

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



**FCC Applicant:** Cisco Systems Inc.  
125 West Tasman Dr, Bldg. P, San Jose, California, 95134  
USA

**Product Name:** FM4500EMB-HW

**Brand Name:** Cisco Fluidmesh FM4500 EMBEDDED

**Model No.:** FM4500EMB

**Model Difference:** N/A

**Report Number:** ER/2021/A0108

**FCC ID** R5SX500E

**Issue Date:** January 28, 2022

**Date of Test:** November 16, 2021 ~ January 12, 2022

**Date of EUT Received:** October 28, 2021

Approved By \_\_\_\_\_

**Blue Yang**

## We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407.

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

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## Revision History

| Report Number | Revision | Description | Issue Date       | Revised By  | Remark |
|---------------|----------|-------------|------------------|-------------|--------|
| ER/2021/A0108 | 00       | Original.   | January 28, 2022 | Karen Huang |        |
|               |          |             |                  |             |        |
|               |          |             |                  |             |        |

**Note:**

- 1、The remark "\*" indicates modification of the report upon requests from certification body.

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## 1 GENERAL INFORMATION

### 1.1 Product Description

|                   |                                 |
|-------------------|---------------------------------|
| Product Name:     | FM4500EMB-HW                    |
| Brand Name:       | Cisco Fluidmesh FM4500 EMBEDDED |
| Model No.:        | FM4500EMB                       |
| Model Difference: | N/A                             |
| Hardware Version: | N/A                             |
| Firmware Version: | N/A                             |
| EUT Series No.:   | 4500152873                      |
| Power Supply:     | 56Vdc                           |

### 1.2 Modulation & Data Rate

|                  |                                    |
|------------------|------------------------------------|
| Modulation type: | 64QAM, 16QAM, QPSK, BPSK for OFDM  |
|                  | 256QAM for OFDM in 802.11ac only   |
| Transition Rate: | 802.11 n_20MHz: 6.5 - 144.4 Mbps   |
|                  | 802.11 n_40MHz: 13.5 - 300 Mbps    |
|                  | 802.11 ac_20MHz: 6.5 - 173.4 Mbps  |
|                  | 802.11 ac_40MHz: 13.5 - 400 Mbps   |
|                  | 802.11 ac_80MHz: 29.3 - 866.6 Mbps |
|                  |                                    |

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### 1.3 Antenna Designation

| Antenna Type  | Supplier         | Antenna Part No. | Freq. (MHz) | Peak Antenna Gain (dBi) | Directional Gain (dBi) |
|---------------|------------------|------------------|-------------|-------------------------|------------------------|
| Omnidirection | MP Antenna, LTD. | 08-ANT-0985      | 5150~5250   | 3.0                     | 6.01                   |
|               |                  |                  | 5250~5350   | 3.0                     | 6.01                   |
|               |                  |                  | 5475~5725   | 3.0                     | 6.01                   |
|               |                  |                  | 5475~5825   | 3.0                     | 6.01                   |
| Omnidirection | Fluidmesh        | FM-OMNI-5-V      | 5150~5250   | 4.0                     | 7.52                   |
|               |                  |                  | 5250~5350   | 4.0                     | 7.52                   |
|               |                  |                  | 5475~5725   | 4.0                     | 7.52                   |
|               |                  |                  | 5475~5825   | 4.0                     | 7.52                   |
| Omnidirection | Fluidmesh        | FM-OMNI-5-H      | 5150~5250   | 5.0                     | 7.52                   |
|               |                  |                  | 5250~5350   | 5.0                     | 7.52                   |
|               |                  |                  | 5475~5725   | 5.0                     | 7.52                   |
|               |                  |                  | 5475~5825   | 5.0                     | 7.52                   |

**Note:**

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.

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1.4 FCC

| Wi-Fi                  | Frequency Range | Channels | Rated Power(Avg)<br>(dBm) (Worst Case) | Modulation<br>Technology |
|------------------------|-----------------|----------|--|--------------------------|
| n_HT/<br>ac_VHT<br>20M | 5180~5240       | 4        | 20.89 dBm                              | OFDM                     |
|                        | 5260~5320       | 4        | 20.52 dBm                              | OFDM                     |
|                        | 5500-5700       | 11       | 20.73 dBm                              | OFDM                     |
|                        | 5745-5825       | 5        | 20.07 dBm                              | OFDM                     |
| n_HT/<br>ac_VHT<br>40M | 5190~5230       | 2        | 20.88 dBm                              | OFDM                     |
|                        | 5270~5310       | 2        | 20.57 dBm                              | OFDM                     |
|                        | 5510-5670       | 5        | 20.80 dBm                              | OFDM                     |
|                        | 5755-5795       | 2        | 19.83 dBm                              | OFDM                     |
| ac_VHT<br>80M          | 5210            | 1        | 20.22 dBm                              | OFDM                     |
|                        | 5290            | 1        | 19.90 dBm                              | OFDM                     |
|                        | 5530-5610       | 2        | 19.87 dBm                              | OFDM                     |
|                        | 5775            | 1        | 20.14 dBm                              | OFDM                     |

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### 1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407  
 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01  
 FCC KDB 662911 D01 Multiple Transmitter Output v02r01  
 ANSI C63.10:2013

### 1.6 Test Facility

| Laboratory  | Test Site Address   | Test Site Name | FCC Designation number | IC CAB identifier |
|---|---|----------------|------------------------|-------------------|
| SGS Taiwan Ltd.<br>Central RF Lab.<br>(TAF code 3702) | No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. | SAC 1          | TW0027                 | TW3702            |
|   |   | SAC 3          |                        |                   |
|   |   | Conduction 1   |                        |                   |
|   |   | Conducted 1    |                        |                   |
|   |   | Conducted 2    |                        |                   |
|   |   | Conducted 3    |                        |                   |
|   |   | Conducted 4    |                        |                   |
|   |   | Conducted 5    |                        |                   |
|   |   | Conducted 6    |                        |                   |
|   | No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333                            | Conduction C   | TW0028                 |                   |
|   |   | SAC C          |                        |                   |
|   |   | SAC D          |                        |                   |
|   |   | SAC G          |                        |                   |
|   |   | Conducted A    |                        |                   |
|   |   | Conducted B    |                        |                   |
|   |   | Conducted C    |                        |                   |
|   |   | Conducted D    |                        |                   |
|   |   | Conducted E    |                        |                   |
|   |   | Conducted F    |                        |                   |
| Conducted G   |   |                |                        |                   |

**Note:** Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

### 1.7 Special Accessories

There are no special accessories used while test was conducted.

### 1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

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

### 2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

#### 2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

#### 2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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## 2.4 Measurement Results Explanation Example

### 2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

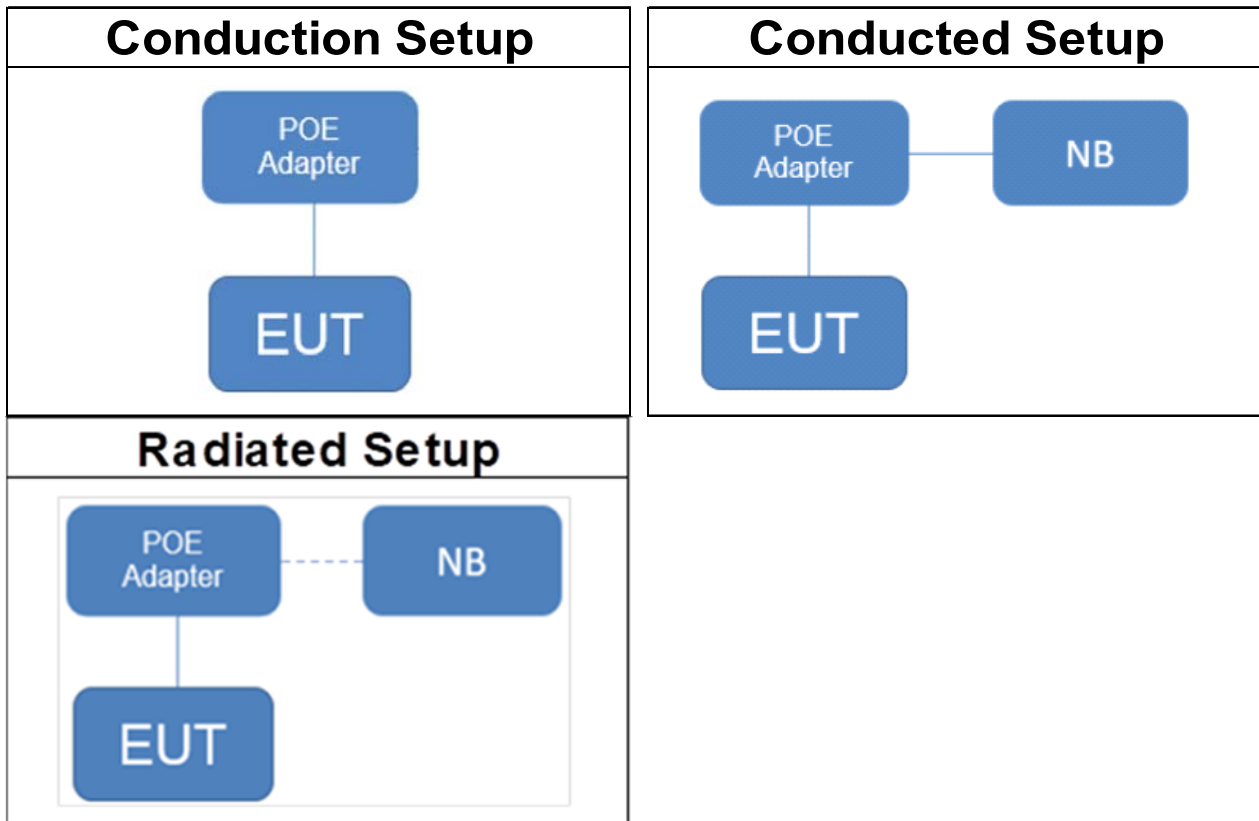
Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

### 2.4.2 For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

## 2.5 Test Configuration



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## 2.6 Control Unit(s)

| Conducted Emission Test Site: Conduction 1 |         |               |               |           |          |
|--|---------|---------------|---------------|-----------|----------|
| EQUIPMENT TYPE                             | MFR     | MODEL NUMBER  | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Test Software                              | audix   | e3            | Ver. 9 210322 | N.C.R     | N.C.R    |
| POE Adapter                                | PHIHONG | POE29U1AT(PL) | PHI242904L4   | N/A       | N/A      |

| Conducted Emission Test Site: Conducted 2 |         |                     |                   |           |          |
|---|---------|---------------------|-------------------|-----------|----------|
| EQUIPMENT TYPE                            | MFR     | MODEL NUMBER        | SERIAL NUMBER     | LAST CAL. | CAL DUE. |
| Test Software                             | SGS     | Radio Test Software | Ver. 21           | N.C.R     | N.C.R    |
| Notebook                                  | Lenovo  | L430                | R9-WGNK5<br>13/01 | N/A       | N/A      |
| POE Adapter                               | PHIHONG | POE29U1A<br>T(PL)   | PHI242904L4       | N/A       | N/A      |

| Radiated Emission Test Site: SAC 3 |         |               |                   |           |          |
|------------------------------------|---------|---------------|-------------------|-----------|----------|
| EQUIPMENT TYPE                     | MFR     | MODEL NUMBER  | SERIAL NUMBER     | LAST CAL. | CAL DUE. |
| Test Software                      | audix   | e3            | Ver. 9 210322     | N.C.R     | N.C.R    |
| Notebook                           | Lenovo  | L430          | R9-WGNK5<br>13/01 | N/A       | N/A      |
| POE Adapter                        | PHIHONG | POE29U1AT(PL) | PHI242904L4       | N/A       | N/A      |

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### 3 SUMMARY OF TEST RESULT

| FCC Rules                        | Description Of Test                            | Result    |
|----------------------------------|--|-----------|
| §15.207                          | AC Power Line Conducted Emission               | Compliant |
| §15.407(e)                       | Emission Bandwidth                             | Compliant |
| §15.407(a)                       | Maximum Conducted Output Power                 | Compliant |
| §15.407(a)                       | Power Spectral Density                         | Compliant |
| §15.205<br>§15.209<br>§15.407(b) | Undesirable Radiated Emissions                 | Compliant |
| §15.407(c)                       | Transmission in case of Absence of Information | Compliant |
| §15.203                          | Antenna Requirement                            | Compliant |

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## 4 DESCRIPTION OF TEST MODES

### 4.1 Operating Frequencies

#### Operated band in 5150 MHz ~5250 MHz:

| 20 M |            | 40 M |            | 80 M |            |
|------|------------|------|------------|------|------------|
| CH   | Freq (MHz) | CH   | Freq (MHz) | CH   | Freq (MHz) |
| 36   | 5180       | 38   | 5190       | 42   | 5210       |
| 40   | 5200       | 46   | 5230       |      |            |
| 44   | 5220       |      |            |      |            |
| 48   | 5240       |      |            |      |            |

#### Operated band in 5250 MHz ~5350 MHz:

| 20 M |            | 40 M |            | 80 M |            |
|------|------------|------|------------|------|------------|
| CH   | Freq (MHz) | CH   | Freq (MHz) | CH   | Freq (MHz) |
| 52   | 5260       | 54   | 5270       | 58   | 5290       |
| 56   | 5280       | 62   | 5310       |      |            |
| 60   | 5300       |      |            |      |            |
| 64   | 5320       |      |            |      |            |

#### Operated band in 5470 MHz ~5725 MHz:

| 20 M |            | 40 M |            | 80 M |            |
|------|------------|------|------------|------|------------|
| CH   | Freq (MHz) | CH   | Freq (MHz) | CH   | Freq (MHz) |
| 100  | 5500       | 102  | 5510       | 106  | 5530       |
| 104  | 5520       | 110  | 5550       | 122  | 5610       |
| 108  | 5540       | 118  | 5590       |      |            |
| 112  | 5560       | 126  | 5630       |      |            |
| 116  | 5580       | 134  | 5670       |      |            |
| 120  | 5600       |      |            |      |            |
| 124  | 5620       |      |            |      |            |
| 128  | 5640       |      |            |      |            |
| 132  | 5660       |      |            |      |            |
| 136  | 5680       |      |            |      |            |
| 140  | 5700       |      |            |      |            |

#### Operated band in 5725 MHz ~5850 MHz:

| 20 M |            | 40 M |            | 80 M |            |
|------|------------|------|------------|------|------------|
| CH   | Freq (MHz) | CH   | Freq (MHz) | CH   | Freq (MHz) |
| 149  | 5745       | 151  | 5755       | 155  | 5775       |
| 153  | 5765       | 159  | 5795       |      |            |
| 157  | 5785       |      |            |      |            |
| 161  | 5805       |      |            |      |            |
| 165  | 5825       |      |            |      |            |

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#### 4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.

| Modulation |           | Transmission Chain |     |   |     |  |     | Single Transmission Spatial | Multiple Transmission Spatial |  |      |   |      |
|------------|-----------|--------------------|-----|---|-----|--|-----|-----------------------------|-------------------------------|--|------|---|------|
|            | 802.11 a  |                    | Ch0 |   | Ch1 |  | Ch2 |                             | Ch3                           |  | 1TX  |   | 2TX  |
| v          | 802.11 n  | v                  | Ch0 | v | Ch1 |  | Ch2 |                             | Ch3                           |  | SISO | v | MIMO |
| v          | 802.11 ac | v                  | Ch0 | v | Ch1 |  | Ch2 |                             | Ch3                           |  | SISO | v | MIMO |
|            | 802.11 ax |                    | Ch0 |   | Ch1 |  | Ch2 |                             | Ch3                           |  | SISO |   | MIMO |

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

| RADIATED EMISSION TEST (BELOW 1 GHz) |                      |                   |                |            |                  |              |
|--------------------------------------|----------------------|-------------------|----------------|------------|------------------|--------------|
| MODE                                 | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11_HT20                          | 5180-5240            | 36 to 48          | 44             | OFDM       | MCS8             | MIMO         |
|                                      | 5260-5320            | 52 to 64          | 60             |            |                  |              |
|                                      | 5500-5700            | 100 to 140        | 116            |            |                  |              |
|                                      | 5745-5825            | 149 to 165        | 157            |            |                  |              |
| 802.11ac_VHT80                       | 5210                 | 42                | 42             | OFDM       | MCS0             | MIMO         |
|                                      | 5290                 | 58                | 58             |            |                  |              |
|                                      | 5530-5610            | 106 to 122        | 122            |            |                  |              |
|                                      | 5775                 | 155               | 155            |            |                  |              |

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| RADIATED EMISSION TEST (ABOVE 1 GHz) |                      |                   |                |            |                  |              |
|--------------------------------------|----------------------|-------------------|----------------|------------|------------------|--------------|
| MODE                                 | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11n_HT20                         | 5180~5240            | 36 to 48          | 36,44,48       | OFDM       | MCS8             | MIMO         |
|                                      | 5260~5320            | 52 to 64          | 52,60,64       |            |                  |              |
|                                      | 5500~5700            | 100 to 140        | 100,116,140    |            |                  |              |
|                                      | 5745~5825            | 149 to 165        | 149,157,165    |            |                  |              |
| 802.11n_HT40                         | 5190~5230            | 38 to 46          | 38,46          | OFDM       | MCS8             | MIMO         |
|                                      | 5270~5310            | 54 to 62          | 54,62          |            |                  |              |
|                                      | 5510~5670            | 102 to 134        | 102,110,134    |            |                  |              |
|                                      | 5755~5795            | 151 to 159        | 151,159        |            |                  |              |
| 802.11ac_VHT80                       | 5210                 | 42                | 42             | OFDM       | MCS0             | MIMO         |
|                                      | 5290                 | 58                | 58             |            |                  |              |
|                                      | 5530~5610            | 106 to 122        | 106,122        |            |                  |              |
|                                      | 5775                 | 155               | 155            |            |                  |              |

| CONDUCTED TEST |                      |                   |                |            |                  |              |
|----------------|----------------------|-------------------|----------------|------------|------------------|--------------|
| MODE           | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11n_HT20   | 5180~5240            | 36 to 48          | 36,44,48       | OFDM       | MCS8             | MIMO         |
|                | 5260~5320            | 52 to 64          | 52,60,64       |            |                  |              |
|                | 5500~5700            | 100 to 140        | 100,116,140    |            |                  |              |
|                | 5745~5825            | 149 to 165        | 149,157,165    |            |                  |              |
| 802.11n_HT40   | 5190~5230            | 38 to 46          | 38,46          | OFDM       | MCS8             | MIMO         |
|                | 5270~5310            | 54 to 62          | 54,62          |            |                  |              |
|                | 5510~5670            | 102 to 134        | 102,110,134    |            |                  |              |
|                | 5755~5795            | 151 to 159        | 151,159        |            |                  |              |
| 802.11ac_VHT80 | 5210                 | 42                | 42             | OFDM       | MCS0             | MIMO         |
|                | 5290                 | 58                | 58             |            |                  |              |
|                | 5530~5610            | 106 to 122        | 106,122        |            |                  |              |
|                | 5775                 | 155               | 155            |            |                  |              |

**Note:**

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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## 5 MEASUREMENT UNCERTAINTY

| Test Items                                 | Uncertainty |
|--|-------------|
| AC Power Line Conducted Emission           | +/- 2.34 dB |
| Output Power measurement                   | +/- 1 dB    |
| Emission Bandwidth                         | +/- 1.53 Hz |
| Undesignable radiated emission measurement | +/- 1.68 dB |
| Peak Power Density                         | +/- 1.62 dB |
| Temperature                                | +/- 0.4 °C  |
| Humidity                                   | +/- 3.5 %   |
| DC / AC Power Source                       | +/- 1 %     |

| Radiated Spurious Emission Measurement Uncertainty |             |                 |
|--|-------------|-----------------|
| Polarization: Vertical                             | +/- 2.57 dB | 9kHz~30MHz      |
|  | +/- 4.85 dB | 30MHz - 1000MHz |
|  | +/- 4.45 dB | 1GHz - 18GHz    |
|  | +/- 4.24 dB | 18GHz - 40GHz   |
| Polarization: Horizontal                           | +/- 2.57 dB | 9kHz~30MHz      |
|  | +/- 4.37 dB | 30MHz - 1000MHz |
|  | +/- 4.45 dB | 1GHz - 18GHz    |
|  | +/- 4.24 dB | 18GHz - 40GHz   |

**Note:**

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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## 6 MEASUREMENT EQUIPMENT USED

### 6.1 Emission from AC power line

| Conducted Emission Test Site: Conduction 1 |             |               |               |            |            |
|--|-------------|---------------|---------------|------------|------------|
| EQUIPMENT TYPE                             | MFR         | MODEL NUMBER  | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| EMI Test Receiver                          | R&S         | ESCI 7        | 100759        | 08/26/2021 | 08/25/2022 |
| LISN                                       | SCHWARZBECK | NSLK 8127     | 8127-465      | 04/09/2021 | 04/08/2022 |
| Coaxial Cables                             | N/A         | Coaxial Cable | 161207        | 12/07/2020 | 12/06/2021 |

### 6.2 Conducted Measurement

| Conducted Emission Test Site: Conducted 2 |               |              |               |            |            |
|---|---------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE                            | MFR           | MODEL NUMBER | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| EXA Spectrum Analyzer                     | KEYSIGHT      | N9010B       | MY60240503    | 12/11/2020 | 12/10/2021 |
| EXA Spectrum Analyzer                     | KEYSIGHT      | N9010B       | MY60240503    | 12/09/2021 | 12/08/2022 |
| Power Meter                               | Anritsu       | ML2496A      | 1804001       | 03/02/2021 | 03/01/2022 |
| Power Sensor                              | Anritsu       | MA2411B      | 1726104       | 03/02/2021 | 03/01/2022 |
| Power Sensor                              | Anritsu       | MA2411B      | 1726107       | 03/02/2021 | 03/01/2022 |
| Attenuator                                | Mini-Circuit  | BW-S10W2+    | 2             | 12/16/2020 | 12/15/2021 |
| Attenuator                                | Mini-Circuit  | BW-S10W2+    | 2             | 12/14/2021 | 12/13/2022 |
| DC Block                                  | Mini-Circuits | BLK-18-S+    | 1             | 12/16/2020 | 12/15/2021 |
| DC Block                                  | Mini-Circuits | BLK-18-S+    | 1             | 12/14/2021 | 12/13/2022 |

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**6.3 Radiated Measurement**

| Radiated Emission Test Site: SAC 3 |                 |                 |               |            |            |
|------------------------------------|-----------------|-----------------|---------------|------------|------------|
| EQUIPMENT TYPE                     | MFR             | MODEL NUMBER    | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Horn Antenna                       | SCHWARZBECK     | BBHA9170        | 184           | 12/11/2020 | 12/10/2021 |
| Horn Antenna                       | SCHWARZBECK     | BBHA9120D       | 1441          | 09/27/2021 | 09/26/2022 |
| Bi-log Antenna                     | SCHWARZBECK     | VULB9168        | 378           | 08/20/2021 | 08/19/2022 |
| Loop Antenna                       | ETS.LINDGREN    | 6502            | 148045        | 09/29/2021 | 09/28/2022 |
| PXA Spectrum Analyzer              | Agilent         | N9030A          | MY53120760    | 04/27/2021 | 04/26/2022 |
| EMI Test Receiver                  | R&S             | ESCI 7          | 100759        | 08/26/2021 | 08/25/2022 |
| Pre-Amplifier                      | HP              | 8449B           | 3008A00578    | 12/16/2020 | 12/15/2021 |
| Pre-Amplifier                      | EMC Instruments | EMC184045B      | 980135        | 10/27/2021 | 10/26/2022 |
| Pre-Amplifier                      | HP              | 8447D           | 2944A07676    | 12/16/2020 | 12/15/2021 |
| Attenuator                         | Mini-Circuit    | BW-S10W2+       | 4             | 12/16/2020 | 12/15/2021 |
| Filter 5150-5350 MHz               | Micro-Tronics   | BRM50703        | 1             | 12/16/2020 | 12/15/2021 |
| Filter 5470-5725 MHz               | Micro-Tronics   | BRM50704        | 1             | 12/16/2020 | 12/15/2021 |
| Filter 5725-5875 MHz               | Micro-Tronics   | BRM50705        | 1             | 12/16/2020 | 12/15/2021 |
| High Pass Filter                   | WI              | WHKX7.0/18G-8SS | 45            | 12/16/2020 | 12/15/2021 |
| Coaxial Cable                      | Huber Suhner    | SUCOFLEX 102    | MY2636/2      | 12/16/2020 | 12/15/2021 |
| Coaxial Cable                      | Huber Suhner    | SUCOFLEX 104    | 340057/4      | 12/16/2020 | 12/15/2021 |
| Coaxial Cable                      | Huber Suhner    | SUCOFLEX 104PEA | 800052/2      | 12/16/2020 | 12/15/2021 |
| Coaxial Cable                      | Huber Suhner    | SUCOFLEX 102    | MY2621/2      | 12/16/2020 | 12/15/2021 |
| Coaxial Cable                      | Huber Suhner    | SUCOFLEX 102    | MY2617/2      | 12/16/2020 | 12/15/2021 |
| Coaxial Cable                      | Huber Suhner    | SUCOFLEX 102    | MY2630/2      | 12/16/2020 | 12/15/2021 |
| Coaxial Cable                      | Huber Suhner    | SUCOFLEX 102    | MY22962/2     | 12/16/2020 | 12/15/2021 |
| Site Cal                           | SGS             | SAC 3           | N/A           | 01/01/2021 | 12/31/2021 |

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## 7 CONDUCTED EMISSION TEST

### 7.1 Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

| Frequency range<br>MHz | Limits<br>(dBuV) |          |
|------------------------|------------------|----------|
|                        | Quasi-peak       | Average  |
| 0.15 to 0.50           | 66 to 56         | 56 to 46 |
| 0.50 to 5              | 56               | 46       |
| 5 to 30                | 60               | 50       |

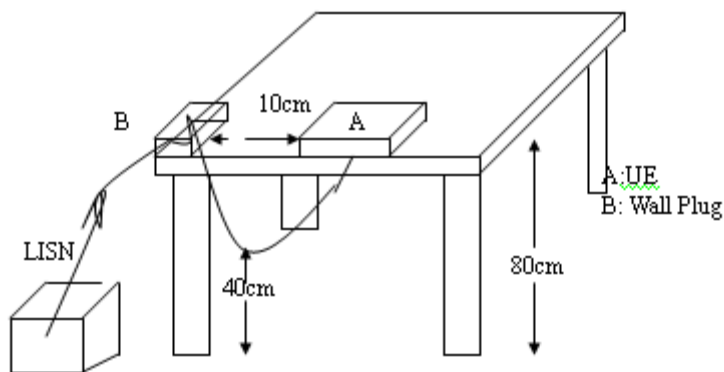
Note

- The lower limit shall apply at the transition frequencies
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 7.2 EUT Setup

- The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
- The LISN was connected with 120Vac/60Hz power source.

### 7.3 Test SET-UP



### 7.4 Measurement Procedure

- The EUT was placed on a table which is 0.8m above ground plane.
- Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- Repeat above procedures until all phases of power being supplied by given UE are completed.

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## 7.5 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The \* reveals the worst-case results that closet to the limit.

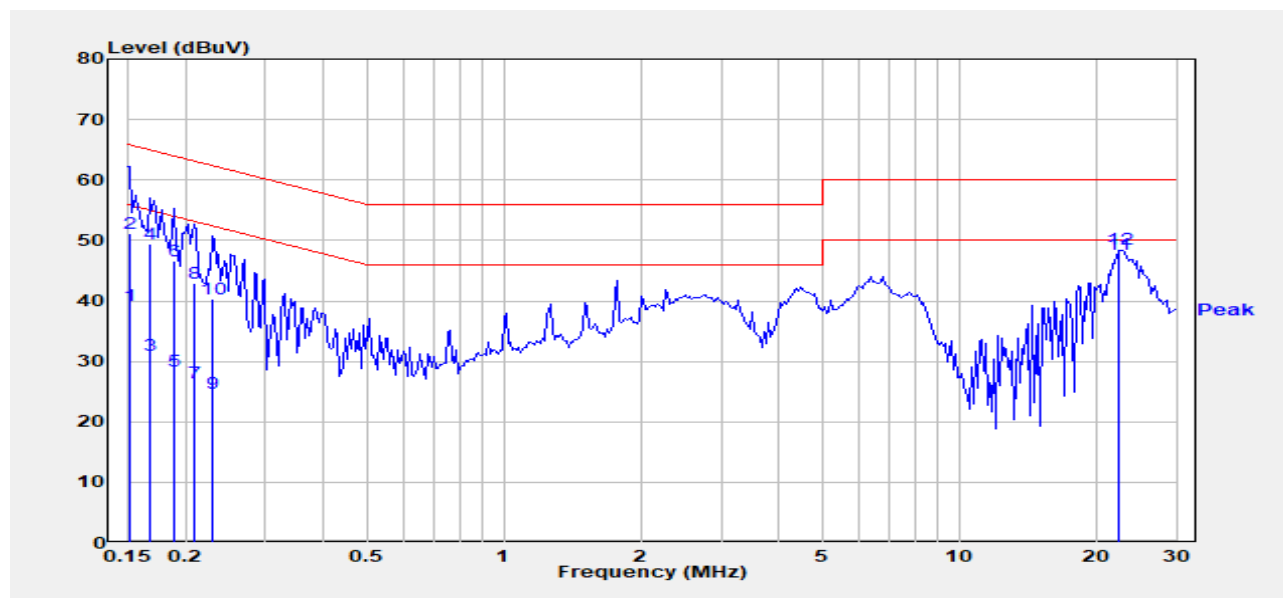
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### AC POWER LINE CONDUCTED EMISSION TEST DATA

|               |                |             |               |
|---------------|----------------|-------------|---------------|
| Report Number | :ER-2021-A0108 | Test Site   | :Conduction 1 |
| Test Mode     | :WLAN5G        | Test Date   | :2021-12-02   |
| Power         | :AC 120V       | Temp./Humi. | :20.8/56      |
| Probe         | :L             | Engineer    | :Jack Liu     |
| Note:         | :              |             |               |



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V | Limit<br>dB $\mu$ V | Margin<br>dB |
|--------------|------------------------------|---|--------------|----------------------------|---------------------|--------------|
| 0.151        | Average                      | 37.21                                   | 2.12         | 39.33                      | 55.94               | -16.61       |
| 0.151        | QP                           | 49.01                                   | 2.12         | 51.13                      | 65.94               | -14.81       |
| 0.167        | Average                      | 28.81                                   | 2.12         | 30.93                      | 55.13               | -24.20       |
| 0.167        | QP                           | 47.28                                   | 2.12         | 49.40                      | 65.13               | -15.73       |
| 0.189        | Average                      | 26.33                                   | 2.12         | 28.45                      | 54.06               | -25.61       |
| 0.189        | QP                           | 44.51                                   | 2.12         | 46.63                      | 64.06               | -17.43       |
| 0.208        | Average                      | 24.41                                   | 2.12         | 26.53                      | 53.27               | -26.74       |
| 0.208        | QP                           | 40.89                                   | 2.12         | 43.01                      | 63.27               | -20.26       |
| 0.229        | Average                      | 22.62                                   | 2.12         | 24.74                      | 52.48               | -27.74       |
| 0.229        | QP                           | 38.22                                   | 2.12         | 40.34                      | 62.48               | -22.14       |
| 22.438       | Average                      | 45.31                                   | 2.33         | 47.64                      | 50.00               | -2.36        |
| 22.438       | QP                           | 46.19                                   | 2.33         | 48.52                      | 60.00               | -11.48       |

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Report Number :ER-2021-A0108

Test Site :Conduction 1

Test Mode :WLAN5G

Test Date :2021-12-02

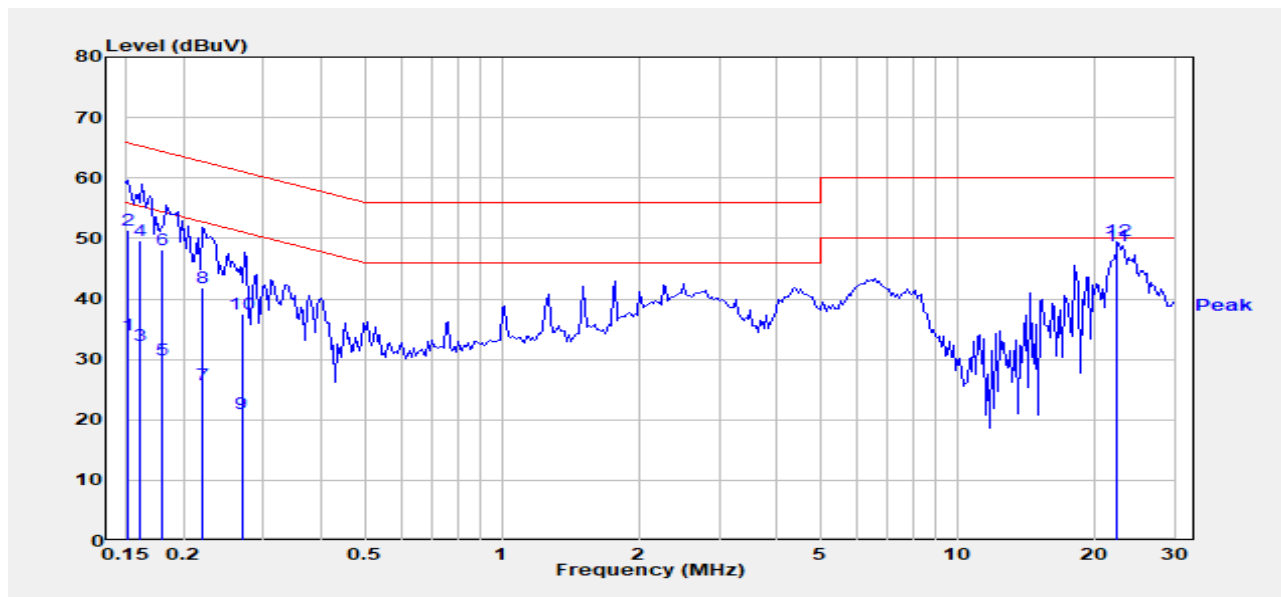
Power :AC 120V

Temp./Humi. :20.8/56

Probe :L

Engineer :Jack Liu

Note: :



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V | Limit<br>dB $\mu$ V | Margin<br>dB |
|--------------|------------------------------|---|--------------|----------------------------|---------------------|--------------|
| 0.152        | Average                      | 31.82                                   | 2.13         | 33.95                      | 55.91               | -21.97       |
| 0.152        | QP                           | 49.16                                   | 2.13         | 51.29                      | 65.91               | -14.63       |
| 0.161        | Average                      | 30.15                                   | 2.17         | 32.32                      | 55.40               | -23.09       |
| 0.161        | QP                           | 47.48                                   | 2.17         | 49.65                      | 65.40               | -15.76       |
| 0.179        | Average                      | 27.73                                   | 2.23         | 29.96                      | 54.52               | -24.55       |
| 0.179        | QP                           | 45.96                                   | 2.23         | 48.19                      | 64.52               | -16.32       |
| 0.220        | Average                      | 23.56                                   | 2.28         | 25.84                      | 52.82               | -26.99       |
| 0.220        | QP                           | 39.57                                   | 2.28         | 41.85                      | 62.82               | -20.98       |
| 0.268        | Average                      | 18.86                                   | 2.22         | 21.08                      | 51.17               | -30.08       |
| 0.268        | QP                           | 35.27                                   | 2.22         | 37.49                      | 61.17               | -23.67       |
| 22.437       | Average                      | 46.53                                   | 2.33         | 48.86                      | 50.00               | -1.14        |
| 22.437       | QP                           | 47.42                                   | 2.33         | 49.75                      | 60.00               | -10.25       |

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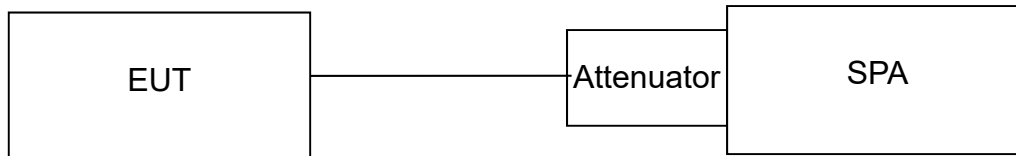
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## 8 EMISSION BANDWIDTH MEASUREMENT

### 8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.  
The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

### 8.2 Test Setup



### 8.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
  - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW  
Sweep=auto,  
Detector = Peak,  
Trace Mode = Max Hold,  
Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
  - 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
  - a. Set the spectrum analyzer as  
RBW = 100 kHz,  
VBW = 3\*RBW,  
Span = large enough to capture all products of the modulation process,  
Detector=Peak,  
Sweep=auto
  - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. Repeat above procedures until all frequency of interest measured was complete.

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## 8.4 Measurement Result

### 8.4.1 FCC Occupied Bandwidth

802.11n\_HT20\_Ch0

| Freq. (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|-------------|---------------|-----------------|
| 5180        | 20.24         | 13.060          |
| 5220        | 20.21         | 13.060          |
| 5240        | 20.11         | 13.030          |
| 5260        | 20.01         | 13.010          |
| 5300        | 20.08         | 13.030          |
| 5320        | 20.22         | 13.060          |
| 5500        | 20.02         | 13.010          |
| 5580        | 20.02         | 13.010          |
| 5700        | 20.10         | 13.030          |

802.11n\_HT20\_Ch0

| Freq. (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-------------|--------------|-----------------|
| 5745        | 17.71        | 12.480          |
| 5785        | 17.64        | 12.460          |
| 5825        | 17.69        | 12.480          |

802.11n\_HT20\_Ch0

| Freq. (MHz) | Measured Freq. (MHz) | Limit (MHz) |
|-------------|----------------------|-------------|
| 5240        | 5248.79              | < 5250      |
| 5745        | 5736.15              | > 5725      |

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802.11n\_HT20\_Ch1

| Freq. (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|-------------|---------------|-----------------|
| 5180        | 19.91         | 12.990          |
| 5220        | 19.80         | 12.970          |
| 5240        | 19.77         | 12.960          |
| 5260        | 19.97         | 13.000          |
| 5300        | 19.76         | 12.960          |
| 5320        | 19.87         | 12.980          |
| 5500        | 19.81         | 12.970          |
| 5580        | 19.89         | 12.990          |
| 5700        | 19.72         | 12.950          |

802.11n\_HT20\_Ch1

| Freq. (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-------------|--------------|-----------------|
| 5745        | 17.63        | 12.460          |
| 5785        | 17.63        | 12.460          |
| 5825        | 17.68        | 12.470          |

802.11n\_HT20\_Ch1

| Freq. (MHz) | Measured Freq. (MHz) | Limit (MHz) |
|-------------|----------------------|-------------|
| 5240        | 5248.76              | < 5250      |
| 5745        | 5736.16              | > 5725      |

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802.11n\_HT40\_Ch0

| Freq. (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|-------------|---------------|-----------------|
| 5190        | 40.37         | 16.060          |
| 5230        | 40.04         | 16.020          |
| 5270        | 39.87         | 16.010          |
| 5310        | 40.48         | 16.070          |
| 5510        | 40.03         | 16.020          |
| 5550        | 40.77         | 16.100          |
| 5670        | 40.24         | 16.050          |

802.11n\_HT40\_Ch0

| Freq. (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-------------|--------------|-----------------|
| 5755        | 36.38        | 15.610          |
| 5795        | 36.35        | 15.610          |

802.11n\_HT40\_Ch0

| Freq. (MHz) | Measured Freq. (MHz) | Limit (MHz) |
|-------------|----------------------|-------------|
| 5230        | 5247.98              | < 5250      |
| 5755        | 5736.95              | > 5725      |

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802.11n\_HT40\_Ch1

| Freq. (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|-------------|---------------|-----------------|
| 5190        | 39.91         | 16.010          |
| 5230        | 39.65         | 15.980          |
| 5270        | 40.03         | 16.020          |
| 5310        | 39.67         | 15.980          |
| 5510        | 39.98         | 16.020          |
| 5550        | 39.92         | 16.010          |
| 5670        | 40.01         | 16.020          |

802.11n\_HT40\_Ch1

| Freq. (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-------------|--------------|-----------------|
| 5755        | 35.97        | 15.560          |
| 5795        | 35.70        | 15.530          |

802.11n\_HT40\_Ch1

| Freq. (MHz) | Measured Freq. (MHz) | Limit (MHz) |
|-------------|----------------------|-------------|
| 5230        | 5247.94              | < 5250      |
| 5755        | 5736.94              | > 5725      |

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802.11ac\_VHT80\_Ch0

| Freq. (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|-------------|---------------|-----------------|
| 5210        | 80.34         | 19.050          |
| 5290        | 80.58         | 19.060          |
| 5530        | 80.55         | 19.060          |
| 5610        | 80.30         | 19.050          |

802.11ac\_VHT80\_Ch0

| Freq. (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-------------|--------------|-----------------|
| 5775        | 75.23        | 18.760          |

802.11ac\_VHT80\_Ch0

| Freq. (MHz) | Measured Freq. (MHz) | Limit (MHz) |
|-------------|----------------------|-------------|
| 5210        | 5247.32              | < 5250      |
| 5775        | 5737.41              | > 5725      |

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802.11ac\_VHT80\_Ch1

| Freq. (MHz) | 26dB BW (MHz) | 10 Log (B) (dB) |
|-------------|---------------|-----------------|
| 5210        | 79.55         | 19.010          |
| 5290        | 80.07         | 19.030          |
| 5530        | 79.71         | 19.020          |
| 5610        | 79.92         | 19.030          |

802.11ac\_VHT80\_Ch1

| Freq. (MHz) | 6dB BW (MHz) | 10 Log (B) (dB) |
|-------------|--------------|-----------------|
| 5775        | 75.07        | 18.750          |

802.11ac\_VHT80\_Ch1

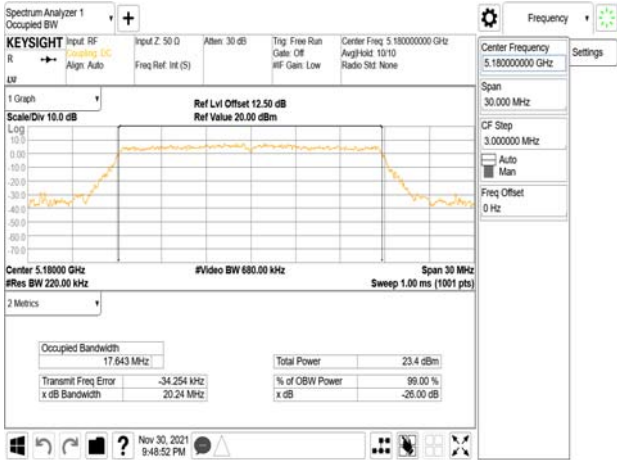
| Freq. (MHz) | Measured Freq. (MHz) | Limit (MHz) |
|-------------|----------------------|-------------|
| 5210        | 5247.32              | < 5250      |
| 5775        | 5737.35              | > 5725      |

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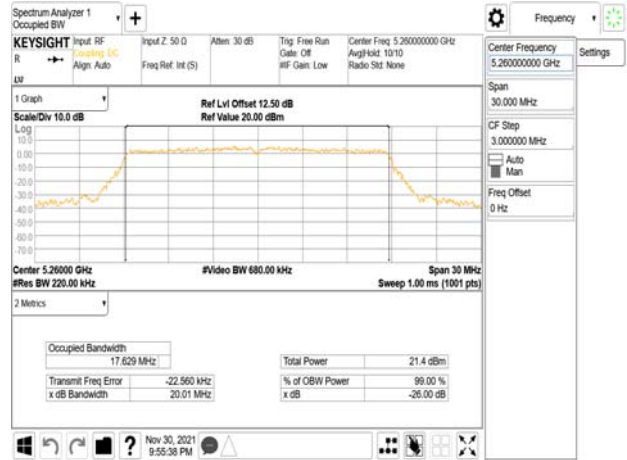
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802.11n\_20MHz\_Chain0\_5180MHz



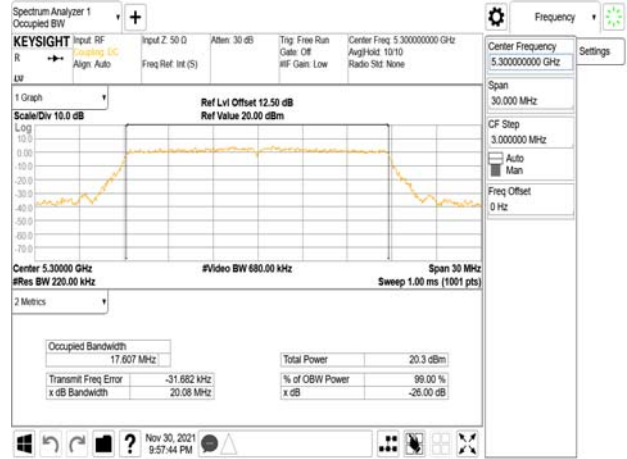
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802.11n\_20MHz\_Chain0\_5220MHz



802.11n\_20MHz\_Chain0\_5300MHz



802.11n\_20MHz\_Chain0\_5240MHz



802.11n\_20MHz\_Chain0\_5320MHz

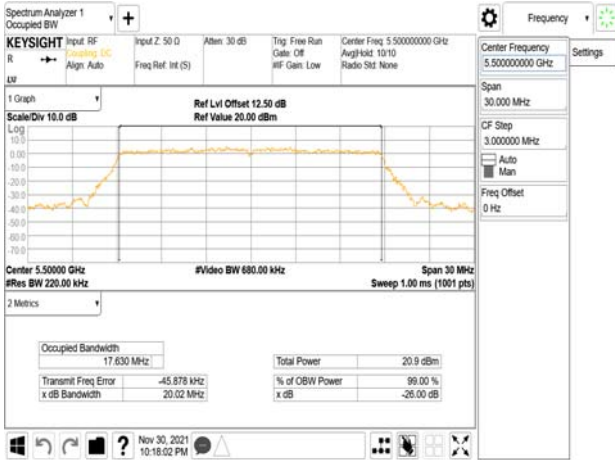


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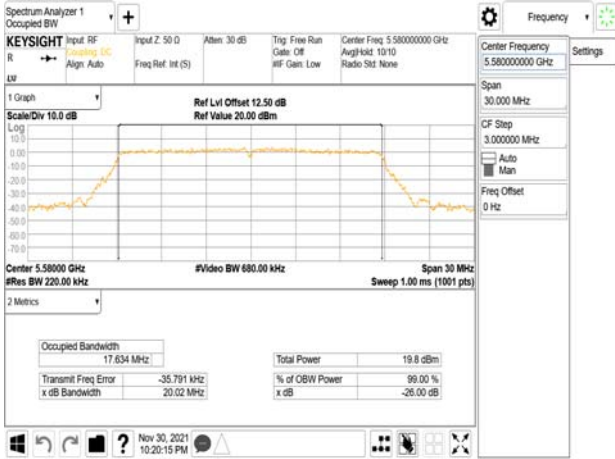
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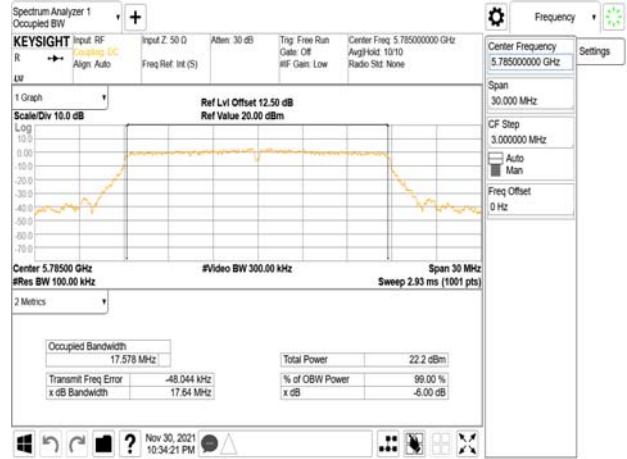
802.11n\_20MHz\_Chain0\_5745MHz



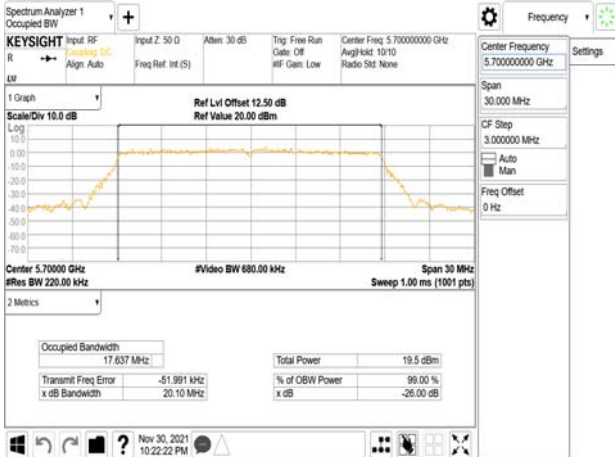
802.11n\_20MHz\_Chain0\_5580MHz



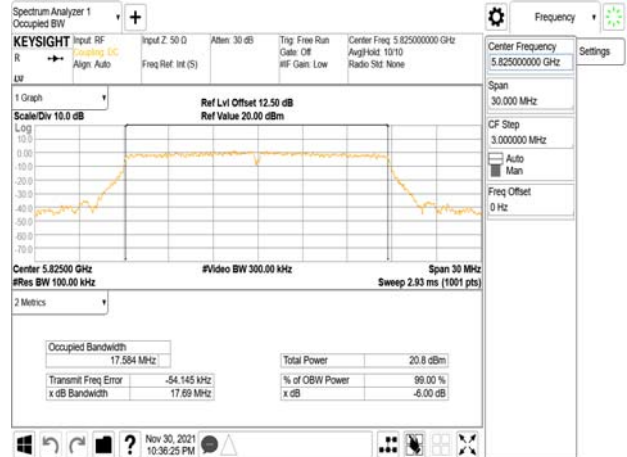
802.11n\_20MHz\_Chain0\_5785MHz



802.11n\_20MHz\_Chain0\_5700MHz



802.11n\_20MHz\_Chain0\_5825MHz

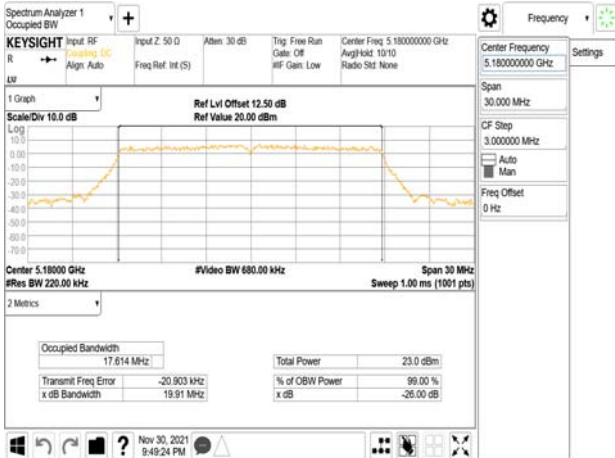


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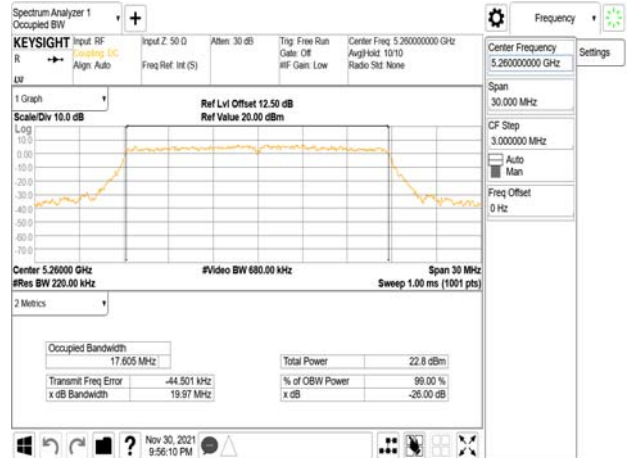
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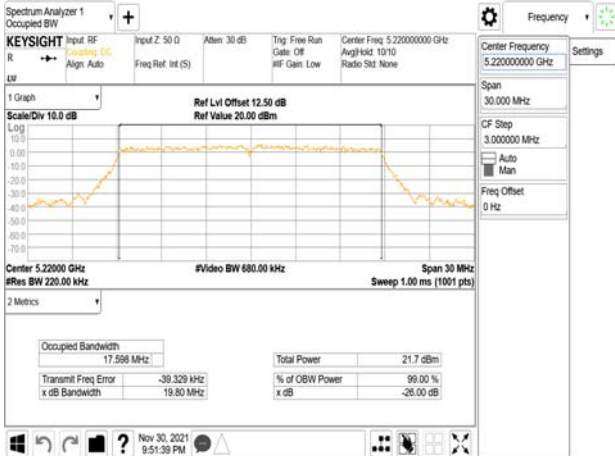
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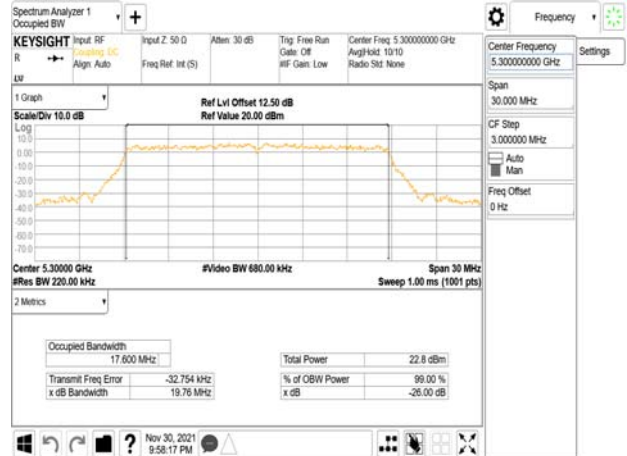
802.11n\_20MHz\_Chain1\_5260MHz



802.11n\_20MHz\_Chain1\_5220MHz



802.11n\_20MHz\_Chain1\_5300MHz



802.11n\_20MHz\_Chain1\_5240MHz



802.11n\_20MHz\_Chain1\_5320MHz



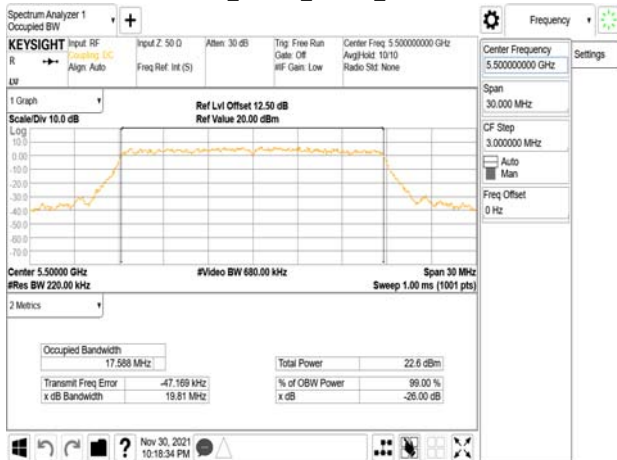
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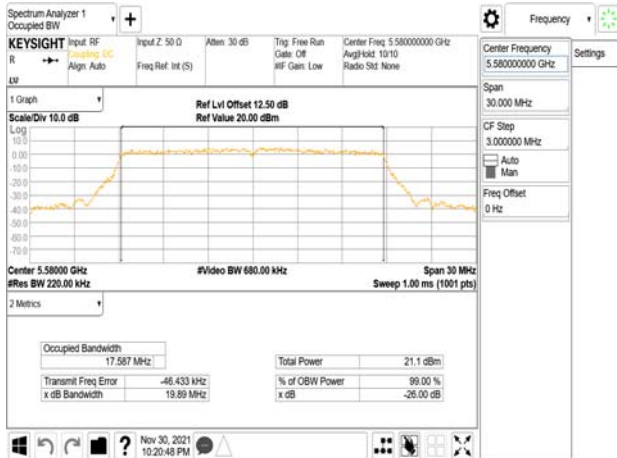
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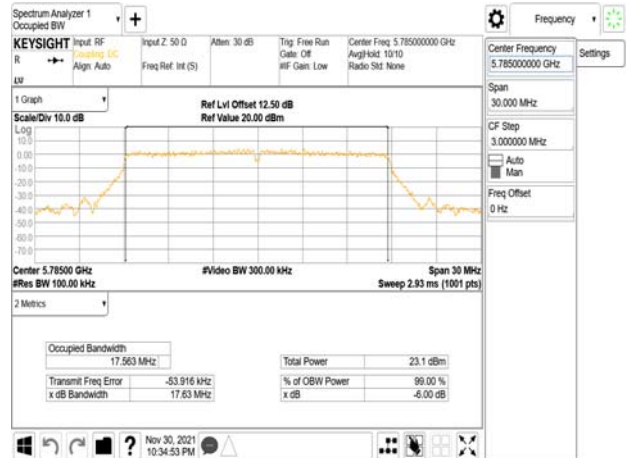
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802.11n\_20MHz\_Chain1\_5580MHz



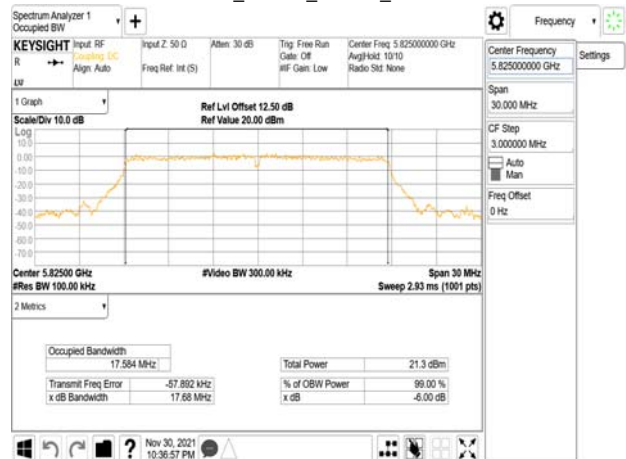
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802.11n\_20MHz\_Chain1\_5700MHz



802.11n\_20MHz\_Chain1\_5825MHz



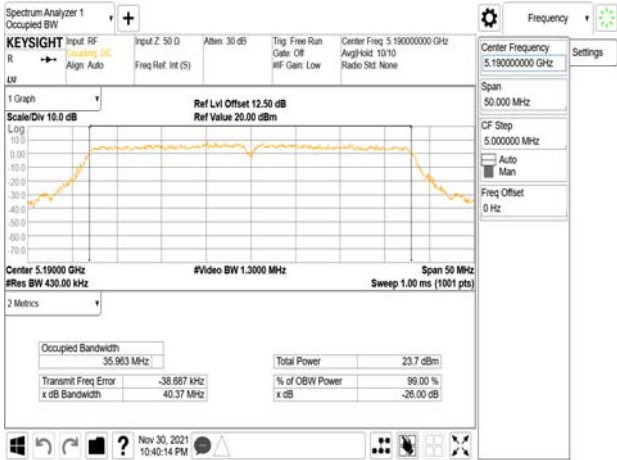
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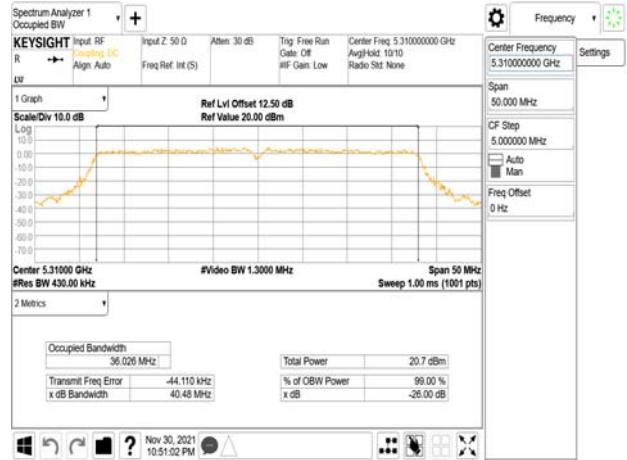
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802.11n\_40MHz\_Chain0\_5190MHz



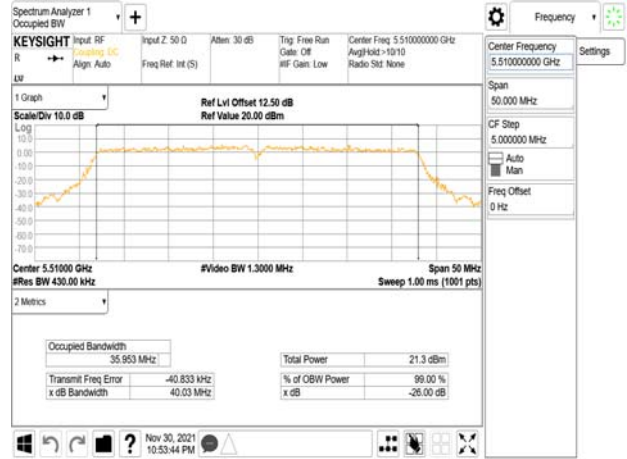
802.11n\_40MHz\_Chain0\_5310MHz



802.11n\_40MHz\_Chain0\_5230MHz



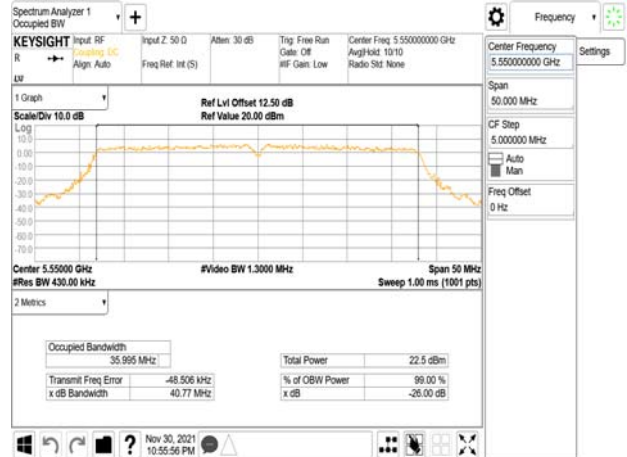
802.11n\_40MHz\_Chain0\_5510MHz



802.11n\_40MHz\_Chain0\_5270MHz



802.11n\_40MHz\_Chain0\_5550MHz

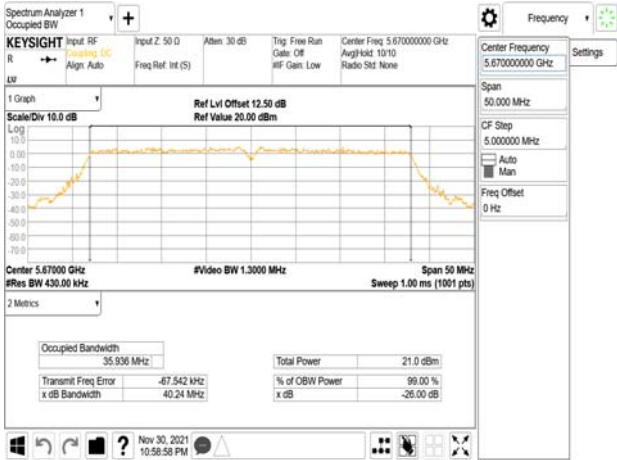


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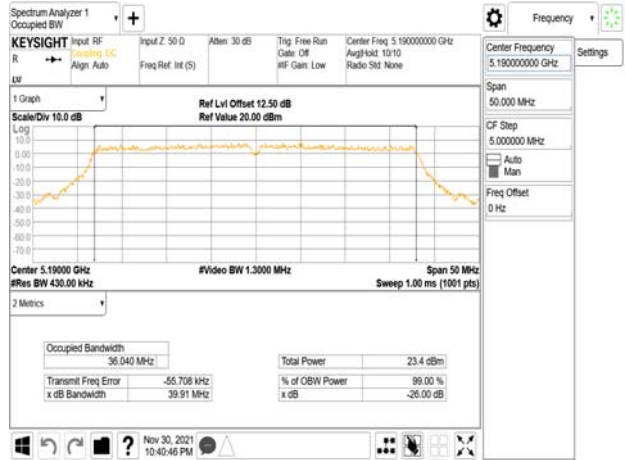
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802.11n\_40MHz\_Chain0\_5670MHz



802.11n\_40MHz\_Chain1\_5190MHz



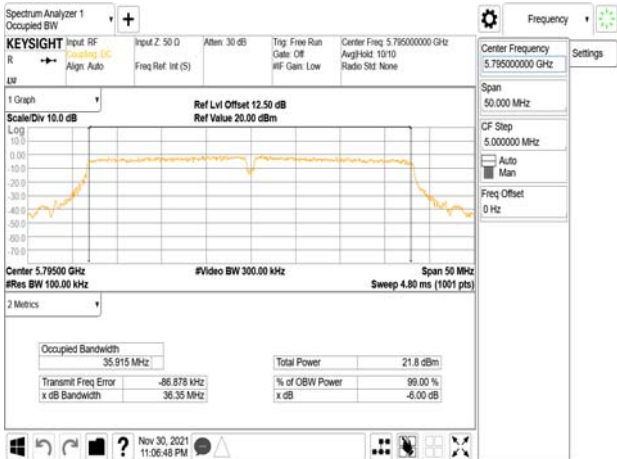
802.11n\_40MHz\_Chain0\_5755MHz



802.11n\_40MHz\_Chain1\_5230MHz



802.11n\_40MHz\_Chain0\_5795MHz



802.11n\_40MHz\_Chain1\_5270MHz



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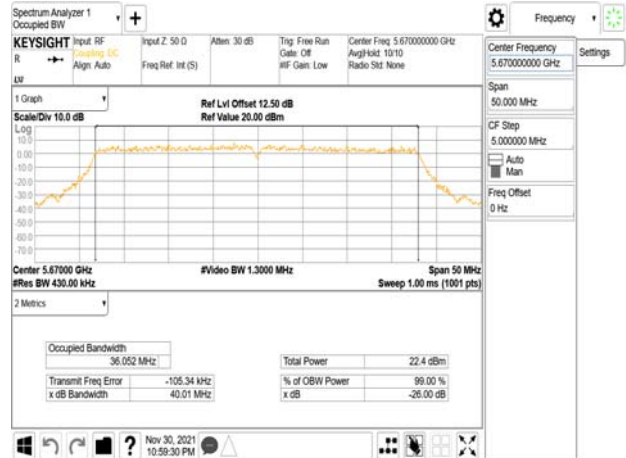
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802.11n\_40MHz\_Chain1\_5310MHz



802.11n\_40MHz\_Chain1\_5670MHz



802.11n\_40MHz\_Chain1\_5510MHz



802.11n\_40MHz\_Chain1\_5755MHz



802.11n\_40MHz\_Chain1\_5550MHz



802.11n\_40MHz\_Chain1\_5795MHz



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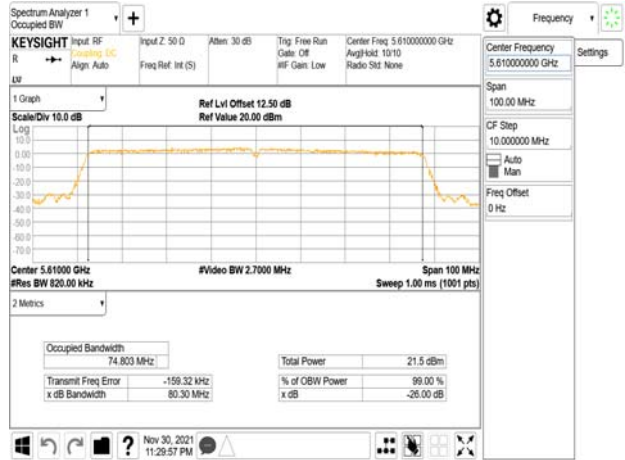
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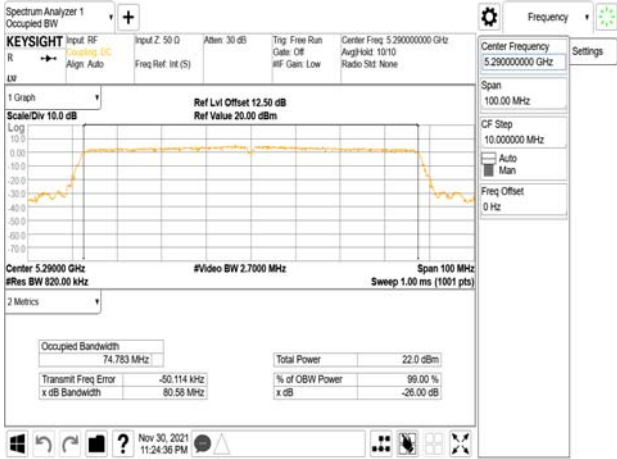
802.11ac\_80MHz\_Chain0\_5210MHz



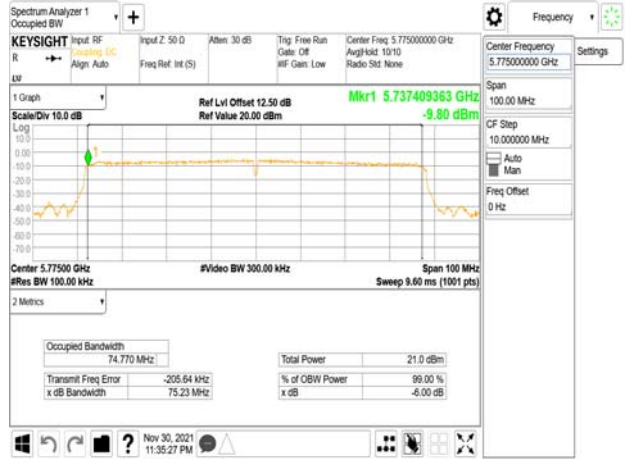
802.11ac\_80MHz\_Chain0\_5610MHz



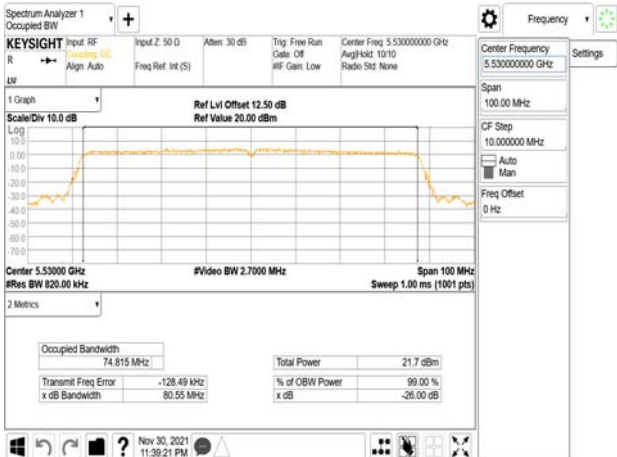
802.11ac\_80MHz\_Chain0\_5290MHz



802.11ac\_80MHz\_Chain0\_5775MHz



802.11ac\_80MHz\_Chain0\_5530MHz



802.11ac\_80MHz\_Chain1\_5210MHz



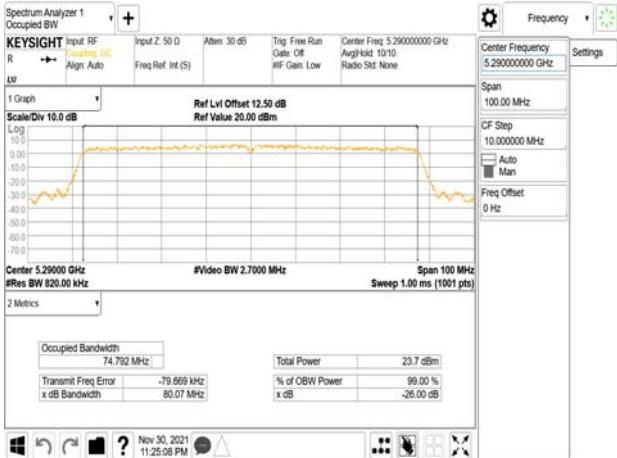
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802.11ac\_80MHz\_Chain1\_5290MHz



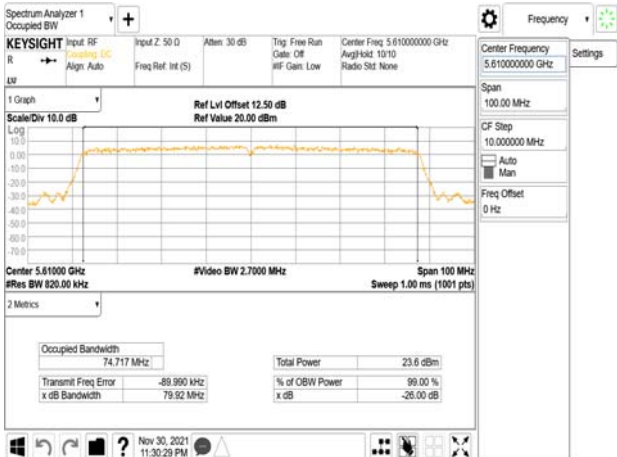
802.11ac\_80MHz\_Chain1\_5775MHz



802.11ac\_80MHz\_Chain1\_5530MHz



802.11ac\_80MHz\_Chain1\_5610MHz



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## 9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 9.1 Standard Applicable

#### 9.1.1 Duty Cycle

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

#### 9.1.2 Output Power

| Band     | EUT CATEGORY |                      | e-CRF Title 47 §15.407            |  |  |                                       |
|----------|--------------|----------------------|-----------------------------------|--|--|---------------------------------------|
|          |              |                      | Conducted Output Power            | EIRP   | TPC  | Antenna Directional Gain Requirements |
| U-NII-1  |              | Fixed point-to-point | 1 Watt(30dBm)                     | Not required                                   | Not required   | 23dBi                                 |
|          |              | Outdoor AP           | 1 Watt(30dBm)                     | Elevation angle above 30 degrees 125mW (21dBm) | Not required   | 6dBi                                  |
|          | V            | Indoor AP            | 1 Watt(30dBm)                     | Not required                                   | Not required   | 6dBi                                  |
|          | V            | Other                | 250mW(23.98dBm)                   | Not required                                   | Not required   | 6dBi                                  |
| U-NII-2A | V            | Other                | 250mW(23.98dBm) or 11dBm+10 log B | Not required                                   | When EIRP >500mW<br>At least 6dB below EIRP 1W (30dBm) | 6dBi                                  |
| U-NII-2C | V            | Other                | 250mW(23.98dBm) or 11dBm+10 log B | Not required                                   |  | 6dBi                                  |
| U-NII-3  | V            | Other                | 1 Watt(30dBm)                     | Not required                                   | Not required   | 6dBi                                  |
|          |              | Fixed point-to-point | 1 Watt(30dBm)                     | Not required                                   | Not required   | Not required                          |

1. If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.

2. For the 10 log B, B is the 26 dB emission bandwidth.

Note: Other is the worst case in the report.

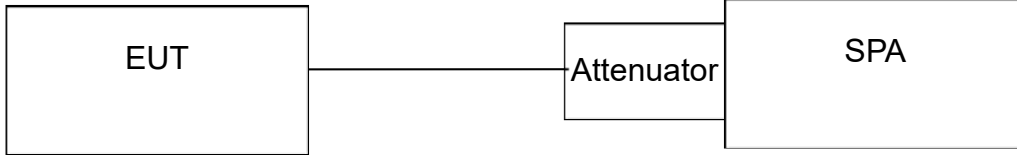
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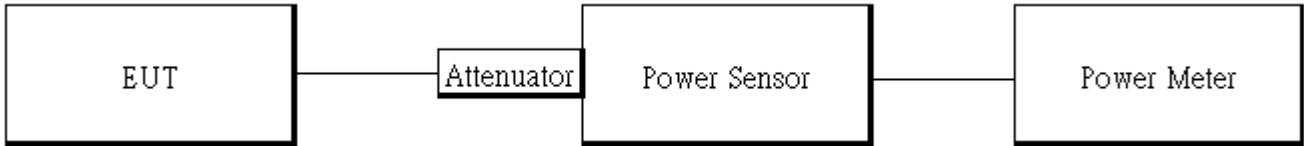
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## 9.2 Test Setup

### 9.2.1 Duty Cycle



### 9.2.2 Output Power



## 9.3 Measurement Procedure

### 9.3.1 Duty Cycle Measurements

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

### 9.3.2 Output Power Measurements

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add  $10 \log(1/\text{duty cycle})$ .
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
7. MIMO mode: offset is set with "measure and add  $10 \log(N)$ " to measurement for MIMO mode. Offset = cable loss +  $10 \log(N)$ , where N is number of transmitting antenna, cable loss is specified below.

|                        |
|------------------------|
| Cable Loss Offset (dB) |
| 10.7                   |

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9.4 Duty Cycle Measurement Result

| Mode        | Duty Cycle (%)<br>=Ton / (Ton+Toff) | Duty Factor (dB)<br>=10*log ( 1/Duty Cycle ) | 1/T<br>(kHz) | VBW<br>setting<br>(kHz) |
|-------------|-------------------------------------|--|--------------|-------------------------|
| 802.11n_20  | 100.00                              | 0.00   | 0.00         | 0.01                    |
| 802.11ac_20 | 100.00                              | 0.00   | 0.00         | 0.01                    |
| 802.11n_40  | 100.00                              | 0.00   | 0.00         | 0.01                    |
| 802.11ac_40 | 100.00                              | 0.00   | 0.00         | 0.01                    |
| 802.11ac_80 | 100.00                              | 0.00   | 0.00         | 0.01                    |

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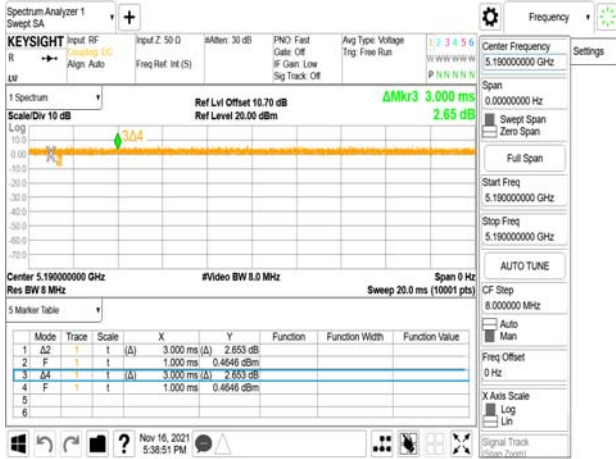
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802.11n\_20MHz\_Chain0\_5180MHz



802.11n\_40MHz\_Chain0\_5190MHz



802.11ac\_20MHz\_Chain0\_5180MHz



802.11ac\_40MHz\_Chain0\_5190MHz

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## 9.5 Output Power Measurement Result

### 9.5.1 FCC Output power

#### 802.11n\_HT20\_MIMO

| CH  | Frequency (MHz) | Data Rate | Power set | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |           | Ch0              | Ch1   |                   |                  |                      |        |
| 36  | 5180            | MCS8      | 30        | 17.89            | 17.75 | 20.83             | 121.060          | 22.46                | PASS   |
| 44  | 5220            | MCS8      | 30        | 18.44            | 17.21 | 20.88             | 122.462          | 22.46                | PASS   |
| 48  | 5240            | MCS8      | 30        | 18.52            | 17.14 | <b>20.89</b>      | 122.744          | 22.46                | PASS   |
| 52  | 5260            | MCS8      | 23        | 16.65            | 18.23 | <b>20.52</b>      | 112.720          | 22.46                | PASS   |
| 60  | 5300            | MCS8      | 23        | 15.91            | 18.37 | 20.32             | 107.647          | 22.46                | PASS   |
| 64  | 5320            | MCS8      | 23        | 15.98            | 18.39 | 20.36             | 108.643          | 22.46                | PASS   |
| 100 | 5500            | MCS8      | 23        | 16.85            | 18.45 | <b>20.73</b>      | 118.304          | 22.46                | PASS   |
| 116 | 5580            | MCS8      | 23        | 15.68            | 16.65 | 19.20             | 83.176           | 22.46                | PASS   |
| 140 | 5700            | MCS8      | 23        | 15.25            | 16.04 | 18.67             | 73.621           | 22.46                | PASS   |
| 149 | 5745            | MCS8      | 30        | 16.62            | 17.45 | <b>20.07</b>      | 101.625          | 28.48                | PASS   |
| 157 | 5785            | MCS8      | 30        | 16.71            | 17.32 | 20.04             | 100.925          | 28.48                | PASS   |
| 165 | 5825            | MCS8      | 30        | 15.77            | 16.04 | 18.92             | 77.983           | 28.48                | PASS   |

#### 802.11n\_HT40\_MIMO

| CH  | Frequency (MHz) | Data Rate | Power set | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |           | Ch0              | Ch1   |                   |                  |                      |        |
| 38  | 5190            | MCS8      | 30        | 17.92            | 17.82 | <b>20.88</b>      | 122.462          | 22.46                | PASS   |
| 46  | 5230            | MCS8      | 30        | 18.08            | 16.83 | 20.51             | 112.460          | 22.46                | PASS   |
| 54  | 5270            | MCS8      | 23        | 16.72            | 18.27 | <b>20.57</b>      | 114.025          | 22.46                | PASS   |
| 62  | 5310            | MCS8      | 23        | 15.9             | 18.35 | 20.31             | 107.399          | 22.46                | PASS   |
| 102 | 5510            | MCS8      | 23        | 16.71            | 18.41 | 20.65             | 116.145          | 22.46                | PASS   |
| 110 | 5550            | MCS8      | 23        | 17.7             | 17.88 | <b>20.80</b>      | 120.226          | 22.46                | PASS   |
| 134 | 5670            | MCS8      | 23        | 16.23            | 17.25 | 19.78             | 95.060           | 22.46                | PASS   |
| 151 | 5755            | MCS8      | 30        | 16.34            | 16.97 | 19.68             | 92.897           | 28.48                | PASS   |
| 159 | 5795            | MCS8      | 30        | 16.54            | 17.08 | <b>19.83</b>      | 96.161           | 28.48                | PASS   |

#### 802.11ac\_VHT20\_MIMO

| CH  | Frequency (MHz) | Data Rate | Power set | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |           | Ch0              | Ch1   |                   |                  |                      |        |
| 36  | 5180            | MCS0      | 30        | 17.85            | 17.72 | 20.80             | 120.226          | 22.46                | PASS   |
| 44  | 5220            | MCS0      | 30        | 18.41            | 17.16 | <b>20.84</b>      | 121.339          | 22.46                | PASS   |
| 48  | 5240            | MCS0      | 30        | 18.44            | 17.09 | 20.83             | 121.060          | 22.46                | PASS   |
| 52  | 5260            | MCS0      | 23        | 16.63            | 18.17 | <b>20.48</b>      | 111.686          | 22.46                | PASS   |
| 60  | 5300            | MCS0      | 23        | 15.88            | 18.33 | 20.29             | 106.905          | 22.46                | PASS   |
| 64  | 5320            | MCS0      | 23        | 15.96            | 18.31 | 20.30             | 107.152          | 22.46                | PASS   |
| 100 | 5500            | MCS0      | 23        | 16.8             | 18.37 | <b>20.67</b>      | 116.681          | 22.46                | PASS   |
| 116 | 5580            | MCS0      | 23        | 15.62            | 16.57 | 19.13             | 81.846           | 22.46                | PASS   |
| 140 | 5700            | MCS0      | 23        | 15.21            | 16    | 18.63             | 72.946           | 22.46                | PASS   |
| 149 | 5745            | MCS0      | 30        | 16.55            | 17.4  | <b>20.01</b>      | 100.231          | 28.48                | PASS   |
| 157 | 5785            | MCS0      | 30        | 16.64            | 17.25 | 19.97             | 99.312           | 28.48                | PASS   |
| 165 | 5825            | MCS0      | 30        | 15.73            | 15.98 | 18.87             | 77.090           | 28.48                | PASS   |

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802.11ac\_VHT40\_MIMO

| CH  | Frequency (MHz) | Data Rate | Power set | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |           | Ch0              | Ch1   |                   |                  |                      |        |
| 38  | 5190            | MCS0      | 30        | 17.86            | 17.77 | <b>20.83</b>      | 121.060          | 22.46                | PASS   |
| 46  | 5230            | MCS0      | 30        | 18.03            | 16.76 | 20.45             | 110.917          | 22.46                | PASS   |
| 54  | 5270            | MCS0      | 23        | 16.65            | 18.22 | <b>20.52</b>      | 112.720          | 22.46                | PASS   |
| 62  | 5310            | MCS0      | 23        | 15.84            | 18.29 | 20.25             | 105.925          | 22.46                | PASS   |
| 102 | 5510            | MCS0      | 23        | 16.64            | 18.37 | 20.60             | 114.815          | 22.46                | PASS   |
| 110 | 5550            | MCS0      | 23        | 17.66            | 17.83 | <b>20.76</b>      | 119.124          | 22.46                | PASS   |
| 134 | 5670            | MCS0      | 23        | 16.18            | 17.19 | 19.72             | 93.756           | 22.46                | PASS   |
| 151 | 5755            | MCS0      | 30        | 16.3             | 16.93 | 19.64             | 92.045           | 28.48                | PASS   |
| 159 | 5795            | MCS0      | 30        | 16.47            | 17.01 | <b>19.76</b>      | 94.624           | 28.48                | PASS   |

802.11ac\_VHT80\_MIMO

| CH  | Frequency (MHz) | Data Rate | Power set | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |           | Ch0              | Ch1   |                   |                  |                      |        |
| 42  | 5210            | MCS0      | 30        | 17.15            | 17.26 | <b>20.22</b>      | 105.196          | 22.46                | PASS   |
| 58  | 5290            | MCS0      | 23        | 16.08            | 17.57 | <b>19.90</b>      | 97.724           | 22.46                | PASS   |
| 106 | 5530            | MCS0      | 23        | 15.85            | 17.68 | <b>19.87</b>      | 97.051           | 22.46                | PASS   |
| 122 | 5610            | MCS0      | 23        | 15.82            | 17.06 | 19.49             | 88.920           | 22.46                | PASS   |
| 155 | 5775            | MCS0      | 30        | 16.69            | 17.52 | <b>20.14</b>      | 103.276          | 28.48                | PASS   |

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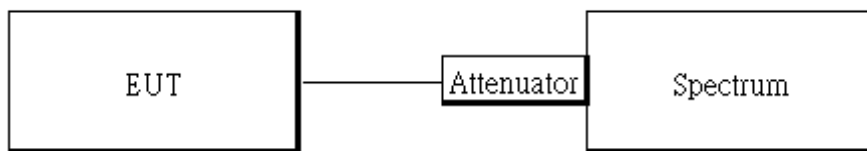
## 10 MAXIMUM POWER SPECTRAL DENSITY

### 10.1 Standard Applicable

| Operation Bands   | EUT CATEGORY |                                   | e-CRF Title 47 §15.407<br>Power Spectral Density                    | Antenna Directional Gain Requirements |
|---|--------------|-----------------------------------|---|---------------------------------------|
| U-NII-1   |              | Outdoor Access Point (Master)     | 1. 17dBm/ MHz<br>2. EIRP<=125mW(21dBm) at any elevation angle > 30° | 6dBi                                  |
|   | V            | Indoor Access Point (Master)      | 17dBm/ MHz  | 6dBi                                  |
|   |              | Fixed point-to-point Access Point | 17dBm/ MHz  | 23dBi                                 |
|   | V            | Client device                     | 11dBm/ MHz  | 6dBi                                  |
| U-NII-2A  | V            | All                               | 11dBm/ MHz  | 6dBi                                  |
| U-NII-2C  | V            | All                               | 11dBm/ MHz  | 6dBi                                  |
| U-NII-3   | V            | All                               | 30dBm/ 500kHz   | 6dBi                                  |
| <p>If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna.</p> |              |                                   |   |                                       |

Note: Client device is the worst case in the report.

### 10.2 Test Setup



### 10.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.

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2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**  
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
- For U-NII-3 Band:**  
Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.  
In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.
8. MIMO mode: offset is set with "measure and add 10 Log (N)" to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

|                        |
|------------------------|
| Cable Loss Offset (dB) |
| 10.7                   |

*Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.*

**Note:**

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;  
 NSS = the number of independent spatial streams of data;  
 NANT = the total number of antennas

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$g_{j,k} = / 20 \text{ 10Gk}$  if the kth antenna is being fed by spatial stream j, or zero if it is not;  
 $G_k$  is the gain in dBi of the kth antenna.

The antenna gain is grater than 6 dBi in MIMO mode, therefore the the power density limit auten-  
 uation has been applied in the test results.

### 10.4 Measurement Result

| POWER DENSITY 802.11n HT20 MODE |                           |                           |                  |                               |                                |                  |             |
|---------------------------------|---------------------------|---------------------------|------------------|-------------------------------|--------------------------------|------------------|-------------|
| Frequency (MHz)                 | Ch0 meas PSD (dBm/MHz)    | Ch1 meas PSD (dBm/MHz)    | Duty Factor (dB) | Maxmum Corr'd PSD(dBm/MHz)    |                                | Limit            | Margin (dB) |
| 5180                            | 6.290                     | 6.018                     | 0.00             | 9.166                         |                                | 9.48 dBm/MHz     | -0.31       |
| 5220                            | 5.984                     | 4.614                     | 0.00             | 8.363                         |                                | 9.48 dBm/MHz     | -1.12       |
| 5240                            | 6.889                     | 5.366                     | 0.00             | 9.204                         |                                | 9.48 dBm/MHz     | -0.28       |
| 5260                            | 5.372                     | 6.988                     | 0.00             | 9.265                         |                                | 9.48 dBm/MHz     | -0.21       |
| 5300                            | 3.819                     | 6.427                     | 0.00             | 8.326                         |                                | 9.48 dBm/MHz     | -1.15       |
| 5320                            | 3.900                     | 6.255                     | 0.00             | 8.246                         |                                | 9.48 dBm/MHz     | -1.23       |
| 5500                            | 4.798                     | 6.522                     | 0.00             | 8.755                         |                                | 9.48 dBm/MHz     | -0.72       |
| 5580                            | 3.773                     | 5.553                     | 0.00             | 7.764                         |                                | 9.48 dBm/MHz     | -1.72       |
| 5700                            | 3.823                     | 4.780                     | 0.00             | 7.338                         |                                | 9.48 dBm/MHz     | -2.14       |
| Frequency (MHz)                 | Ch0 meas PSD (dBm/300kHz) | Ch1 meas PSD (dBm/300kHz) | Duty Factor (dB) | 10log (500kHz/RBW) Factor(dB) | Maxmum Corr'd PSD(dBm/500kHz ) | Limit            | Margin (dB) |
| 5745                            | 0.616                     | 1.499                     | 0.00             | 2.22                          | 6.310                          | 28.48 dBm/500kHz | -22.17      |
| 5785                            | 0.890                     | 1.731                     | 0.00             | 2.22                          | 6.561                          | 28.48 dBm/500kHz | -21.92      |
| 5825                            | -0.241                    | -0.472                    | 0.00             | 2.22                          | 4.875                          | 28.48 dBm/500kHz | -23.60      |
| POWER DENSITY 802.11n HT40 MODE |                           |                           |                  |                               |                                |                  |             |
| Frequency (MHz)                 | Ch0 meas PSD (dBm/MHz)    | Ch1 meas PSD (dBm/MHz)    | Duty Factor (dB) | Maxmum Corr'd PSD(dBm/MHz)    |                                | Limit            | Margin (dB) |
| 5190                            | 3.959                     | 3.798                     | 0.00             | 6.890                         |                                | 9.48 dBm/MHz     | -2.59       |
| 5230                            | 3.592                     | 4.079                     | 0.00             | 6.853                         |                                | 9.48 dBm/MHz     | -2.63       |
| 5270                            | -1.620                    | 2.131                     | 0.00             | 3.659                         |                                | 9.48 dBm/MHz     | -5.82       |
| 5310                            | -3.402                    | 2.128                     | 0.00             | 3.200                         |                                | 9.48 dBm/MHz     | -6.28       |
| 5510                            | -3.987                    | 2.356                     | 0.00             | 3.263                         |                                | 9.48 dBm/MHz     | -6.22       |
| 5550                            | -2.972                    | 1.620                     | 0.00             | 2.915                         |                                | 9.48 dBm/MHz     | -6.57       |
| 5670                            | -3.358                    | 0.931                     | 0.00             | 2.306                         |                                | 9.48 dBm/MHz     | -7.17       |
| Frequency (MHz)                 | Ch0 meas PSD (dBm/300kHz) | Ch1 meas PSD (dBm/300kHz) | Duty Factor (dB) | 10log (500kHz/RBW) Factor(dB) | Maxmum Corr'd PSD(dBm/500kHz ) | Limit            | Margin (dB) |
| 5755                            | -6.831                    | -3.526                    | 0.00             | 2.22                          | 0.359                          | 28.48 dBm/500kHz | -28.12      |
| 5795                            | -6.380                    | -4.284                    | 0.00             | 2.22                          | 0.024                          | 28.48 dBm/500kHz | -28.46      |

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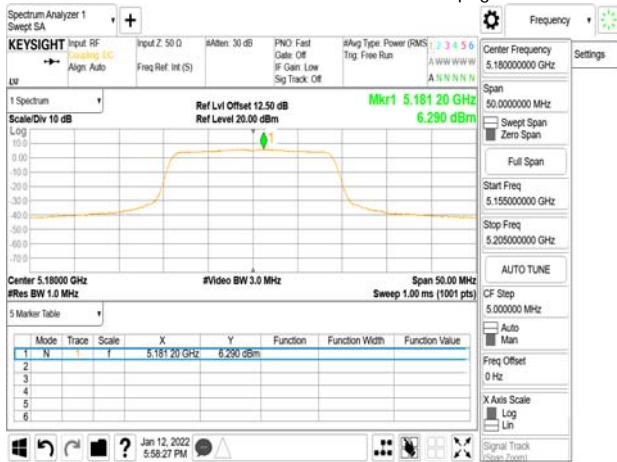
| POWER DENSITY 802.11ac VHT80 MODE |                           |                           |                  |                               |                                 |                  |             |
|-----------------------------------|---------------------------|---------------------------|------------------|-------------------------------|---------------------------------|------------------|-------------|
| Frequency (MHz)                   | Ch0 meas PSD (dBm/MHz)    | Ch1 meas PSD (dBm/MHz)    | Duty Factor (dB) | Maximum Corr'd PSD(dBm/MHz)   |                                 | Limit            | Margin (dB) |
| 5210                              | 0.424                     | -0.445                    | 0.00             | 3.021                         |                                 | 9.48 dBm/MHz     | -6.46       |
| 5290                              | -5.567                    | -1.766                    | 0.00             | -0.253                        |                                 | 9.48 dBm/MHz     | -9.73       |
| 5530                              | -7.495                    | -1.087                    | 0.00             | -0.193                        |                                 | 9.48 dBm/MHz     | -9.67       |
| 5610                              | -6.854                    | -1.793                    | 0.00             | -0.614                        |                                 | 9.48 dBm/MHz     | -10.09      |
| Frequency (MHz)                   | Ch0 meas PSD (dBm/300kHz) | Ch1 meas PSD (dBm/300kHz) | Duty Factor (dB) | 10log (500kHz/RBW) Factor(dB) | Maximum Corr'd PSD(dBm/500kHz ) | Limit            | Margin (dB) |
| 5775                              | -10.720                   | -8.032                    | 0.00             | 2.22                          | -3.941                          | 28.48 dBm/500kHz | -32.42      |

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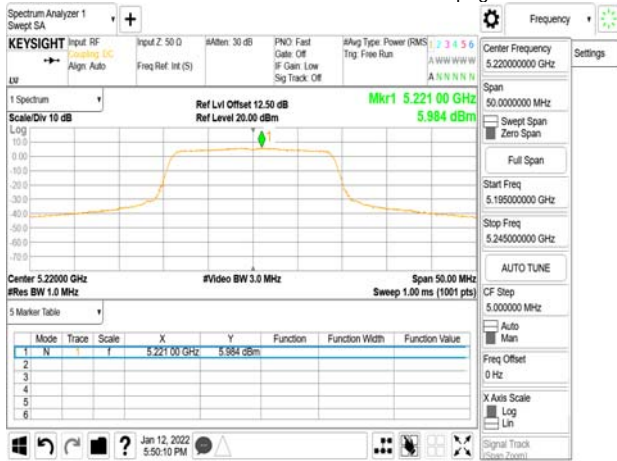
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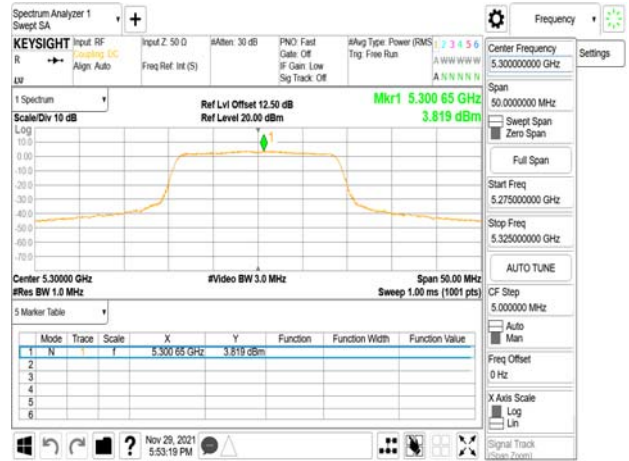
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802.11n\_20MHz\_Chain0\_5220MHz.png



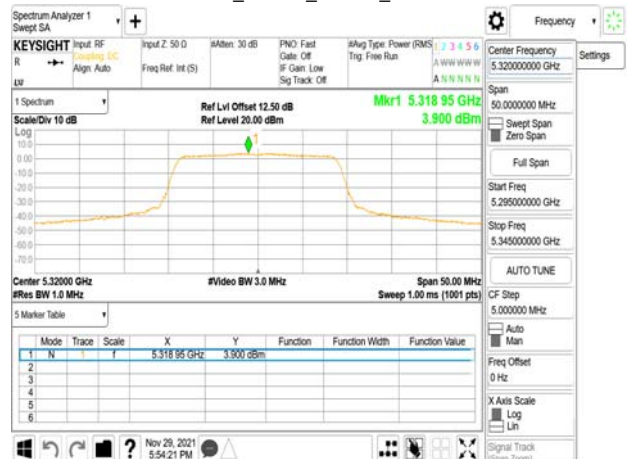
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802.11n\_20MHz\_Chain0\_5240MHz



802.11n\_20MHz\_Chain0\_5320MHz



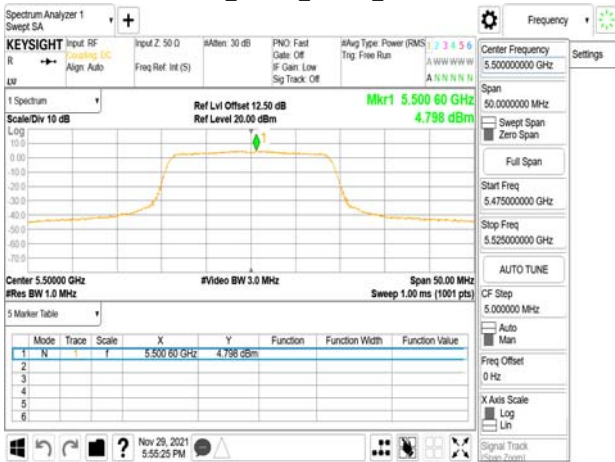
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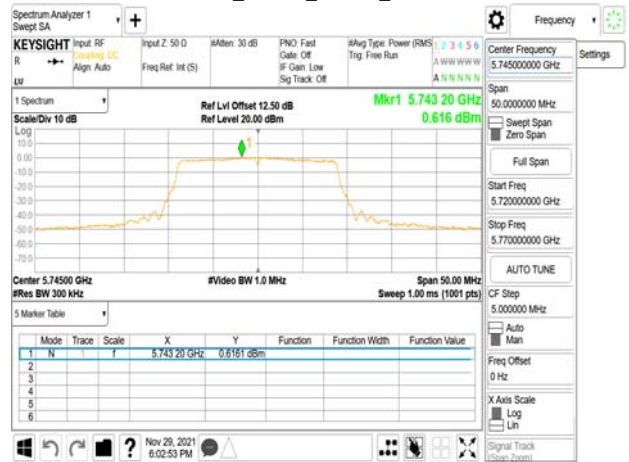
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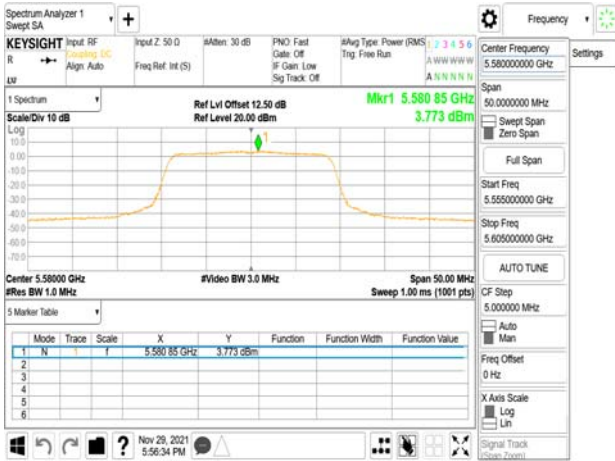
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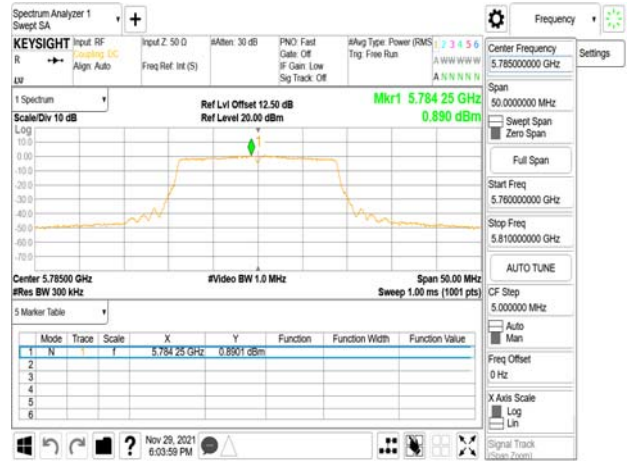
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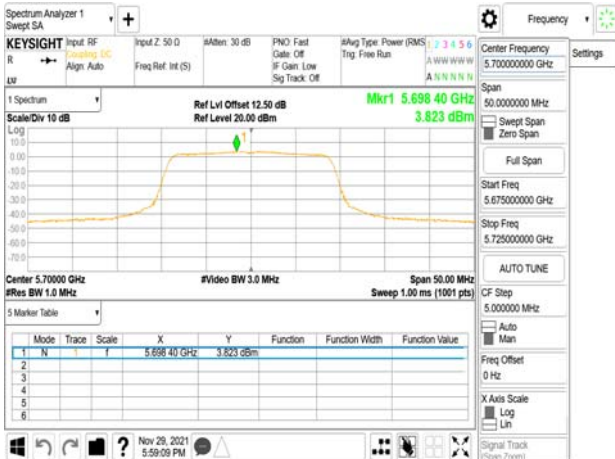
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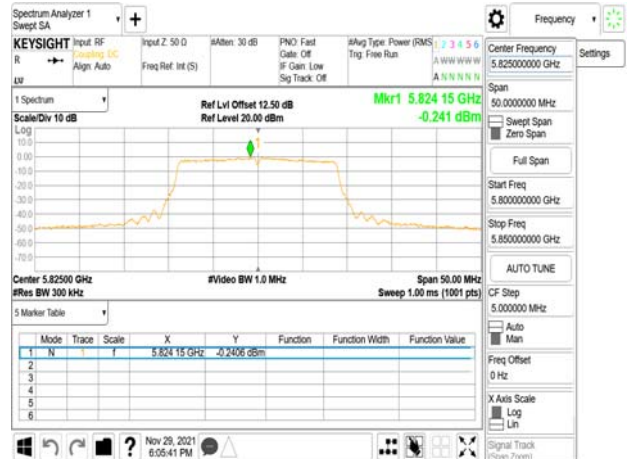
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802.11n\_20MHz\_Chain0\_5700MHz



802.11n\_20MHz\_Chain0\_5825MHz

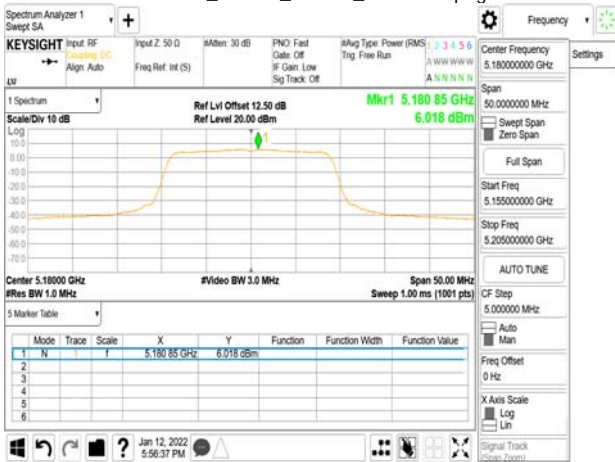


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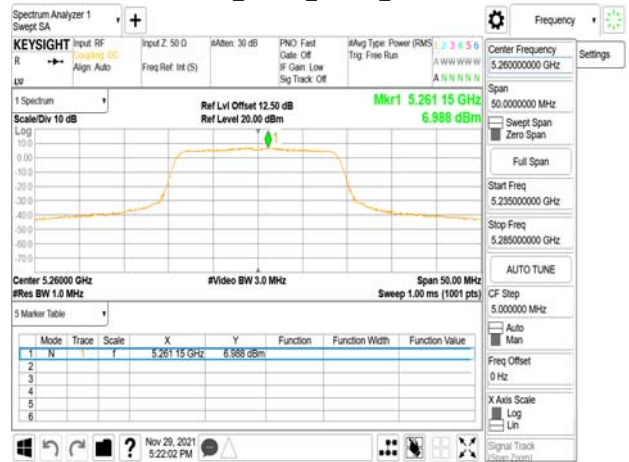
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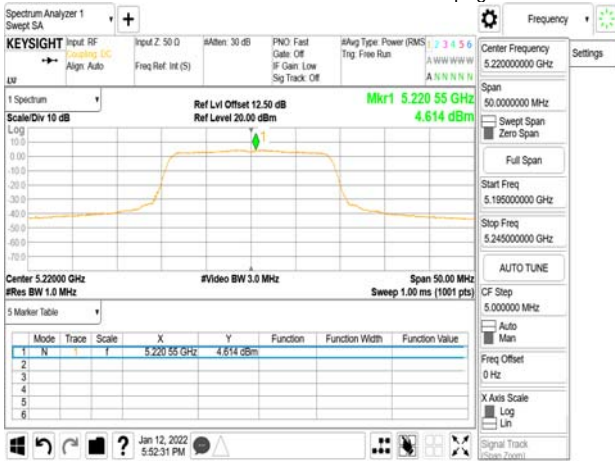
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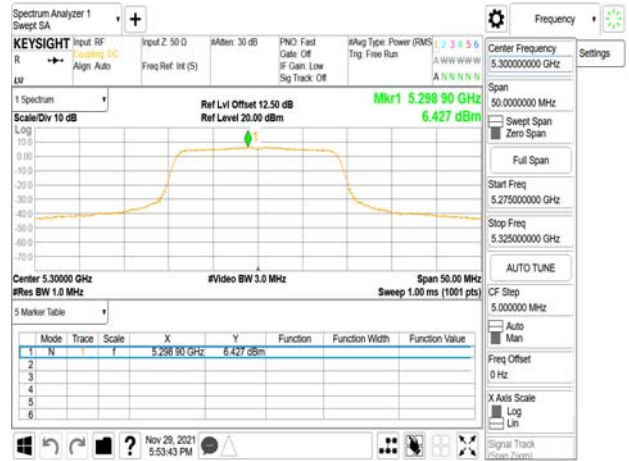
802.11n\_20MHz\_Chain1\_5260MHz



802.11n\_20MHz\_Chain1\_5220MHz.png



802.11n\_20MHz\_Chain1\_5300MHz



802.11n\_20MHz\_Chain1\_5240MHz



802.11n\_20MHz\_Chain1\_5320MHz



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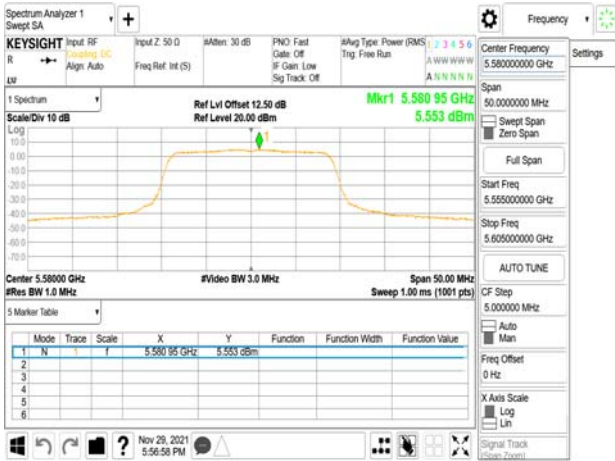
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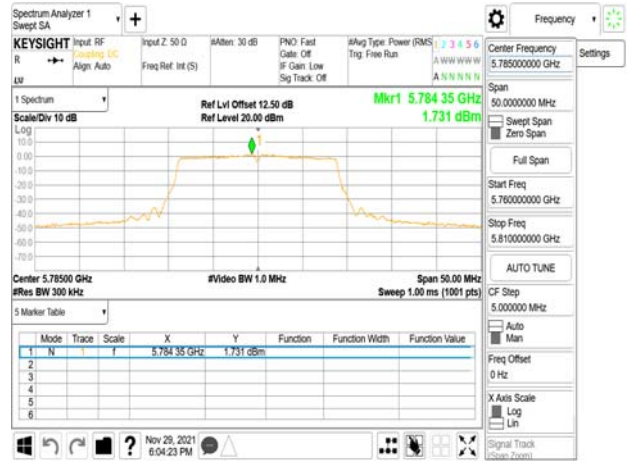
802.11n\_20MHz\_Chain1\_5745MHz



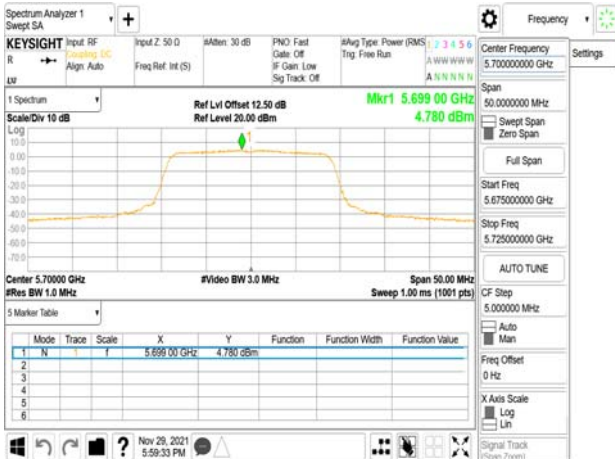
802.11n\_20MHz\_Chain1\_5580MHz



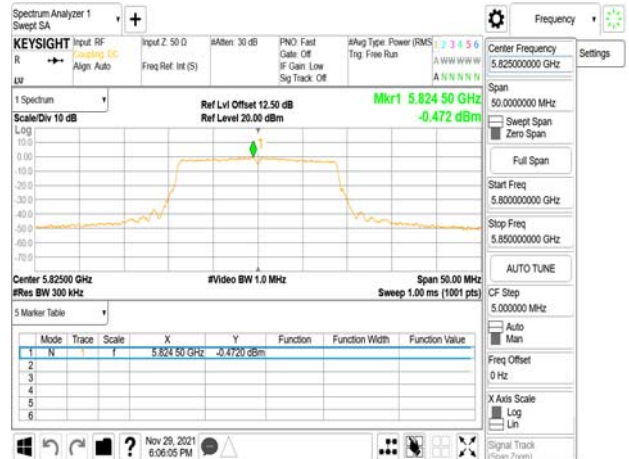
802.11n\_20MHz\_Chain1\_5785MHz



802.11n\_20MHz\_Chain1\_5700MHz



802.11n\_20MHz\_Chain1\_5825MHz



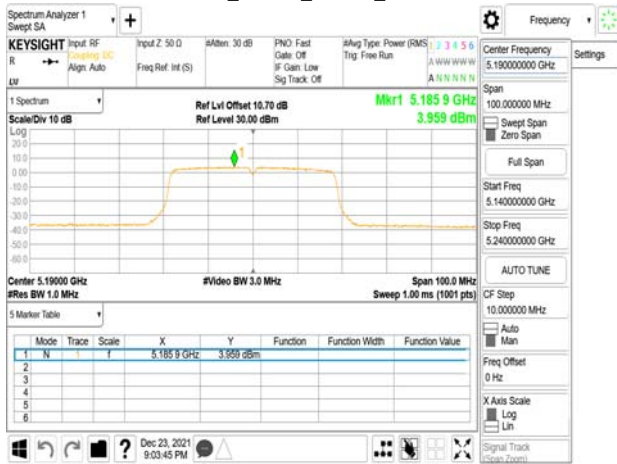
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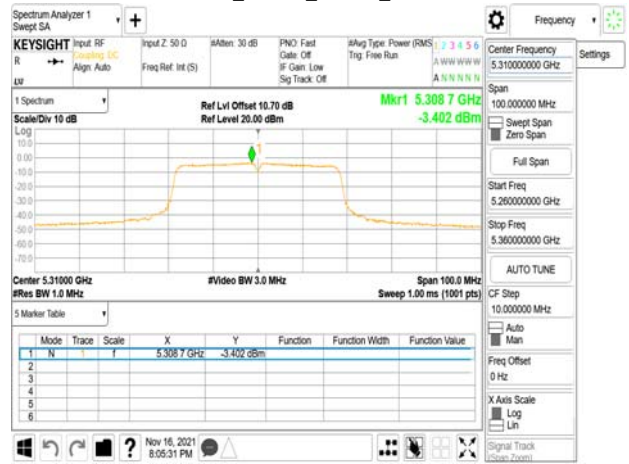
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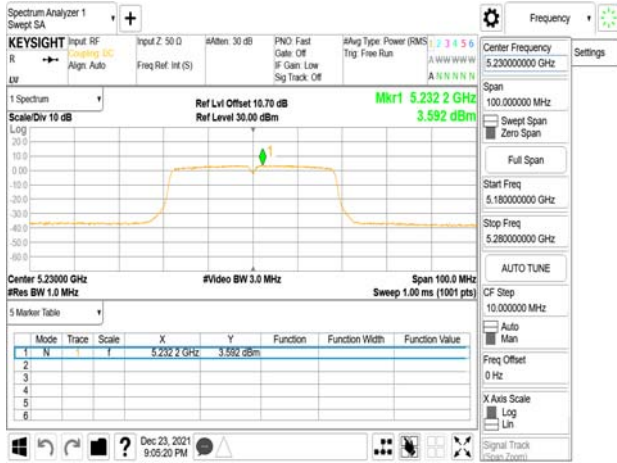
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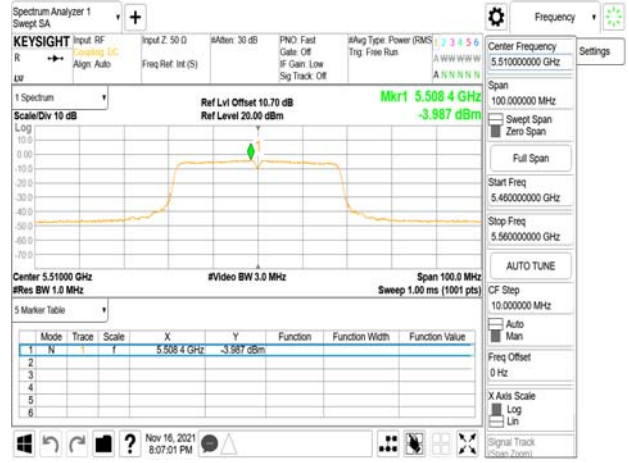
802.11n\_40MHz\_Chain0\_5310MHz



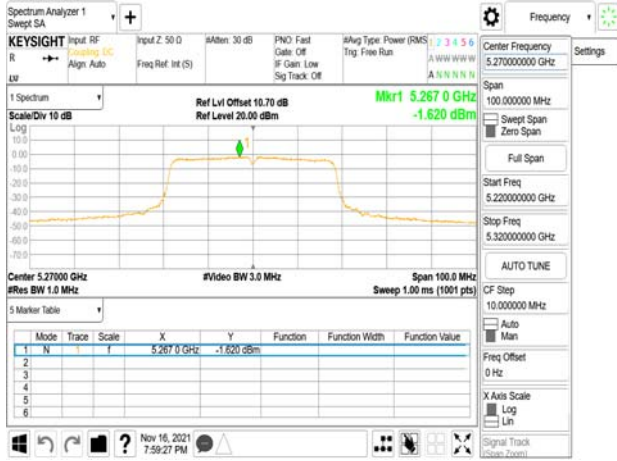
802.11n\_40MHz\_Chain0\_5230MHz



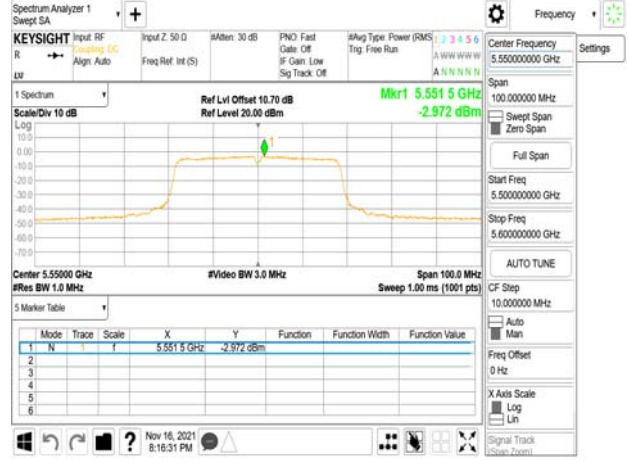
802.11n\_40MHz\_Chain0\_5510MHz



802.11n\_40MHz\_Chain0\_5270MHz



802.11n\_40MHz\_Chain0\_5550MHz

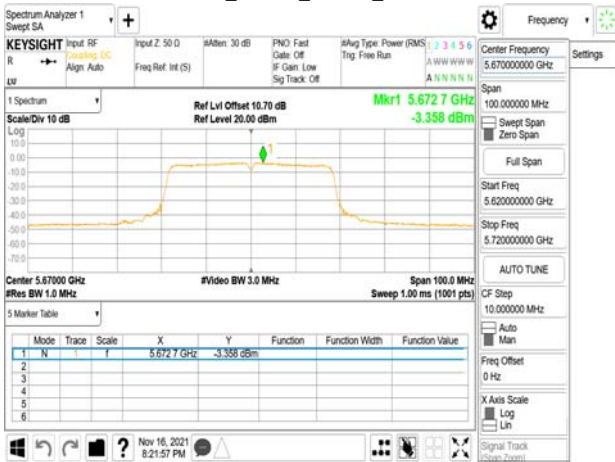


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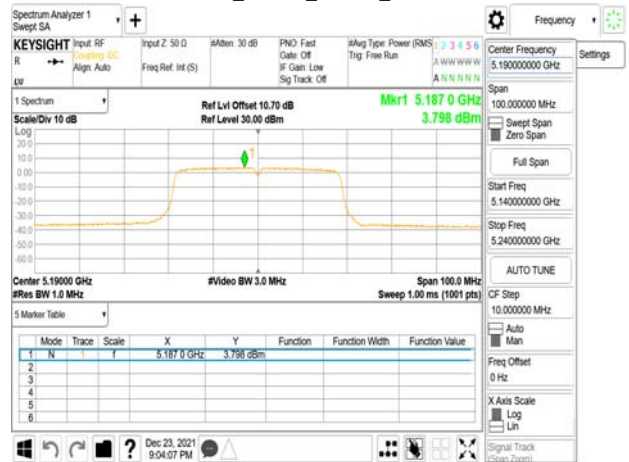
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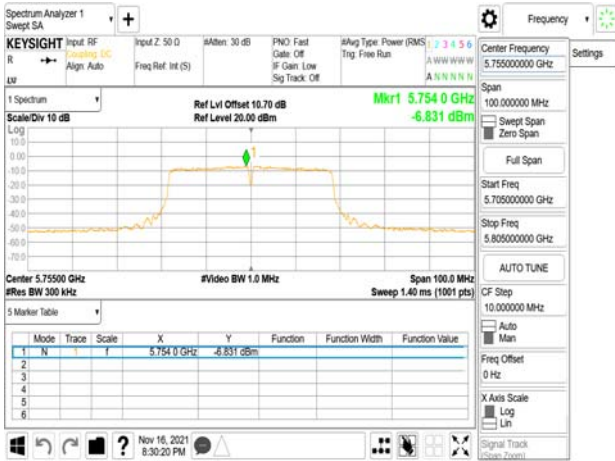
802.11n\_40MHz\_Chain0\_5670MHz



802.11n\_40MHz\_Chain1\_5190MHz



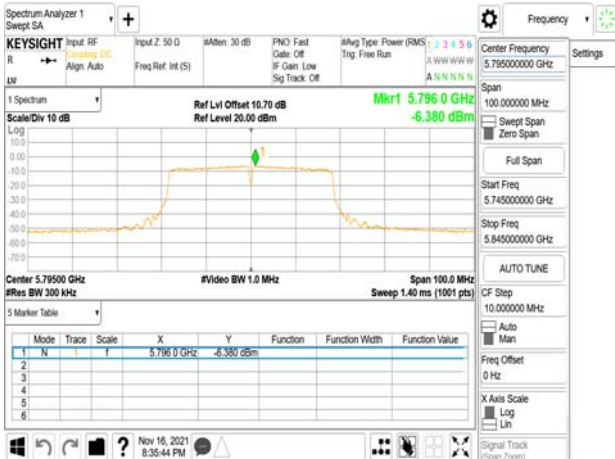
802.11n\_40MHz\_Chain0\_5755MHz



802.11n\_40MHz\_Chain1\_5230MHz



802.11n\_40MHz\_Chain0\_5795MHz



802.11n\_40MHz\_Chain1\_5270MHz



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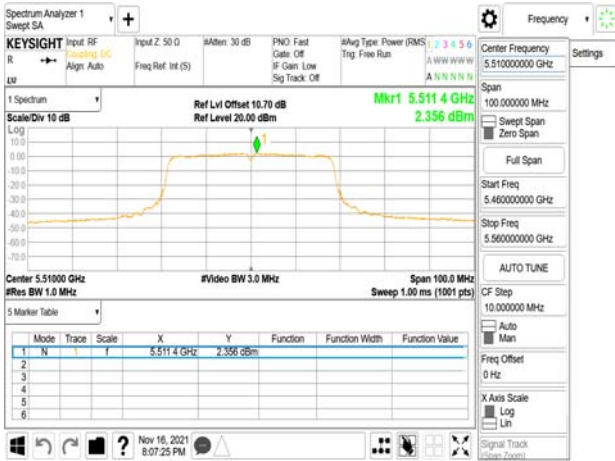
802.11n\_40MHz\_Chain1\_5310MHz



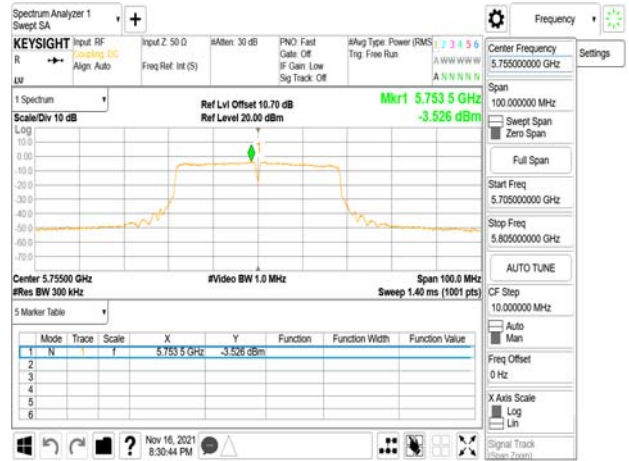
802.11n\_40MHz\_Chain1\_5670MHz



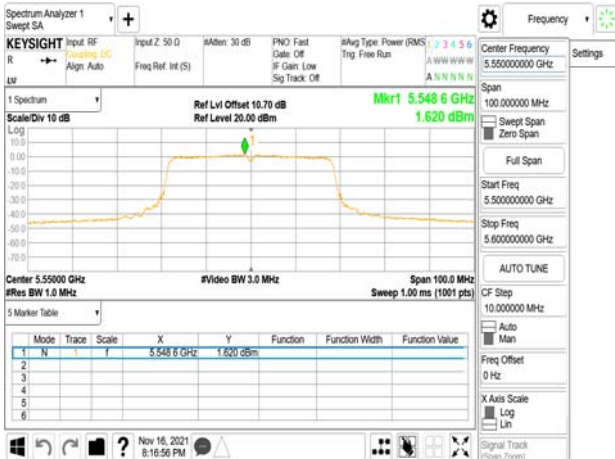
802.11n\_40MHz\_Chain1\_5510MHz



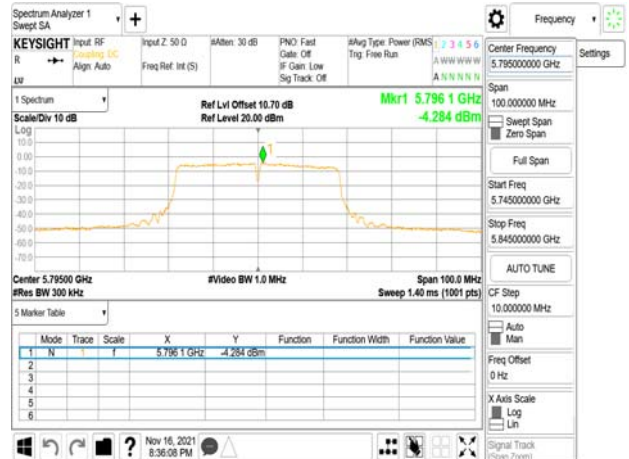
802.11n\_40MHz\_Chain1\_5755MHz



802.11n\_40MHz\_Chain1\_5550MHz



802.11n\_40MHz\_Chain1\_5795MHz



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802.11ac\_80MHz\_Chain0\_5210MHz



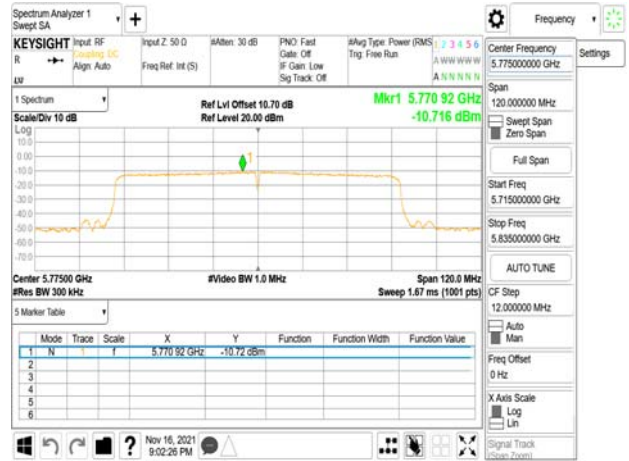
802.11ac\_80MHz\_Chain0\_5610MHz



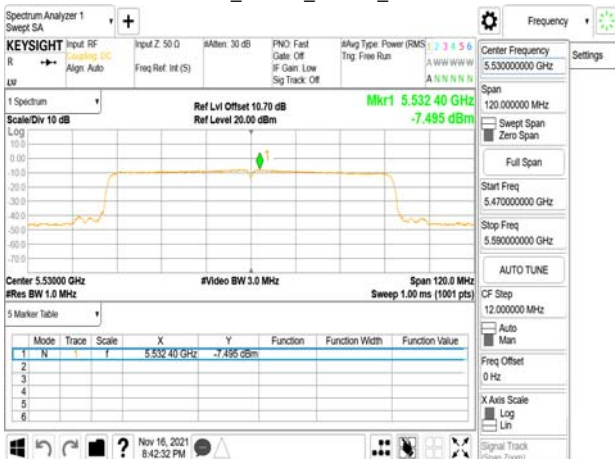
802.11ac\_80MHz\_Chain0\_5290MHz



802.11ac\_80MHz\_Chain0\_5775MHz



802.11ac\_80MHz\_Chain0\_5530MHz



802.11ac\_80MHz\_Chain1\_5210MHz



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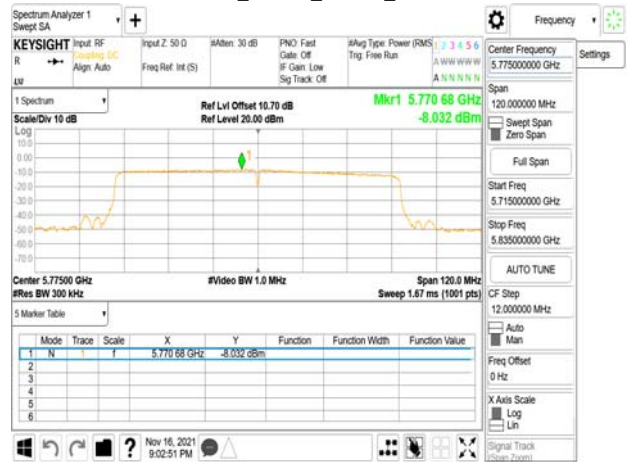
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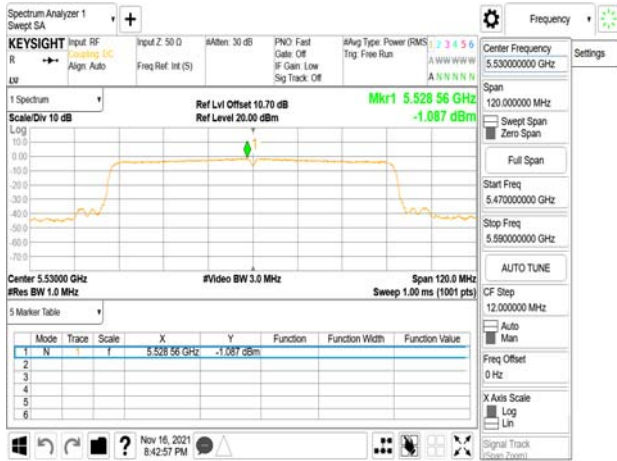
802.11ac\_80MHz\_Chain1\_5290MHz



802.11ac\_80MHz\_Chain1\_5775MHz



802.11ac\_80MHz\_Chain1\_5530MHz



802.11ac\_80MHz\_Chain1\_5610MHz



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## 11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

### 11.1 Standard Applicable

#### 11.1.1 Band Edge

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.725-5.85 GHz band: 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.

| APPLICABLE TO   | EIRP LIMIT  | FIELD STRENGTH AT 3m   |
|---|---|--|
| 15.407(b)(1)<br>RSS-247 §6.2.1.2  | PK: -27 (dBm/MHz)   | PK: 68.2 (dBµV/m)  |
| 15.407(b)(2)<br>RSS-247 §6.2.2.2  |   |  |
| 15.407(b)(3)<br>RSS-247 §6.2.3.2  |   |  |
| 15.407(b)(4)(i)<br>RSS-247 §6.2.4.2   | PK:-27 (dBm/MHz) *1<br>PK:10 (dBm/MHz) *2<br>PK:15.6 (dBm/MHz) *3<br>PK:27 (dBm/MHz) *4 | PK: 68.2 (dBµV/m) *1<br>PK:105.2 (dBµV/m) *2<br>PK: 110.8(dBµV/m) *3<br>PK:122.2 (dBµV/m) *4 |
| <p>*1 beyond 75 MHz or more above of the bandedge.<br/>           *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.<br/>           *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.<br/>           *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> |   |  |

$EIRP = (E \cdot d)^2 / 30$ , where  $E$  is the field in V/m,  $d$  is the measurement distance (3m),  $EIRP$  is the equivalent isotropically radiated power in Watts.

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### 11.1.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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

**Note:**

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

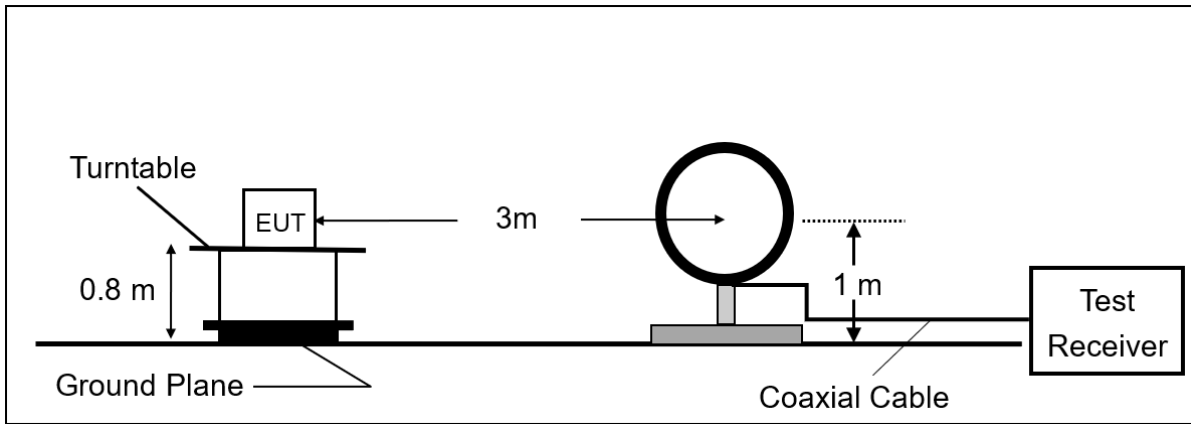
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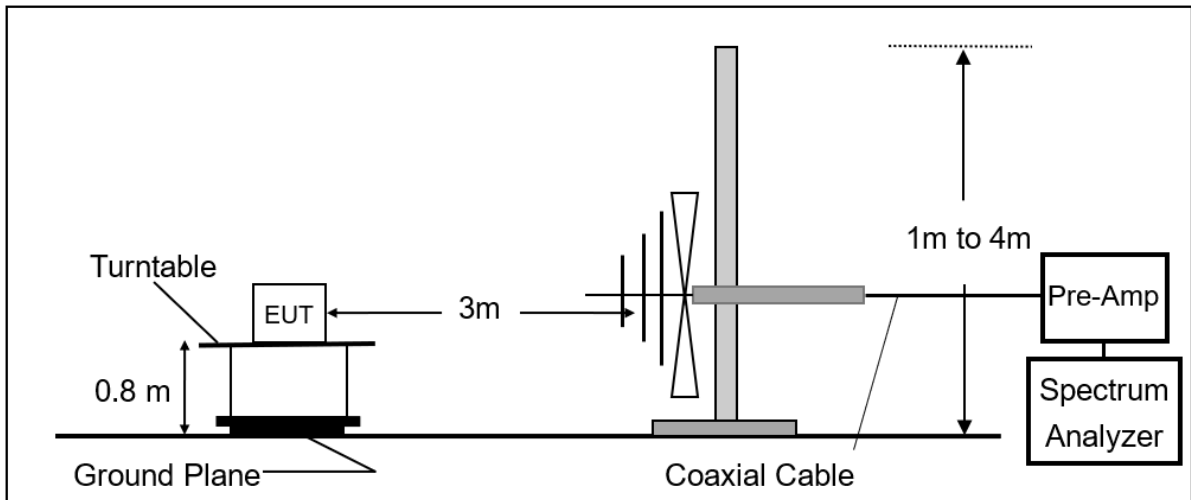
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## 11.2 Test Setup

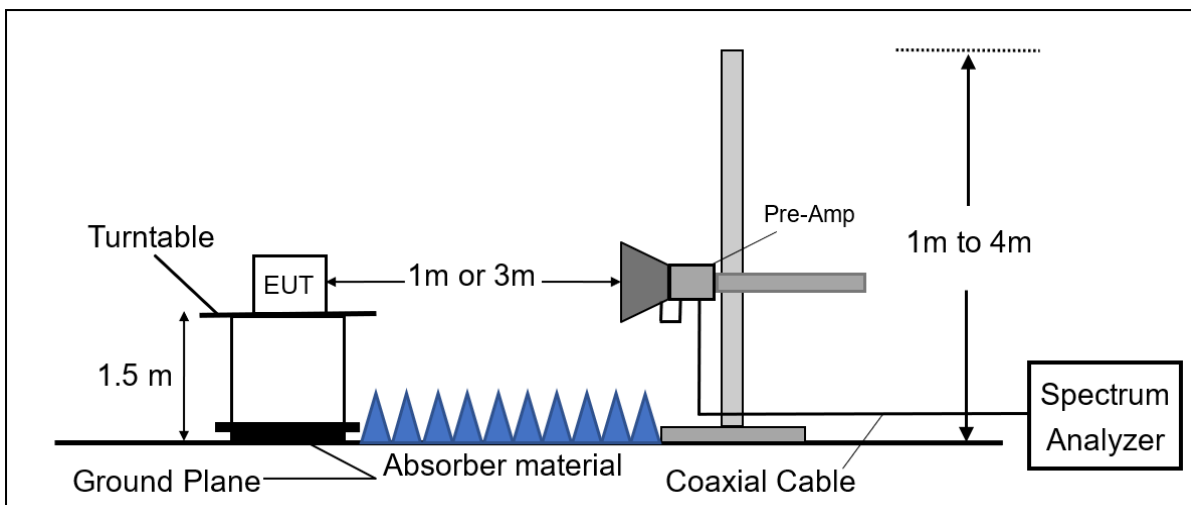
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz



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### 11.3 Measurement Procedure

1. The testing follows FCC KDB 789033 D02.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all frequency measured were complete.

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### 11.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

**Where** *FS = Field Strength* *CL = Cable Attenuation Factor (Cable Loss)*  
*RA = Reading Amplitude* *AG = Amplifier Gain*  
*AF = Antenna Factor*

*The limit of the emission level is expressed in dBuV/m, which converts 20\*log(uV/m)*

*Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)*

*Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)*

### 11.5 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

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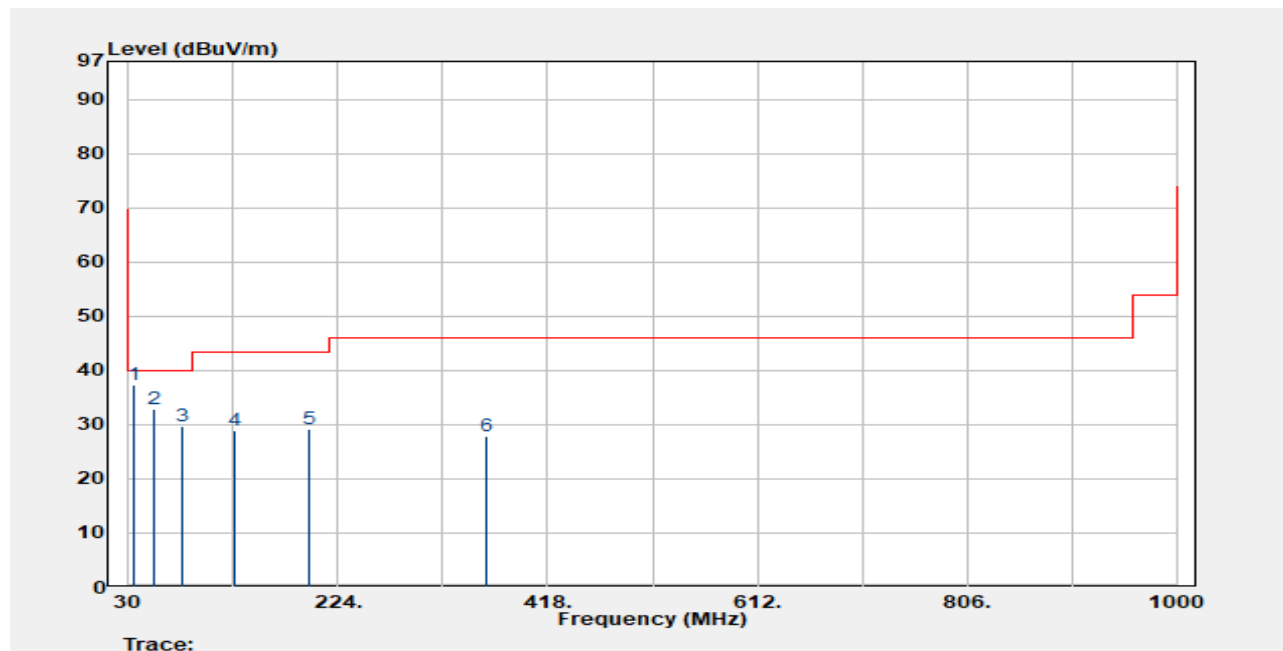
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## 11.6 Radiated Spurious Emission Measurement Result

### 11.6.1 Spurious Emission

Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5220 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 35.030       | QP                           | 46.20                                   | -8.96        | 37.24                        | 40.00                        | -2.76        |
| 54.400       | QP                           | 41.10                                   | -8.30        | 32.80                        | 40.00                        | -7.20        |
| 79.470       | Peak                         | 41.74                                   | -11.97       | 29.77                        | 40.00                        | -10.23       |
| 128.940      | Peak                         | 37.79                                   | -8.75        | 29.04                        | 43.50                        | -14.46       |
| 197.810      | Peak                         | 38.94                                   | -9.74        | 29.20                        | 43.50                        | -14.30       |
| 360.770      | Peak                         | 32.73                                   | -4.88        | 27.85                        | 46.00                        | -18.15       |

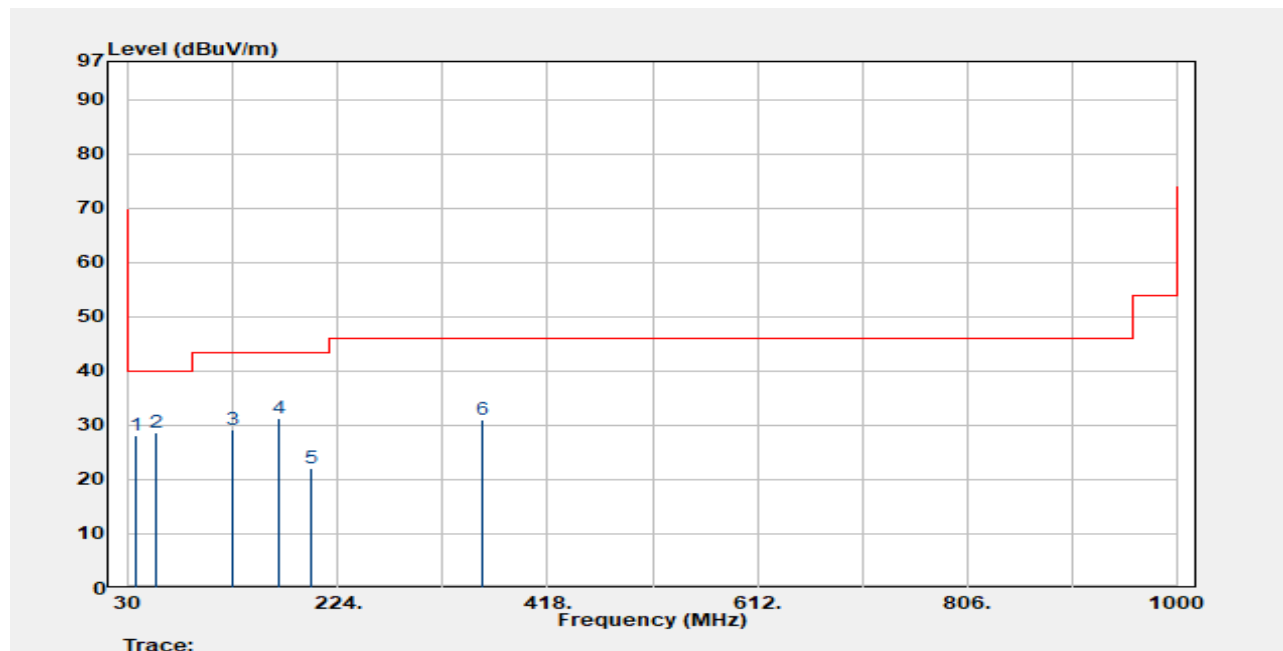
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5220 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 36.790       | Peak                         | 37.13                                   | -8.93        | 28.20                        | 40.00                        | -11.80       |
| 55.220       | Peak                         | 37.22                                   | -8.44        | 28.78                        | 40.00                        | -11.22       |
| 126.030      | Peak                         | 38.30                                   | -9.08        | 29.23                        | 43.50                        | -14.27       |
| 169.680      | Peak                         | 38.97                                   | -7.69        | 31.29                        | 43.50                        | -12.21       |
| 198.780      | QP                           | 31.90                                   | -9.73        | 22.17                        | 43.50                        | -21.33       |
| 357.860      | Peak                         | 36.02                                   | -4.91        | 31.11                        | 46.00                        | -14.89       |

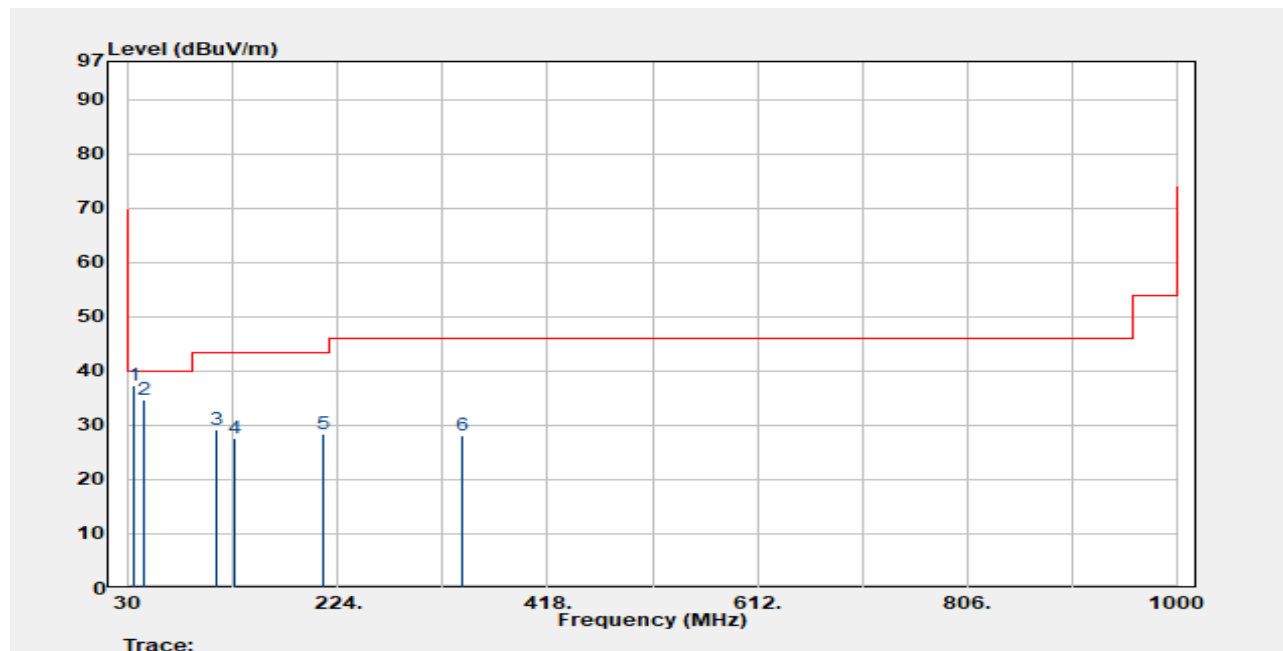
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5300 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 35.020       | QP                           | 46.30                             | -8.96        | 37.34                  | 40.00                  | -2.66        |
| 44.970       | QP                           | 43.10                             | -8.28        | 34.82                  | 40.00                  | -5.18        |
| 110.510      | Peak                         | 40.04                             | -10.84       | 29.20                  | 43.50                  | -14.30       |
| 127.970      | Peak                         | 36.38                             | -8.86        | 27.53                  | 43.50                  | -15.97       |
| 210.420      | Peak                         | 37.95                             | -9.68        | 28.27                  | 43.50                  | -15.23       |
| 338.460      | Peak                         | 33.07                             | -4.96        | 28.12                  | 46.00                  | -17.88       |

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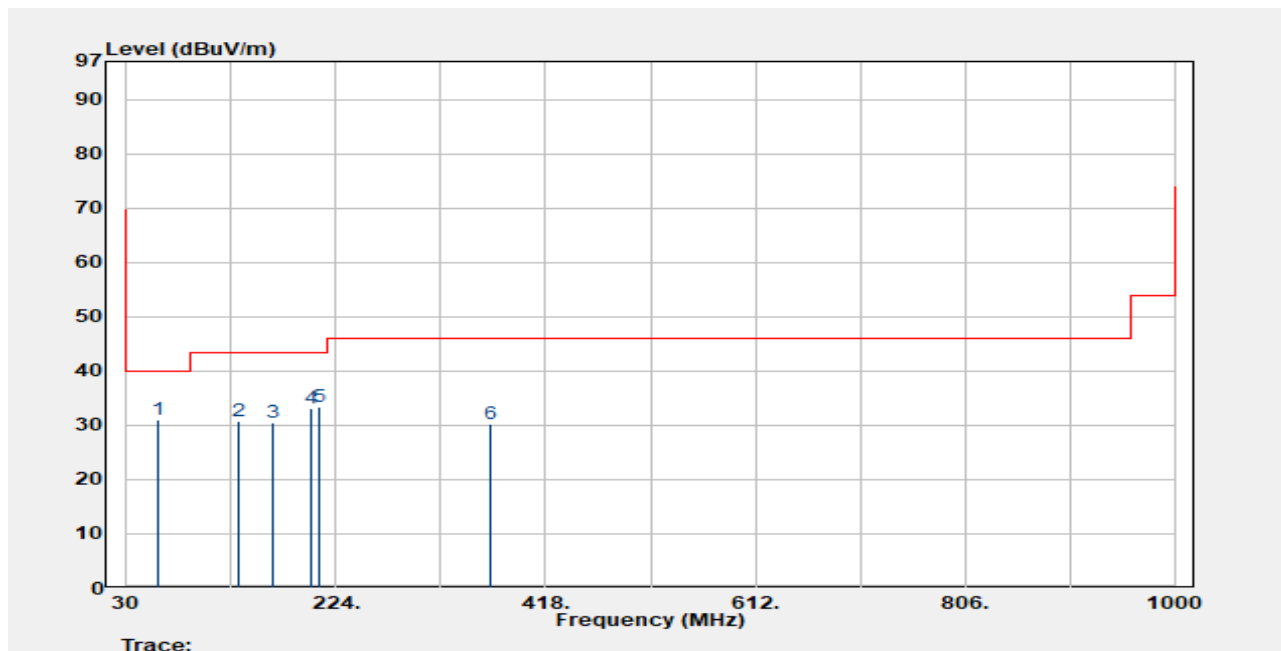
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5300 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 59.100       | Peak                         | 39.59                                   | -8.70        | 30.90                        | 40.00                        | -9.10        |
| 133.790      | Peak                         | 38.76                                   | -8.12        | 30.63                        | 43.50                        | -12.87       |
| 164.830      | Peak                         | 37.74                                   | -7.36        | 30.38                        | 43.50                        | -13.12       |
| 201.690      | Peak                         | 42.92                                   | -9.67        | 33.25                        | 43.50                        | -10.25       |
| 208.480      | Peak                         | 43.23                                   | -9.74        | 33.50                        | 43.50                        | -10.00       |
| 366.590      | Peak                         | 34.89                                   | -4.75        | 30.14                        | 46.00                        | -15.86       |

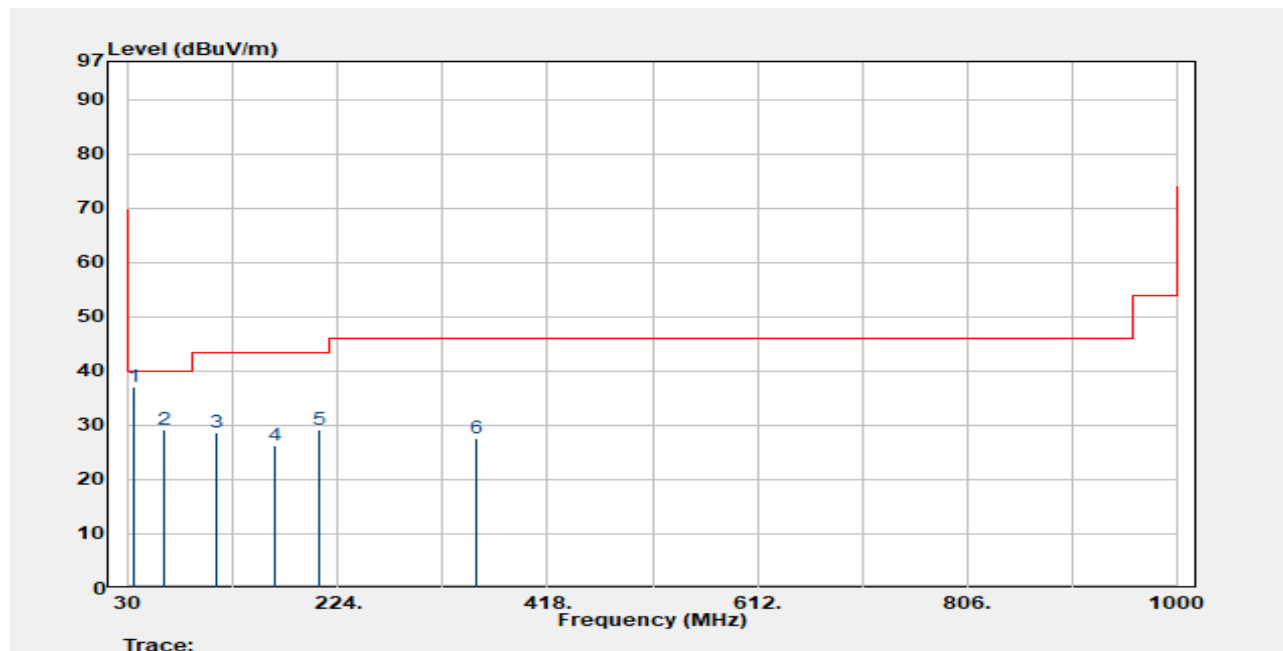
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5580 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 34.850       | QP                           | 46.12                                   | -9.00        | 37.12                        | 40.00                        | -2.88        |
| 62.010       | QP                           | 38.21                                   | -9.06        | 29.15                        | 40.00                        | -10.85       |
| 111.480      | Peak                         | 39.23                                   | -10.68       | 28.54                        | 43.50                        | -14.96       |
| 164.830      | Peak                         | 33.57                                   | -7.36        | 26.22                        | 43.50                        | -17.28       |
| 206.540      | Peak                         | 39.03                                   | -9.75        | 29.27                        | 43.50                        | -14.23       |
| 352.040      | Peak                         | 32.46                                   | -4.94        | 27.52                        | 46.00                        | -18.48       |

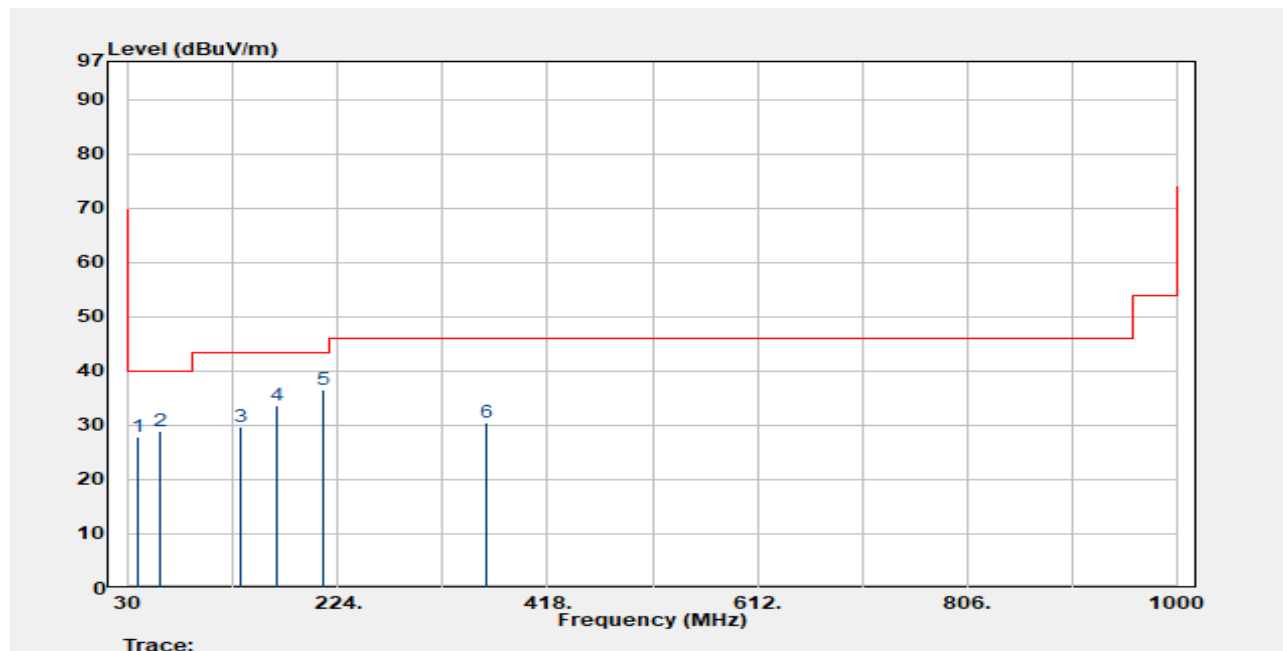
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5580 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 37.760       | Peak                         | 36.61                                   | -8.71        | 27.90                        | 40.00                        | -12.10       |
| 59.100       | Peak                         | 37.73                                   | -8.70        | 29.03                        | 40.00                        | -10.97       |
| 133.790      | Peak                         | 37.75                                   | -8.12        | 29.62                        | 43.50                        | -13.88       |
| 167.740      | Peak                         | 41.07                                   | -7.52        | 33.56                        | 43.50                        | -9.94        |
| 210.420      | Peak                         | 46.34                                   | -9.68        | 36.66                        | 43.50                        | -6.84        |
| 361.740      | Peak                         | 35.42                                   | -4.85        | 30.57                        | 46.00                        | -15.43       |

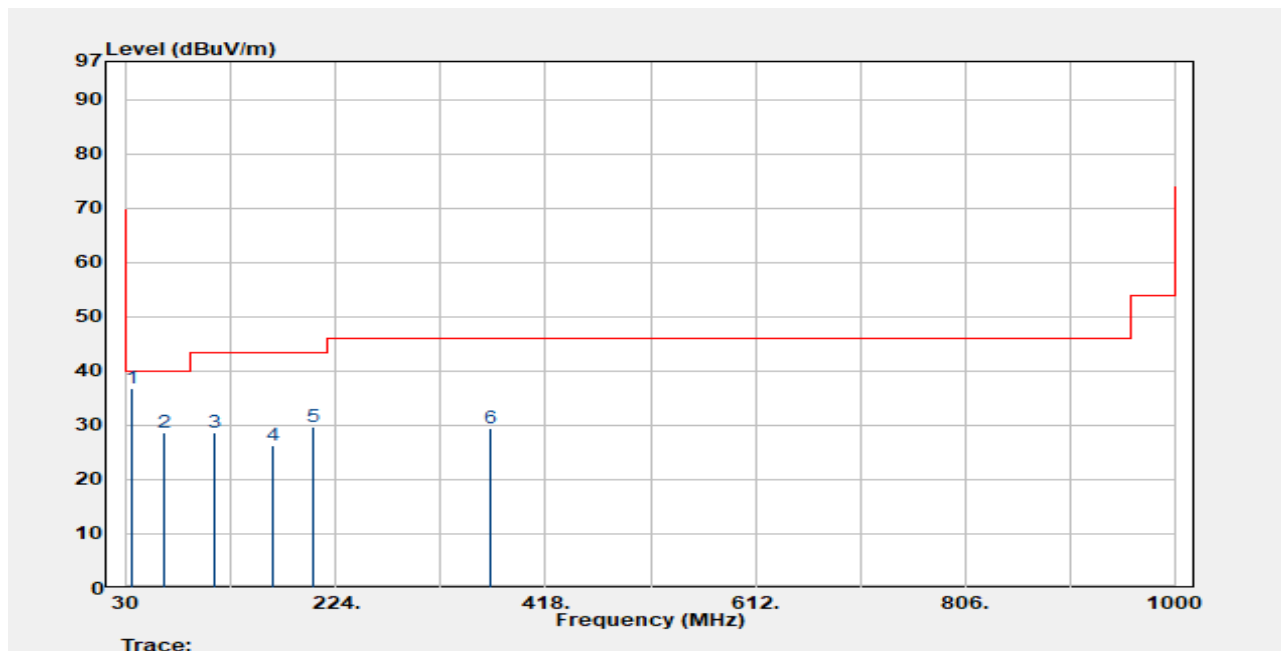
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5785 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level d $\mu$ V | Factor dB | Actual FS d $\mu$ V/m | Limit @3m d $\mu$ V/m | Margin dB |
|-----------|------------------------|----------------------------------|-----------|-----------------------|-----------------------|-----------|
| 34.850    | QP                     | 45.89                            | -9.00     | 36.89                 | 40.00                 | -3.11     |
| 63.950    | QP                     | 37.90                            | -9.24     | 28.66                 | 40.00                 | -11.34    |
| 110.510   | Peak                   | 39.39                            | -10.84    | 28.55                 | 43.50                 | -14.95    |
| 165.800   | Peak                   | 33.80                            | -7.50     | 26.30                 | 43.50                 | -17.20    |
| 202.660   | Peak                   | 39.27                            | -9.70     | 29.57                 | 43.50                 | -13.93    |
| 366.590   | Peak                   | 34.26                            | -4.75     | 29.51                 | 46.00                 | -16.49    |

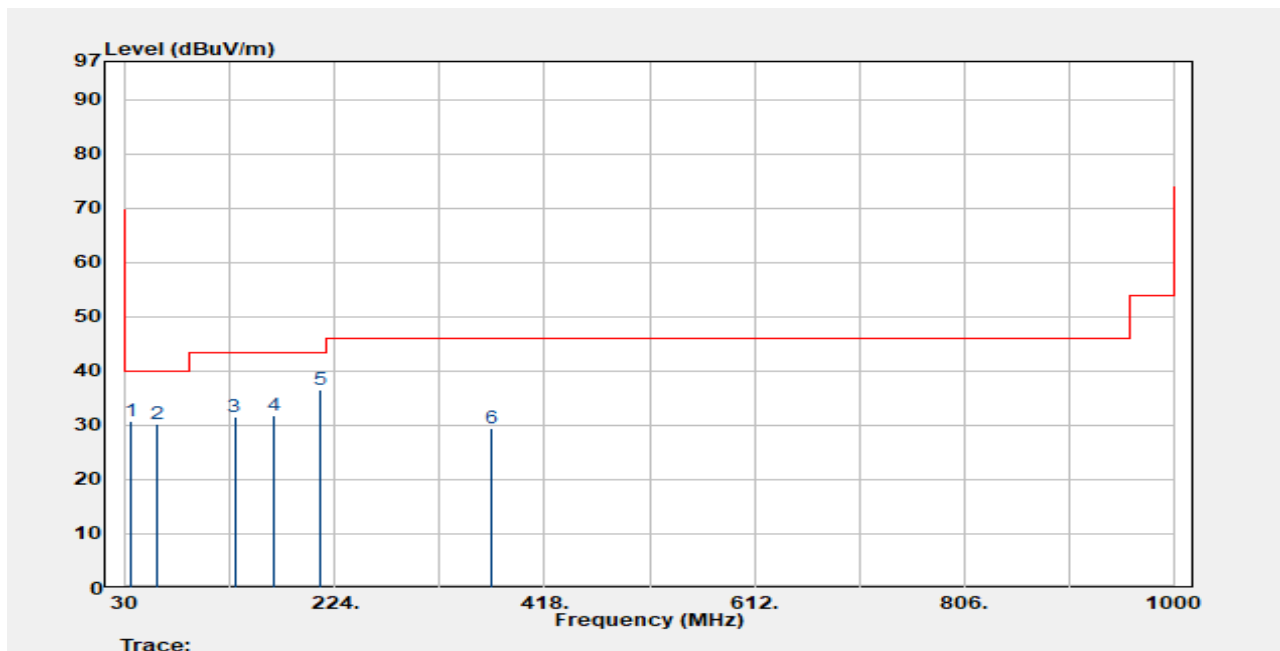
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5785 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level d $\mu$ V | Factor dB | Actual FS d $\mu$ V/m | Limit @3m d $\mu$ V/m | Margin dB |
|-----------|------------------------|----------------------------------|-----------|-----------------------|-----------------------|-----------|
| 34.850    | Peak                   | 39.71                            | -9.00     | 30.72                 | 40.00                 | -9.28     |
| 59.100    | Peak                   | 38.90                            | -8.70     | 30.20                 | 40.00                 | -9.80     |
| 130.880   | Peak                   | 40.09                            | -8.44     | 31.65                 | 43.50                 | -11.85    |
| 167.740   | Peak                   | 39.23                            | -7.52     | 31.72                 | 43.50                 | -11.78    |
| 209.450   | Peak                   | 46.34                            | -9.73     | 36.61                 | 43.50                 | -6.89     |
| 369.500   | Peak                   | 34.26                            | -4.73     | 29.53                 | 46.00                 | -16.47    |

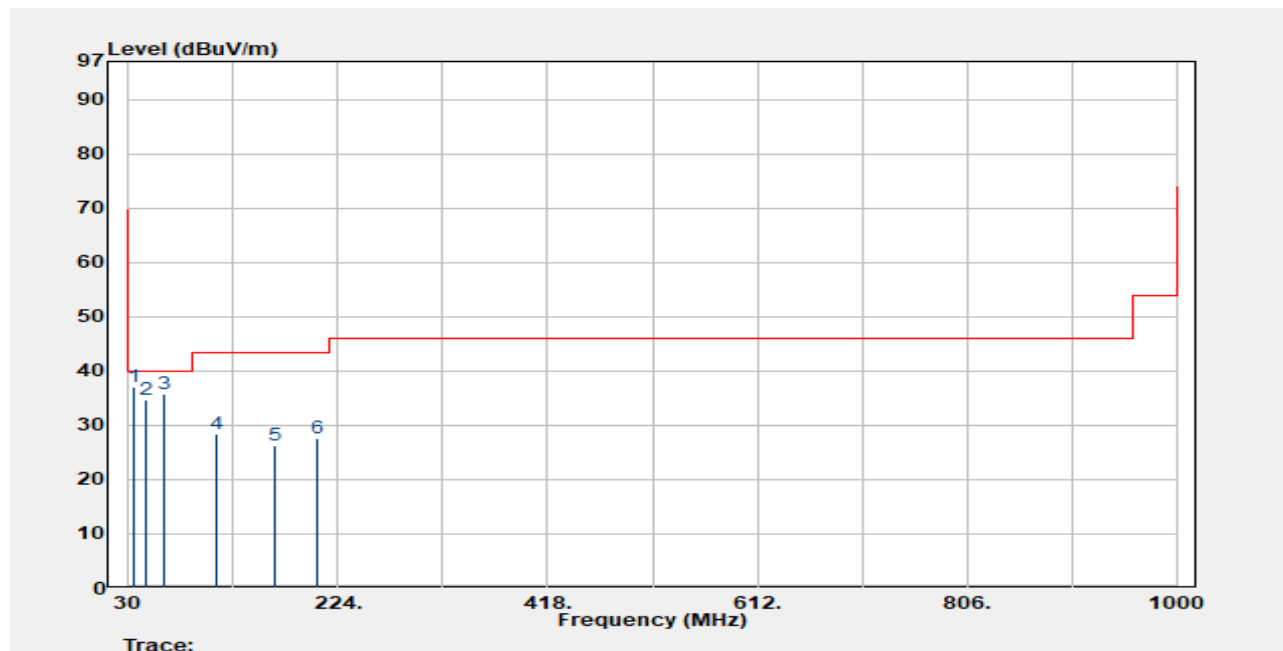
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5210 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 34.850       | QP                           | 46.05                             | -9.00        | 37.05                  | 40.00                  | -2.95        |
| 45.520       | QP                           | 42.87                             | -8.18        | 34.69                  | 40.00                  | -5.31        |
| 62.010       | Peak                         | 44.86                             | -9.06        | 35.80                  | 40.00                  | -4.20        |
| 110.510      | Peak                         | 39.32                             | -10.84       | 28.48                  | 43.50                  | -15.02       |
| 164.830      | Peak                         | 33.76                             | -7.36        | 26.41                  | 43.50                  | -17.09       |
| 204.600      | Peak                         | 37.34                             | -9.76        | 27.59                  | 43.50                  | -15.91       |

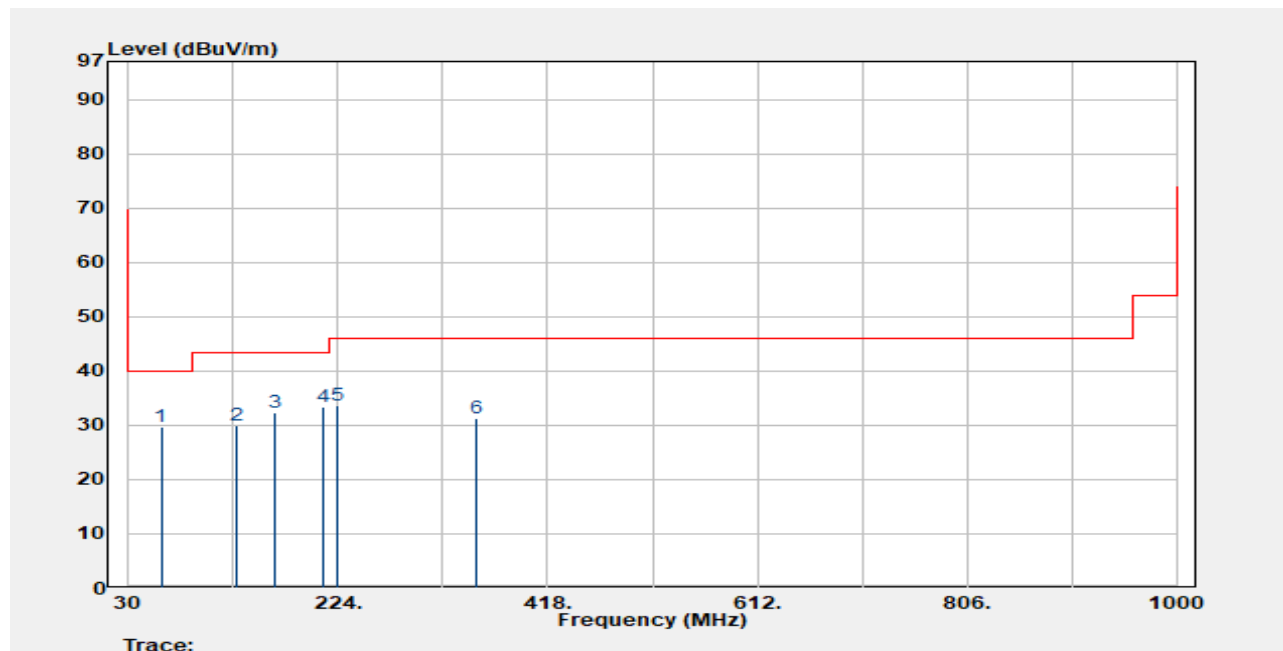
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5210 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 60.070       | Peak                         | 38.55                                   | -8.80        | 29.75                        | 40.00                        | -10.25       |
| 129.910      | Peak                         | 38.49                                   | -8.55        | 29.94                        | 43.50                        | -13.56       |
| 165.800      | Peak                         | 39.94                                   | -7.50        | 32.44                        | 43.50                        | -11.06       |
| 209.450      | Peak                         | 43.00                                   | -9.73        | 33.27                        | 43.50                        | -10.23       |
| 223.030      | Peak                         | 42.90                                   | -9.35        | 33.54                        | 46.00                        | -12.46       |
| 352.040      | Peak                         | 36.33                                   | -4.94        | 31.39                        | 46.00                        | -14.61       |

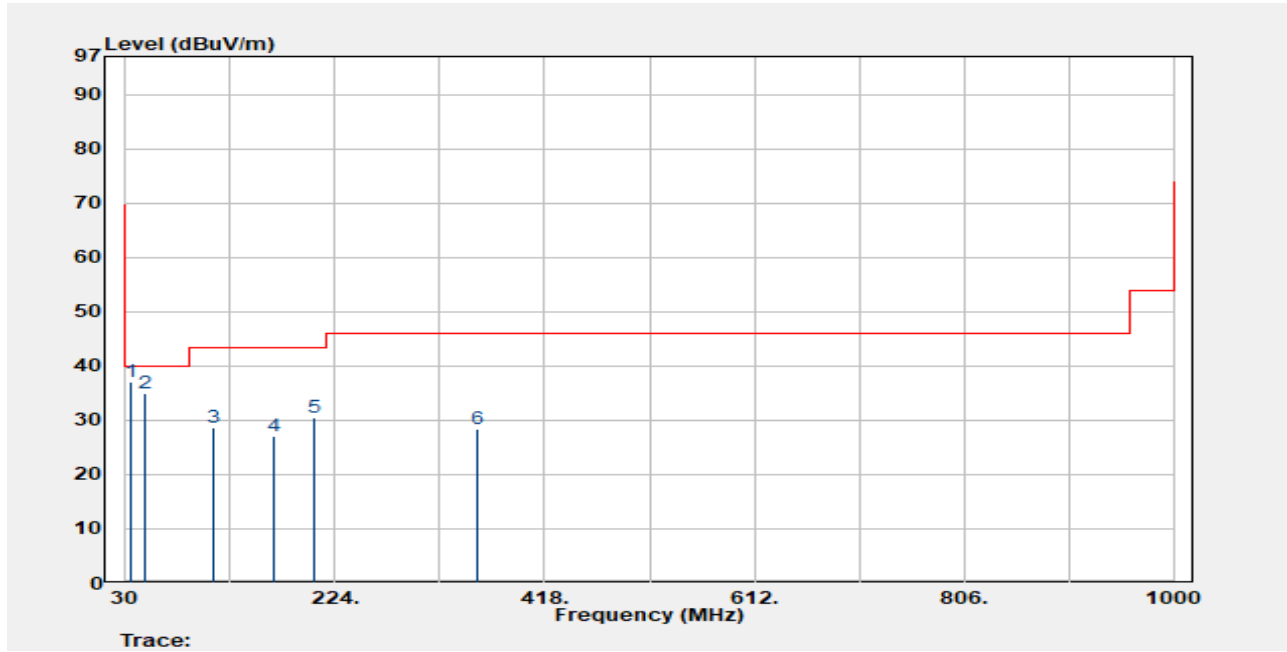
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5290 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|-----------|------------------------|-----------------------------|-----------|------------------|------------------|-----------|
| 34.850    | QP                     | 46.13                       | -9.00     | 37.13            | 40.00            | -2.87     |
| 48.430    | QP                     | 43.21                       | -8.12     | 35.09            | 40.00            | -4.91     |
| 110.510   | Peak                   | 39.58                       | -10.84    | 28.74            | 43.50            | -14.76    |
| 167.740   | Peak                   | 34.61                       | -7.52     | 27.09            | 43.50            | -16.41    |
| 204.600   | Peak                   | 40.38                       | -9.76     | 30.62            | 43.50            | -12.88    |
| 354.950   | Peak                   | 33.41                       | -4.93     | 28.48            | 46.00            | -17.52    |

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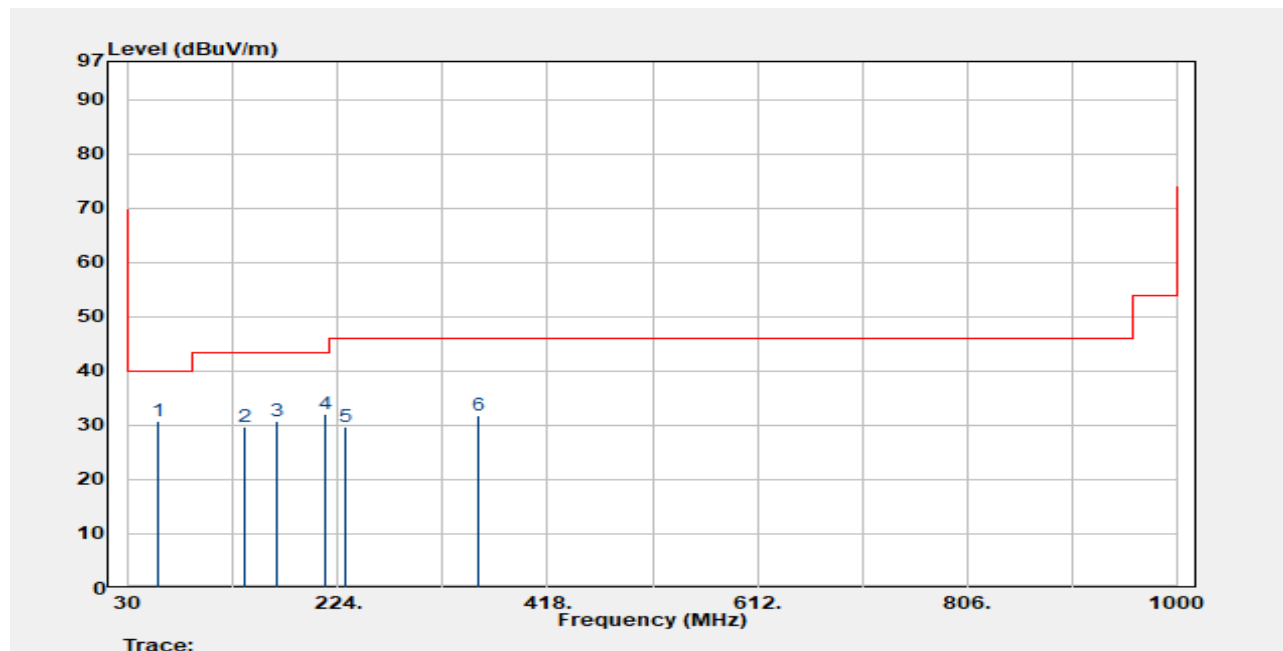
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5290 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 57.160       | Peak                         | 39.32                                   | -8.53        | 30.78                        | 40.00                        | -9.22        |
| 137.670      | Peak                         | 37.63                                   | -7.81        | 29.82                        | 43.50                        | -13.68       |
| 166.770      | Peak                         | 38.40                                   | -7.53        | 30.87                        | 43.50                        | -12.63       |
| 211.390      | Peak                         | 41.73                                   | -9.60        | 32.14                        | 43.50                        | -11.36       |
| 230.790      | Peak                         | 38.70                                   | -8.92        | 29.78                        | 46.00                        | -16.22       |
| 353.980      | Peak                         | 36.69                                   | -4.93        | 31.75                        | 46.00                        | -14.25       |

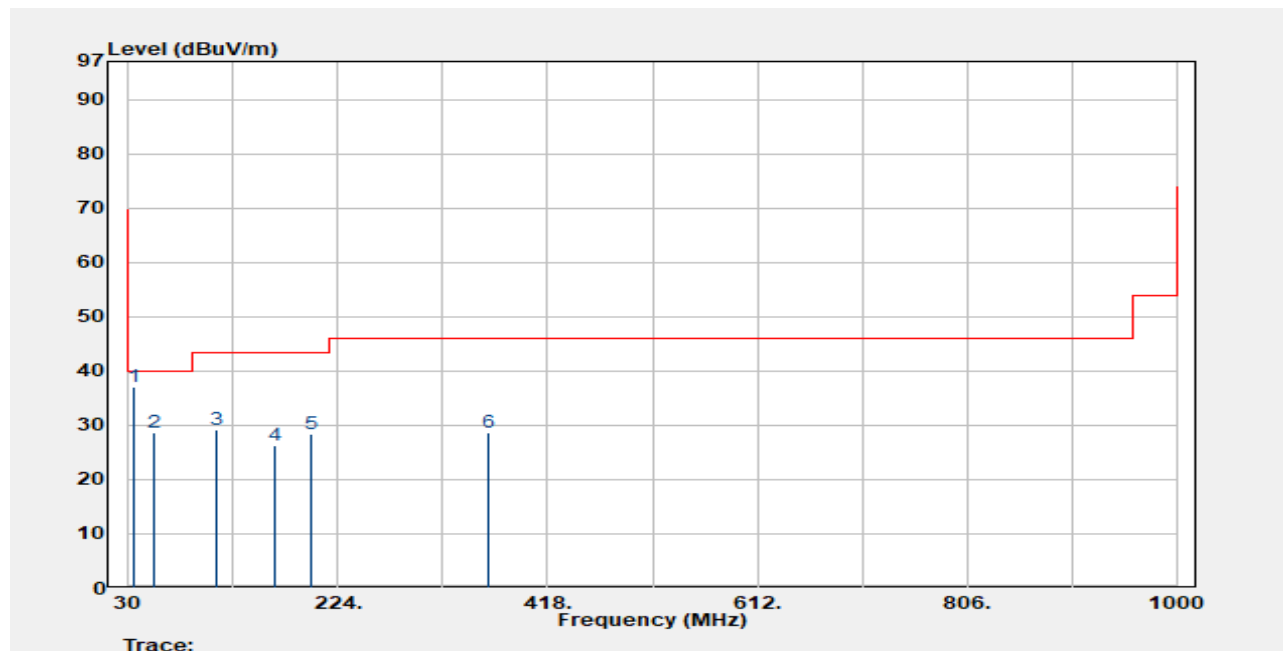
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5610 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 34.850       | QP                           | 45.99                                   | -9.00        | 36.99                        | 40.00                        | -3.01        |
| 54.250       | QP                           | 36.85                                   | -8.27        | 28.58                        | 40.00                        | -11.42       |
| 110.510      | Peak                         | 39.91                                   | -10.84       | 29.07                        | 43.50                        | -14.43       |
| 164.830      | Peak                         | 33.73                                   | -7.36        | 26.37                        | 43.50                        | -17.13       |
| 199.750      | Peak                         | 38.13                                   | -9.65        | 28.48                        | 43.50                        | -15.02       |
| 362.710      | Peak                         | 33.42                                   | -4.83        | 28.60                        | 46.00                        | -17.40       |

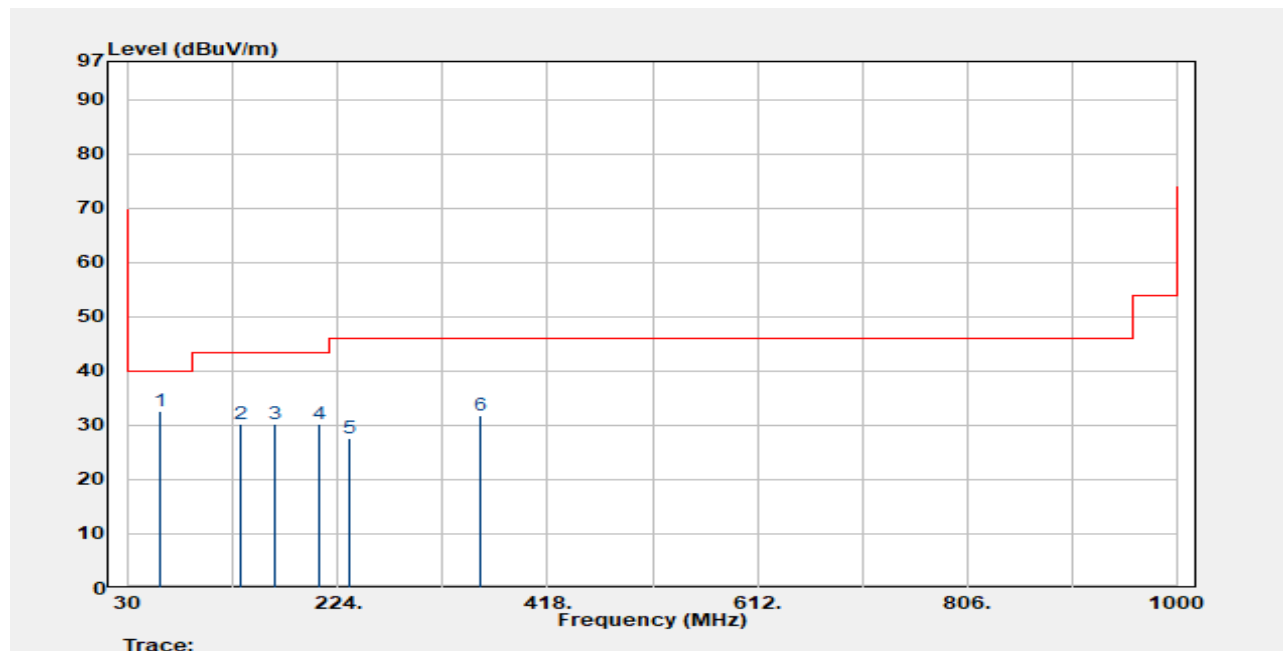
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5610 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 59.100       | Peak                         | 41.19                                   | -8.70        | 32.49                        | 40.00                        | -7.51        |
| 133.790      | Peak                         | 38.37                                   | -8.12        | 30.25                        | 43.50                        | -13.25       |
| 164.830      | Peak                         | 37.48                                   | -7.36        | 30.12                        | 43.50                        | -13.38       |
| 206.540      | Peak                         | 40.11                                   | -9.75        | 30.36                        | 43.50                        | -13.14       |
| 233.700      | Peak                         | 36.16                                   | -8.61        | 27.55                        | 46.00                        | -18.45       |
| 355.920      | Peak                         | 36.63                                   | -4.92        | 31.71                        | 46.00                        | -14.29       |

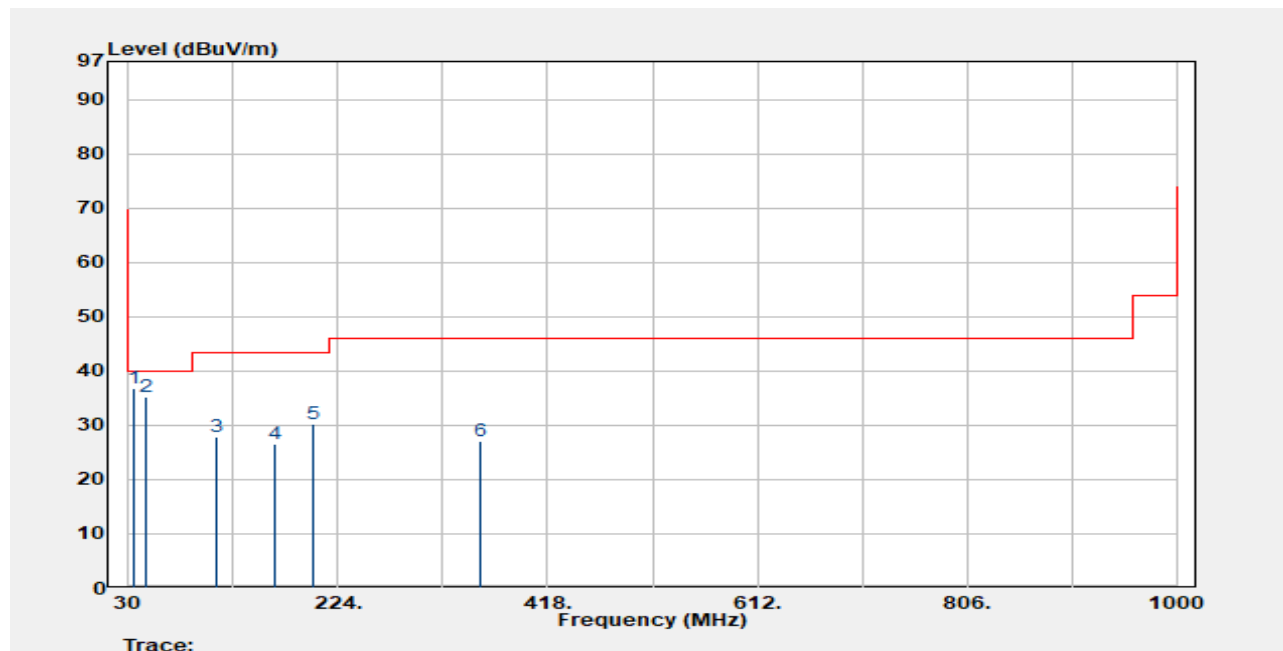
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5775 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 34.850       | QP                           | 45.86                                   | -9.00        | 36.86                        | 40.00                        | -3.14        |
| 46.490       | QP                           | 43.21                                   | -8.07        | 35.14                        | 40.00                        | -4.86        |
| 110.510      | Peak                         | 38.73                                   | -10.84       | 27.89                        | 43.50                        | -15.61       |
| 164.830      | Peak                         | 33.86                                   | -7.36        | 26.50                        | 43.50                        | -17.00       |
| 201.690      | Peak                         | 39.92                                   | -9.67        | 30.25                        | 43.50                        | -13.25       |
| 354.950      | Peak                         | 32.11                                   | -4.93        | 27.18                        | 46.00                        | -18.82       |

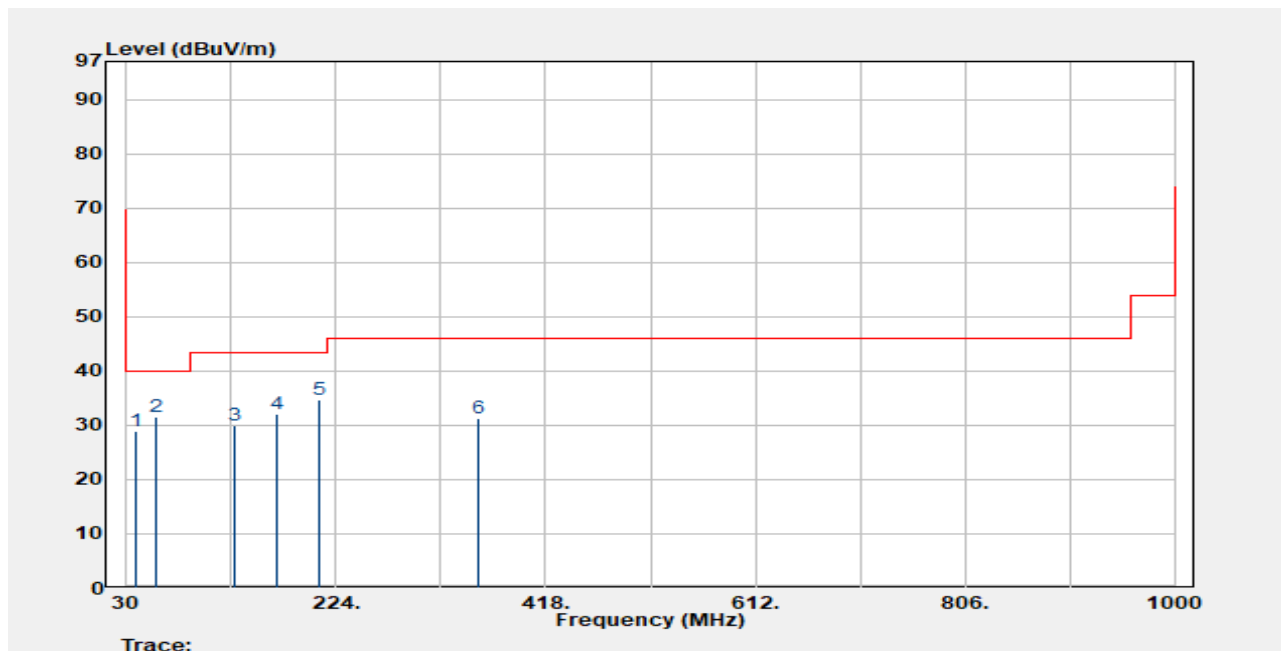
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5775 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 37.760       | Peak                         | 37.62                                   | -8.71        | 28.91                        | 40.00                        | -11.09       |
| 58.130       | Peak                         | 40.17                                   | -8.70        | 31.48                        | 40.00                        | -8.52        |
| 129.910      | Peak                         | 38.53                                   | -8.55        | 29.98                        | 43.50                        | -13.52       |
| 169.680      | Peak                         | 39.63                                   | -7.69        | 31.95                        | 43.50                        | -11.55       |
| 207.510      | Peak                         | 44.41                                   | -9.75        | 34.67                        | 43.50                        | -8.83        |
| 354.950      | Peak                         | 36.09                                   | -4.93        | 31.16                        | 46.00                        | -14.84       |

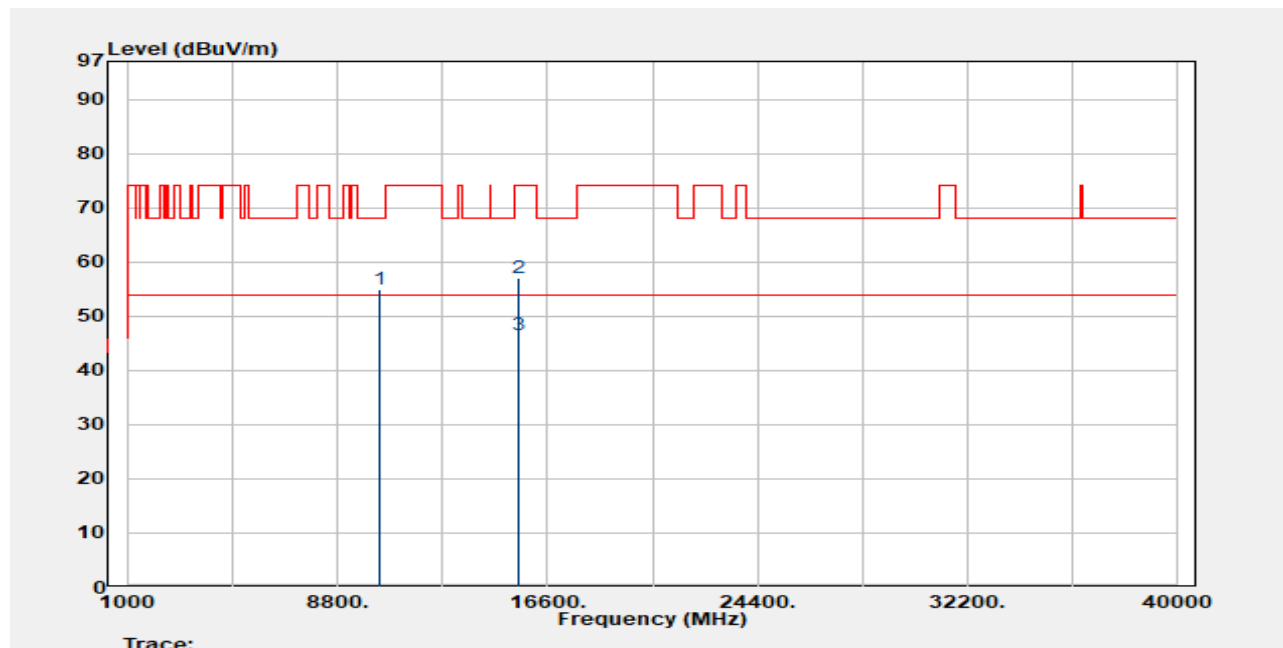
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5180 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10360.000    | Peak                         | 34.29                                   | 20.53        | 54.82                        | 68.20                        | -13.38       |
| 15540.000    | Peak                         | 33.74                                   | 23.22        | 56.96                        | 74.00                        | -17.04       |
| 15540.000    | Average                      | 23.22                                   | 23.22        | 46.44                        | 54.00                        | -7.56        |

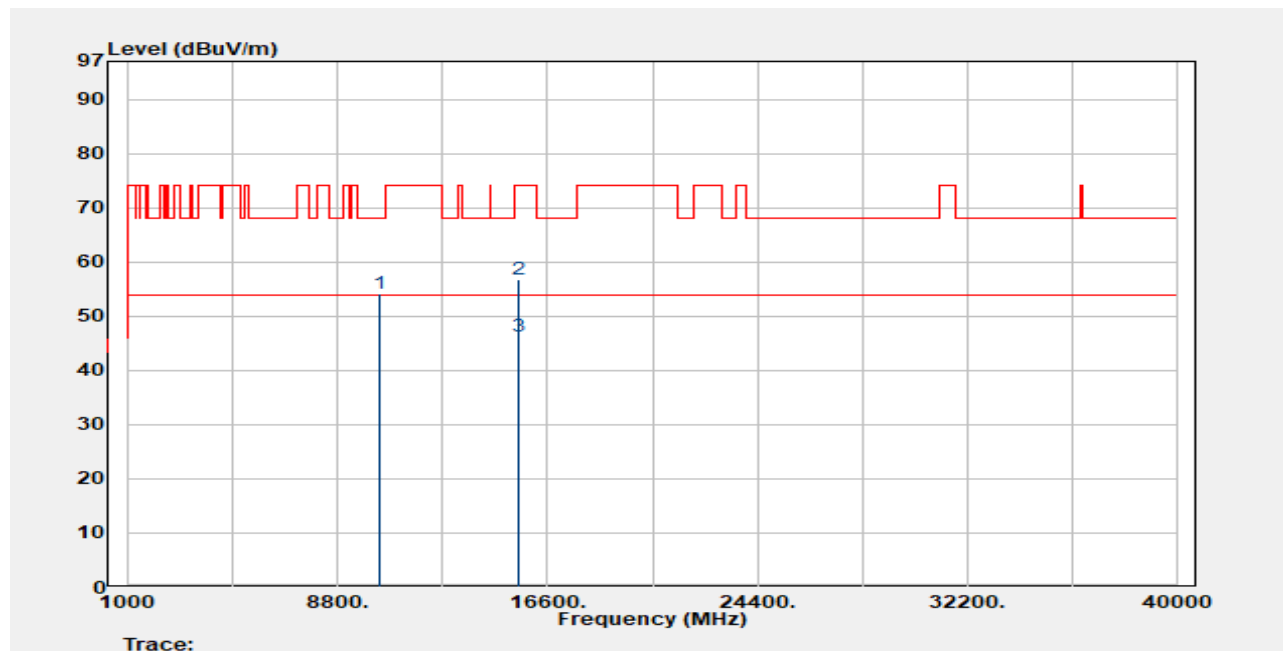
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5180 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10360.000    | Peak                         | 34.14                                   | 20.13        | 54.28                        | 68.20                        | -13.92       |
| 15540.000    | Peak                         | 33.65                                   | 23.19        | 56.84                        | 74.00                        | -17.16       |
| 15540.000    | Average                      | 23.16                                   | 23.19        | 46.35                        | 54.00                        | -7.65        |

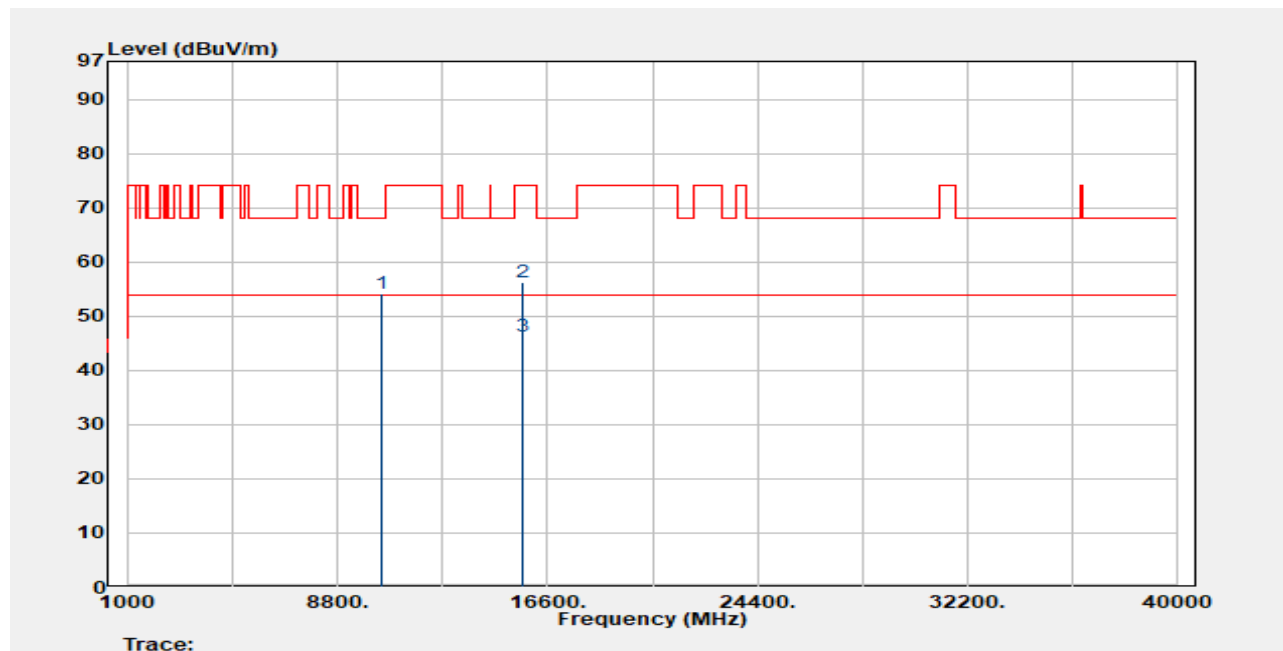
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5220 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10440.000    | Peak                         | 33.83                                   | 20.33        | 54.16                        | 68.20                        | -14.04       |
| 15660.000    | Peak                         | 33.29                                   | 22.86        | 56.15                        | 74.00                        | -17.85       |
| 15660.000    | Average                      | 23.36                                   | 22.86        | 46.22                        | 54.00                        | -7.78        |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

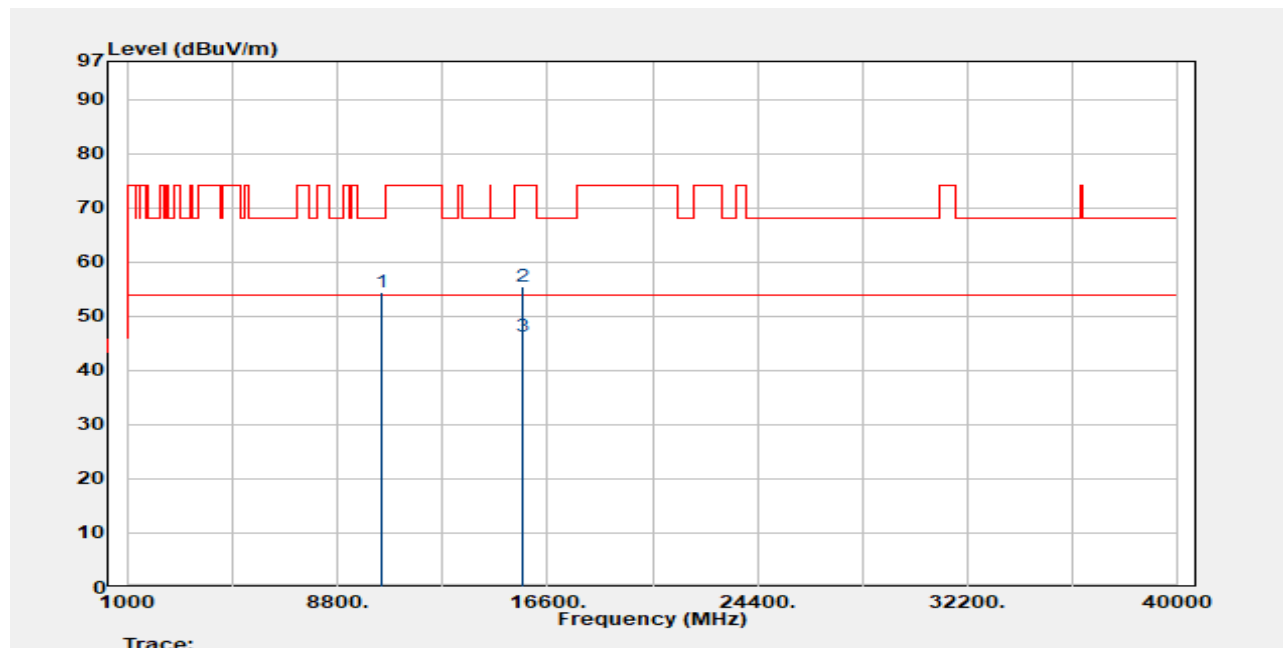
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5220 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10440.000    | Peak                         | 33.98                                   | 20.42        | 54.40                        | 68.20                        | -13.80       |
| 15660.000    | Peak                         | 32.63                                   | 22.97        | 55.60                        | 74.00                        | -18.40       |
| 15660.000    | Average                      | 23.35                                   | 22.97        | 46.32                        | 54.00                        | -7.68        |

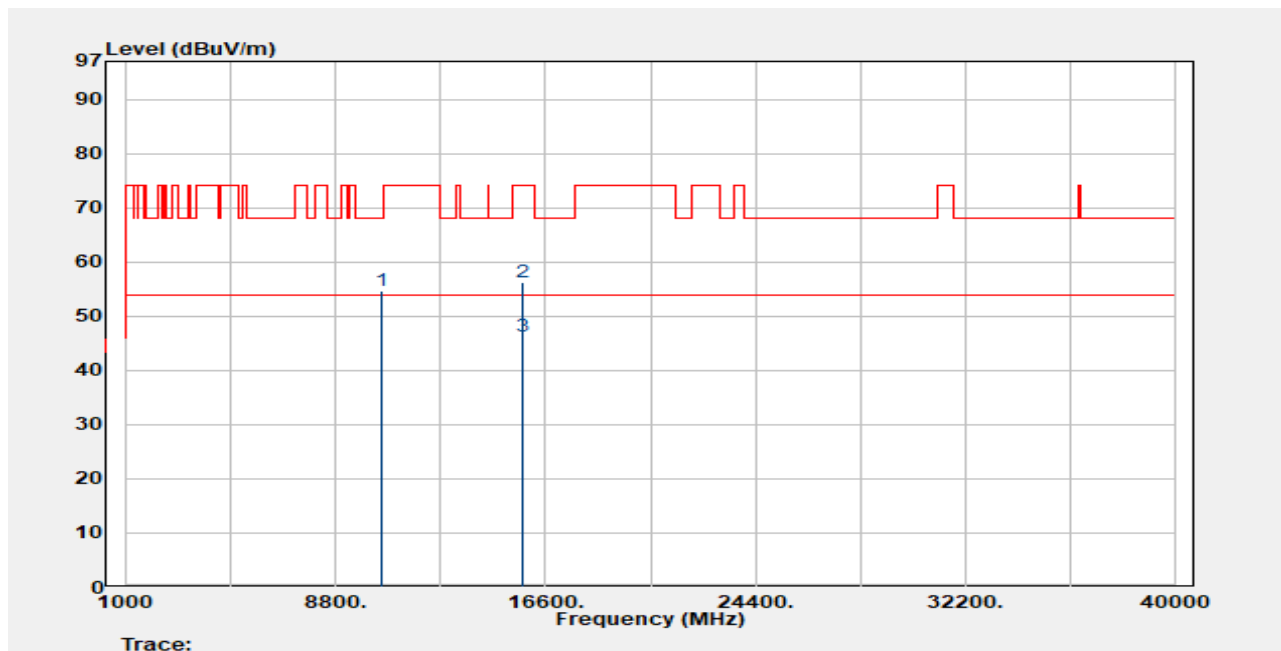
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5240 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10480.000    | Peak                         | 33.49                                   | 21.20        | 54.69                        | 68.20                        | -13.51       |
| 15720.000    | Peak                         | 33.15                                   | 23.12        | 56.27                        | 74.00                        | -17.73       |
| 15720.000    | Average                      | 23.22                                   | 23.12        | 46.34                        | 54.00                        | -7.66        |

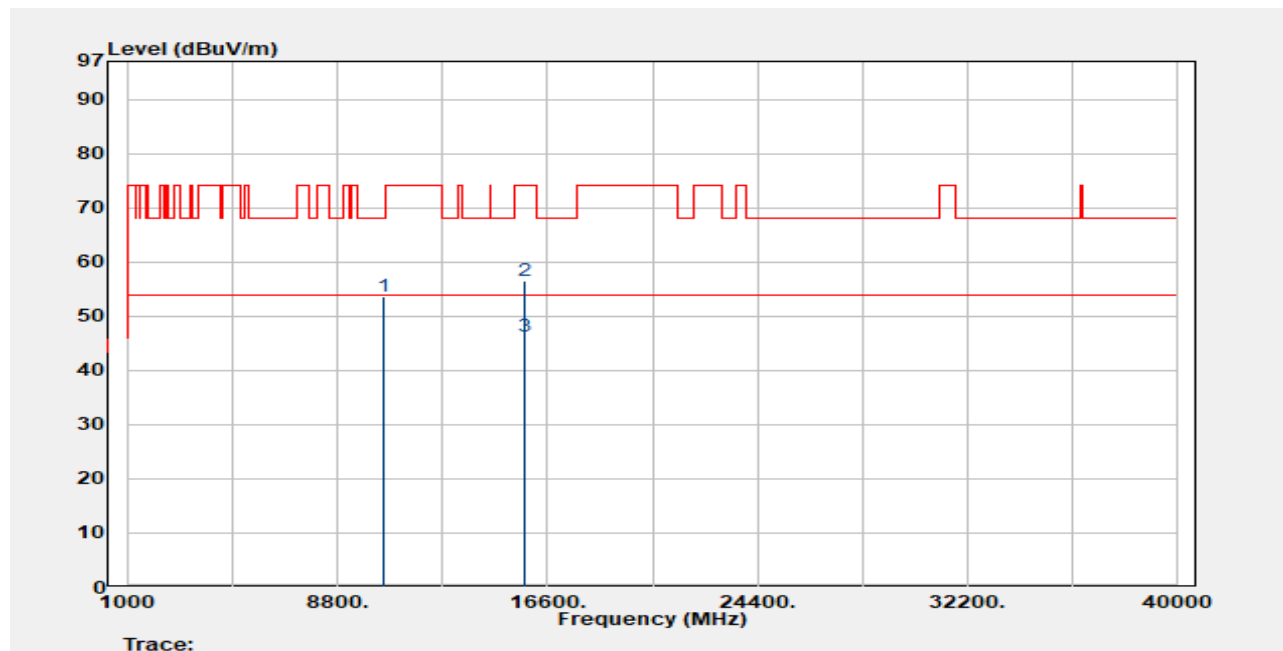
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5240 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10480.000    | Peak                         | 32.79                                   | 20.76        | 53.54                        | 68.20                        | -14.66       |
| 15720.000    | Peak                         | 33.47                                   | 23.01        | 56.48                        | 74.00                        | -17.52       |
| 15720.000    | Average                      | 23.19                                   | 23.01        | 46.20                        | 54.00                        | -7.80        |

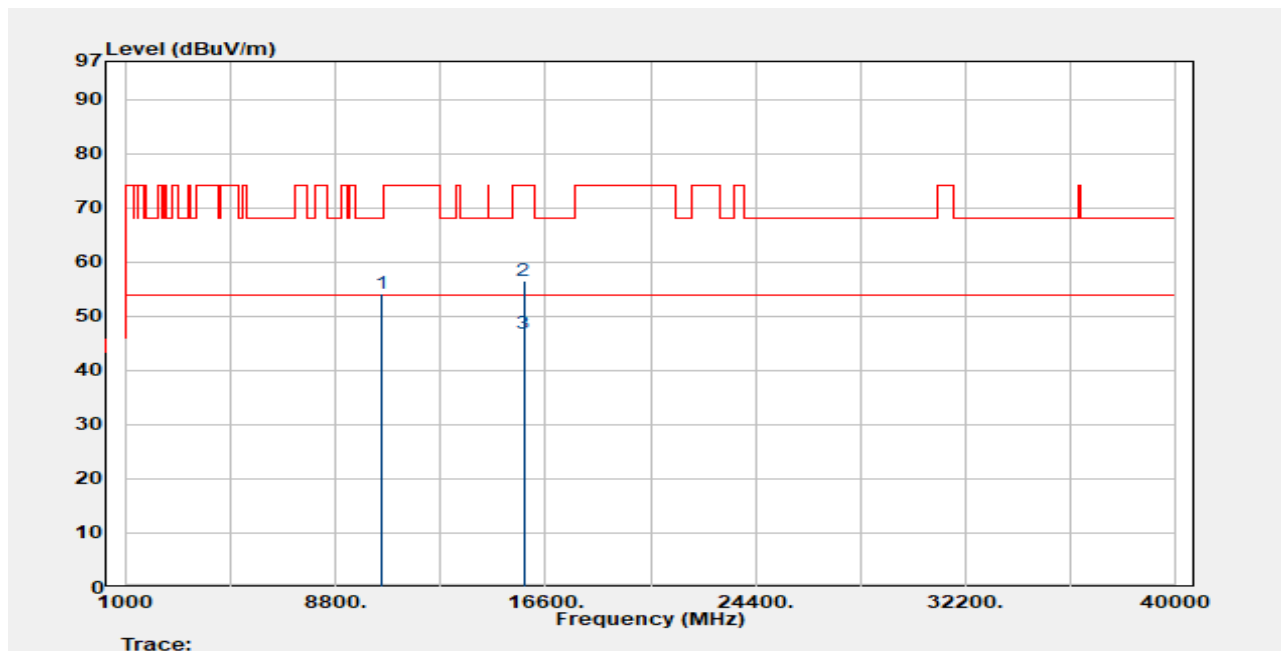
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5260 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10520.000    | Peak                         | 32.73                                   | 21.49        | 54.21                        | 68.20                        | -13.99       |
| 15780.000    | Peak                         | 33.14                                   | 23.44        | 56.58                        | 74.00                        | -17.42       |
| 15780.000    | Average                      | 23.28                                   | 23.44        | 46.72                        | 54.00                        | -7.28        |

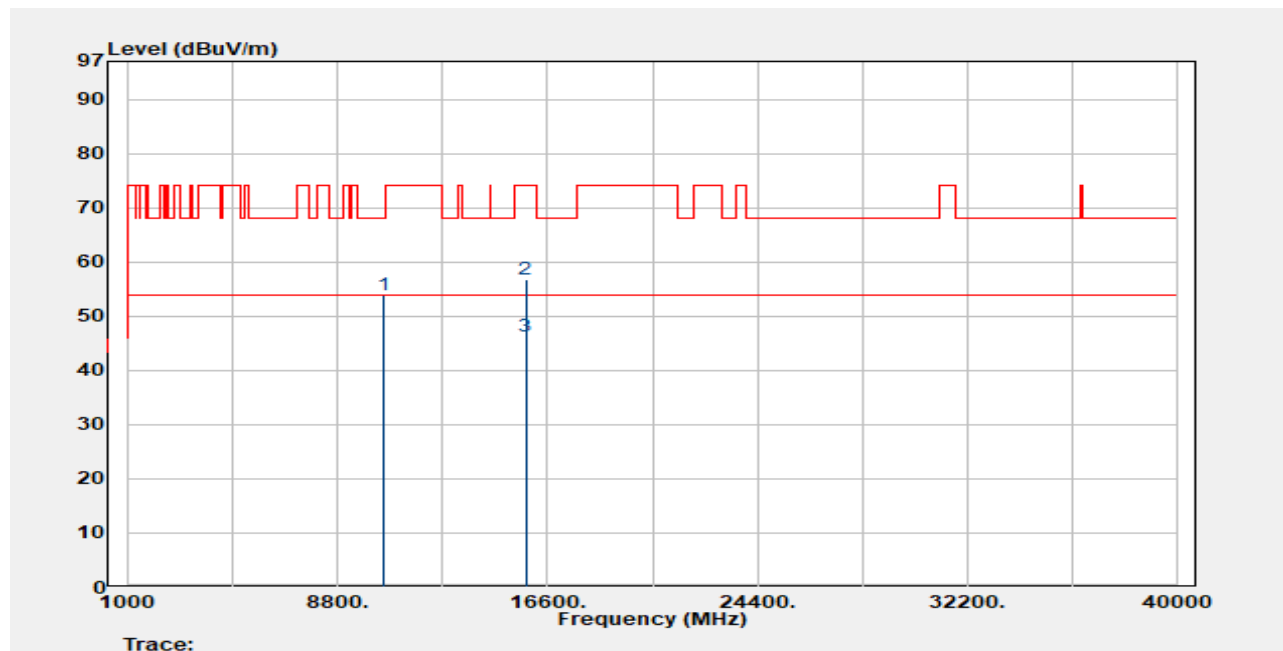
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5260 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10520.000    | Peak                         | 33.11                                   | 20.87        | 53.98                        | 68.20                        | -14.22       |
| 15780.000    | Peak                         | 33.83                                   | 23.08        | 56.91                        | 74.00                        | -17.09       |
| 15780.000    | Average                      | 23.24                                   | 23.08        | 46.32                        | 54.00                        | -7.68        |

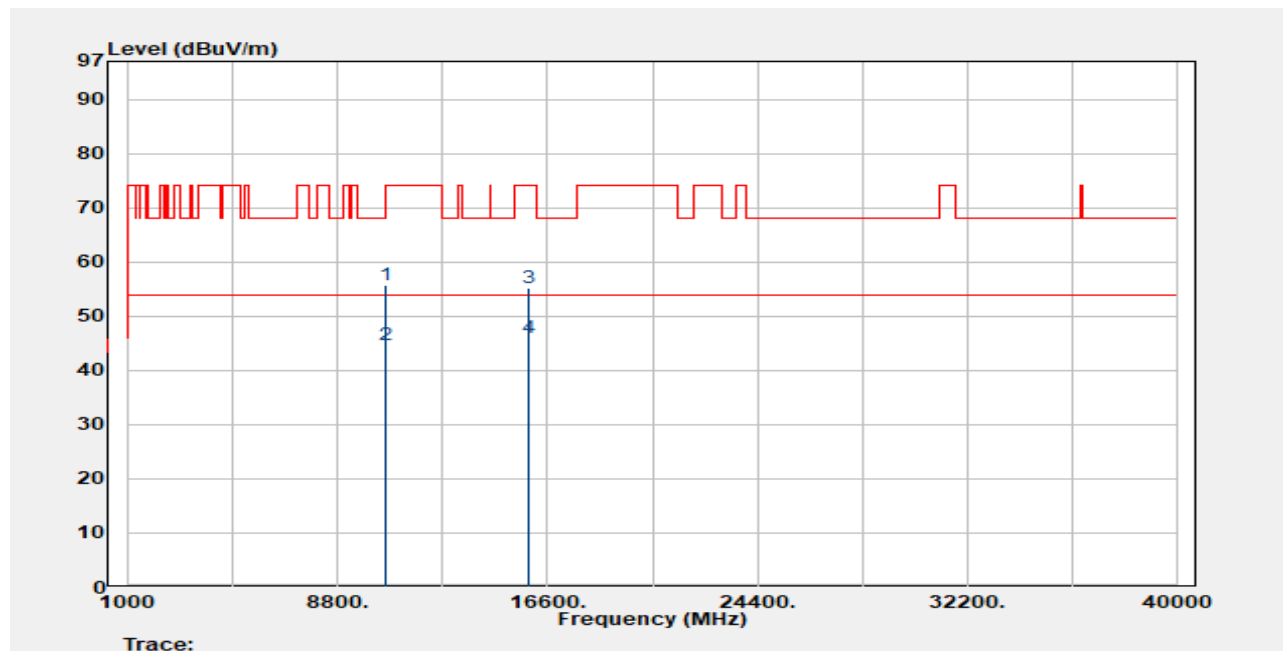
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5300 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10600.000    | Peak                         | 34.96                                   | 20.66        | 55.61                        | 74.00                        | -18.39       |
| 10600.000    | Average                      | 24.06                                   | 20.66        | 44.72                        | 54.00                        | -9.28        |
| 15900.000    | Peak                         | 32.32                                   | 22.90        | 55.22                        | 74.00                        | -18.78       |
| 15900.000    | Average                      | 23.03                                   | 22.90        | 45.93                        | 54.00                        | -8.07        |

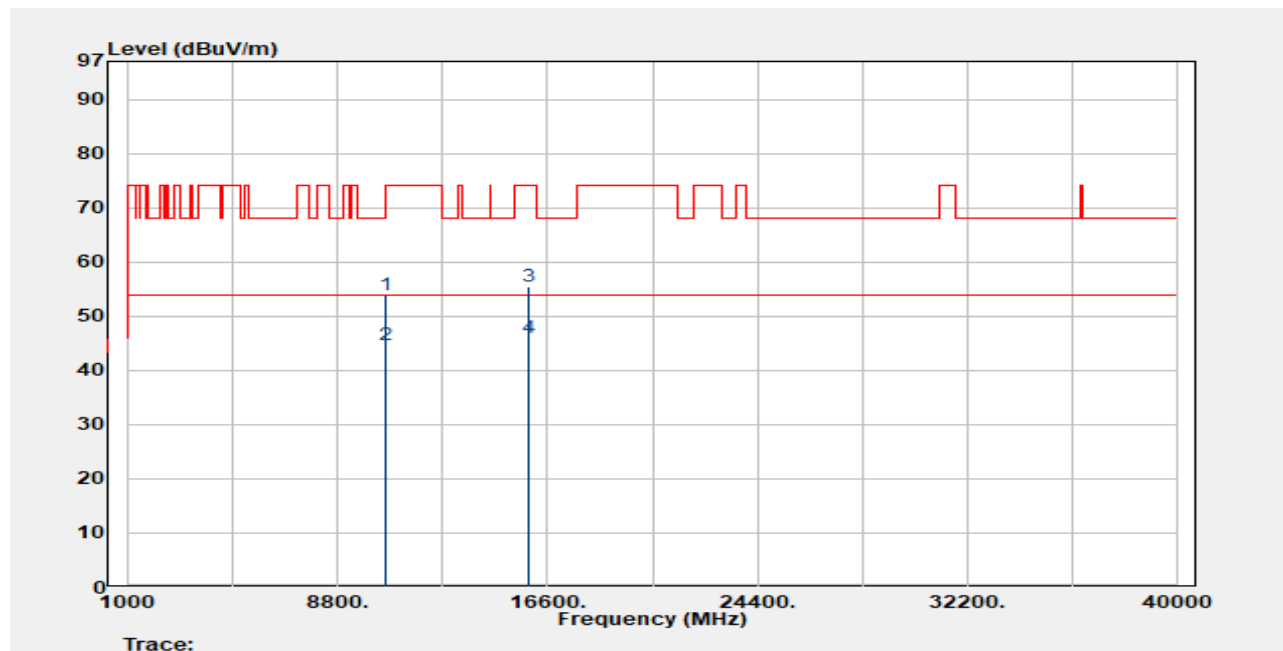
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5300 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10600.000    | Peak                         | 33.14                                   | 20.64        | 53.78                        | 74.00                        | -20.22       |
| 10600.000    | Average                      | 24.02                                   | 20.64        | 44.66                        | 54.00                        | -9.34        |
| 15900.000    | Peak                         | 32.32                                   | 23.03        | 55.35                        | 74.00                        | -18.65       |
| 15900.000    | Average                      | 22.93                                   | 23.03        | 45.96                        | 54.00                        | -8.04        |

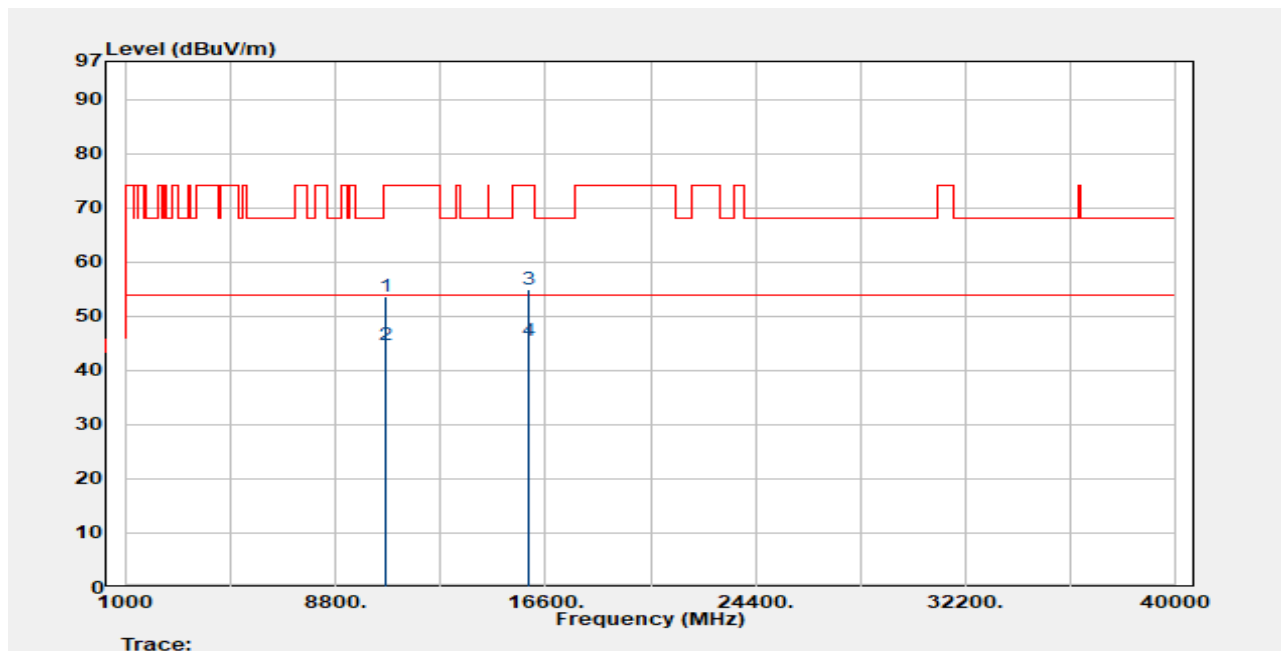
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5320 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10640.000    | Peak                         | 32.72                                   | 20.89        | 53.61                        | 74.00                        | -20.39       |
| 10640.000    | Average                      | 23.89                                   | 20.89        | 44.78                        | 54.00                        | -9.22        |
| 15960.000    | Peak                         | 32.74                                   | 22.07        | 54.81                        | 74.00                        | -19.19       |
| 15960.000    | Average                      | 23.36                                   | 22.07        | 45.43                        | 54.00                        | -8.57        |

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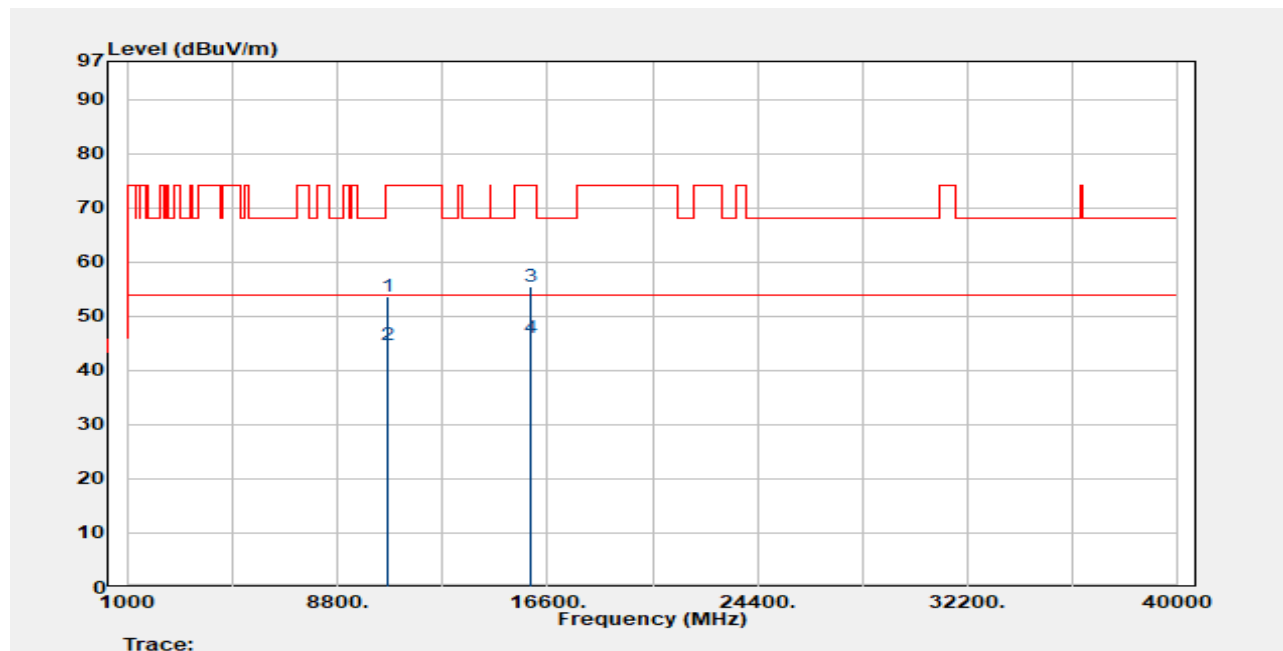
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5320 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10640.000    | Peak                         | 32.74                                   | 20.77        | 53.51                        | 74.00                        | -20.49       |
| 10640.000    | Average                      | 23.79                                   | 20.77        | 44.56                        | 54.00                        | -9.44        |
| 15960.000    | Peak                         | 32.78                                   | 22.59        | 55.37                        | 74.00                        | -18.63       |
| 15960.000    | Average                      | 23.36                                   | 22.59        | 45.95                        | 54.00                        | -8.05        |

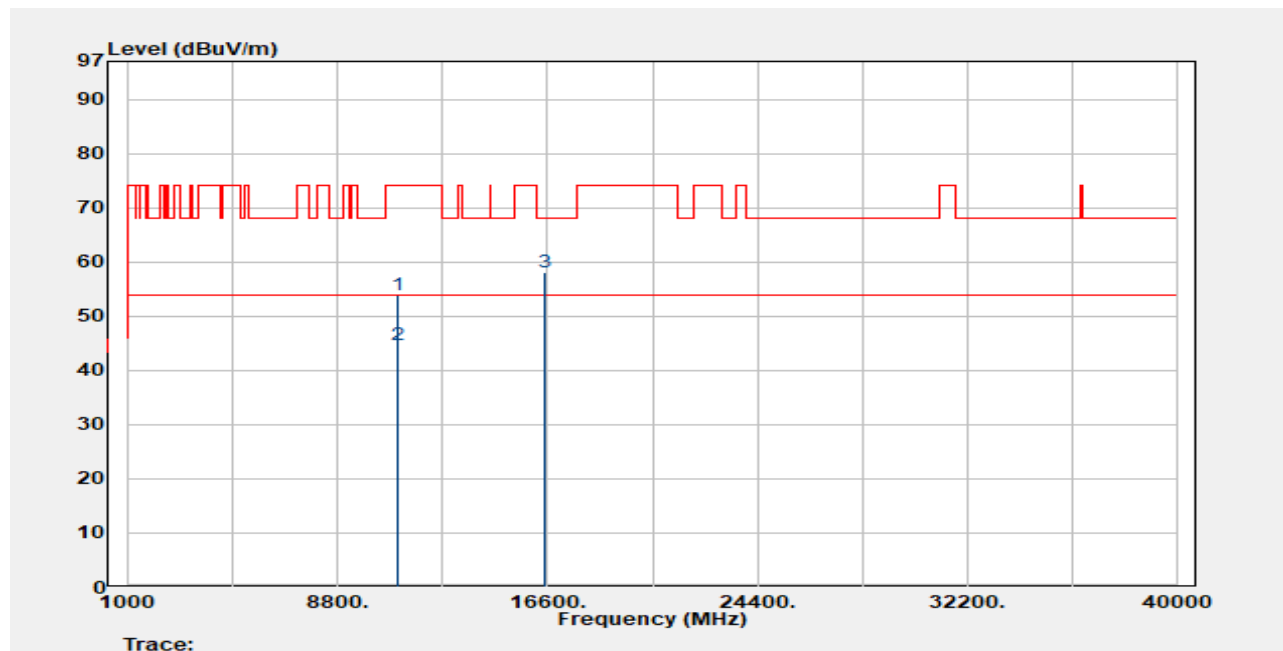
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5500 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11000.000    | Peak                         | 32.97                                   | 20.81        | 53.78                        | 74.00                        | -20.22       |
| 11000.000    | Average                      | 23.76                                   | 20.81        | 44.57                        | 54.00                        | -9.43        |
| 16500.000    | Peak                         | 33.19                                   | 24.95        | 58.14                        | 68.20                        | -10.06       |

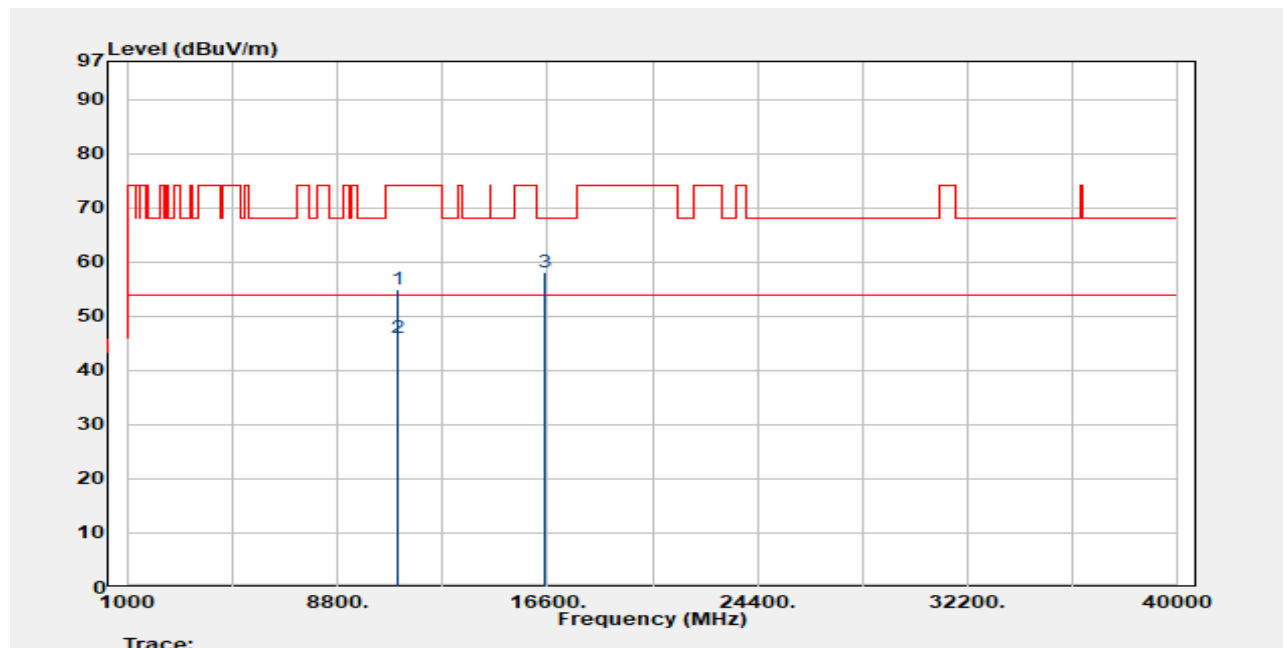
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5500 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11000.000    | Peak                         | 32.61                                   | 22.24        | 54.85                        | 74.00                        | -19.15       |
| 11000.000    | Average                      | 23.73                                   | 22.24        | 45.97                        | 54.00                        | -8.03        |
| 16500.000    | Peak                         | 32.66                                   | 25.33        | 57.99                        | 68.20                        | -10.21       |

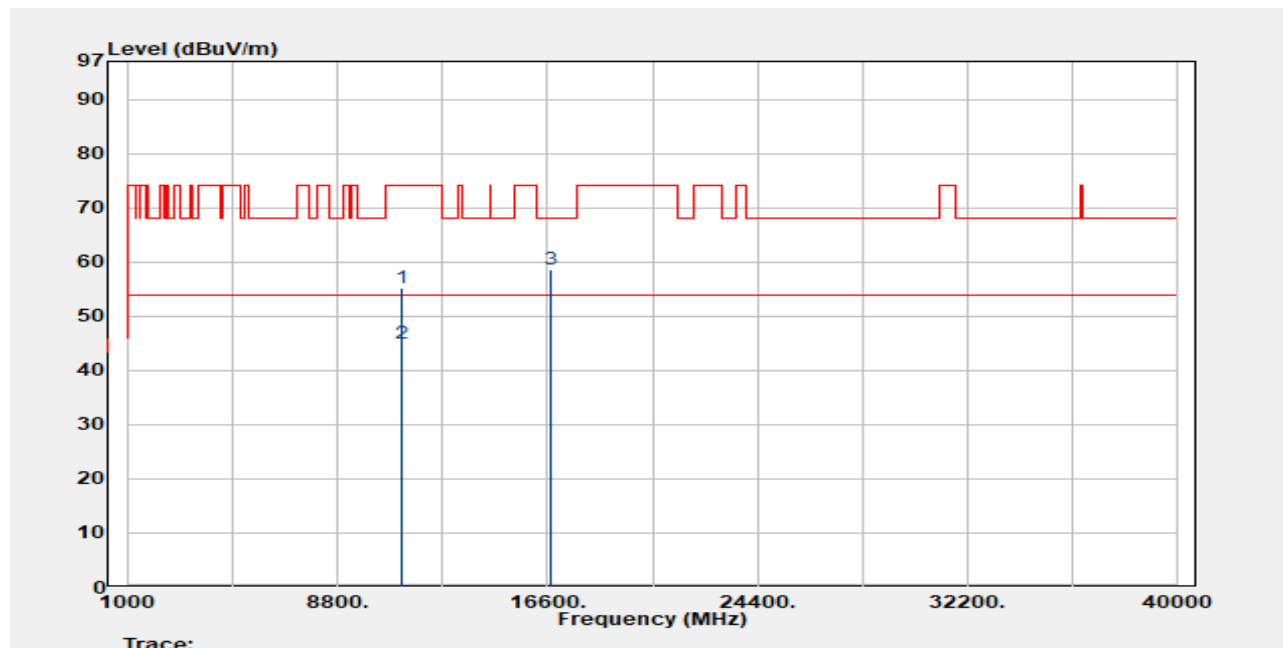
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5580 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11160.000    | Peak                         | 33.71                                   | 21.59        | 55.29                        | 74.00                        | -18.71       |
| 11160.000    | Average                      | 23.33                                   | 21.59        | 44.92                        | 54.00                        | -9.08        |
| 16740.000    | Peak                         | 31.16                                   | 27.42        | 58.58                        | 68.20                        | -9.62        |

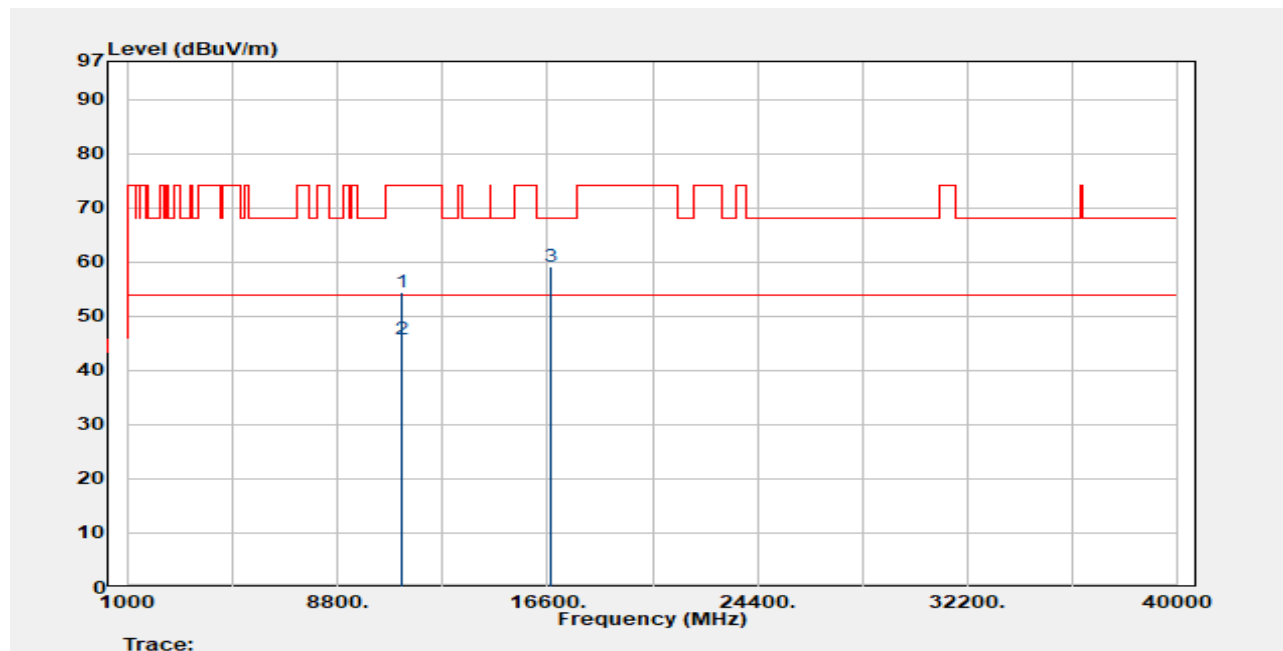
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5580 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11160.000    | Peak                         | 32.86                                   | 21.48        | 54.34                        | 74.00                        | -19.66       |
| 11160.000    | Average                      | 24.26                                   | 21.48        | 45.74                        | 54.00                        | -8.26        |
| 16740.000    | Peak                         | 32.03                                   | 27.01        | 59.04                        | 68.20                        | -9.16        |

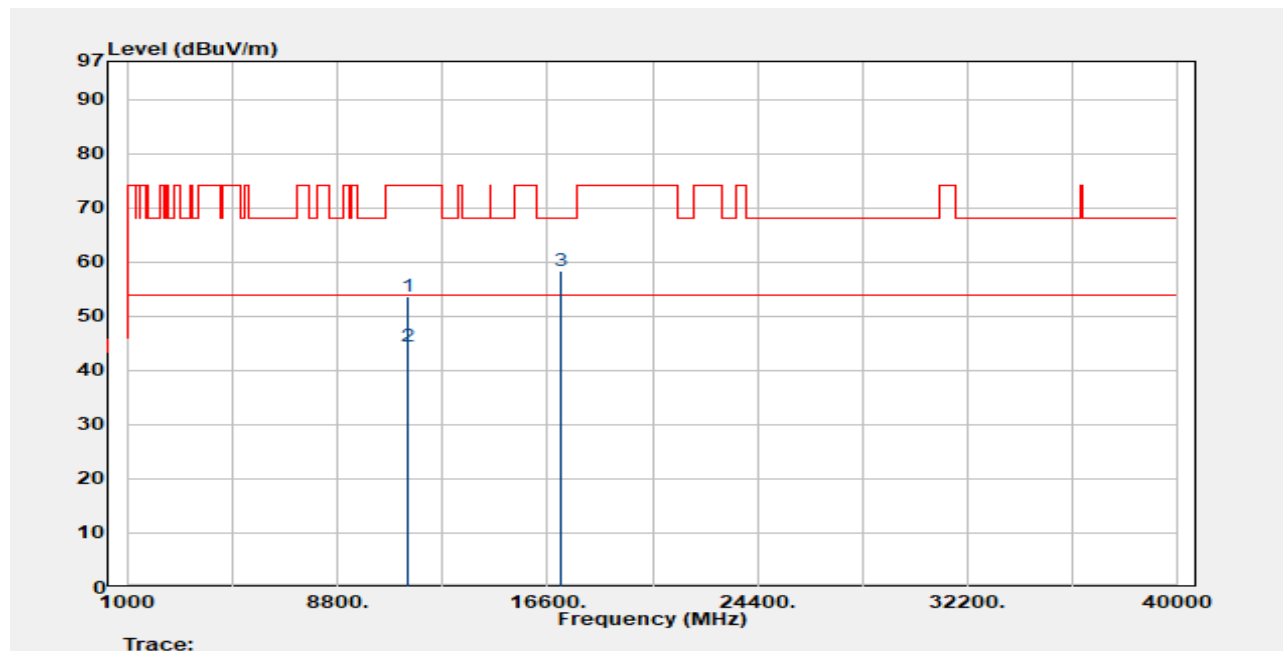
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5700 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11400.000    | Peak                         | 32.80                                   | 20.80        | 53.60                        | 74.00                        | -20.40       |
| 11400.000    | Average                      | 23.56                                   | 20.80        | 44.36                        | 54.00                        | -9.64        |
| 17100.000    | Peak                         | 31.69                                   | 26.77        | 58.46                        | 68.20                        | -9.74        |

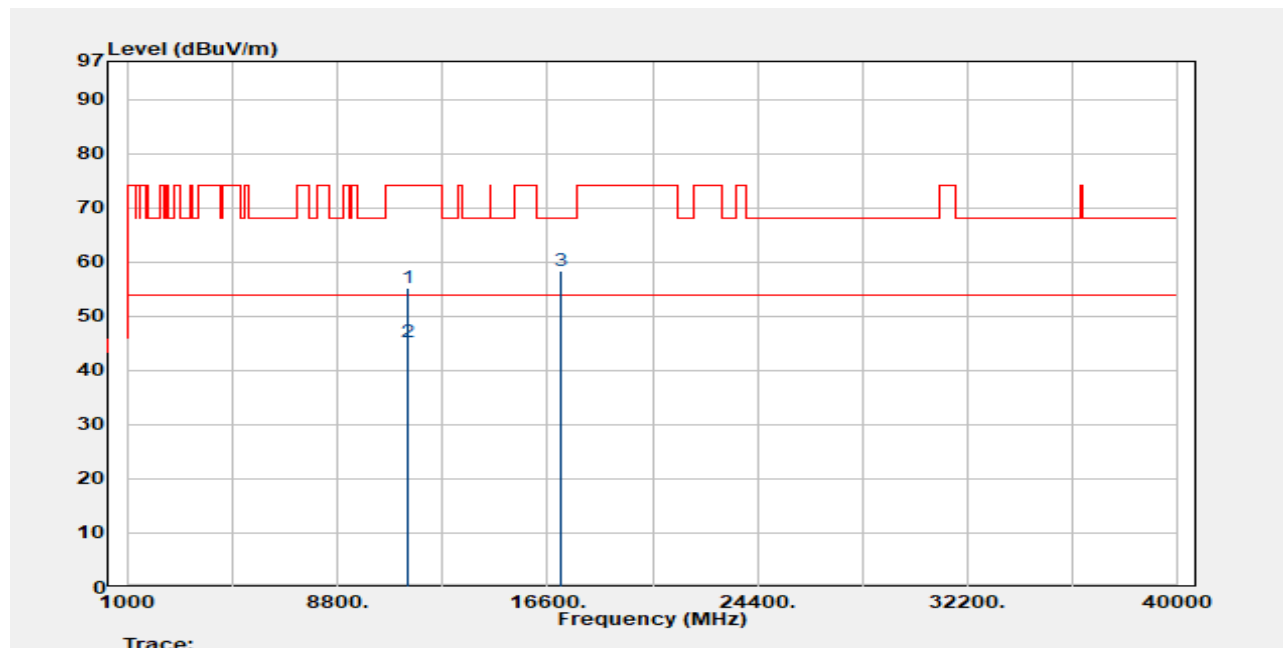
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5700 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11400.000    | Peak                         | 33.43                                   | 21.83        | 55.26                        | 74.00                        | -18.74       |
| 11400.000    | Average                      | 23.43                                   | 21.83        | 45.26                        | 54.00                        | -8.74        |
| 17100.000    | Peak                         | 31.22                                   | 27.23        | 58.45                        | 68.20                        | -9.75        |

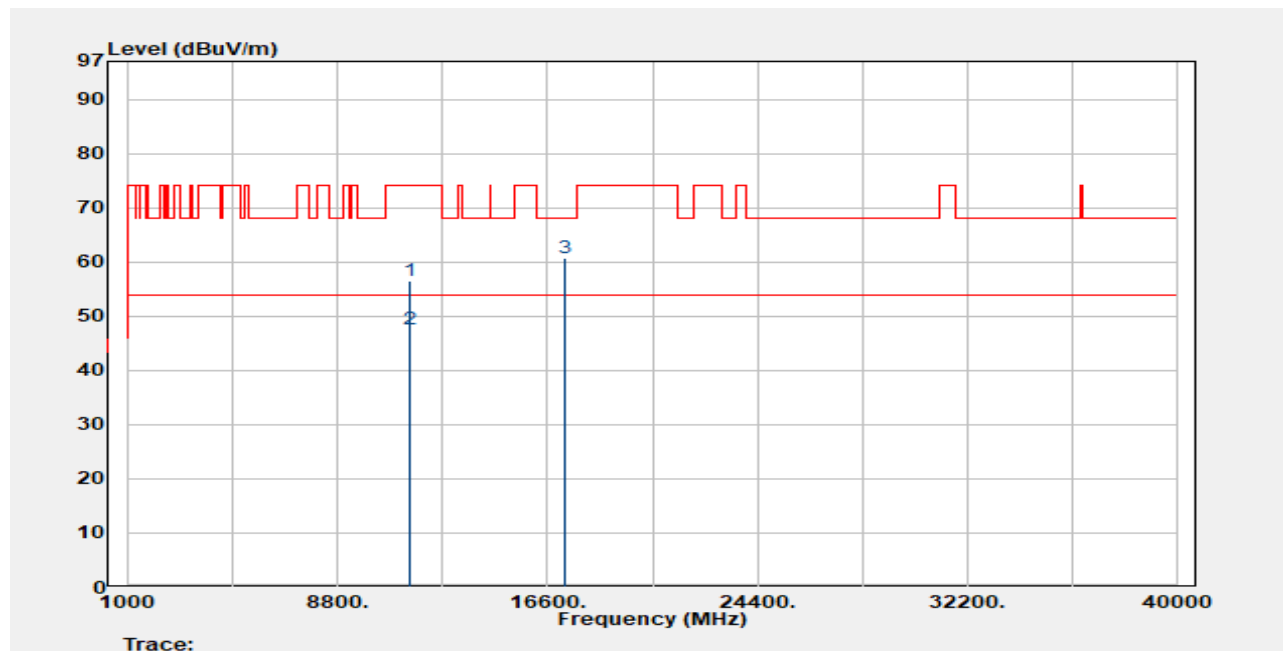
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5745 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB $\mu$ V | Factor dB | Actual FS dB $\mu$ V/m | Limit @3m dB $\mu$ V/m | Margin dB |
|-----------|------------------------|-----------------------------------|-----------|------------------------|------------------------|-----------|
| 11490.000 | Peak                   | 32.47                             | 23.98     | 56.44                  | 74.00                  | -17.56    |
| 11490.000 | Average                | 23.67                             | 23.98     | 47.65                  | 54.00                  | -6.35     |
| 17235.000 | Peak                   | 32.69                             | 28.13     | 60.82                  | 68.20                  | -7.38     |

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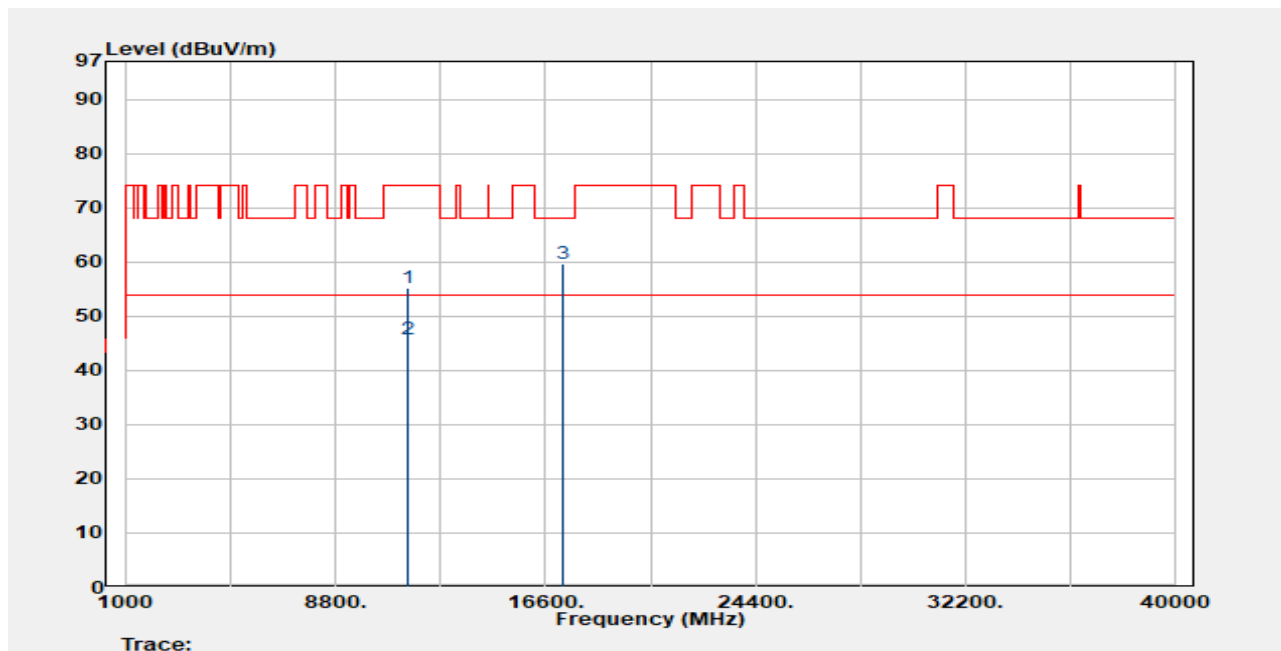
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5745 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11490.000    | Peak                         | 32.87                                   | 22.21        | 55.08                        | 74.00                        | -18.92       |
| 11490.000    | Average                      | 23.55                                   | 22.21        | 45.76                        | 54.00                        | -8.24        |
| 17235.000    | Peak                         | 31.52                                   | 28.20        | 59.72                        | 68.20                        | -8.48        |

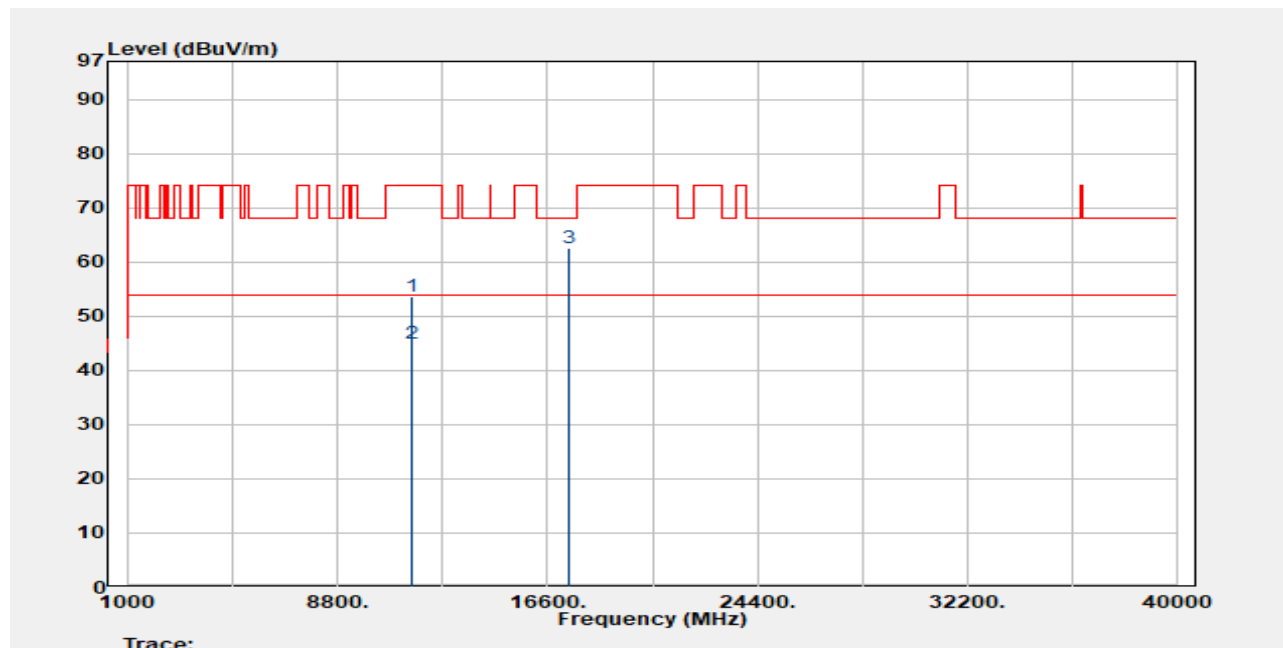
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5785 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11570.000    | Peak                         | 32.51                                   | 21.18        | 53.69                        | 74.00                        | -20.31       |
| 11570.000    | Average                      | 23.67                                   | 21.18        | 44.85                        | 54.00                        | -9.15        |
| 17355.000    | Peak                         | 32.80                                   | 29.74        | 62.54                        | 68.20                        | -5.66        |

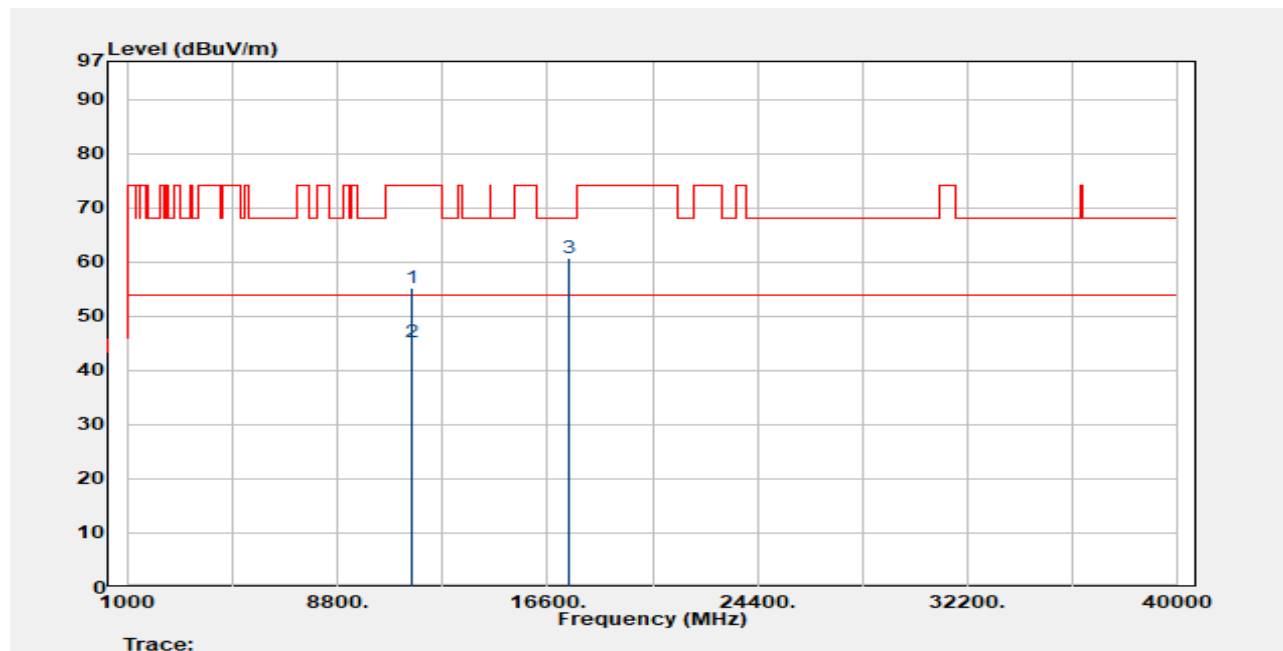
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5785 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11570.000    | Peak                         | 33.54                                   | 21.72        | 55.26                        | 74.00                        | -18.74       |
| 11570.000    | Average                      | 23.56                                   | 21.72        | 45.28                        | 54.00                        | -8.72        |
| 17355.000    | Peak                         | 31.66                                   | 28.99        | 60.65                        | 68.20                        | -7.55        |

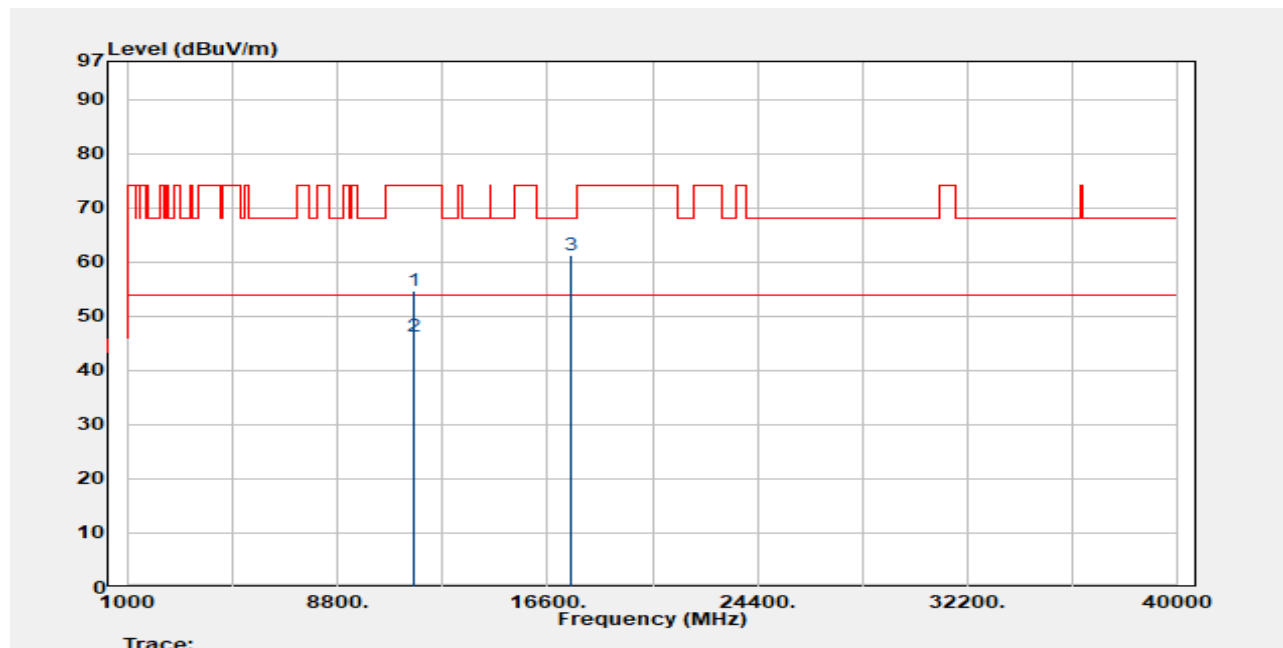
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5825 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11650.000    | Peak                         | 33.06                                   | 21.71        | 54.77                        | 74.00                        | -19.23       |
| 11650.000    | Average                      | 24.59                                   | 21.71        | 46.30                        | 54.00                        | -7.70        |
| 17475.000    | Peak                         | 31.44                                   | 29.72        | 61.16                        | 68.20                        | -7.04        |

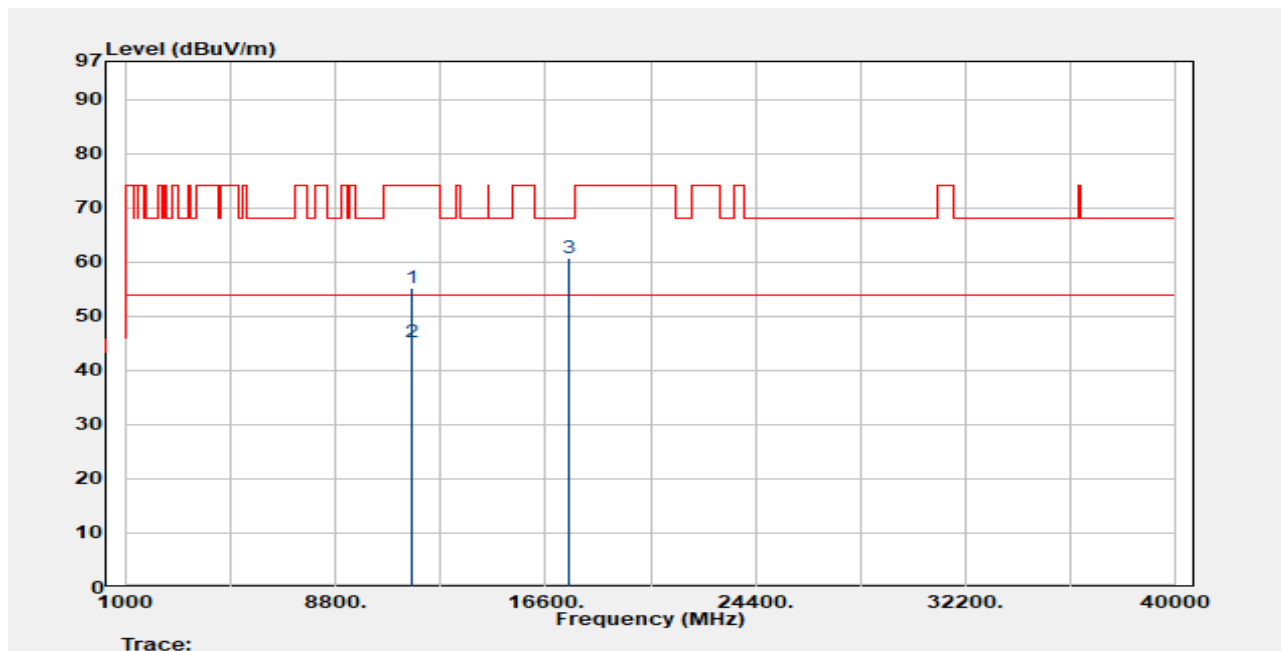
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5825 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11650.000    | Peak                         | 33.78                                   | 21.47        | 55.25                        | 74.00                        | -18.75       |
| 11650.000    | Average                      | 23.85                                   | 21.47        | 45.32                        | 54.00                        | -8.68        |
| 17475.000    | Peak                         | 31.36                                   | 29.31        | 60.68                        | 68.20                        | -7.52        |

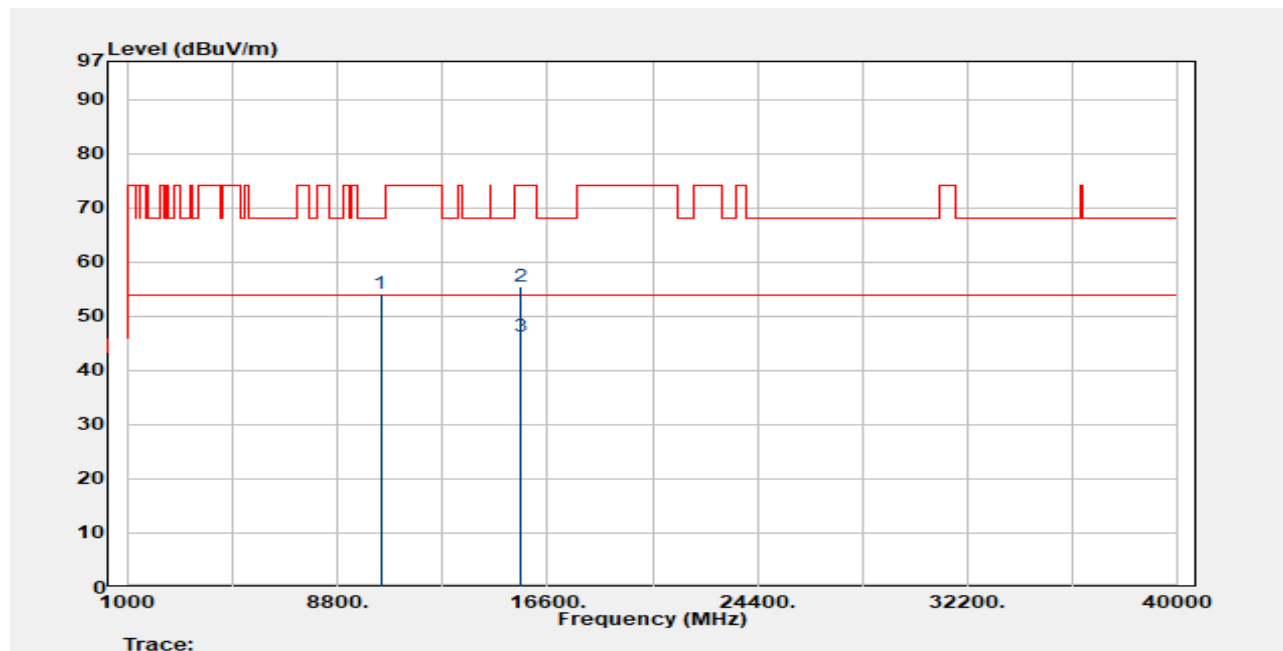
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5190 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10380.000    | Peak                         | 33.78                                   | 20.41        | 54.19                        | 68.20                        | -14.01       |
| 15570.000    | Peak                         | 32.37                                   | 23.17        | 55.54                        | 74.00                        | -18.46       |
| 15570.000    | Average                      | 22.98                                   | 23.17        | 46.15                        | 54.00                        | -7.85        |

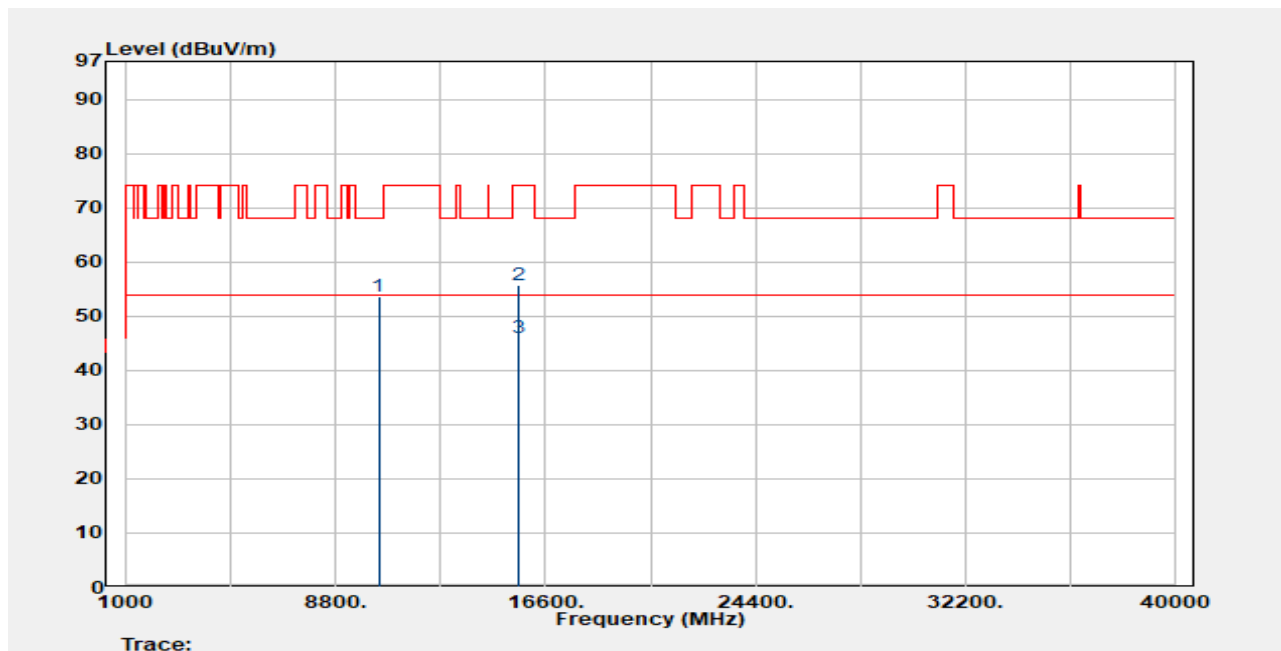
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5190 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10380.000    | Peak                         | 33.48                                   | 20.10        | 53.58                        | 68.20                        | -14.62       |
| 15570.000    | Peak                         | 32.56                                   | 23.07        | 55.63                        | 74.00                        | -18.37       |
| 15570.000    | Average                      | 22.95                                   | 23.07        | 46.02                        | 54.00                        | -7.98        |

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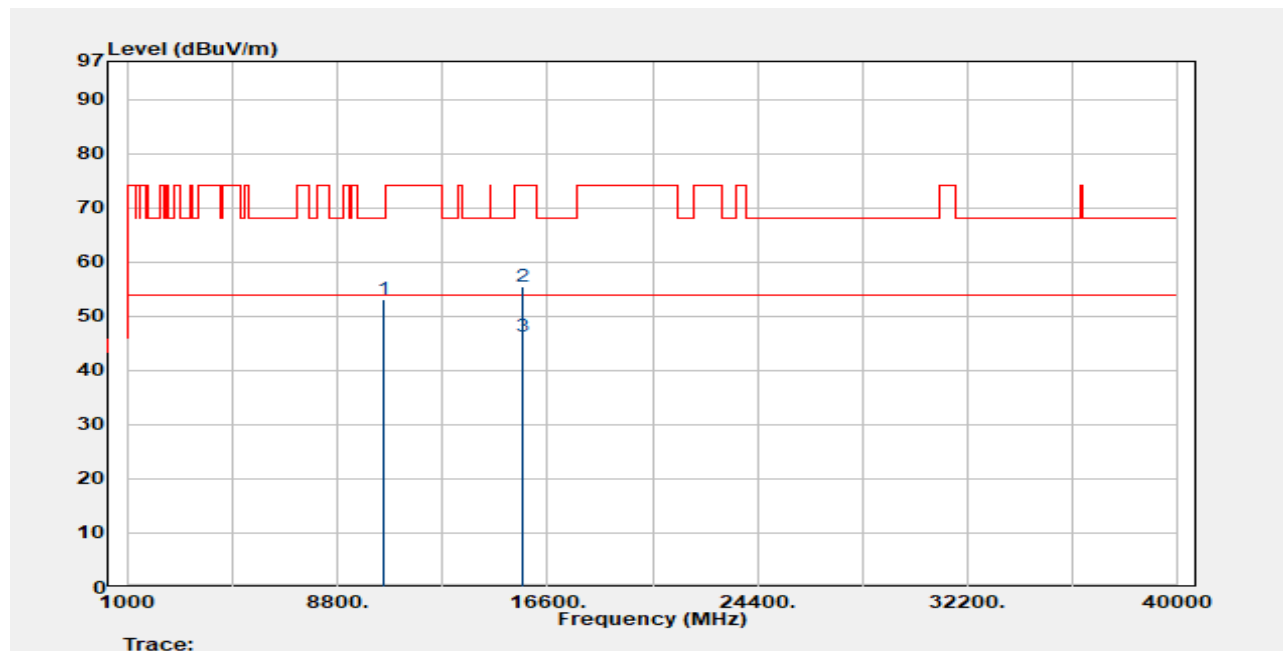
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5230 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10460.000    | Peak                         | 32.45                             | 20.63        | 53.08                  | 68.20                  | -15.12       |
| 15690.000    | Peak                         | 32.44                             | 22.90        | 55.34                  | 74.00                  | -18.66       |
| 15690.000    | Average                      | 23.42                             | 22.90        | 46.32                  | 54.00                  | -7.68        |

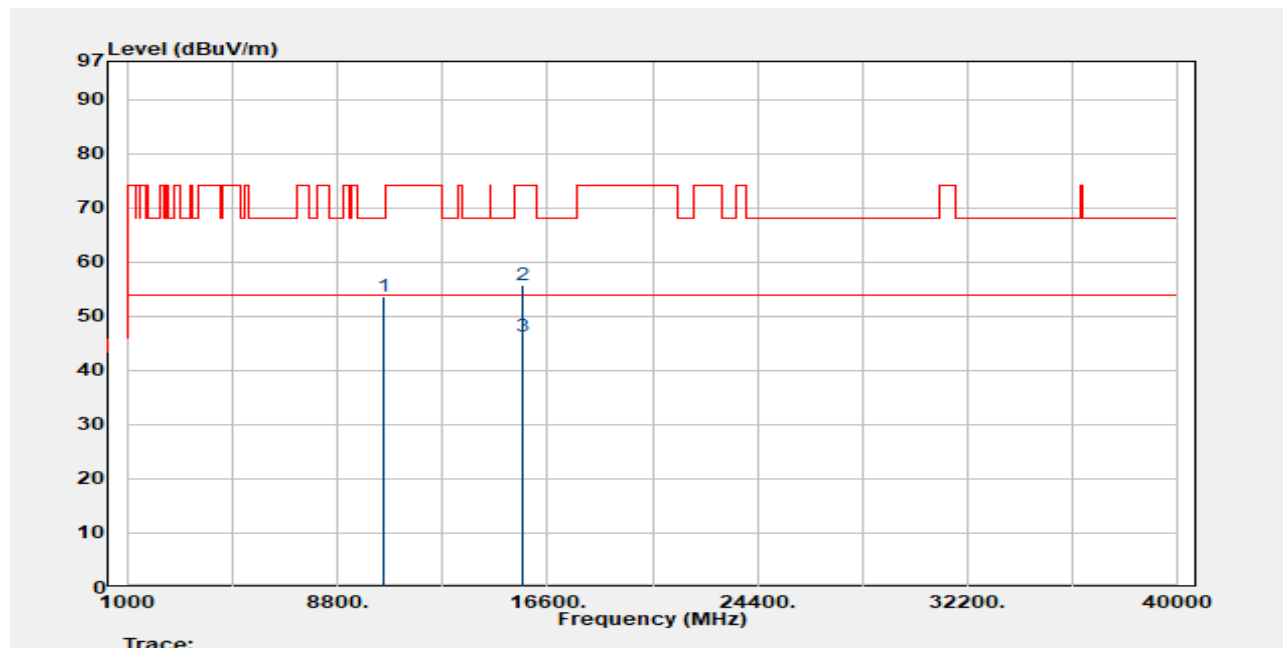
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5230 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10460.000    | Peak                         | 33.12                                   | 20.59        | 53.70                        | 68.20                        | -14.50       |
| 15690.000    | Peak                         | 32.75                                   | 22.98        | 55.73                        | 74.00                        | -18.27       |
| 15690.000    | Average                      | 23.36                                   | 22.98        | 46.34                        | 54.00                        | -7.66        |

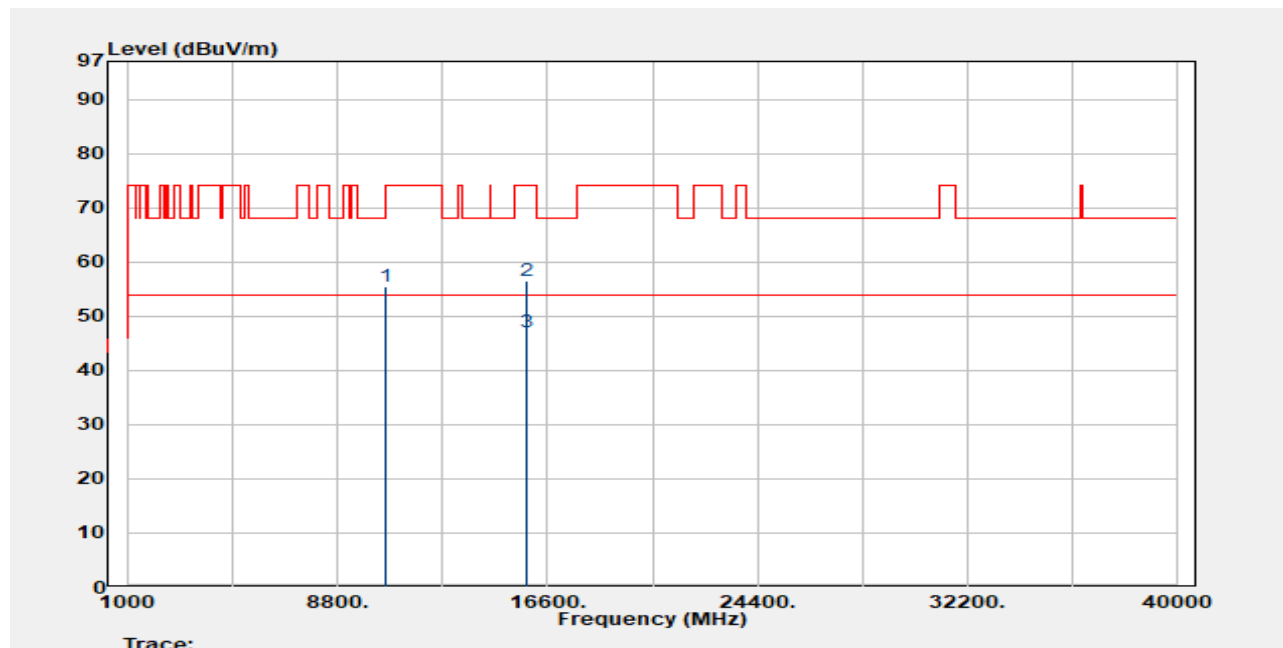
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5270 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10540.000    | Peak                         | 34.13                                   | 21.21        | 55.34                        | 68.20                        | -12.86       |
| 15810.000    | Peak                         | 33.09                                   | 23.48        | 56.57                        | 74.00                        | -17.43       |
| 15810.000    | Average                      | 23.46                                   | 23.48        | 46.94                        | 54.00                        | -7.06        |

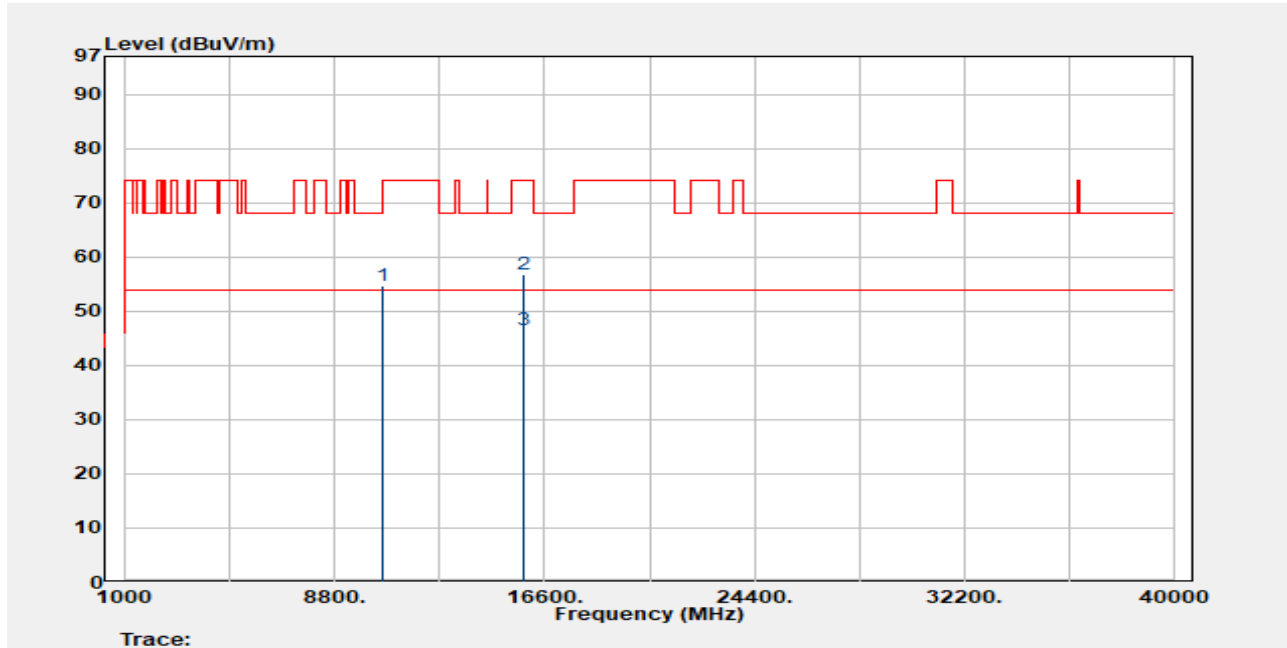
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5270 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10540.000    | Peak                         | 33.96                                   | 20.81        | 54.77                        | 68.20                        | -13.43       |
| 15810.000    | Peak                         | 33.56                                   | 23.10        | 56.66                        | 74.00                        | -17.34       |
| 15810.000    | Average                      | 23.40                                   | 23.10        | 46.50                        | 54.00                        | -7.50        |

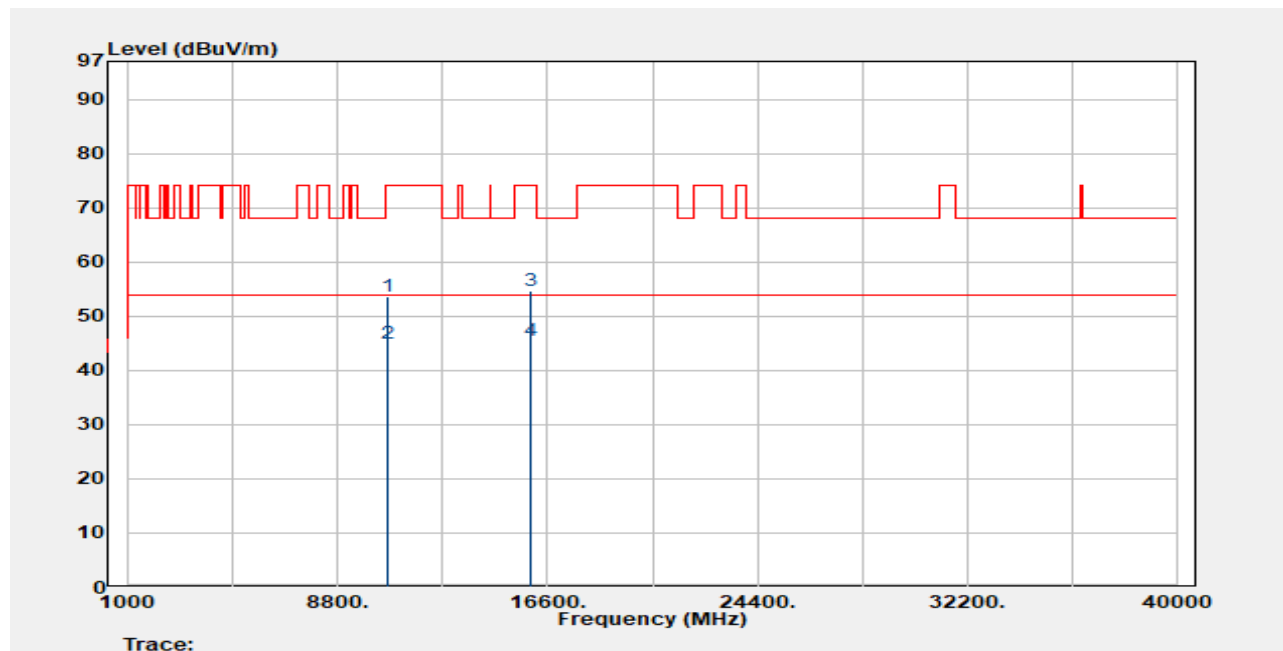
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5310 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10620.000    | Peak                         | 32.98                                   | 20.77        | 53.75                        | 74.00                        | -20.25       |
| 10620.000    | Average                      | 24.11                                   | 20.77        | 44.88                        | 54.00                        | -9.12        |
| 15930.000    | Peak                         | 32.45                                   | 22.32        | 54.77                        | 74.00                        | -19.23       |
| 15930.000    | Average                      | 23.26                                   | 22.32        | 45.58                        | 54.00                        | -8.42        |

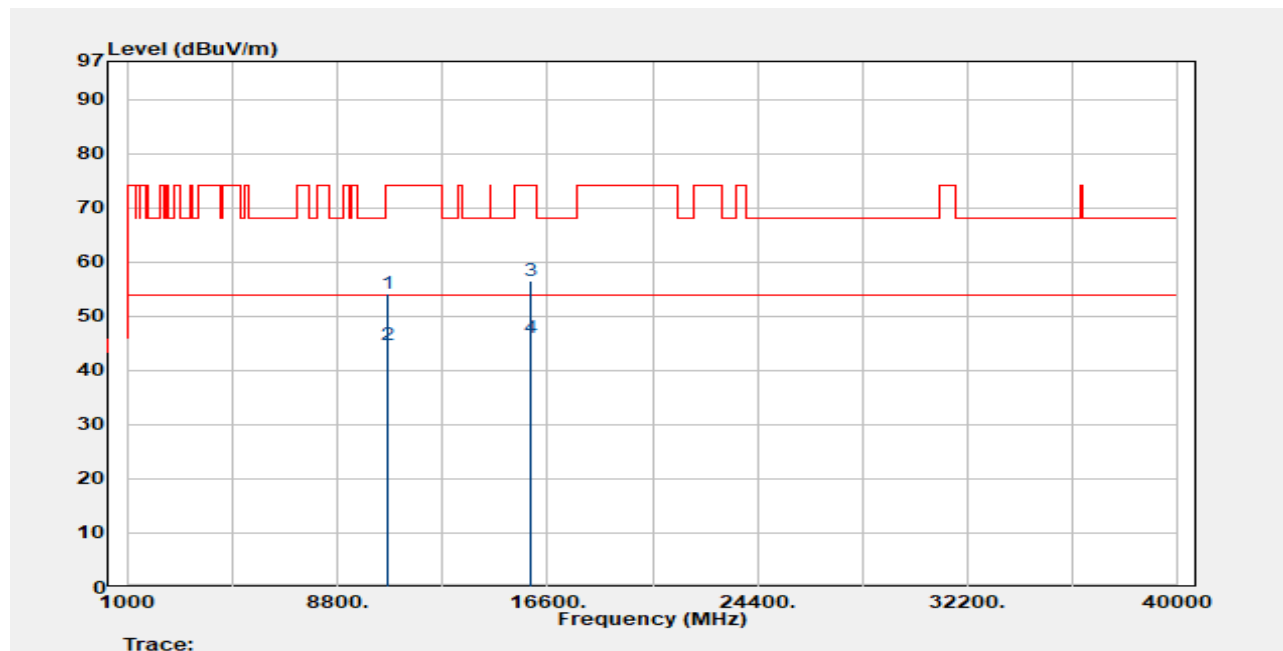
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5310 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|-----------|------------------------|-----------------------------|-----------|------------------|------------------|-----------|
| 10620.000 | Peak                   | 33.37                       | 20.70     | 54.08            | 74.00            | -19.92    |
| 10620.000 | Average                | 23.92                       | 20.70     | 44.62            | 54.00            | -9.38     |
| 15930.000 | Peak                   | 33.60                       | 22.81     | 56.41            | 74.00            | -17.59    |
| 15930.000 | Average                | 23.19                       | 22.81     | 46.00            | 54.00            | -8.00     |

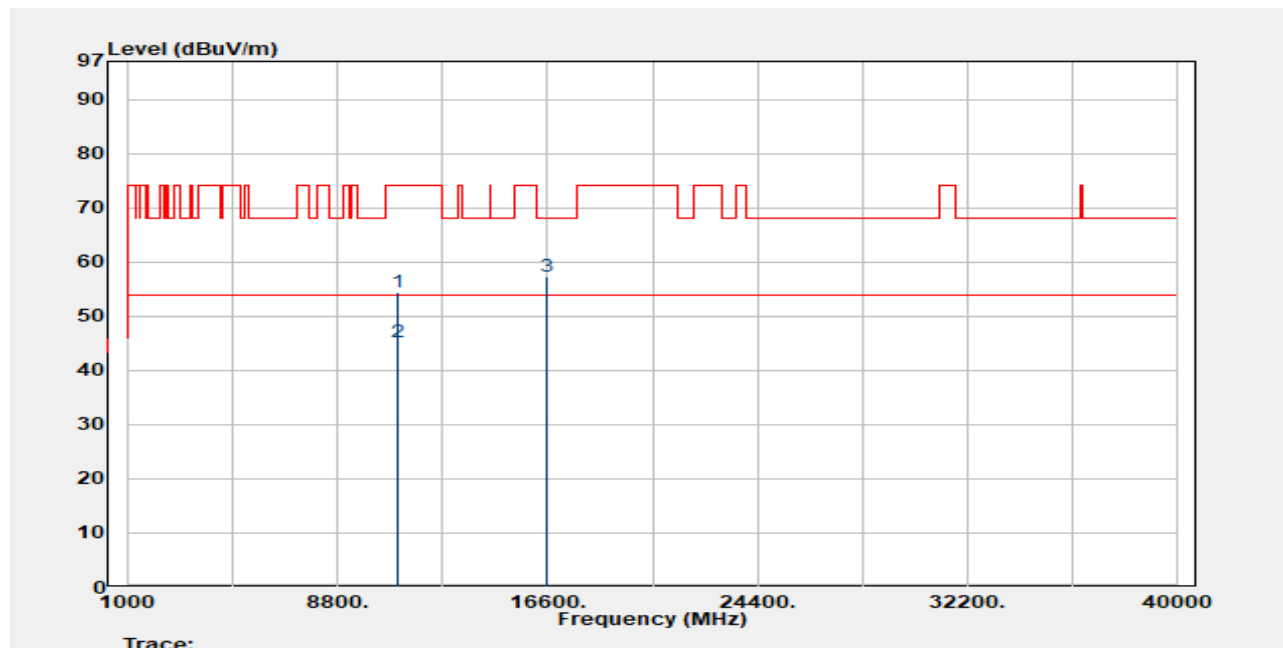
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5510 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11020.000    | Peak                         | 32.84                                   | 21.44        | 54.29                        | 74.00                        | -19.71       |
| 11020.000    | Average                      | 23.86                                   | 21.44        | 45.30                        | 54.00                        | -8.70        |
| 16530.000    | Peak                         | 32.14                                   | 25.15        | 57.29                        | 68.20                        | -10.91       |

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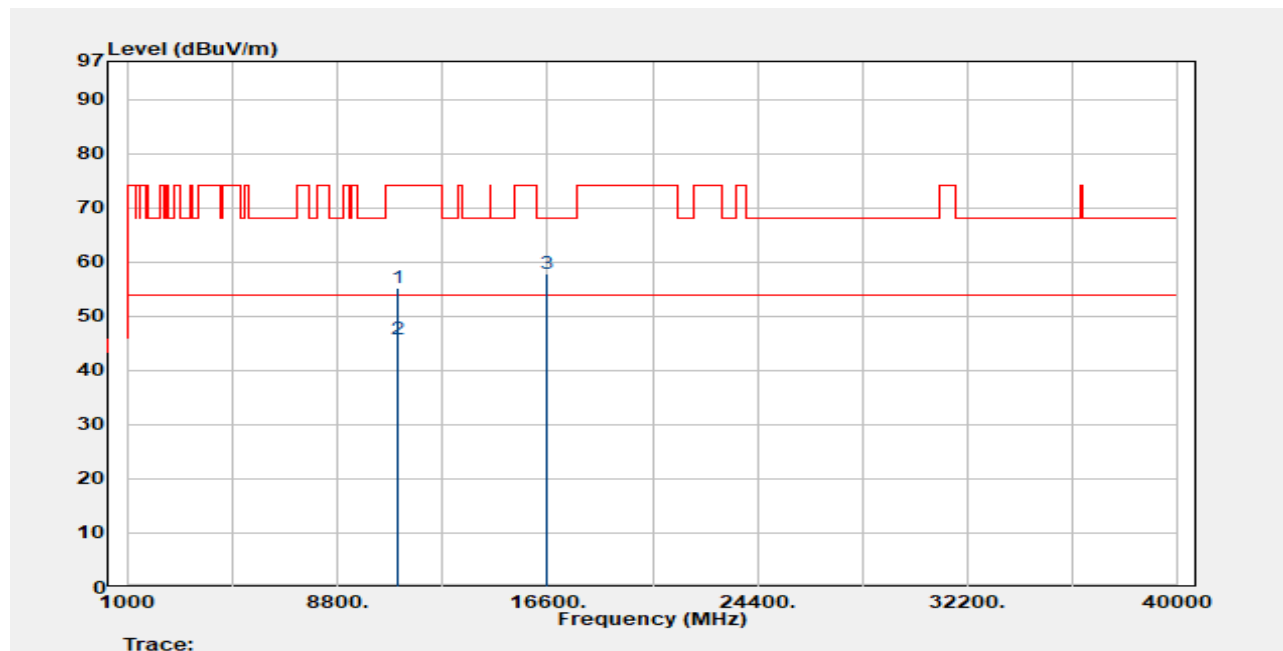
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5510 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11020.000    | Peak                         | 33.19                                   | 22.05        | 55.24                        | 74.00                        | -18.76       |
| 11020.000    | Average                      | 23.65                                   | 22.05        | 45.70                        | 54.00                        | -8.30        |
| 16530.000    | Peak                         | 32.49                                   | 25.43        | 57.93                        | 68.20                        | -10.27       |

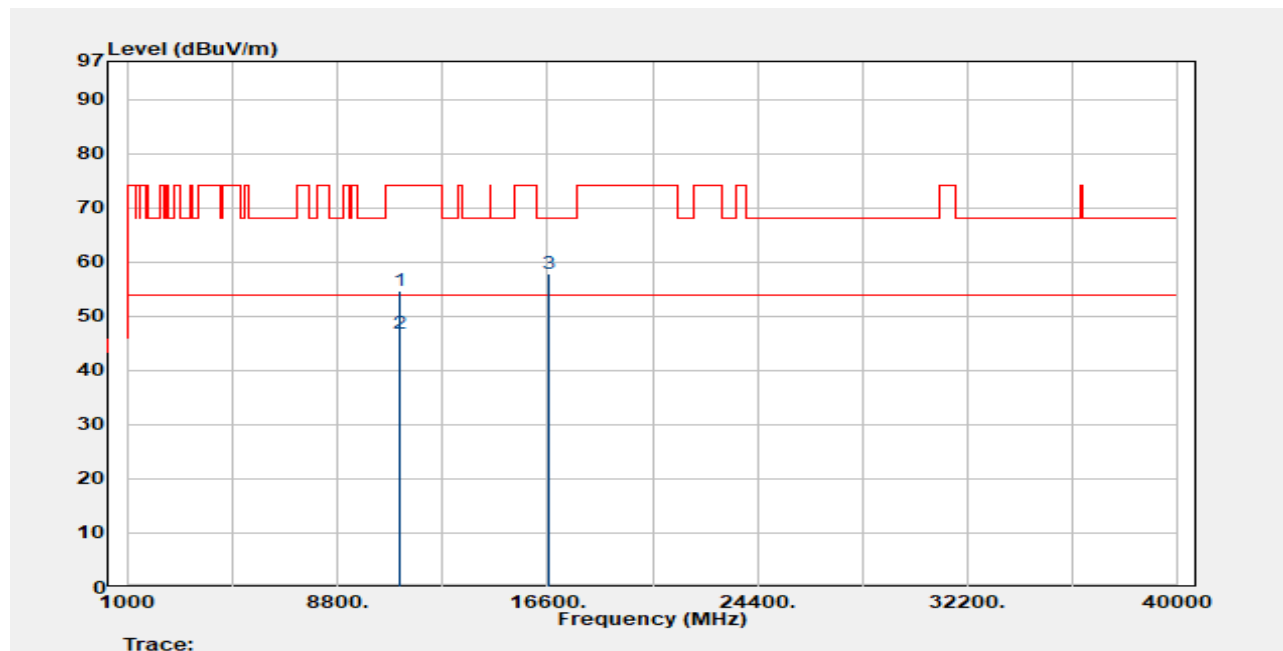
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5550 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11100.000    | Peak                         | 32.35                                   | 22.37        | 54.72                        | 74.00                        | -19.28       |
| 11100.000    | Average                      | 24.41                                   | 22.37        | 46.78                        | 54.00                        | -7.22        |
| 16650.000    | Peak                         | 31.93                                   | 25.82        | 57.75                        | 68.20                        | -10.45       |

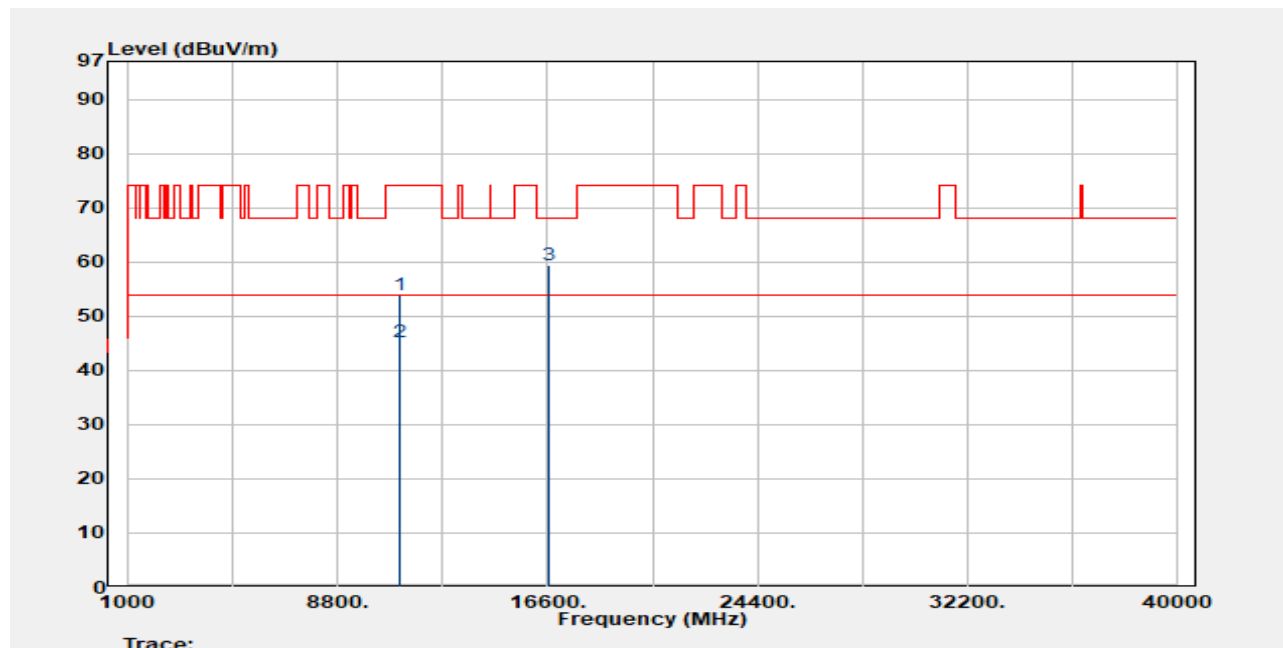
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5550 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11100.000    | Peak                         | 32.60                                   | 21.31        | 53.91                        | 74.00                        | -20.09       |
| 11100.000    | Average                      | 23.97                                   | 21.31        | 45.28                        | 54.00                        | -8.72        |
| 16650.000    | Peak                         | 33.39                                   | 26.05        | 59.44                        | 68.20                        | -8.76        |

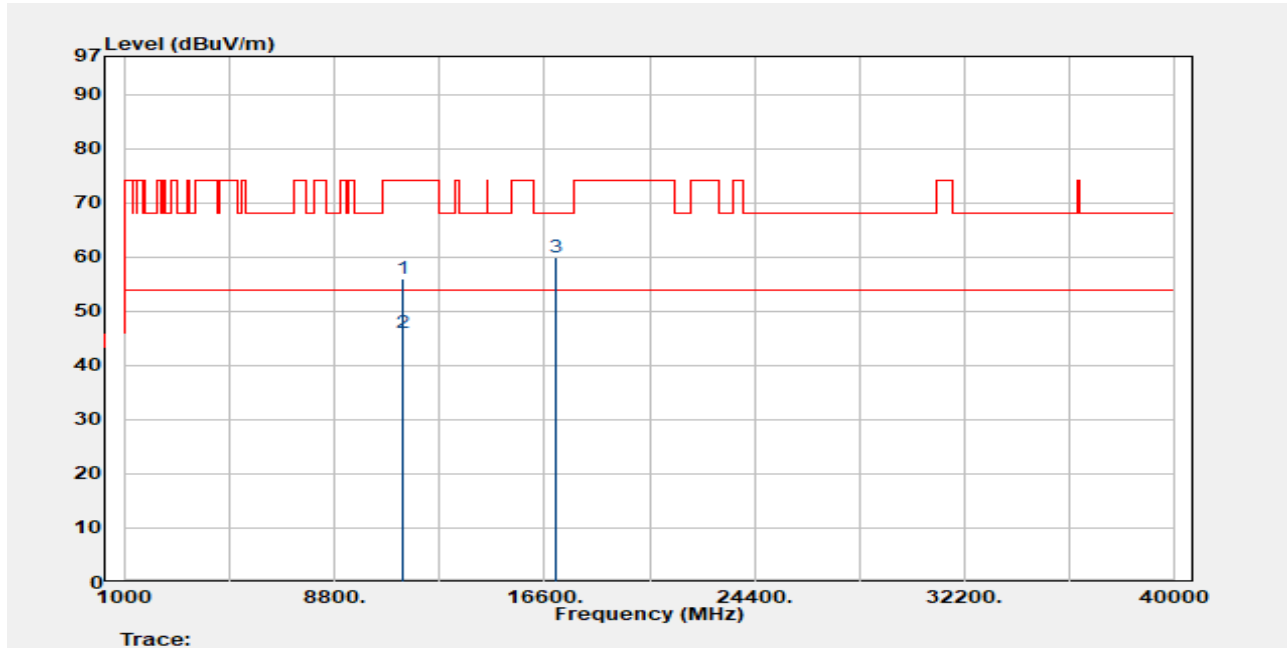
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5670 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11340.000    | Peak                         | 34.02                                   | 21.96        | 55.98                        | 74.00                        | -18.02       |
| 11340.000    | Average                      | 24.02                                   | 21.96        | 45.98                        | 54.00                        | -8.02        |
| 17010.000    | Peak                         | 31.74                                   | 28.28        | 60.01                        | 68.20                        | -8.19        |

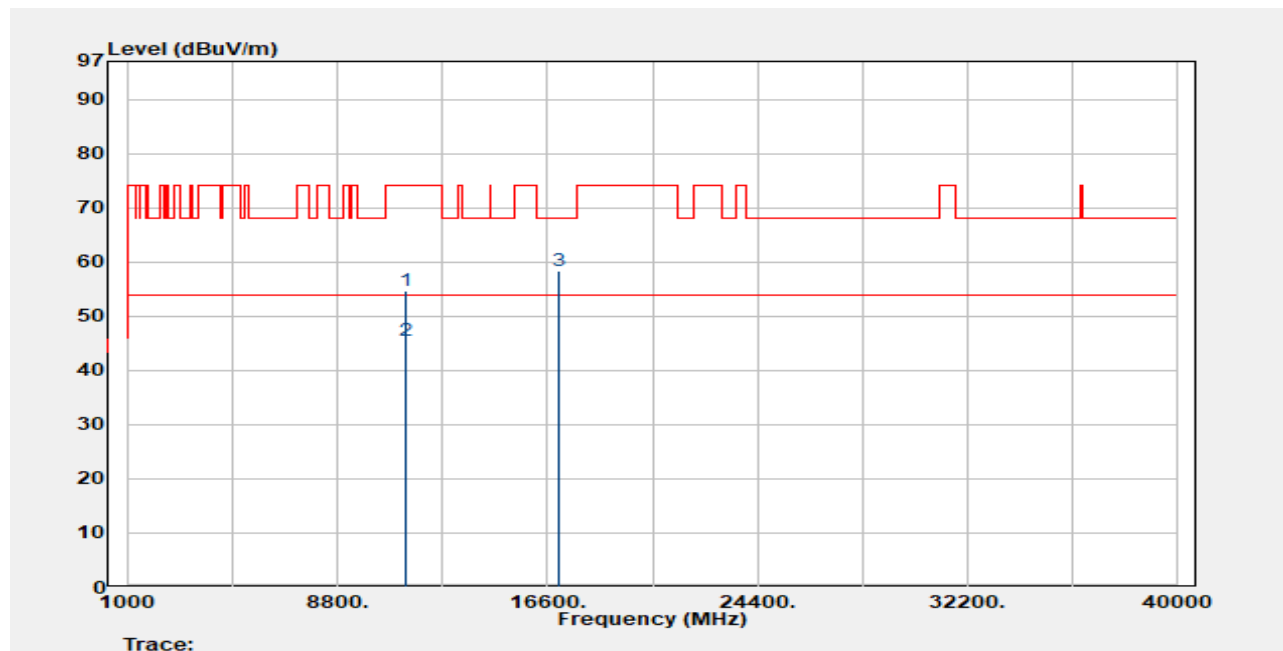
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5670 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB $\mu$ V | Factor dB | Actual FS dB $\mu$ V/m | Limit @3m dB $\mu$ V/m | Margin dB |
|-----------|------------------------|-----------------------------------|-----------|------------------------|------------------------|-----------|
| 11340.000 | Peak                   | 33.17                             | 21.62     | 54.78                  | 74.00                  | -19.22    |
| 11340.000 | Average                | 23.79                             | 21.62     | 45.41                  | 54.00                  | -8.59     |
| 17010.000 | Peak                   | 30.77                             | 27.50     | 58.27                  | 68.20                  | -9.93     |

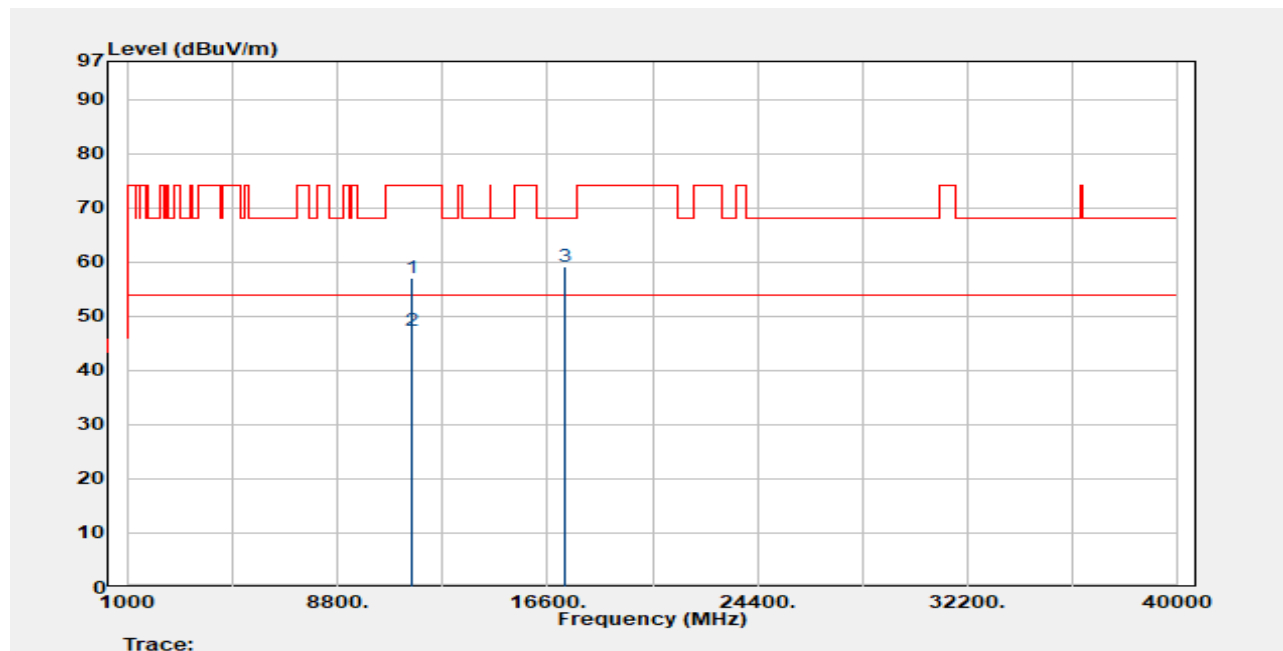
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5755 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11510.000    | Peak                         | 33.12                                   | 23.86        | 56.98                        | 74.00                        | -17.02       |
| 11510.000    | Average                      | 23.55                                   | 23.86        | 47.41                        | 54.00                        | -6.59        |
| 17265.000    | Peak                         | 30.97                                   | 28.08        | 59.05                        | 68.20                        | -9.15        |

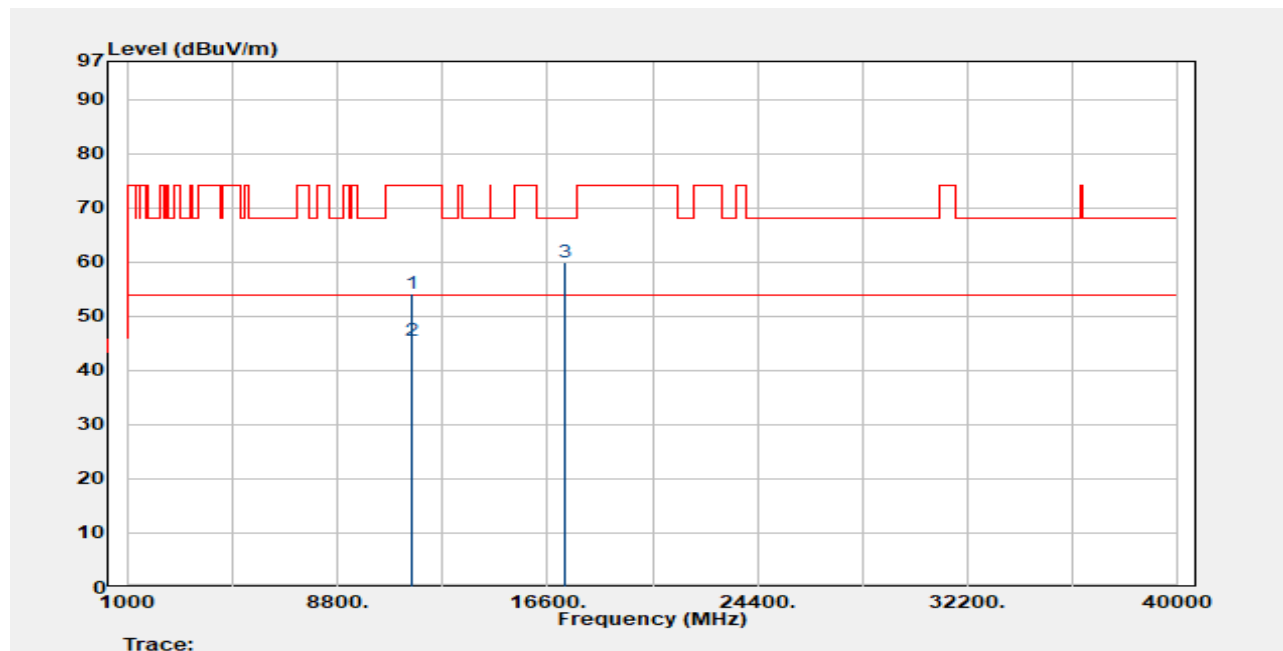
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5755 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11510.000    | Peak                         | 31.86                                   | 22.18        | 54.04                        | 74.00                        | -19.96       |
| 11510.000    | Average                      | 23.27                                   | 22.18        | 45.45                        | 54.00                        | -8.55        |
| 17265.000    | Peak                         | 31.70                                   | 28.20        | 59.89                        | 68.20                        | -8.31        |

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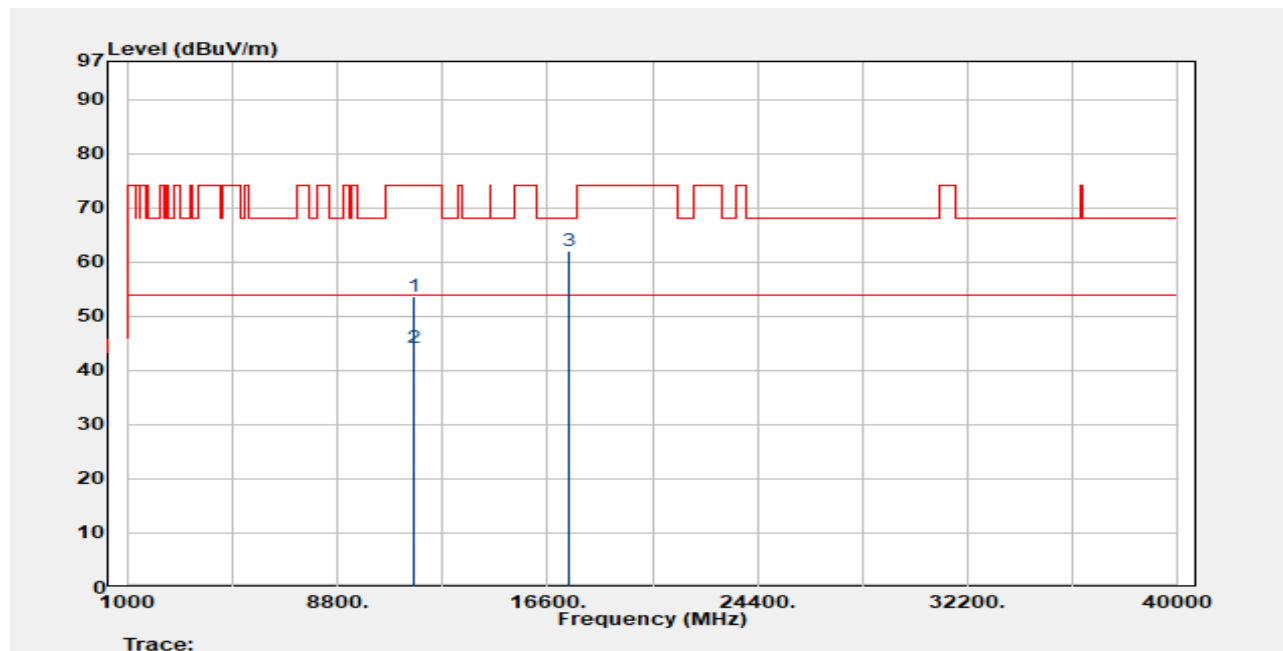
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5795 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11590.000    | Peak                         | 33.12                                   | 20.44        | 53.56                        | 74.00                        | -20.44       |
| 11590.000    | Average                      | 23.76                                   | 20.44        | 44.20                        | 54.00                        | -9.80        |
| 17385.000    | Peak                         | 32.49                                   | 29.63        | 62.12                        | 68.20                        | -6.08        |

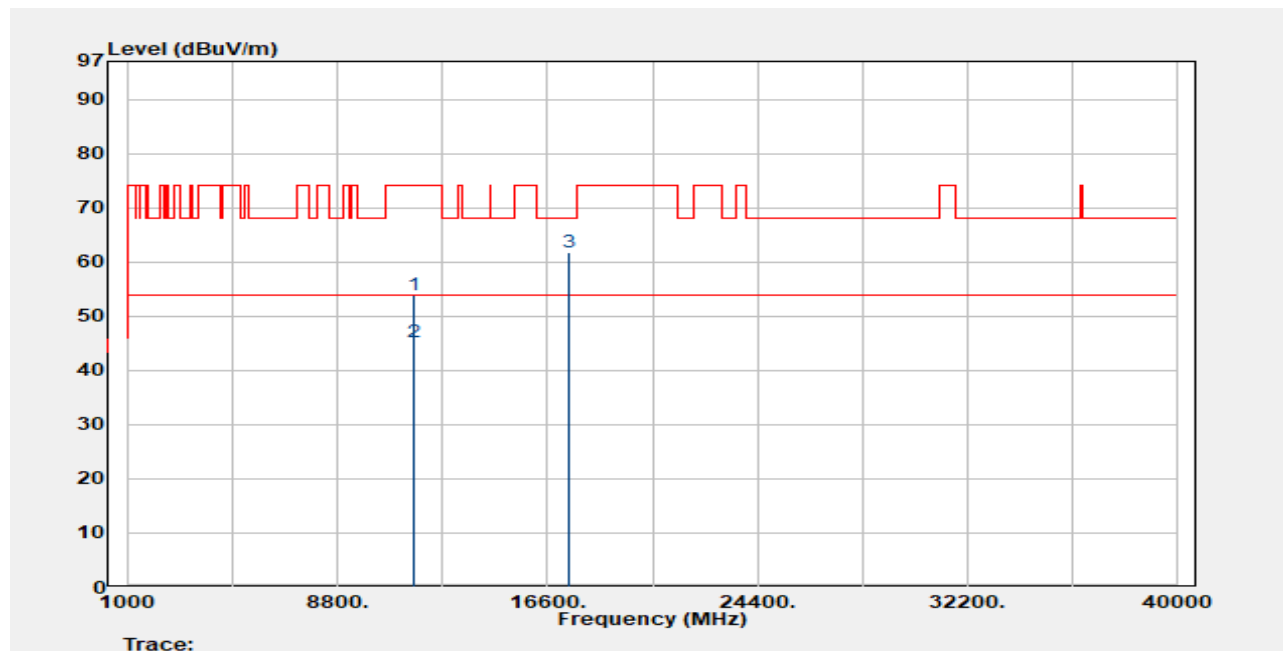
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5795 MHz  
 Test Mode :Tx CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11590.000    | Peak                         | 32.42                                   | 21.57        | 53.99                        | 74.00                        | -20.01       |
| 11590.000    | Average                      | 23.63                                   | 21.57        | 45.20                        | 54.00                        | -8.80        |
| 17385.000    | Peak                         | 32.22                                   | 29.42        | 61.64                        | 68.20                        | -6.56        |

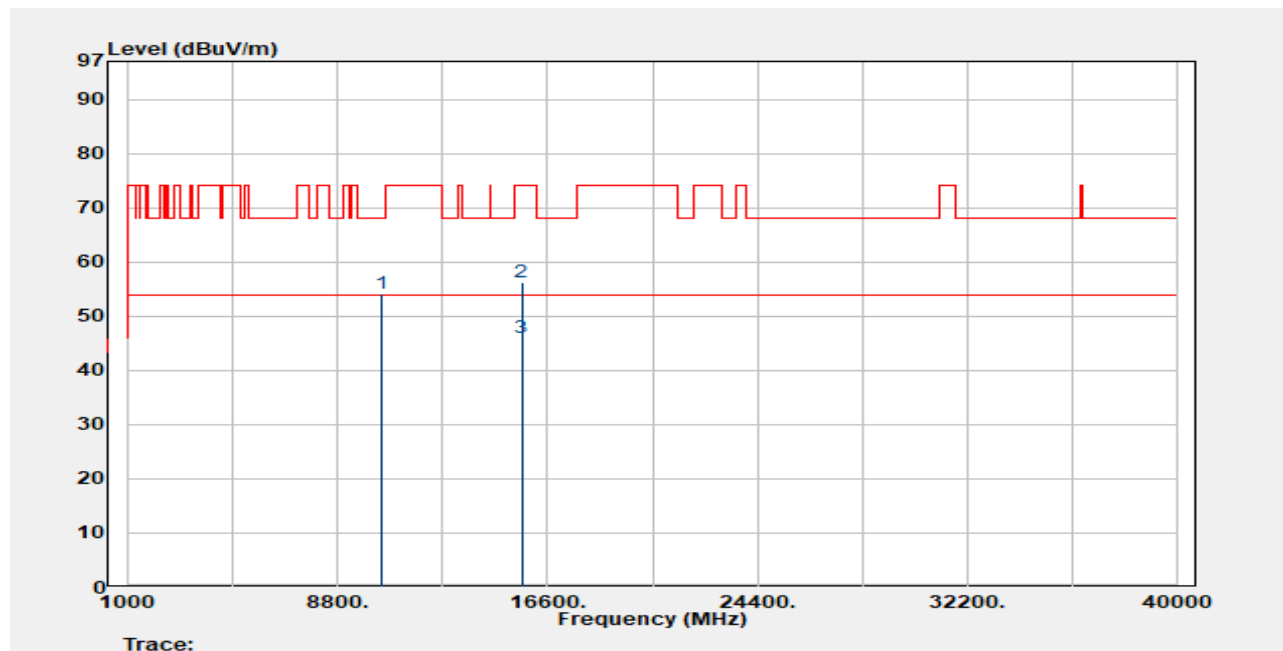
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5210 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10420.000    | Peak                         | 33.96                                   | 20.31        | 54.27                        | 68.20                        | -13.93       |
| 15630.000    | Peak                         | 33.24                                   | 23.00        | 56.25                        | 74.00                        | -17.75       |
| 15630.000    | Average                      | 23.02                                   | 23.00        | 46.02                        | 54.00                        | -7.98        |

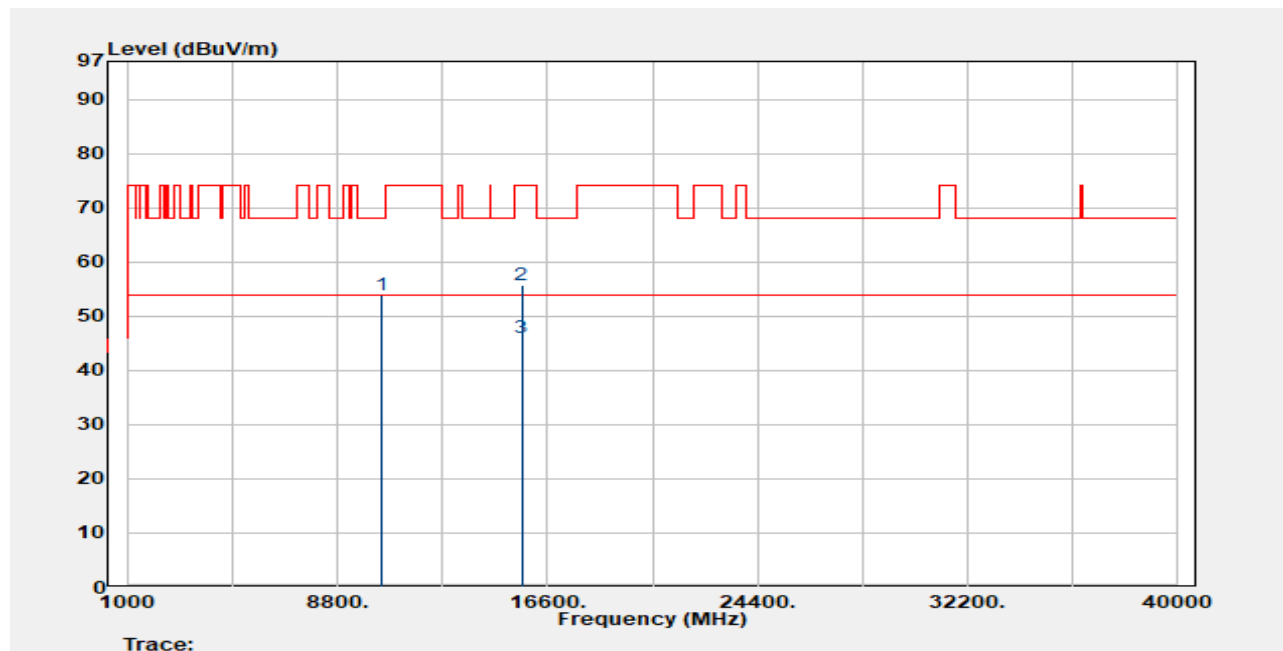
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5210 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10420.000    | Peak                         | 33.57                                   | 20.25        | 53.82                        | 68.20                        | -14.38       |
| 15630.000    | Peak                         | 32.66                                   | 22.96        | 55.62                        | 74.00                        | -18.38       |
| 15630.000    | Average                      | 22.96                                   | 22.96        | 45.92                        | 54.00                        | -8.08        |

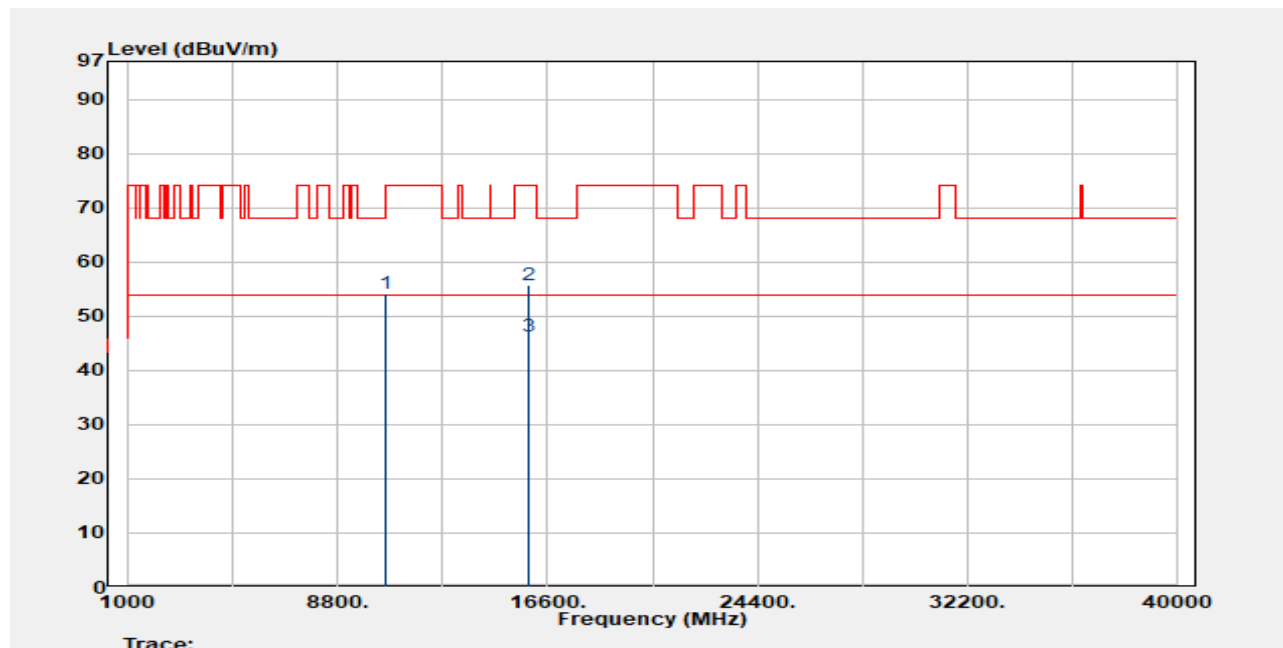
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5290 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10580.000    | Peak                         | 33.28                                   | 20.82        | 54.10                        | 68.20                        | -14.10       |
| 15870.000    | Peak                         | 32.29                                   | 23.32        | 55.60                        | 74.00                        | -18.40       |
| 15870.000    | Average                      | 23.07                                   | 23.32        | 46.39                        | 54.00                        | -7.61        |

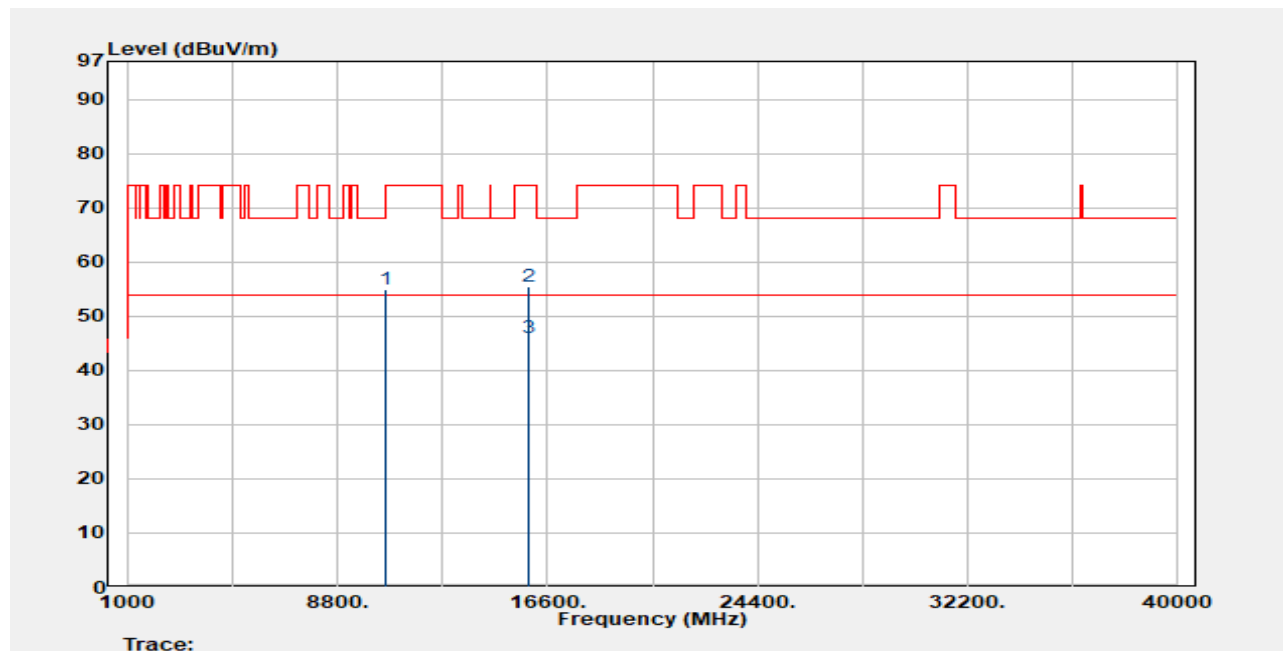
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5290 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 10580.000    | Peak                         | 34.15                                   | 20.69        | 54.85                        | 68.20                        | -13.35       |
| 15870.000    | Peak                         | 32.39                                   | 23.05        | 55.45                        | 74.00                        | -18.55       |
| 15870.000    | Average                      | 23.03                                   | 23.05        | 46.08                        | 54.00                        | -7.92        |

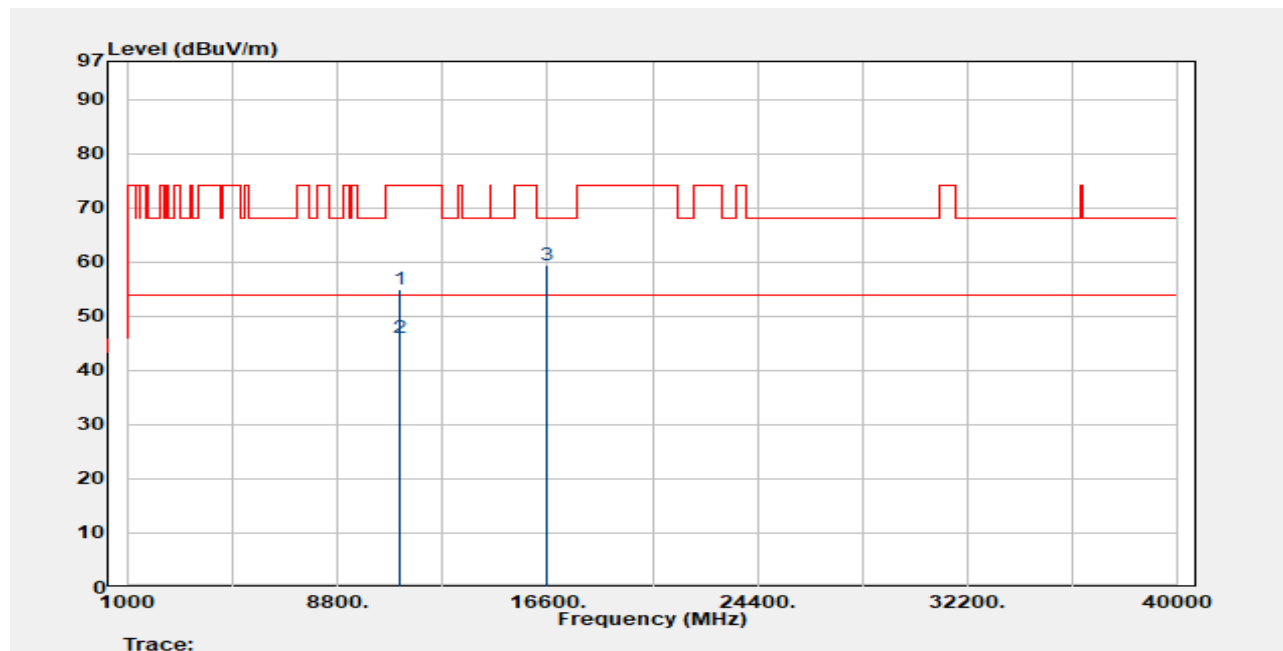
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5530 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11060.000    | Peak                         | 32.48                                   | 22.39        | 54.87                        | 74.00                        | -19.13       |
| 11060.000    | Average                      | 23.72                                   | 22.39        | 46.11                        | 54.00                        | -7.89        |
| 16590.000    | Peak                         | 33.39                                   | 25.91        | 59.30                        | 68.20                        | -8.90        |

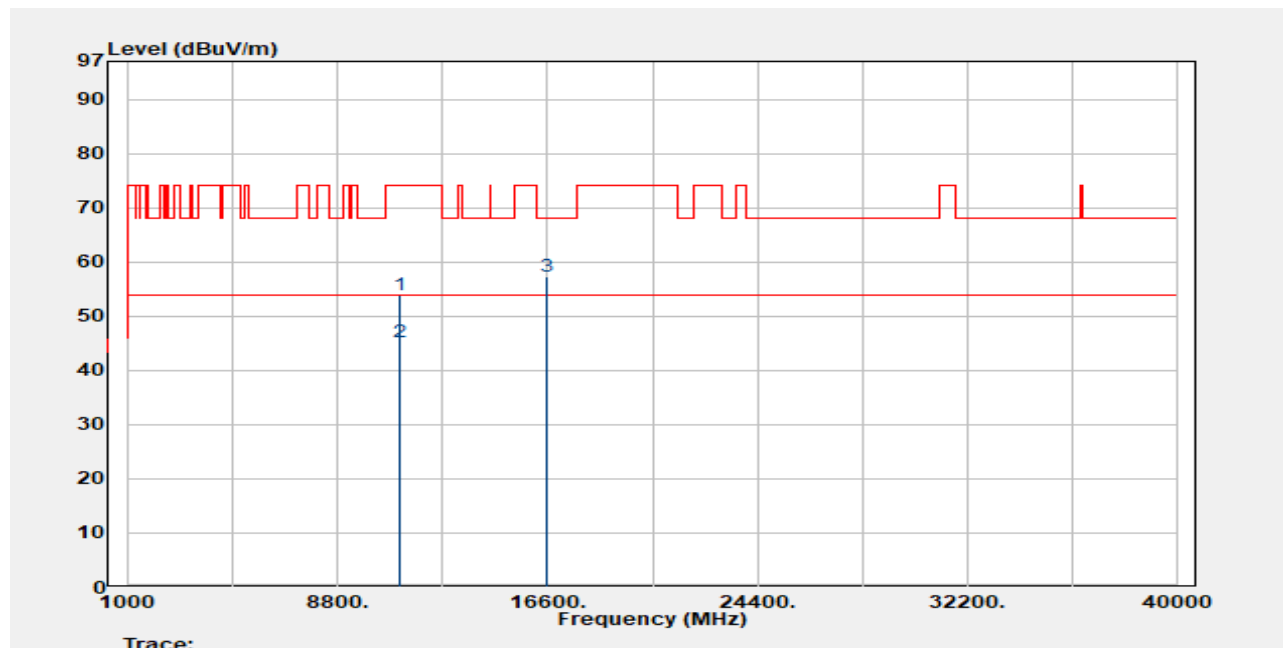
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5530 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11060.000    | Peak                         | 32.13                                   | 21.68        | 53.81                        | 74.00                        | -20.19       |
| 11060.000    | Average                      | 23.53                                   | 21.68        | 45.21                        | 54.00                        | -8.79        |
| 16590.000    | Peak                         | 31.77                                   | 25.64        | 57.41                        | 68.20                        | -10.79       |

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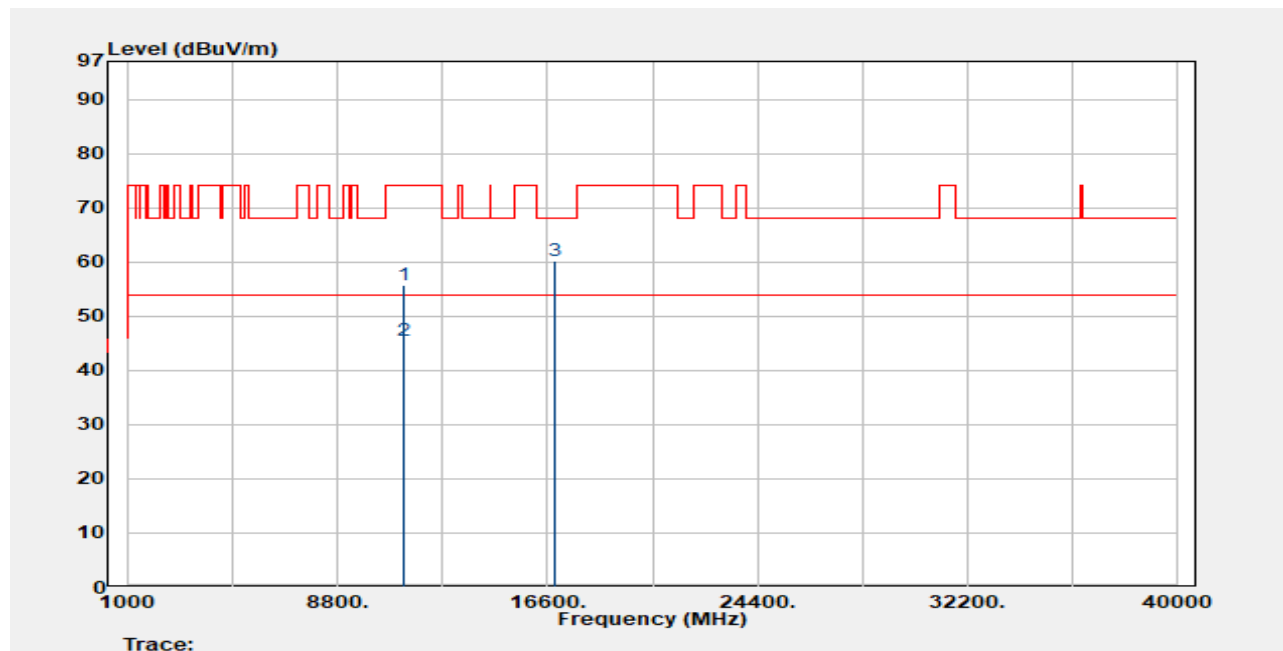
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5610 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11220.000    | Peak                         | 34.01                                   | 21.61        | 55.62                        | 74.00                        | -18.38       |
| 11220.000    | Average                      | 23.86                                   | 21.61        | 45.47                        | 54.00                        | -8.53        |
| 16830.000    | Peak                         | 32.36                                   | 27.76        | 60.12                        | 68.20                        | -8.08        |

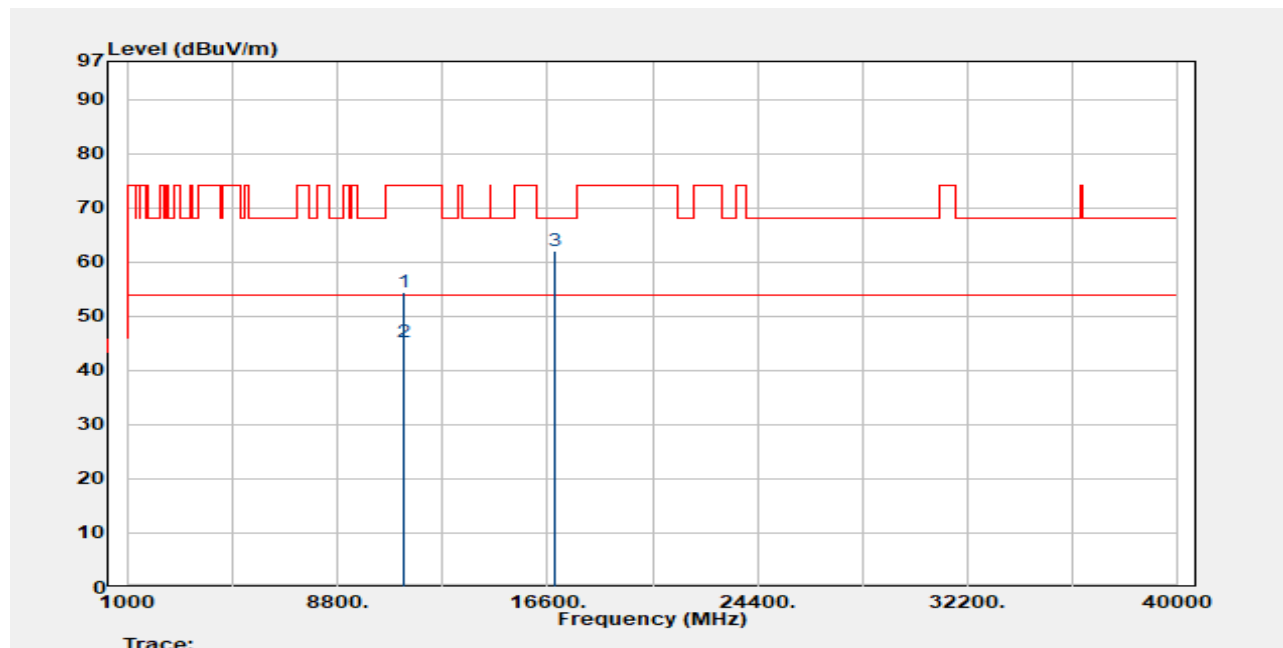
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5610 MHz  
 Test Mode :Tx CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11220.000    | Peak                         | 32.83                                   | 21.57        | 54.40                        | 74.00                        | -19.60       |
| 11220.000    | Average                      | 23.56                                   | 21.57        | 45.13                        | 54.00                        | -8.87        |
| 16830.000    | Peak                         | 34.36                                   | 27.76        | 62.13                        | 68.20                        | -6.07        |

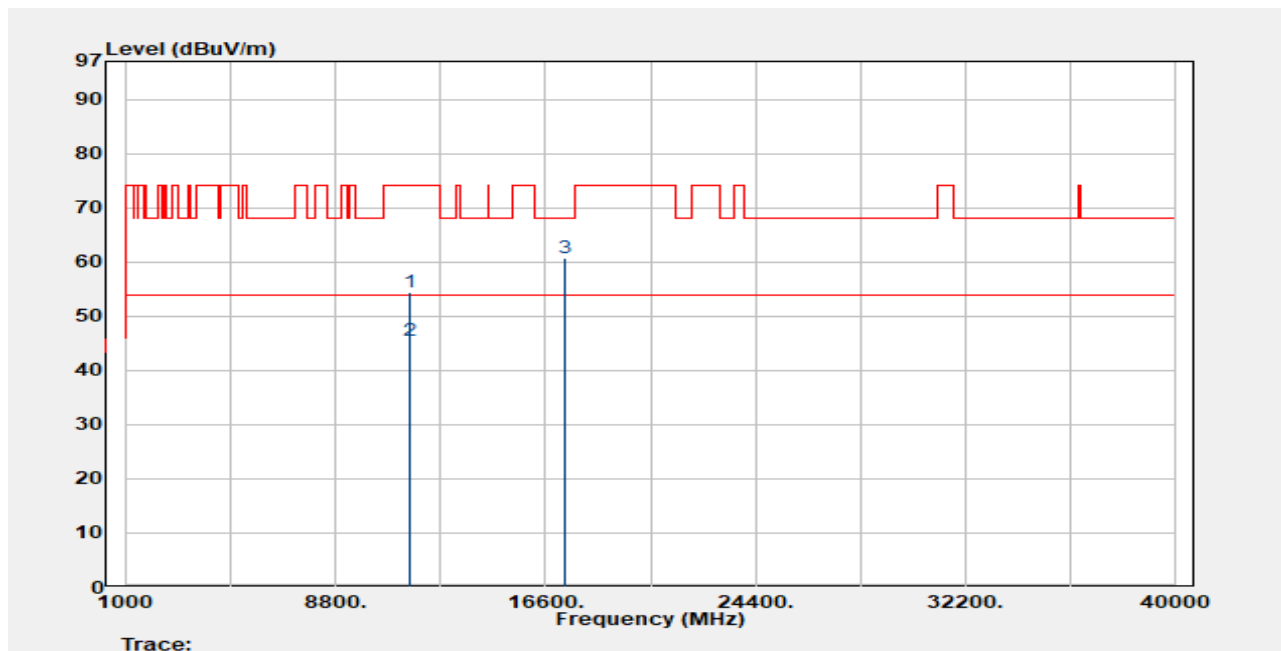
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5775 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11550.000    | Peak                         | 32.57                                   | 21.93        | 54.50                        | 74.00                        | -19.50       |
| 11550.000    | Average                      | 23.47                                   | 21.93        | 45.40                        | 54.00                        | -8.60        |
| 17325.000    | Peak                         | 31.59                                   | 29.10        | 60.69                        | 68.20                        | -7.51        |

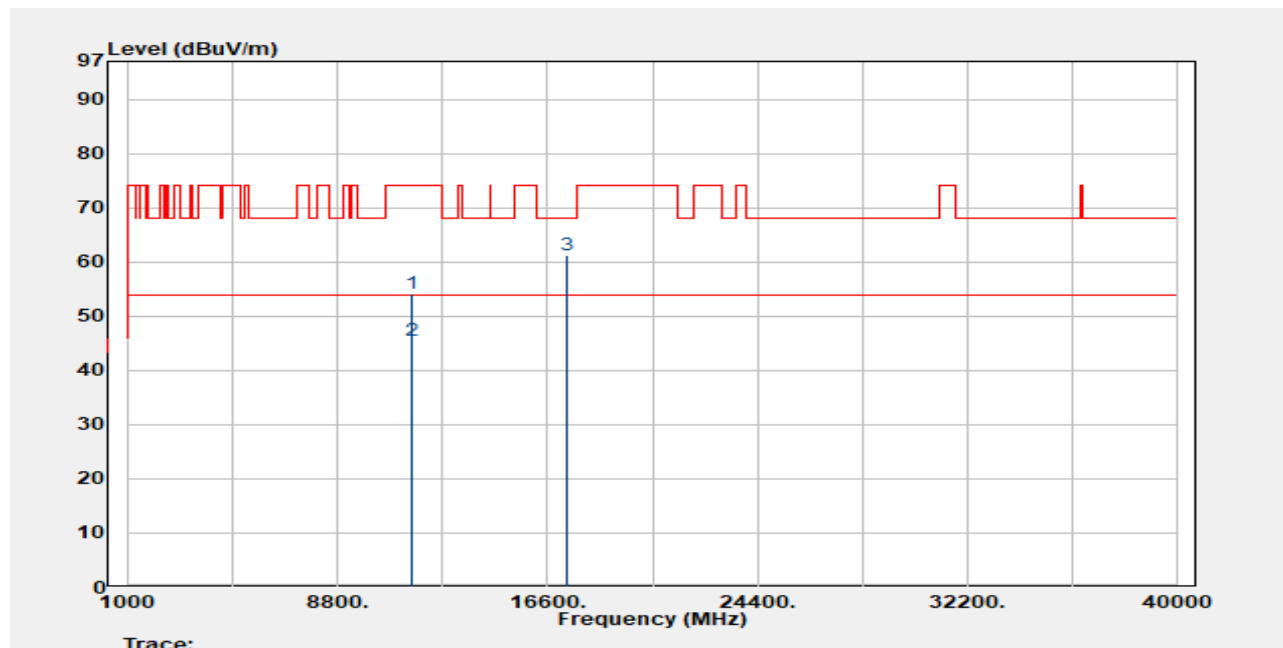
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5775 MHz  
 Test Mode :Tx CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-12-01  
 Temp./Humi. :22.8/45  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 11550.000    | Peak                         | 32.38                                   | 21.87        | 54.25                        | 74.00                        | -19.75       |
| 11550.000    | Average                      | 23.51                                   | 21.87        | 45.38                        | 54.00                        | -8.62        |
| 17325.000    | Peak                         | 32.66                                   | 28.56        | 61.22                        | 68.20                        | -6.98        |

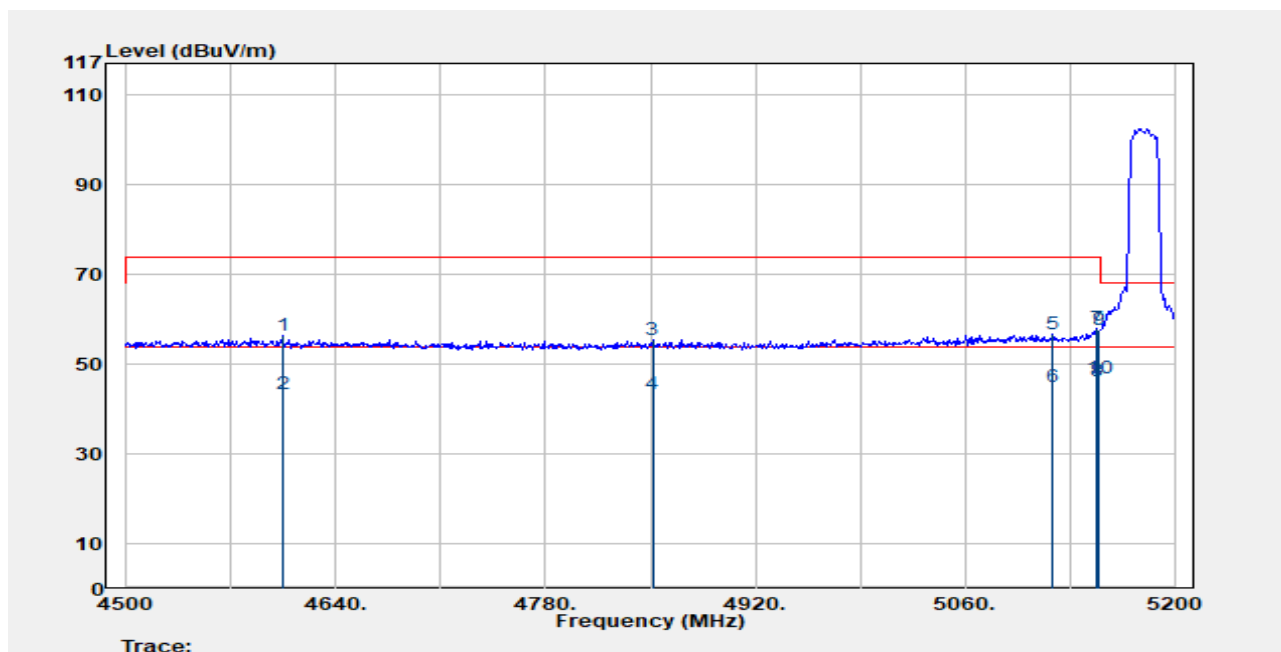
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### 11.6.2 Band edge falling to restricted band

|                |                  |              |             |
|----------------|------------------|--------------|-------------|
| Report Number  | :ER-2021-A0108   | Test Site    | :SAC 3      |
| Operation Mode | :802.11n20       | Test Date    | :2021-11-26 |
| Test Frequency | :5180 MHz        | Temp./Humi.  | :21.5/70    |
| Test Mode      | :Bandedge CH Low | Antenna Pol. | :Vertical   |
| EUT Pol        | :H Plane         | Engineer     | :Jack Liu   |



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBµV | Factor<br>dB | Actual<br>FS<br>dBµV/m | Limit<br>@3m<br>dBµV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4604.300     | Peak                         | 49.41                             | 6.95         | 56.36                  | 74.00                  | -17.64       |
| 4604.300     | Average                      | 36.57                             | 6.95         | 43.52                  | 54.00                  | -10.48       |
| 4851.400     | Peak                         | 48.47                             | 7.10         | 55.57                  | 74.00                  | -18.43       |
| 4851.400     | Average                      | 36.38                             | 7.10         | 43.48                  | 54.00                  | -10.52       |
| 5118.800     | Peak                         | 48.11                             | 8.78         | 56.89                  | 74.00                  | -17.11       |
| 5118.800     | Average                      | 36.18                             | 8.78         | 44.96                  | 54.00                  | -9.04        |
| 5147.500     | Peak                         | 49.21                             | 8.69         | 57.90                  | 74.00                  | -16.10       |
| 5147.500     | Average                      | 37.61                             | 8.69         | 46.30                  | 54.00                  | -7.70        |
| 5150.000     | Peak                         | 48.97                             | 8.68         | 57.65                  | 74.00                  | -16.35       |
| 5150.000     | Average                      | 38.12                             | 8.68         | 46.80                  | 54.00                  | -7.20        |

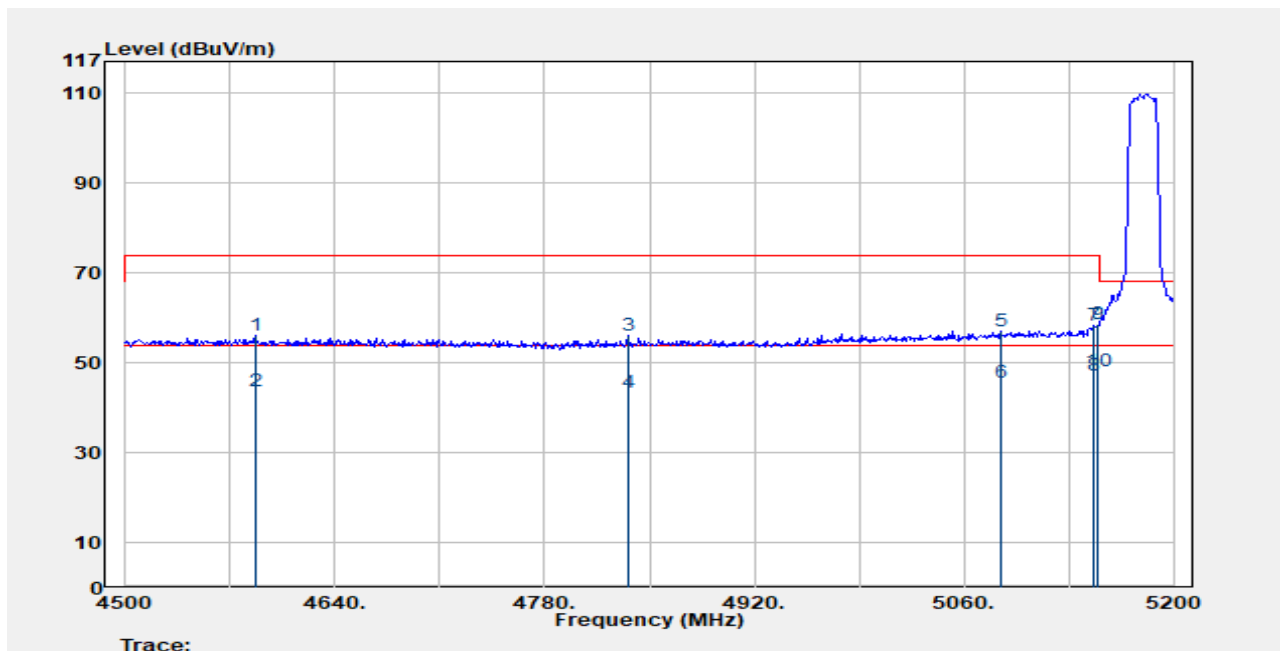
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5180 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|-----------|------------------------|-----------------------------|-----------|------------------|------------------|-----------|
| 4586.800  | Peak                   | 49.05                       | 6.92      | 55.97            | 74.00            | -18.03    |
| 4586.800  | Average                | 36.87                       | 6.92      | 43.79            | 54.00            | -10.21    |
| 4835.300  | Peak                   | 48.95                       | 7.03      | 55.98            | 74.00            | -18.02    |
| 4835.300  | Average                | 36.46                       | 7.03      | 43.49            | 54.00            | -10.51    |
| 5084.500  | Peak                   | 48.47                       | 8.66      | 57.13            | 74.00            | -16.87    |
| 5084.500  | Average                | 36.89                       | 8.66      | 45.55            | 54.00            | -8.45     |
| 5146.800  | Peak                   | 49.69                       | 8.69      | 58.39            | 74.00            | -15.61    |
| 5146.800  | Average                | 38.52                       | 8.69      | 47.21            | 54.00            | -6.79     |
| 5150.000  | Peak                   | 49.94                       | 8.68      | 58.62            | 74.00            | -15.38    |
| 5150.000  | Average                | 39.61                       | 8.68      | 48.29            | 54.00            | -5.71     |

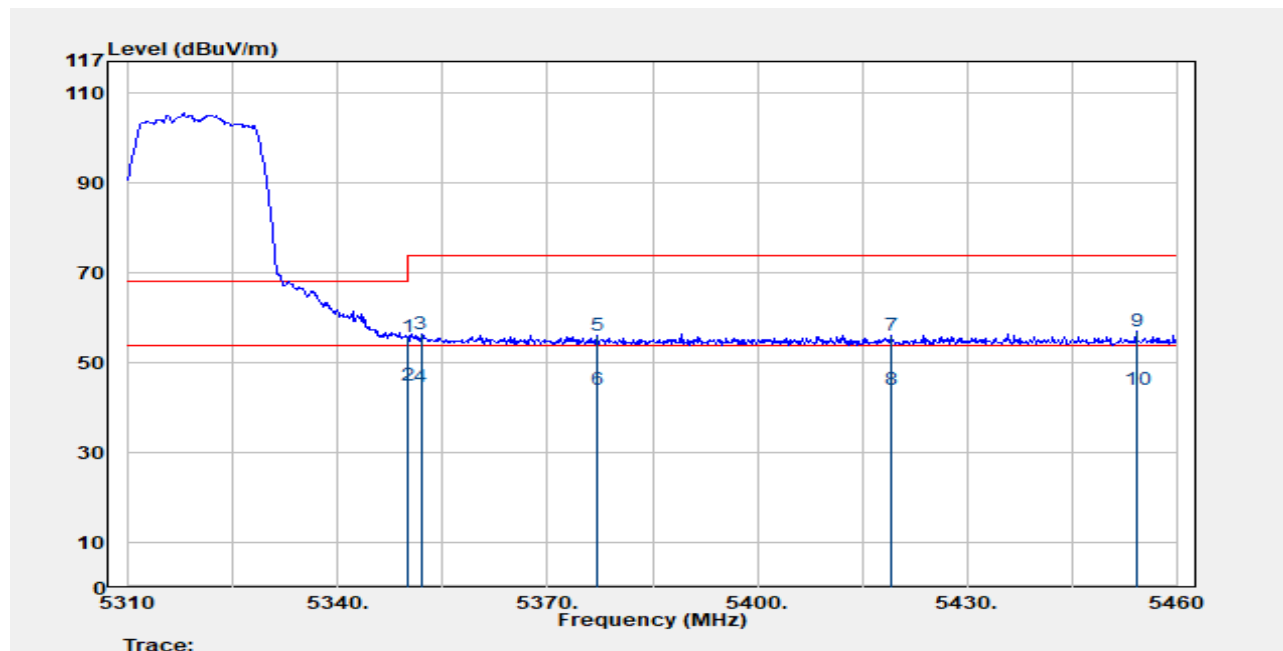
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5320 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>d $\mu$ V | Factor<br>dB | Actual<br>FS<br>d $\mu$ V/m | Limit<br>@3m<br>d $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 5350.000     | Peak                         | 47.69                                  | 8.12         | 55.81                       | 74.00                       | -18.19       |
| 5350.000     | Average                      | 36.78                                  | 8.12         | 44.90                       | 54.00                       | -9.10        |
| 5351.850     | Peak                         | 48.40                                  | 8.12         | 56.52                       | 74.00                       | -17.48       |
| 5351.850     | Average                      | 36.65                                  | 8.12         | 44.77                       | 54.00                       | -9.23        |
| 5377.200     | Peak                         | 47.96                                  | 8.13         | 56.09                       | 74.00                       | -17.91       |
| 5377.200     | Average                      | 35.89                                  | 8.13         | 44.02                       | 54.00                       | -9.98        |
| 5419.050     | Peak                         | 48.13                                  | 8.10         | 56.24                       | 74.00                       | -17.76       |
| 5419.050     | Average                      | 35.93                                  | 8.10         | 44.03                       | 54.00                       | -9.97        |
| 5454.300     | Peak                         | 48.93                                  | 8.07         | 57.00                       | 74.00                       | -17.00       |
| 5454.300     | Average                      | 36.03                                  | 8.07         | 44.10                       | 54.00                       | -9.90        |

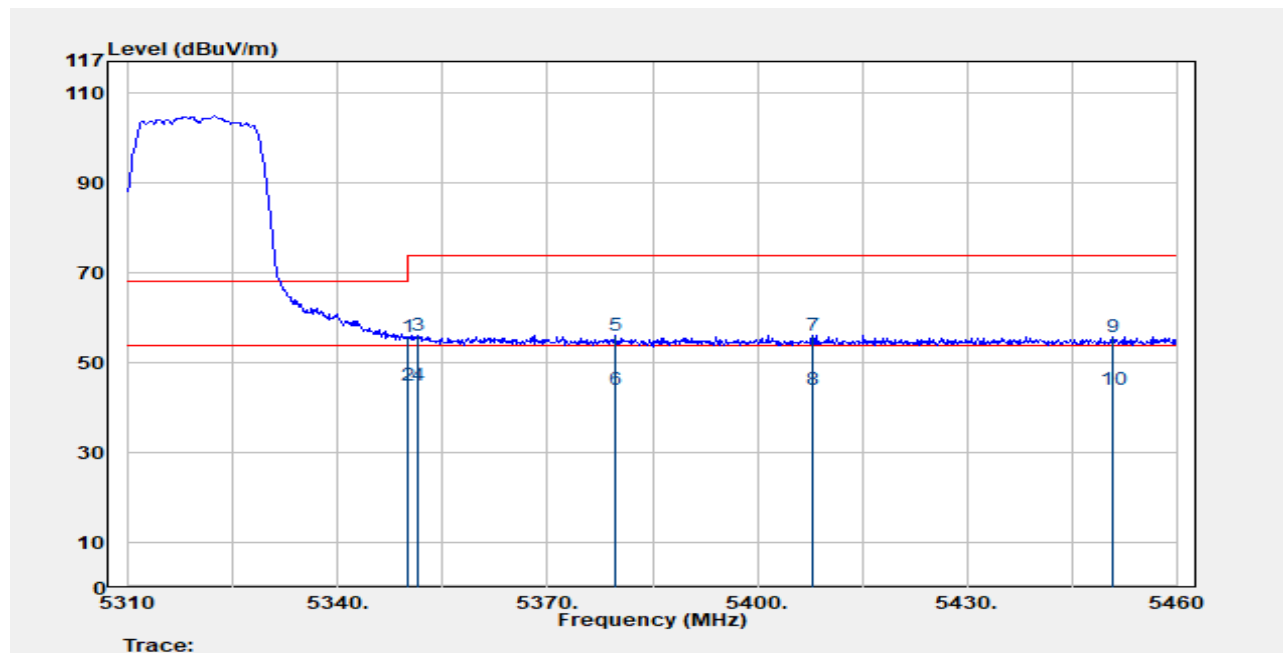
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5320 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|-----------|------------------------|-----------------------------|-----------|------------------|------------------|-----------|
| 5350.000  | Peak                   | 47.58                       | 8.12      | 55.71            | 74.00            | -18.29    |
| 5350.000  | Average                | 36.97                       | 8.12      | 45.09            | 54.00            | -8.91     |
| 5351.400  | Peak                   | 48.02                       | 8.12      | 56.15            | 74.00            | -17.85    |
| 5351.400  | Average                | 36.87                       | 8.12      | 44.99            | 54.00            | -9.01     |
| 5379.750  | Peak                   | 48.01                       | 8.13      | 56.14            | 74.00            | -17.86    |
| 5379.750  | Average                | 36.09                       | 8.13      | 44.22            | 54.00            | -9.78     |
| 5407.950  | Peak                   | 47.99                       | 8.12      | 56.10            | 74.00            | -17.90    |
| 5407.950  | Average                | 35.99                       | 8.12      | 44.11            | 54.00            | -9.89     |
| 5450.850  | Peak                   | 47.76                       | 8.06      | 55.82            | 74.00            | -18.18    |
| 5450.850  | Average                | 36.01                       | 8.06      | 44.07            | 54.00            | -9.93     |

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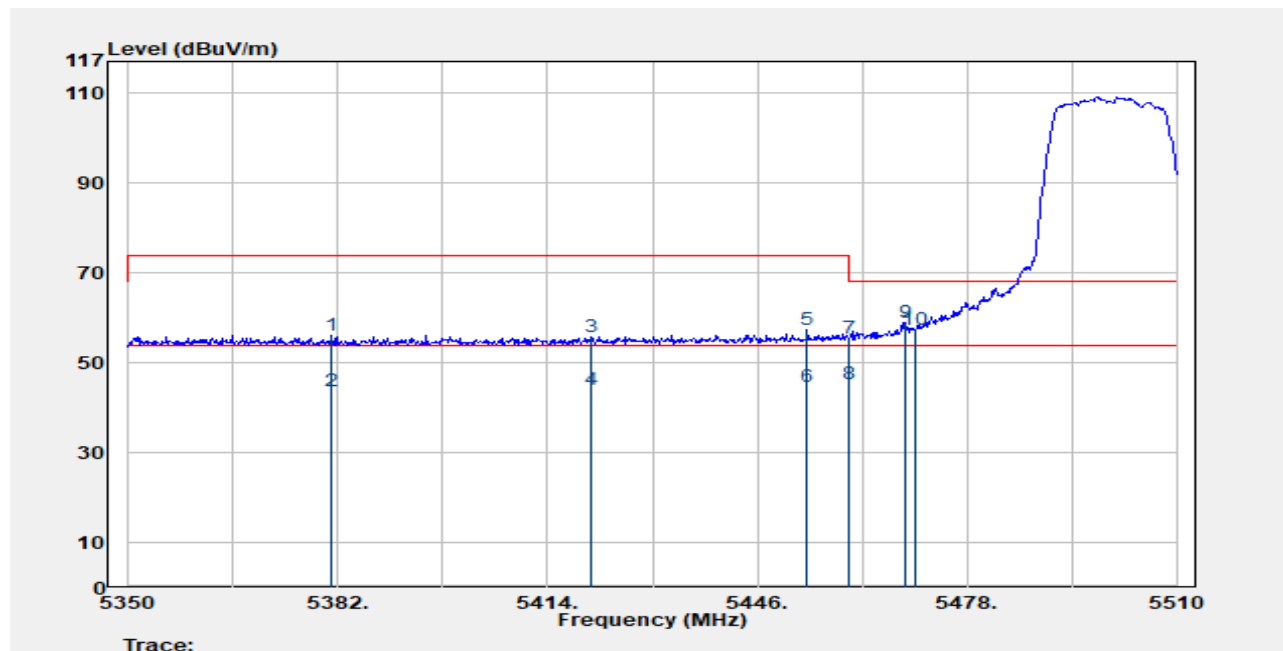
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5500 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 5381.040     | Peak                         | 48.08                                   | 8.13         | 56.20                        | 74.00                        | -17.80       |
| 5381.040     | Average                      | 35.78                                   | 8.13         | 43.91                        | 54.00                        | -10.09       |
| 5420.560     | Peak                         | 47.84                                   | 8.10         | 55.94                        | 74.00                        | -18.06       |
| 5420.560     | Average                      | 36.07                                   | 8.10         | 44.17                        | 54.00                        | -9.83        |
| 5453.680     | Peak                         | 49.18                                   | 8.07         | 57.25                        | 74.00                        | -16.75       |
| 5453.680     | Average                      | 36.75                                   | 8.07         | 44.82                        | 54.00                        | -9.18        |
| 5460.000     | Peak                         | 47.49                                   | 8.07         | 55.56                        | 74.00                        | -18.44       |
| 5460.000     | Average                      | 37.19                                   | 8.07         | 45.26                        | 54.00                        | -8.74        |
| 5468.720     | Peak                         | 50.85                                   | 8.08         | 58.93                        | 68.20                        | -9.27        |
| 5470.000     | Peak                         | 49.25                                   | 8.08         | 57.33                        | 68.20                        | -10.87       |

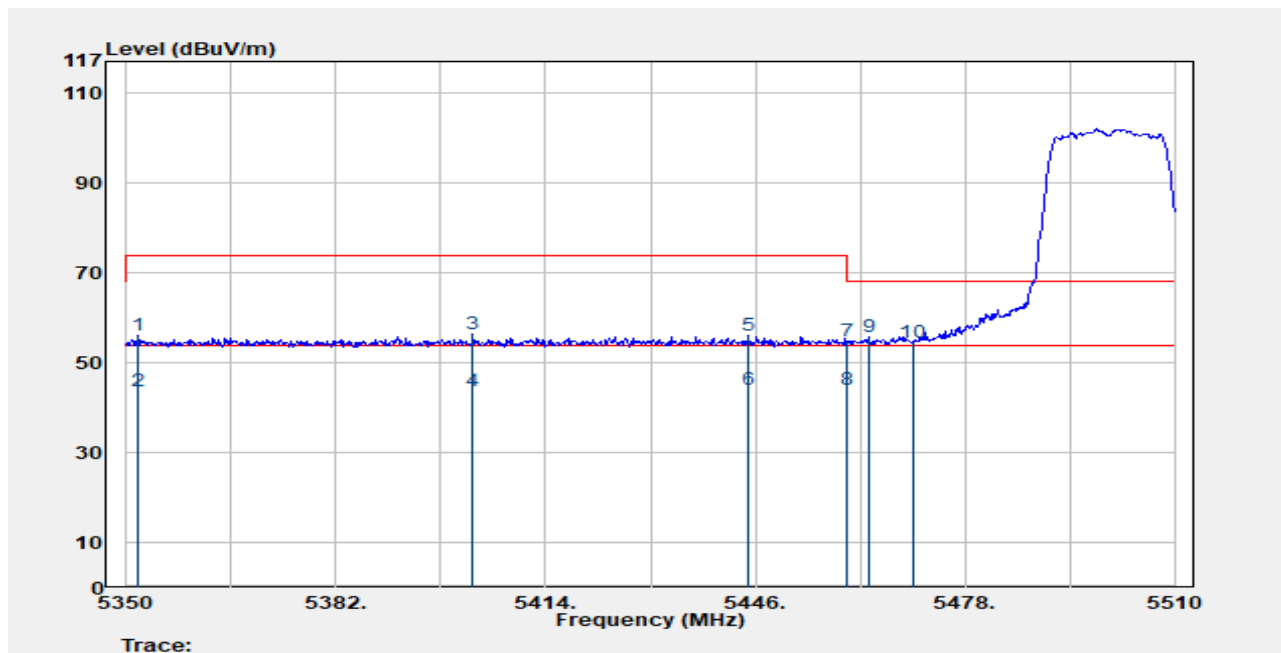
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5500 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|-----------|------------------------|-----------------------------|-----------|------------------|------------------|-----------|
| 5351.600  | Peak                   | 47.89                       | 8.12      | 56.02            | 74.00            | -17.98    |
| 5351.600  | Average                | 35.65                       | 8.12      | 43.77            | 54.00            | -10.23    |
| 5402.800  | Peak                   | 48.25                       | 8.12      | 56.37            | 74.00            | -17.63    |
| 5402.800  | Average                | 35.72                       | 8.12      | 43.84            | 54.00            | -10.16    |
| 5445.040  | Peak                   | 48.01                       | 8.07      | 56.08            | 74.00            | -17.92    |
| 5445.040  | Average                | 35.98                       | 8.07      | 44.05            | 54.00            | -9.95     |
| 5460.000  | Peak                   | 46.87                       | 8.07      | 54.94            | 74.00            | -19.06    |
| 5460.000  | Average                | 36.11                       | 8.07      | 44.18            | 54.00            | -9.82     |
| 5463.280  | Peak                   | 47.83                       | 8.07      | 55.91            | 68.20            | -12.29    |
| 5470.000  | Peak                   | 46.40                       | 8.08      | 54.48            | 68.20            | -13.72    |

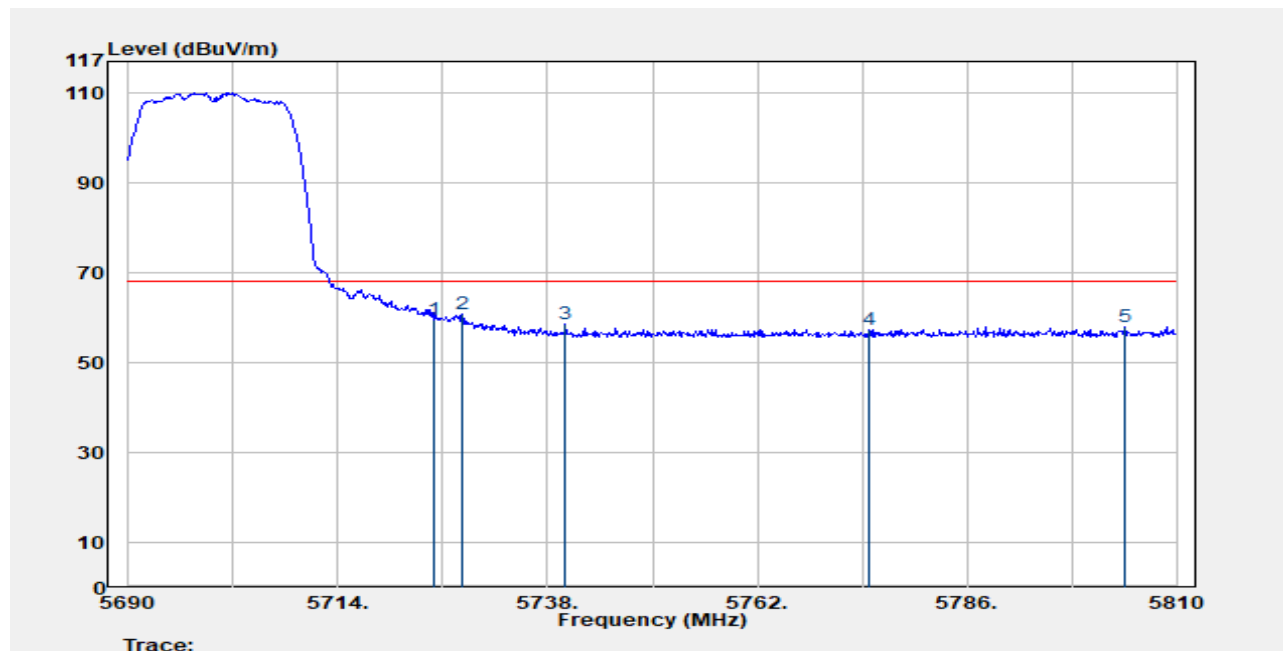
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5700 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>d $\mu$ V | Factor<br>dB | Actual<br>FS<br>d $\mu$ V/m | Limit<br>@3m<br>d $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 5725.000     | Peak                         | 50.88                                  | 8.81         | 59.69                       | 68.20                       | -8.51        |
| 5728.160     | Peak                         | 51.94                                  | 8.82         | 60.76                       | 68.20                       | -7.44        |
| 5740.040     | Peak                         | 49.75                                  | 8.88         | 58.63                       | 68.20                       | -9.57        |
| 5774.720     | Peak                         | 48.36                                  | 9.10         | 57.46                       | 68.20                       | -10.74       |
| 5804.120     | Peak                         | 48.87                                  | 9.28         | 58.15                       | 68.20                       | -10.05       |

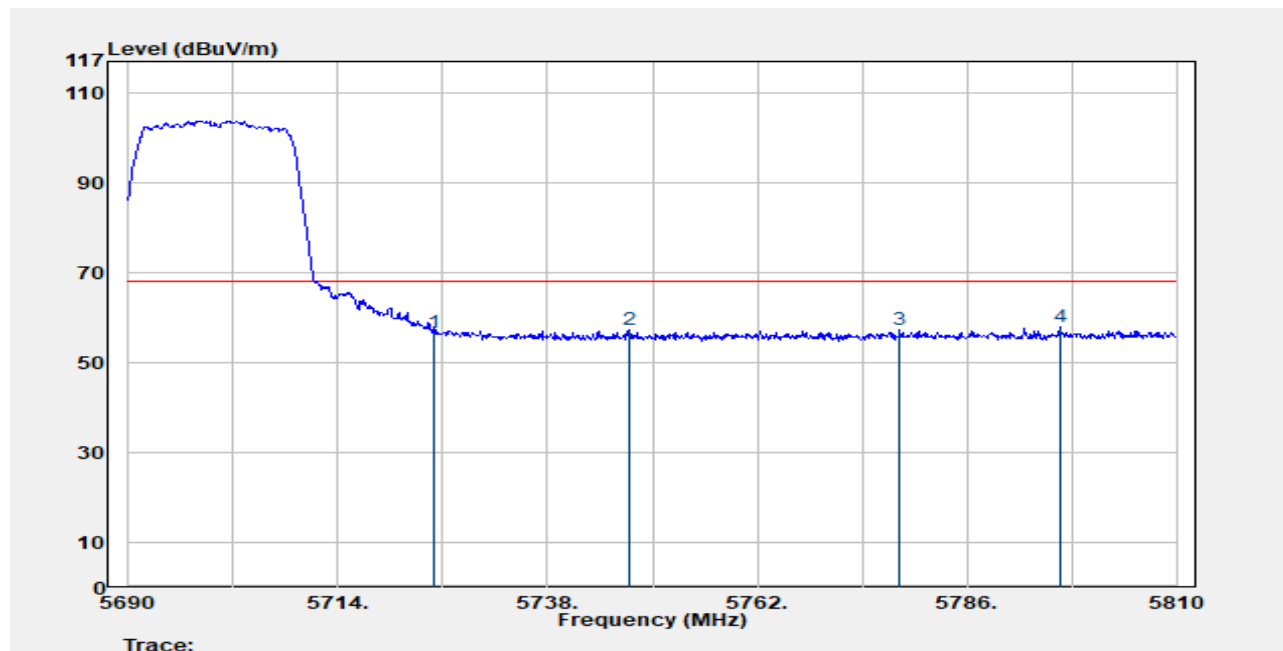
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5700 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 5725.000     | Peak                         | 48.05                                   | 8.81         | 56.86                        | 68.20                        | -11.34       |
| 5747.360     | Peak                         | 48.36                                   | 8.92         | 57.28                        | 68.20                        | -10.92       |
| 5778.320     | Peak                         | 48.13                                   | 9.12         | 57.25                        | 68.20                        | -10.95       |
| 5796.680     | Peak                         | 48.74                                   | 9.24         | 57.98                        | 68.20                        | -10.22       |

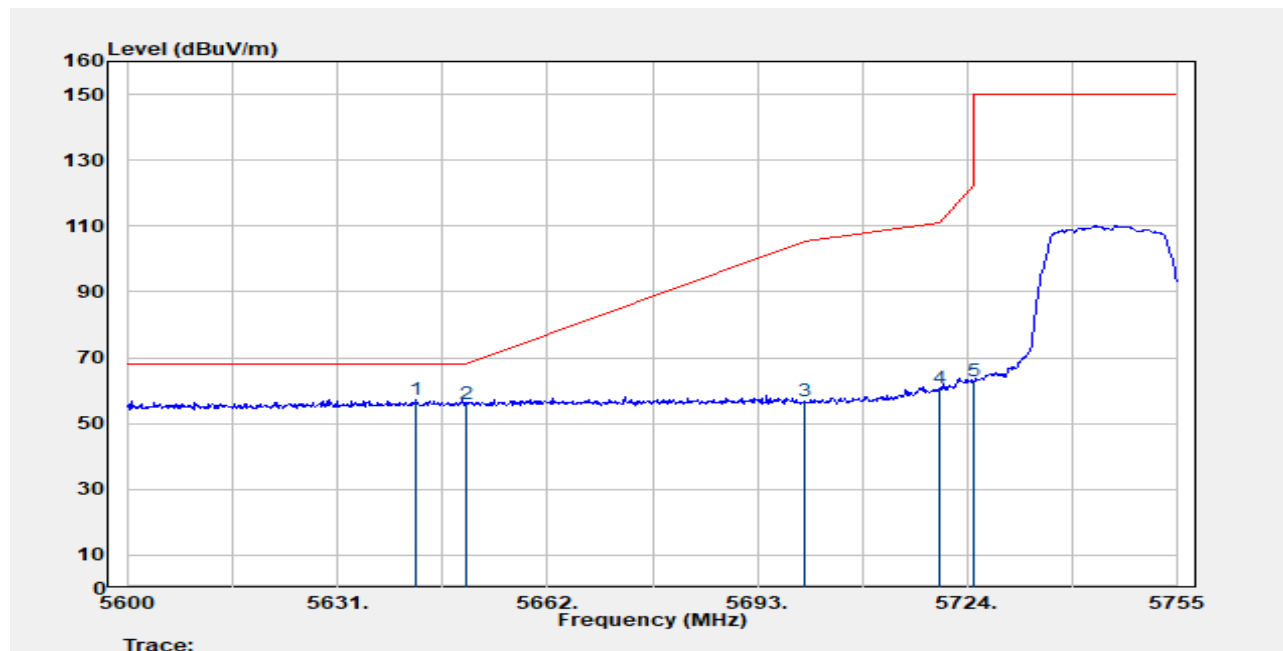
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5745 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB $\mu$ V | Factor dB | Actual FS dB $\mu$ V/m | Limit @3m dB $\mu$ V/m | Margin dB |
|-----------|------------------------|-----------------------------------|-----------|------------------------|------------------------|-----------|
| 5642.470  | Peak                   | 48.90                             | 8.30      | 57.20                  | 68.20                  | -11.00    |
| 5650.000  | Peak                   | 47.56                             | 8.32      | 55.88                  | 68.20                  | -12.32    |
| 5700.000  | Peak                   | 48.09                             | 8.69      | 56.78                  | 105.20                 | -48.42    |
| 5720.000  | Peak                   | 51.98                             | 8.79      | 60.77                  | 110.80                 | -50.03    |
| 5725.000  | Peak                   | 54.27                             | 8.81      | 63.08                  | 122.20                 | -59.12    |

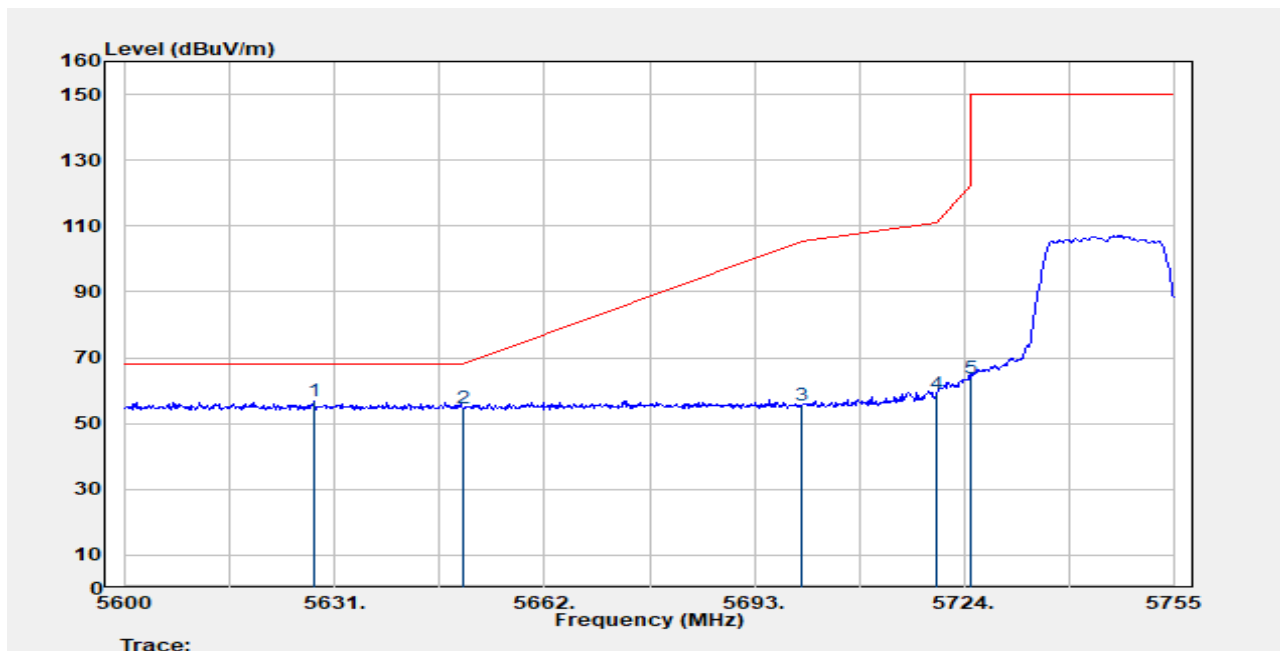
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5745 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5627.900     | Peak                         | 48.44                             | 8.25         | 56.69                  | 68.20                  | -11.51       |
| 5650.000     | Peak                         | 46.34                             | 8.32         | 54.66                  | 68.20                  | -13.54       |
| 5700.000     | Peak                         | 46.68                             | 8.69         | 55.37                  | 105.20                 | -49.83       |
| 5720.000     | Peak                         | 50.40                             | 8.79         | 59.18                  | 110.80                 | -51.62       |
| 5725.000     | Peak                         | 54.73                             | 8.81         | 63.53                  | 122.20                 | -58.67       |

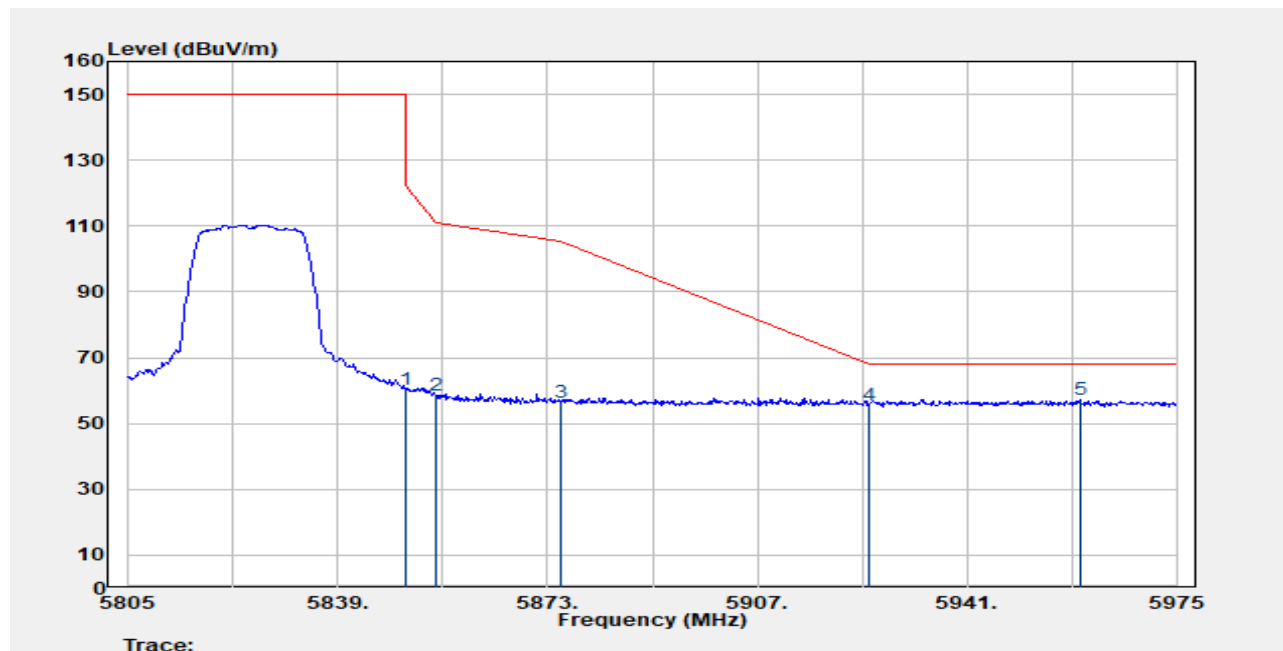
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5825 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5850.000     | Peak                         | 51.00                             | 9.42         | 60.42                  | 122.20                 | -61.78       |
| 5855.000     | Peak                         | 48.95                             | 9.44         | 58.38                  | 110.80                 | -52.42       |
| 5875.000     | Peak                         | 46.82                             | 9.50         | 56.32                  | 105.20                 | -48.88       |
| 5925.000     | Peak                         | 46.02                             | 9.65         | 55.67                  | 68.20                  | -12.53       |
| 5959.360     | Peak                         | 47.60                             | 9.70         | 57.31                  | 68.20                  | -10.89       |

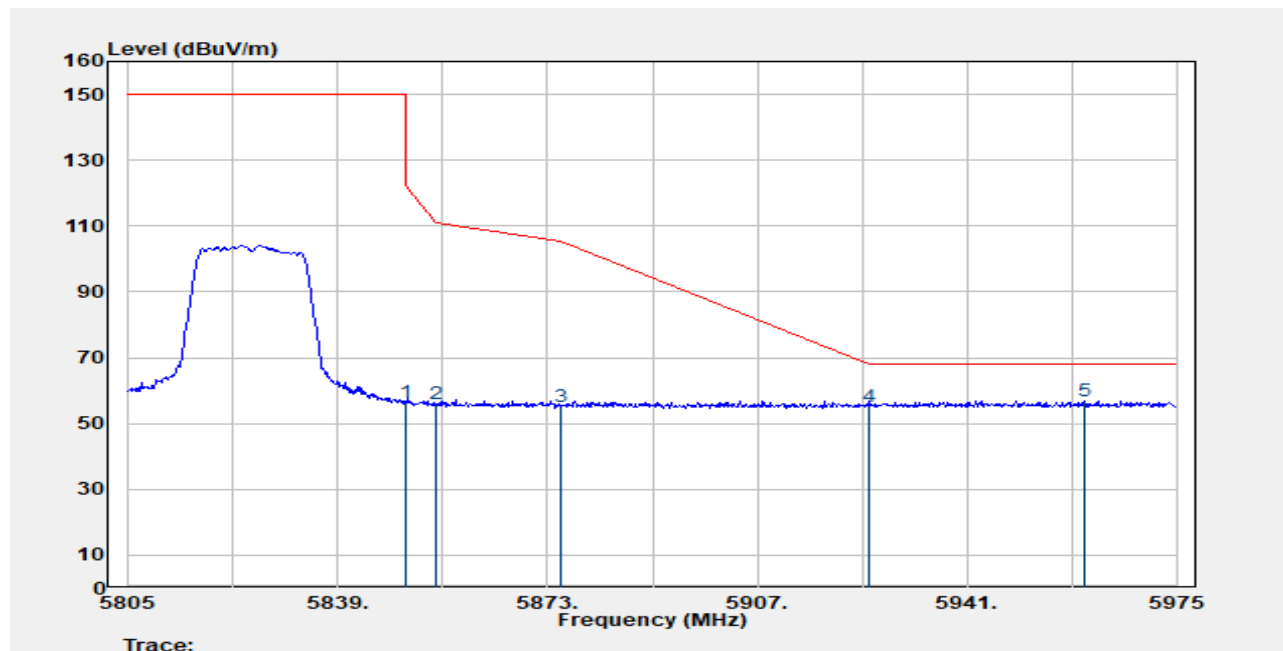
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n20  
 Test Frequency :5825 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 5850.000     | Peak                         | 46.96                                   | 9.42         | 56.38                        | 122.20                       | -65.82       |
| 5855.000     | Peak                         | 46.66                                   | 9.44         | 56.10                        | 110.80                       | -54.70       |
| 5875.000     | Peak                         | 45.62                                   | 9.50         | 55.12                        | 105.20                       | -50.08       |
| 5925.000     | Peak                         | 45.36                                   | 9.65         | 55.01                        | 68.20                        | -13.19       |
| 5960.040     | Peak                         | 47.30                                   | 9.70         | 57.00                        | 68.20                        | -11.20       |

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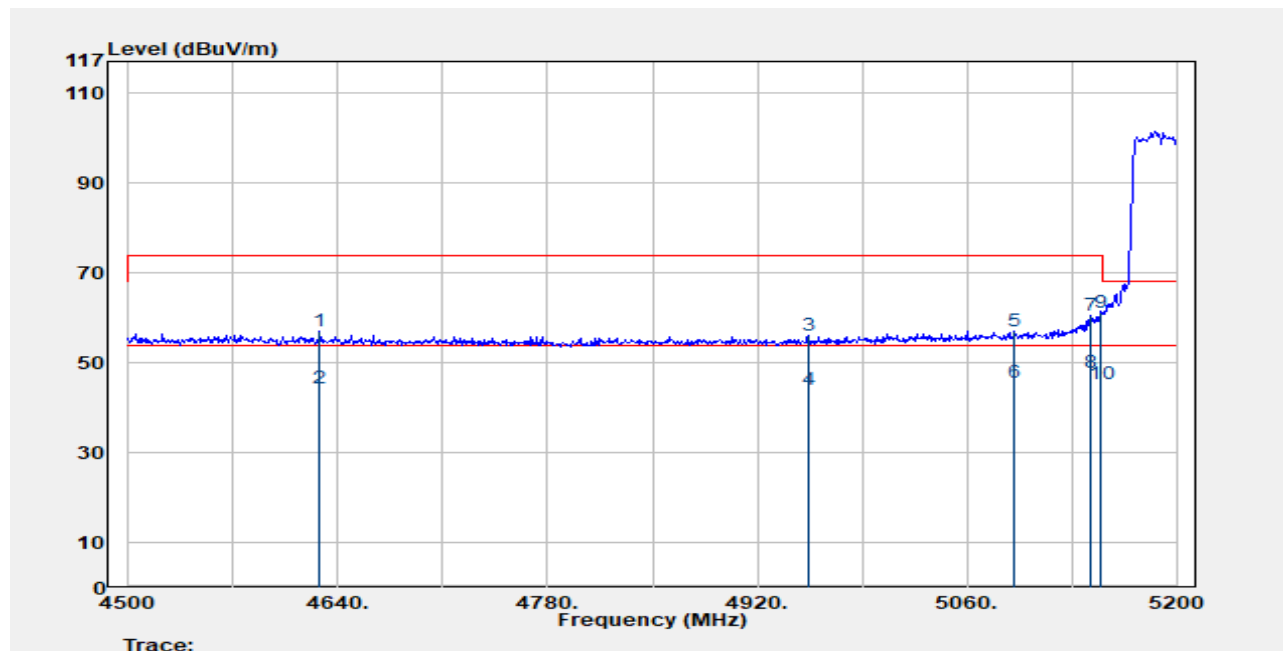
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5190 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level d $\mu$ V | Factor dB | Actual FS d $\mu$ V/m | Limit @3m d $\mu$ V/m | Margin dB |
|-----------|------------------------|----------------------------------|-----------|-----------------------|-----------------------|-----------|
| 4627.400  | Peak                   | 50.21                            | 7.02      | 57.22                 | 74.00                 | -16.78    |
| 4627.400  | Average                | 37.38                            | 7.02      | 44.40                 | 54.00                 | -9.60     |
| 4954.300  | Peak                   | 48.46                            | 7.66      | 56.12                 | 74.00                 | -17.88    |
| 4954.300  | Average                | 36.54                            | 7.66      | 44.20                 | 54.00                 | -9.80     |
| 5092.200  | Peak                   | 48.27                            | 8.75      | 57.01                 | 74.00                 | -16.99    |
| 5092.200  | Average                | 36.79                            | 8.75      | 45.54                 | 54.00                 | -8.46     |
| 5143.300  | Peak                   | 51.72                            | 8.70      | 60.43                 | 74.00                 | -13.57    |
| 5143.300  | Average                | 39.19                            | 8.70      | 47.89                 | 54.00                 | -6.11     |
| 5150.000  | Peak                   | 52.61                            | 8.68      | 61.30                 | 74.00                 | -12.70    |
| 5150.000  | Average                | 36.57                            | 8.68      | 45.25                 | 54.00                 | -8.75     |

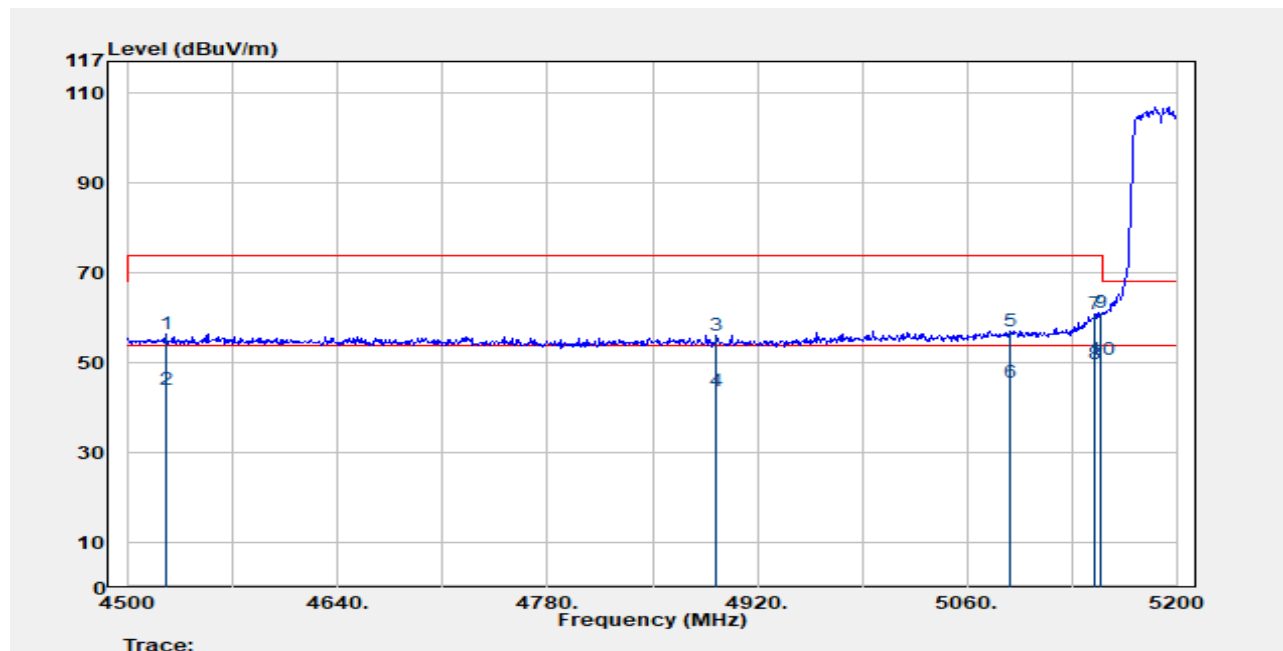
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5190 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4524.500     | Peak                         | 49.64                             | 6.90         | 56.54                  | 74.00                  | -17.46       |
| 4524.500     | Average                      | 37.02                             | 6.90         | 43.92                  | 54.00                  | -10.08       |
| 4892.700     | Peak                         | 48.97                             | 7.29         | 56.26                  | 74.00                  | -17.74       |
| 4892.700     | Average                      | 36.49                             | 7.29         | 43.78                  | 54.00                  | -10.22       |
| 5088.700     | Peak                         | 48.46                             | 8.71         | 57.17                  | 74.00                  | -16.83       |
| 5088.700     | Average                      | 36.96                             | 8.71         | 45.67                  | 54.00                  | -8.33        |
| 5145.400     | Peak                         | 52.22                             | 8.70         | 60.92                  | 74.00                  | -13.08       |
| 5145.400     | Average                      | 41.12                             | 8.70         | 49.82                  | 54.00                  | -4.18        |
| 5150.000     | Peak                         | 52.42                             | 8.68         | 61.10                  | 74.00                  | -12.90       |
| 5150.000     | Average                      | 42.05                             | 8.68         | 50.73                  | 54.00                  | -3.27        |

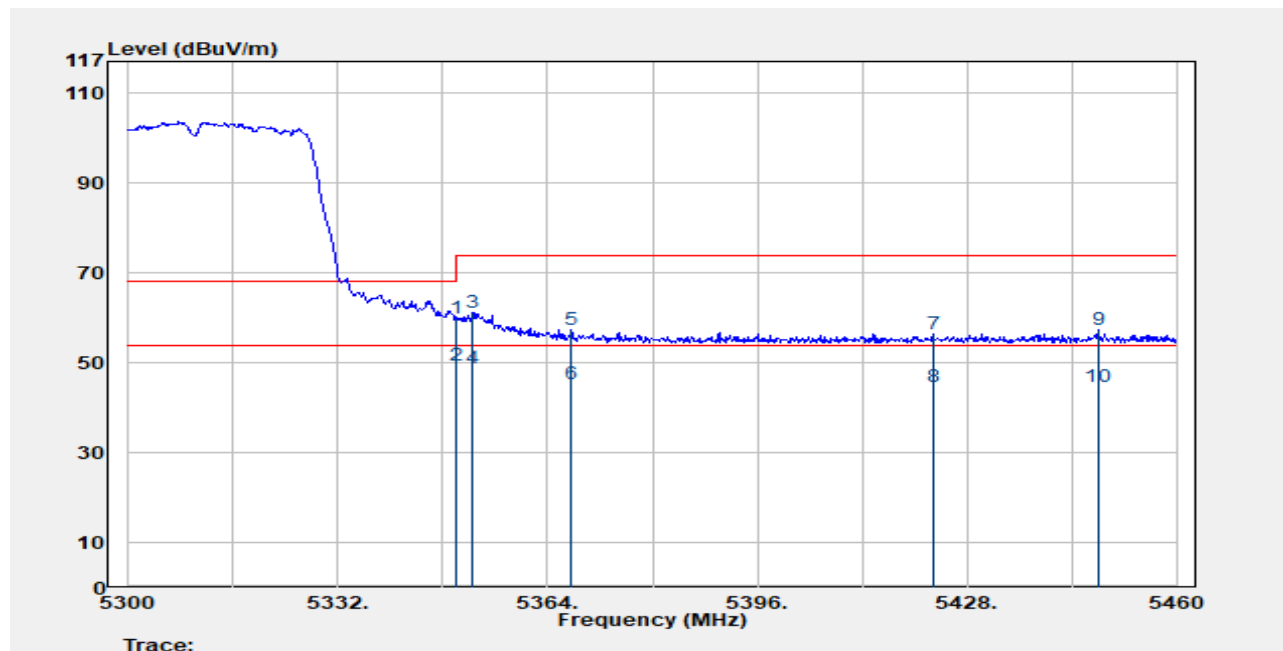
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5310 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|-----------|------------------------|-----------------------------|-----------|------------------|------------------|-----------|
| 5350.000  | Peak                   | 51.91                       | 8.12      | 60.03            | 74.00            | -13.97    |
| 5350.000  | Average                | 41.37                       | 8.12      | 49.49            | 54.00            | -4.51     |
| 5352.480  | Peak                   | 53.19                       | 8.12      | 61.32            | 74.00            | -12.68    |
| 5352.480  | Average                | 40.66                       | 8.12      | 48.78            | 54.00            | -5.22     |
| 5367.680  | Peak                   | 49.13                       | 8.13      | 57.26            | 74.00            | -16.74    |
| 5367.680  | Average                | 37.35                       | 8.13      | 45.48            | 54.00            | -8.52     |
| 5422.880  | Peak                   | 48.42                       | 8.10      | 56.52            | 74.00            | -17.48    |
| 5422.880  | Average                | 36.63                       | 8.10      | 44.73            | 54.00            | -9.27     |
| 5448.000  | Peak                   | 49.29                       | 8.07      | 57.36            | 74.00            | -16.64    |
| 5448.000  | Average                | 36.77                       | 8.07      | 44.84            | 54.00            | -9.16     |

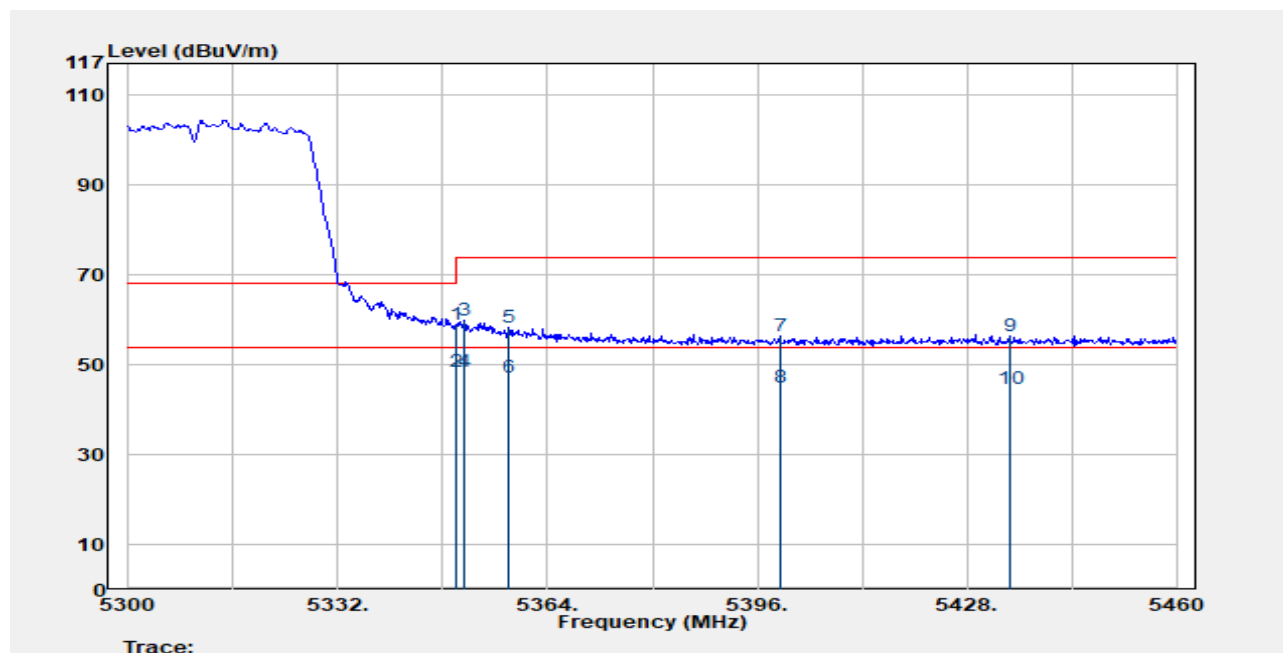
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5310 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level d $\mu$ V | Factor dB | Actual FS d $\mu$ V/m | Limit @3m d $\mu$ V/m | Margin dB |
|-----------|------------------------|----------------------------------|-----------|-----------------------|-----------------------|-----------|
| 5350.000  | Peak                   | 50.70                            | 8.12      | 58.83                 | 74.00                 | -15.17    |
| 5350.000  | Average                | 40.51                            | 8.12      | 48.63                 | 54.00                 | -5.37     |
| 5351.200  | Peak                   | 51.89                            | 8.12      | 60.02                 | 74.00                 | -13.98    |
| 5351.200  | Average                | 40.32                            | 8.12      | 48.44                 | 54.00                 | -5.56     |
| 5358.080  | Peak                   | 50.14                            | 8.13      | 58.27                 | 74.00                 | -15.73    |
| 5358.080  | Average                | 39.04                            | 8.13      | 47.17                 | 54.00                 | -6.83     |
| 5399.520  | Peak                   | 48.41                            | 8.13      | 56.54                 | 74.00                 | -17.46    |
| 5399.520  | Average                | 36.79                            | 8.13      | 44.92                 | 54.00                 | -9.08     |
| 5434.560  | Peak                   | 48.44                            | 8.08      | 56.52                 | 74.00                 | -17.48    |
| 5434.560  | Average                | 36.58                            | 8.08      | 44.66                 | 54.00                 | -9.34     |

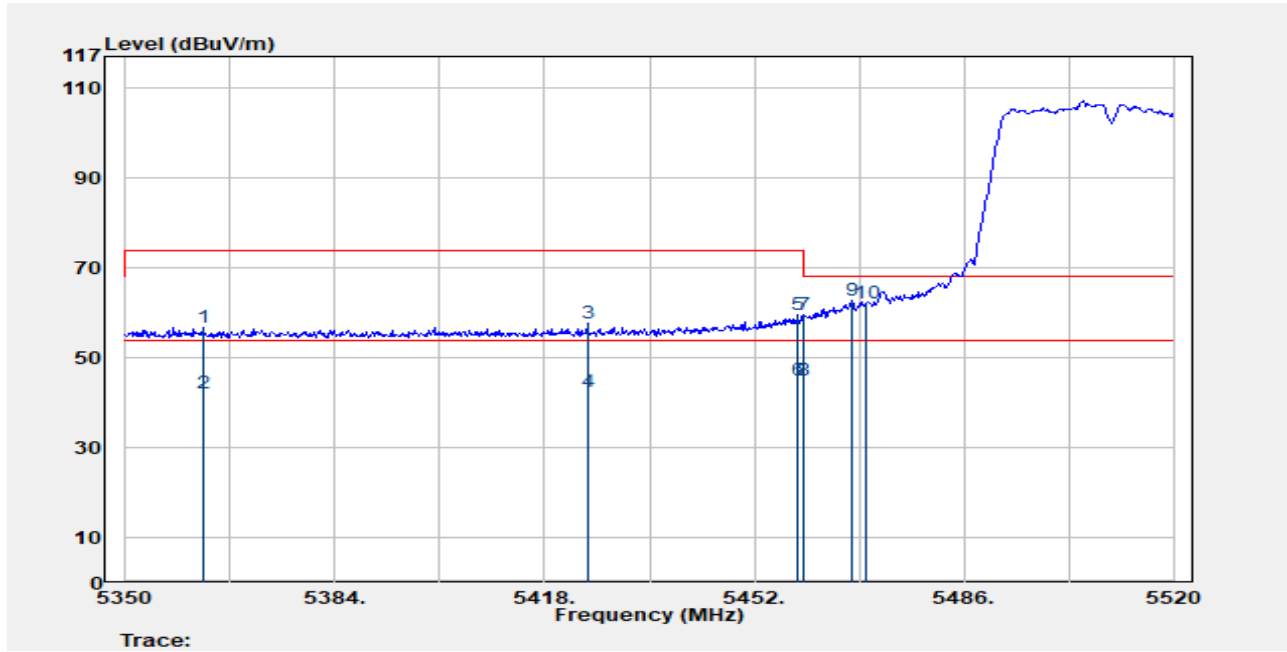
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5510 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level d $\mu$ V | Factor dB | Actual FS d $\mu$ V/m | Limit @3m d $\mu$ V/m | Margin dB |
|-----------|------------------------|----------------------------------|-----------|-----------------------|-----------------------|-----------|
| 5362.580  | Peak                   | 48.54                            | 8.13      | 56.67                 | 74.00                 | -17.33    |
| 5362.580  | Average                | 34.10                            | 8.13      | 42.23                 | 54.00                 | -11.77    |
| 5424.970  | Peak                   | 49.71                            | 8.10      | 57.80                 | 74.00                 | -16.20    |
| 5424.970  | Average                | 34.34                            | 8.10      | 42.44                 | 54.00                 | -11.56    |
| 5459.140  | Peak                   | 51.60                            | 8.07      | 59.67                 | 74.00                 | -14.33    |
| 5459.140  | Average                | 36.81                            | 8.07      | 44.88                 | 54.00                 | -9.12     |
| 5460.000  | Peak                   | 51.69                            | 8.07      | 59.76                 | 74.00                 | -14.24    |
| 5460.000  | Average                | 36.97                            | 8.07      | 45.04                 | 54.00                 | -8.96     |
| 5467.980  | Peak                   | 54.63                            | 8.08      | 62.70                 | 68.20                 | -5.50     |
| 5470.000  | Peak                   | 53.92                            | 8.08      | 62.00                 | 68.20                 | -6.20     |

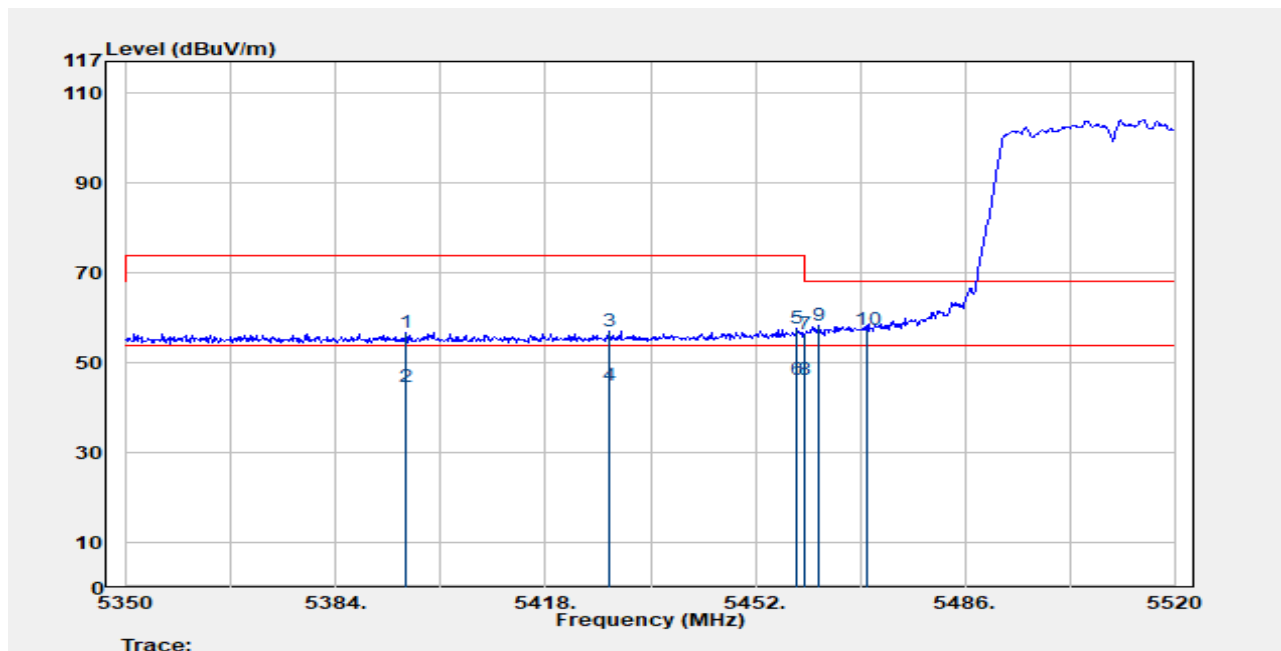
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5510 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB $\mu$ V | Factor dB | Actual FS dB $\mu$ V/m | Limit @3m dB $\mu$ V/m | Margin dB |
|-----------|------------------------|-----------------------------------|-----------|------------------------|------------------------|-----------|
| 5395.390  | Peak                   | 48.64                             | 8.13      | 56.77                  | 74.00                  | -17.23    |
| 5395.390  | Average                | 36.46                             | 8.13      | 44.59                  | 54.00                  | -9.41     |
| 5428.200  | Peak                   | 48.88                             | 8.09      | 56.97                  | 74.00                  | -17.03    |
| 5428.200  | Average                | 36.85                             | 8.09      | 44.94                  | 54.00                  | -9.06     |
| 5458.800  | Peak                   | 49.55                             | 8.07      | 57.62                  | 74.00                  | -16.38    |
| 5458.800  | Average                | 38.18                             | 8.07      | 46.25                  | 54.00                  | -7.75     |
| 5460.000  | Peak                   | 48.38                             | 8.07      | 56.45                  | 74.00                  | -17.55    |
| 5460.000  | Average                | 38.32                             | 8.07      | 46.39                  | 54.00                  | -7.61     |
| 5462.200  | Peak                   | 50.35                             | 8.07      | 58.42                  | 68.20                  | -9.78     |
| 5470.000  | Peak                   | 49.38                             | 8.08      | 57.46                  | 68.20                  | -10.74    |

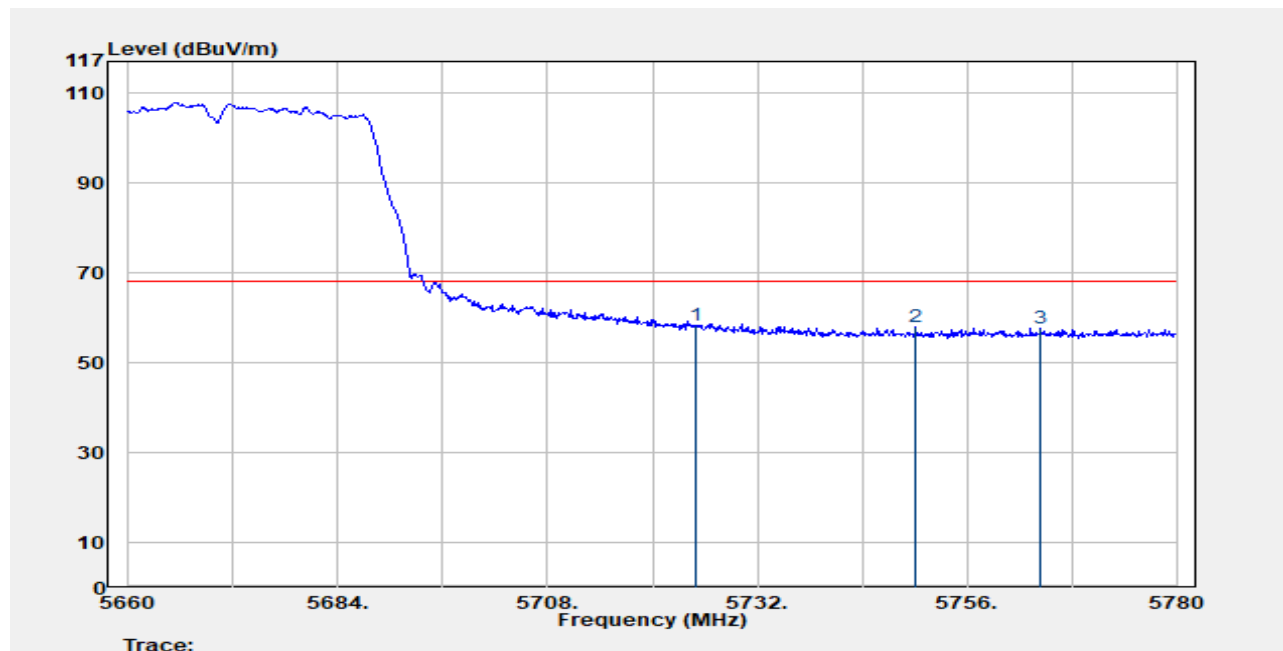
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5670 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>d $\mu$ V | Factor<br>dB | Actual<br>FS<br>d $\mu$ V/m | Limit<br>@3m<br>d $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 5725.000     | Peak                         | 49.47                                  | 8.81         | 58.28                       | 68.20                       | -9.92        |
| 5750.120     | Peak                         | 49.07                                  | 8.93         | 58.00                       | 68.20                       | -10.20       |
| 5764.520     | Peak                         | 48.63                                  | 9.03         | 57.66                       | 68.20                       | -10.54       |

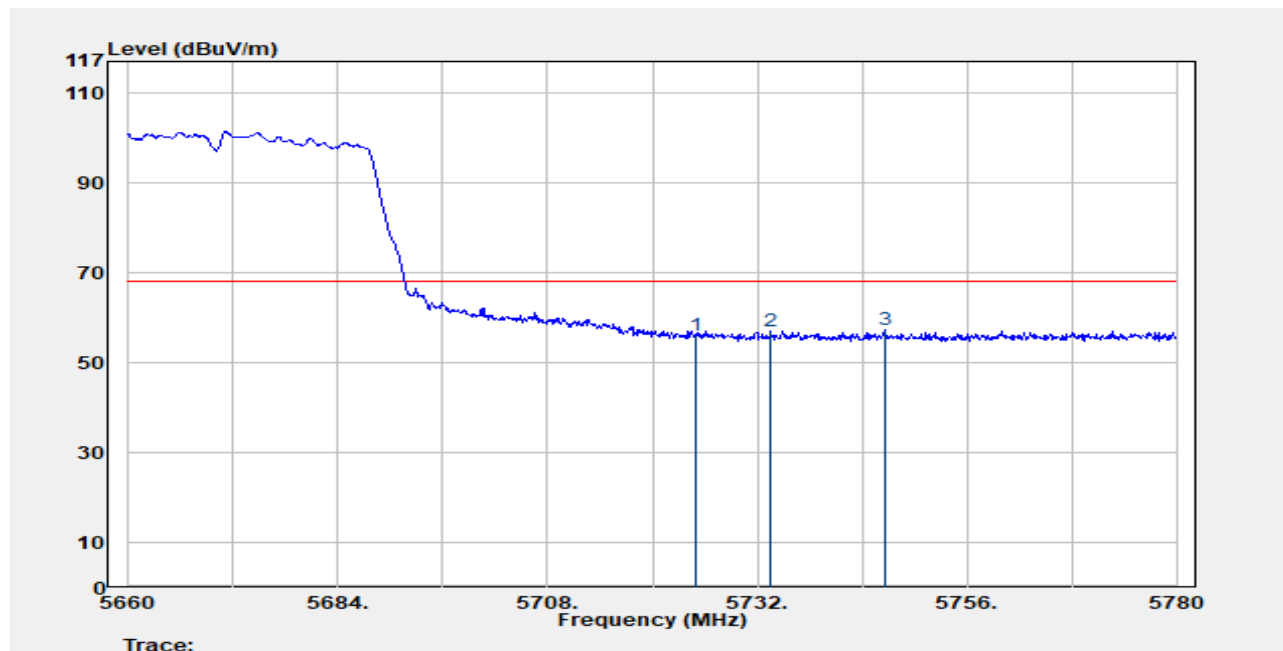
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5670 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5725.000     | Peak                         | 47.18                             | 8.81         | 55.99                  | 68.20                  | -12.21       |
| 5733.560     | Peak                         | 48.17                             | 8.85         | 57.02                  | 68.20                  | -11.18       |
| 5746.640     | Peak                         | 48.37                             | 8.91         | 57.28                  | 68.20                  | -10.92       |

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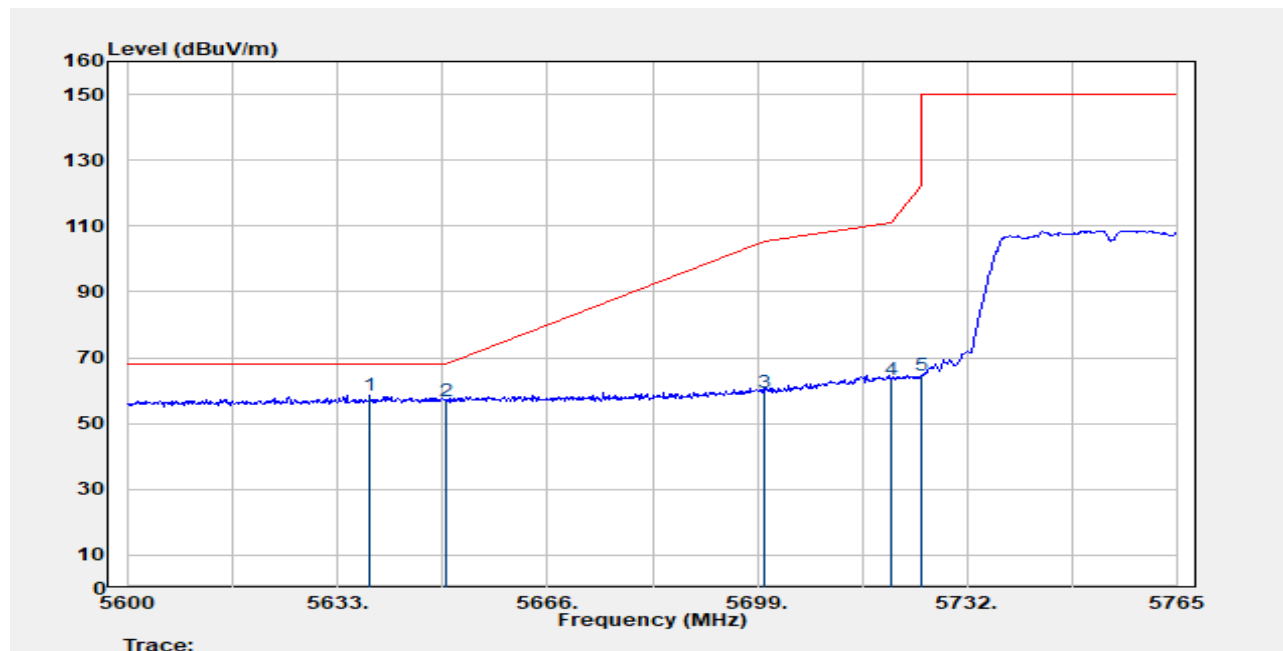
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5755 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|-----------|------------------------|-----------------------------|-----------|------------------|------------------|-----------|
| 5637.950  | Peak                   | 50.31                       | 8.28      | 58.59            | 68.20            | -9.61     |
| 5650.000  | Peak                   | 48.28                       | 8.32      | 56.60            | 68.20            | -11.60    |
| 5700.000  | Peak                   | 50.89                       | 8.69      | 59.58            | 105.20           | -45.62    |
| 5720.000  | Peak                   | 54.64                       | 8.79      | 63.42            | 110.80           | -47.38    |
| 5725.000  | Peak                   | 55.62                       | 8.81      | 64.43            | 122.20           | -57.77    |

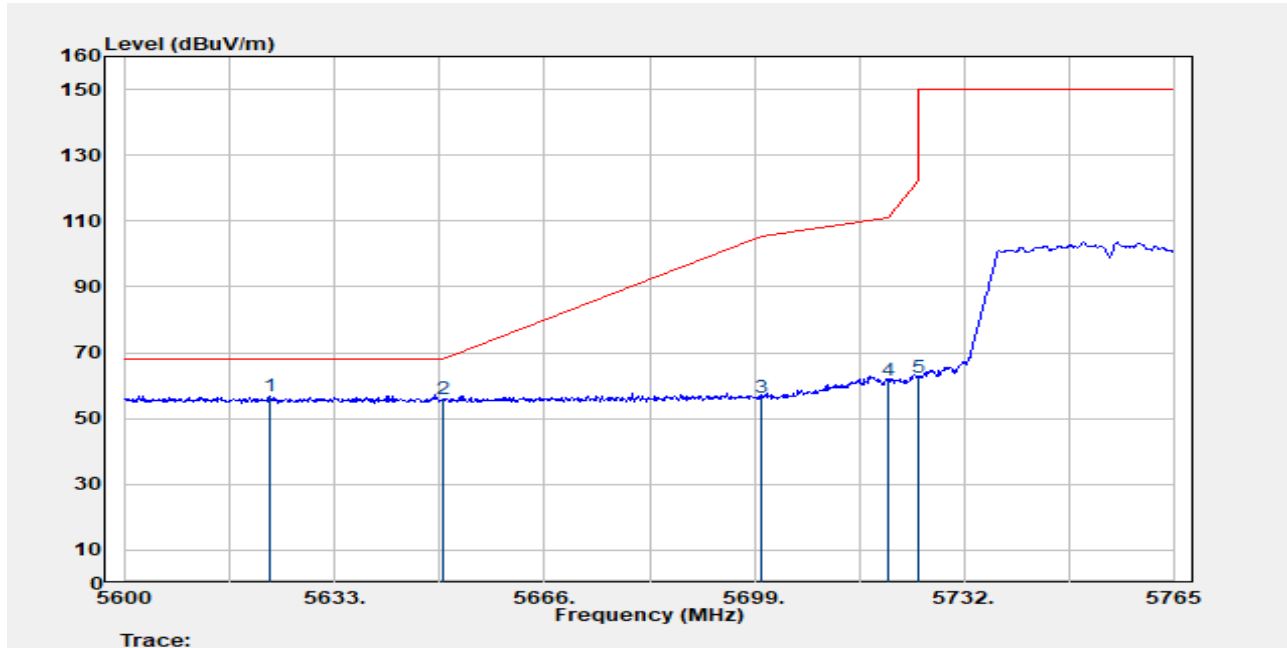
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5755 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5622.605     | Peak                         | 48.78                             | 8.23         | 57.01                  | 68.20                  | -11.19       |
| 5650.000     | Peak                         | 47.53                             | 8.32         | 55.85                  | 68.20                  | -12.35       |
| 5700.000     | Peak                         | 47.70                             | 8.69         | 56.39                  | 105.20                 | -48.81       |
| 5720.000     | Peak                         | 52.60                             | 8.79         | 61.39                  | 110.80                 | -49.41       |
| 5725.000     | Peak                         | 53.71                             | 8.81         | 62.51                  | 122.20                 | -59.69       |

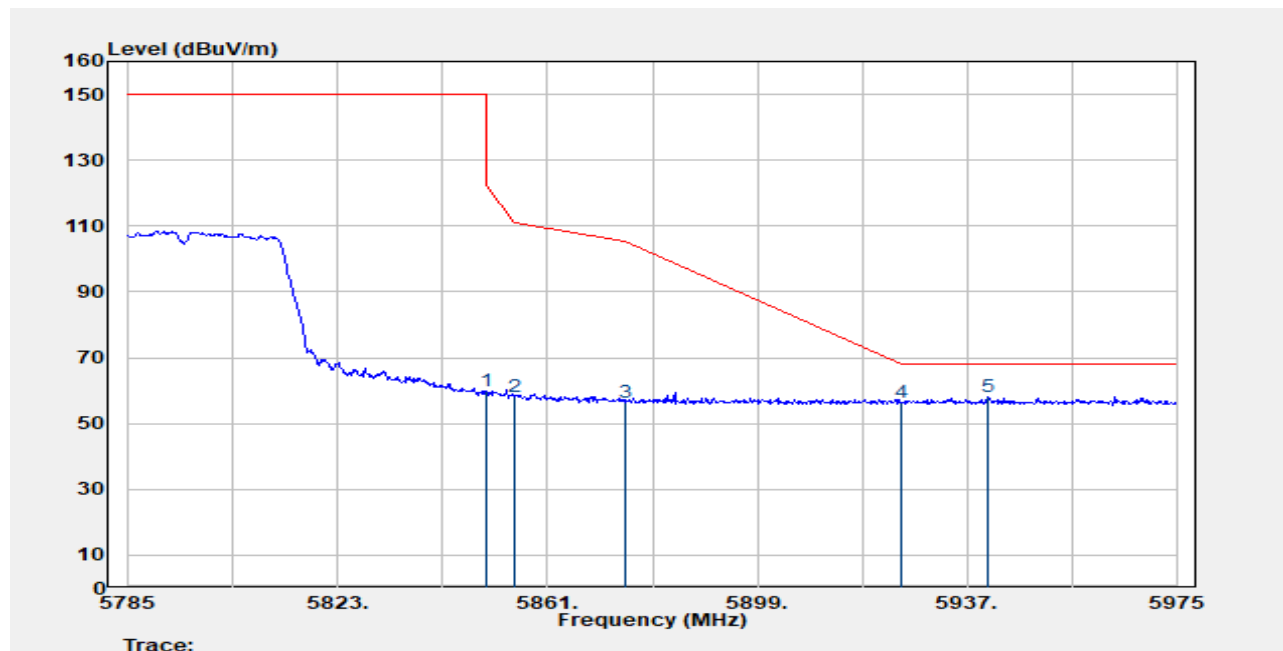
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5795 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>d $\mu$ V | Factor<br>dB | Actual<br>FS<br>d $\mu$ V/m | Limit<br>@3m<br>d $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 5850.000     | Peak                         | 50.43                                  | 9.42         | 59.85                       | 122.20                      | -62.35       |
| 5855.000     | Peak                         | 48.84                                  | 9.44         | 58.28                       | 110.80                      | -52.52       |
| 5875.000     | Peak                         | 46.88                                  | 9.50         | 56.38                       | 105.20                      | -48.82       |
| 5925.000     | Peak                         | 46.94                                  | 9.65         | 56.58                       | 68.20                       | -11.62       |
| 5940.990     | Peak                         | 48.32                                  | 9.69         | 58.01                       | 68.20                       | -10.19       |

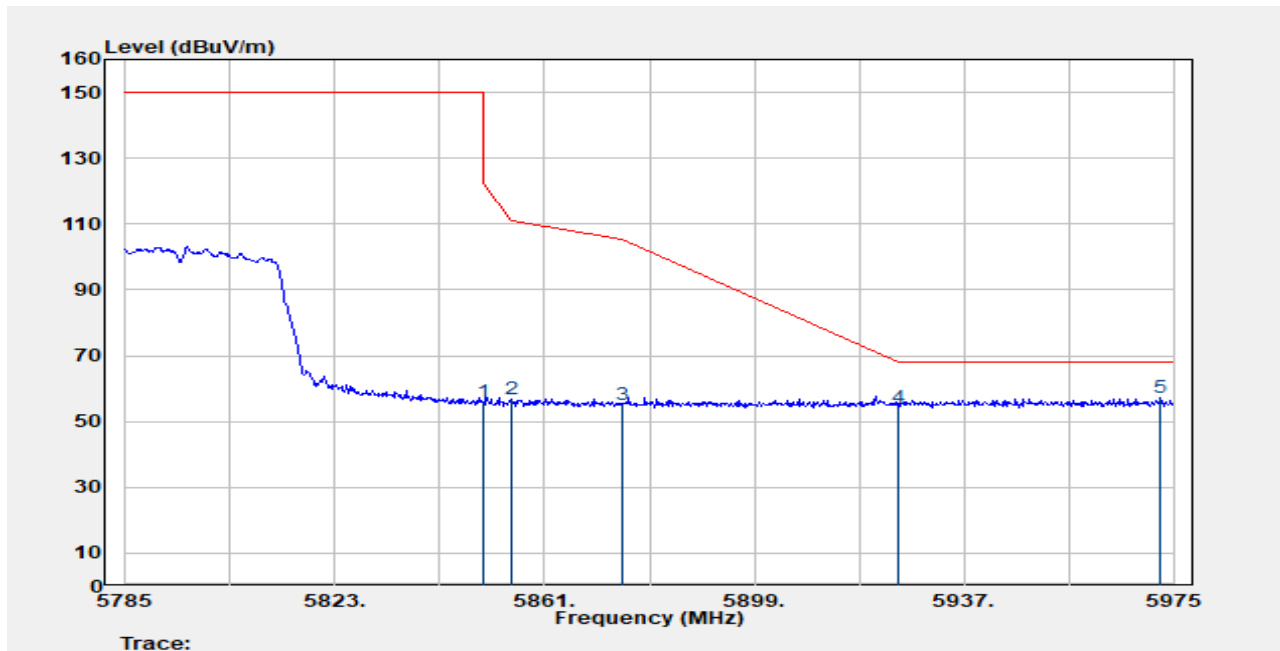
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Report Number :ER-2021-A0108  
 Operation Mode :802.11n40  
 Test Frequency :5795 MHz  
 Test Mode :Bandedge CH High  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5850.000     | Peak                         | 46.67                             | 9.42         | 56.09                  | 122.20                 | -66.11       |
| 5855.000     | Peak                         | 47.28                             | 9.44         | 56.72                  | 110.80                 | -54.08       |
| 5875.000     | Peak                         | 45.69                             | 9.50         | 55.19                  | 105.20                 | -50.01       |
| 5925.000     | Peak                         | 44.77                             | 9.65         | 54.41                  | 68.20                  | -13.79       |
| 5972.720     | Peak                         | 47.35                             | 9.69         | 57.03                  | 68.20                  | -11.17       |

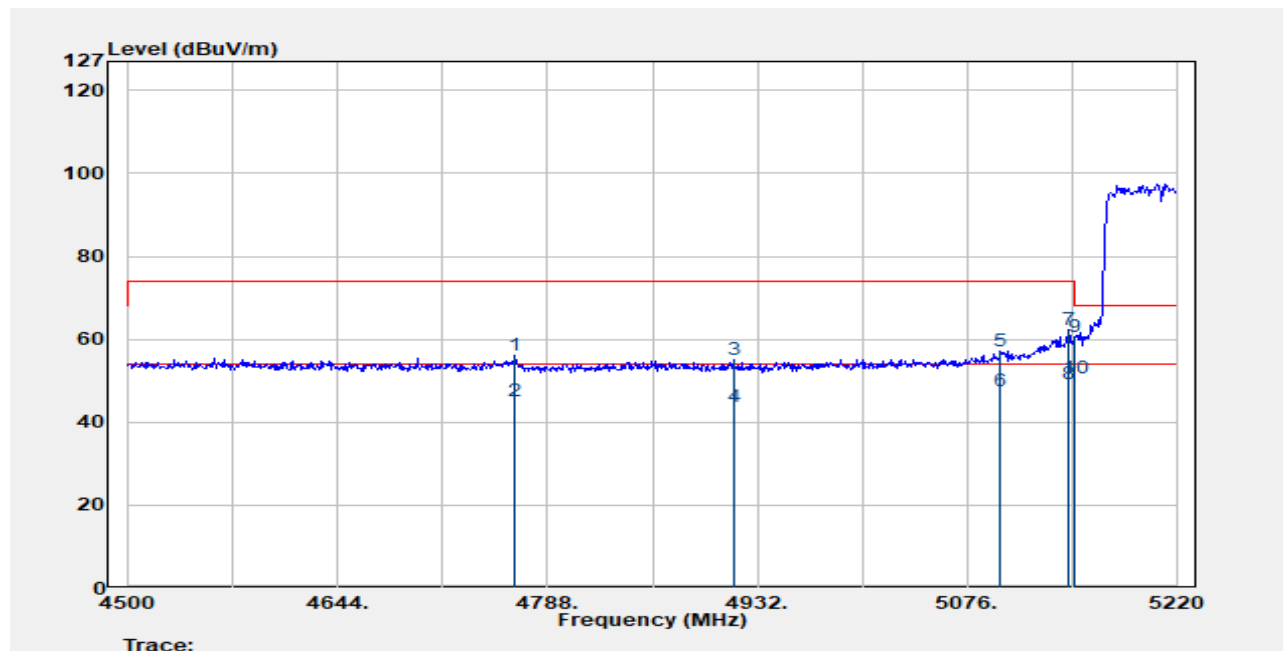
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5210 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level d $\mu$ V | Factor dB | Actual FS d $\mu$ V/m | Limit @3m d $\mu$ V/m | Margin dB |
|-----------|------------------------|----------------------------------|-----------|-----------------------|-----------------------|-----------|
| 4765.680  | Peak                   | 49.04                            | 6.95      | 55.99                 | 74.00                 | -18.01    |
| 4765.680  | Average                | 38.05                            | 6.95      | 45.00                 | 54.00                 | -9.00     |
| 4915.440  | Peak                   | 47.78                            | 7.42      | 55.20                 | 74.00                 | -18.80    |
| 4915.440  | Average                | 36.21                            | 7.42      | 43.63                 | 54.00                 | -10.37    |
| 5099.040  | Peak                   | 48.30                            | 8.83      | 57.12                 | 74.00                 | -16.88    |
| 5099.040  | Average                | 38.83                            | 8.83      | 47.66                 | 54.00                 | -6.34     |
| 5145.840  | Peak                   | 53.54                            | 8.70      | 62.24                 | 74.00                 | -11.76    |
| 5145.840  | Average                | 40.67                            | 8.70      | 49.37                 | 54.00                 | -4.63     |
| 5150.000  | Peak                   | 51.78                            | 8.68      | 60.47                 | 74.00                 | -13.53    |
| 5150.000  | Average                | 41.76                            | 8.68      | 50.44                 | 54.00                 | -3.56     |

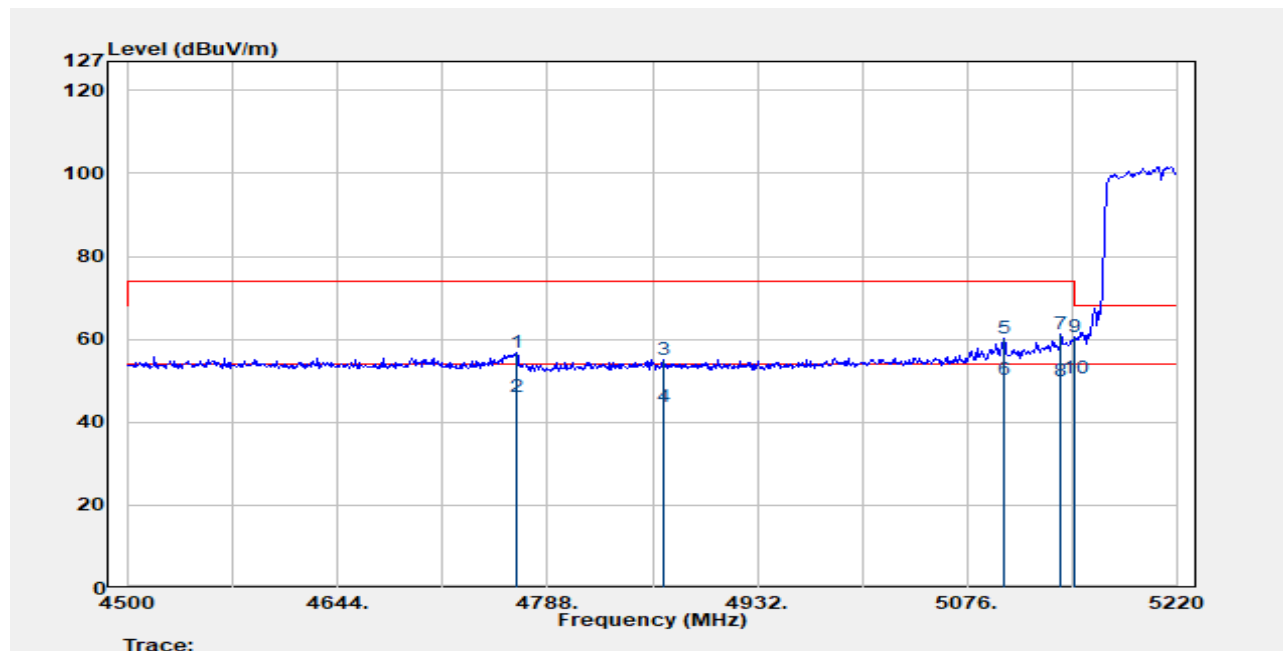
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5210 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>d $\mu$ V | Factor<br>dB | Actual<br>FS<br>d $\mu$ V/m | Limit<br>@3m<br>d $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 4766.400     | Peak                         | 49.85                                  | 6.95         | 56.80                       | 74.00                       | -17.20       |
| 4766.400     | Average                      | 39.29                                  | 6.95         | 46.24                       | 54.00                       | -7.76        |
| 4867.200     | Peak                         | 47.80                                  | 7.17         | 54.97                       | 74.00                       | -19.03       |
| 4867.200     | Average                      | 36.51                                  | 7.17         | 43.68                       | 54.00                       | -10.32       |
| 5101.920     | Peak                         | 51.36                                  | 8.83         | 60.19                       | 74.00                       | -13.81       |
| 5101.920     | Average                      | 41.32                                  | 8.83         | 50.15                       | 54.00                       | -3.85        |
| 5140.800     | Peak                         | 52.62                                  | 8.71         | 61.33                       | 74.00                       | -12.67       |
| 5140.800     | Average                      | 41.29                                  | 8.71         | 50.00                       | 54.00                       | -4.00        |
| 5150.000     | Peak                         | 51.80                                  | 8.68         | 60.48                       | 74.00                       | -13.52       |
| 5150.000     | Average                      | 41.91                                  | 8.68         | 50.59                       | 54.00                       | -3.41        |

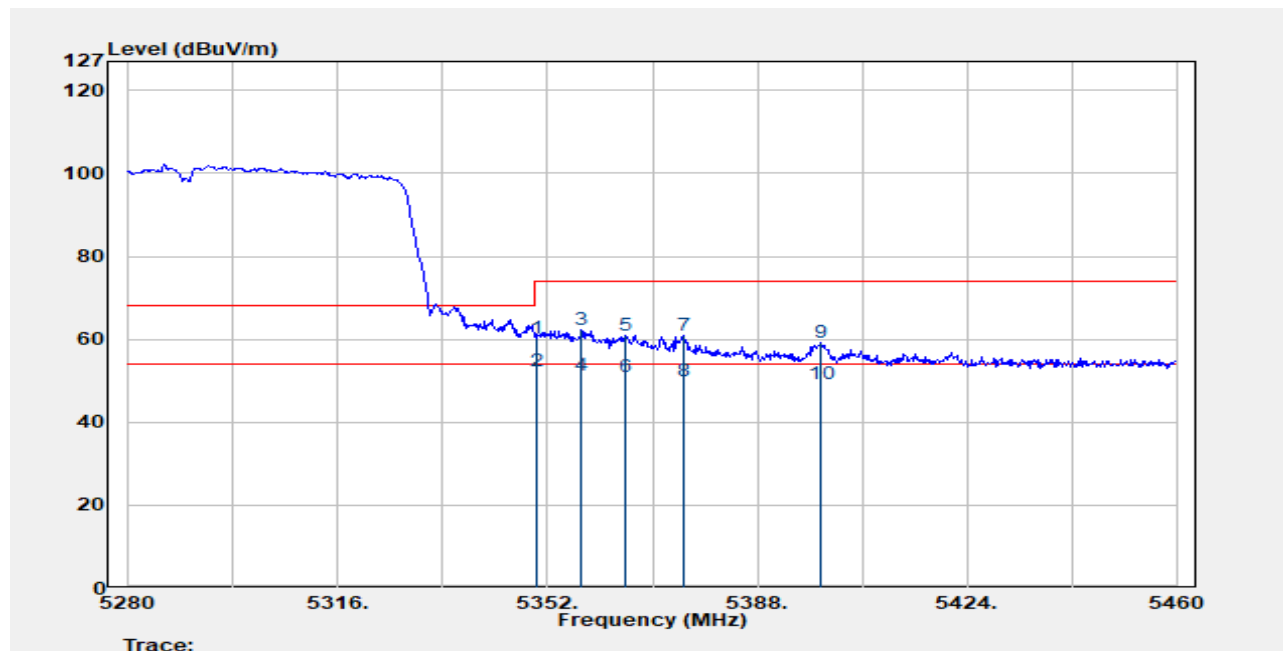
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5290 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|-----------|------------------------|-----------------------------|-----------|------------------|------------------|-----------|
| 5350.000  | Peak                   | 52.13                       | 8.12      | 60.26            | 74.00            | -13.74    |
| 5350.000  | Average                | 44.11                       | 8.12      | 52.23            | 54.00            | -1.77     |
| 5357.760  | Peak                   | 54.08                       | 8.13      | 62.20            | 74.00            | -11.80    |
| 5357.760  | Average                | 43.24                       | 8.13      | 51.37            | 54.00            | -2.63     |
| 5365.320  | Peak                   | 52.95                       | 8.13      | 61.08            | 74.00            | -12.92    |
| 5365.320  | Average                | 42.86                       | 8.13      | 50.99            | 54.00            | -3.01     |
| 5375.400  | Peak                   | 52.78                       | 8.13      | 60.91            | 74.00            | -13.09    |
| 5375.400  | Average                | 41.72                       | 8.13      | 49.85            | 54.00            | -4.15     |
| 5398.980  | Peak                   | 50.99                       | 8.13      | 59.12            | 74.00            | -14.88    |
| 5398.980  | Average                | 41.26                       | 8.13      | 49.39            | 54.00            | -4.61     |

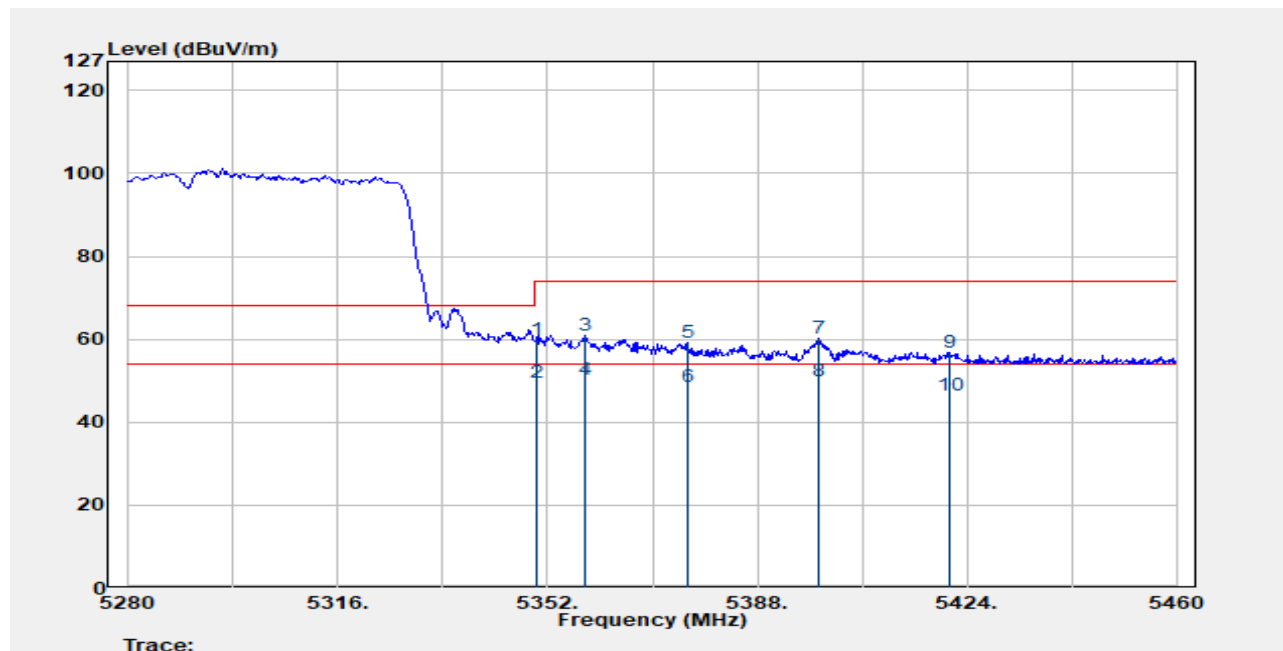
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5290 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBuV | Factor dB | Actual FS dBuV/m | Limit @3m dBuV/m | Margin dB |
|-----------|------------------------|-----------------------------|-----------|------------------|------------------|-----------|
| 5350.000  | Peak                   | 51.79                       | 8.12      | 59.91            | 74.00            | -14.09    |
| 5350.000  | Average                | 41.60                       | 8.12      | 49.72            | 54.00            | -4.28     |
| 5358.480  | Peak                   | 52.86                       | 8.13      | 60.98            | 74.00            | -13.02    |
| 5358.480  | Average                | 42.21                       | 8.13      | 50.34            | 54.00            | -3.66     |
| 5375.940  | Peak                   | 51.13                       | 8.13      | 59.26            | 74.00            | -14.74    |
| 5375.940  | Average                | 40.27                       | 8.13      | 48.40            | 54.00            | -5.60     |
| 5398.440  | Peak                   | 51.97                       | 8.13      | 60.10            | 74.00            | -13.90    |
| 5398.440  | Average                | 41.75                       | 8.13      | 49.88            | 54.00            | -4.12     |
| 5420.940  | Peak                   | 48.77                       | 8.10      | 56.87            | 74.00            | -17.13    |
| 5420.940  | Average                | 38.46                       | 8.10      | 46.56            | 54.00            | -7.44     |

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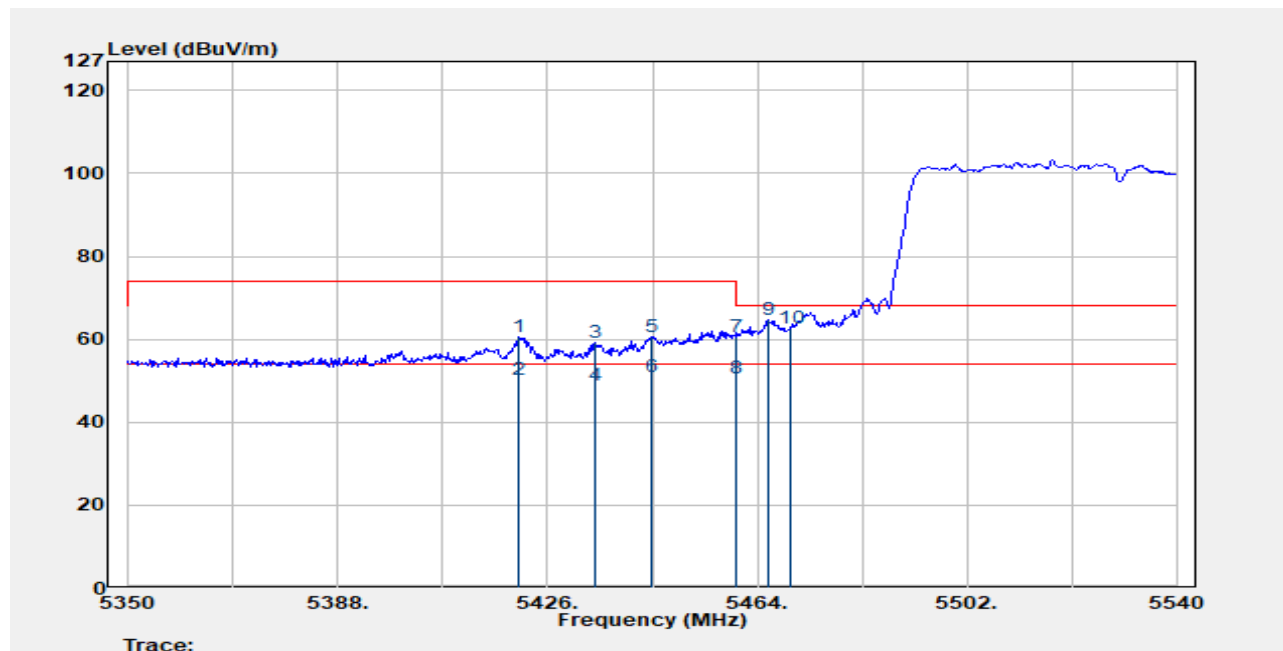
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5530 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5420.680     | Peak                         | 52.49                             | 8.10         | 60.60                  | 74.00                  | -13.40       |
| 5420.680     | Average                      | 42.17                             | 8.10         | 50.27                  | 54.00                  | -3.73        |
| 5434.740     | Peak                         | 51.15                             | 8.08         | 59.23                  | 74.00                  | -14.77       |
| 5434.740     | Average                      | 40.90                             | 8.08         | 48.98                  | 54.00                  | -5.02        |
| 5444.810     | Peak                         | 52.60                             | 8.07         | 60.67                  | 74.00                  | -13.33       |
| 5444.810     | Average                      | 42.98                             | 8.07         | 51.05                  | 54.00                  | -2.95        |
| 5460.000     | Peak                         | 52.57                             | 8.07         | 60.64                  | 74.00                  | -13.36       |
| 5460.000     | Average                      | 42.65                             | 8.07         | 50.72                  | 54.00                  | -3.28        |
| 5465.900     | Peak                         | 56.58                             | 8.07         | 64.65                  | 68.20                  | -3.55        |
| 5470.000     | Peak                         | 54.51                             | 8.08         | 62.58                  | 68.20                  | -5.62        |

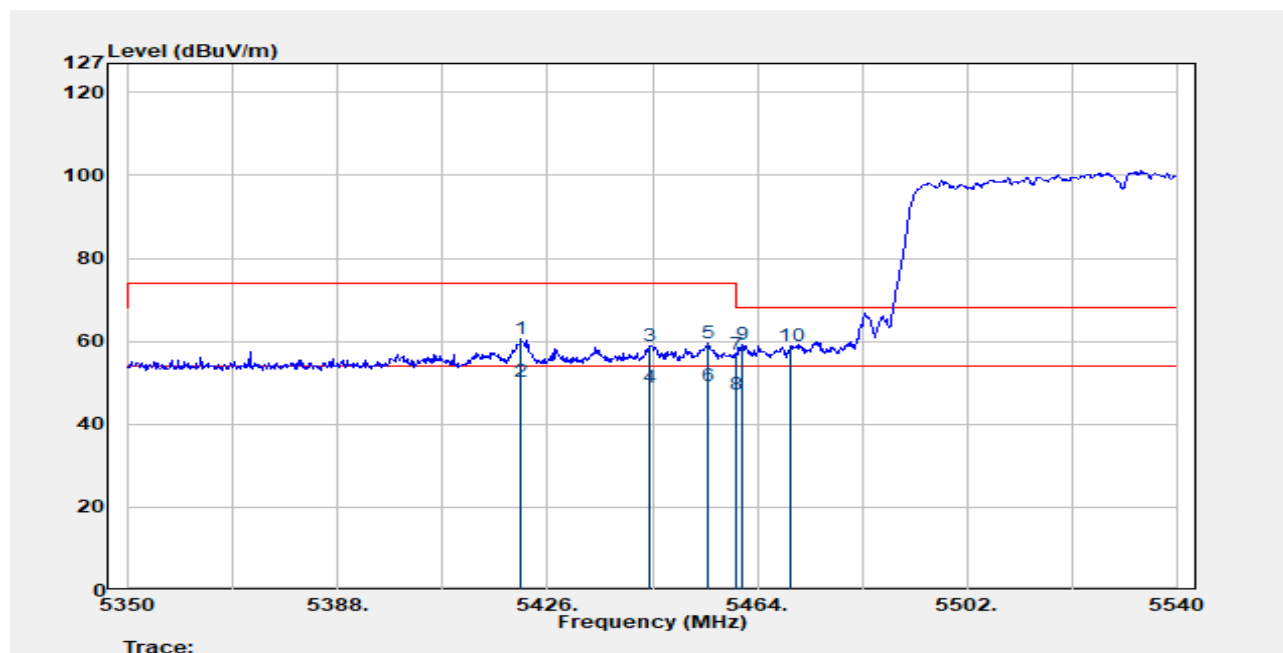
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5530 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5421.250     | Peak                         | 52.46                             | 8.10         | 60.56                  | 74.00                  | -13.44       |
| 5421.250     | Average                      | 42.03                             | 8.10         | 50.13                  | 54.00                  | -3.87        |
| 5444.430     | Peak                         | 50.82                             | 8.07         | 58.89                  | 74.00                  | -15.11       |
| 5444.430     | Average                      | 40.74                             | 8.07         | 48.81                  | 54.00                  | -5.19        |
| 5455.070     | Peak                         | 51.62                             | 8.07         | 59.69                  | 74.00                  | -14.31       |
| 5455.070     | Average                      | 41.14                             | 8.07         | 49.21                  | 54.00                  | -4.79        |
| 5460.000     | Peak                         | 48.71                             | 8.07         | 56.78                  | 74.00                  | -17.22       |
| 5460.000     | Average                      | 39.19                             | 8.07         | 47.26                  | 54.00                  | -6.74        |
| 5461.150     | Peak                         | 51.17                             | 8.07         | 59.24                  | 68.20                  | -8.96        |
| 5470.000     | Peak                         | 50.65                             | 8.08         | 58.72                  | 68.20                  | -9.48        |

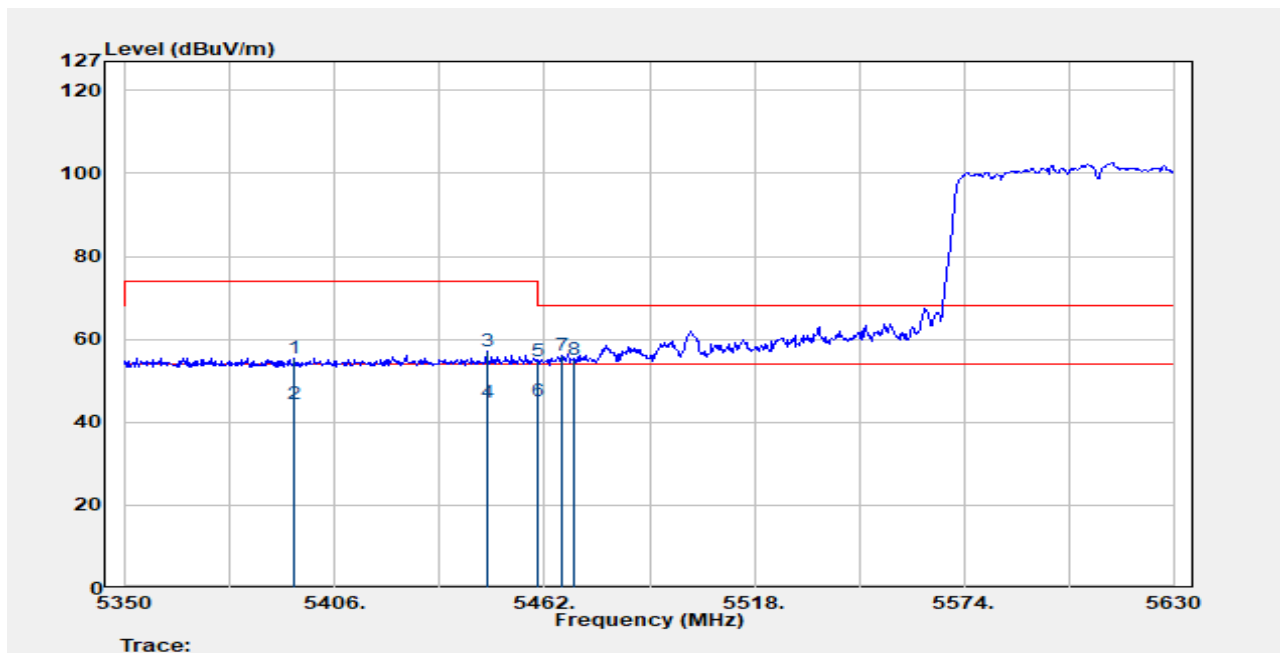
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5610 MHz  
 Test Mode :Bandedge CH Mid  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>d $\mu$ V | Factor<br>dB | Actual<br>FS<br>d $\mu$ V/m | Limit<br>@3m<br>d $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 5395.080     | Peak                         | 47.45                                  | 8.13         | 55.58                       | 74.00                       | -18.42       |
| 5395.080     | Average                      | 36.23                                  | 8.13         | 44.36                       | 54.00                       | -9.64        |
| 5446.600     | Peak                         | 49.06                                  | 8.07         | 57.12                       | 74.00                       | -16.88       |
| 5446.600     | Average                      | 36.77                                  | 8.07         | 44.84                       | 54.00                       | -9.16        |
| 5460.000     | Peak                         | 46.73                                  | 8.07         | 54.80                       | 74.00                       | -19.20       |
| 5460.000     | Average                      | 37.00                                  | 8.07         | 45.07                       | 54.00                       | -8.93        |
| 5466.760     | Peak                         | 48.17                                  | 8.07         | 56.25                       | 68.20                       | -11.95       |
| 5470.000     | Peak                         | 46.99                                  | 8.08         | 55.07                       | 68.20                       | -13.13       |

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Report Number :ER-2021-A0108

Test Site :SAC 3

Operation Mode :802.11ac80

Test Date :2021-11-26

Test Frequency :5610 MHz

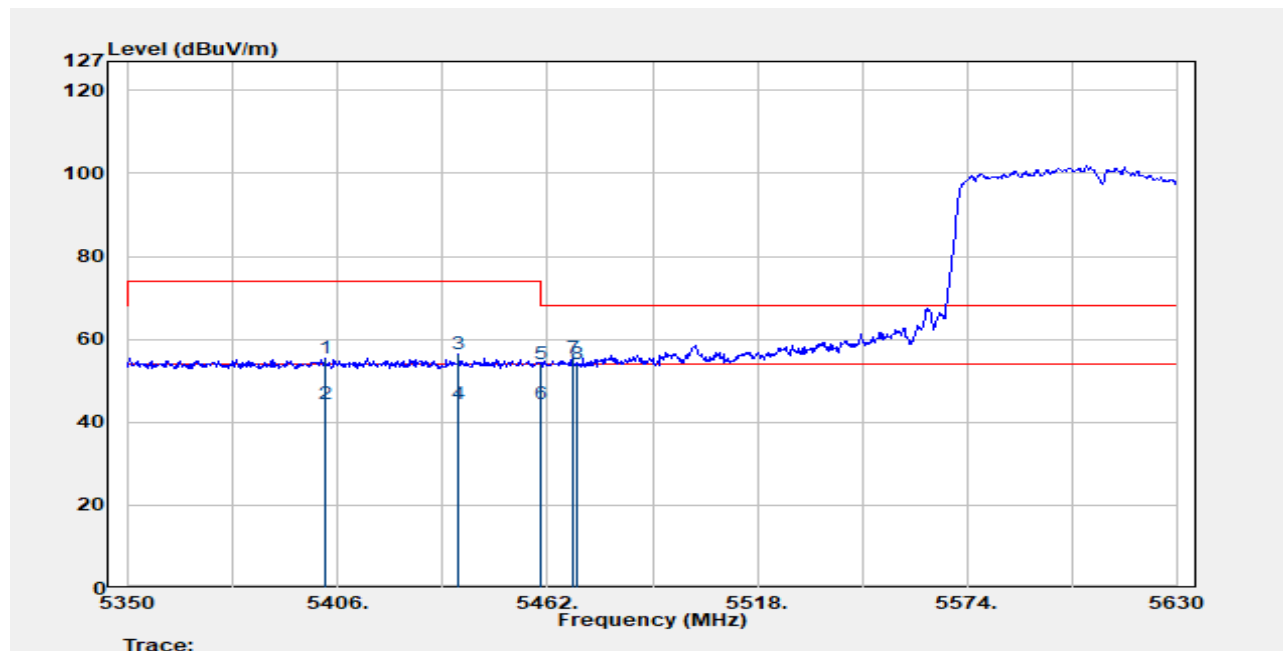
Temp./Humi. :21.5/70

Test Mode :Bandedge CH Mid

Antenna Pol. :Horizontal

EUT Pol :H Plane

Engineer :Jack Liu



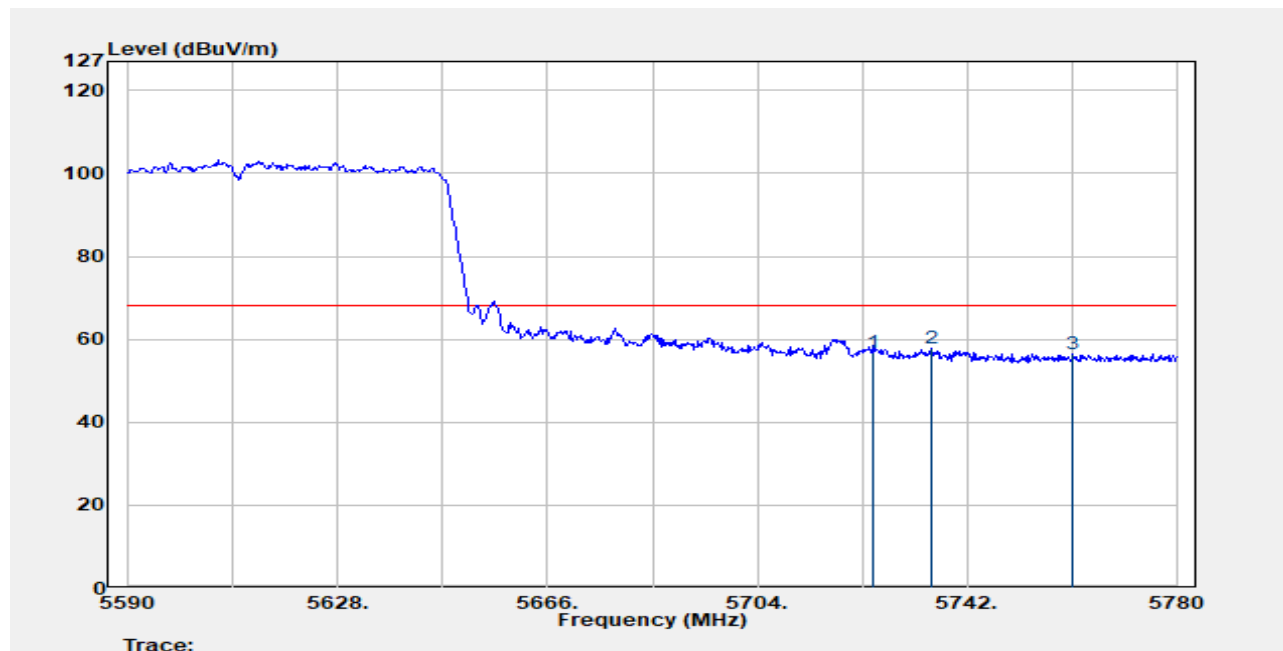
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBuV | Factor<br>dB | Actual<br>FS<br>dBuV/m | Limit<br>@3m<br>dBuV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5402.360     | Peak                         | 47.45                             | 8.13         | 55.57                  | 74.00                  | -18.43       |
| 5402.360     | Average                      | 36.18                             | 8.13         | 44.31                  | 54.00                  | -9.69        |
| 5438.200     | Peak                         | 48.24                             | 8.08         | 56.32                  | 74.00                  | -17.68       |
| 5438.200     | Average                      | 36.38                             | 8.08         | 44.46                  | 54.00                  | -9.54        |
| 5460.000     | Peak                         | 46.08                             | 8.07         | 54.15                  | 74.00                  | -19.85       |
| 5460.000     | Average                      | 36.45                             | 8.07         | 44.52                  | 54.00                  | -9.48        |
| 5468.720     | Peak                         | 47.43                             | 8.08         | 55.51                  | 68.20                  | -12.69       |
| 5470.000     | Peak                         | 45.92                             | 8.08         | 54.00                  | 68.20                  | -14.20       |

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|                |                  |              |             |
|----------------|------------------|--------------|-------------|
| Report Number  | :ER-2021-A0108   | Test Site    | :SAC 3      |
| Operation Mode | :802.11ac80      | Test Date    | :2021-11-26 |
| Test Frequency | :5610 MHz        | Temp./Humi.  | :21.5/70    |
| Test Mode      | :Bandedge CH Mid | Antenna Pol. | :Vertical   |
| EUT Pol        | :H Plane         | Engineer     | :Jack Liu   |



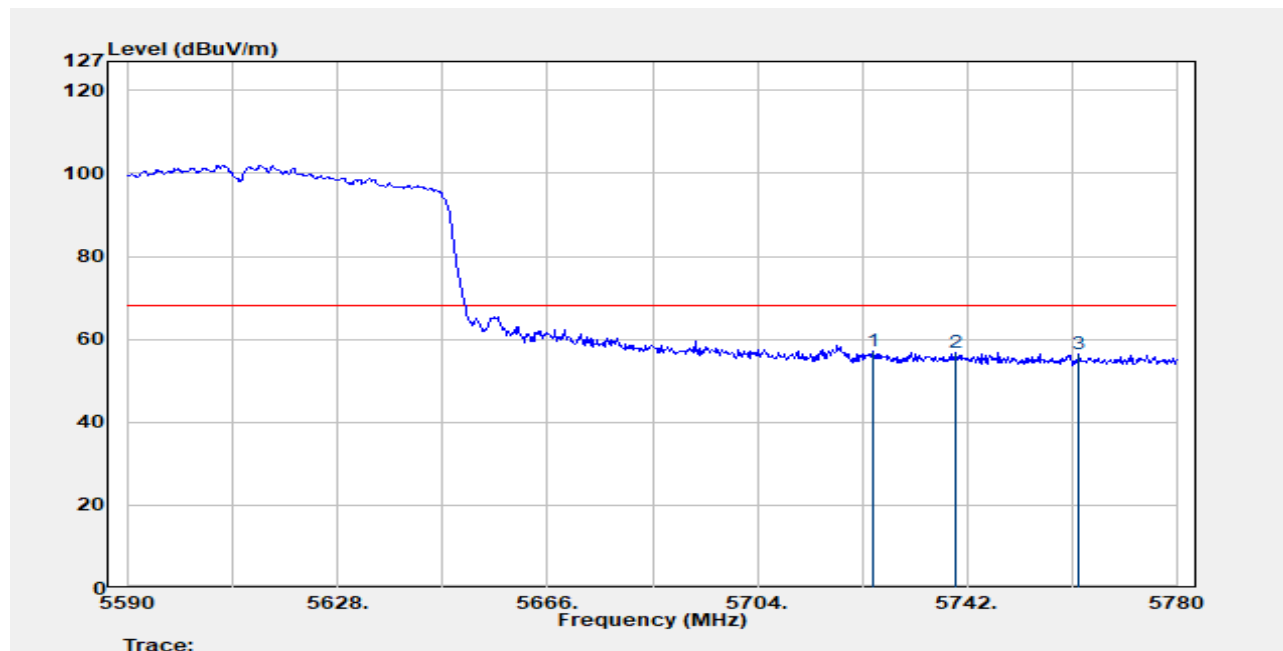
| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>d $\mu$ V | Factor<br>dB | Actual<br>FS<br>d $\mu$ V/m | Limit<br>@3m<br>d $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 5725.000     | Peak                         | 47.99                                  | 8.81         | 56.80                       | 68.20                       | -11.40       |
| 5735.730     | Peak                         | 48.97                                  | 8.86         | 57.83                       | 68.20                       | -10.37       |
| 5761.190     | Peak                         | 47.27                                  | 9.00         | 56.28                       | 68.20                       | -11.92       |

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|                |                  |              |             |
|----------------|------------------|--------------|-------------|
| Report Number  | :ER-2021-A0108   | Test Site    | :SAC 3      |
| Operation Mode | :802.11ac80      | Test Date    | :2021-11-26 |
| Test Frequency | :5610 MHz        | Temp./Humi.  | :21.5/70    |
| Test Mode      | :Bandedge CH Mid | Antenna Pol. | :Horizontal |
| EUT Pol        | :H Plane         | Engineer     | :Jack Liu   |



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>d $\mu$ V | Factor<br>dB | Actual<br>FS<br>d $\mu$ V/m | Limit<br>@3m<br>d $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 5725.000     | Peak                         | 48.34                                  | 8.81         | 57.15                       | 68.20                       | -11.05       |
| 5740.100     | Peak                         | 47.94                                  | 8.88         | 56.82                       | 68.20                       | -11.38       |
| 5762.330     | Peak                         | 47.40                                  | 9.01         | 56.41                       | 68.20                       | -11.79       |

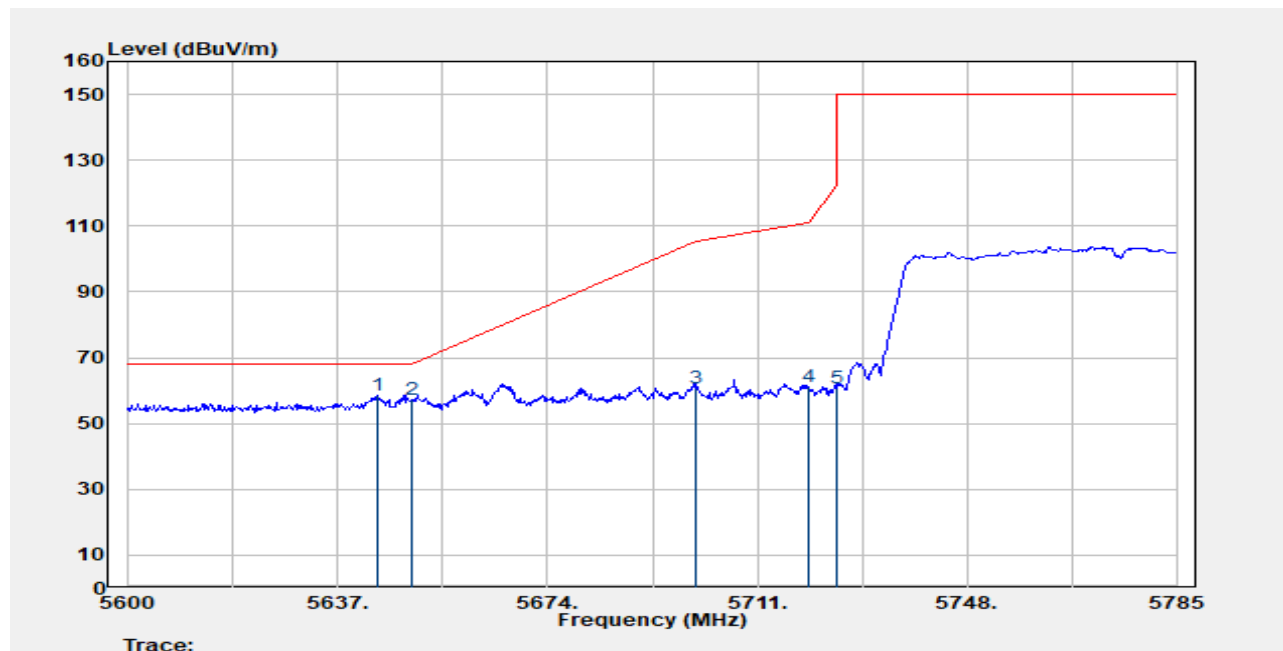
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Report Number :ER-2021-A0108  
 Operation Mode :802.11ac80  
 Test Frequency :5775 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5643.845     | Peak                         | 50.07                             | 8.30         | 58.37                  | 68.20                  | -9.83        |
| 5650.000     | Peak                         | 49.00                             | 8.32         | 57.32                  | 68.20                  | -10.88       |
| 5700.000     | Peak                         | 51.94                             | 8.69         | 60.63                  | 105.20                 | -44.57       |
| 5720.000     | Peak                         | 52.45                             | 8.79         | 61.23                  | 110.80                 | -49.57       |
| 5725.000     | Peak                         | 51.96                             | 8.81         | 60.77                  | 122.20                 | -61.43       |

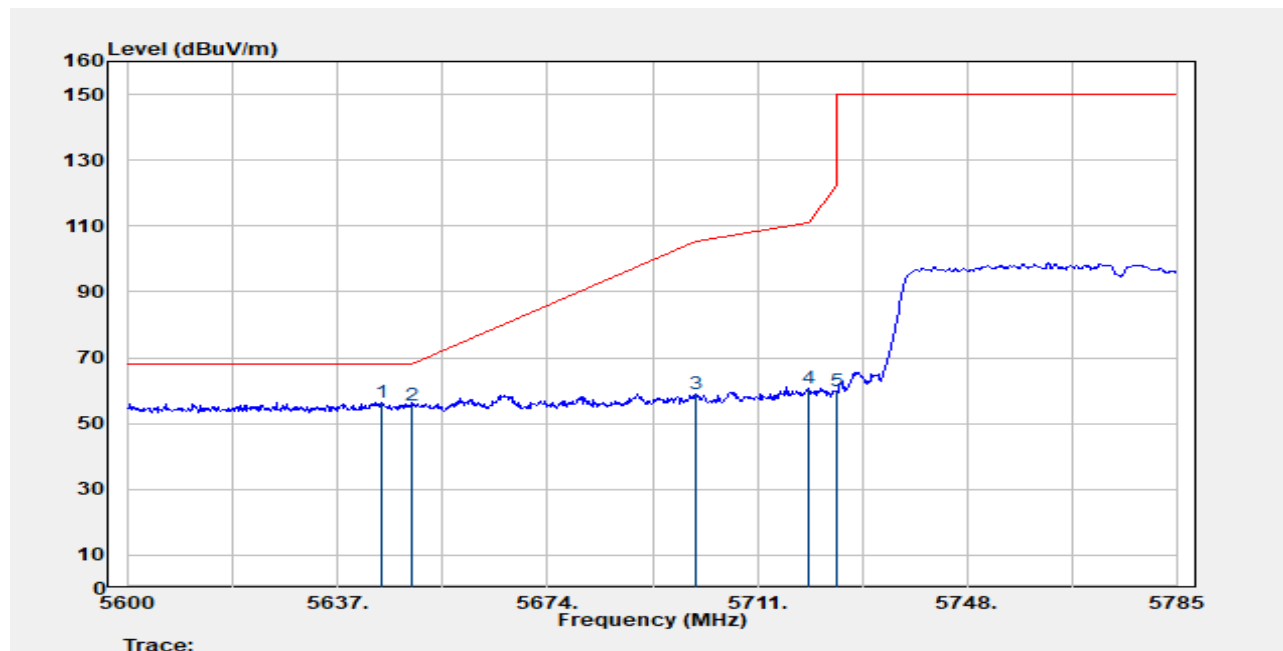
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 Operation Mode :802.11ac80  
 Test Frequency :5775 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dBμV | Factor<br>dB | Actual<br>FS<br>dBμV/m | Limit<br>@3m<br>dBμV/m | Margin<br>dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5644.770     | Peak                         | 48.09                             | 8.30         | 56.40                  | 68.20                  | -11.80       |
| 5650.000     | Peak                         | 47.17                             | 8.32         | 55.49                  | 68.20                  | -12.71       |
| 5700.000     | Peak                         | 50.35                             | 8.69         | 59.04                  | 105.20                 | -46.16       |
| 5720.000     | Peak                         | 51.83                             | 8.79         | 60.62                  | 110.80                 | -50.18       |
| 5725.000     | Peak                         | 50.90                             | 8.81         | 59.71                  | 122.20                 | -62.49       |

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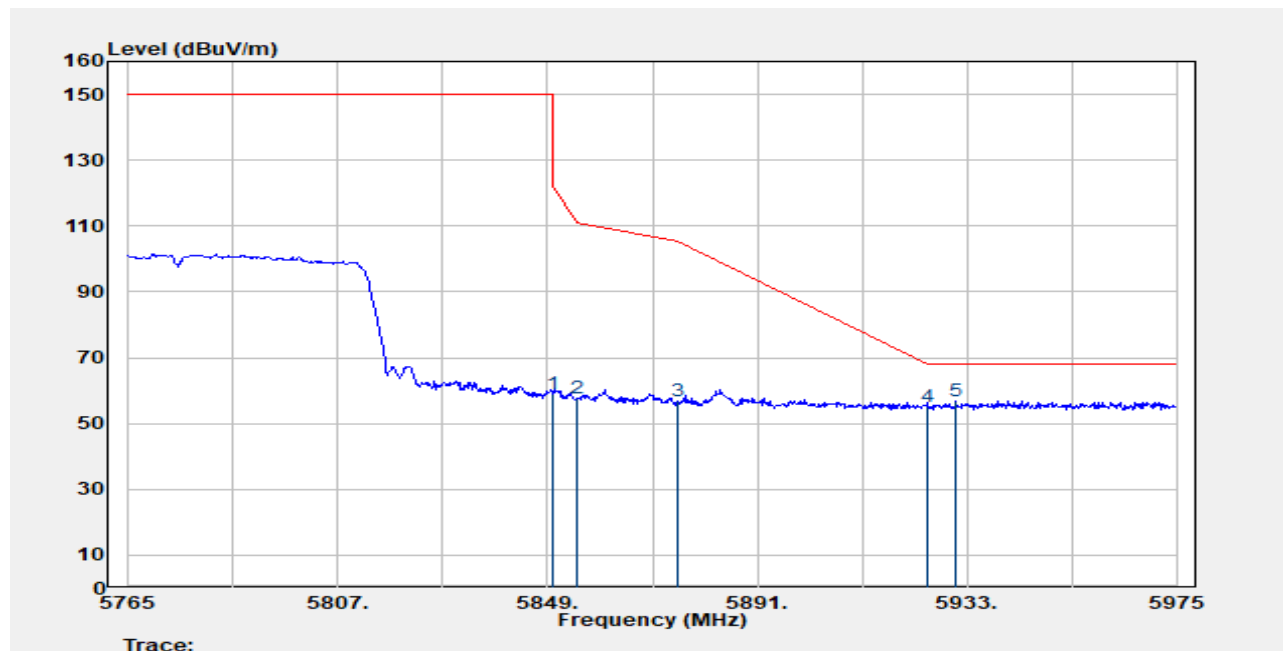
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 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Vertical  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 5850.000     | Peak                         | 49.61                                   | 9.42         | 59.03                        | 122.20                       | -63.17       |
| 5855.000     | Peak                         | 48.17                                   | 9.44         | 57.61                        | 110.80                       | -53.19       |
| 5875.000     | Peak                         | 47.35                                   | 9.50         | 56.85                        | 105.20                       | -48.35       |
| 5925.000     | Peak                         | 45.48                                   | 9.65         | 55.13                        | 68.20                        | -13.07       |
| 5930.900     | Peak                         | 47.30                                   | 9.66         | 56.97                        | 68.20                        | -11.23       |

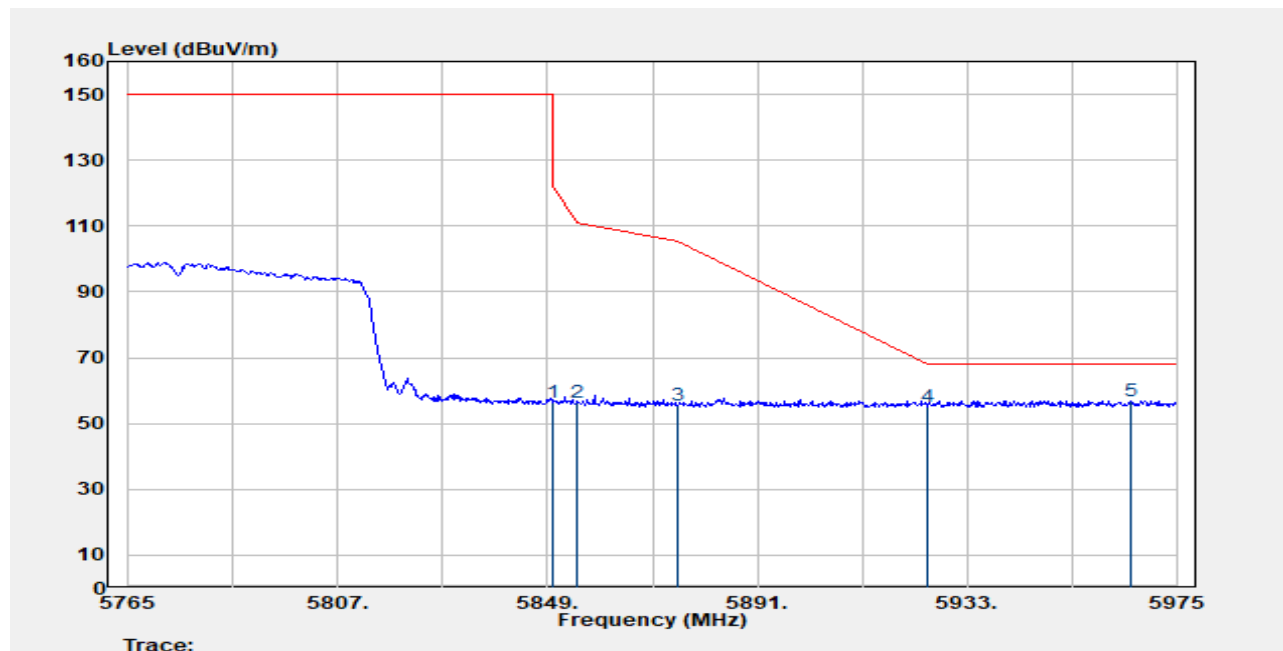
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 Test Frequency :5775 MHz  
 Test Mode :Bandedge CH Low  
 EUT Pol :H Plane

Test Site :SAC 3  
 Test Date :2021-11-26  
 Temp./Humi. :21.5/70  
 Antenna Pol. :Horizontal  
 Engineer :Jack Liu



| Freq.<br>MHz | Detector<br>Mode<br>PK/QP/AV | Spectrum<br>Reading Level<br>dB $\mu$ V | Factor<br>dB | Actual<br>FS<br>dB $\mu$ V/m | Limit<br>@3m<br>dB $\mu$ V/m | Margin<br>dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 5850.000     | Peak                         | 46.85                                   | 9.42         | 56.27                        | 122.20                       | -65.93       |
| 5855.000     | Peak                         | 46.93                                   | 9.44         | 56.37                        | 110.80                       | -54.43       |
| 5875.000     | Peak                         | 45.85                                   | 9.50         | 55.35                        | 105.20                       | -49.85       |
| 5925.000     | Peak                         | 45.53                                   | 9.65         | 55.18                        | 68.20                        | -13.02       |
| 5965.760     | Peak                         | 47.28                                   | 9.70         | 56.98                        | 68.20                        | -11.22       |

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## 12 TRANSMISSION IN THE ABSENCE OF DATA

### 12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

### 12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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## 13 ANTENNA REQUIREMENT

### 13.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### 13.2 Antenna Connected Construction

The antenna is designed with unique RF connector and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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