

# FCC Test Report

**FCC ID** : I88NBG6817  
**Equipment** : AC2600 MU-MIMO Dual-Band Wireless Gigabit Router  
**Model No.** : NBG6817  
**Brand Name** : ZYXEL  
**Applicant** : ZyXEL Communications Corporation  
**Address** : No.2, Industry East Road IX, Science Park, Hsinchu, Taiwan  
**Standard** : 47 CFR FCC Part 15.407  
**Received Date** : Apr. 13, 2016  
**Tested Date** : May 04 ~ Jul. 19, 2016

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.

Approved & Reviewed by:

  
\_\_\_\_\_  
Gary Chang / Manager



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## Release Record

| Report No. | Version | Description                                                                                                                                                                         | Issued Date   |
|------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| FR641302AN | Rev. 01 | Initial issue                                                                                                                                                                       | May 30, 2016  |
| FR641302AN | Rev. 02 | 1. Location of one antenna cable is changed.<br>2. CPU heat sink changed.<br>3. Capacitor of DC in portion is replaced with a higher capacitance value and specification capacitor. | Jul. 22, 2016 |
| FR641302AN | Rev. 03 | Brand name changed.                                                                                                                                                                 | Jul. 28, 2016 |

## Summary of Test Results

| FCC Rules           | Test Items                  | Measured                                                                                                                                                               | Result |
|---------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 15.207              | Conducted Emissions         | [dBuV]: 0.461MHz<br>37.52 (Margin -9.15dB) - AV                                                                                                                        | Pass   |
| 15.407(b)<br>15.209 | Radiated Emissions          | [dBuV/m at 3m]: 5150.00MHz<br>53.85 (Margin -0.15dB) - 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><i>Non-beamforming mode</i><br>5150-5250MHz: 29.87<br>5725-5850MHz: 29.93<br><i>Beamforming mode</i><br>5150-5250MHz: 27.79<br>5725-5850MHz: 27.52 | 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]      | 4                                  | 6-54 Mbps       |
| 5150-5250              | n (HT20)         | 5180-5240       | 36-48 [4]      | 4                                  | MCS 0-31        |
| 5150-5250              | n (HT40)         | 5190-5230       | 38-46 [2]      | 4                                  | MCS 0-31        |
| 5150-5250              | ac (VHT20)       | 5180-5240       | 36-48 [4]      | 4                                  | MCS 0-9         |
| 5150-5250              | ac (VHT40)       | 5190-5230       | 38-46 [2]      | 4                                  | MCS 0-9         |
| 5150-5250              | ac (VHT80)       | 5210            | 42 [1]         | 4                                  | MCS 0-9         |
| 5150-5250              | ac (VHT80)       | 5210            | 42 [1]         | 2 <sup>Note4</sup>                 | MCS 0-9         |
| 5725-5850              | a                | 5745-5825       | 149-165 [5]    | 4                                  | 6-54 Mbps       |
| 5725-5850              | n (HT20)         | 5745-5825       | 149-165 [5]    | 4                                  | MCS 0-31        |
| 5725-5850              | n (HT40)         | 5755-5795       | 151-159 [2]    | 4                                  | MCS 0-31        |
| 5725-5850              | ac (VHT20)       | 5745-5825       | 149-165 [5]    | 4                                  | MCS 0-9         |
| 5725-5850              | ac (VHT40)       | 5755-5795       | 151-159 [2]    | 4                                  | MCS 0-9         |
| 5725-5850              | ac (VHT80)       | 5775            | 155 [1]        | 4                                  | MCS 0-9         |
| 5725-5850              | ac (VHT80)       | 5775            | 155 [1]        | 2 <sup>Note4</sup>                 | 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.  
Note 3: 802.11n/ac supports beamforming function.  
Note 4: The device supports non-contiguous 80MHz mode (5210MHz + 5775MHz)

### 1.1.2 Antenna Details

| Model              | Type   | Connector | Operating Frequencies (MHz) / Antenna Gain (dBi) |           |           |
|--------------------|--------|-----------|--------------------------------------------------|-----------|-----------|
|                    |        |           | 2400~2483.5                                      | 5150~5250 | 5725~5850 |
| RFA-25-Z3-79-140   | Dipole | UFL       | 2.17                                             | 1.32      | 2.09      |
| RFA-25-Z3-79B-200  | Dipole | UFL       | 1.08                                             | 2.48      | 2.81      |
| RFA-25-Z3-79BL-150 | Dipole | UFL       | 2.25                                             | 1.3       | 2.72      |
| RFA-25-Z3-79W-200  | Dipole | UFL       | 1.16                                             | 0.98      | 1.85      |

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

|                          |                       |
|--------------------------|-----------------------|
| <b>Power Supply Type</b> | 12Vdc from AC adapter |
|--------------------------|-----------------------|

### 1.1.4 Accessories

| Accessories |            |                                                                                                                                                                         |
|-------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No.         | Equipment  | Description                                                                                                                                                             |
| 1           | AC adapter | Brand Name: APD<br>Model Name: WA-36A12FU<br>Power Rating:<br>I/P: 100-240Vac, 50-60Hz, 0.9A Max<br>O/P: 12Vdc, 3A<br>Power Line: 1.5m non-shielded cable with one core |
| 2           | RJ45 Cable | 0.9m shielded cable without core.                                                                                                                                       |

### 1.1.5 Channel List

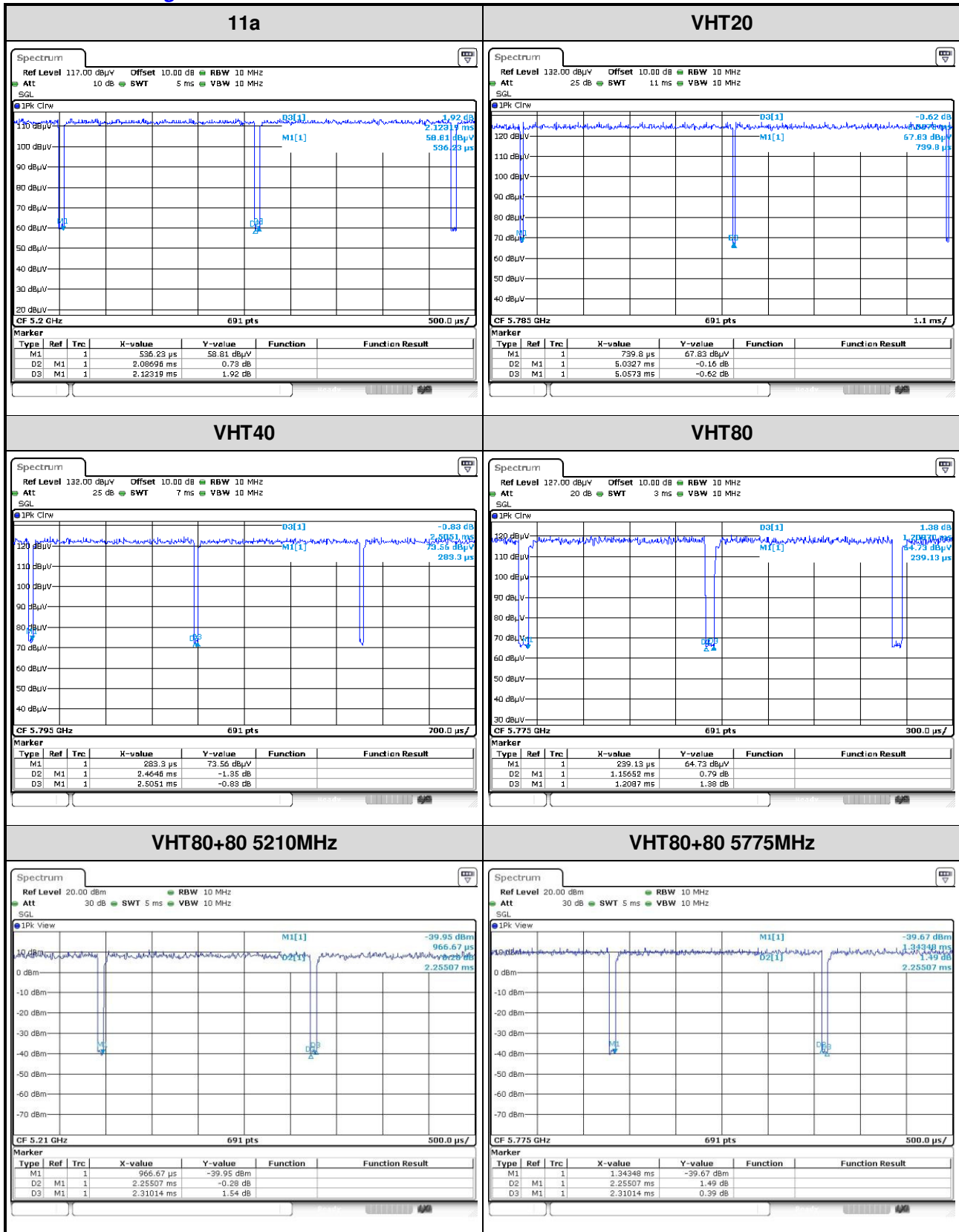
| For Frequency band 5150-5250 MHz |                |              |                |
|----------------------------------|----------------|--------------|----------------|
| 802.11 a / HT20 / VHT20          |                | HT40 / VHT40 |                |
| Channel                          | Frequency(MHz) | 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           | ---          | ---            |

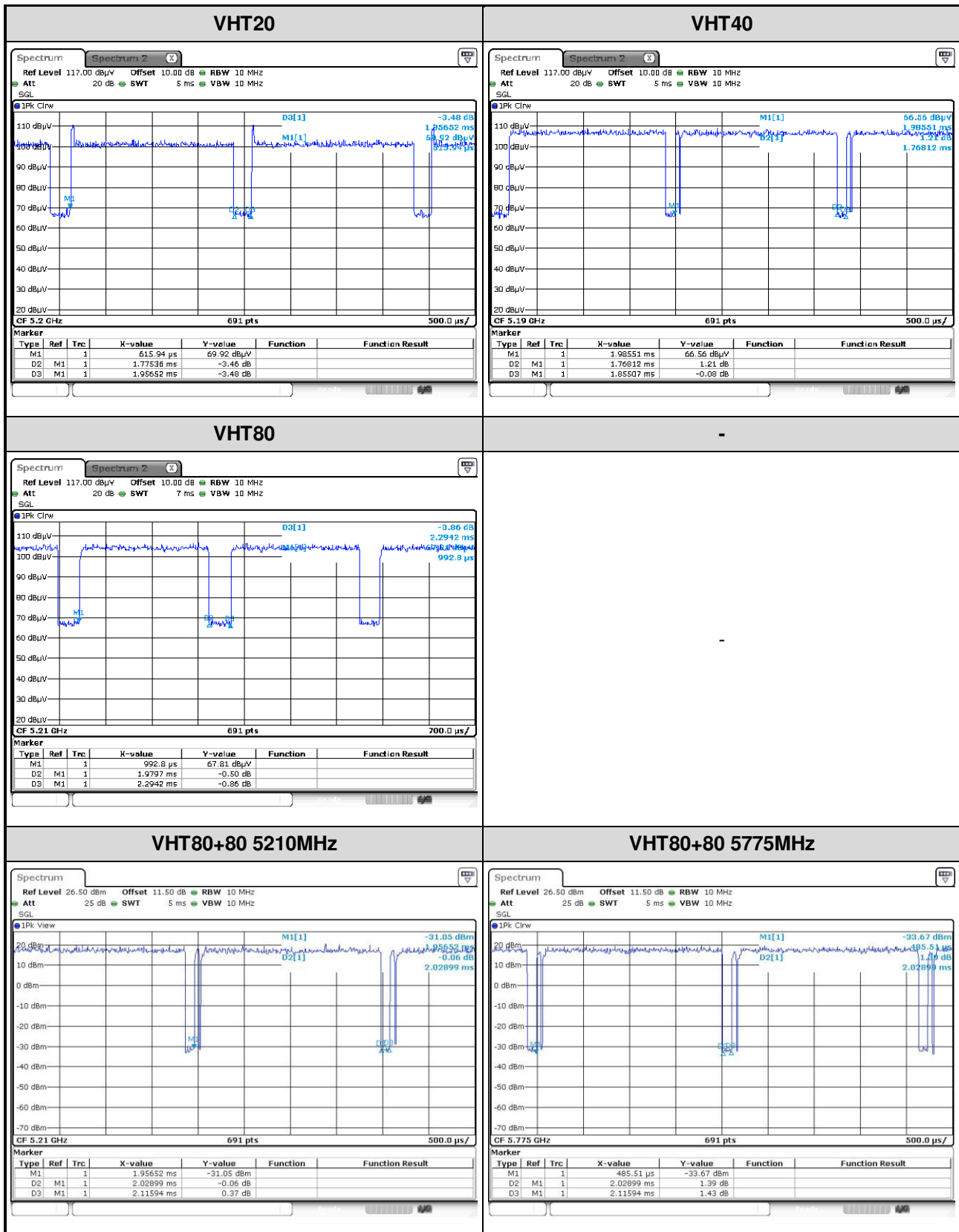
### 1.1.6 Test Tool and Duty Cycle

| Test Tool                  | Non-beamforming: QCARCT, V3.0.144.0<br>Beamforming: LanTest |                 |                  |                |                  |
|----------------------------|-------------------------------------------------------------|-----------------|------------------|----------------|------------------|
| Duty Cycle and Duty Factor | Mode                                                        | Non-beamforming |                  | Beamforming    |                  |
|                            |                                                             | Duty cycle (%)  | Duty factor (dB) | Duty cycle (%) | Duty factor (dB) |
|                            | 11a                                                         | 98.29%          | 0.07             | ---            | ---              |
|                            | VHT20                                                       | 99.51%          | 0.02             | 90.74%         | 0.42             |
|                            | VHT40                                                       | 98.38%          | 0.07             | 95.31%         | 0.21             |
|                            | VHT80                                                       | 95.68%          | 0.19             | 86.29%         | 0.64             |
|                            | VHT80+80                                                    | 97.62%          | 0.10             | 95.89%         | 0.18             |

## Non-beamforming mode



## Beamforming mode



### 1.1.7 Power Setting

| For Frequency band 5150-5250 MHz |                      |                 |             |
|----------------------------------|----------------------|-----------------|-------------|
| Modulation Mode                  | Test Frequency (MHz) | Power Set       |             |
|                                  |                      | Non-Beamforming | Beamforming |
| 11a                              | 5180                 | 23              | ---         |
| 11a                              | 5200                 | 24              | ---         |
| 11a                              | 5240                 | 24              | ---         |
| HT20                             | 5180                 | 22              | 29          |
| HT20                             | 5200                 | 24              | 29          |
| HT20                             | 5240                 | 24              | 29          |
| HT40                             | 5190                 | 18.5            | 24          |
| HT40                             | 5230                 | 24              | 28          |
| VHT20                            | 5180                 | 22              | 29          |
| VHT20                            | 5200                 | 24              | 29          |
| VHT20                            | 5240                 | 24              | 29          |
| VHT40                            | 5190                 | 18.5            | 24          |
| VHT40                            | 5230                 | 24              | 28          |
| VHT80                            | 5210                 | 16              | 23          |
| VHT80+80                         | 5210                 | 19.5            | 26          |

| For Frequency band 5725~5850 MHz |                      |                 |             |
|----------------------------------|----------------------|-----------------|-------------|
| Modulation Mode                  | Test Frequency (MHz) | Power Set       |             |
|                                  |                      | Non-Beamforming | Beamforming |
| 11a                              | 5745                 | 23              | ---         |
| 11a                              | 5785                 | 23              | ---         |
| 11a                              | 5825                 | 23              | ---         |
| HT20                             | 5745                 | 23              | 27          |
| HT20                             | 5785                 | 23              | 27          |
| HT20                             | 5825                 | 23              | 27          |
| HT40                             | 5755                 | 22.5            | 26          |
| HT40                             | 5795                 | 22.5            | 26          |
| VHT20                            | 5745                 | 23              | 27          |
| VHT20                            | 5785                 | 23              | 27          |
| VHT20                            | 5825                 | 23              | 27          |
| VHT40                            | 5755                 | 22.5            | 26          |
| VHT40                            | 5795                 | 22.5            | 26          |
| VHT80                            | 5775                 | 22              | 26          |
| VHT80+80                         | 5775                 | 19.5            | 26          |

## 1.2 Local Support Equipment List

### *Non-beamforming mode*

| Support Equipment List |               |          |                |         |                              |
|------------------------|---------------|----------|----------------|---------|------------------------------|
| No.                    | Equipment     | Brand    | Model          | S/N     | Signal cable / Length (m)    |
| 1                      | Notebook      | DELL     | Latitude E5420 | B6FV9T1 | RJ45, 8m shielded.           |
| 2                      | Notebook      | DELL     | Latitude E6430 | 74GB4X1 | RJ45, 10m non-shielded.      |
| 3                      | USB 2.0 flash | Kingston | DTSE9          | FXVJ0   | ---                          |
| 4                      | USB 3.0 flash | pqi      | U273V 16G      | 51882   | ---                          |
| 5                      | Load          | ICC      | ---            | ---     | RJ45, 1.5m (x3) non-shielded |

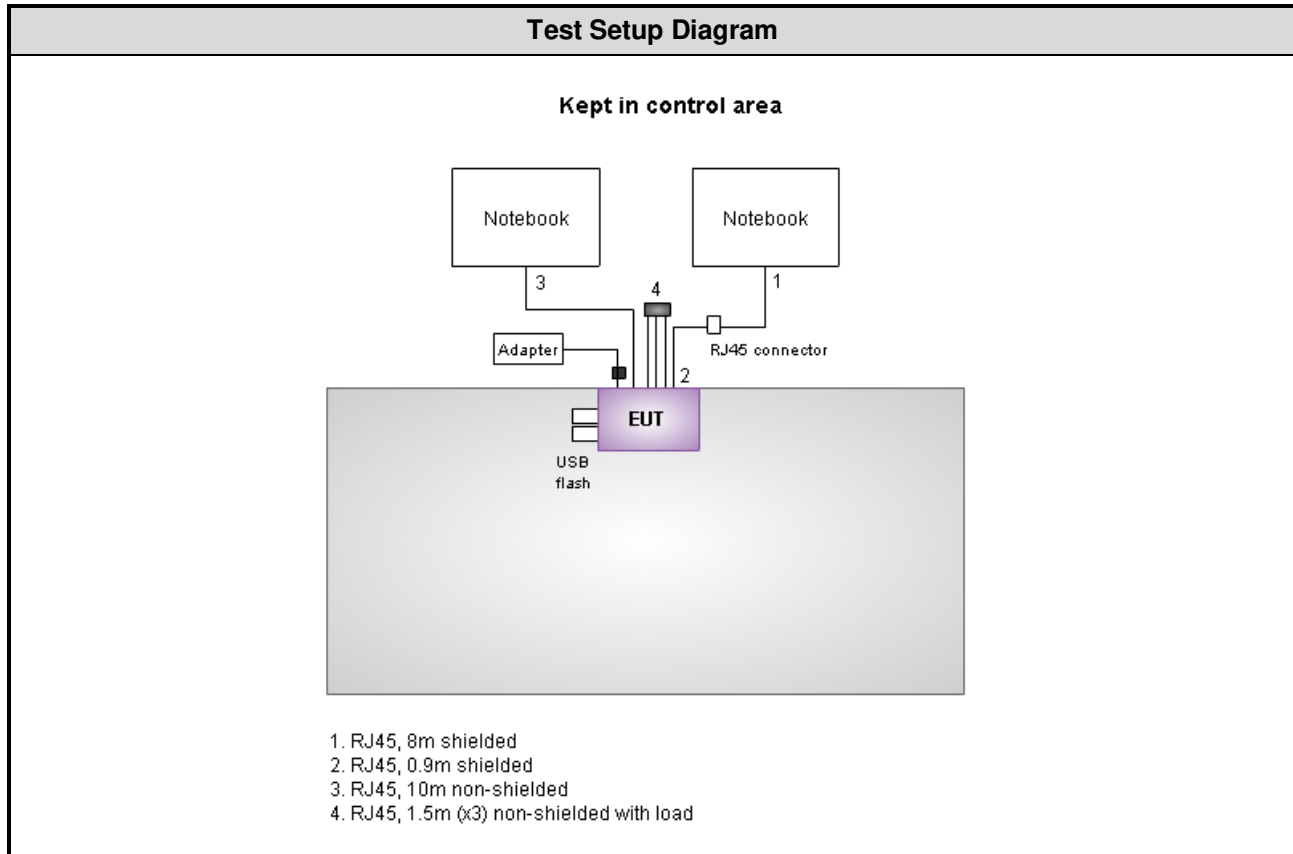
### *Beamforming mode*

| Support Equipment List |               |          |                |         |                              |
|------------------------|---------------|----------|----------------|---------|------------------------------|
| No.                    | Equipment     | Brand    | Model          | S/N     | Signal cable / Length (m)    |
| 1                      | Notebook      | DELL     | Latitude E5420 | B6FV9T1 | RJ45, 8m shielded.           |
| 2                      | Notebook      | DELL     | Latitude E6430 | 74GB4X1 | RJ45, 10m non-shielded.      |
| 3                      | USB 2.0 flash | Kingston | DTSE9          | FXVJ0   | ---                          |
| 4                      | USB 3.0 flash | pqi      | U273V 16G      | 51882   | ---                          |
| 5                      | Load          | ICC      | ---            | ---     | RJ45, 1.5m (x3) non-shielded |
| 6                      | Notebook      | DELL     | Latitude E6430 | G3GB4X1 | RJ45, 1m non-shielded.       |
| 7                      | Client        | ZyXEL    | NBG6817        | ---     | ---                          |

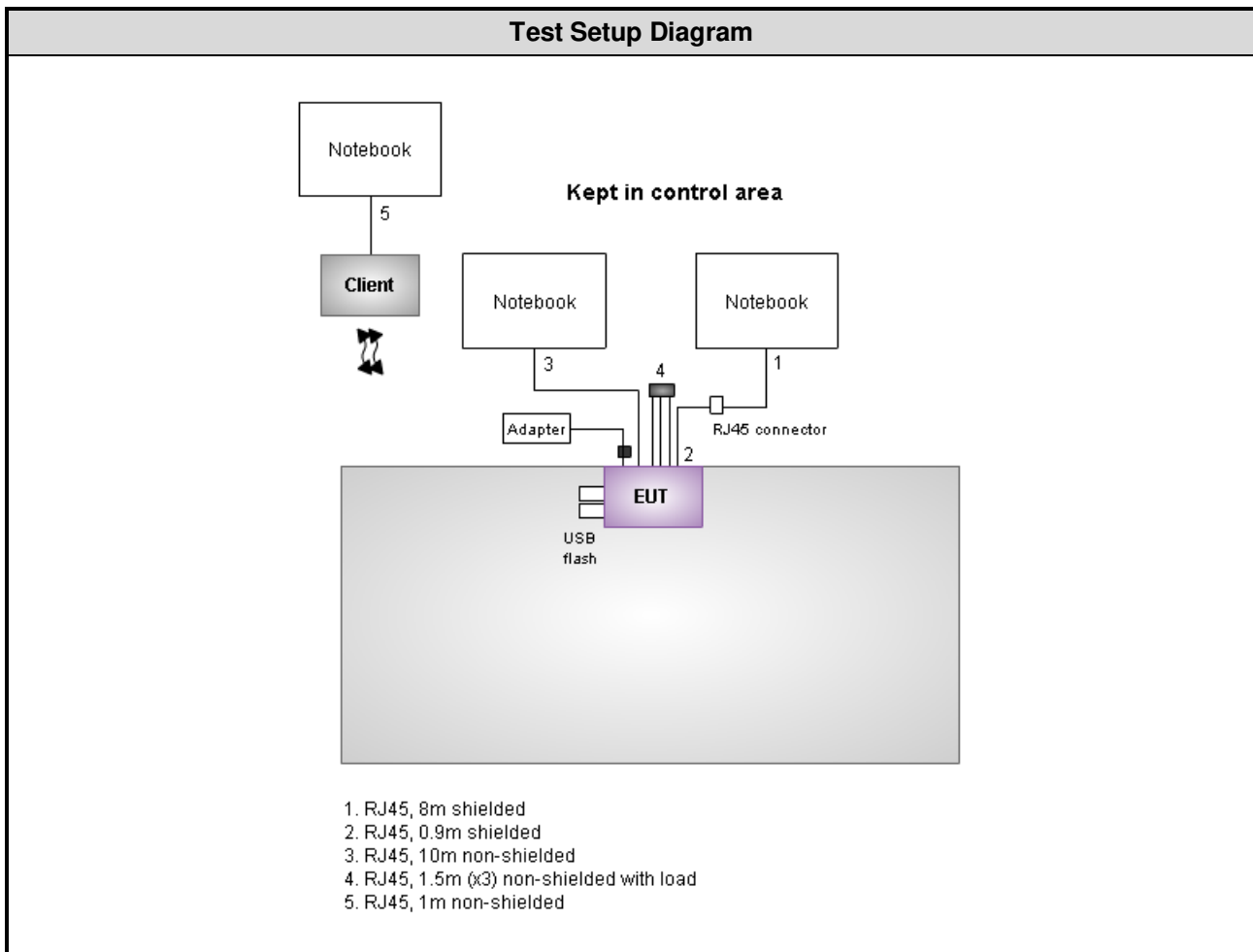
Note: No. 7 is provided by applicant.

## 1.3 Test Setup Chart

### *Non-beamforming mode*



### Beamforming mode



## 1.4 The Equipment List

|                                                                     |                               |                      |                   |                         |                          |
|---------------------------------------------------------------------|-------------------------------|----------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | Conducted Emission            |                      |                   |                         |                          |
| <b>Test Site</b>                                                    | Conduction room 1 / (CO01-WS) |                      |                   |                         |                          |
| <b>Instrument</b>                                                   | <b>Manufacturer</b>           | <b>Model No.</b>     | <b>Serial No.</b> | <b>Calibration Date</b> | <b>Calibration Until</b> |
| Receiver                                                            | R&S                           | ESR3                 | 101657            | Jan. 12, 2016           | Jan. 11, 2017            |
| LISN                                                                | R&S                           | ENV216               | 101579            | Jan. 11, 2016           | Jan. 10, 2017            |
| RF Cable-CON                                                        | EMC                           | EMCCFD300-BM-BM-6000 | 50821             | Dec. 21, 2015           | Dec. 20, 2016            |
| Measurement Software                                                | AUDIX                         | e3                   | 6.120210k         | NA                      | NA                       |
| Note: Calibration Interval of instruments listed above is one year. |                               |                      |                   |                         |                          |

|                                                                     |                            |                  |                   |                         |                          |
|---------------------------------------------------------------------|----------------------------|------------------|-------------------|-------------------------|--------------------------|
| <b>Test Item</b>                                                    | Radiated Emission          |                  |                   |                         |                          |
| <b>Test Site</b>                                                    | 966 chamber1 / (03CH01-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            | 101498            | Dec. 13, 2015           | Dec. 12, 2016            |
| Receiver                                                            | R&S                        | ESR3             | 101658            | Nov. 04, 2015           | Nov. 03, 2016            |
| Bilog Antenna                                                       | SCHWARZBECK                | VULB9168         | VULB9168-522      | Aug. 20, 2015           | Aug. 19, 2016            |
| Horn Antenna 1G-18G                                                 | SCHWARZBECK                | BBHA 9120 D      | BBHA 9120 D 1096  | Dec. 16, 2015           | Dec. 15, 2016            |
| Horn Antenna 18G-40G                                                | SCHWARZBECK                | BBHA 9170        | BBHA 9170517      | Nov. 04, 2015           | Nov. 03, 2016            |
| Preamplifier                                                        | Burgeon                    | BPA-530          | SN:100219         | Sep. 10, 2015           | Sep. 09, 2016            |
| Preamplifier                                                        | Agilent                    | 83017A           | MY39501308        | Oct. 02, 2015           | Oct. 01, 2016            |
| Preamplifier                                                        | EMC                        | EMC184045B       | 980192            | Sep. 01, 2015           | Aug. 31, 2016            |
| RF Cable                                                            | HUBER+SUHNER               | SUCOFLEX104      | MY16014/4         | Dec. 10, 2015           | Dec. 09, 2016            |
| RF Cable                                                            | HUBER+SUHNER               | SUCOFLEX104      | MY16019/4         | Dec. 10, 2015           | Dec. 09, 2016            |
| RF Cable                                                            | HUBER+SUHNER               | SUCOFLEX104      | MY16139/4         | Dec. 10, 2015           | Dec. 09, 2016            |
| LF cable 3M                                                         | Woken                      | CFD400NL-LW      | CFD400NL-001      | Dec. 10, 2015           | Dec. 09, 2016            |
| LF cable 10M                                                        | Woken                      | CFD400NL-LW      | CFD400NL-002      | Dec. 10, 2015           | Dec. 09, 2016            |
| Loop Antenna                                                        | R&S                        | HFH2-Z2          | 100330            | Nov. 16, 2015           | Nov. 15, 2016            |
| 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            | Feb. 17, 2016           | Feb. 16, 2017            |
| TEMP&HUMIDITY CHAMBER                                               | GIANT FORCE         | GCT-225-40-SP-SD | MAF1212-002       | Nov. 27, 2015           | Nov. 26, 2016            |
| Power Meter                                                         | Anritsu             | ML2495A          | 1241002           | Sep. 21, 2015           | Sep. 20, 2016            |
| Power Sensor                                                        | Anritsu             | MA2411B          | 1207366           | Sep. 21, 2015           | Sep. 20, 2016            |
| Signal Generator                                                    | R&S                 | SMB100A          | 175727            | Oct. 05, 2015           | Oct. 04, 2016            |
| AC POWER SOURCE                                                     | APC                 | AFC-500W         | F312060012        | Oct. 26, 2015           | Oct. 25, 2016            |
| 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 v01r02

FCC KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01

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                      | $\pm 34.134$ Hz |
| Conducted power                | $\pm 0.808$ dB  |
| Frequency error                | $\pm 34.134$ Hz |
| Power density                  | $\pm 0.463$ dB  |
| Conducted emission             | $\pm 2.670$ dB  |
| AC conducted emission          | $\pm 2.90$ dB   |
| Radiated emission $\leq 1$ GHz | $\pm 3.66$ dB   |
| Radiated emission $> 1$ GHz    | $\pm 5.63$ dB   |
| Time                           | $\pm 0.1\%$     |
| Temperature                    | $\pm 0.6$ °C    |

## 2 Test Configuration

### 2.1 Testing Condition

| Test Item          | Test Site | Ambient Condition | Tested By                                  |
|--------------------|-----------|-------------------|--------------------------------------------|
| AC Conduction      | CO01-WS   | 22°C / 63%        | Howard Huang                               |
| Radiated Emissions | 03CH01-WS | 22-24°C / 61-66%  | Vincent Yeh<br>Anderson Hung<br>Felix Sung |
| RF Conducted       | TH01-WS   | 21°C / 64%        | Alex Huang                                 |

- FCC site registration No.: 181692
- IC site registration No.: 10807A-1

## 2.2 The Worst Test Modes and Channel Details

### Non-beamforming mode

| For Frequency band 5150-5250 MHz |                 |                      |                        |                    |
|----------------------------------|-----------------|----------------------|------------------------|--------------------|
| Test item                        | Modulation Mode | Test Frequency (MHz) | Data Rate (Mbps) / MCS | Test Configuration |
| Conducted Emissions              | VHT40           | 5230                 | MCS 0                  | ---                |
| Radiated Emissions ≤1GHz         | VHT40           | 5230                 | MCS 0                  | ---                |
| RF Output Power                  | 11a             | 5180 / 5200 / 5240   | 6 Mbps                 | ---                |
|                                  | HT20            | 5180 / 5200 / 5240   | MCS 0                  |                    |
|                                  | HT40            | 5190 / 5230          | MCS 0                  |                    |
|                                  | VHT20           | 5180 / 5200 / 5240   | MCS 0                  |                    |
|                                  | VHT40           | 5190 / 5230          | MCS 0                  |                    |
|                                  | VHT80           | 5210                 | MCS 0                  |                    |
|                                  | VHT80+80        | 5210                 | MCS 0                  |                    |
| Radiated Emissions >1GHz         | 11a             | 5180 / 5200 / 5240   | 6 Mbps                 | ---                |
| Emission Bandwidth               | VHT20           | 5180 / 5200 / 5240   | MCS 0                  |                    |
| Peak Power Spectral Density      | VHT40           | 5190 / 5230          | MCS 0                  |                    |
|                                  | VHT80           | 5210                 | MCS 0                  |                    |
|                                  | VHT80+80        | 5210                 | MCS 0                  |                    |
| Frequency Stability              | Un-modulation   | 5200                 | ---                    | ---                |

Note: The device supports non-contiguous 80MHz mode (5210MHz + 5775MHz)

| For Frequency band 5725-5850 MHz |                 |                      |                        |                    |
|----------------------------------|-----------------|----------------------|------------------------|--------------------|
| Test item                        | Modulation Mode | Test Frequency (MHz) | Data Rate (Mbps) / MCS | Test Configuration |
| Conducted Emissions              | 11a             | 5825                 | 6 Mbps                 | ---                |
| Radiated Emissions ≤1GHz         | 11a             | 5825                 | 6 Mbps                 | ---                |
| RF Output Power                  | 11a             | 5745 / 5785 / 5825   | 6 Mbps                 | ---                |
|                                  | HT20            | 5745 / 5785 / 5825   | MCS 0                  |                    |
|                                  | HT40            | 5755 / 5795          | MCS 0                  |                    |
|                                  | VHT20           | 5745 / 5785 / 5825   | MCS 0                  |                    |
|                                  | VHT40           | 5755 / 5795          | MCS 0                  |                    |
|                                  | VHT80           | 5775                 | MCS 0                  |                    |
|                                  | VHT80+80        | 5775                 | MCS 0                  |                    |
| Radiated Emissions >1GHz         | 11a             | 5745 / 5785 / 5825   | 6 Mbps                 | ---                |
| Emission Bandwidth               | VHT20           | 5745 / 5785 / 5825   | MCS 0                  |                    |
| 6dB bandwidth                    | VHT40           | 5755 / 5795          | MCS 0                  |                    |
| Peak Power Spectral Density      | VHT80           | 5775                 | MCS 0                  |                    |
|                                  | VHT80+80        | 5775                 | MCS 0                  |                    |
| Frequency Stability              | Un-modulation   | 5785                 | ---                    | ---                |

Note: The device supports non-contiguous 80MHz mode (5210MHz + 5775MHz)

### Beamforming mode

| For Frequency band 5150-5250 MHz |                 |                      |                        |                    |
|----------------------------------|-----------------|----------------------|------------------------|--------------------|
| Test item                        | Modulation Mode | Test Frequency (MHz) | Data Rate (Mbps) / MCS | Test Configuration |
| Conducted Emissions              | VHT40           | 5230                 | MCS 0                  | ---                |
| Radiated Emissions ≤1GHz         | VHT40           | 5230                 | MCS 0                  | ---                |
| RF Output Power                  | HT20            | 5180 / 5200 / 5240   | MCS 0                  | ---                |
|                                  | HT40            | 5190 / 5230          | MCS 0                  |                    |
|                                  | VHT20           | 5180 / 5200 / 5240   | MCS 0                  |                    |
|                                  | VHT40           | 5190 / 5230          | MCS 0                  |                    |
|                                  | VHT80           | 5210                 | MCS 0                  |                    |
|                                  | VHT80+80        | 5210                 | MCS 0                  |                    |
| Radiated Emissions >1GHz         | VHT20           | 5180 / 5200 / 5240   | MCS 0                  | ---                |
| Emission Bandwidth               | VHT40           | 5190 / 5230          | MCS 0                  |                    |
| Peak Power Spectral Density      | VHT80           | 5210                 | MCS 0                  |                    |
|                                  | VHT80+80        | 5210                 | MCS 0                  |                    |

Note: The device supports non-contiguous 80MHz mode (5210MHz + 5775MHz)

| For Frequency band 5725-5850 MHz |                 |                      |                        |                    |
|----------------------------------|-----------------|----------------------|------------------------|--------------------|
| Test item                        | Modulation Mode | Test Frequency (MHz) | Data Rate (Mbps) / MCS | Test Configuration |
| Conducted Emissions              | VHT20           | 5785                 | MCS 0                  | ---                |
| Radiated Emissions ≤1GHz         | VHT20           | 5785                 | MCS 0                  | ---                |
| RF Output Power                  | HT20            | 5745 / 5785 / 5825   | MCS 0                  | ---                |
|                                  | HT40            | 5755 / 5795          | MCS 0                  |                    |
|                                  | VHT20           | 5745 / 5785 / 5825   | MCS 0                  |                    |
|                                  | VHT40           | 5755 / 5795          | MCS 0                  |                    |
|                                  | VHT80           | 5775                 | MCS 0                  |                    |
|                                  | VHT80+80        | 5775                 | MCS 0                  |                    |
| Radiated Emissions >1GHz         | VHT20           | 5745 / 5785 / 5825   | MCS 0                  | ---                |
| Emission Bandwidth               | VHT40           | 5755 / 5795          | MCS 0                  |                    |
| 6dB bandwidth                    | VHT80           | 5775                 | MCS 0                  |                    |
| Peak Power Spectral Density      | VHT80+80        | 5775                 | MCS 0                  |                    |

Note: The device supports non-contiguous 80MHz mode (5210MHz + 5775MHz)

### 3 Transmitter Test Results

#### 3.1 Conducted Emissions

##### 3.1.1 Limit of Conducted Emissions

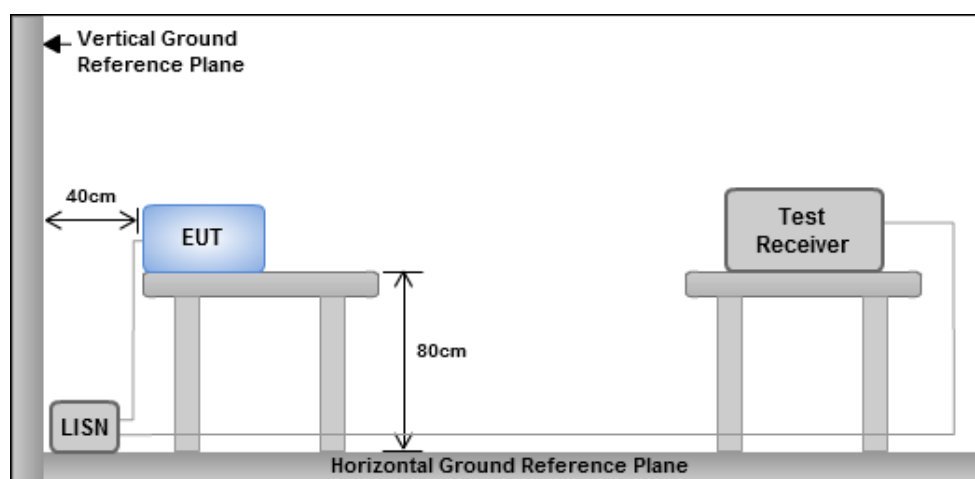
| Conducted Emissions Limit |            |           |
|---------------------------|------------|-----------|
| Frequency Emission (MHz)  | Quasi-Peak | Average   |
| 0.15-0.5                  | 66 - 56 *  | 56 - 46 * |
| 0.5-5                     | 56         | 46        |
| 5-30                   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

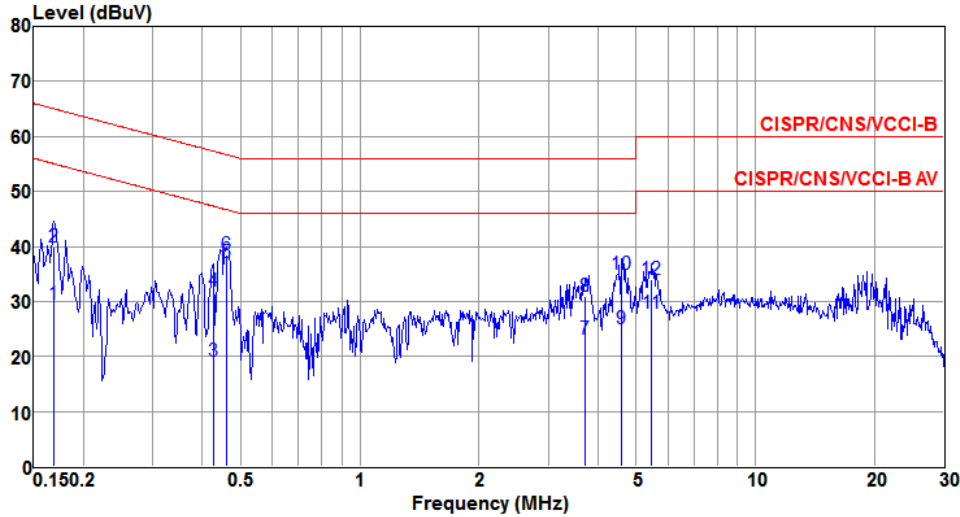


- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

### 3.1.4 Test Result of Conducted Emissions

#### Non-beamforming mode

|             |       |                  |      |
|-------------|-------|------------------|------|
| Modulation  | VHT40 | Test Freq. (MHz) | 5230 |
| Power Phase | Line  |                  |      |

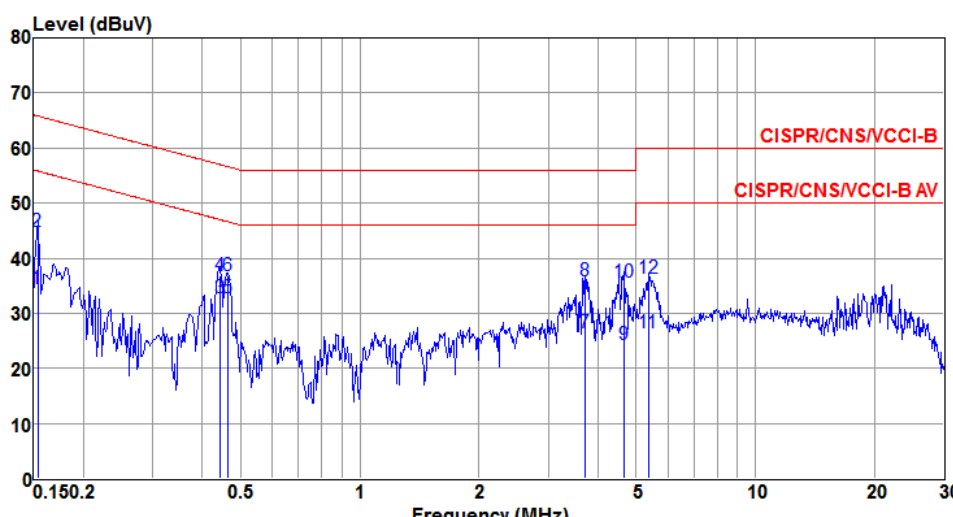
  


|    | Freq<br>MHz | Level<br>dBUV | Limit<br>Line<br>dBUV | Over<br>Limit<br>dB | Read<br>Level<br>dBUV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark  |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1  | 0.169       | 29.50         | 55.03                 | -25.53              | 19.85                 | 9.63                 | 0.02                | Average |
| 2  | 0.169       | 39.90         | 65.03                 | -25.13              | 30.25                 | 9.63                 | 0.02                | QP      |
| 3  | 0.426       | 19.07         | 47.33                 | -28.26              | 9.41                  | 9.63                 | 0.03                | Average |
| 4  | 0.426       | 31.81         | 57.33                 | -25.52              | 22.15                 | 9.63                 | 0.03                | QP      |
| 5@ | 0.461       | 37.12         | 46.67                 | -9.55               | 27.46                 | 9.63                 | 0.03                | Average |
| 6  | 0.461       | 38.49         | 56.67                 | -18.18              | 28.83                 | 9.63                 | 0.03                | QP      |
| 7  | 3.700       | 23.18         | 46.00                 | -22.82              | 13.42                 | 9.64                 | 0.12                | Average |
| 8  | 3.700       | 30.85         | 56.00                 | -25.15              | 21.09                 | 9.64                 | 0.12                | QP      |
| 9  | 4.574       | 24.99         | 46.00                 | -21.01              | 15.21                 | 9.65                 | 0.13                | Average |
| 10 | 4.574       | 34.93         | 56.00                 | -21.07              | 25.15                 | 9.65                 | 0.13                | QP      |
| 11 | 5.476       | 27.88         | 50.00                 | -22.12              | 18.10                 | 9.65                 | 0.13                | Average |
| 12 | 5.476       | 33.97         | 60.00                 | -26.03              | 24.19                 | 9.65                 | 0.13                | QP      |

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

|             |         |                  |      |
|-------------|---------|------------------|------|
| Modulation  | VHT40   | Test Freq. (MHz) | 5230 |
| Power Phase | Neutral |                  |      |

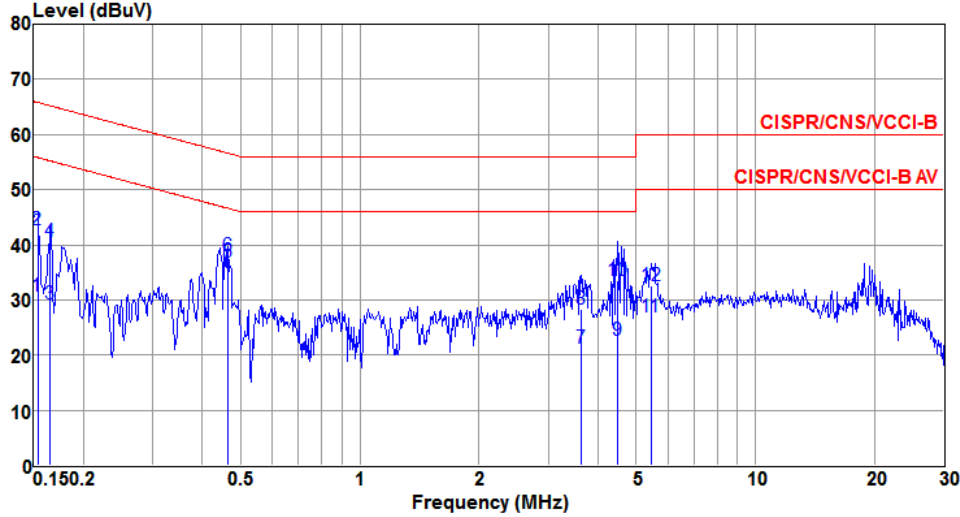


|    | Freq  | Level | Limit | Over   | Read  | LISN   | cable | Remark  |
|----|-------|-------|-------|--------|-------|--------|-------|---------|
|    | MHz   | dBuV  | Line  | Limit  | Level | factor | loss  |         |
|    |       |       | dBuV  | dB     | dBuV  | dB     | dB    |         |
| 1  | 0.153 | 34.46 | 55.82 | -21.36 | 24.82 | 9.62   | 0.02  | Average |
| 2  | 0.153 | 44.88 | 65.82 | -20.94 | 35.24 | 9.62   | 0.02  | QP      |
| 3  | 0.442 | 32.77 | 47.02 | -14.25 | 23.11 | 9.63   | 0.03  | Average |
| 4  | 0.442 | 36.83 | 57.02 | -20.19 | 27.17 | 9.63   | 0.03  | QP      |
| 5  | 0.464 | 32.73 | 46.63 | -13.90 | 23.07 | 9.63   | 0.03  | Average |
| 6  | 0.464 | 36.73 | 56.63 | -19.90 | 27.07 | 9.63   | 0.03  | QP      |
| 7  | 3.700 | 26.55 | 46.00 | -19.45 | 16.80 | 9.63   | 0.12  | Average |
| 8  | 3.700 | 36.00 | 56.00 | -20.00 | 26.25 | 9.63   | 0.12  | QP      |
| 9  | 4.672 | 24.31 | 46.00 | -21.69 | 14.54 | 9.64   | 0.13  | Average |
| 10 | 4.672 | 35.59 | 56.00 | -20.41 | 25.82 | 9.64   | 0.13  | QP      |
| 11 | 5.362 | 26.37 | 50.00 | -23.63 | 16.59 | 9.65   | 0.13  | Average |
| 12 | 5.362 | 36.42 | 60.00 | -23.58 | 26.64 | 9.65   | 0.13  | 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) | 5825 |
| Power Phase | Line |                  |      |

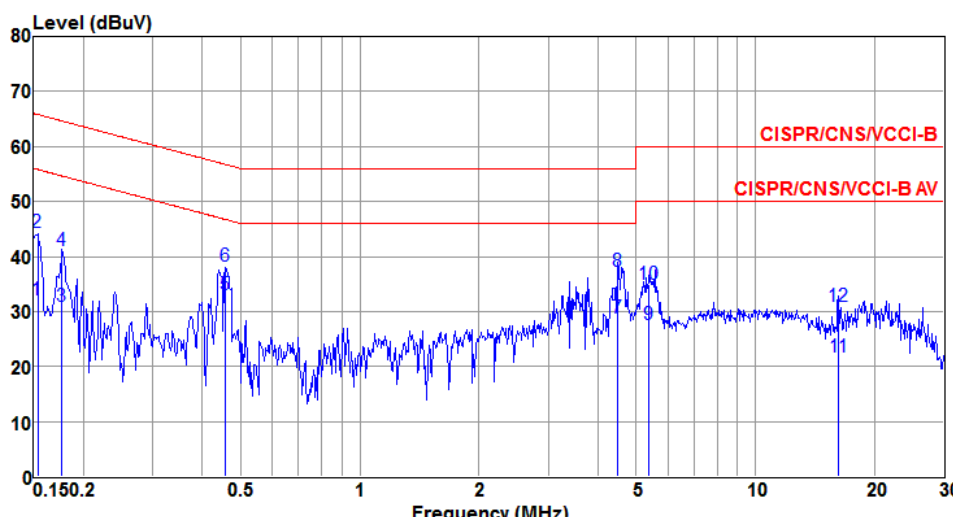


|    | Freq  | Level | Limit | Over   | Read  | LISN   | cable | Remark  |
|----|-------|-------|-------|--------|-------|--------|-------|---------|
|    | MHz   | dBuV  | Line  | Limit  | Level | factor | loss  |         |
|    |       |       | dBuV  | dB     | dBuV  | dB     | dB    |         |
| 1  | 0.153 | 30.71 | 55.82 | -25.11 | 21.06 | 9.63   | 0.02  | Average |
| 2  | 0.153 | 42.69 | 65.82 | -23.13 | 33.04 | 9.63   | 0.02  | QP      |
| 3  | 0.165 | 29.22 | 55.21 | -25.99 | 19.57 | 9.63   | 0.02  | Average |
| 4  | 0.165 | 40.69 | 65.21 | -24.52 | 31.04 | 9.63   | 0.02  | QP      |
| 5@ | 0.464 | 36.91 | 46.63 | -9.72  | 27.25 | 9.63   | 0.03  | Average |
| 6  | 0.464 | 38.08 | 56.63 | -18.55 | 28.42 | 9.63   | 0.03  | QP      |
| 7  | 3.623 | 21.13 | 46.00 | -24.87 | 11.38 | 9.64   | 0.11  | Average |
| 8  | 3.623 | 28.41 | 56.00 | -27.59 | 18.66 | 9.64   | 0.11  | QP      |
| 9  | 4.478 | 22.59 | 46.00 | -23.41 | 12.83 | 9.64   | 0.12  | Average |
| 10 | 4.478 | 33.41 | 56.00 | -22.59 | 23.65 | 9.64   | 0.12  | QP      |
| 11 | 5.447 | 26.92 | 50.00 | -23.08 | 17.14 | 9.65   | 0.13  | Average |
| 12 | 5.447 | 32.48 | 60.00 | -27.52 | 22.70 | 9.65   | 0.13  | 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) | 5825 |
| Power Phase | Neutral |                  |      |

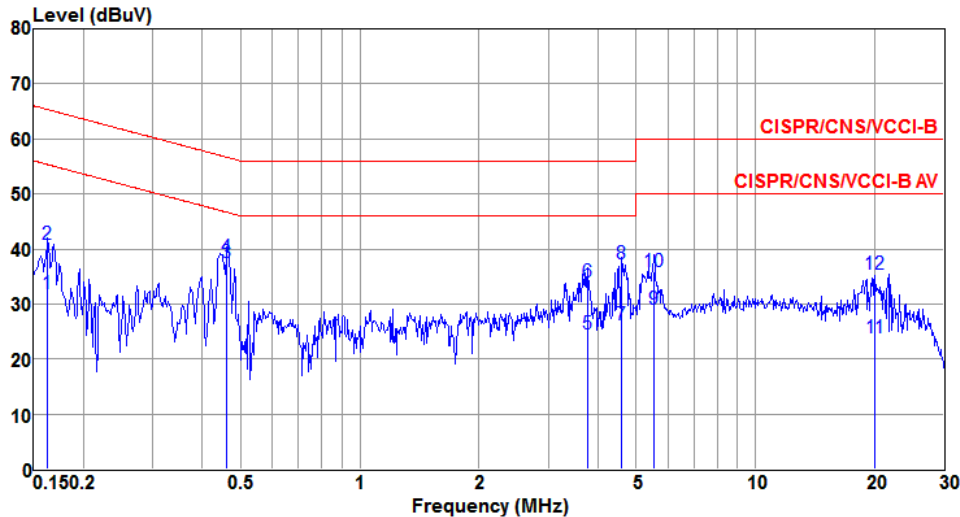


|    | Freq   | Level | Limit | Over   | Read  | LISN   | cable |         |
|----|--------|-------|-------|--------|-------|--------|-------|---------|
|    | MHz    | dBuV  | Line  | Limit  | Level | factor | loss  | Remark  |
|    |        |       | dBuV  | dB     | dBuV  | dB     | dB    |         |
| 1  | 0.153  | 32.10 | 55.82 | -23.72 | 22.46 | 9.62   | 0.02  | Average |
| 2  | 0.153  | 44.44 | 65.82 | -21.38 | 34.80 | 9.62   | 0.02  | QP      |
| 3  | 0.177  | 31.00 | 54.64 | -23.64 | 21.36 | 9.62   | 0.02  | Average |
| 4  | 0.177  | 41.15 | 64.64 | -23.49 | 31.51 | 9.62   | 0.02  | QP      |
| 5@ | 0.456  | 33.11 | 46.76 | -13.65 | 23.45 | 9.63   | 0.03  | Average |
| 6  | 0.456  | 38.12 | 56.76 | -18.64 | 28.46 | 9.63   | 0.03  | QP      |
| 7  | 4.478  | 28.88 | 46.00 | -17.12 | 19.12 | 9.64   | 0.12  | Average |
| 8  | 4.478  | 37.22 | 56.00 | -18.78 | 27.46 | 9.64   | 0.12  | QP      |
| 9  | 5.390  | 27.58 | 50.00 | -22.42 | 17.80 | 9.65   | 0.13  | Average |
| 10 | 5.390  | 34.85 | 60.00 | -25.15 | 25.07 | 9.65   | 0.13  | QP      |
| 11 | 16.226 | 21.63 | 50.00 | -28.37 | 11.67 | 9.76   | 0.20  | Average |
| 12 | 16.226 | 30.84 | 60.00 | -29.16 | 20.88 | 9.76   | 0.20  | QP      |

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

### Beamforming mode

|             |       |                  |      |
|-------------|-------|------------------|------|
| Modulation  | VHT40 | Test Freq. (MHz) | 5230 |
| Power Phase | Line  |                  |      |

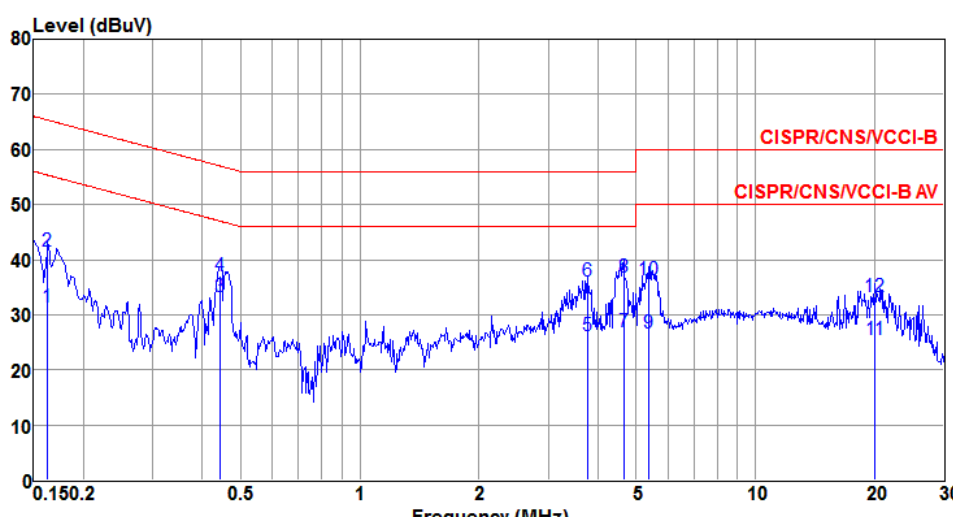
  


|    | Freq<br>MHz | Level<br>dBuV | Limit<br>Line<br>dBuV | Over<br>Limit<br>dB | Read<br>Level<br>dBuV | LISN<br>factor<br>dB | cable<br>loss<br>dB | Remark  |
|----|-------------|---------------|-----------------------|---------------------|-----------------------|----------------------|---------------------|---------|
| 1  | 0.162       | 31.82         | 55.34                 | -23.52              | 22.17                 | 9.63                 | 0.02                | Average |
| 2  | 0.162       | 40.85         | 65.34                 | -24.49              | 31.20                 | 9.63                 | 0.02                | QP      |
| 3  | 0.461       | 37.52         | 46.67                 | -9.15               | 27.86                 | 9.63                 | 0.03                | Average |
| 4  | 0.461       | 38.57         | 56.67                 | -18.10              | 28.91                 | 9.63                 | 0.03                | QP      |
| 5  | 3.759       | 24.47         | 46.00                 | -21.53              | 14.71                 | 9.64                 | 0.12                | Average |
| 6  | 3.759       | 33.96         | 56.00                 | -22.04              | 24.20                 | 9.64                 | 0.12                | QP      |
| 7  | 4.598       | 26.15         | 46.00                 | -19.85              | 16.37                 | 9.65                 | 0.13                | Average |
| 8  | 4.598       | 37.41         | 56.00                 | -18.59              | 27.63                 | 9.65                 | 0.13                | QP      |
| 9  | 5.535       | 29.11         | 50.00                 | -20.89              | 19.33                 | 9.65                 | 0.13                | Average |
| 10 | 5.535       | 35.96         | 60.00                 | -24.04              | 26.18                 | 9.65                 | 0.13                | QP      |
| 11 | 20.056      | 23.75         | 50.00                 | -26.25              | 13.89                 | 9.69                 | 0.17                | Average |
| 12 | 20.056      | 35.34         | 60.00                 | -24.66              | 25.48                 | 9.69                 | 0.17                | QP      |

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

|             |         |                  |      |
|-------------|---------|------------------|------|
| Modulation  | VHT40   | Test Freq. (MHz) | 5230 |
| Power Phase | Neutral |                  |      |

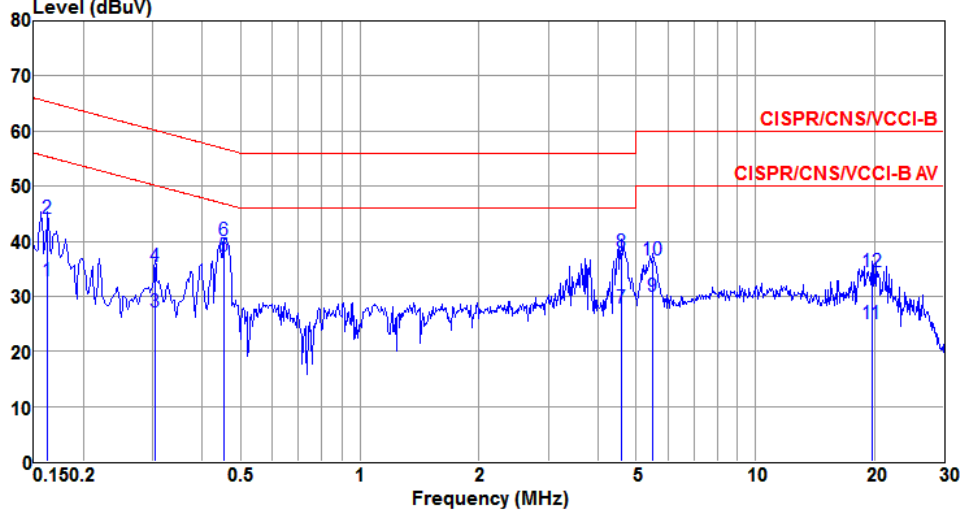


|    | Freq   | Level | Limit | Over   | Read  | LISN   | cable | Remark  |
|----|--------|-------|-------|--------|-------|--------|-------|---------|
|    | MHz    | dBuV  | Line  | Limit  | Level | factor | loss  |         |
|    |        |       | dBuV  | dB     | dBuV  | dB     | dB    |         |
| 1  | 0.162  | 31.38 | 55.34 | -23.96 | 21.74 | 9.62   | 0.02  | Average |
| 2  | 0.162  | 41.44 | 65.34 | -23.90 | 31.80 | 9.62   | 0.02  | QP      |
| 3@ | 0.444  | 33.23 | 46.98 | -13.75 | 23.57 | 9.63   | 0.03  | Average |
| 4  | 0.444  | 37.07 | 56.98 | -19.91 | 27.41 | 9.63   | 0.03  | QP      |
| 5  | 3.759  | 26.22 | 46.00 | -19.78 | 16.47 | 9.63   | 0.12  | Average |
| 6  | 3.759  | 36.04 | 56.00 | -19.96 | 26.29 | 9.63   | 0.12  | QP      |
| 7  | 4.647  | 26.95 | 46.00 | -19.05 | 17.18 | 9.64   | 0.13  | Average |
| 8  | 4.647  | 36.80 | 56.00 | -19.20 | 27.03 | 9.64   | 0.13  | QP      |
| 9  | 5.362  | 26.70 | 50.00 | -23.30 | 16.92 | 9.65   | 0.13  | Average |
| 10 | 5.362  | 36.31 | 60.00 | -23.69 | 26.53 | 9.65   | 0.13  | QP      |
| 11 | 20.056 | 25.51 | 50.00 | -24.49 | 15.56 | 9.78   | 0.17  | Average |
| 12 | 20.056 | 33.24 | 60.00 | -26.76 | 23.29 | 9.78   | 0.17  | 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) | 5785 |
| Power Phase | Line  |                  |      |

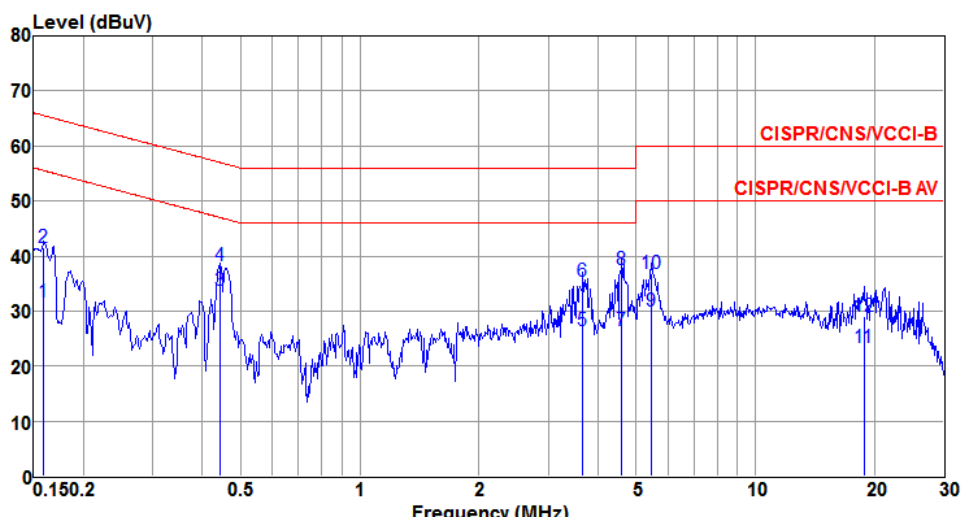


|    | Freq   | Level | Limit | Over   | Read  | LISN   | cable |         |
|----|--------|-------|-------|--------|-------|--------|-------|---------|
|    | MHz    | dBuV  | Line  | Limit  | Level | factor | loss  | Remark  |
|    |        |       | dBuV  | dB     | dBuV  | dB     | dB    |         |
| 1  | 0.162  | 32.82 | 55.34 | -22.52 | 23.17 | 9.63   | 0.02  | Average |
| 2  | 0.162  | 44.08 | 65.34 | -21.26 | 34.43 | 9.63   | 0.02  | QP      |
| 3  | 0.303  | 27.25 | 50.15 | -22.90 | 17.59 | 9.63   | 0.03  | Average |
| 4  | 0.303  | 35.35 | 60.15 | -24.80 | 25.69 | 9.63   | 0.03  | QP      |
| 5  | 0.454  | 37.33 | 46.80 | -9.47  | 27.67 | 9.63   | 0.03  | Average |
| 6  | 0.454  | 40.11 | 56.80 | -16.69 | 30.45 | 9.63   | 0.03  | QP      |
| 7  | 4.598  | 27.90 | 46.00 | -18.10 | 18.12 | 9.65   | 0.13  | Average |
| 8  | 4.598  | 37.91 | 56.00 | -18.09 | 28.13 | 9.65   | 0.13  | QP      |
| 9  | 5.505  | 30.01 | 50.00 | -19.99 | 20.23 | 9.65   | 0.13  | Average |
| 10 | 5.505  | 36.70 | 60.00 | -23.30 | 26.92 | 9.65   | 0.13  | QP      |
| 11 | 19.740 | 25.05 | 50.00 | -24.95 | 15.19 | 9.69   | 0.17  | Average |
| 12 | 19.740 | 34.47 | 60.00 | -25.53 | 24.61 | 9.69   | 0.17  | 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) | 5785 |
| Power Phase | Neutral |                  |      |



|    | Freq   | Level | Limit | Over   | Read  | LISN   | cable |         |
|----|--------|-------|-------|--------|-------|--------|-------|---------|
|    | MHz    | dBuV  | Line  | Limit  | Level | factor | loss  | Remark  |
|    |        |       | dBuV  | dB     | dBuV  | dB     | dB    |         |
| 1  | 0.159  | 31.61 | 55.52 | -23.91 | 21.97 | 9.62   | 0.02  | Average |
| 2  | 0.159  | 41.63 | 65.52 | -23.89 | 31.99 | 9.62   | 0.02  | QP      |
| 3  | 0.444  | 33.87 | 46.98 | -13.11 | 24.21 | 9.63   | 0.03  | Average |
| 4  | 0.444  | 38.21 | 56.98 | -18.77 | 28.55 | 9.63   | 0.03  | QP      |
| 5  | 3.661  | 26.49 | 46.00 | -19.51 | 16.75 | 9.63   | 0.11  | Average |
| 6  | 3.661  | 35.43 | 56.00 | -20.57 | 25.69 | 9.63   | 0.11  | QP      |
| 7  | 4.598  | 26.45 | 46.00 | -19.55 | 16.68 | 9.64   | 0.13  | Average |
| 8  | 4.598  | 37.56 | 56.00 | -18.44 | 27.79 | 9.64   | 0.13  | QP      |
| 9  | 5.476  | 29.96 | 50.00 | -20.04 | 20.18 | 9.65   | 0.13  | Average |
| 10 | 5.476  | 36.81 | 60.00 | -23.19 | 27.03 | 9.65   | 0.13  | QP      |
| 11 | 18.820 | 23.26 | 50.00 | -26.74 | 13.31 | 9.77   | 0.18  | Average |
| 12 | 18.820 | 29.10 | 60.00 | -30.90 | 19.15 | 9.77   | 0.18  | 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.

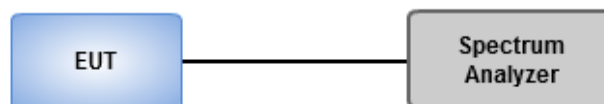
#### Occupied Bandwidth

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

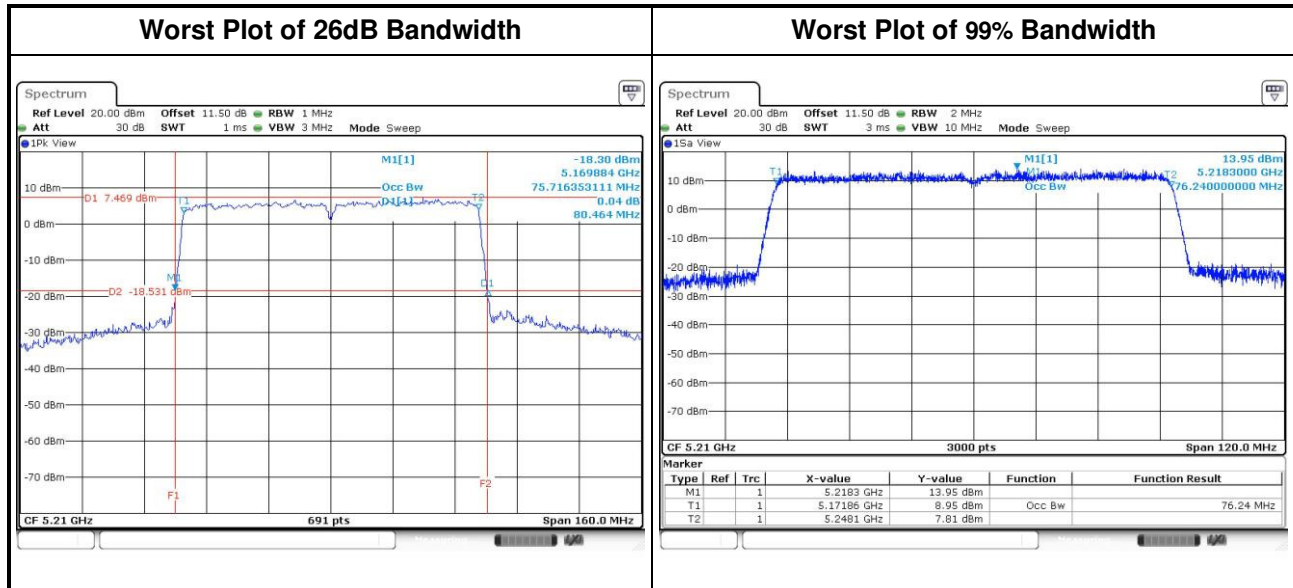
### 3.2.3 Test Setup



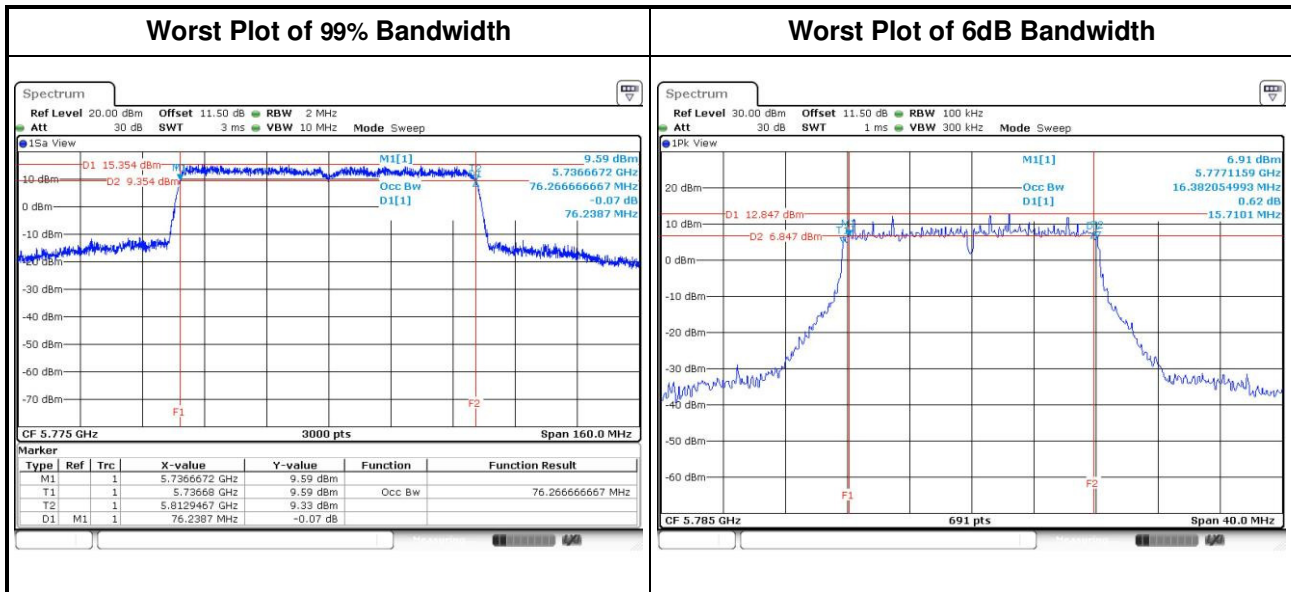
### 3.2.4 Test Result of Emission Bandwidth

#### Non-beamforming mode

| For Frequency band 5150-5250 MHz |                 |             |                      |         |         |         |                     |         |         |         |
|----------------------------------|-----------------|-------------|----------------------|---------|---------|---------|---------------------|---------|---------|---------|
| Emission Bandwidth               |                 |             |                      |         |         |         |                     |         |         |         |
| Mode                             | N <sub>TX</sub> | Freq. (MHz) | 26dB Bandwidth (MHz) |         |         |         | 99% Bandwidth (MHz) |         |         |         |
|                                  |                 |             | Chain 0              | Chain 1 | Chain 2 | Chain 3 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |
| 11a                              | 4               | 5180        | 20.12                | 20.12   | 20.06   | 19.42   | 16.47               | 16.44   | 16.41   | 16.42   |
| 11a                              | 4               | 5200        | 19.88                | 20.41   | 20.29   | 20.12   | 16.45               | 16.45   | 16.41   | 16.44   |
| 11a                              | 4               | 5240        | 19.88                | 19.83   | 19.65   | 20.17   | 16.45               | 16.45   | 16.40   | 16.42   |
| VHT20                            | 4               | 5180        | 20.64                | 20.64   | 20.46   | 20.46   | 17.60               | 17.60   | 17.58   | 17.59   |
| VHT20                            | 4               | 5200        | 20.58                | 20.70   | 20.70   | 20.75   | 17.60               | 17.61   | 17.60   | 17.61   |
| VHT20                            | 4               | 5240        | 20.41                | 20.52   | 20.64   | 20.75   | 17.58               | 17.60   | 17.57   | 17.60   |
| VHT40                            | 4               | 5190        | 40.81                | 40.81   | 40.46   | 40.46   | 36.26               | 36.26   | 36.28   | 36.22   |
| VHT40                            | 4               | 5230        | 41.04                | 40.93   | 40.58   | 40.81   | 36.26               | 36.28   | 36.32   | 36.28   |
| VHT80                            | 4               | 5210        | 80.46                | 80.46   | 80.46   | 80.46   | 76.00               | 75.96   | 76.04   | 75.84   |
| VHT80+80                         | 2               | 5210        | 80.23                | 80.23   | ---     | ---     | 76.16               | 76.24   | ---     | ---     |

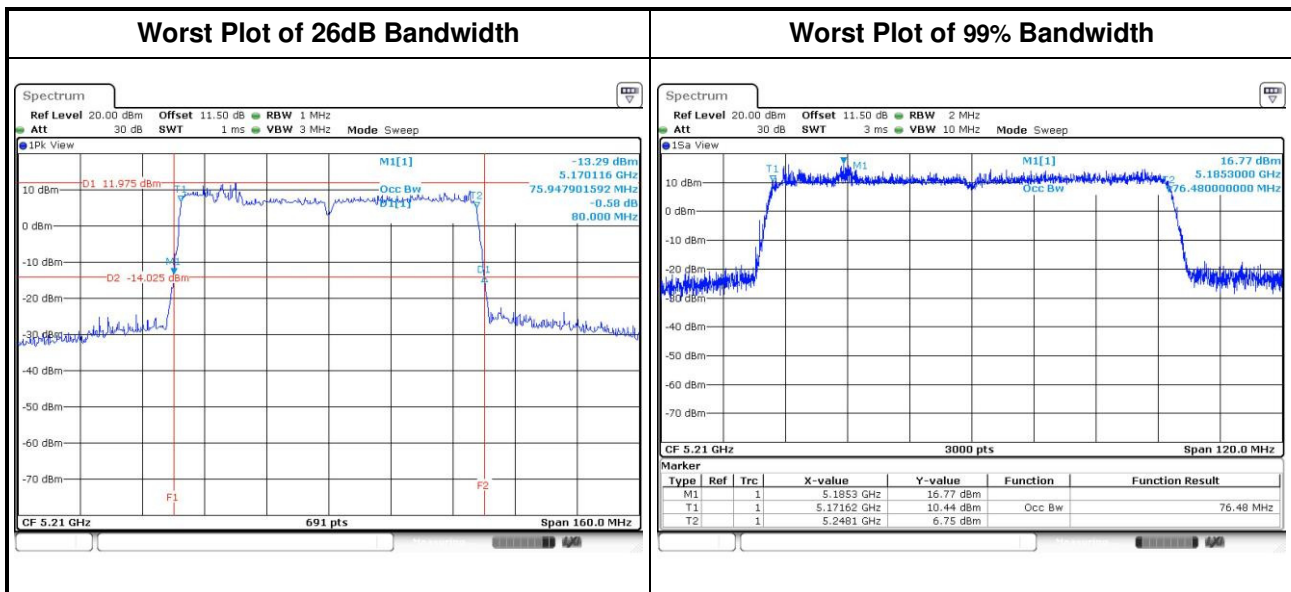


| For Frequency band 5725-5850 MHz |                 |             |                     |         |         |         |                     |         |         |         |                    |
|----------------------------------|-----------------|-------------|---------------------|---------|---------|---------|---------------------|---------|---------|---------|--------------------|
| Emission Bandwidth               |                 |             |                     |         |         |         |                     |         |         |         |                    |
| Mode                             | N <sub>TX</sub> | Freq. (MHz) | OBW Bandwidth (MHz) |         |         |         | 6dB Bandwidth (MHz) |         |         |         |                    |
|                                  |                 |             | Chain 0             | Chain 1 | Chain 2 | Chain 3 | Chain 0             | Chain 1 | Chain 2 | Chain 3 | 6dB BW Limit (MHz) |
| 11a                              | 4               | 5745        | 16.48               | 16.47   | 16.45   | 16.45   | 16.35               | 16.35   | 16.29   | 16.29   | 0.5                |
| 11a                              | 4               | 5785        | 16.48               | 16.49   | 16.43   | 16.45   | 16.29               | 16.29   | 15.71   | 16.29   | 0.5                |
| 11a                              | 4               | 5825        | 16.51               | 16.51   | 16.43   | 16.48   | 16.29               | 16.29   | 16.29   | 16.29   | 0.5                |
| VHT20                            | 4               | 5745        | 16.48               | 16.48   | 16.45   | 16.47   | 17.57               | 17.57   | 16.52   | 17.57   | 0.5                |
| VHT20                            | 4               | 5785        | 17.63               | 17.63   | 17.61   | 17.64   | 17.57               | 16.75   | 17.57   | 17.16   | 0.5                |
| VHT20                            | 4               | 5825        | 17.61               | 17.65   | 17.61   | 17.64   | 17.16               | 17.57   | 16.29   | 17.16   | 0.5                |
| VHT40                            | 4               | 5755        | 36.40               | 36.35   | 36.32   | 36.29   | 35.71               | 35.36   | 35.13   | 35.13   | 0.5                |
| VHT40                            | 4               | 5795        | 36.40               | 36.37   | 36.43   | 36.35   | 35.71               | 35.59   | 35.13   | 35.36   | 0.5                |
| VHT80                            | 4               | 5775        | 76.11               | 76.11   | 76.16   | 76.11   | 76.29               | 75.59   | 75.83   | 75.59   | 0.5                |
| VHT80+80                         | 2               | 5775        | ---                 | ---     | 76.27   | 76.21   | ---                 | ---     | 75.83   | 76.06   | 0.5                |



## Beamforming mode

| For Frequency band 5150-5250 MHz |                 |                |                      |         |         |         |                     |         |         |         |
|----------------------------------|-----------------|----------------|----------------------|---------|---------|---------|---------------------|---------|---------|---------|
| Emission Bandwidth               |                 |                |                      |         |         |         |                     |         |         |         |
| Mode                             | N <sub>TX</sub> | Freq.<br>(MHz) | 26dB Bandwidth (MHz) |         |         |         | 99% Bandwidth (MHz) |         |         |         |
|                                  |                 |                | Chain 0              | Chain 1 | Chain 2 | Chain 3 | Chain 0             | Chain 1 | Chain 2 | Chain 3 |
| VHT20                            | 4               | 5180           | 20.64                | 20.99   | 20.64   | 20.46   | 17.65               | 17.64   | 17.64   | 17.65   |
| VHT20                            | 4               | 5200           | 20.58                | 20.87   | 20.99   | 20.99   | 17.64               | 17.65   | 17.64   | 17.65   |
| VHT20                            | 4               | 5240           | 20.58                | 20.70   | 20.99   | 21.04   | 17.63               | 17.65   | 17.59   | 17.65   |
| VHT40                            | 4               | 5190           | 40.23                | 40.00   | 40.00   | 40.23   | 36.38               | 36.42   | 36.36   | 36.30   |
| VHT40                            | 4               | 5230           | 40.00                | 40.35   | 40.00   | 40.35   | 36.26               | 36.34   | 36.36   | 36.38   |
| VHT80                            | 4               | 5210           | 79.54                | 80.00   | 79.77   | 79.77   | 76.36               | 76.12   | 76.16   | 76.40   |
| VHT80+<br>80                     | 2               | 5210           | 79.54                | 79.30   | ---     | ---     | 76.48               | 76.40   | ---     | ---     |

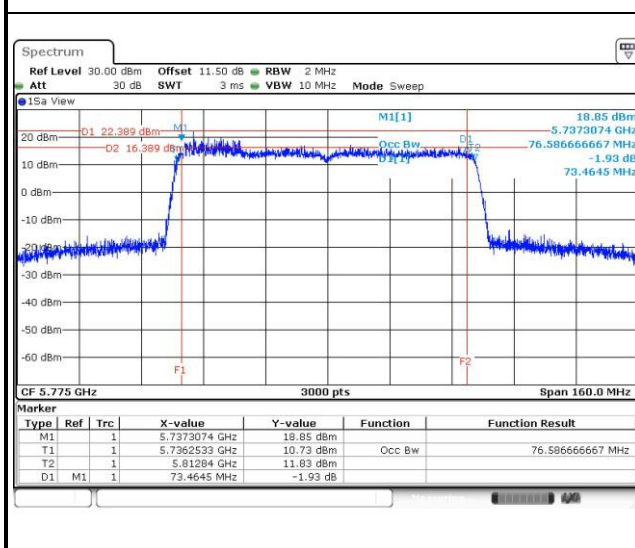


**For Frequency band 5725-5850 MHz**

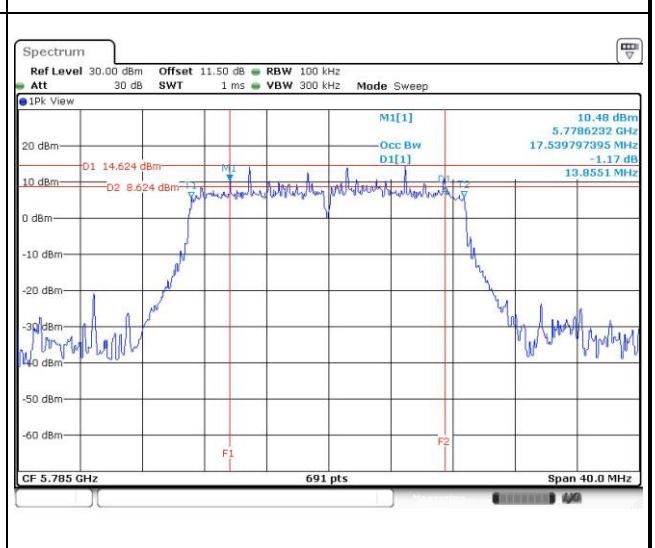
**Emission Bandwidth**

| Mode         | N <sub>TX</sub> | Freq. (MHz) | OBW Bandwidth (MHz) |         |         |         | 6dB Bandwidth (MHz) |         |         |         |                    |
|--------------|-----------------|-------------|---------------------|---------|---------|---------|---------------------|---------|---------|---------|--------------------|
|              |                 |             | Chain 0             | Chain 1 | Chain 2 | Chain 3 | Chain 0             | Chain 1 | Chain 2 | Chain 3 | 6dB BW Limit (MHz) |
| VHT20        | 4               | 5745        | 17.55               | 17.56   | 17.57   | 17.57   | 14.43               | 15.77   | 17.57   | 17.45   | 0.5                |
| VHT20        | 4               | 5785        | 17.69               | 17.67   | 17.67   | 17.68   | 15.42               | 13.86   | 16.87   | 16.99   | 0.5                |
| VHT20        | 4               | 5825        | 17.57               | 17.68   | 17.65   | 17.68   | 17.22               | 17.57   | 15.13   | 17.39   | 0.5                |
| VHT40        | 4               | 5755        | 36.45               | 36.37   | 36.37   | 36.37   | 35.48               | 35.71   | 35.48   | 35.36   | 0.5                |
| VHT40        | 4               | 5795        | 36.48               | 36.32   | 36.35   | 36.35   | 35.07               | 35.59   | 35.13   | 34.44   | 0.5                |
| VHT80        | 4               | 5775        | 76.59               | 76.16   | 76.48   | 76.27   | 75.83               | 73.28   | 75.83   | 75.83   | 0.5                |
| VHT80+<br>80 | 2               | 5775        | ---                 | ---     | 76.32   | 76.21   | ---                 | ---     | 75.83   | 76.06   | 0.5                |

**Worst Plot of 99% Bandwidth**



**Worst Plot of 6dB Bandwidth**



### 3.3 RF Output Power

#### 3.3.1 Limit of RF Output Power

| Frequency band 5150-5250 MHz        |                                    |                                                                                                                                                   |
|-------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Mode                      |                                    | Limit                                                                                                                                             |
| <input 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 checked="" 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"/>            | Mobile and portable client devices | Conducted Power: 250 mW                                                                                                                           |

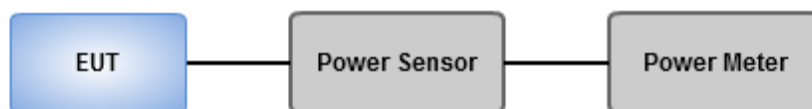
| Frequency Band (MHz)                            | Limit                   |
|-------------------------------------------------|-------------------------|
| <input type="checkbox"/> 5250 ~ 5350            | 250mW or 11dBm+10 log B |
| <input type="checkbox"/> 5470 ~ 5725            | 250mW or 11dBm+10 log B |
| <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

#### *Non-beamforming mode*

| For Frequency band 5150-5250 MHz |                 |             |                       |         |         |         |                  |                   |             |
|----------------------------------|-----------------|-------------|-----------------------|---------|---------|---------|------------------|-------------------|-------------|
| Mode                             | N <sub>TX</sub> | Freq. (MHz) | Conducted Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Limit (dBm) |
|                                  |                 |             | Chain 0               | Chain 1 | Chain 2 | Chain 3 |                  |                   |             |
| 11a                              | 4               | 5180        | 22.01                 | 22.30   | 22.15   | 22.16   | 657.175          | 28.18             | 30.00       |
| 11a                              | 4               | 5200        | 22.98                 | 23.12   | 22.71   | 23.02   | 790.811          | 28.98             | 30.00       |
| 11a                              | 4               | 5240        | 22.95                 | 23.07   | 22.39   | 22.88   | 767.480          | 28.85             | 30.00       |
| HT20                             | 4               | 5180        | 20.76                 | 21.12   | 20.80   | 21.07   | 496.708          | 26.96             | 30.00       |
| HT20                             | 4               | 5200        | 22.71                 | 23.21   | 22.74   | 23.11   | 788.625          | 28.97             | 30.00       |
| HT20                             | 4               | 5240        | 22.59                 | 22.87   | 22.30   | 22.65   | 729.095          | 28.63             | 30.00       |
| HT40                             | 4               | 5190        | 18.40                 | 18.61   | 18.29   | 18.54   | 280.696          | 24.48             | 30.00       |
| HT40                             | 4               | 5230        | 23.71                 | 24.01   | 23.46   | 24.01   | 960.318          | 29.82             | 30.00       |
| VHT20                            | 4               | 5180        | 20.81                 | 21.15   | 20.86   | 21.14   | 502.736          | 27.01             | 30.00       |
| VHT20                            | 4               | 5200        | 22.75                 | 23.25   | 22.78   | 23.13   | 794.973          | 29.00             | 30.00       |
| VHT20                            | 4               | 5240        | 22.63                 | 22.91   | 22.33   | 22.71   | 736.305          | 28.67             | 30.00       |
| VHT40                            | 4               | 5190        | 18.45                 | 18.63   | 18.32   | 18.58   | 282.961          | 24.52             | 30.00       |
| VHT40                            | 4               | 5230        | 23.77                 | 24.05   | 23.5    | 24.07   | 971.471          | <b>29.87</b>      | 30.00       |
| VHT80                            | 4               | 5210        | 15.28                 | 15.3    | 15.01   | 15.4    | 133.983          | 21.27             | 30.00       |
| VHT80+80                         | 2               | 5210        | 18.67                 | 18.89   | ---     | ---     | 151.067          | 21.79             | 30.00       |

| For Frequency band 5725-5850 MHz |                 |             |                       |         |         |         |                  |                   |             |
|----------------------------------|-----------------|-------------|-----------------------|---------|---------|---------|------------------|-------------------|-------------|
| Mode                             | N <sub>TX</sub> | Freq. (MHz) | Conducted Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Limit (dBm) |
|                                  |                 |             | Chain 0               | Chain 1 | Chain 2 | Chain 3 |                  |                   |             |
| 11a                              | 4               | 5745        | 23.61                 | 23.77   | 23.28   | 23.53   | 906.085          | 29.57             | 30.00       |
| 11a                              | 4               | 5785        | 23.82                 | 23.99   | 23.19   | 23.89   | 944.957          | 29.75             | 30.00       |
| 11a                              | 4               | 5825        | 24.01                 | 24.05   | 23.63   | 23.94   | 984.282          | <b>29.93</b>      | 30.00       |
| HT20                             | 4               | 5745        | 23.32                 | 23.47   | 23.11   | 23.51   | 866.147          | 29.38             | 30.00       |
| HT20                             | 4               | 5785        | 23.57                 | 23.69   | 23.06   | 23.69   | 897.579          | 29.53             | 30.00       |
| HT20                             | 4               | 5825        | 23.90                 | 23.92   | 22.81   | 23.71   | 918.023          | 29.63             | 30.00       |
| HT40                             | 4               | 5755        | 23.86                 | 23.92   | 23.61   | 23.84   | 961.542          | 29.83             | 30.00       |
| HT40                             | 4               | 5795        | 23.94                 | 23.91   | 23.52   | 23.84   | 960.787          | 29.83             | 30.00       |
| VHT20                            | 4               | 5745        | 23.38                 | 23.51   | 23.14   | 23.55   | 874.687          | 29.42             | 30.00       |
| VHT20                            | 4               | 5785        | 23.59                 | 23.73   | 23.11   | 23.72   | 904.757          | 29.57             | 30.00       |
| VHT20                            | 4               | 5825        | 23.95                 | 23.98   | 22.87   | 23.75   | 929.127          | 29.68             | 30.00       |
| VHT40                            | 4               | 5755        | 23.89                 | 23.95   | 23.65   | 23.87   | 968.740          | 29.86             | 30.00       |
| VHT40                            | 4               | 5795        | 23.99                 | 23.96   | 23.55   | 23.88   | 970.304          | 29.87             | 30.00       |
| VHT80                            | 4               | 5775        | 22.98                 | 22.93   | 22.15   | 22.76   | 747.804          | 28.74             | 30.00       |
| VHT80+80                         | 2               | 5775        | ---                   | ---     | 20.21   | 20.69   | 222.174          | 23.47             | 30.00       |

### Beamforming mode

| For Frequency band 5150-5250 MHz |                 |             |                       |         |         |         |                  |                   |             |
|----------------------------------|-----------------|-------------|-----------------------|---------|---------|---------|------------------|-------------------|-------------|
| Mode                             | N <sub>TX</sub> | Freq. (MHz) | Conducted Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Limit (dBm) |
|                                  |                 |             | Chain 0               | Chain 1 | Chain 2 | Chain 3 |                  |                   |             |
| HT20                             | 4               | 5180        | 21.55                 | 21.73   | 21.54   | 21.49   | 575.315          | 27.60             | 28.44       |
| HT20                             | 4               | 5200        | 21.44                 | 21.87   | 21.47   | 21.59   | 577.624          | 27.62             | 28.44       |
| HT20                             | 4               | 5240        | 21.43                 | 21.86   | 21.37   | 21.44   | 568.861          | 27.55             | 28.44       |
| HT40                             | 4               | 5190        | 17.16                 | 18.29   | 17.87   | 17.75   | 240.254          | 23.81             | 28.44       |
| HT40                             | 4               | 5230        | 21.34                 | 21.78   | 21.76   | 21.75   | 586.397          | 27.68             | 28.44       |
| VHT20                            | 4               | 5180        | 21.62                 | 21.83   | 21.62   | 21.53   | 585.060          | 27.67             | 28.44       |
| VHT20                            | 4               | 5200        | 21.53                 | 21.93   | 21.56   | 21.65   | 587.625          | 27.69             | 28.44       |
| VHT20                            | 4               | 5240        | 21.5                  | 21.92   | 21.44   | 21.52   | 578.072          | 27.62             | 28.44       |
| VHT40                            | 4               | 5190        | 17.21                 | 18.35   | 17.98   | 17.82   | 244.333          | 23.88             | 28.44       |
| VHT40                            | 4               | 5230        | 21.43                 | 21.85   | 21.88   | 21.89   | 600.799          | <b>27.79</b>      | 28.44       |
| VHT80                            | 4               | 5210        | 15.31                 | 15.52   | 15.66   | 15.38   | 140.935          | 21.49             | 28.44       |
| VHT80+80                         | 2               | 5210        | 18.53                 | 18.89   | ---     | ---     | 148.731          | 21.72             | 30.00       |

**Note:**

- For 4TX mode, Directional gain =  $10 * \log((10^{1.32/20} + 10^{2.48/20} + 10^{1.3/20} + 10^{0.98/20})^2/4) = 7.56 \text{ dBi} > 6 \text{ dBi}$   
Limit shall be reduced to  $30 \text{ dBm} - (7.56 \text{ dBi} - 6 \text{ dBi}) = 28.44 \text{ dBm}$

| For Frequency band 5725-5850 MHz |                 |             |                       |         |         |         |                  |                   |             |
|----------------------------------|-----------------|-------------|-----------------------|---------|---------|---------|------------------|-------------------|-------------|
| Mode                             | N <sub>TX</sub> | Freq. (MHz) | Conducted Power (dBm) |         |         |         | Total Power (mW) | Total Power (dBm) | Limit (dBm) |
|                                  |                 |             | Chain 0               | Chain 1 | Chain 2 | Chain 3 |                  |                   |             |
| HT20                             | 4               | 5745        | 21.26                 | 21.49   | 21.35   | 21.33   | 546.878          | 27.38             | 27.60       |
| HT20                             | 4               | 5785        | 21.41                 | 21.63   | 21.06   | 21.48   | 552.151          | 27.42             | 27.60       |
| HT20                             | 4               | 5825        | 21.49                 | 21.35   | 21.27   | 21.22   | 543.789          | 27.35             | 27.60       |
| HT40                             | 4               | 5755        | 20.99                 | 21.18   | 21.01   | 21.04   | 510.063          | 27.08             | 27.60       |
| HT40                             | 4               | 5795        | 21.08                 | 21.11   | 20.79   | 21.26   | 510.964          | 27.08             | 27.60       |
| VHT20                            | 4               | 5745        | 21.39                 | 21.58   | 21.43   | 21.46   | 560.555          | 27.49             | 27.60       |
| VHT20                            | 4               | 5785        | 21.52                 | 21.73   | 21.12   | 21.59   | 564.473          | <b>27.52</b>      | 27.60       |
| VHT20                            | 4               | 5825        | 21.51                 | 21.48   | 21.39   | 21.36   | 556.678          | 27.46             | 27.60       |
| VHT40                            | 4               | 5755        | 21.03                 | 21.22   | 21.03   | 21.11   | 515.086          | 27.12             | 27.60       |
| VHT40                            | 4               | 5795        | 21.14                 | 21.18   | 20.88   | 21.35   | 520.157          | 27.16             | 27.60       |
| VHT80                            | 4               | 5775        | 20.85                 | 21.21   | 20.99   | 21.53   | 521.584          | 27.17             | 27.60       |
| VHT80+80                         | 2               | 5775        | ---                   | ---     | 20.15   | 20.53   | 216.494          | 23.35             | 30.00       |

**Note:**

- For 4TX mode, Directional gain =  $10 * \log((10^{2.09/20} + 10^{2.81/20} + 10^{2.72/20} + 10^{1.85/20})^2/4) = 8.40 \text{ dBi} > 6 \text{ dBi}$   
Limit shall be reduced to  $30 \text{ dBm} - (8.40 \text{ dBi} - 6 \text{ dBi}) = 27.60 \text{ dBm}$

### 3.4 Peak Power Spectral Density

#### 3.4.1 Limit of Peak Power Spectral Density

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

| Frequency Band (MHz)                |             | Limit            |
|-------------------------------------|-------------|------------------|
| <input type="checkbox"/>            | 5250 ~ 5350 | 11 dBm / MHz     |
| <input type="checkbox"/>            | 5470 ~ 5725 | 11 dBm / MHz     |
| <input checked="" type="checkbox"/> | 5725 ~ 5850 | 30 dBm / 500 kHz |

### 3.4.2 Test Procedures

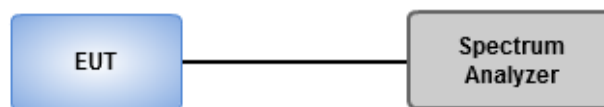
#### For 5150 ~ 5250 MHz

- ☒ Method SA-1 (Non- Beamforming: 802.11a/VHT20/VHT40)
  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.
- ☒ Method SA-2 Alternative (Non- Beamforming: VHT80 / Beamforming: 11ac VHT20, VHT40, VHT80)
  1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
  2. Set sweep time  $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$ .
  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

- ☒ Method SA-1 (Non- Beamforming: 802.11a/VHT20/VHT40)
  1. Set RBW = 500 kHz, VBW = 2 MHz, Sweep time = auto, Detector = RMS.
  2. Trace average 100 traces.
  3. Use the peak marker function to determine the maximum amplitude level.
- ☒ Method SA-2 Alternative (Non- Beamforming: VHT80 / Beamforming: 11ac VHT20, VHT40, VHT80)
  1. Set RBW = 500 kHz, VBW = 2 MHz, Detector = RMS.
  2. Set sweep time  $\geq 10 * (\text{number of points in sweep}) * (\text{total on/off period of the transmitted signal})$ .
  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



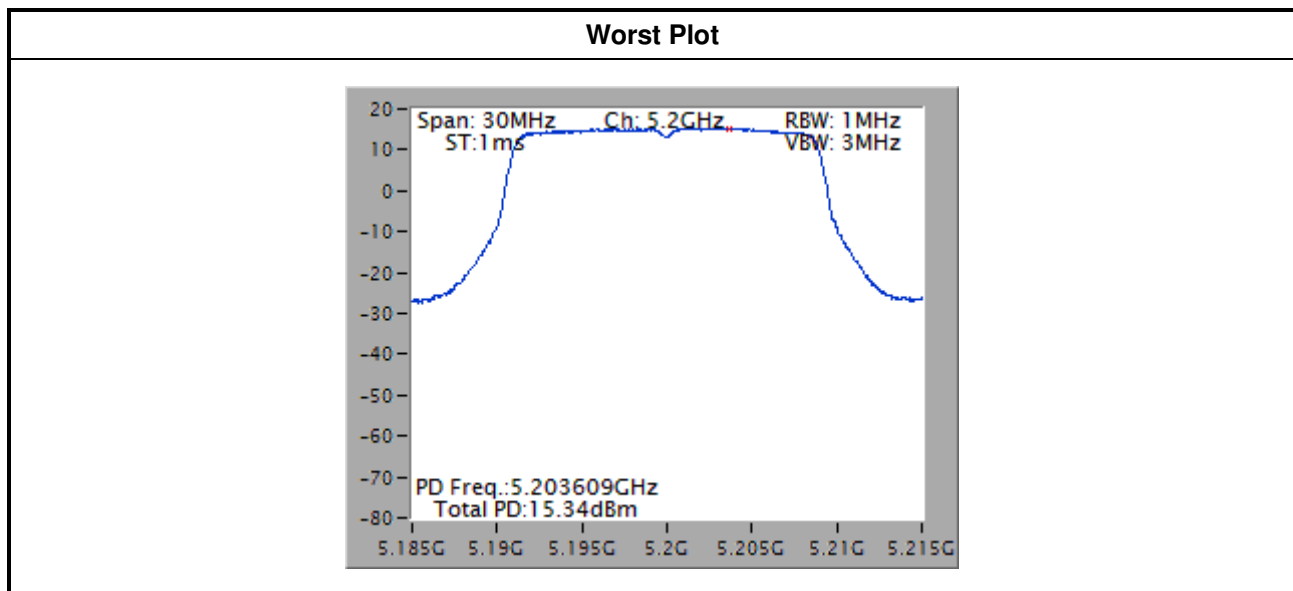
### 3.4.4 Test Result of Peak Power Spectral Density

#### Non-beamforming mode

| For Frequency band 5150-5250 MHz |                 |             |                                       |                  |                         |                      |
|----------------------------------|-----------------|-------------|---------------------------------------|------------------|-------------------------|----------------------|
| Condition                        |                 |             | Peak Power Spectral Density (dBm/MHz) |                  |                         |                      |
| Modulation Mode                  | N <sub>TX</sub> | Freq. (MHz) | PPSD w/o D.F (dBm/MHz)                | Duty Factor (dB) | PPSD with D.F (dBm/MHz) | PPSD Limit (dBm/MHz) |
| 11a                              | 4               | 5180        | 14.31                                 | 0.00             | 14.31                   | 15.44                |
| 11a                              | 4               | 5200        | 15.22                                 | 0.00             | 15.22                   | 15.44                |
| 11a                              | 4               | 5240        | 15.12                                 | 0.00             | 15.12                   | 15.44                |
| VHT20                            | 4               | 5180        | 12.81                                 | 0.00             | 12.81                   | 15.44                |
| VHT20                            | 4               | 5200        | 15.34                                 | 0.00             | 15.34                   | 15.44                |
| VHT20                            | 4               | 5240        | 14.46                                 | 0.00             | 14.46                   | 15.44                |
| VHT40                            | 4               | 5190        | 7.96                                  | 0.00             | 7.96                    | 15.44                |
| VHT40                            | 4               | 5230        | 13.07                                 | 0.00             | 13.07                   | 15.44                |
| VHT80                            | 4               | 5210        | 1.32                                  | 0.19             | 1.51                    | 15.44                |
| VHT80+80                         | 2               | 5210        | 1.87                                  | 0.10             | 1.97                    | 17.00                |

**Note:**

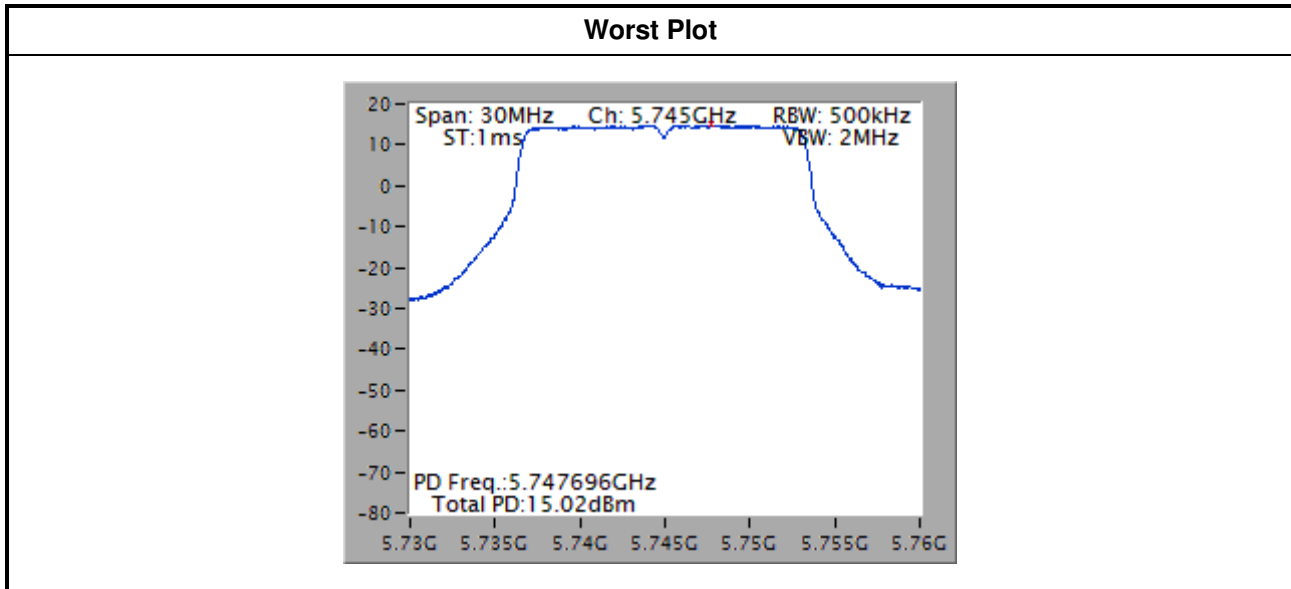
1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. For 4TX mode, Directional gain =  $10 * \log((10^{1.32/20} + 10^{2.48/20} + 10^{1.3/20} + 10^{0.98/20})^2 / 4) = 7.56 \text{ dBi} > 6 \text{ dBi}$   
Limit shall be reduced to 17 dBm  $-(7.56 \text{ dBi} - 6 \text{ dBi}) = 15.44 \text{ dBm}$



| For Frequency band 5725-5850 MHz |                 |             |                                          |                  |                            |                         |
|----------------------------------|-----------------|-------------|------------------------------------------|------------------|----------------------------|-------------------------|
| Condition                        |                 |             | Peak Power Spectral Density (dBm/500kHz) |                  |                            |                         |
| Modulation Mode                  | N <sub>TX</sub> | Freq. (MHz) | PPSD w/o D.F (dBm/500kHz)                | Duty Factor (dB) | PPSD with D.F (dBm/500kHz) | PPSD Limit (dBm/500kHz) |
| 11a                              | 4               | 5745        | 15.02                                    | 0.00             | 15.02                      | 27.60                   |
| 11a                              | 4               | 5785        | 14.95                                    | 0.00             | 14.95                      | 27.60                   |
| 11a                              | 4               | 5825        | 14.97                                    | 0.00             | 14.97                      | 27.60                   |
| VHT20                            | 4               | 5745        | 14.44                                    | 0.00             | 14.44                      | 27.60                   |
| VHT20                            | 4               | 5785        | 14.51                                    | 0.00             | 14.51                      | 27.60                   |
| VHT20                            | 4               | 5825        | 14.67                                    | 0.00             | 14.67                      | 27.60                   |
| VHT40                            | 4               | 5755        | 11.74                                    | 0.00             | 11.74                      | 27.60                   |
| VHT40                            | 4               | 5795        | 11.86                                    | 0.00             | 11.86                      | 27.60                   |
| VHT80                            | 4               | 5775        | 7.35                                     | 0.19             | 7.54                       | 27.60                   |
| VHT80+80                         | 2               | 5775        | 2.20                                     | 0.10             | 2.30                       | 30.00                   |

**Note:**

1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. For 4TX mode, Directional gain =  $10 * \log((10^{2.09/20} + 10^{2.81/20} + 10^{2.72/20} + 10^{1.85/20})^2/4) = 8.40 \text{ dBi} > 6 \text{ dBi}$   
Limit shall be reduced to  $30 \text{ dBm} - (8.40 \text{ dBi} - 6 \text{ dBi}) = 27.60 \text{ dBm}$ .

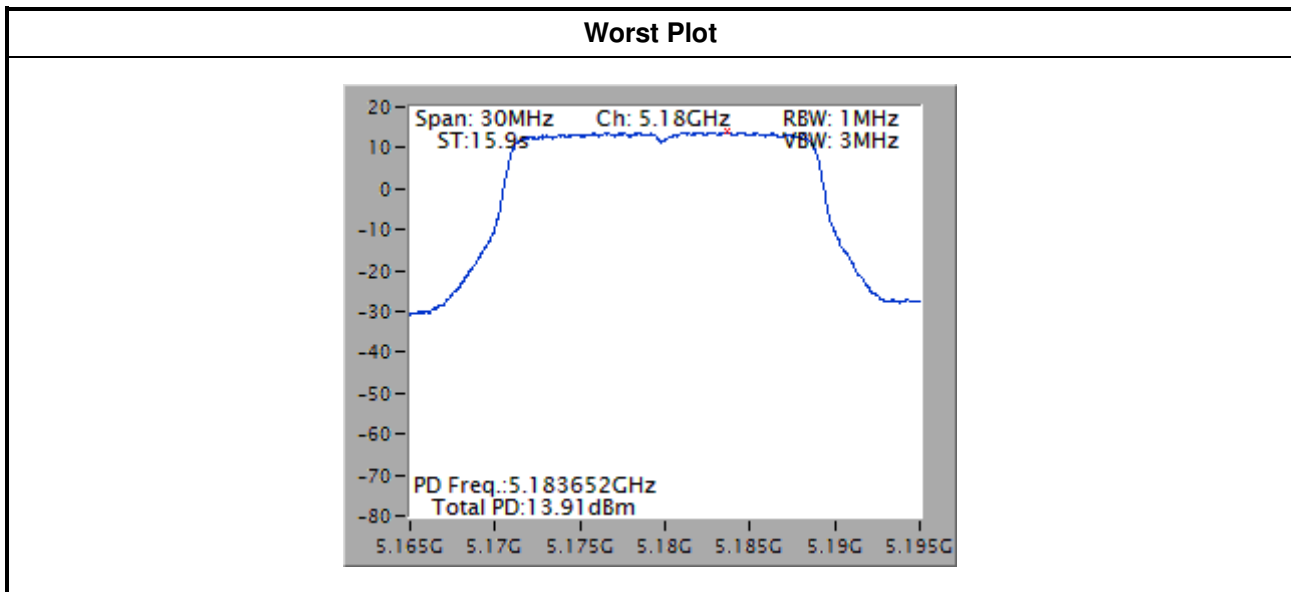


### Beamforming mode

| For Frequency band 5150-5250 MHz |                 |             |                                       |                  |                         |                      |
|----------------------------------|-----------------|-------------|---------------------------------------|------------------|-------------------------|----------------------|
| Condition                        |                 |             | Peak Power Spectral Density (dBm/MHz) |                  |                         |                      |
| Modulation Mode                  | N <sub>TX</sub> | Freq. (MHz) | PPSD w/o D.F (dBm/MHz)                | Duty Factor (dB) | PPSD with D.F (dBm/MHz) | PPSD Limit (dBm/MHz) |
| VHT20                            | 4               | 5180        | 13.91                                 | 0.42             | 14.33                   | 15.44                |
| VHT20                            | 4               | 5200        | 13.79                                 | 0.42             | 14.21                   | 15.44                |
| VHT20                            | 4               | 5240        | 13.80                                 | 0.42             | 14.22                   | 15.44                |
| VHT40                            | 4               | 5190        | 7.07                                  | 0.21             | 7.28                    | 15.44                |
| VHT40                            | 4               | 5230        | 10.97                                 | 0.21             | 11.18                   | 15.44                |
| VHT80                            | 4               | 5210        | 2.62                                  | 0.64             | 3.26                    | 15.44                |
| VHT80+80                         | 2               | 5210        | 2.16                                  | 0.18             | 2.34                    | 17.00                |

**Note:**

1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. For 4TX mode, Directional gain =  $10 * \log((10^{1.32/20} + 10^{2.48/20} + 10^{1.3/20} + 10^{0.98/20})^2 / 4) = 7.56 \text{ dBi} > 6 \text{ dBi}$   
Limit shall be reduced to 17 dBm  $-(7.56 \text{ dBi} - 6 \text{ dBi}) = 15.44 \text{ dBm}$

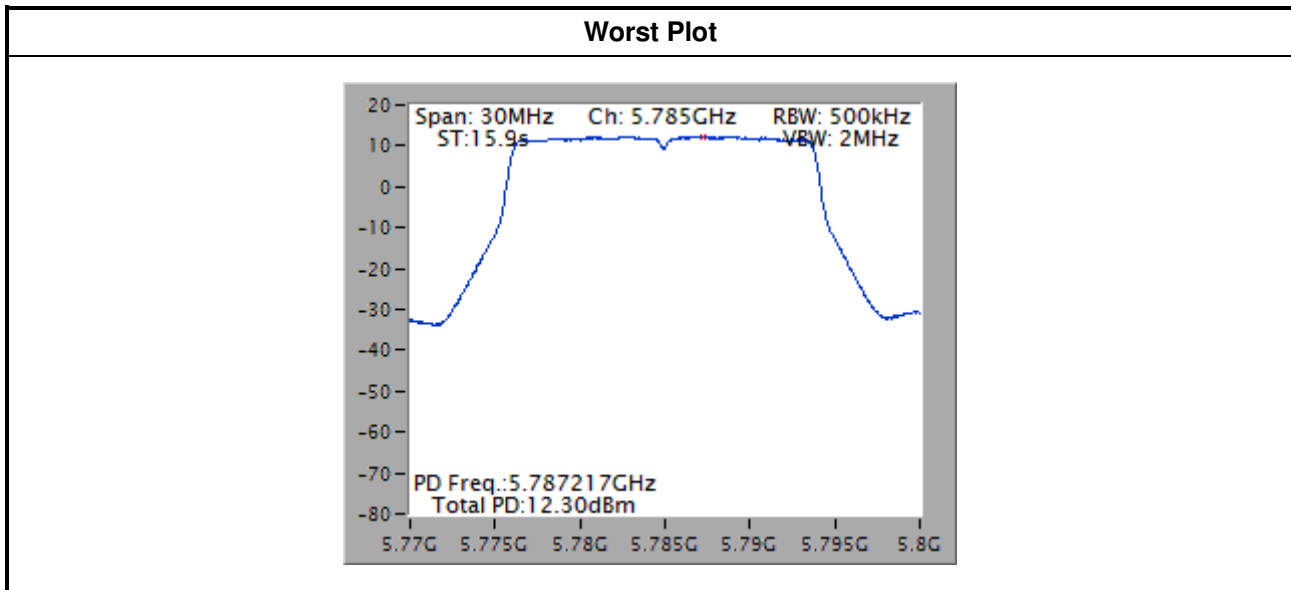


Note: The plot without duty factor.

| For Frequency band 5725-5850 MHz |                 |             |                                          |                  |                            |                         |
|----------------------------------|-----------------|-------------|------------------------------------------|------------------|----------------------------|-------------------------|
| Condition                        |                 |             | Peak Power Spectral Density (dBm/500kHz) |                  |                            |                         |
| Modulation Mode                  | N <sub>TX</sub> | Freq. (MHz) | PPSD w/o D.F (dBm/500kHz)                | Duty Factor (dB) | PPSD with D.F (dBm/500kHz) | PPSD Limit (dBm/500kHz) |
| VHT20                            | 4               | 5745        | 12.13                                    | 0.42             | 12.55                      | 27.60                   |
| VHT20                            | 4               | 5785        | 12.30                                    | 0.42             | 12.72                      | 27.60                   |
| VHT20                            | 4               | 5825        | 12.29                                    | 0.42             | 12.71                      | 27.60                   |
| VHT40                            | 4               | 5755        | 8.97                                     | 0.21             | 9.18                       | 27.60                   |
| VHT40                            | 4               | 5795        | 9.13                                     | 0.21             | 9.34                       | 27.60                   |
| VHT80                            | 4               | 5775        | 5.74                                     | 0.64             | 6.38                       | 27.60                   |
| VHT80+80                         | 2               | 5775        | 2.35                                     | 0.18             | 2.53                       | 30.00                   |

**Note:**

1. D.F is duty factor.
2. Test result is bin-by-bin summing measured value of each TX port.
3. For 4TX mode, Directional gain =  $10 * \log((10^{2.09/20} + 10^{2.81/20} + 10^{2.72/20} + 10^{1.85/20})^2 / 4) = 8.40 \text{ dBi} > 6 \text{ dBi}$   
Limit shall be reduced to  $30 \text{ dBm} - (8.40 \text{ dBi} - 6 \text{ dBi}) = 27.60 \text{ dBm}$ .



Note: The plot without duty factor.

### 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                             | <input type="checkbox"/>            | 15.407(b)(4)(i)<br>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.                                |
|                                               | <input checked="" type="checkbox"/> | 15.407(b)(4)(ii) ,compliance with the emission limits in § 15.247(d)<br>Shall be at least 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power,. Attenuation below the general limits specified in §15.209(a) is not required. In addition,radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see § 15.205(c)) |

**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

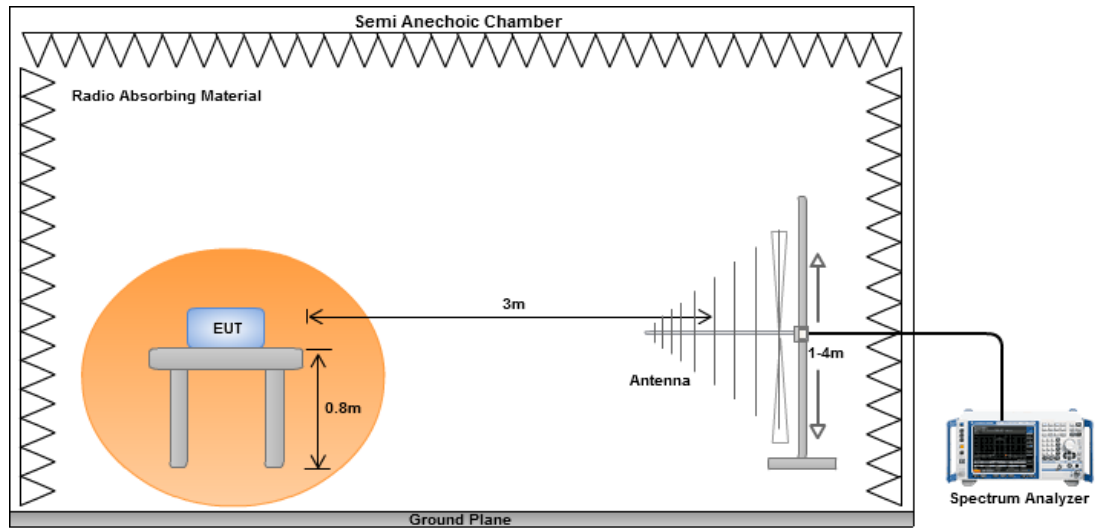
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

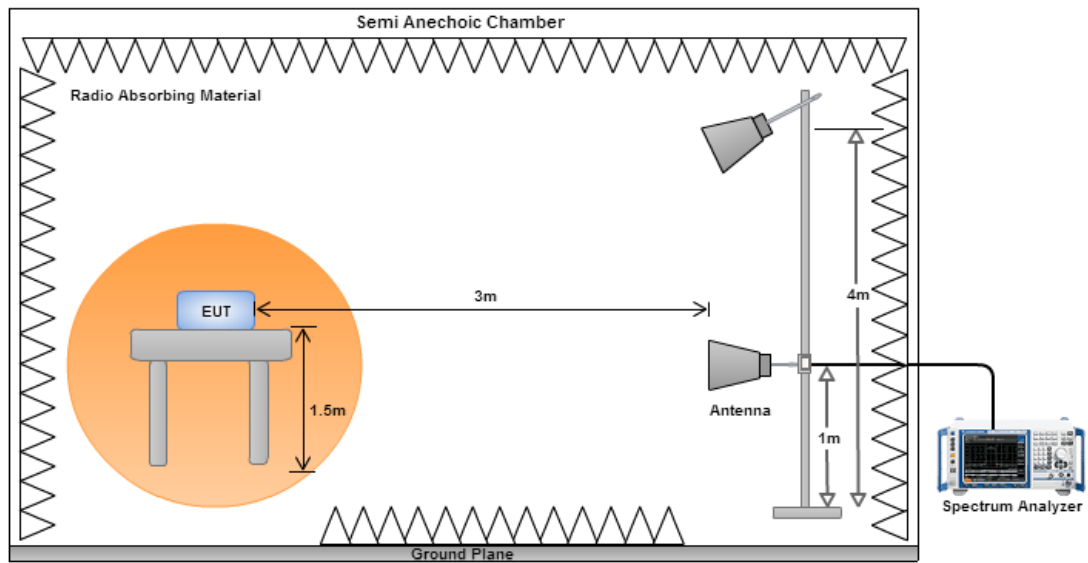
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.
4. Final tests are performed with the beam locked at the worst-case orientation determined in the baseline scan(methodology for circular beamforming pattern) for beamforming mode.

### 3.5.3 Test Setup

#### Radiated Emissions below 1 GHz



#### Radiated Emissions above 1 GHz

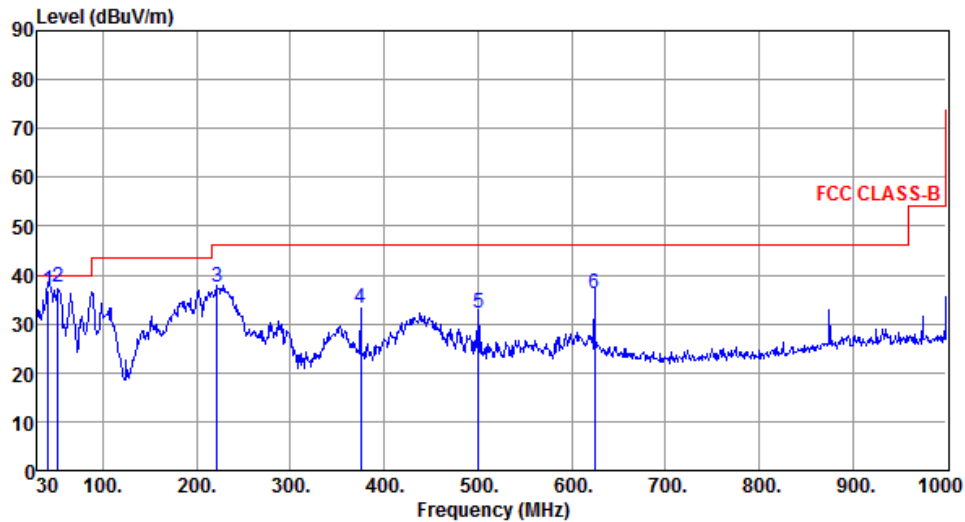


## Non- beamforming mode

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | VHT40      | Test Freq. (MHz) | 5230 |
| 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) | 5230 |
| 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 | 41.43        | 36.86                       | 40.00           | -3.14        | 53.55                 | -16.69       | QP     | 100               | 17                   |
| 2 | 52.17        | 37.54                       | 40.00           | -2.46        | 54.15                 | -16.61       | QP     | 100               | 341                  |
| 3 | 221.55       | 37.43                       | 46.00           | -8.57        | 56.38                 | -18.95       | Peak   | ---               | ---                  |
| 4 | 375.42       | 33.35                       | 46.00           | -12.65       | 47.45                 | -14.10       | Peak   | ---               | ---                  |
| 5 | 500.49       | 32.08                       | 46.00           | -13.92       | 43.19                 | -11.11       | Peak   | ---               | ---                  |
| 6 | 624.32       | 36.24                       | 46.00           | -9.76        | 45.35                 | -9.11        | Peak   | ---               | ---                  |

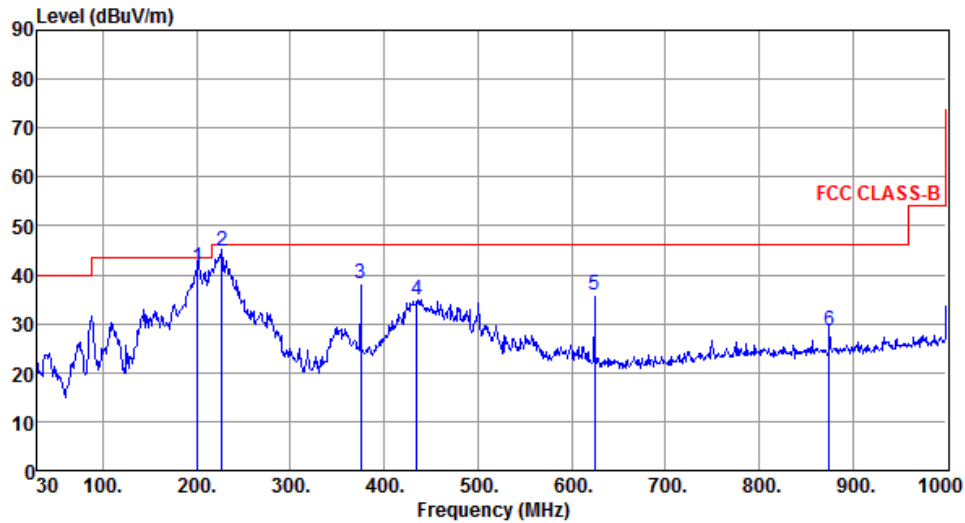
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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.

|              |            |                  |      |
|--------------|------------|------------------|------|
| 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 | 200.73       | 41.37                       | 43.50           | -2.13        | 60.66                 | -19.29       | QP     | 100               | 152                  |
| 2 | 226.58       | 44.71                       | 46.00           | -1.29        | 63.44                 | -18.73       | QP     | 100               | 341                  |
| 3 | 375.37       | 38.22                       | 46.00           | -7.78        | 52.32                 | -14.10       | Peak   | ---               | ---                  |
| 4 | 435.11       | 34.76                       | 46.00           | -11.24       | 47.30                 | -12.54       | Peak   | ---               | ---                  |
| 5 | 624.53       | 35.85                       | 46.00           | -10.15       | 44.96                 | -9.11        | Peak   | ---               | ---                  |
| 6 | 874.51       | 28.63                       | 46.00           | -17.37       | 34.20                 | -5.57        | Peak   | ---               | ---                  |

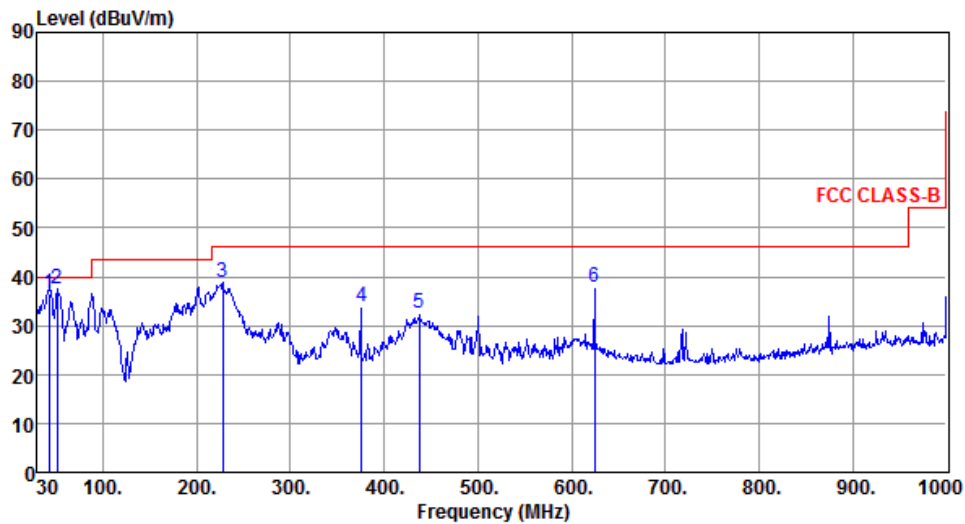
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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.

|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | 11a      | 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 | 42.71        | 36.53                       | 40.00           | -3.47        | 53.08                 | -16.55       | QP     | 100               | 62                   |
| 2 | 51.42        | 37.43                       | 40.00           | -2.57        | 53.96                 | -16.53       | QP     | 100               | 336                  |
| 3 | 227.56       | 38.75                       | 46.00           | -7.25        | 57.44                 | -18.69       | Peak   | ---               | ---                  |
| 4 | 375.62       | 33.93                       | 46.00           | -12.07       | 48.02                 | -14.09       | Peak   | ---               | ---                  |
| 5 | 437.26       | 32.58                       | 46.00           | -13.42       | 45.07                 | -12.49       | Peak   | ---               | ---                  |
| 6 | 624.46       | 37.72                       | 46.00           | -8.28        | 46.83                 | -9.11        | Peak   | ---               | ---                  |

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

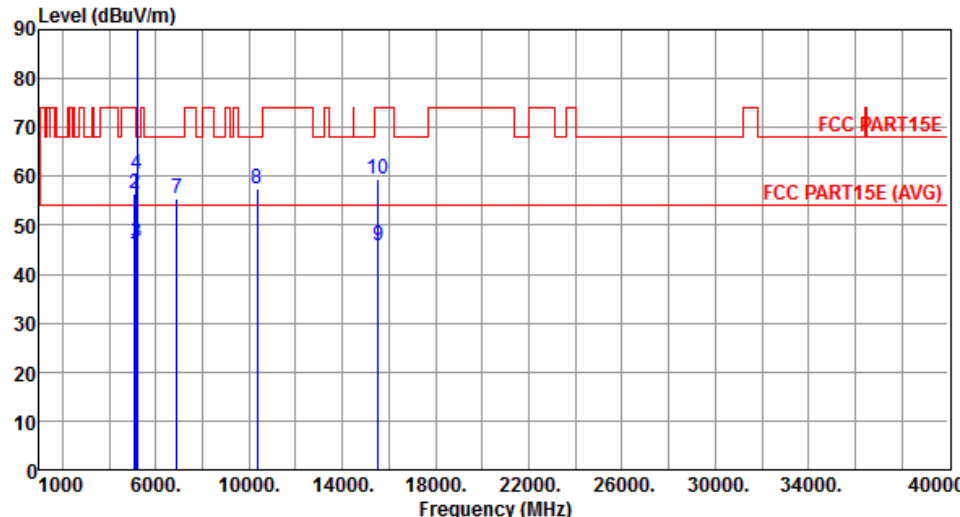
\*Factor includes antenna factor , cable loss and amplifier gain

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.

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

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



|     | Freq.    | Emission | Limit  | Margin | SA      | Factor | Remark  | ANT  | Turn  |
|-----|----------|----------|--------|--------|---------|--------|---------|------|-------|
|     | MHz      | level    |        |        | reading |        |         | High | Table |
|     |          | dBuV/m   | dBuV/m | dB     | dBuV    | dB     |         | cm   | deg   |
| 1   | 5103.00  | 44.11    | 54.00  | -9.89  | 39.78   | 4.33   | Average | 125  | 343   |
| 2   | 5103.00  | 56.62    | 74.00  | -17.38 | 52.29   | 4.33   | Peak    | 125  | 343   |
| 3   | 5150.00  | 46.38    | 54.00  | -7.62  | 41.98   | 4.40   | Average | 100  | 114   |
| 4   | 5150.00  | 60.58    | 74.00  | -13.42 | 56.18   | 4.40   | Peak    | 100  | 114   |
| 5 * | 5180.00  | 102.32   |        |        | 97.88   | 4.44   | Average | 125  | 343   |
| 6 * | 5180.00  | 113.79   |        |        | 109.35  | 4.44   | Peak    | 125  | 343   |
| 7   | 6906.00  | 55.43    | 68.20  | -12.77 | 47.69   | 7.74   | Peak    | 100  | 23    |
| 8   | 10360.00 | 57.29    | 68.20  | -10.91 | 43.09   | 14.20  | Peak    | 100  | 54    |
| 9   | 15540.00 | 45.91    | 54.00  | -8.09  | 30.80   | 15.11  | Average | 144  | 297   |
| 10  | 15540.00 | 59.51    | 74.00  | -14.49 | 44.40   | 15.11  | Peak    | 144  | 297   |

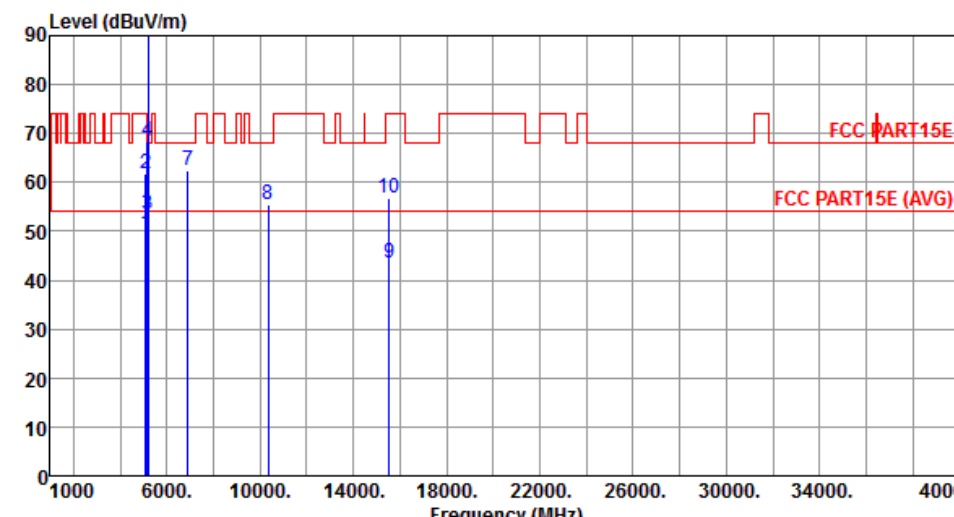
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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 |                  |      |



|     | 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   | 5103.00      | 49.35                       | 54.00           | -4.65        | 45.02                 | 4.33         | Average | 100               | 207                  |
| 2   | 5103.00      | 61.93                       | 74.00           | -12.07       | 57.60                 | 4.33         | Peak    | 100               | 207                  |
| 3   | 5150.00      | 53.56                       | 54.00           | -0.44        | 49.16                 | 4.40         | Average | 100               | 26                   |
| 4   | 5150.00      | 68.50                       | 74.00           | -5.50        | 64.10                 | 4.40         | Peak    | 100               | 26                   |
| 5 * | 5180.00      | 109.47                      |                 |              | 105.03                | 4.44         | Average | 100               | 207                  |
| 6 * | 5180.00      | 121.96                      |                 |              | 117.52                | 4.44         | Peak    | 100               | 207                  |
| 7   | 6906.00      | 62.28                       | 68.20           | -5.92        | 54.54                 | 7.74         | Peak    | 246               | 337                  |
| 8   | 10360.00     | 55.41                       | 68.20           | -12.79       | 41.21                 | 14.20        | Peak    | 100               | 164                  |
| 9   | 15540.00     | 43.65                       | 54.00           | -10.35       | 28.54                 | 15.11        | Average | 100               | 92                   |
| 10  | 15540.00     | 56.73                       | 74.00           | -17.27       | 41.62                 | 15.11        | Peak    | 100               | 92                   |

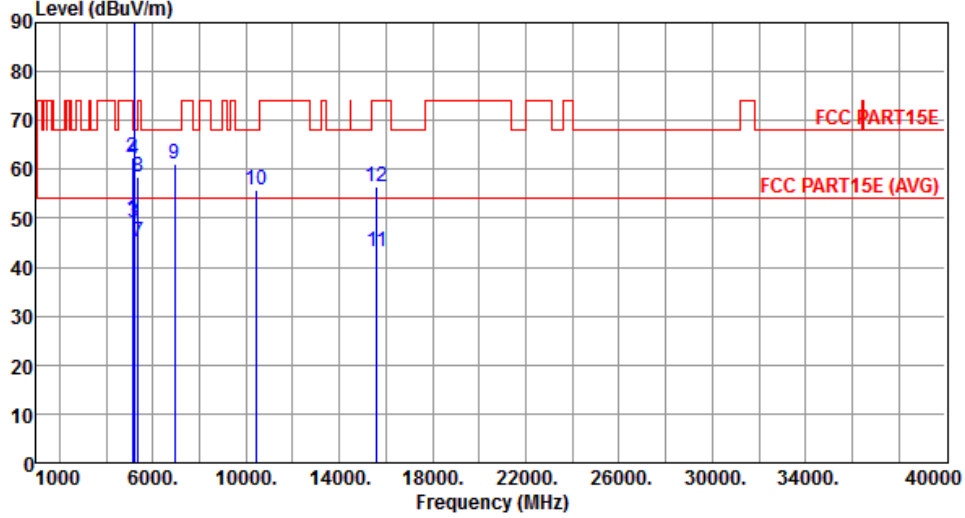
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
\*Factor includes antenna factor , cable loss and amplifier gain

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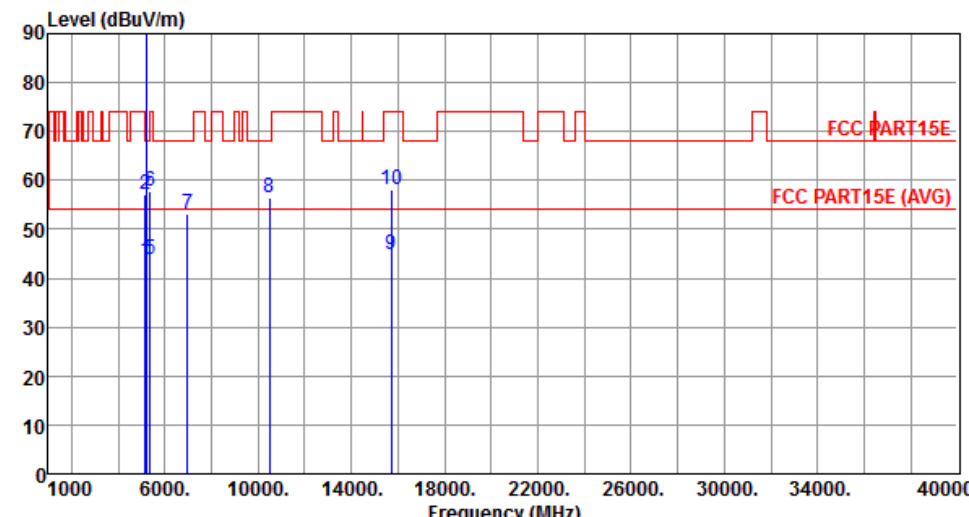
|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | 11a      | Test Freq. (MHz) | 5200 |
| Polarization | Vertical |                  |      |

|     | 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   | 5122.00      | 49.74                       | 54.00           | -4.26        | 45.39                 | 4.35         | Average | 100               | 342                  |
| 2   | 5122.00      | 62.50                       | 74.00           | -11.50       | 58.15                 | 4.35         | Peak    | 100               | 342                  |
| 3   | 5150.00      | 49.15                       | 54.00           | -4.85        | 44.75                 | 4.40         | Average | 100               | 126                  |
| 4   | 5150.00      | 62.15                       | 74.00           | -11.85       | 57.75                 | 4.40         | Peak    | 100               | 126                  |
| 5 * | 5200.00      | 110.71                      |                 |              | 106.23                | 4.48         | Average | 100               | 342                  |
| 6 * | 5200.00      | 123.20                      |                 |              | 118.72                | 4.48         | Peak    | 100               | 342                  |
| 7   | 5350.00      | 45.13                       | 54.00           | -8.87        | 40.49                 | 4.64         | Average | 100               | 266                  |
| 8   | 5350.00      | 58.40                       | 74.00           | -15.60       | 53.76                 | 4.64         | Peak    | 100               | 266                  |
| 9   | 6933.00      | 60.97                       | 68.20           | -7.23        | 53.20                 | 7.77         | Peak    | 242               | 337                  |
| 10  | 10400.00     | 55.96                       | 68.20           | -12.24       | 41.68                 | 14.28        | Peak    | 100               | 125                  |
| 11  | 15600.00     | 43.03                       | 54.00           | -10.97       | 28.01                 | 15.02        | Average | 100               | 239                  |
| 12  | 15600.00     | 56.39                       | 74.00           | -17.61       | 41.37                 | 15.02        | Peak    | 100               | 239                  |

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

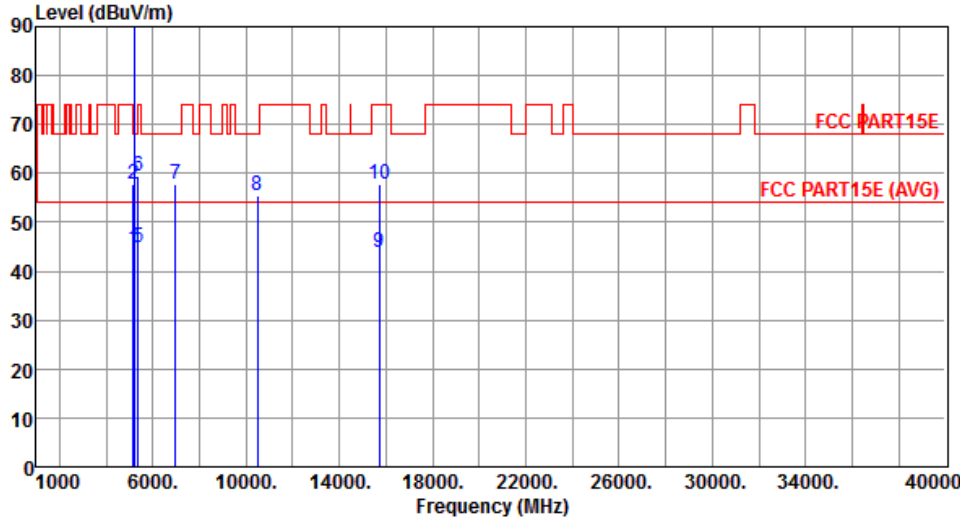
|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | 11a        | Test Freq. (MHz) | 5240 |
| Polarization | Horizontal |                  |      |

|     | 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      | 43.40                       | 54.00           | -10.60       | 39.00                 | 4.40         | Average | 100               | 340                  |
| 2   | 5150.00      | 57.04                       | 74.00           | -16.96       | 52.64                 | 4.40         | Peak    | 100               | 340                  |
| 3 * | 5240.00      | 103.74                      |                 |              | 99.22                 | 4.52         | Average | 100               | 340                  |
| 4 * | 5240.00      | 115.51                      |                 |              | 110.99                | 4.52         | Peak    | 100               | 340                  |
| 5   | 5350.00      | 43.80                       | 54.00           | -10.20       | 39.16                 | 4.64         | Average | 100               | 340                  |
| 6   | 5350.00      | 57.77                       | 74.00           | -16.23       | 53.13                 | 4.64         | Peak    | 100               | 340                  |
| 7   | 6986.00      | 53.17                       | 68.20           | -15.03       | 45.33                 | 7.84         | Peak    | 235               | 25                   |
| 8   | 10480.00     | 56.49                       | 68.20           | -11.71       | 42.06                 | 14.43        | Peak    | 100               | 65                   |
| 9   | 15720.00     | 44.99                       | 54.00           | -9.01        | 30.12                 | 14.87        | Average | 100               | 299                  |
| 10  | 15720.00     | 58.25                       | 74.00           | -15.75       | 43.38                 | 14.87        | Peak    | 100               | 299                  |

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) | 5240 |
| Polarization | Vertical |                  |      |

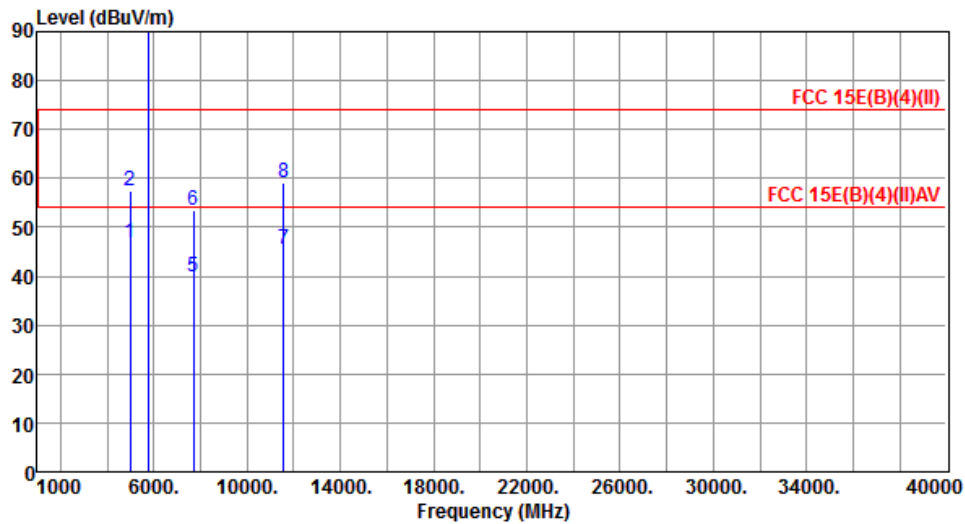
|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5150.00      | 44.65                       | 54.00           | -9.35        | 40.25                 | 4.40         | Average | 146               | 129                  |
| 2   | 5150.00      | 57.65                       | 74.00           | -16.35       | 53.25                 | 4.40         | Peak    | 146               | 129                  |
| 3 * | 5240.00      | 110.77                      |                 |              | 106.25                | 4.52         | Average | 146               | 129                  |
| 4 * | 5240.00      | 123.30                      |                 |              | 118.78                | 4.52         | Peak    | 146               | 129                  |
| 5   | 5350.00      | 44.86                       | 54.00           | -9.14        | 40.22                 | 4.64         | Average | 146               | 129                  |
| 6   | 5350.00      | 59.45                       | 74.00           | -14.55       | 54.81                 | 4.64         | Peak    | 146               | 129                  |
| 7   | 6986.00      | 57.81                       | 68.20           | -10.39       | 49.97                 | 7.84         | Peak    | 253               | 336                  |
| 8   | 10480.00     | 55.37                       | 68.20           | -12.83       | 40.94                 | 14.43        | Peak    | 100               | 241                  |
| 9   | 15720.00     | 43.99                       | 54.00           | -10.01       | 29.12                 | 14.87        | Average | 100               | 186                  |
| 10  | 15720.00     | 57.71                       | 74.00           | -16.29       | 42.84                 | 14.87        | Peak    | 100               | 186                  |

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   | 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   | 5000.00      | 46.70                       | 54.00           | -7.30        | 42.53                 | 4.17         | Average | 288               | 215                  |
| 2   | 5000.00      | 57.46                       | 74.00           | -16.54       | 53.29                 | 4.17         | Peak    | 288               | 215                  |
| 3 * | 5785.00      | 101.72                      |                 |              | 96.53                 | 5.19         | Average | 111               | 133                  |
| 4 * | 5785.00      | 114.30                      |                 |              | 109.11                | 5.19         | Peak    | 111               | 133                  |
| 5   | 7713.33      | 39.96                       | 54.00           | -14.04       | 31.22                 | 8.74         | Average | 313               | 131                  |
| 6   | 7713.33      | 53.63                       | 74.00           | -20.37       | 44.89                 | 8.74         | Peak    | 313               | 131                  |
| 7   | 11570.00     | 45.55                       | 54.00           | -8.45        | 30.22                 | 15.33        | Average | 323               | 351                  |
| 8   | 11570.00     | 58.99                       | 74.00           | -15.01       | 43.66                 | 15.33        | Peak    | 323               | 351                  |

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

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

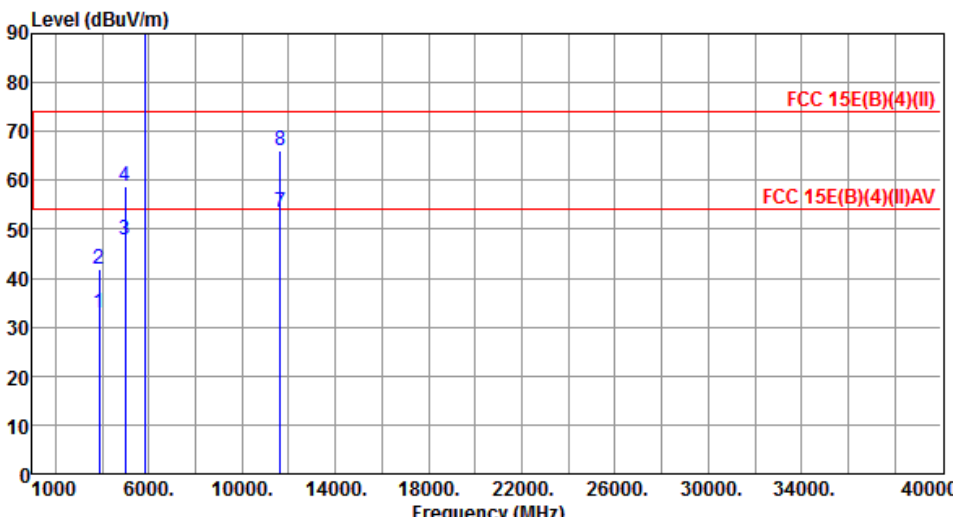
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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

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|            |                  |      |

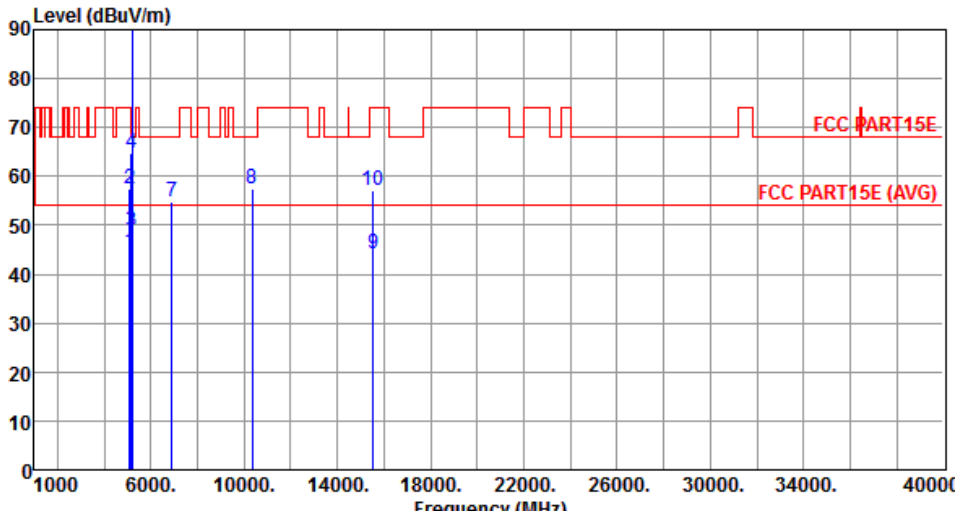
|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | 11a      | Test Freq. (MHz) | 5825 |
| Polarization | Vertical |                  |      |

|     | 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   | 3883.33      | 32.73                       | 54.00           | -21.27       | 31.59                 | 1.14         | Average | 188               | 265                  |
| 2   | 3883.33      | 41.73                       | 74.00           | -32.27       | 40.59                 | 1.14         | Peak    | 188               | 265                  |
| 3   | 5000.00      | 47.76                       | 54.00           | -6.24        | 43.59                 | 4.17         | Average | 226               | 355                  |
| 4   | 5000.00      | 58.72                       | 74.00           | -15.28       | 54.55                 | 4.17         | Peak    | 226               | 355                  |
| 5 * | 5825.00      | 111.44                      |                 |              | 106.20                | 5.24         | Average | 335               | 63                   |
| 6 * | 5825.00      | 123.96                      |                 |              | 118.72                | 5.24         | Peak    | 335               | 63                   |
| 7   | 11650.00     | 53.53                       | 54.00           | -0.47        | 38.44                 | 15.09        | Average | 362               | 299                  |
| 8   | 11650.00     | 66.24                       | 74.00           | -7.76        | 51.15                 | 15.09        | Peak    | 362               | 299                  |

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 |                  |        |        |            |        |         |      |       |
| <div></div> |            |                  |        |        |            |        |         |      |       |
|                                                                                                | Freq.      | Emission level   | Limit  | Margin | SA reading | Factor | Remark  | ANT  | Turn  |
|                                                                                                | MHz        | dBuV/m           | dBuV/m | dB     | dBuV       | dB     |         | High | Table |
|                                                                                                |            |                  |        |        |            |        |         | cm   | deg   |
| 1                                                                                              | 5103.00    | 44.51            | 54.00  | -9.49  | 40.18      | 4.33   | Average | 240  | 357   |
| 2                                                                                              | 5103.00    | 57.45            | 74.00  | -16.55 | 53.12      | 4.33   | Peak    | 240  | 357   |
| 3                                                                                              | 5150.00    | 48.88            | 54.00  | -5.12  | 44.48      | 4.40   | Average | 240  | 357   |
| 4                                                                                              | 5150.00    | 64.89            | 74.00  | -9.11  | 60.49      | 4.40   | Peak    | 240  | 357   |
| 5 *                                                                                            | 5180.00    | 103.43           |        |        | 98.99      | 4.44   | Average | 240  | 357   |
| 6 *                                                                                            | 5180.00    | 115.67           |        |        | 111.23     | 4.44   | Peak    | 240  | 357   |
| 7                                                                                              | 6906.00    | 54.96            | 68.20  | -13.24 | 47.22      | 7.74   | Peak    | 100  | 23    |
| 8                                                                                              | 10360.00   | 57.45            | 68.20  | -10.75 | 43.25      | 14.20  | Peak    | 100  | 55    |
| 9                                                                                              | 15540.00   | 44.25            | 54.00  | -9.75  | 29.14      | 15.11  | Average | 100  | 192   |
| 10                                                                                             | 15540.00   | 56.98            | 74.00  | -17.02 | 41.87      | 15.11  | Peak    | 100  | 192   |

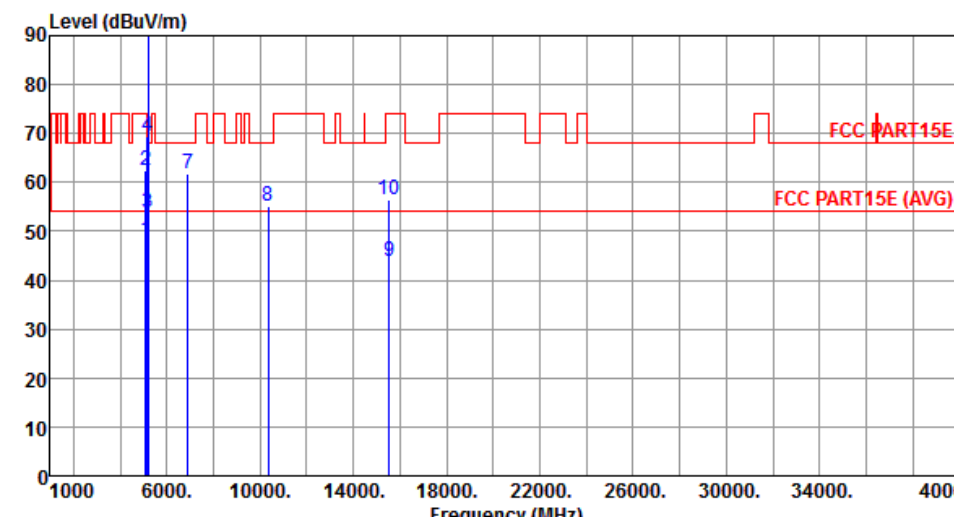
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor\* (dB)

\*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

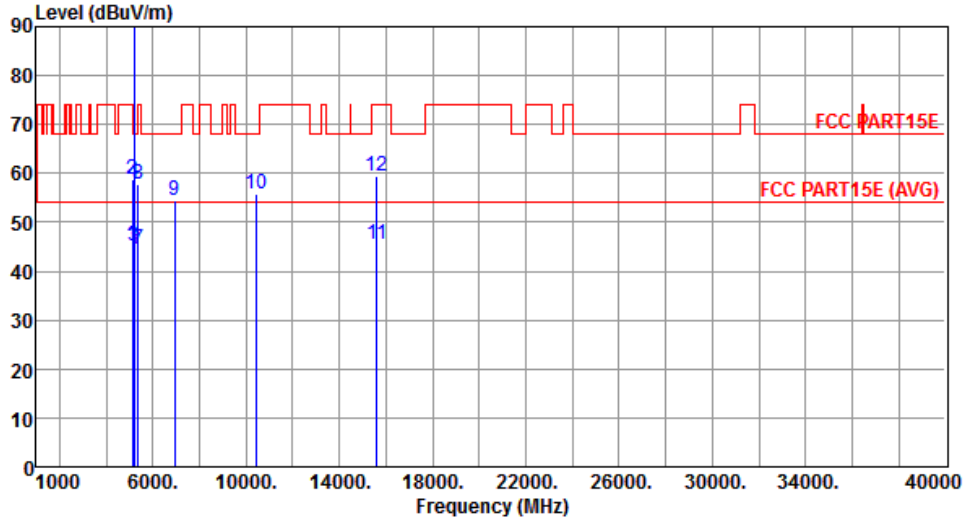
|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz) | 5180 |
| Polarization | Vertical |                  |      |



|     | 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   | 5103.00      | 48.21                       | 54.00           | -5.79        | 43.88                 | 4.33         | Average | 100               | 206                  |
| 2   | 5103.00      | 62.37                       | 74.00           | -11.63       | 58.04                 | 4.33         | Peak    | 100               | 206                  |
| 3   | 5150.00      | 53.73                       | 54.00           | -0.27        | 49.33                 | 4.40         | Average | 100               | 26                   |
| 4   | 5150.00      | 69.50                       | 74.00           | -4.50        | 65.10                 | 4.40         | Peak    | 100               | 26                   |
| 5 * | 5180.00      | 110.20                      |                 |              | 105.76                | 4.44         | Average | 100               | 206                  |
| 6 * | 5180.00      | 121.83                      |                 |              | 117.39                | 4.44         | Peak    | 100               | 206                  |
| 7   | 6906.00      | 61.80                       | 68.20           | -6.40        | 54.06                 | 7.74         | Peak    | 247               | 336                  |
| 8   | 10360.00     | 55.13                       | 68.20           | -13.07       | 40.93                 | 14.20        | Peak    | 100               | 214                  |
| 9   | 15540.00     | 43.68                       | 54.00           | -10.32       | 28.57                 | 15.11        | Average | 100               | 148                  |
| 10  | 15540.00     | 56.50                       | 74.00           | -17.50       | 41.39                 | 15.11        | Peak    | 100               | 148                  |

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) | 5200 |
| Polarization | Horizontal |                  |      |

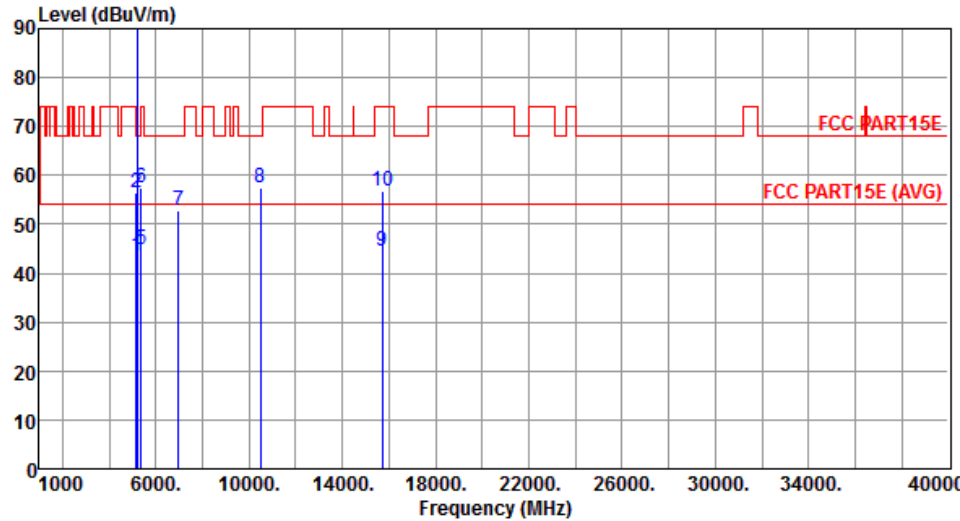
  


|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5122.00      | 45.17                       | 54.00           | -8.83        | 40.82                 | 4.35         | Average | 133               | 348                  |
| 2   | 5122.00      | 58.63                       | 74.00           | -15.37       | 54.28                 | 4.35         | Peak    | 133               | 348                  |
| 3   | 5150.00      | 45.10                       | 54.00           | -8.90        | 40.70                 | 4.40         | Average | 133               | 342                  |
| 4   | 5150.00      | 58.05                       | 74.00           | -15.95       | 53.65                 | 4.40         | Peak    | 133               | 342                  |
| 5 * | 5200.00      | 103.85                      |                 |              | 99.37                 | 4.48         | Average | 133               | 342                  |
| 6 * | 5200.00      | 115.21                      |                 |              | 110.73                | 4.48         | Peak    | 133               | 342                  |
| 7   | 5350.00      | 44.67                       | 54.00           | -9.33        | 40.03                 | 4.64         | Average | 133               | 342                  |
| 8   | 5350.00      | 57.91                       | 74.00           | -16.09       | 53.27                 | 4.64         | Peak    | 133               | 342                  |
| 9   | 6933.00      | 54.45                       | 68.20           | -13.75       | 46.68                 | 7.77         | Peak    | 228               | 25                   |
| 10  | 10400.00     | 55.80                       | 68.20           | -12.40       | 41.52                 | 14.28        | Peak    | 100               | 289                  |
| 11  | 15600.00     | 45.59                       | 54.00           | -8.41        | 30.57                 | 15.02        | Average | 100               | 297                  |
| 12  | 15600.00     | 59.31                       | 74.00           | -14.69       | 44.29                 | 15.02        | Peak    | 100               | 297                  |

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) | 5200 |
| 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) | 5240 |
| Polarization | Horizontal |                  |      |



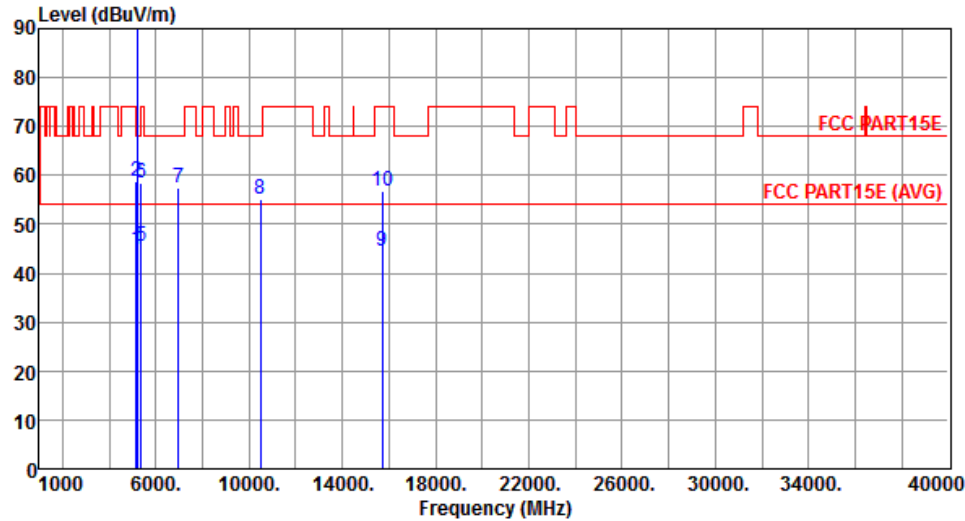
|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5150.00      | 43.35                       | 54.00           | -10.65       | 38.95                 | 4.40         | Average | 152               | 342                  |
| 2   | 5150.00      | 56.53                       | 74.00           | -17.47       | 52.13                 | 4.40         | Peak    | 152               | 342                  |
| 3 * | 5240.00      | 103.85                      |                 |              | 99.33                 | 4.52         | Average | 152               | 342                  |
| 4 * | 5240.00      | 115.14                      |                 |              | 110.62                | 4.52         | Peak    | 152               | 342                  |
| 5   | 5350.00      | 44.98                       | 54.00           | -9.02        | 40.34                 | 4.64         | Average | 152               | 342                  |
| 6   | 5350.00      | 57.57                       | 74.00           | -16.43       | 52.93                 | 4.64         | Peak    | 152               | 342                  |
| 7   | 6986.00      | 52.78                       | 68.20           | -15.42       | 44.94                 | 7.84         | Peak    | 235               | 24                   |
| 8   | 10480.00     | 57.47                       | 68.20           | -10.73       | 43.04                 | 14.43        | Peak    | 121               | 60                   |
| 9   | 15720.00     | 44.66                       | 54.00           | -9.34        | 29.79                 | 14.87        | Average | 100               | 325                  |
| 10  | 15720.00     | 56.66                       | 74.00           | -17.34       | 41.79                 | 14.87        | Peak    | 100               | 325                  |

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) | 5240 |
| Polarization | Vertical |                  |      |



The graph displays the emission level in dBuV/m against frequency in MHz. The y-axis ranges from 0 to 90 dBuV/m, and the x-axis ranges from 1000 to 40000 MHz. A red line represents the FCC PART15E limit, and a blue line represents the test results. The test results show a peak at 5240 MHz, which is above the limit. The graph also shows the FCC PART15E (AVG) limit.

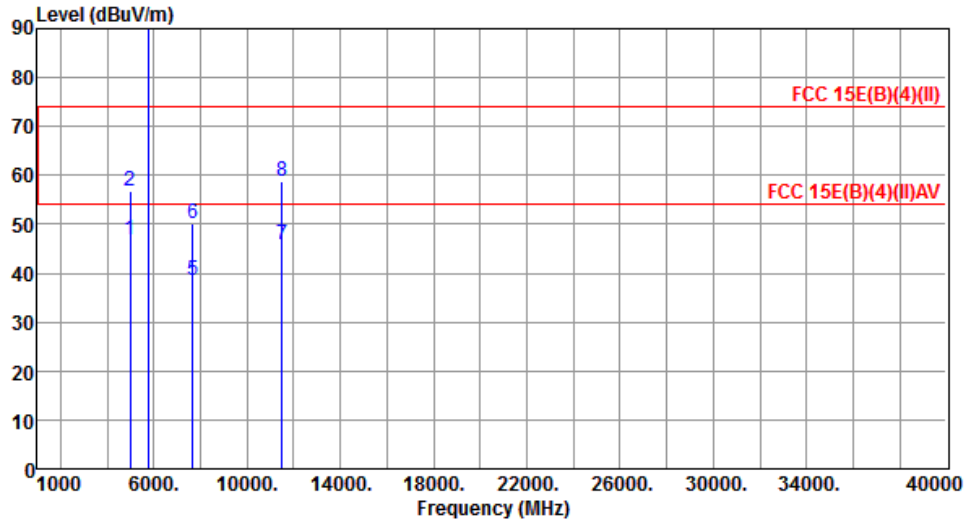
|     | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5150.00      | 44.70                       | 54.00           | -9.30        | 40.30                 | 4.40         | Average | 151               | 127                  |
| 2   | 5150.00      | 58.63                       | 74.00           | -15.37       | 54.23                 | 4.40         | Peak    | 151               | 127                  |
| 3 * | 5240.00      | 111.88                      |                 |              | 107.36                | 4.52         | Average | 101               | 205                  |
| 4 * | 5240.00      | 123.74                      |                 |              | 119.22                | 4.52         | Peak    | 101               | 205                  |
| 5   | 5350.00      | 45.59                       | 54.00           | -8.41        | 40.95                 | 4.64         | Average | 101               | 205                  |
| 6   | 5350.00      | 58.52                       | 74.00           | -15.48       | 53.88                 | 4.64         | Peak    | 101               | 205                  |
| 7   | 6986.00      | 57.52                       | 68.20           | -10.68       | 49.68                 | 7.84         | Peak    | 247               | 336                  |
| 8   | 10480.00     | 55.18                       | 68.20           | -13.02       | 40.75                 | 14.43        | Peak    | 100               | 311                  |
| 9   | 15720.00     | 44.36                       | 54.00           | -9.64        | 29.49                 | 14.87        | Average | 100               | 186                  |
| 10  | 15720.00     | 56.75                       | 74.00           | -17.25       | 41.88                 | 14.87        | Peak    | 100               | 186                  |

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 | 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   | 5000.00      | 46.95                       | 54.00           | -7.05        | 42.78                 | 4.17         | Average | 277               | 221                  |
| 2   | 5000.00      | 56.72                       | 74.00           | -17.28       | 52.55                 | 4.17         | Peak    | 277               | 211                  |
| 3 * | 5745.00      | 101.50                      |                 |              | 96.36                 | 5.14         | Average | 118               | 153                  |
| 4 * | 5745.00      | 113.40                      |                 |              | 108.26                | 5.14         | Peak    | 118               | 153                  |
| 5   | 7660.00      | 38.66                       | 54.00           | -15.34       | 29.87                 | 8.79         | Average | 333               | 143                  |
| 6   | 7660.00      | 50.11                       | 74.00           | -23.89       | 41.32                 | 8.79         | Peak    | 333               | 143                  |
| 7   | 11490.00     | 45.77                       | 54.00           | -8.23        | 30.24                 | 15.53        | Average | 322               | 344                  |
| 8   | 11490.00     | 58.74                       | 74.00           | -15.26       | 43.21                 | 15.53        | Peak    | 322               | 344                  |

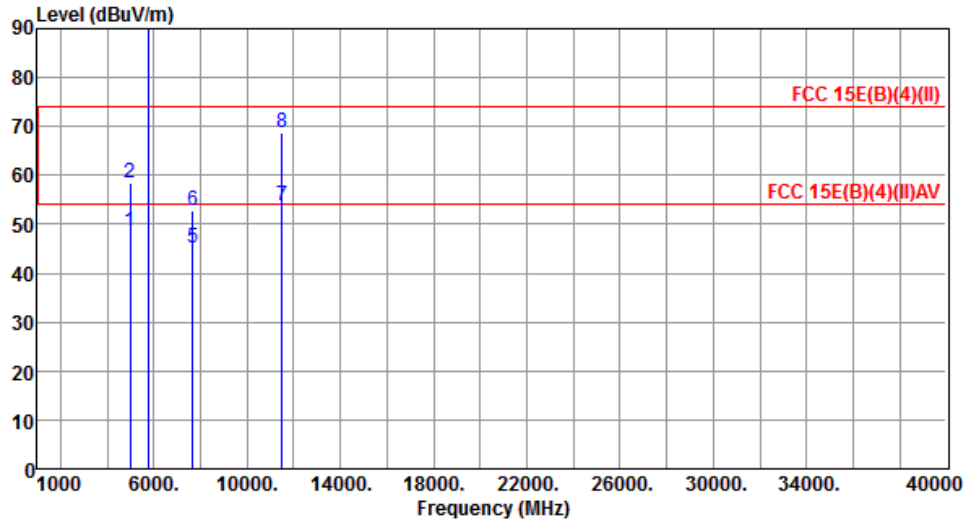
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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   | 5000.00      | 48.35                       | 54.00           | -5.65        | 44.18                 | 4.17         | Average | 222               | 333                  |
| 2   | 5000.00      | 58.52                       | 74.00           | -15.48       | 54.35                 | 4.17         | Peak    | 222               | 333                  |
| 3 * | 5745.00      | 111.59                      |                 |              | 106.45                | 5.14         | Average | 360               | 81                   |
| 4 * | 5745.00      | 123.16                      |                 |              | 118.02                | 5.14         | Peak    | 360               | 81                   |
| 5   | 7660.00      | 45.11                       | 54.00           | -8.89        | 36.32                 | 8.79         | Average | 233               | 111                  |
| 6   | 7660.00      | 52.88                       | 74.00           | -21.12       | 44.09                 | 8.79         | Peak    | 233               | 111                  |
| 7   | 11490.00     | 53.70                       | 54.00           | -0.30        | 38.17                 | 15.53        | Average | 355               | 299                  |
| 8   | 11490.00     | 68.75                       | 74.00           | -5.25        | 53.22                 | 15.53        | Peak    | 355               | 299                  |

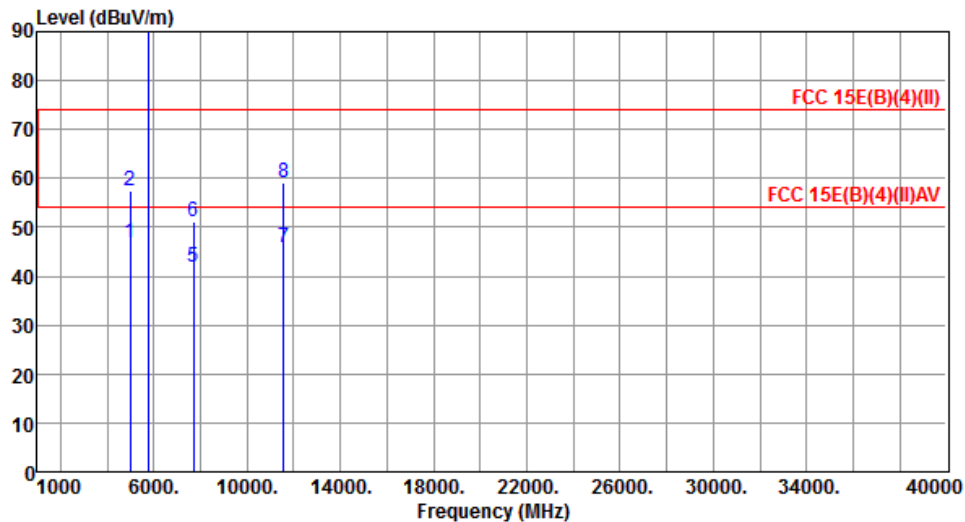
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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) | 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   | 5000.00      | 46.82                       | 54.00           | -7.18        | 42.65                 | 4.17         | Average | 166               | 321                  |
| 2   | 5000.00      | 57.46                       | 74.00           | -16.54       | 53.29                 | 4.17         | Peak    | 166               | 321                  |
| 3 * | 5785.00      | 102.21                      |                 |              | 97.02                 | 5.19         | Average | 121               | 135                  |
| 4 * | 5785.00      | 113.43                      |                 |              | 108.24                | 5.19         | Peak    | 121               | 135                  |
| 5   | 7713.33      | 41.89                       | 54.00           | -12.11       | 33.15                 | 8.74         | Average | 266               | 194                  |
| 6   | 7713.33      | 51.27                       | 74.00           | -22.73       | 42.53                 | 8.74         | Peak    | 266               | 194                  |
| 7   | 11570.00     | 45.68                       | 54.00           | -8.32        | 30.35                 | 15.33        | Average | 322               | 343                  |
| 8   | 11570.00     | 58.96                       | 74.00           | -15.04       | 43.63                 | 15.33        | Peak    | 322               | 343                  |

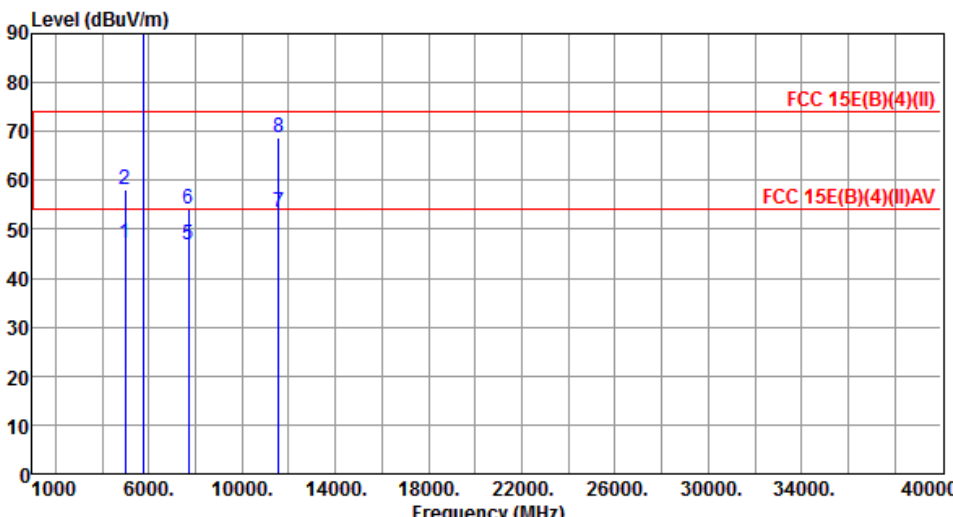
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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

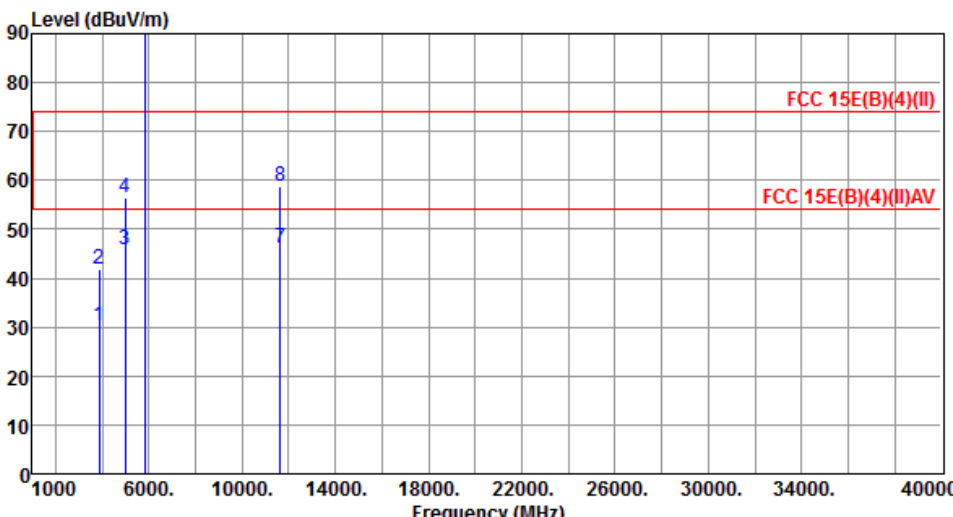
|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz) | 5785 |
| Polarization | Vertical |                  |      |

|     | 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   | 5000.00      | 47.28                       | 54.00           | -6.72        | 43.11                 | 4.17         | Average | 225               | 317                  |
| 2   | 5000.00      | 58.24                       | 74.00           | -15.76       | 54.07                 | 4.17         | Peak    | 225               | 317                  |
| 3 * | 5785.00      | 112.57                      |                 |              | 107.38                | 5.19         | Average | 355               | 81                   |
| 4 * | 5785.00      | 124.18                      |                 |              | 118.99                | 5.19         | Peak    | 355               | 81                   |
| 5   | 7713.33      | 46.72                       | 54.00           | -7.28        | 37.98                 | 8.74         | Average | 266               | 343                  |
| 6   | 7713.33      | 54.01                       | 74.00           | -19.99       | 45.27                 | 8.74         | Peak    | 266               | 343                  |
| 7   | 11570.00     | 53.57                       | 54.00           | -0.43        | 38.24                 | 15.33        | Average | 359               | 302                  |
| 8   | 11570.00     | 68.88                       | 74.00           | -5.12        | 53.55                 | 15.33        | Peak    | 359               | 302                  |

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   | 3883.33      | 30.20                       | 54.00           | -23.80       | 29.06                 | 1.14         | Average | 188               | 343                  |
| 2   | 3883.33      | 41.73                       | 74.00           | -32.27       | 40.59                 | 1.14         | Peak    | 188               | 343                  |
| 3   | 5000.00      | 45.93                       | 54.00           | -8.07        | 41.76                 | 4.17         | Average | 299               | 224                  |
| 4   | 5000.00      | 56.54                       | 74.00           | -17.46       | 52.37                 | 4.17         | Peak    | 299               | 224                  |
| 5 * | 5825.00      | 101.80                      |                 |              | 96.56                 | 5.24         | Average | 118               | 152                  |
| 6 * | 5825.00      | 113.97                      |                 |              | 108.73                | 5.24         | Peak    | 118               | 152                  |
| 7   | 11650.00     | 46.31                       | 54.00           | -7.69        | 31.22                 | 15.09        | Average | 313               | 337                  |
| 8   | 11650.00     | 58.62                       | 74.00           | -15.38       | 43.53                 | 15.09        | Peak    | 313               | 337                  |

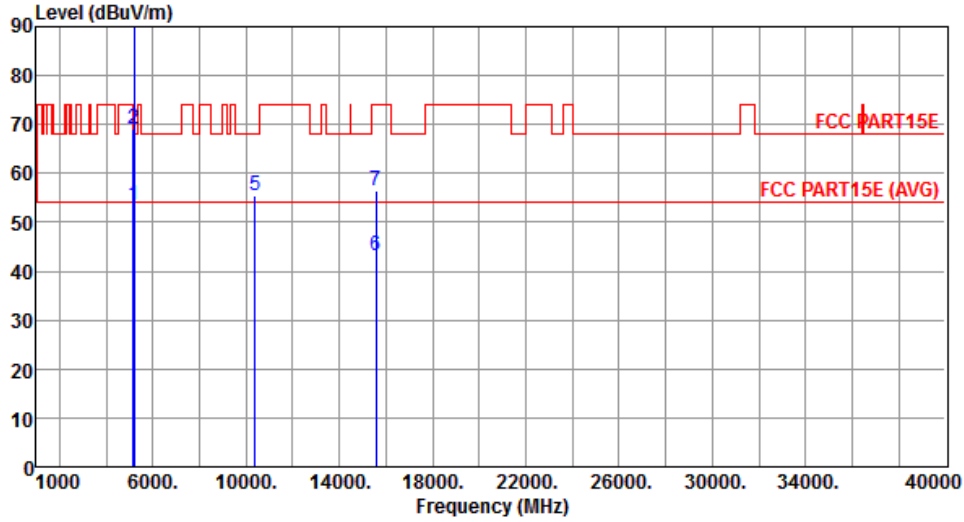
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).  
 Note 3: "\*" is Peak / Average value of fundamental frequency

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| Modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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(MHz) | 5825 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Vertical |                  |      |
| <div><div><div>Level 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### 3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

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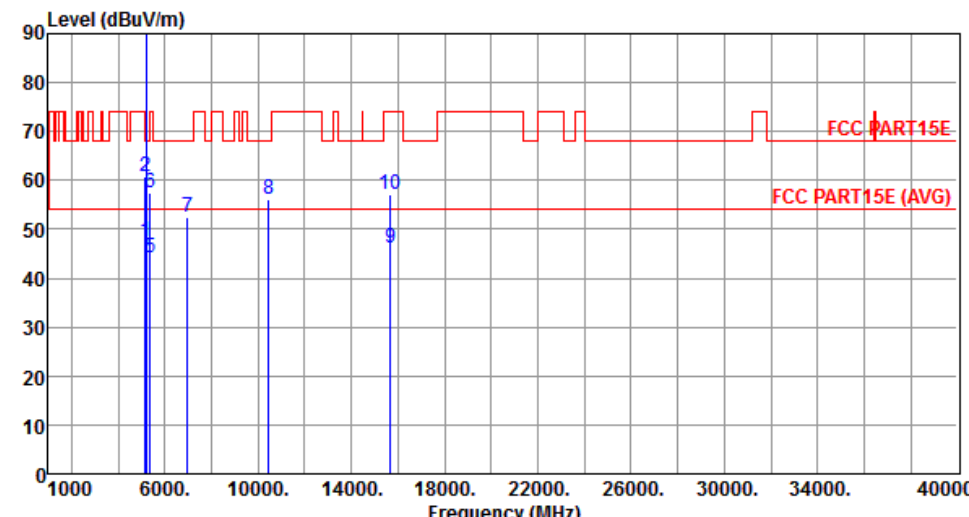
|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | VHT40    | Test Freq. (MHz) | 5190 |
| Polarization | Vertical |                  |      |

|     | 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      | 53.61                       | 54.00           | -0.39        | 49.21                 | 4.40         | Average | 100               | 172                  |
| 2   | 5150.00      | 69.00                       | 74.00           | -5.00        | 64.60                 | 4.40         | Peak    | 100               | 172                  |
| 3 * | 5190.00      | 103.82                      |                 |              | 99.36                 | 4.46         | Average | 113               | 211                  |
| 4 * | 5190.00      | 115.29                      |                 |              | 110.83                | 4.46         | Peak    | 113               | 211                  |
| 5   | 10380.00     | 55.35                       | 68.20           | -12.85       | 41.10                 | 14.25        | Peak    | 222               | 165                  |
| 6   | 15570.00     | 43.29                       | 54.00           | -10.71       | 28.23                 | 15.06        | Average | 188               | 211                  |
| 7   | 15570.00     | 56.30                       | 74.00           | -17.70       | 41.24                 | 15.06        | Peak    | 188               | 211                  |

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

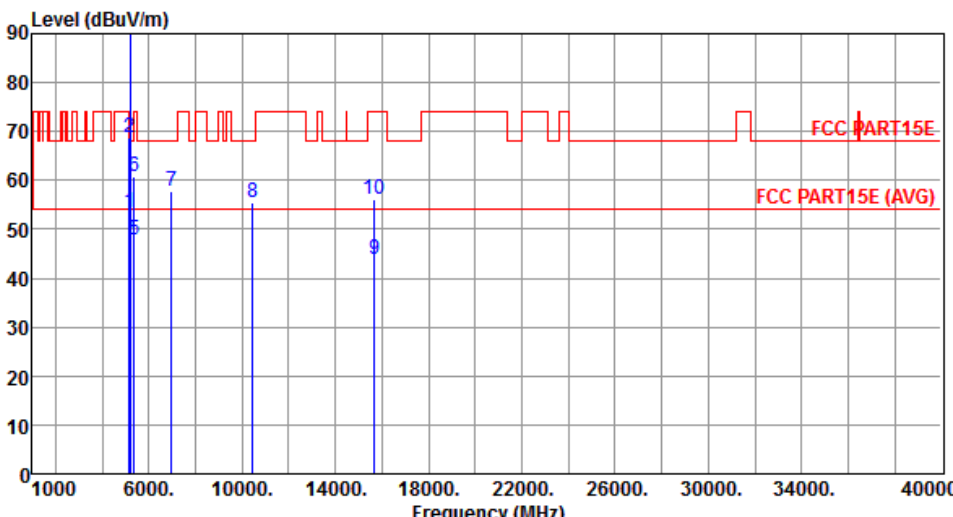
|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | VHT40      | Test Freq. (MHz) | 5230 |
| Polarization | Horizontal |                  |      |

|     | 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      | 47.64                       | 54.00           | -6.36        | 43.24                 | 4.40         | Average | 227               | 354                  |
| 2   | 5150.00      | 60.79                       | 74.00           | -13.21       | 56.39                 | 4.40         | Peak    | 227               | 354                  |
| 3 * | 5230.00      | 103.86                      |                 |              | 99.35                 | 4.51         | Average | 227               | 354                  |
| 4 * | 5230.00      | 115.29                      |                 |              | 110.78                | 4.51         | Peak    | 227               | 354                  |
| 5   | 5350.00      | 44.16                       | 54.00           | -9.84        | 39.52                 | 4.64         | Average | 227               | 354                  |
| 6   | 5350.00      | 57.51                       | 74.00           | -16.49       | 52.87                 | 4.64         | Peak    | 227               | 354                  |
| 7   | 6973.33      | 52.59                       | 68.20           | -15.61       | 44.76                 | 7.83         | Peak    | 208               | 345                  |
| 8   | 10460.00     | 56.22                       | 68.20           | -11.98       | 41.82                 | 14.40        | Peak    | 211               | 244                  |
| 9   | 15690.00     | 46.13                       | 54.00           | -7.87        | 31.22                 | 14.91        | Average | 208               | 12                   |
| 10  | 15690.00     | 57.26                       | 74.00           | -16.74       | 42.35                 | 14.91        | Peak    | 208               | 12                   |

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) | 5230 |
| Polarization | Vertical |                  |      |

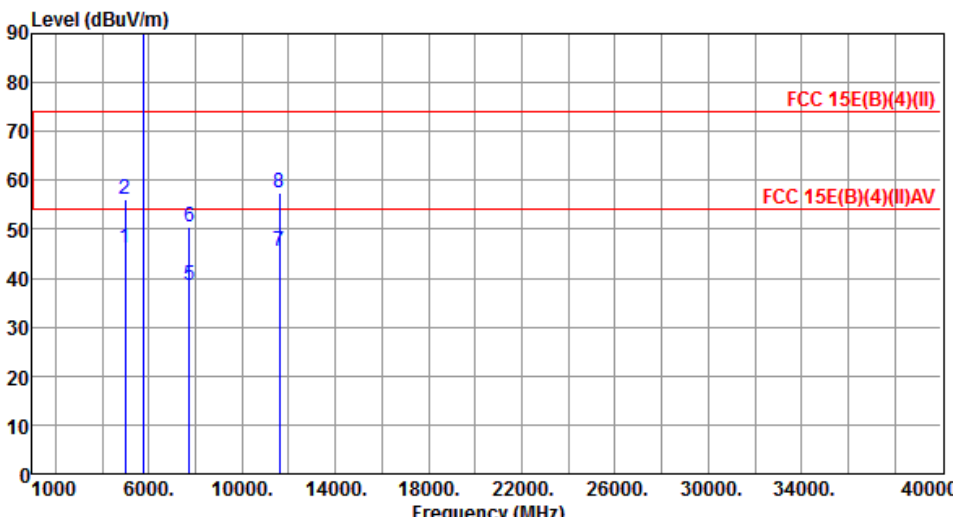
|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5150.00      | 53.62                       | 54.00           | -0.38        | 49.22                 | 4.40         | Average | 210               | 351                  |
| 2   | 5150.00      | 68.75                       | 74.00           | -5.25        | 64.35                 | 4.40         | Peak    | 210               | 351                  |
| 3 * | 5230.00      | 110.49                      |                 |              | 105.98                | 4.51         | Average | 210               | 351                  |
| 4 * | 5230.00      | 121.89                      |                 |              | 117.38                | 4.51         | Peak    | 210               | 351                  |
| 5   | 5350.00      | 47.94                       | 54.00           | -6.06        | 43.30                 | 4.64         | Average | 210               | 351                  |
| 6   | 5350.00      | 60.94                       | 74.00           | -13.06       | 56.30                 | 4.64         | Peak    | 210               | 351                  |
| 7   | 6973.33      | 57.79                       | 68.20           | -10.41       | 49.96                 | 7.83         | Peak    | 226               | 320                  |
| 8   | 10460.00     | 55.58                       | 68.20           | -12.62       | 41.18                 | 14.40        | Peak    | 188               | 22                   |
| 9   | 15690.00     | 43.79                       | 54.00           | -10.21       | 28.88                 | 14.91        | Average | 222               | 186                  |
| 10  | 15690.00     | 56.26                       | 74.00           | -17.74       | 41.35                 | 14.91        | Peak    | 222               | 186                  |

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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                                                                                                                                                                                | VHT40      | Test Freq. (MHz) | 5755 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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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) | 5795 |
| Polarization | Horizontal |                  |      |

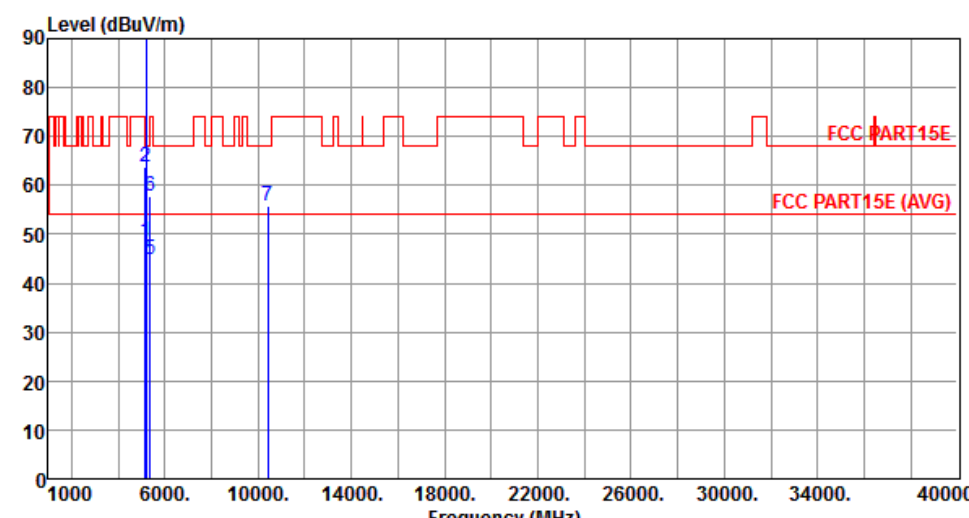
|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5000.00      | 46.21                       | 54.00           | -7.79        | 42.04                 | 4.17         | Average | 222               | 283                  |
| 2   | 5000.00      | 55.96                       | 74.00           | -18.04       | 51.79                 | 4.17         | Peak    | 222               | 283                  |
| 3 * | 5795.00      | 98.57                       |                 |              | 93.37                 | 5.20         | Average | 111               | 128                  |
| 4 * | 5795.00      | 110.38                      |                 |              | 105.18                | 5.20         | Peak    | 111               | 128                  |
| 5   | 7726.66      | 38.52                       | 54.00           | -15.48       | 29.80                 | 8.72         | Average | 322               | 151                  |
| 6   | 7726.66      | 50.62                       | 74.00           | -23.38       | 41.90                 | 8.72         | Peak    | 322               | 151                  |
| 7   | 11590.00     | 45.36                       | 54.00           | -8.64        | 30.09                 | 15.27        | Average | 311               | 334                  |
| 8   | 11590.00     | 57.45                       | 74.00           | -16.55       | 42.18                 | 15.27        | Peak    | 311               | 334                  |

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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                                                                                                                                                     | VHT40    | Test Freq. (MHz) | 5795 |
| 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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|          |                  |      |

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

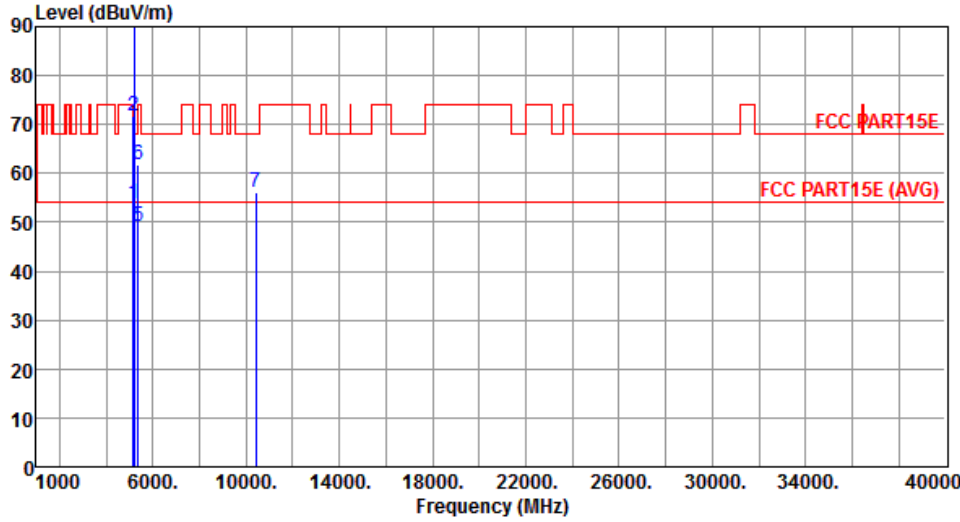
|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | VHT80      | Test Freq. (MHz) | 5210 |
| Polarization | Horizontal |                  |      |

|     | 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      | 48.49                       | 54.00           | -5.51        | 44.09                 | 4.40         | Average | 235               | 354                  |
| 2   | 5150.00      | 63.65                       | 74.00           | -10.35       | 59.25                 | 4.40         | Peak    | 235               | 354                  |
| 3 * | 5210.00      | 93.77                       |                 |              | 89.28                 | 4.49         | Average | 235               | 354                  |
| 4 * | 5210.00      | 103.65                      |                 |              | 99.16                 | 4.49         | Peak    | 235               | 354                  |
| 5   | 5350.00      | 44.84                       | 54.00           | -9.16        | 40.20                 | 4.64         | Average | 235               | 354                  |
| 6   | 5350.00      | 57.80                       | 74.00           | -16.20       | 53.16                 | 4.64         | Peak    | 235               | 354                  |
| 7   | 10420.00     | 55.64                       | 68.20           | -12.56       | 41.32                 | 14.32        | Peak    | 195               | 247                  |

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

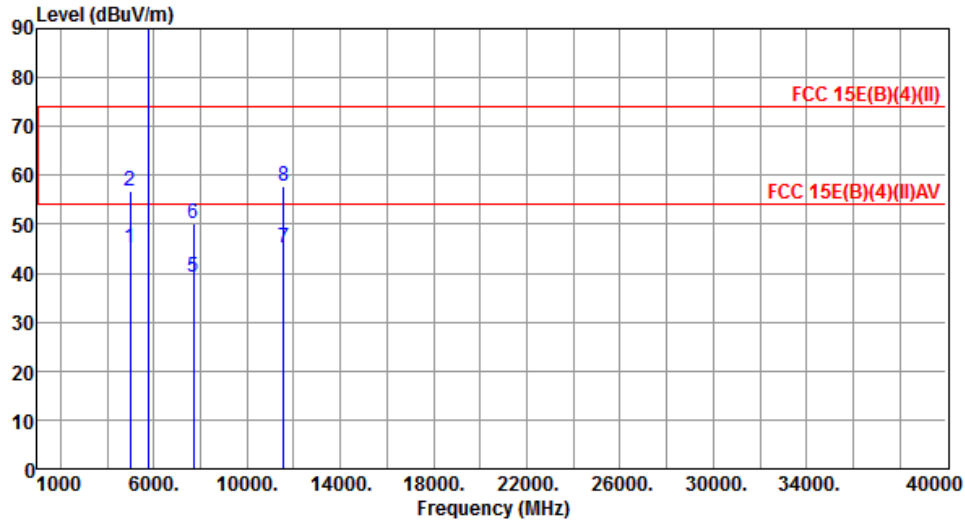
|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | VHT80    | Test Freq. (MHz) | 5210 |
| Polarization | Vertical |                  |      |

|     | 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      | 53.85                       | 54.00           | -0.15        | 49.45                 | 4.40         | Average | 100               | 172                  |
| 2   | 5150.00      | 71.88                       | 74.00           | -2.12        | 67.48                 | 4.40         | Peak    | 100               | 172                  |
| 3 * | 5210.00      | 99.60                       |                 |              | 95.11                 | 4.49         | Average | 124               | 209                  |
| 4 * | 5210.00      | 109.12                      |                 |              | 104.63                | 4.49         | Peak    | 124               | 209                  |
| 5   | 5350.00      | 49.24                       | 54.00           | -4.76        | 44.60                 | 4.64         | Average | 211               | 352                  |
| 6   | 5350.00      | 61.94                       | 74.00           | -12.06       | 57.30                 | 4.64         | Peak    | 211               | 352                  |
| 7   | 10420.00     | 55.97                       | 68.20           | -12.23       | 41.65                 | 14.32        | Peak    | 205               | 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

|              |            |                  |      |
|--------------|------------|------------------|------|
| 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   | 5000.00      | 45.13                       | 54.00           | -8.87        | 40.96                 | 4.17         | Average | 222               | 311                  |
| 2   | 5000.00      | 56.82                       | 74.00           | -17.18       | 52.65                 | 4.17         | Peak    | 222               | 311                  |
| 3 * | 5775.00      | 96.44                       |                 |              | 91.27                 | 5.17         | Average | 122               | 162                  |
| 4 * | 5775.00      | 106.54                      |                 |              | 101.37                | 5.17         | Peak    | 122               | 162                  |
| 5   | 7700.00      | 39.28                       | 54.00           | -14.72       | 30.53                 | 8.75         | Average | 315               | 143                  |
| 6   | 7700.00      | 50.02                       | 74.00           | -23.98       | 41.27                 | 8.75         | Peak    | 315               | 143                  |
| 7   | 11550.00     | 45.10                       | 54.00           | -8.90        | 29.70                 | 15.40        | Average | 313               | 342                  |
| 8   | 11550.00     | 57.66                       | 74.00           | -16.34       | 42.26                 | 15.40        | Peak    | 313               | 342                  |

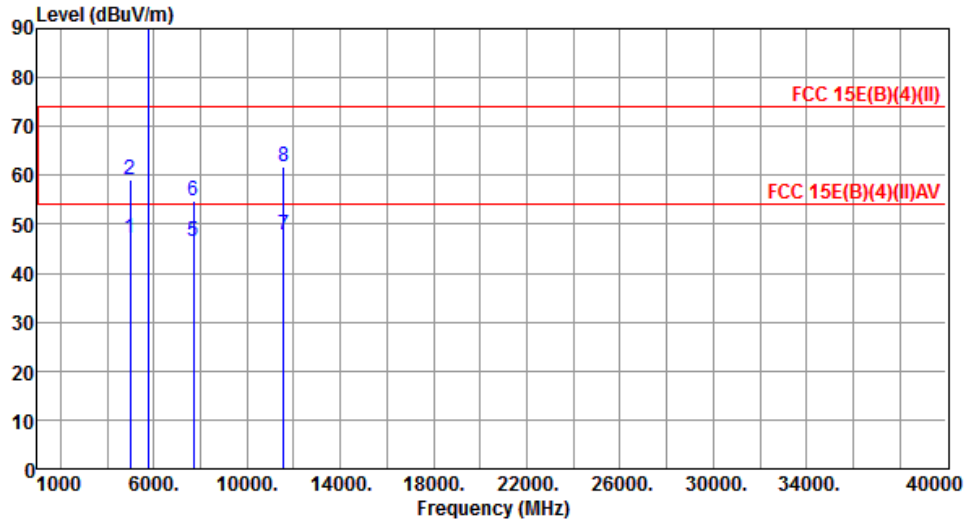
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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   | 5000.00      | 47.06                       | 54.00           | -6.94        | 42.89                 | 4.17         | Average | 265               | 343                  |
| 2   | 5000.00      | 58.95                       | 74.00           | -15.05       | 54.78                 | 4.17         | Peak    | 265               | 343                  |
| 3 * | 5775.00      | 106.28                      |                 |              | 101.11                | 5.17         | Average | 356               | 51                   |
| 4 * | 5775.00      | 116.23                      |                 |              | 111.06                | 5.17         | Peak    | 356               | 51                   |
| 5   | 7700.00      | 46.64                       | 54.00           | -7.36        | 37.89                 | 8.75         | Average | 214               | 303                  |
| 6   | 7700.00      | 54.82                       | 74.00           | -19.18       | 46.07                 | 8.75         | Peak    | 214               | 303                  |
| 7   | 11550.00     | 47.72                       | 54.00           | -6.28        | 32.32                 | 15.40        | Average | 356               | 302                  |
| 8   | 11550.00     | 61.72                       | 74.00           | -12.28       | 46.32                 | 15.40        | Peak    | 356               | 302                  |

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

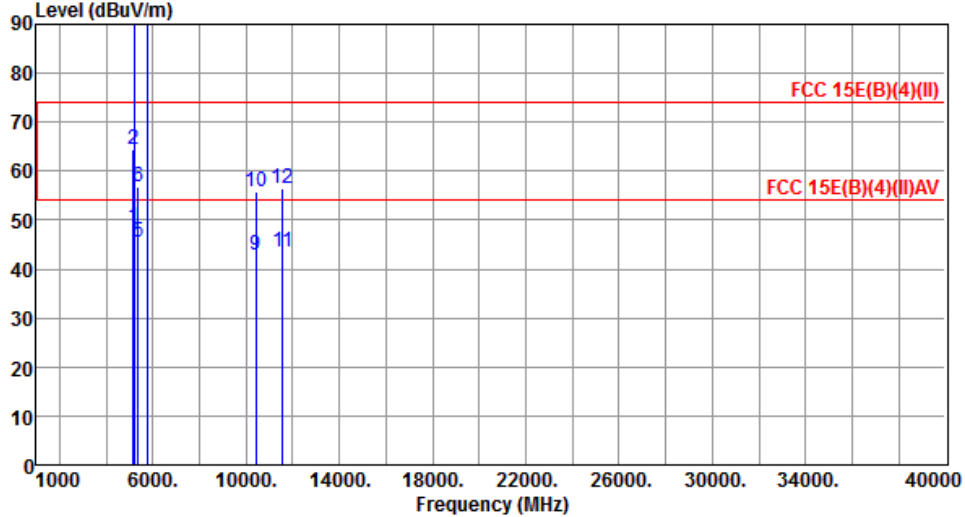
\*Factor includes antenna factor , cable loss and amplifier gain

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

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

### 3.5.9 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80+80

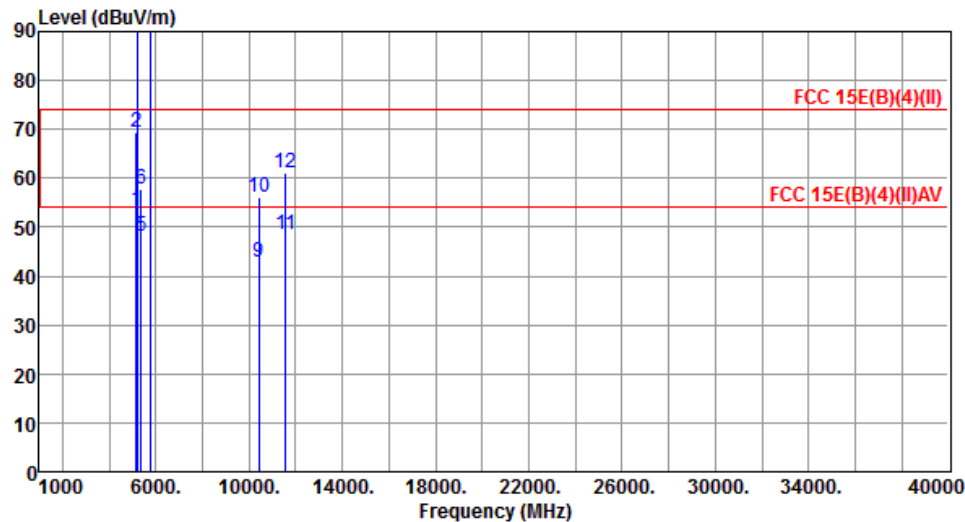
|              |            |                  |           |
|--------------|------------|------------------|-----------|
| Modulation   | VHT80+80   | Test Freq. (MHz) | 5210+5775 |
| Polarization | Horizontal |                  |           |

|     | 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   | 5150.00      | 48.41                       | 54.00           | -5.59        | 44.01                 | 4.40         | Average | 120               | 336                  |
| 2   | 5150.00      | 64.50                       | 74.00           | -9.50        | 60.10                 | 4.40         | Peak    | 120               | 336                  |
| 3 * | 5210.00      | 93.38                       |                 |              | 88.89                 | 4.49         | Average | 122               | 338                  |
| 4 * | 5210.00      | 102.44                      |                 |              | 97.95                 | 4.49         | Peak    | 122               | 338                  |
| 5   | 5350.00      | 45.59                       | 54.00           | -8.41        | 40.95                 | 4.64         | Average | 122               | 338                  |
| 6   | 5350.00      | 56.91                       | 74.00           | -17.09       | 52.27                 | 4.64         | Peak    | 122               | 338                  |
| 7 * | 5775.00      | 93.60                       |                 |              | 88.43                 | 5.17         | Average | 166               | 83                   |
| 8 * | 5775.00      | 103.48                      |                 |              | 98.31                 | 5.17         | Peak    | 166               | 83                   |
| 9   | 10420.00     | 42.94                       | 54.00           | -11.06       | 28.62                 | 14.32        | Average | 229               | 313                  |
| 10  | 10420.00     | 55.95                       | 74.00           | -18.05       | 41.63                 | 14.32        | Peak    | 229               | 313                  |
| 11  | 11550.00     | 43.42                       | 54.00           | -10.58       | 28.02                 | 15.40        | Average | 100               | 320                  |
| 12  | 11550.00     | 56.61                       | 74.00           | -17.39       | 41.21                 | 15.40        | Peak    | 100               | 320                  |

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+80 | Test Freq. (MHz) | 5210+5775 |
| Polarization | Vertical |                  |           |



The graph displays the emission level in dBuV/m against frequency in MHz. The y-axis ranges from 0 to 90 dBuV/m, and the x-axis ranges from 1000 to 40000 MHz. Two horizontal red lines represent FCC limits: FCC 15E(B)(4)(II) at approximately 74 dBuV/m and FCC 15E(B)(4)(II)AV at approximately 54 dBuV/m. Vertical blue lines represent test results for various frequencies, with labels 2, 5, 6, 9, 10, 11, and 12 indicating specific data points.

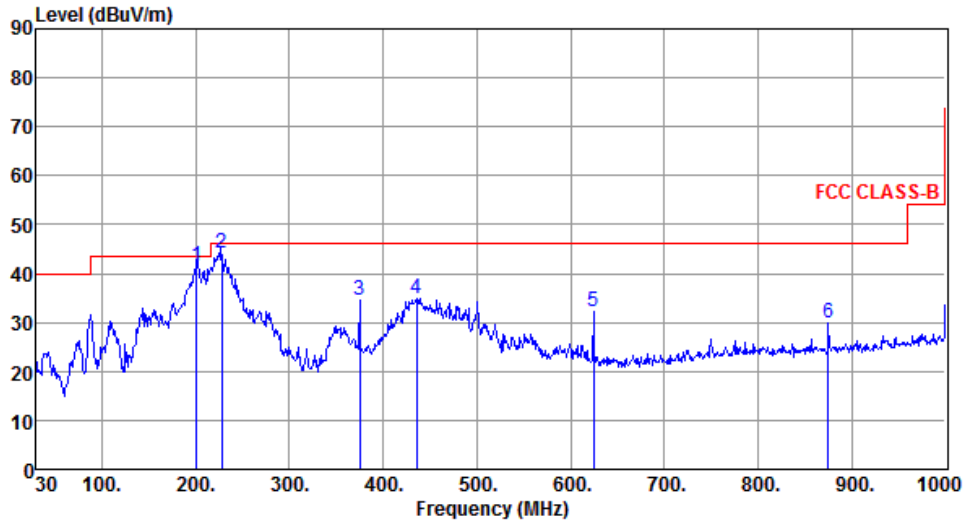
|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5150.00      | 53.56                       | 54.00           | -0.44        | 49.16                 | 4.40         | Average | 114               | 340                  |
| 2   | 5150.00      | 69.56                       | 74.00           | -4.44        | 65.16                 | 4.40         | Peak    | 114               | 340                  |
| 3 * | 5210.00      | 97.86                       |                 |              | 93.37                 | 4.49         | Average | 100               | 205                  |
| 4 * | 5210.00      | 107.92                      |                 |              | 103.43                | 4.49         | Peak    | 100               | 205                  |
| 5   | 5350.00      | 48.06                       | 54.00           | -5.94        | 43.42                 | 4.64         | Average | 100               | 348                  |
| 6   | 5350.00      | 57.87                       | 74.00           | -16.13       | 53.23                 | 4.64         | Peak    | 100               | 348                  |
| 7 * | 5775.00      | 103.35                      |                 |              | 98.18                 | 5.17         | Average | 163               | 309                  |
| 8 * | 5775.00      | 113.34                      |                 |              | 108.17                | 5.17         | Peak    | 163               | 309                  |
| 9   | 10420.00     | 42.98                       | 54.00           | -11.02       | 28.66                 | 14.32        | Average | 222               | 183                  |
| 10  | 10420.00     | 56.11                       | 74.00           | -17.89       | 41.79                 | 14.32        | Peak    | 222               | 183                  |
| 11  | 11550.00     | 48.38                       | 54.00           | -5.62        | 32.98                 | 15.40        | Average | 333               | 325                  |
| 12  | 11550.00     | 60.94                       | 74.00           | -13.06       | 45.54                 | 15.40        | Peak    | 333               | 325                  |

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

## Beamforming mode

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

|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | VHT40      | Test Freq. (MHz) | 5230 |
| Polarization | Horizontal |                  |      |

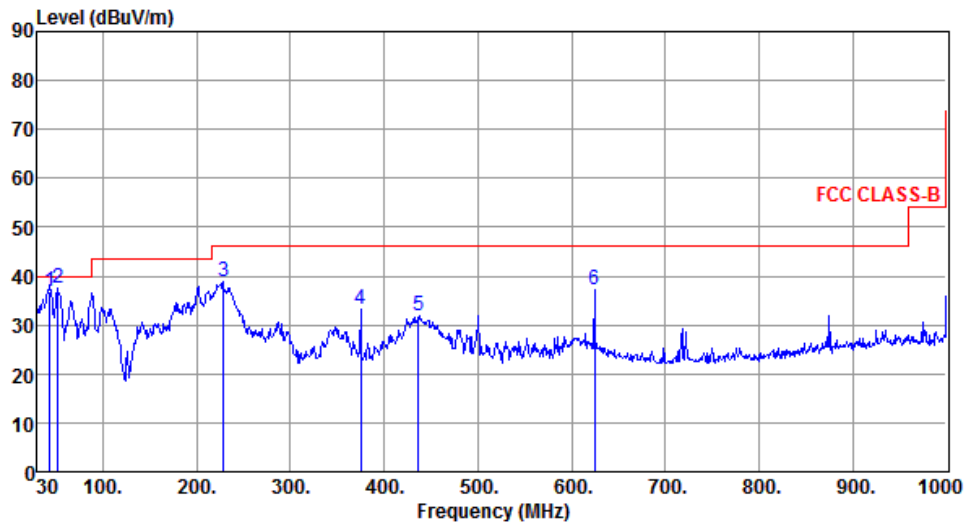
  


The graph displays the emission level in dBUV/m across a frequency range from 30 MHz to 1000 MHz. A red line represents the FCC CLASS-B limit, which is 40 dBUV/m from 30 MHz to 100 MHz, then steps up to 50 dBUV/m from 100 MHz to 1000 MHz. Six specific peaks are identified and numbered 1 through 6. Below the graph is a table summarizing the data for these peaks.

|   | 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 | 200.93       | 41.37                       | 43.50           | -2.13        | 60.66                 | -19.29       | QP     | 100               | 185                  |
| 2 | 227.53       | 44.27                       | 46.00           | -1.73        | 62.96                 | -18.69       | QP     | 100               | 223                  |
| 3 | 375.30       | 34.49                       | 46.00           | -11.51       | 48.59                 | -14.10       | Peak   | ---               | ---                  |
| 4 | 435.56       | 34.93                       | 46.00           | -11.07       | 47.46                 | -12.53       | Peak   | ---               | ---                  |
| 5 | 624.80       | 32.14                       | 46.00           | -13.86       | 41.24                 | -9.10        | Peak   | ---               | ---                  |
| 6 | 874.88       | 29.79                       | 46.00           | -16.21       | 35.35                 | -5.56        | 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.

|                     |          |                         |      |
|---------------------|----------|-------------------------|------|
| <b>Modulation</b>   | VHT40    | <b>Test Freq. (MHz)</b> | 5230 |
| <b>Polarization</b> | 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 | 43.47        | 36.94                       | 40.00           | -3.06        | 53.41                 | -16.47       | QP     | 100               | 17                   |
| 2 | 51.60        | 37.69                       | 40.00           | -2.31        | 54.23                 | -16.54       | QP     | 100               | 353                  |
| 3 | 228.45       | 39.01                       | 46.00           | -6.99        | 57.66                 | -18.65       | Peak   | ---               | ---                  |
| 4 | 375.50       | 33.22                       | 46.00           | -12.78       | 47.32                 | -14.10       | Peak   | ---               | ---                  |
| 5 | 436.82       | 31.91                       | 46.00           | -14.09       | 44.41                 | -12.50       | Peak   | ---               | ---                  |
| 6 | 624.40       | 37.18                       | 46.00           | -8.82        | 46.29                 | -9.11        | Peak   | ---               | ---                  |

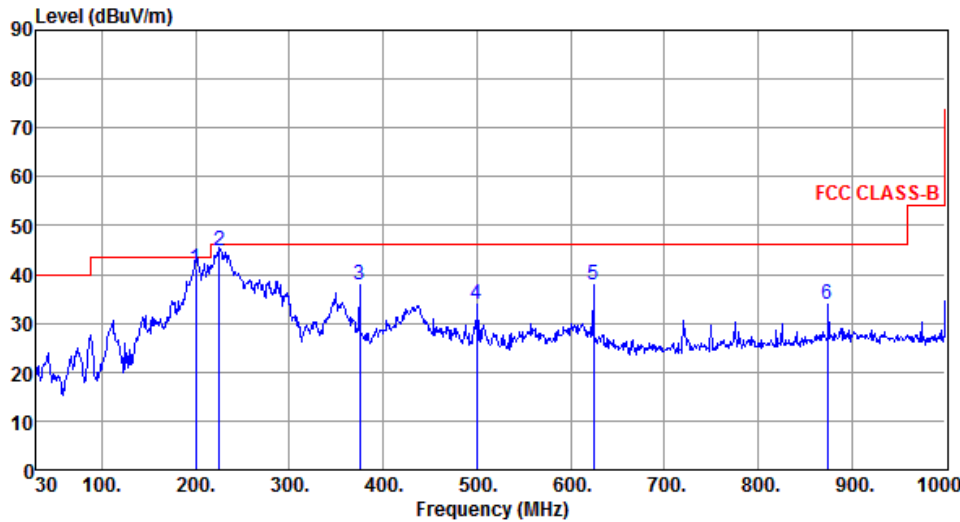
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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.

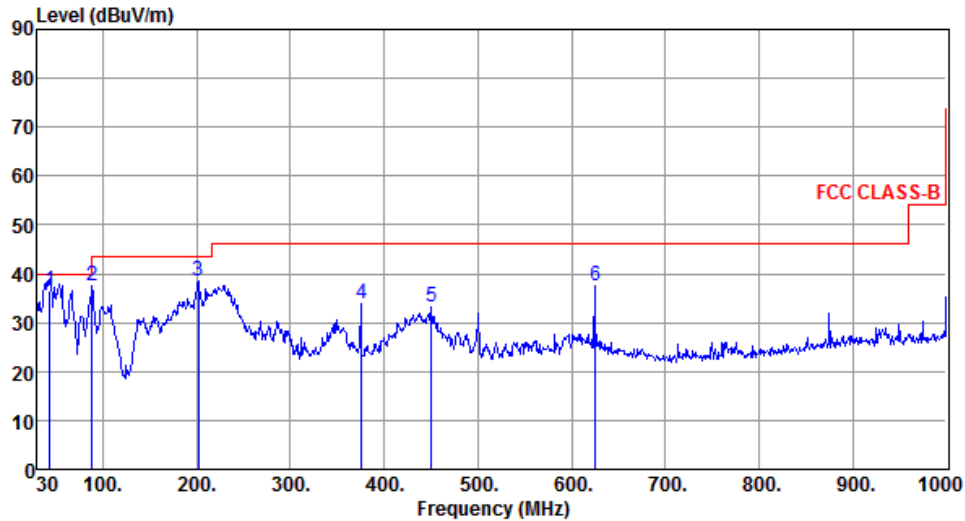
|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz) | 5785 |
| Polarization | Horizontal |                  |      |

|   | 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 | 199.85       | 41.23                       | 43.50           | -2.27        | 60.51                 | -19.28       | QP     | 100               | 155                  |
| 2 | 225.00       | 44.85                       | 46.00           | -1.15        | 63.65                 | -18.80       | QP     | 100               | 336                  |
| 3 | 374.85       | 38.01                       | 46.00           | -7.99        | 52.12                 | -14.11       | Peak   | ---               | ---                  |
| 4 | 500.00       | 34.01                       | 46.00           | -11.99       | 45.13                 | -11.12       | Peak   | ---               | ---                  |
| 5 | 624.35       | 37.75                       | 46.00           | -8.25        | 46.86                 | -9.11        | Peak   | ---               | ---                  |
| 6 | 874.07       | 34.02                       | 46.00           | -11.98       | 39.59                 | -5.57        | 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.

|              |          |                  |      |
|--------------|----------|------------------|------|
| 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 | 43.45        | 36.47                       | 40.00           | -3.53        | 52.95                 | -16.48       | QP     | 100               | 59                   |
| 2 | 88.51        | 37.61                       | 43.50           | -5.89        | 60.34                 | -22.73       | Peak   | ---               | ---                  |
| 3 | 201.50       | 38.45                       | 43.50           | -5.05        | 57.75                 | -19.30       | Peak   | ---               | ---                  |
| 4 | 375.85       | 33.84                       | 46.00           | -12.16       | 47.93                 | -14.09       | Peak   | ---               | ---                  |
| 5 | 450.55       | 33.21                       | 46.00           | -12.79       | 45.37                 | -12.16       | Peak   | ---               | ---                  |
| 6 | 625.13       | 37.40                       | 46.00           | -8.60        | 46.49                 | -9.09        | Peak   | ---               | ---                  |

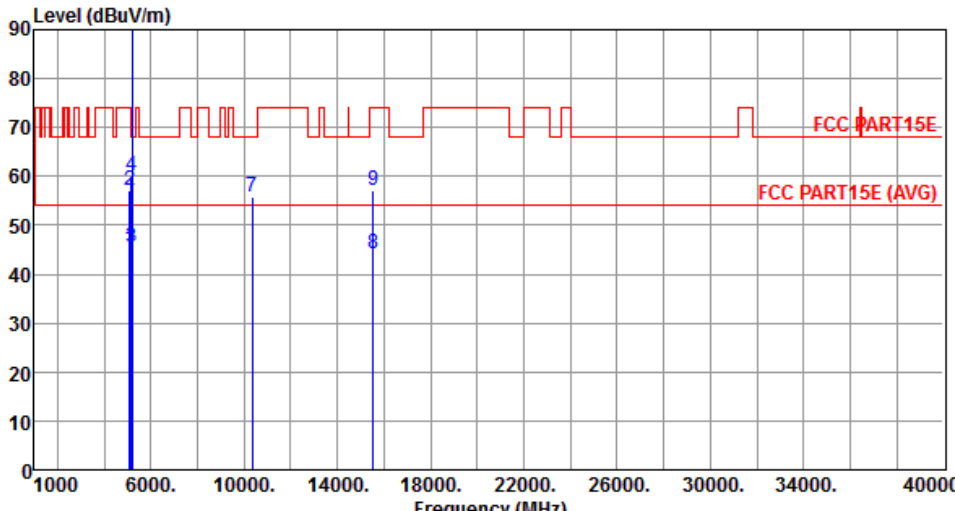
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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.

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

|                                                                                                |            |                  |        |        |            |        |         |          |            |
|------------------------------------------------------------------------------------------------|------------|------------------|--------|--------|------------|--------|---------|----------|------------|
| Modulation                                                                                     | VHT20      | Test Freq. (MHz) | 5180   |        |            |        |         |          |            |
| Polarization                                                                                   | Horizontal |                  |        |        |            |        |         |          |            |
| <div></div> |            |                  |        |        |            |        |         |          |            |
|                                                                                                | Freq.      | Emission level   | Limit  | Margin | SA reading | Factor | Remark  | ANT High | Turn Table |
|                                                                                                | MHz        | dBuV/m           | dBuV/m | dB     | dBuV       | dB     |         | cm       | deg        |
| 1                                                                                              | 5100.00    | 45.10            | 54.00  | -8.90  | 40.77      | 4.33   | Average | 222      | 114        |
| 2                                                                                              | 5100.00    | 56.97            | 74.00  | -17.03 | 52.64      | 4.33   | Peak    | 222      | 114        |
| 3                                                                                              | 5150.00    | 45.48            | 54.00  | -8.52  | 41.08      | 4.40   | Average | 203      | 53         |
| 4                                                                                              | 5150.00    | 59.95            | 74.00  | -14.05 | 55.55      | 4.40   | Peak    | 203      | 53         |
| 5 *                                                                                            | 5180.00    | 103.92           |        |        | 99.48      | 4.44   | Average | 203      | 84         |
| 6 *                                                                                            | 5180.00    | 116.04           |        |        | 111.60     | 4.44   | Peak    | 203      | 84         |
| 7                                                                                              | 10360.00   | 55.85            | 68.20  | -12.35 | 41.65      | 14.20  | Peak    | 133      | 199        |
| 8                                                                                              | 15540.00   | 44.29            | 54.00  | -9.71  | 29.18      | 15.11  | Average | 188      | 243        |
| 9                                                                                              | 15540.00   | 57.29            | 74.00  | -16.71 | 42.18      | 15.11  | Peak    | 188      | 243        |

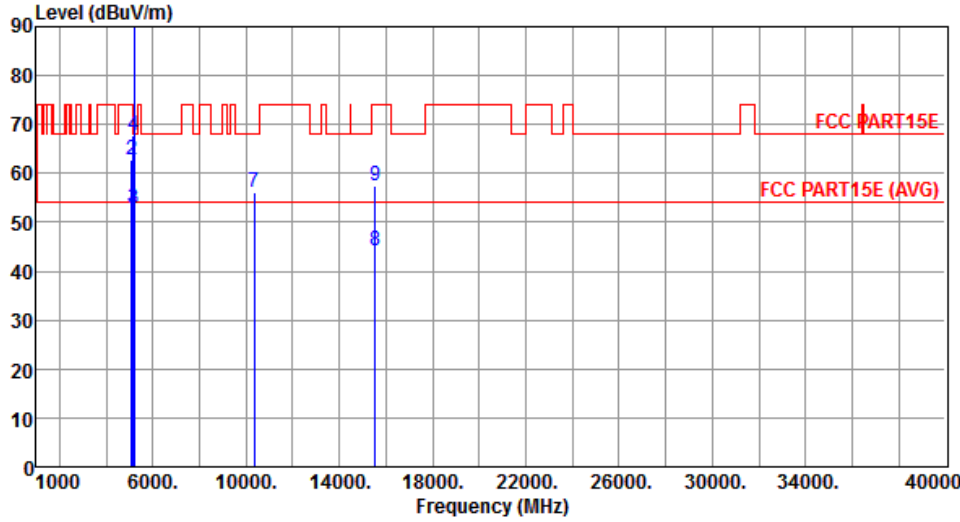
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor\* (dB)

\*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) | 5180 |
| Polarization | Vertical |                  |      |

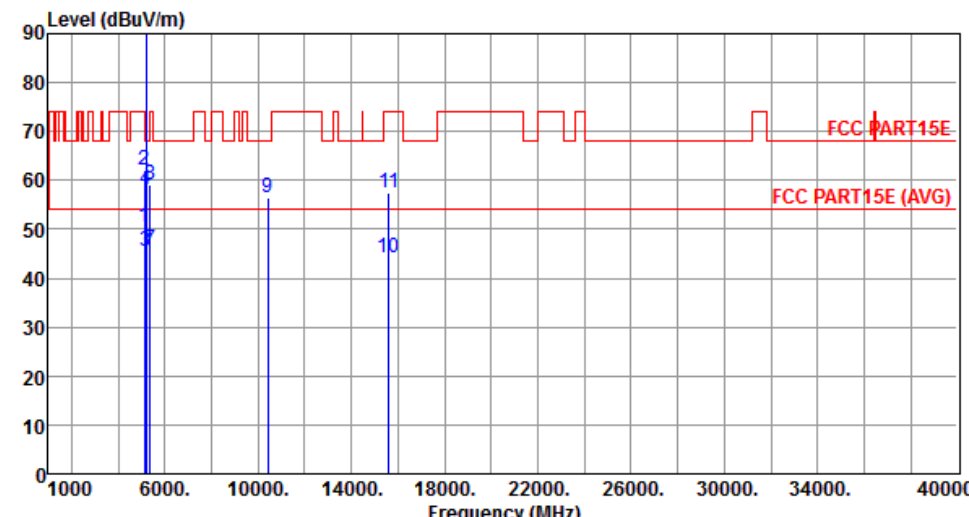
  


|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5100.00      | 51.57                       | 54.00           | -2.43        | 47.24                 | 4.33         | Average | 100               | 216                  |
| 2   | 5100.00      | 62.75                       | 74.00           | -11.25       | 58.42                 | 4.33         | Peak    | 100               | 216                  |
| 3   | 5150.00      | 52.72                       | 54.00           | -1.28        | 48.32                 | 4.40         | Average | 100               | 216                  |
| 4   | 5150.00      | 67.83                       | 74.00           | -6.17        | 63.43                 | 4.40         | Peak    | 100               | 216                  |
| 5 * | 5180.00      | 110.61                      |                 |              | 106.17                | 4.44         | Average | 217               | 196                  |
| 6 * | 5180.00      | 122.63                      |                 |              | 118.19                | 4.44         | Peak    | 217               | 196                  |
| 7   | 10360.00     | 56.03                       | 68.20           | -12.17       | 41.83                 | 14.20        | Peak    | 222               | 285                  |
| 8   | 15540.00     | 44.33                       | 54.00           | -9.67        | 29.22                 | 15.11        | Average | 233               | 143                  |
| 9   | 15540.00     | 57.46                       | 74.00           | -16.54       | 42.35                 | 15.11        | Peak    | 233               | 143                  |

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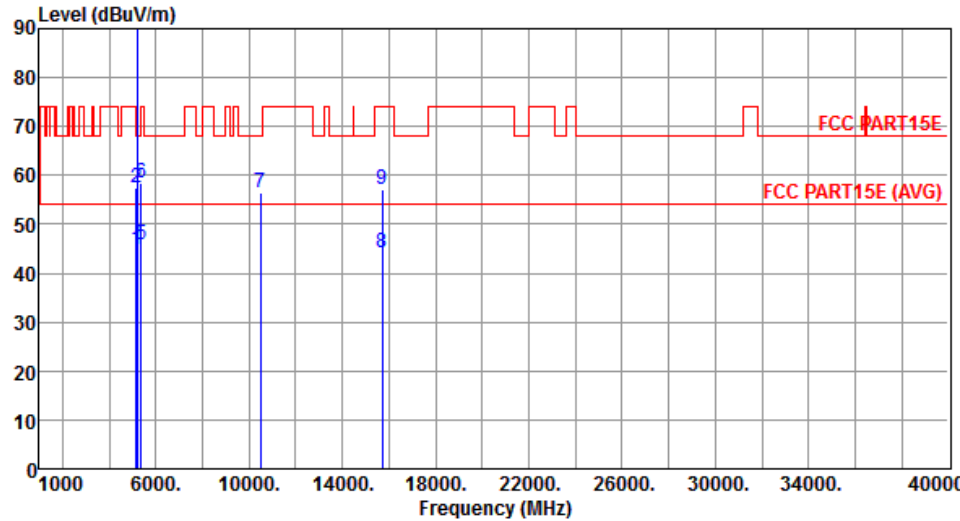
|              |          |                  |      |
|--------------|----------|------------------|------|
| Modulation   | VHT20    | Test Freq. (MHz) | 5200 |
| Polarization | Vertical |                  |      |

|     | 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   | 5120.00      | 50.57                       | 54.00           | -3.43        | 46.22                 | 4.35         | Average | 100               | 199                  |
| 2   | 5120.00      | 62.23                       | 74.00           | -11.77       | 57.88                 | 4.35         | Peak    | 100               | 199                  |
| 3   | 5150.00      | 45.63                       | 54.00           | -8.37        | 41.23                 | 4.40         | Average | 100               | 199                  |
| 4   | 5150.00      | 58.21                       | 74.00           | -15.79       | 53.81                 | 4.40         | Peak    | 100               | 199                  |
| 5 * | 5200.00      | 111.36                      |                 |              | 106.88                | 4.48         | Average | 217               | 199                  |
| 6 * | 5200.00      | 123.47                      |                 |              | 118.99                | 4.48         | Peak    | 217               | 199                  |
| 7   | 5350.00      | 45.99                       | 54.00           | -8.01        | 41.35                 | 4.64         | Average | 100               | 199                  |
| 8   | 5350.00      | 59.06                       | 74.00           | -14.94       | 54.42                 | 4.64         | Peak    | 100               | 199                  |
| 9   | 10400.00     | 56.35                       | 68.20           | -11.85       | 42.07                 | 14.28        | Peak    | 244               | 188                  |
| 10  | 15600.00     | 44.24                       | 54.00           | -9.76        | 29.22                 | 15.02        | Average | 189               | 227                  |
| 11  | 15600.00     | 57.36                       | 74.00           | -16.64       | 42.34                 | 15.02        | Peak    | 189               | 227                  |

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) | 5240 |
| Polarization | Horizontal |                  |      |



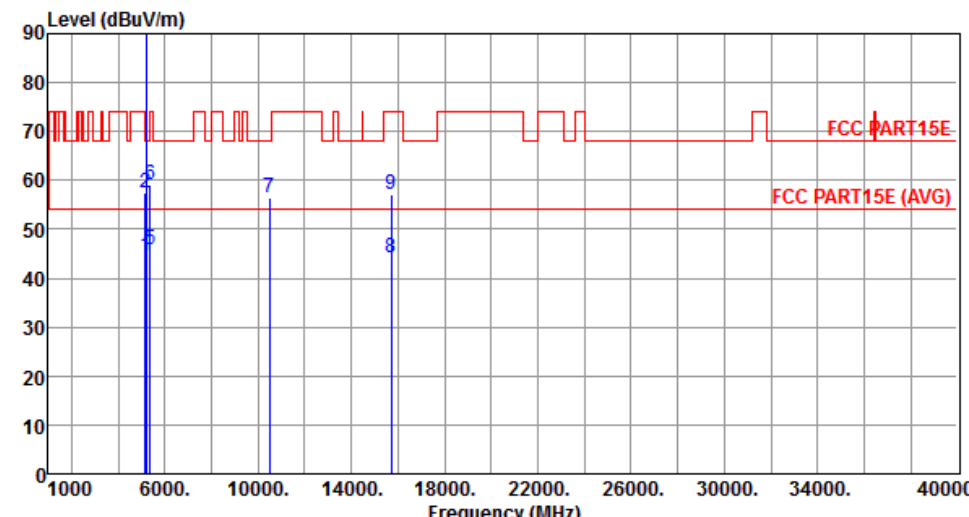
|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5150.00      | 44.69                       | 54.00           | -9.31        | 40.29                 | 4.40         | Average | 209               | 77                   |
| 2   | 5150.00      | 57.51                       | 74.00           | -16.49       | 53.11                 | 4.40         | Peak    | 209               | 77                   |
| 3 * | 5240.00      | 104.17                      |                 |              | 99.65                 | 4.52         | Average | 209               | 77                   |
| 4 * | 5240.00      | 116.10                      |                 |              | 111.58                | 4.52         | Peak    | 209               | 77                   |
| 5   | 5350.00      | 45.92                       | 54.00           | -8.08        | 41.28                 | 4.64         | Average | 209               | 77                   |
| 6   | 5350.00      | 58.54                       | 74.00           | -15.46       | 53.90                 | 4.64         | Peak    | 209               | 77                   |
| 7   | 10480.00     | 56.41                       | 68.20           | -11.79       | 41.98                 | 14.43        | Peak    | 266               | 188                  |
| 8   | 15720.00     | 44.15                       | 54.00           | -9.85        | 29.28                 | 14.87        | Average | 199               | 186                  |
| 9   | 15720.00     | 57.04                       | 74.00           | -16.96       | 42.17                 | 14.87        | Peak    | 199               | 186                  |

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) | 5240 |
| Polarization | Vertical |                  |      |

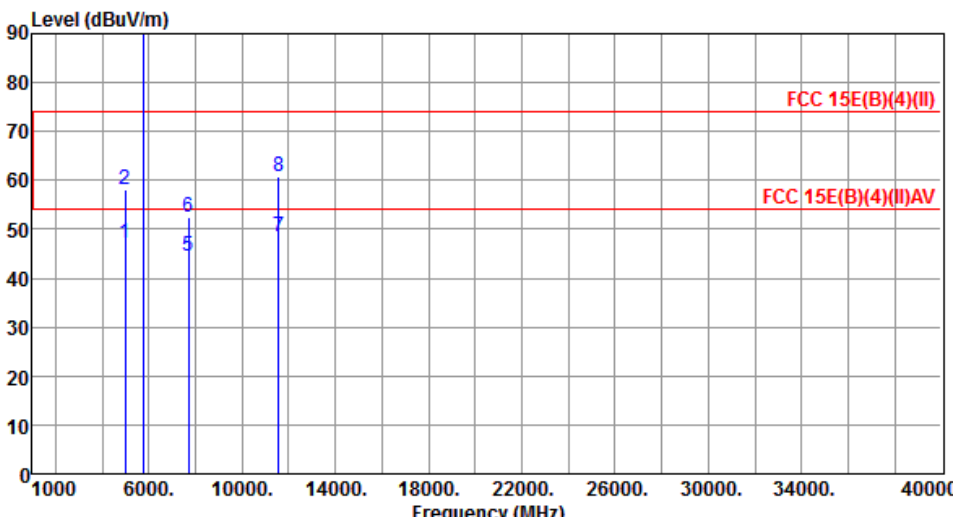
|     | Freq.<br>MHz | Emission<br>level<br>dBUV/m | Limit<br>dBUV/m | Margin<br>dB | SA<br>reading<br>dBUV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5150.00      | 44.51                       | 54.00           | -9.49        | 40.11                 | 4.40         | Average | 117               | 214                  |
| 2   | 5150.00      | 57.59                       | 74.00           | -16.41       | 53.19                 | 4.40         | Peak    | 117               | 214                  |
| 3 * | 5240.00      | 111.26                      |                 |              | 106.74                | 4.52         | Average | 216               | 214                  |
| 4 * | 5240.00      | 122.84                      |                 |              | 118.32                | 4.52         | Peak    | 216               | 214                  |
| 5   | 5350.00      | 45.98                       | 54.00           | -8.02        | 41.34                 | 4.64         | Average | 117               | 214                  |
| 6   | 5350.00      | 58.97                       | 74.00           | -15.03       | 54.33                 | 4.64         | Peak    | 117               | 214                  |
| 7   | 10480.00     | 56.52                       | 68.20           | -11.68       | 42.09                 | 14.43        | Peak    | 222               | 329                  |
| 8   | 15720.00     | 44.24                       | 54.00           | -9.76        | 29.37                 | 14.87        | Average | 188               | 226                  |
| 9   | 15720.00     | 57.12                       | 74.00           | -16.88       | 42.25                 | 14.87        | Peak    | 188               | 226                  |

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) | 5745 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|              |            |                  |      |
|--------------|------------|------------------|------|
| Modulation   | VHT20      | Test Freq. (MHz) | 5785 |
| Polarization | Horizontal |                  |      |

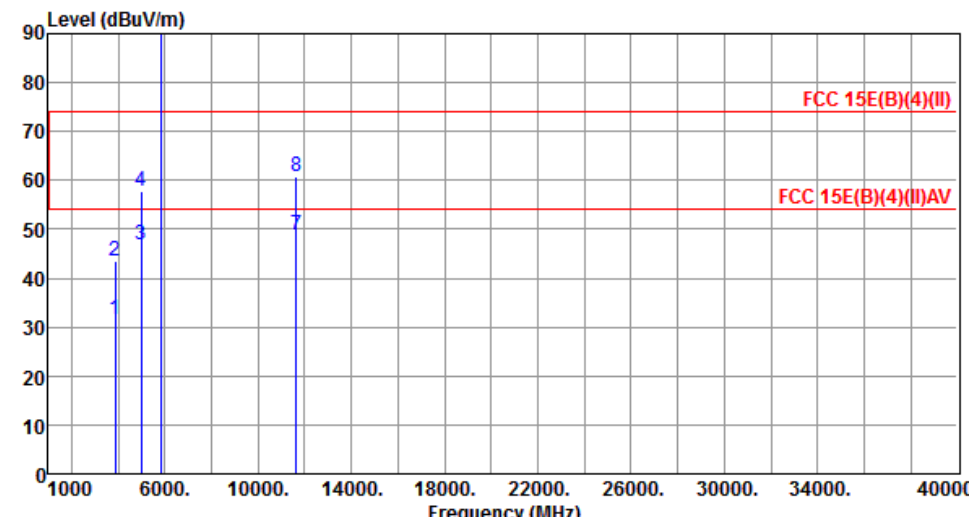
  


|     | Freq.<br>MHz | Emission<br>level<br>dBuV/m | Limit<br>dBuV/m | Margin<br>dB | SA<br>reading<br>dBuV | Factor<br>dB | Remark  | ANT<br>High<br>cm | Turn<br>Table<br>deg |
|-----|--------------|-----------------------------|-----------------|--------------|-----------------------|--------------|---------|-------------------|----------------------|
| 1   | 5000.00      | 47.16                       | 54.00           | -6.84        | 42.99                 | 4.17         | Average | 222               | 321                  |
| 2   | 5000.00      | 58.06                       | 74.00           | -15.94       | 53.89                 | 4.17         | Peak    | 222               | 321                  |
| 3 * | 5785.00      | 107.87                      |                 |              | 102.68                | 5.19         | Average | 222               | 96                   |
| 4 * | 5785.00      | 119.98                      |                 |              | 114.79                | 5.19         | Peak    | 222               | 96                   |
| 5   | 7713.33      | 44.61                       | 54.00           | -9.39        | 35.87                 | 8.74         | Average | 321               | 222                  |
| 6   | 7713.33      | 52.39                       | 74.00           | -21.61       | 43.65                 | 8.74         | Peak    | 321               | 222                  |
| 7   | 11570.00     | 48.51                       | 54.00           | -5.49        | 33.18                 | 15.33        | Average | 188               | 222                  |
| 8   | 11570.00     | 60.65                       | 74.00           | -13.35       | 45.32                 | 15.33        | Peak    | 188               | 222                  |

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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(MHz) | 5785 |
| 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) | 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   | 3883.33      | 31.49                       | 54.00           | -22.51       | 30.35                 | 1.14         | Average | 333               | 188                  |
| 2   | 3883.33      | 43.42                       | 74.00           | -30.58       | 42.28                 | 1.14         | Peak    | 333               | 188                  |
| 3   | 5000.00      | 46.76                       | 54.00           | -7.24        | 42.59                 | 4.17         | Average | 123               | 111                  |
| 4   | 5000.00      | 57.95                       | 74.00           | -16.05       | 53.78                 | 4.17         | Peak    | 123               | 111                  |
| 5 * | 5825.00      | 107.06                      |                 |              | 101.82                | 5.24         | Average | 222               | 97                   |
| 6 * | 5825.00      | 119.57                      |                 |              | 114.33                | 5.24         | Peak    | 222               | 97                   |
| 7   | 11650.00     | 48.95                       | 54.00           | -5.05        | 33.86                 | 15.09        | Average | 221               | 345                  |
| 8   | 11650.00     | 60.64                       | 74.00           | -13.36       | 45.55                 | 15.09        | Peak    | 221               | 345                  |

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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(MHz) | 5825 |
| Polarization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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