

ELECTROMAGNETIC EMISSIONS  
COMPLIANCE REPORT

## CLASS II PC REPORT

**Applicant:** Acer Incorporated  
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City  
22181, Taiwan (R.O.C)

**Product Name:** 2TX 11ax (WiFi6) + BLE Combo Card

**Brand Name:** acer

**Model No.:** MT7921

**Model Difference:** N/A

**Report Number:** E2/2021/80020

**FCC ID** HLZMT7921

**Issue Date:** October 7, 2021

**Date of Test:** August 19, 2021 ~ September 15, 2021

**Date of EUT Received:** August 13, 2021

Approved By

  
Jazz Huang

## 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  |
|---------------|----------|-------------|-----------------|-------------|
| E2/2021/80020 | 00       | Original    | October 7, 2021 | Ariel Chang |

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## 1 GENERAL INFORMATION

### 1.1 Product Description

|                             |                                                                                                                         |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Product Name                | Notebook Computer                                                                                                       |
| Brand Name                  | <i>acer</i>                                                                                                             |
| Model No. of FCC Host       | N21Q5                                                                                                                   |
| Model No. of IC Host        | CB514-2H,CB514-2HT                                                                                                      |
| Model Difference            | For the marketing purpose, only different model designations on the marking plate for different markets. No RF concern. |
| Hardware Version            | N/A                                                                                                                     |
| Software Version            | N/A                                                                                                                     |
| EUT Series No.              | N8AS2WW0011190E3AA7600                                                                                                  |
| Model No. of BT/WLAN Module | MT7921                                                                                                                  |
| Class II Permissive change  | 2TX 11ax (WiFi6) + BLE Combo Card installed in Notebook Computer                                                        |
| Power Supply                | 11.25Vdc from Rechargeable Li-polymer Battery or 19Vdc from AC/DC Adapter                                               |

### 1.2 Modulation & Data Rate

|                  |                                    |
|------------------|------------------------------------|
| Modulation type: | 64QAM, 16QAM, QPSK, BPSK for OFDM  |
|                  | 256QAM for OFDM in 802.11ac only   |
|                  | 1024QAM for OFDMA in 802.11ax only |
| Transition Rate: | 802.11 a: 6 - 54 Mbps              |
|                  | 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 |
|                  | 802.11 ax_20MHz: 8.6 - 286.8 Mbps  |
|                  | 802.11 ax_40MHz: 17.2 - 573.6 Mbps |
|                  | 802.11 ax_80MHz: 36 - 1201 Mbps    |

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### 1.3 Antenna Designation

| Antenna Type | Supplier | Antenna Part No.           | Main / Aux | Freq. (MHz) | Peak Antenna Gain (dBi) | Worst Antenna Gain |
|--------------|----------|----------------------------|------------|-------------|-------------------------|--------------------|
| PIFA         | WNC      | DQ6K15G5900(81EAB K15.G59) | Main       | 5150~5250   | 3.49                    | V                  |
|              |          |                            |            | 5250~5350   | 3.52                    | V                  |
|              |          |                            |            | 5470~5725   | 3.05                    |                    |
|              |          |                            |            | 5725~5850   | 2.94                    |                    |
|              |          | DQ6K15G5900(81EAB K15.G59) | Aux        | 5150~5250   | 2.98                    |                    |
|              |          |                            |            | 5250~5350   | 2.98                    |                    |
|              |          |                            |            | 5470~5725   | 3.34                    | V                  |
|              |          |                            |            | 5725~5850   | 3.34                    | V                  |

Note:

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

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## 1.4 FCC

### WLAN 5 GHz

| Wi-Fi                               | Frequency Range | Channels | Rated Power(Avg)<br>(dBm) (Worst Case) | Modulation<br>Technology |
|-------------------------------------|-----------------|----------|----------------------------------------|--------------------------|
| a<br>n_HT<br>ac_VHT<br>ax_HE<br>20M | 5180~5240       | 4        | 21.80 dBm                              | OFDM                     |
|                                     | 5260~5320       | 4        | 21.86 dBm                              | OFDM                     |
|                                     | 5500~5700       | 11       | 21.90 dBm                              | OFDM                     |
|                                     | 5745~5825       | 5        | 22.88 dBm                              | OFDM                     |
| n_HT<br>ac_VHT<br>ax_HE<br>40M      | 5190~5230       | 2        | 20.66 dBm                              | OFDMA                    |
|                                     | 5270~5310       | 2        | 20.83 dBm                              | OFDMA                    |
|                                     | 5510~5670       | 5        | 20.54 dBm                              | OFDMA                    |
|                                     | 5755~5795       | 2        | 20.63 dBm                              | OFDMA                    |
| ac_VHT<br>ax_HE<br>80M              | 5210            | 1        | 17.09 dBm                              | OFDMA                    |
|                                     | 5290            | 1        | 17.38 dBm                              | OFDMA                    |
|                                     | 5530~5610       | 2        | 19.59 dBm                              | OFDMA                    |
|                                     | 5775            | 1        | 19.44 dBm                              | OFDMA                    |

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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    |                        |                   |
| <b>Note:</b> 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. |                                                                                           |                |                        |                   |

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## 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.

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## 2.5 Test Configuration

Fig. 2-1 Radiated Emission



Fig. 2-2 Conducted (Antenna Port) Configuration



## 2.6 Control Unit(s)

| Item | Equipment          | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------|-----------|----------------|------------|------------|------------|
| 1    | WLAN Test Software | N/A       | N/A            | N/A        | N/A        | N/A        |
| 2    | Adapter            | N/A       | N/A            | N/A        | N/A        | N/A        |

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### 3 SUMMARY OF TEST RESULT

| FCC Rules                        | Description Of Test            | Result    |
|----------------------------------|--------------------------------|-----------|
| §15.407(a)                       | Maximum Conducted Output Power | Compliant |
| §15.205<br>§15.209<br>§15.407(b) | Undesirable Radiated Emissions | 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 |            | 160 M |            |
|------|------------|------|------------|------|------------|-------|------------|
| CH   | Freq (MHz) | CH   | Freq (MHz) | CH   | Freq (MHz) | CH    | Freq (MHz) |
| 52   | 5260       | 54   | 5270       | 58   | 5290       | 50    | 5250       |
| 56   | 5280       | 62   | 5310       |      |            |       |            |
| 60   | 5300       |      |            |      |            |       |            |
| 64   | 5320       |      |            |      |            |       |            |

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

| 20 M |            | 40 M |            | 80 M |            | 160 M |            |
|------|------------|------|------------|------|------------|-------|------------|
| CH   | Freq (MHz) | CH   | Freq (MHz) | CH   | Freq (MHz) | CH    | Freq (MHz) |
| 100  | 5500       | 102  | 5510       | 106  | 5530       | 114   | 5570       |
| 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            |
|-----------------------------------------------|-----------------------------------------|-----------------------------------------|------------------------------|------------------------------|-------------------------------|------------------------------------------|
| <input checked="" type="checkbox"/> 802.11 a  | <input checked="" type="checkbox"/> Ch0 | <input checked="" type="checkbox"/> Ch1 | <input type="checkbox"/> Ch2 | <input type="checkbox"/> Ch3 | <input type="checkbox"/> 1TX  | <input checked="" type="checkbox"/> 2TX  |
| <input checked="" type="checkbox"/> 802.11 n  | <input checked="" type="checkbox"/> Ch0 | <input checked="" type="checkbox"/> Ch1 | <input type="checkbox"/> Ch2 | <input type="checkbox"/> Ch3 | <input type="checkbox"/> SISO | <input checked="" type="checkbox"/> MIMO |
| <input checked="" type="checkbox"/> 802.11 ac | <input checked="" type="checkbox"/> Ch0 | <input checked="" type="checkbox"/> Ch1 | <input type="checkbox"/> Ch2 | <input type="checkbox"/> Ch3 | <input type="checkbox"/> SISO | <input checked="" type="checkbox"/> MIMO |
| <input checked="" type="checkbox"/> 802.11 ax | <input checked="" type="checkbox"/> Ch0 | <input checked="" type="checkbox"/> Ch1 | <input type="checkbox"/> Ch2 | <input type="checkbox"/> Ch3 | <input type="checkbox"/> SISO | <input checked="" type="checkbox"/> MIMO |

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4. Observations have been done for 802.11 ax available RU configurations below and found that the lowest, highest and Full RU results higher emissions.  
Only one RU can be enabled at any given time.

| 802.11ax                      | 20MHz      |                  |             |                    | 802.11ax                      | 40MHz      |              |             |                    |
|-------------------------------|------------|------------------|-------------|--------------------|-------------------------------|------------|--------------|-------------|--------------------|
| RU type                       | 26-tone RU |                  | 52-tone RU  |                    | RU type                       | 26-tone RU |              | 52-tone RU  |                    |
| RU index and subcarrier range | RU0        | [-121: -96]      | RU37        | [-121: -70]        | RU index and subcarrier range | RU0        | [-243: -218] | RU37        | [-243: -192]       |
|                               | RU1        | [-95: -70]       | RU38        | [-68: -17]         |                               | RU1        | [-217: -192] | RU38        | [-189: -138]       |
|                               | RU2        | [-68: -43]       | RU39        | [17: 68]           |                               | RU2        | [-189: -164] | RU39        | [-109: -58]        |
|                               | RU3        | [-42: -17]       | RU40        | [70: 121]          |                               | RU3        | [-163: -138] | RU40        | [-55: -4]          |
|                               | RU4        | [-16: -4, 4: 16] | RU41        | N/A                |                               | RU4        | [-136: -111] | RU41        | [4: 55]            |
|                               | RU5        | [17: 42]         | RU42        | N/A                |                               | RU5        | [-109: -84]  | RU42        | [58: 109]          |
|                               | RU6        | [43: 68]         | RU43        | N/A                |                               | RU6        | [-83: -58]   | RU43        | [138: 189]         |
|                               | RU7        | [70: 95]         | RU44        | N/A                |                               | RU7        | [-55: -30]   | RU44        | [192: 243]         |
|                               | RU8        | [96: 121]        | RU45        | N/A                |                               | RU8        | [-29: -4]    | RU45        | N/A                |
|                               | RU9        | N/A              | RU46        | N/A                |                               | RU9        | [4: 29]      | RU46        | N/A                |
|                               | RU10       | N/A              | RU47        | N/A                |                               | RU10       | [30: 55]     | RU47        | N/A                |
|                               | RU11       | N/A              | RU48        | N/A                |                               | RU11       | [58: 83]     | RU48        | N/A                |
|                               | RU12       | N/A              | RU49        | N/A                |                               | RU12       | [84: 109]    | RU49        | N/A                |
|                               | RU13       | N/A              | RU50        | N/A                |                               | RU13       | [111: 136]   | RU50        | N/A                |
|                               | RU14       | N/A              | RU51        | N/A                |                               | RU14       | [138: 163]   | RU51        | N/A                |
|                               | RU15       | N/A              | RU52        | N/A                |                               | RU15       | [164: 189]   | RU52        | N/A                |
|                               | RU16       | N/A              |             |                    |                               | RU16       | [192: 217]   |             |                    |
|                               | RU17       | N/A              | 106-tone RU |                    |                               | RU17       | [218: 243]   | 106-tone RU |                    |
|                               | RU18       | N/A              | RU53        | [-122: -17]        |                               | RU18       | N/A          | RU53        | [-243: -138]       |
|                               | RU19       | N/A              | RU54        | [17: 122]          |                               | RU19       | N/A          | RU54        | [-109: -4]         |
|                               | RU20       | N/A              | RU55        | N/A                |                               | RU20       | N/A          | RU55        | [4: 109]           |
|                               | RU21       | N/A              | RU56        | N/A                |                               | RU21       | N/A          | RU56        | [138: 243]         |
|                               | RU22       | N/A              | RU57        | N/A                |                               | RU22       | N/A          | RU57        | N/A                |
|                               | RU23       | N/A              | RU58        | N/A                |                               | RU23       | N/A          | RU58        | N/A                |
|                               | RU24       | N/A              | RU59        | N/A                |                               | RU24       | N/A          | RU59        | N/A                |
|                               | RU25       | N/A              | RU60        | N/A                |                               | RU25       | N/A          | RU60        | N/A                |
|                               | RU26       | N/A              |             |                    |                               | RU26       | N/A          |             |                    |
|                               | RU27       | N/A              | 242-tone RU |                    |                               | RU27       | N/A          | 242-tone RU |                    |
|                               | RU28       | N/A              | RU61        | [-122: -2, 2: 122] |                               | RU28       | N/A          | RU61        | [-244: -3]         |
|                               | RU29       | N/A              | RU62        | N/A                |                               | RU29       | N/A          | RU62        | [3: 244]           |
|                               | RU30       | N/A              | RU63        | N/A                |                               | RU30       | N/A          | RU63        | N/A                |
|                               | RU31       | N/A              | RU64        | N/A                |                               | RU31       | N/A          | RU64        | N/A                |
|                               | RU32       | N/A              |             |                    |                               | RU32       | N/A          |             |                    |
|                               | RU33       | N/A              |             |                    |                               | RU33       | N/A          | 484-tone RU |                    |
|                               | RU34       | N/A              |             |                    |                               | RU34       | N/A          | RU65        | [-244: -3, 3: 244] |
|                               | RU35       | N/A              |             |                    |                               | RU35       | N/A          | RU66        | N/A                |
| RU36                          | N/A        |                  |             | RU36               | N/A                           |            |              |             |                    |

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| 802.11ax                      | 80MHz      |                  |             |                    |
|-------------------------------|------------|------------------|-------------|--------------------|
| RU type                       | 26-tone RU |                  | 52-tone RU  |                    |
| RU index and subcarrier range | RU0        | [-499: -474]     | RU37        | [-499: -448]       |
|                               | RU1        | [-473: -448]     | RU38        | [-445: -394]       |
|                               | RU2        | [-445: -420]     | RU39        | [-365: -314]       |
|                               | RU3        | [-419: -394]     | RU40        | [-311: -260]       |
|                               | RU4        | [-392: -367]     | RU41        | [-257: -206]       |
|                               | RU5        | [-365: -340]     | RU42        | [-203: -152]       |
|                               | RU6        | [-339: -314]     | RU43        | [-123: -72]        |
|                               | RU7        | [-311: -286]     | RU44        | [-69: -18]         |
|                               | RU8        | [-285: -260]     | RU45        | [18: 69]           |
|                               | RU9        | [-257: -232]     | RU46        | [72: 123]          |
|                               | RU10       | [-231: -206]     | RU47        | [152: 203]         |
|                               | RU11       | [-203: -178]     | RU48        | [206: 257]         |
|                               | RU12       | [-177: -152]     | RU49        | [260: 311]         |
|                               | RU13       | [-150: -125]     | RU50        | [314: 365]         |
|                               | RU14       | [-123: -98]      | RU51        | [394: 445]         |
|                               | RU15       | [-97: -72]       | RU52        | [448: 499]         |
|                               | RU16       | [-69: -44]       | 106-tone RU |                    |
|                               | RU17       | [-43: -18]       | RU53        | [-499: -394]       |
|                               | RU18       | [-16: -4, 4: 16] | RU54        | [-365: -260]       |
|                               | RU19       | [18: 43]         | RU55        | [-257: -152]       |
|                               | RU20       | [44: 69]         | RU56        | [-123: -18]        |
|                               | RU21       | [72: 97]         | RU57        | [18: 123]          |
|                               | RU22       | [98: 123]        | RU58        | [152: 257]         |
|                               | RU23       | [125: 150]       | RU59        | [260: 365]         |
|                               | RU24       | [152: 177]       | RU60        | [394: 499]         |
|                               | RU25       | [178: 203]       | 242-tone RU |                    |
|                               | RU26       | [206: 231]       | RU61        | [-500: -259]       |
|                               | RU27       | [232: 257]       | RU62        | [-258: -17]        |
|                               | RU28       | [260: 285]       | RU63        | [17: 258]          |
|                               | RU29       | [286: 311]       | RU64        | [259: 500]         |
|                               | RU30       | [314: 339]       | 484-tone RU |                    |
|                               | RU31       | [340: 365]       | RU65        | [-500: -17]        |
|                               | RU32       | [367: 392]       | RU66        | [17: 500]          |
|                               | RU33       | [394: 419]       | 996-tone RU |                    |
|                               | RU34       | [420: 445]       | RU67        | [-500: -3, 3: 500] |
|                               | RU35       | [448: 473]       |             |                    |
|                               | RU36       | [474: 499]       |             |                    |

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5. 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 (ABOVE 1 GHz) |                      |                   |                |            |                  |              |
|--------------------------------------|----------------------|-------------------|----------------|------------|------------------|--------------|
| MODE                                 | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11a                              | 5180~5240            | 36 to 48          | 36,44,48       | OFDM       | 6                | 2TX          |
|                                      | 5260~5320            | 52 to 64          | 52,60,64       |            |                  |              |
|                                      | 5500~5700            | 100 to 140        | 100,116,140    |            |                  |              |
|                                      | 5745~5825            | 149 to 165        | 149,157,165    |            |                  |              |

| CONDUCTED TEST |                      |                   |                |            |                  |              |
|----------------|----------------------|-------------------|----------------|------------|------------------|--------------|
| MODE           | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11a        | 5180~5240            | 36 to 48          | 36,44,48       | OFDM       | 6                | 2TX          |
|                | 5260~5320            | 52 to 64          | 52,60,64       |            |                  |              |
|                | 5500~5700            | 100 to 140        | 100,116,140    |            |                  |              |
|                | 5745~5825            | 149 to 165        | 149,157,165    |            |                  |              |
| 802.11ac_VHT20 | 5180~5240            | 36 to 48          | 36,44,48       | OFDM       | MCS0             | 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    |            |                  |              |
| 802.11ac_VHT40 | 5190~5230            | 38 to 46          | 38,46          | OFDM       | MCS0             | 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            |            |                  |              |

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| CONDUCTED TEST |                      |                   |                |            |                 |                  |              |
|----------------|----------------------|-------------------|----------------|------------|-----------------|------------------|--------------|
| MODE           | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | RU CONFIGURATIO | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11ax_HE20  | 5180~5240            | 36 to 48          | 36,44,48       | OFDMA      | FULL RU         | MCS0             | 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    |            |                 |                  |              |
| 802.11ax_HE40  | 5190~5230            | 38 to 46          | 38,46          | OFDMA      | FULL RU         | MCS0             | MIMO         |
|                | 5270~5310            | 54 to 62          | 54,62          |            |                 |                  |              |
|                | 5510~5670            | 102 to 134        | 102,110,134    |            |                 |                  |              |
|                | 5755~5795            | 151 to 159        | 151,159        |            |                 |                  |              |
| 802.11ax_HE80  | 5210                 | 42                | 42             | OFDMA      | FULL RU         | MCS0             | MIMO         |
|                | 5290                 | 58                | 58             |            |                 |                  |              |
|                | 5530~5610            | 106 to 122        | 106,122        |            |                 |                  |              |
|                | 5775                 | 155               | 155            |            |                 |                  |              |

### Note:

The field strength of radiation emission was measured as EUT three orthogonal planes, E1 / E2 / H, are positioned to pre-scan the emission generating the highest one. The worst position is tested and recorded.

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## 5 MEASUREMENT UNCERTAINTY

| Test Items                              | Uncertainty |
|-----------------------------------------|-------------|
| AC Power Line Conducted Emission        | +/- 2.34 dB |
| Emission Bandwidth                      | +/- 1.53 Hz |
| The Maximum Output Power Measurement    | +/- 1 dB    |
| Peak Power Spectral Density Measurement | +/- 1.53 dB |
| Frequency Stability                     | +/- 1.53 Hz |
| Temperature                             | +/- 0.4 °C  |
| Humidity                                | +/- 3.5 %   |
| DC / AC Power Source                    | +/- 1 %     |

| Radiated Spurious Emission Measurement Uncertainty |     |         |                 |
|----------------------------------------------------|-----|---------|-----------------|
| Polarization: Vertical                             | +/- | 2.64 dB | 9kHz~30MHz      |
|                                                    | +/- | 4.93 dB | 30MHz - 1000MHz |
|                                                    | +/- | 4.81 dB | 1GHz - 18GHz    |
|                                                    | +/- | 4.52 dB | 18GHz - 40GHz   |
| Polarization: Horizontal                           | +/- | 2.64 dB | 9kHz~30MHz      |
|                                                    | +/- | 4.45 dB | 30MHz - 1000MHz |
|                                                    | +/- | 4.81 dB | 1GHz - 18GHz    |
|                                                    | +/- | 4.52 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 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 6.1 Standard Applicable

#### 6.1.1 Output Power

##### FCC

| Band     | EUT CATEGORY                        |                      | LIMIT                             |                                                |                                    |                                       |
|----------|-------------------------------------|----------------------|-----------------------------------|------------------------------------------------|------------------------------------|---------------------------------------|
|          |                                     |                      | Conducted Output Power            | EIRP                                           | TPC                                | Antenna Directional Gain Requirements |
| U-NII-1  | <input type="checkbox"/>            | Fixed point-to-point | 1 Watt(30dBm)                     | Not required                                   | Not required                       | 23dBi                                 |
|          | <input type="checkbox"/>            | Out door AP          | 1 Watt(30dBm)                     | Elevation angle above 30 degrees 125mW (21dBm) | Not required                       | 6dBi                                  |
|          | <input type="checkbox"/>            | Indoor AP            | 1 Watt(30dBm)                     | Not required                                   | Not required                       | 6dBi                                  |
|          | <input checked="" type="checkbox"/> | Other (Client)       | 250mW(23.98dBm)                   | Not required                                   | Not required                       | 6dBi                                  |
| U-NII-2A | <input checked="" type="checkbox"/> | Other                | 250mW(23.98dBm) or 11dBm+10 log B | Not required                                   | When EIRP >500mW                   | 6dBi                                  |
| U-NII-2C | <input checked="" type="checkbox"/> | Other                | 250mW(23.98dBm) or 11dBm+10 log B | Not required                                   | At least 6dB below EIRP 1W (30dBm) | 6dBi                                  |
| U-NII-3  | <input checked="" type="checkbox"/> | Other                | 1 Watt(30dBm)                     | Not required                                   | Not required                       | 6dBi                                  |
|          | <input type="checkbox"/>            | Fixed point-to-point | 1 Watt(30dBm)                     | Not required                                   | Not required                       | Not required                          |

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

### 6.2 Measurement Equipment Used

#### 6.2.1 Output Power

| Conducted Emission Test Site: Conducted G |           |               |               |            |            |
|-------------------------------------------|-----------|---------------|---------------|------------|------------|
| EQUIPMENT TYPE                            | MFR       | MODEL NUMBER  | SERIAL NUMBER | LAST CAL.  | CAL DUE.   |
| Power Meter                               | Anritsu   | ML2496A       | 1326001       | 08/12/2021 | 08/11/2022 |
| Power Sensor                              | Anritsu   | MA2411B       | 1315048       | 08/12/2021 | 08/11/2022 |
| Power Sensor                              | Anritsu   | MA2411B       | 1315049       | 08/12/2021 | 08/11/2022 |
| Attenuator                                | Marvelous | WATT-218FS-10 | RF18          | 11/19/2020 | 11/18/2021 |
| Attenuator                                | Marvelous | WATT-218FS-10 | RF23          | 11/19/2020 | 11/18/2021 |

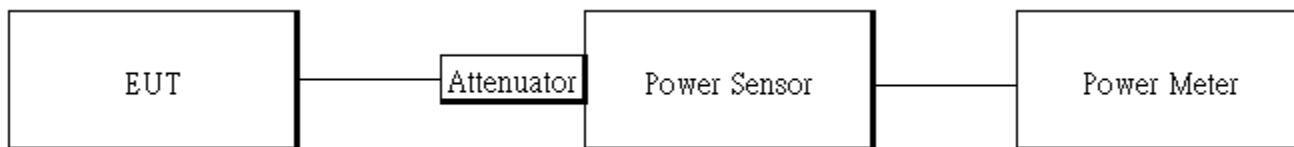
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## 6.3 Test Set-up

### 6.3.1 Output Power



## 6.4 Measurement Procedure

### 6.4.1 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.

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## 6.5 Output Power Measurement Result

### 6.5.1 FCC Output power

#### 802.11a\_Ch0

| CH  | Frequency (MHz) | Data Rate | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|-------------------|------------------|----------------------|--------|
| 36  | 5180            | 6         | 9         | 12.01             | 15.877           | 23.98                | PASS   |
| 44  | 5220            | 6         | 9         | 12.05             | 16.024           | 23.98                | PASS   |
| 48  | 5240            | 6         | 9         | 11.90             | 15.480           | 23.98                | PASS   |
| 52  | 5260            | 6         | 11        | 14.82             | 30.323           | 23.98                | PASS   |
| 60  | 5300            | 6         | 11        | 14.67             | 29.294           | 23.98                | PASS   |
| 64  | 5320            | 6         | 11        | 14.71             | 29.565           | 23.98                | PASS   |
| 100 | 5500            | 6         | 13.5      | 16.40             | 43.629           | 23.98                | PASS   |
| 116 | 5580            | 6         | 16.5      | 19.02             | 79.758           | 23.98                | PASS   |
| 140 | 5700            | 6         | 13.5      | 16.69             | 46.642           | 23.98                | PASS   |
| 149 | 5745            | 6         | 17        | 19.90             | 97.673           | 30                   | PASS   |
| 157 | 5785            | 6         | 17        | 19.76             | 94.574           | 30                   | PASS   |
| 165 | 5825            | 6         | 17.5      | 19.93             | 98.350           | 30                   | PASS   |

#### 802.11a\_Ch1

| CH  | Frequency (MHz) | Data Rate | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|-------------------|------------------|----------------------|--------|
| 36  | 5180            | 6         | 9.5       | 11.81             | 15.163           | 23.98                | PASS   |
| 44  | 5220            | 6         | 9.5       | 11.73             | 14.886           | 23.98                | PASS   |
| 48  | 5240            | 6         | 9.5       | 11.90             | 15.480           | 23.98                | PASS   |
| 52  | 5260            | 6         | 12        | 14.67             | 29.294           | 23.98                | PASS   |
| 60  | 5300            | 6         | 12        | 14.62             | 28.958           | 23.98                | PASS   |
| 64  | 5320            | 6         | 12        | 14.59             | 28.759           | 23.98                | PASS   |
| 100 | 5500            | 6         | 14.5      | 16.38             | 43.428           | 23.98                | PASS   |
| 116 | 5580            | 6         | 17.5      | 18.57             | 71.907           | 23.98                | PASS   |
| 140 | 5700            | 6         | 15        | 16.64             | 46.108           | 23.98                | PASS   |
| 149 | 5745            | 6         | 18        | 19.62             | 91.574           | 30                   | PASS   |
| 157 | 5785            | 6         | 18        | 19.74             | 94.140           | 30                   | PASS   |
| 165 | 5825            | 6         | 18        | 19.78             | 95.011           | 30                   | PASS   |

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## 802.11a\_2TX

| CH  | Frequency (MHz) | Data Rate | Power set | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |           | CH 0             | CH 1  |                   |                  |                      |        |
| 36  | 5180            | 6         | 9         | 11.01            | 12.56 | 14.95             | 31.261           | 23.98                | PASS   |
| 44  | 5220            | 6         | 9         | 10.99            | 12.65 | 15.00             | 31.623           | 23.98                | PASS   |
| 48  | 5240            | 6         | 9         | 10.78            | 12.79 | 15.00             | 31.623           | 23.98                | PASS   |
| 52  | 5260            | 6         | 11        | 14.39            | 14.96 | 17.78             | 59.979           | 23.98                | PASS   |
| 60  | 5300            | 6         | 11        | 14.15            | 14.97 | 17.68             | 58.614           | 23.98                | PASS   |
| 64  | 5320            | 6         | 11        | 14.18            | 15.02 | 17.72             | 59.156           | 23.98                | PASS   |
| 100 | 5500            | 6         | 12        | 15.41            | 17.15 | 19.46             | 88.308           | 23.98                | PASS   |
| 116 | 5580            | 6         | 15.5      | 18.4             | 19.17 | 21.90             | 154.882          | 23.98                | PASS   |
| 140 | 5700            | 6         | 13        | 15.65            | 17.44 | 19.73             | 93.972           | 23.98                | PASS   |
| 149 | 5745            | 6         | 16        | 19.58            | 19.75 | 22.76             | 188.799          | 30                   | PASS   |
| 157 | 5785            | 6         | 16.5      | 19.35            | 20.08 | 22.83             | 191.867          | 30                   | PASS   |
| 165 | 5825            | 6         | 16.5      | 19.14            | 20.34 | 22.88             | 194.089          | 30                   | PASS   |

## 802.11ac\_VHT20\_Ch0

| CH  | Frequency (MHz) | Data Rate | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|-------------------|------------------|----------------------|--------|
| 36  | 5180            | MCS0      | 10        | 11.87             | 15.391           | 23.98                | PASS   |
| 44  | 5220            | MCS0      | 10        | 11.93             | 15.605           | 23.98                | PASS   |
| 48  | 5240            | MCS0      | 10        | 11.80             | 15.145           | 23.98                | PASS   |
| 52  | 5260            | MCS0      | 12.5      | 14.54             | 28.463           | 23.98                | PASS   |
| 60  | 5300            | MCS0      | 12.5      | 14.58             | 28.726           | 23.98                | PASS   |
| 64  | 5320            | MCS0      | 13        | 14.49             | 28.137           | 23.98                | PASS   |
| 100 | 5500            | MCS0      | 15.5      | 16.93             | 49.349           | 23.98                | PASS   |
| 116 | 5580            | MCS0      | 18        | 18.70             | 74.178           | 23.98                | PASS   |
| 140 | 5700            | MCS0      | 14        | 15.91             | 39.019           | 23.98                | PASS   |
| 149 | 5745            | MCS0      | 16.5      | 18.53             | 71.331           | 30                   | PASS   |
| 157 | 5785            | MCS0      | 17        | 18.48             | 70.514           | 30                   | PASS   |
| 165 | 5825            | MCS0      | 17.5      | 18.69             | 74.008           | 30                   | PASS   |

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## 802.11ac\_VHT20\_Ch1

| CH  | Frequency (MHz) | Data Rate | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|-------------------|------------------|----------------------|--------|
| 36  | 5180            | MCS0      | 11        | 11.54             | 14.265           | 23.98                | PASS   |
| 44  | 5220            | MCS0      | 11        | 11.65             | 14.631           | 23.98                | PASS   |
| 48  | 5240            | MCS0      | 11        | 11.46             | 14.005           | 23.98                | PASS   |
| 52  | 5260            | MCS0      | 13.5      | 14.34             | 27.182           | 23.98                | PASS   |
| 60  | 5300            | MCS0      | 13.5      | 14.30             | 26.932           | 23.98                | PASS   |
| 64  | 5320            | MCS0      | 14        | 14.37             | 27.370           | 23.98                | PASS   |
| 100 | 5500            | MCS0      | 16.5      | 16.29             | 42.587           | 23.98                | PASS   |
| 116 | 5580            | MCS0      | 19.5      | 18.39             | 69.068           | 23.98                | PASS   |
| 140 | 5700            | MCS0      | 16.5      | 15.90             | 38.929           | 23.98                | PASS   |
| 149 | 5745            | MCS0      | 19        | 18.14             | 65.204           | 30                   | PASS   |
| 157 | 5785            | MCS0      | 19        | 18.16             | 65.505           | 30                   | PASS   |
| 165 | 5825            | MCS0      | 18.5      | 18.13             | 65.054           | 30                   | 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 |
|-----|-----------------|-----------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |           | CH 0             | CH 1  |                   |                  |                      |        |
| 36  | 5180            | MCS0      | 10        | 11.01            | 12    | 14.77             | 29.992           | 23.98                | PASS   |
| 44  | 5220            | MCS0      | 10        | 10.98            | 12.34 | <b>14.95</b>      | 31.261           | 23.98                | PASS   |
| 48  | 5240            | MCS0      | 10        | 10.52            | 12.3  | 14.73             | 29.717           | 23.98                | PASS   |
| 52  | 5260            | MCS0      | 12.5      | 13.88            | 14.51 | 17.44             | 55.463           | 23.98                | PASS   |
| 60  | 5300            | MCS0      | 12.5      | 13.92            | 14.63 | <b>17.52</b>      | 56.494           | 23.98                | PASS   |
| 64  | 5320            | MCS0      | 12        | 13.76            | 14.68 | 17.48             | 55.976           | 23.98                | PASS   |
| 100 | 5500            | MCS0      | 14        | 15.79            | 16.93 | 19.63             | 91.833           | 23.98                | PASS   |
| 116 | 5580            | MCS0      | 17        | 18.17            | 18.56 | <b>21.60</b>      | 144.544          | 23.98                | PASS   |
| 140 | 5700            | MCS0      | 14        | 14.14            | 16.92 | 18.98             | 79.068           | 23.98                | PASS   |
| 149 | 5745            | MCS0      | 16.5      | 18.17            | 18.28 | 21.46             | 139.959          | 30                   | PASS   |
| 157 | 5785            | MCS0      | 16.5      | 18.06            | 18.39 | 21.46             | 139.959          | 30                   | PASS   |
| 165 | 5825            | MCS0      | 16.5      | 17.7             | 18.73 | <b>21.48</b>      | 140.605          | 30                   | PASS   |

## 802.11ac\_VHT40\_Ch0

| CH  | Frequency (MHz) | Data Rate | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|-------------------|------------------|----------------------|--------|
| 38  | 5190            | MCS0      | 14.5      | 14.67             | 29.306           | 23.98                | PASS   |
| 46  | 5230            | MCS0      | 14.5      | 14.76             | 29.920           | 23.98                | PASS   |
| 54  | 5270            | MCS0      | 14.5      | 14.71             | 29.577           | 23.98                | PASS   |
| 62  | 5310            | MCS0      | 14.5      | 14.68             | 29.374           | 23.98                | PASS   |
| 102 | 5510            | MCS0      | 15        | 14.92             | 31.043           | 23.98                | PASS   |
| 110 | 5550            | MCS0      | 17.5      | 17.34             | 54.195           | 23.98                | PASS   |
| 134 | 5670            | MCS0      | 17        | 17.40             | 54.949           | 23.98                | PASS   |
| 151 | 5755            | MCS0      | 16.5      | 17.34             | 54.195           | 30                   | PASS   |
| 159 | 5795            | MCS0      | 17        | 17.41             | 55.076           | 30                   | PASS   |

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## 802.11ac\_VHT40\_Ch1

| CH  | Frequency (MHz) | Data Rate | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|-------------------|------------------|----------------------|--------|
| 38  | 5190            | MCS0      | 14.5      | 14.44             | 27.794           | 23.98                | PASS   |
| 46  | 5230            | MCS0      | 14.5      | 14.51             | 28.246           | 23.98                | PASS   |
| 54  | 5270            | MCS0      | 14.5      | 14.40             | 27.540           | 23.98                | PASS   |
| 62  | 5310            | MCS0      | 14.5      | 14.32             | 27.037           | 23.98                | PASS   |
| 102 | 5510            | MCS0      | 15        | 14.73             | 29.714           | 23.98                | PASS   |
| 110 | 5550            | MCS0      | 17.5      | 16.77             | 47.529           | 23.98                | PASS   |
| 134 | 5670            | MCS0      | 18        | 17.19             | 52.355           | 23.98                | PASS   |
| 151 | 5755            | MCS0      | 19        | 17.32             | 53.946           | 30                   | PASS   |
| 159 | 5795            | MCS0      | 19        | 17.13             | 51.637           | 30                   | PASS   |

## 802.11ac\_VHT40\_MIMO

| CH  | Frequency (MHz) | Data Rate | Power set | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |           | CH 0             | CH 1  |                   |                  |                      |        |
| 38  | 5190            | MCS0      | 11        | 11.38            | 11.86 | 15.05             | 31.989           | 23.98                | PASS   |
| 46  | 5230            | MCS0      | 12        | 11.08            | 12.12 | 15.05             | 31.989           | 23.98                | PASS   |
| 54  | 5270            | MCS0      | 13.5      | 13.62            | 14.89 | 17.72             | 59.156           | 23.98                | PASS   |
| 62  | 5310            | MCS0      | 13.5      | 13.44            | 14.82 | 17.60             | 57.544           | 23.98                | PASS   |
| 102 | 5510            | MCS0      | 15        | 14.68            | 14.72 | 18.12             | 64.863           | 23.98                | PASS   |
| 110 | 5550            | MCS0      | 16        | 15.46            | 17.68 | 20.13             | 103.039          | 23.98                | PASS   |
| 134 | 5670            | MCS0      | 16        | 15.96            | 17.7  | 20.34             | 108.143          | 23.98                | PASS   |
| 151 | 5755            | MCS0      | 16.5      | 16.67            | 17.29 | 20.41             | 109.901          | 30                   | PASS   |
| 159 | 5795            | MCS0      | 16.5      | 16.32            | 17.42 | 20.32             | 107.647          | 30                   | PASS   |

## 802.11ac\_VHT80\_Ch0

| CH  | Frequency (MHz) | Data Rate | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|-------------------|------------------|----------------------|--------|
| 42  | 5210            | MCS0      | 13.5      | 14.02             | 25.210           | 23.98                | PASS   |
| 58  | 5290            | MCS0      | 13.5      | 14.11             | 25.738           | 23.98                | PASS   |
| 106 | 5530            | MCS0      | 15        | 15.12             | 32.477           | 23.98                | PASS   |
| 122 | 5610            | MCS0      | 17        | 16.32             | 42.814           | 23.98                | PASS   |
| 155 | 5775            | MCS0      | 16.5      | 16.39             | 43.509           | 30                   | PASS   |

## 802.11ac\_VHT80\_Ch1

| CH  | Frequency (MHz) | Data Rate | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|-------------------|------------------|----------------------|--------|
| 42  | 5210            | MCS0      | 13        | 13.68             | 23.312           | 23.98                | PASS   |
| 58  | 5290            | MCS0      | 13        | 13.77             | 23.800           | 23.98                | PASS   |
| 106 | 5530            | MCS0      | 14        | 14.44             | 27.770           | 23.98                | PASS   |
| 122 | 5610            | MCS0      | 17        | 16.12             | 40.887           | 23.98                | PASS   |
| 155 | 5775            | MCS0      | 17        | 16.17             | 41.360           | 30                   | PASS   |

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## 802.11ac\_VHT80\_MIMO

| CH  | Frequency (MHz) | Data Rate | Power set | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |           | CH 0             | CH 1  |                   |                  |                      |        |
| 42  | 5210            | MCS0      | 12.5      | 10.41            | 11.83 | <b>14.89</b>      | 30.832           | 23.98                | PASS   |
| 58  | 5290            | MCS0      | 14        | 12.83            | 13.97 | <b>17.15</b>      | 51.880           | 23.98                | PASS   |
| 106 | 5530            | MCS0      | 14.5      | 13.16            | 14.95 | 17.86             | 61.094           | 23.98                | PASS   |
| 122 | 5610            | MCS0      | 17        | 15.44            | 15.88 | <b>19.38</b>      | 86.696           | 23.98                | PASS   |
| 155 | 5775            | MCS0      | 17        | 15.58            | 15.71 | <b>19.36</b>      | 86.298           | 30                   | PASS   |

## 802.11ax\_HE20\_Ch0

| CH  | Frequency (MHz) | Data Rate | RU config. | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|------------|-----------|-------------------|------------------|----------------------|--------|
| 36  | 5180            | MCS0      | full       | 12        | 12.15             | 16.414           | 23.98                | PASS   |
| 44  | 5220            | MCS0      | full       | 12        | 12.23             | 16.719           | 23.98                | PASS   |
| 48  | 5240            | MCS0      | full       | 11.5      | 12.04             | 16.003           | 23.98                | PASS   |
| 52  | 5260            | MCS0      | full       | 13.5      | 14.80             | 30.214           | 23.98                | PASS   |
| 60  | 5300            | MCS0      | full       | 13.5      | 14.82             | 30.353           | 23.98                | PASS   |
| 64  | 5320            | MCS0      | full       | 13.5      | 14.73             | 29.730           | 23.98                | PASS   |
| 100 | 5500            | MCS0      | full       | 13        | 17.10             | 51.310           | 23.98                | PASS   |
| 116 | 5580            | MCS0      | full       | 16        | 18.87             | 77.126           | 23.98                | PASS   |
| 140 | 5700            | MCS0      | full       | 14        | 17.75             | 59.594           | 23.98                | PASS   |
| 149 | 5745            | MCS0      | full       | 15        | 18.83             | 76.419           | 30                   | PASS   |
| 157 | 5785            | MCS0      | full       | 15        | 18.77             | 75.370           | 30                   | PASS   |
| 165 | 5825            | MCS0      | full       | 15        | 18.89             | 77.482           | 30                   | PASS   |

## 802.11ax\_HE20\_Ch1

| CH  | Frequency (MHz) | Data Rate | RU config. | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|------------|-----------|-------------------|------------------|----------------------|--------|
| 36  | 5180            | MCS0      | full       | 13        | 11.93             | 15.603           | 23.98                | PASS   |
| 44  | 5220            | MCS0      | full       | 13        | 11.84             | 15.283           | 23.98                | PASS   |
| 48  | 5240            | MCS0      | full       | 12.5      | 11.88             | 15.424           | 23.98                | PASS   |
| 52  | 5260            | MCS0      | full       | 14.5      | 14.45             | 27.874           | 23.98                | PASS   |
| 60  | 5300            | MCS0      | full       | 14.5      | 14.48             | 28.067           | 23.98                | PASS   |
| 64  | 5320            | MCS0      | full       | 14.5      | 14.53             | 28.392           | 23.98                | PASS   |
| 100 | 5500            | MCS0      | full       | 15.5      | 16.56             | 45.311           | 23.98                | PASS   |
| 116 | 5580            | MCS0      | full       | 18.5      | 18.74             | 74.852           | 23.98                | PASS   |
| 140 | 5700            | MCS0      | full       | 16.5      | 17.40             | 54.980           | 23.98                | PASS   |
| 149 | 5745            | MCS0      | full       | 17.5      | 18.45             | 70.017           | 30                   | PASS   |
| 157 | 5785            | MCS0      | full       | 17.5      | 18.54             | 71.483           | 30                   | PASS   |
| 165 | 5825            | MCS0      | full       | 17        | 18.45             | 70.017           | 30                   | PASS   |

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## 802.11ax\_HE20\_MIMO

| CH  | Frequency (MHz) | Data Rate | RU config. | Power set | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|------------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |            |           | CH 0             | CH 1  |                   |                  |                      |        |
| 36  | 5180            | MCS0      | full       | 13        | 10.8             | 12.32 | 15.06             | 32.063           | 23.98                | PASS   |
| 44  | 5220            | MCS0      | full       | 13        | 10.57            | 12.37 | 14.99             | 31.550           | 23.98                | PASS   |
| 48  | 5240            | MCS0      | full       | 13        | 10.05            | 12.44 | 14.84             | 30.479           | 23.98                | PASS   |
| 52  | 5260            | MCS0      | full       | 16        | 14.03            | 14.51 | 17.71             | 59.020           | 23.98                | PASS   |
| 60  | 5300            | MCS0      | full       | 16        | 13.8             | 14.68 | 17.69             | 58.749           | 23.98                | PASS   |
| 64  | 5320            | MCS0      | full       | 12        | 13.76            | 14.79 | 17.74             | 59.429           | 23.98                | PASS   |
| 100 | 5500            | MCS0      | full       | 13        | 15.86            | 16.92 | 19.85             | 96.605           | 23.98                | PASS   |
| 116 | 5580            | MCS0      | full       | 20.5      | 18.3             | 18.53 | 21.85             | 153.109          | 23.98                | PASS   |
| 140 | 5700            | MCS0      | full       | 14        | 16.28            | 17.43 | 20.33             | 107.895          | 23.98                | PASS   |
| 149 | 5745            | MCS0      | full       | 19.5      | 18.01            | 18.26 | 21.57             | 143.549          | 30                   | PASS   |
| 157 | 5785            | MCS0      | full       | 19.5      | 17.84            | 18.39 | 21.56             | 143.219          | 30                   | PASS   |
| 165 | 5825            | MCS0      | full       | 20.5      | 18.73            | 19.01 | 22.30             | 169.824          | 30                   | PASS   |

## 802.11ax\_HE40\_Ch0

| CH  | Frequency (MHz) | Data Rate | RU config. | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|------------|-----------|-------------------|------------------|----------------------|--------|
| 38  | 5190            | MCS0      | full       | 14        | 14.94             | 31.169           | 23.98                | PASS   |
| 46  | 5230            | MCS0      | full       | 14        | 14.90             | 30.883           | 23.98                | PASS   |
| 54  | 5270            | MCS0      | full       | 14        | 14.84             | 30.459           | 23.98                | PASS   |
| 62  | 5310            | MCS0      | full       | 14        | 14.99             | 31.530           | 23.98                | PASS   |
| 102 | 5510            | MCS0      | full       | 14.5      | 17.08             | 51.018           | 23.98                | PASS   |
| 110 | 5550            | MCS0      | full       | 16        | 17.74             | 51.018           | 23.98                | PASS   |
| 134 | 5670            | MCS0      | full       | 15.5      | 17.57             | 57.111           | 23.98                | PASS   |
| 151 | 5755            | MCS0      | full       | 15        | 17.65             | 58.173           | 30                   | PASS   |
| 159 | 5795            | MCS0      | full       | 15        | 17.58             | 57.243           | 30                   | PASS   |

## 802.11ax\_HE40\_Ch1

| CH  | Frequency (MHz) | Data Rate | RU config. | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|------------|-----------|-------------------|------------------|----------------------|--------|
| 38  | 5190            | MCS0      | full       | 15.5      | 14.80             | 30.180           | 23.98                | PASS   |
| 46  | 5230            | MCS0      | full       | 15.5      | 14.77             | 29.972           | 23.98                | PASS   |
| 54  | 5270            | MCS0      | full       | 15.5      | 14.72             | 29.629           | 23.98                | PASS   |
| 62  | 5310            | MCS0      | full       | 15.5      | 14.68             | 29.358           | 23.98                | PASS   |
| 102 | 5510            | MCS0      | full       | 16        | 16.62             | 45.890           | 23.98                | PASS   |
| 110 | 5550            | MCS0      | full       | 17        | 17.16             | 45.890           | 23.98                | PASS   |
| 134 | 5670            | MCS0      | full       | 17.5      | 17.55             | 56.849           | 23.98                | PASS   |
| 151 | 5755            | MCS0      | full       | 17.5      | 17.56             | 56.980           | 30                   | PASS   |
| 159 | 5795            | MCS0      | full       | 17        | 17.41             | 55.045           | 30                   | PASS   |

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## 802.11ax HE40\_MIMO

| CH  | Frequency (MHz) | Data Rate | RU config. | Power set | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|------------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |            |           | CH 0             | CH 1  |                   |                  |                      |        |
| 38  | 5190            | MCS0      | full       | 13.5      | 10.96            | 12.14 | 15.00             | 31.623           | 23.98                | PASS   |
| 46  | 5230            | MCS0      | full       | 13.5      | 10.61            | 12.38 | 14.99             | 31.550           | 23.98                | PASS   |
| 54  | 5270            | MCS0      | full       | 16.5      | 13.35            | 15.39 | 17.90             | 61.660           | 23.98                | PASS   |
| 62  | 5310            | MCS0      | full       | 13        | 14.27            | 14.57 | 17.83             | 60.674           | 23.98                | PASS   |
| 102 | 5510            | MCS0      | full       | 14        | 16.18            | 16.73 | 19.87             | 97.051           | 23.98                | PASS   |
| 110 | 5550            | MCS0      | full       | 19        | 15.77            | 17.96 | 20.41             | 97.051           | 23.98                | PASS   |
| 134 | 5670            | MCS0      | full       | 19        | 16.11            | 17.96 | 20.54             | 113.240          | 23.98                | PASS   |
| 151 | 5755            | MCS0      | full       | 19        | 16.33            | 17.96 | 20.63             | 115.611          | 30                   | PASS   |
| 159 | 5795            | MCS0      | full       | 19        | 16.18            | 17.97 | 20.57             | 114.025          | 30                   | PASS   |

## 802.11ax HE80\_Ch0

| CH  | Frequency (MHz) | Data Rate | RU config. | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|------------|-----------|-------------------|------------------|----------------------|--------|
| 42  | 5210            | MCS0      | full       | 14        | 14.29             | 26.884           | 23.98                | PASS   |
| 58  | 5290            | MCS0      | full       | 14        | 14.37             | 27.384           | 23.98                | PASS   |
| 106 | 5530            | MCS0      | full       | 14        | 15.41             | 34.793           | 23.98                | PASS   |
| 122 | 5610            | MCS0      | full       | 16        | 16.71             | 46.934           | 23.98                | PASS   |
| 155 | 5775            | MCS0      | full       | 15        | 16.59             | 45.655           | 30                   | PASS   |

## 802.11ax HE80\_Ch1

| CH  | Frequency (MHz) | Data Rate | RU config. | Power set | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|------------|-----------|-------------------|------------------|----------------------|--------|
| 42  | 5210            | MCS0      | full       | 13.5      | 13.89             | 24.518           | 23.98                | PASS   |
| 58  | 5290            | MCS0      | full       | 13.5      | 14.00             | 25.147           | 23.98                | PASS   |
| 106 | 5530            | MCS0      | full       | 12.5      | 14.57             | 28.674           | 23.98                | PASS   |
| 122 | 5610            | MCS0      | full       | 15.5      | 16.20             | 41.734           | 23.98                | PASS   |
| 155 | 5775            | MCS0      | full       | 15.5      | 16.14             | 41.162           | 30                   | PASS   |

## 802.11ax HE80\_MIMO

| CH  | Frequency (MHz) | Data Rate | RU config. | Power set | Avg. POWER (dBm) |       | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-----------|------------|-----------|------------------|-------|-------------------|------------------|----------------------|--------|
|     |                 |           |            |           | CH 0             | CH 1  |                   |                  |                      |        |
| 42  | 5210            | MCS0      | full       | 13        | 10.53            | 11.83 | 14.92             | 31.046           | 23.98                | PASS   |
| 58  | 5290            | MCS0      | full       | 13.5      | 13.14            | 14.16 | 17.38             | 54.702           | 23.98                | PASS   |
| 106 | 5530            | MCS0      | full       | 13.5      | 14.01            | 14.81 | 18.12             | 64.863           | 23.98                | PASS   |
| 122 | 5610            | MCS0      | full       | 18        | 14.26            | 17.08 | 19.59             | 90.991           | 23.98                | PASS   |
| 155 | 5775            | MCS0      | full       | 18.5      | 15.2             | 16.23 | 19.44             | 87.902           | 30                   | PASS   |

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## 7 UNDESIRABLE RADIATED EMISSION MEASUREMENT

### 7.1 Standard Applicable

#### 7.1.1 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 |
| *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. |                                                                                         |                                                                                              |

$EIRP = (E \cdot d)^2 / 30$ , 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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### 7.1.2 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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## 7.2 Measurement Equipment Used

| Radiated Emission Test Site: SAC G |                 |                             |                              |            |            |
|------------------------------------|-----------------|-----------------------------|------------------------------|------------|------------|
| EQUIPMENT TYPE                     | MFR             | MODEL NUMBER                | SERIAL NUMBER                | LAST CAL.  | CAL DUE.   |
| Broadband Antenna                  | SCHWAZBECK      | VULB 9168                   | 1206                         | 02/22/2021 | 02/21/2022 |
| Horn Antenna                       | Schwarzbeck     | DRH18-E                     | 210105A18E                   | 04/09/2021 | 04/08/2022 |
| Horn Antenna                       | Schwarzbeck     | BBHA9170                    | 184                          | 12/11/2020 | 12/10/2021 |
| Loop Antenna                       | ETS.LINDGREN    | 6502                        | 143303                       | 05/07/2021 | 05/06/2022 |
| 3m Site NSA                        | SGS             | 966 chamber G               | N/A                          | 03/30/2021 | 03/29/2022 |
| Spectrum Analyzer                  | KEYSIGHT        | N9010A                      | MY57120290                   | 04/06/2021 | 04/05/2022 |
| Pre-Amplifier                      | EMC Instruments | EMC0011830                  | 980199                       | 11/19/2020 | 11/18/2021 |
| Pre-Amplifier                      | EMC Instruments | EMC330N                     | 980781                       | 03/15/2021 | 03/14/2022 |
| Pre-Amplifier                      | EMC Instruments | EMC118A45SE                 | 980815                       | 03/15/2021 | 03/14/2022 |
| Attenuator                         | Marvelous       | MVE2213-30                  | RF04                         | 11/19/2020 | 11/18/2021 |
| High Pass Filter                   | R&S             | F13 HPF 3GHz                | RF175                        | 11/19/2020 | 11/18/2021 |
| Lowpass Filter                     | Woken           | EWT-56-0019                 | RF173                        | 11/19/2020 | 11/18/2021 |
| High Pass Filter                   | R&S             | HPF7.0                      | RF176                        | 11/19/2020 | 11/18/2021 |
| Notch Filter                       | Woken           | EWT-54-0037                 | RF204                        | 11/19/2020 | 11/18/2021 |
| Coaxial Cable                      | Huber+Suhner    | RG 214/U                    | W21.01                       | 11/19/2020 | 11/18/2021 |
| Test Software                      | audix           | e3                          | 20923 sgs Ver.9              | N.C.R      | N.C.R      |
| Coaxial Cable                      | EMC Instruments | EMC104-SM-SM-8000-5000-5000 | 210219、<br>210220、<br>210221 | 03/15/2021 | 03/14/2022 |

Note: N.C.R refers to Not Calibrated Required.

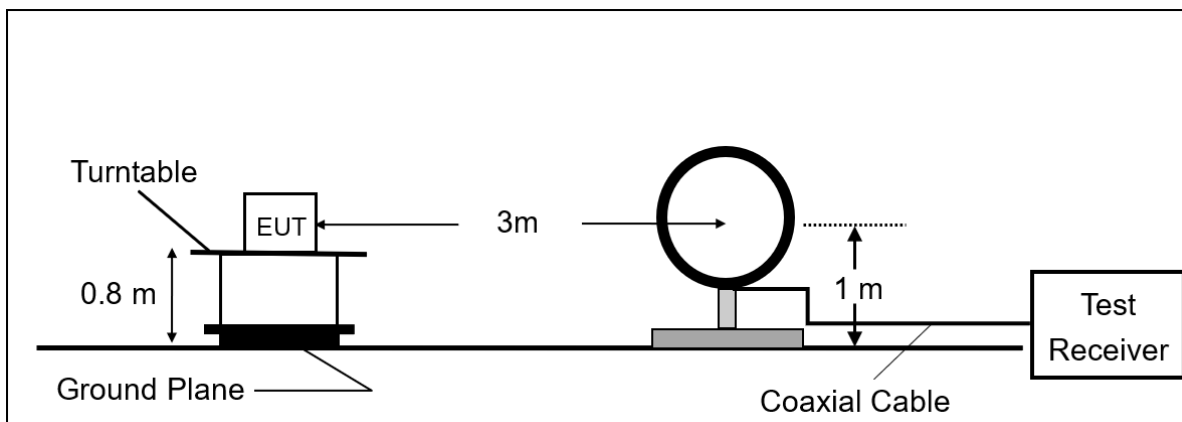
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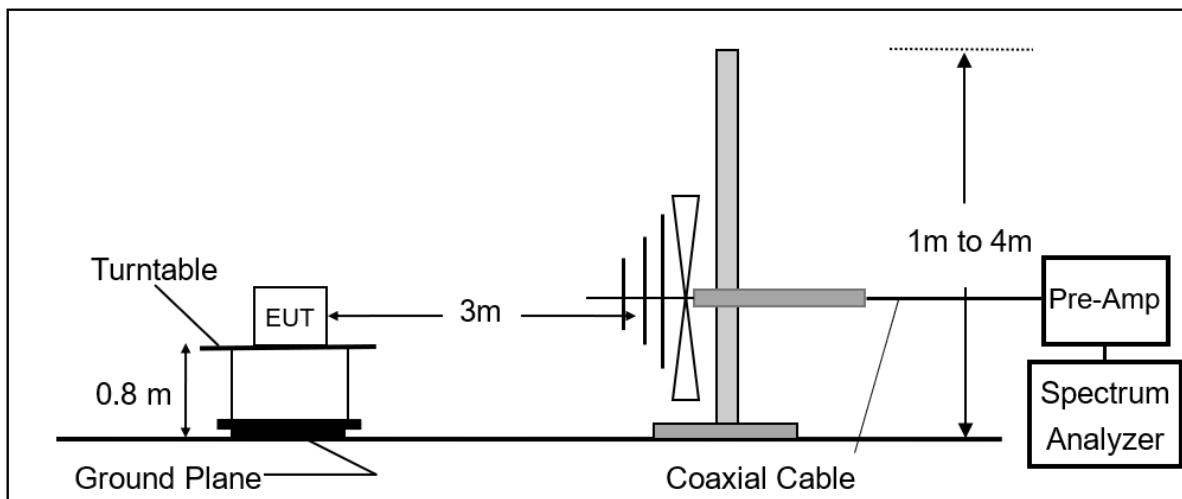
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## 7.3 Test SET-UP

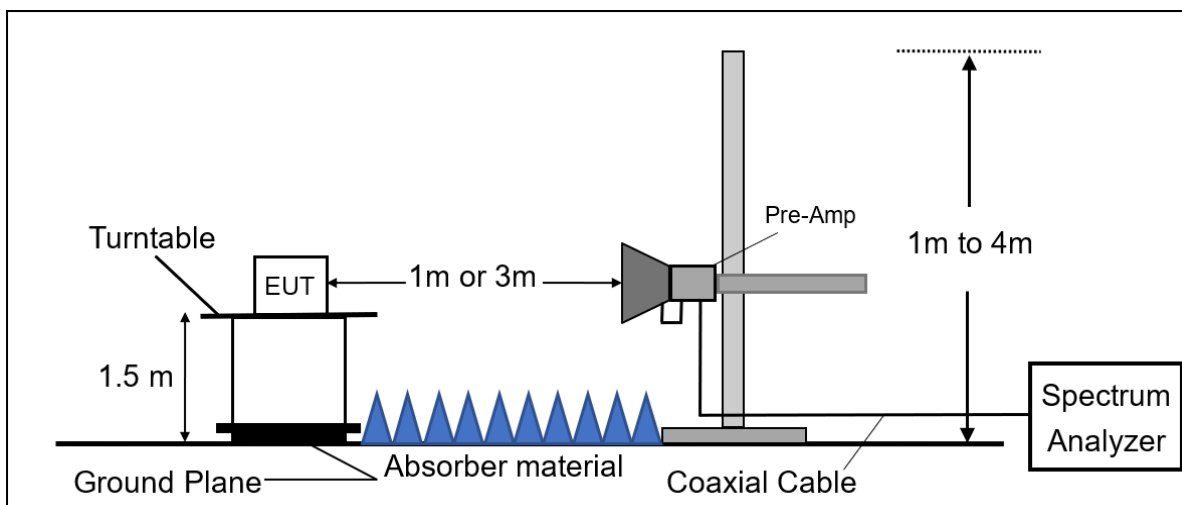
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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## 7.4 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  $\geq 1/T$  (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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## 7.5 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  $20 \cdot \log(uV/m)$*

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

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

## 7.6 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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## 7.7 Radiated Spurious Emission Measurement Result

### 7.7.1 Spurious Emission

Report Number :E2/2021/80020

Test Site :SAC G

Operation Mode :802.11a / Band 1

Test Date :2021-08-19

Test Frequency :5200 MHz

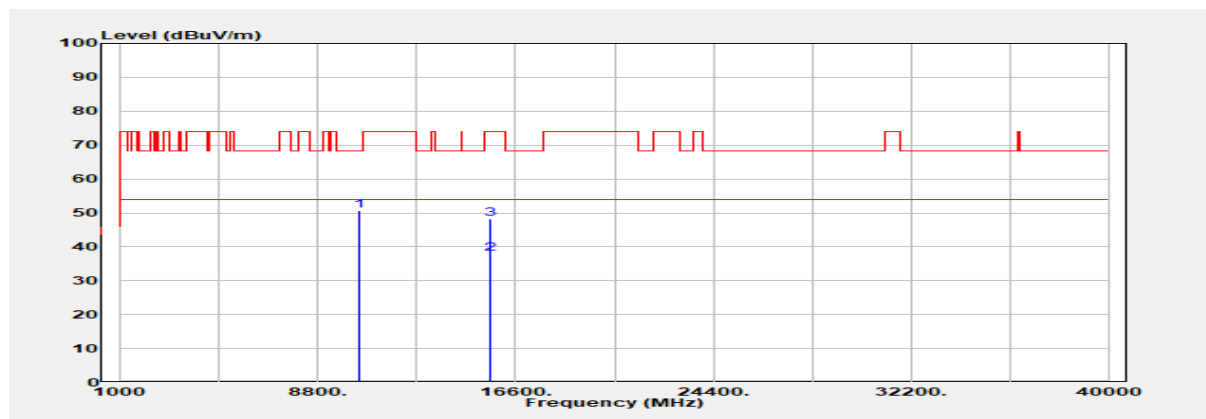
Temp./Humi. :24.5/60

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10400.000    | Peak                         | 48.78                             | 8.23         | 57.01                  | 68.20                  | -11.19       |
| 15600.000    | Average                      | 27.16                             | 11.27        | 38.43                  | 54.00                  | -15.57       |
| 15600.000    | Peak                         | 36.52                             | 11.27        | 47.79                  | 74.00                  | -26.21       |

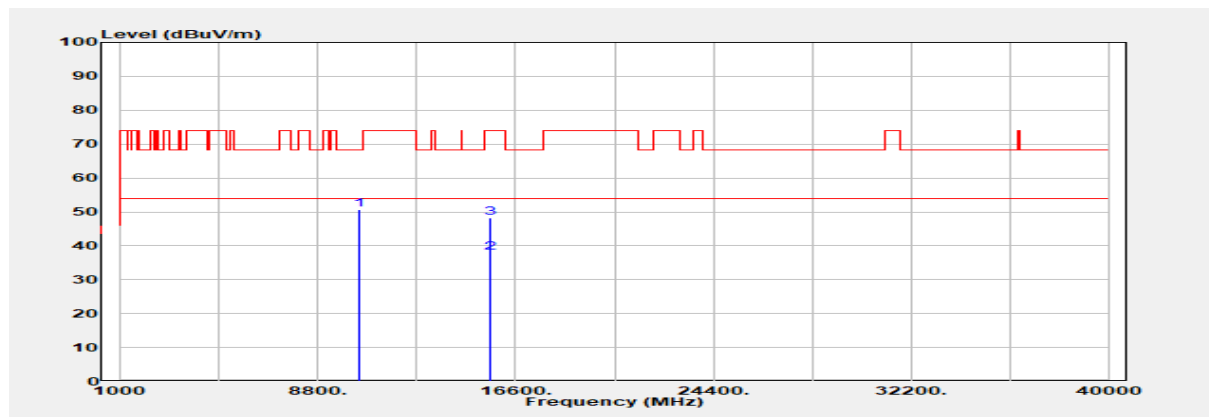
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Report Number :E2/2021/80020  
 Operation Mode :802.11a / Band 1  
 Test Frequency :5200 MHz  
 Test Mode :TX CH MID  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-08-19  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10400.000    | Peak                         | 42.48                             | 8.23         | 50.71                  | 68.20                  | -17.49       |
| 15600.000    | Average                      | 26.71                             | 11.27        | 37.98                  | 54.00                  | -16.02       |
| 15600.000    | Peak                         | 36.87                             | 11.27        | 48.14                  | 74.00                  | -25.86       |

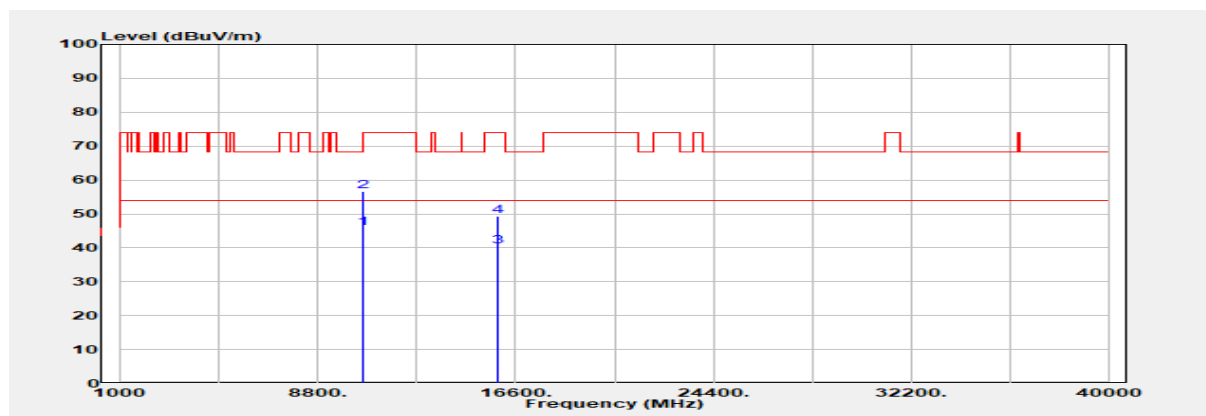
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Report Number :E2/2021/80020  
Operation Mode :802.11a / Band 2  
Test Frequency :5300 MHz  
Test Mode :TX CH MID  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2021-08-19  
Temp./Humi. :24.5/60  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10600.000    | Average                      | 36.68                             | 8.99         | 45.67                  | 54.00                  | -8.33        |
| 10600.000    | Peak                         | 47.62                             | 8.99         | 56.61                  | 74.00                  | -17.39       |
| 15900.000    | Average                      | 28.47                             | 12.01        | 40.48                  | 54.00                  | -13.52       |
| 15900.000    | Peak                         | 37.25                             | 12.01        | 49.26                  | 74.00                  | -24.74       |

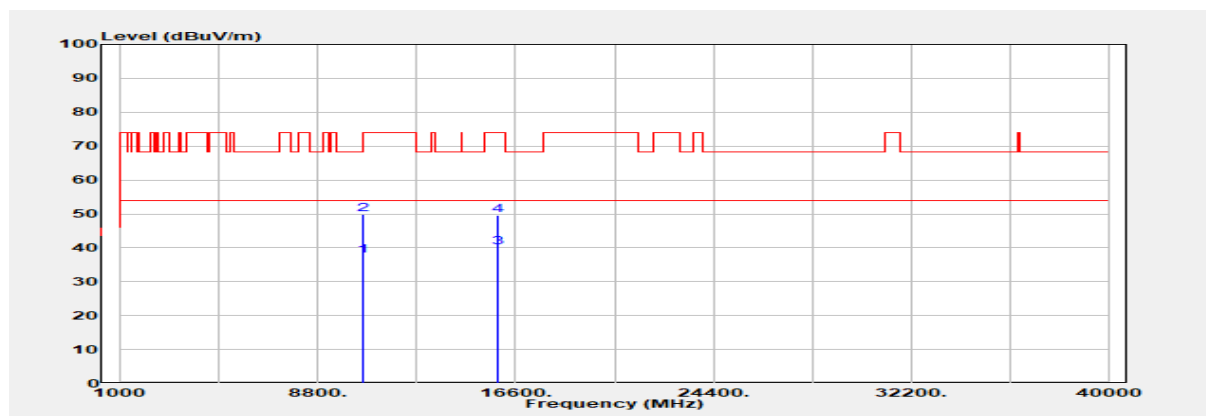
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Report Number :E2/2021/80020  
 Operation Mode :802.11a / Band 2  
 Test Frequency :5300 MHz  
 Test Mode :TX CH MID  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-08-19  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 10600.000    | Average                      | 28.55                             | 8.99         | 37.54                  | 54.00                  | -16.46       |
| 10600.000    | Peak                         | 40.77                             | 8.99         | 49.76                  | 74.00                  | -24.24       |
| 15900.000    | Average                      | 28.16                             | 12.01        | 40.17                  | 54.00                  | -13.83       |
| 15900.000    | Peak                         | 37.71                             | 12.01        | 49.72                  | 74.00                  | -24.28       |

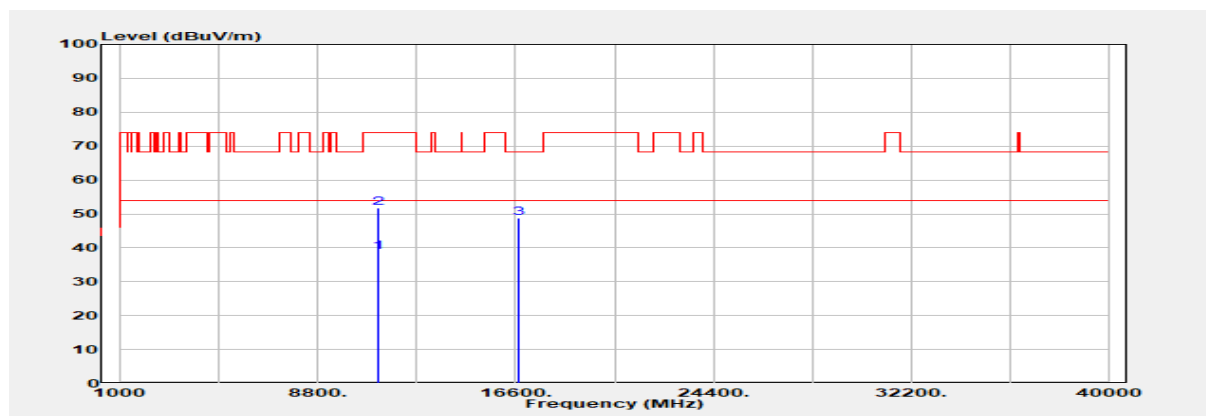
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Report Number :E2/2021/80020  
 Operation Mode :802.11a / Band 3  
 Test Frequency :5580 MHz  
 Test Mode :TX CH MID  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-08-19  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11160.000    | Average                      | 29.39                             | 9.36         | 38.75                  | 54.00                  | -15.25       |
| 11160.000    | Peak                         | 42.27                             | 9.36         | 51.63                  | 74.00                  | -22.37       |
| 16740.000    | Peak                         | 37.53                             | 11.29        | 48.82                  | 68.20                  | -19.38       |

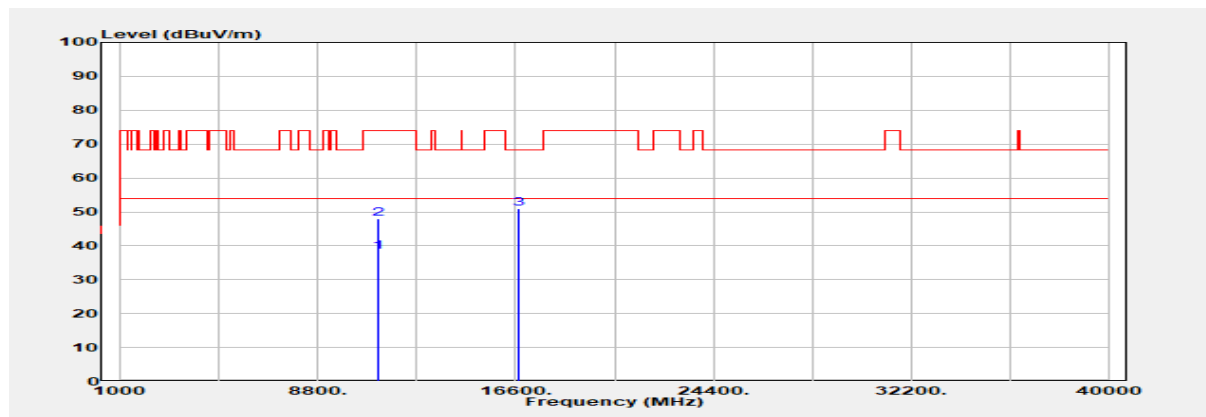
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Report Number :E2/2021/80020  
 Operation Mode :802.11a / Band 3  
 Test Frequency :5580 MHz  
 Test Mode :TX CH MID  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-08-19  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11160.000    | Average                      | 28.91                             | 9.36         | 38.27                  | 54.00                  | -15.73       |
| 11160.000    | Peak                         | 38.57                             | 9.36         | 47.93                  | 74.00                  | -26.07       |
| 16740.000    | Peak                         | 39.68                             | 11.29        | 50.97                  | 68.20                  | -17.23       |

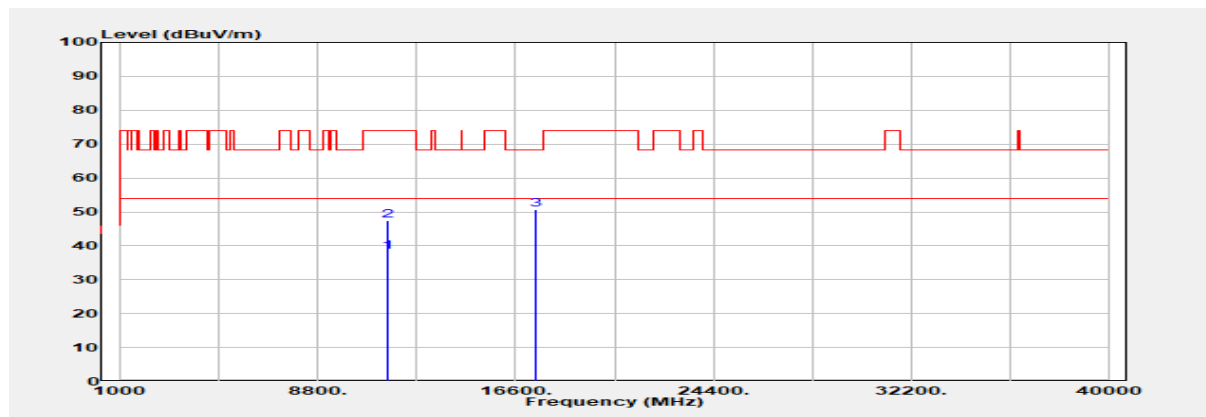
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Report Number :E2/2021/80020  
 Operation Mode :802.11a / Band 4  
 Test Frequency :5785 MHz  
 Test Mode :TX CH MID  
 EUT Pol :NB Plane

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11570.000    | Average                      | 28.11                             | 10.00        | 38.11                  | 54.00                  | -15.89       |
| 11570.000    | Peak                         | 37.51                             | 10.00        | 47.50                  | 74.00                  | -26.50       |
| 17355.000    | Peak                         | 39.67                             | 10.90        | 50.57                  | 68.20                  | -17.63       |

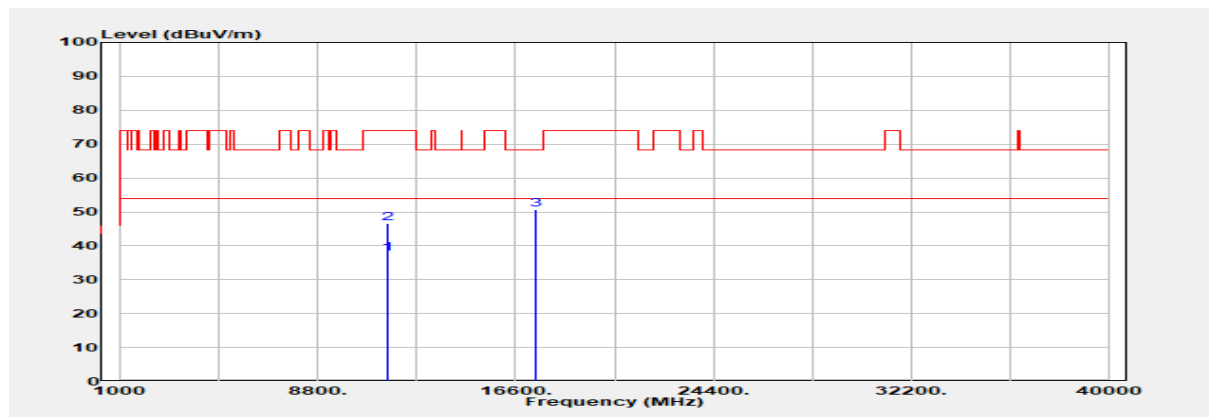
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Report Number :E2/2021/80020  
Operation Mode :802.11a / Band 4  
Test Frequency :5785 MHz  
Test Mode :TX CH MID  
EUT Pol :NB Plane

Test Site :SAC G  
Test Date :2021-08-19  
Temp./Humi. :24.5/60  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11570.000    | Average                      | 27.67                             | 10.00        | 37.67                  | 54.00                  | -16.33       |
| 11570.000    | Peak                         | 36.71                             | 10.00        | 46.70                  | 74.00                  | -27.30       |
| 17355.000    | Peak                         | 39.87                             | 10.90        | 50.77                  | 68.20                  | -17.43       |

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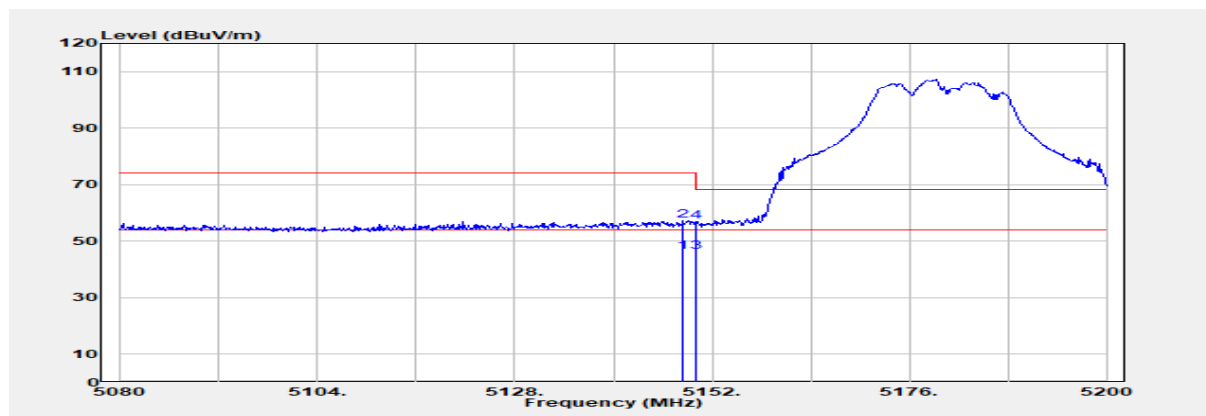
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## 7.7.2 Band edge falling to restricted band

Report Number :E2/2021/80020  
 Operation Mode :802.11a / Band 1  
 Test Frequency :5180 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane  
 Setting :11.5

Test Site :SAC G  
 Test Date :2021-08-19  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5148.520     | Average                      | 43.10                             | 2.99         | 46.09                  | 54.00                  | -7.91        |
| 5148.520     | Peak                         | 54.30                             | 2.99         | 57.29                  | 74.00                  | -16.71       |
| 5150.000     | Average                      | 43.05                             | 3.03         | 46.08                  | 54.00                  | -7.92        |
| 5150.000     | Peak                         | 53.83                             | 3.03         | 56.86                  | 74.00                  | -17.14       |

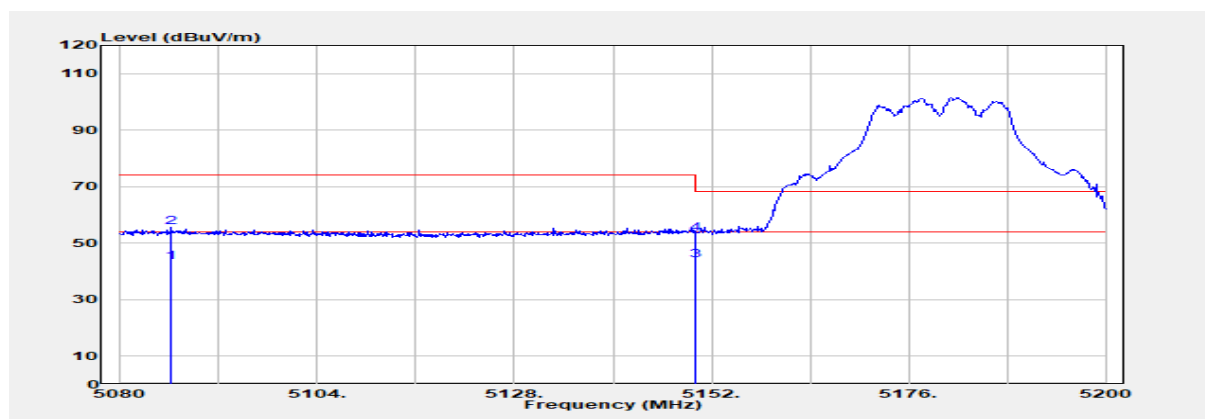
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Report Number :E2/2021/80020  
 Operation Mode :802.11a / Band 1  
 Test Frequency :5180 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane  
 Setting :11.5

Test Site :SAC G  
 Test Date :2021-08-19  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5086.240     | Average                      | 39.74                             | 3.36         | 43.10                  | 54.00                  | -10.90       |
| 5086.240     | Peak                         | 52.24                             | 3.36         | 55.61                  | 74.00                  | -18.39       |
| 5150.000     | Average                      | 40.80                             | 3.03         | 43.83                  | 54.00                  | -10.17       |
| 5150.000     | Peak                         | 50.32                             | 3.03         | 53.35                  | 74.00                  | -20.65       |

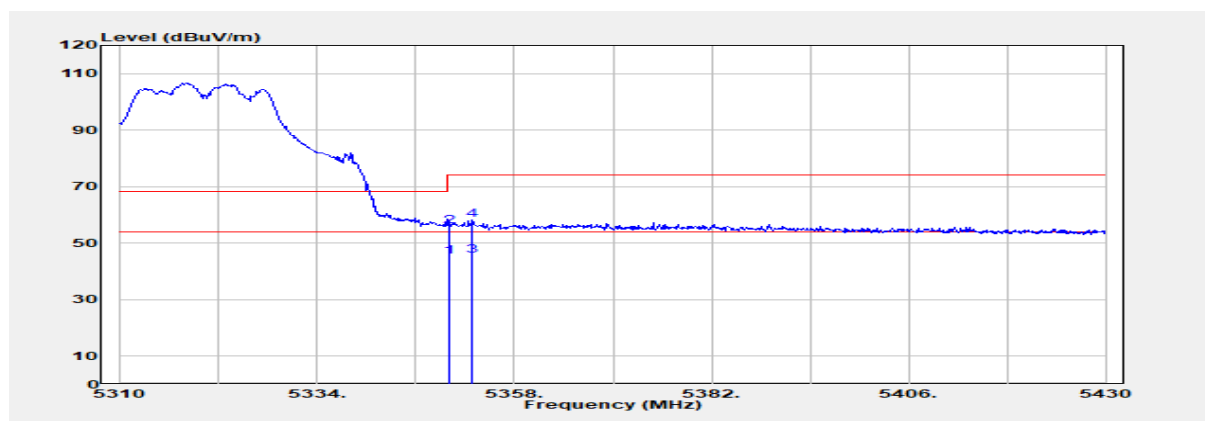
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Report Number :E2/2021/80020  
 Operation Mode :802.11a / Band 2  
 Test Frequency :5320 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane  
 Setting :12

Test Site :SAC G  
 Test Date :2021-08-19  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.000     | Average                      | 43.09                             | 2.21         | 45.30                  | 54.00                  | -8.70        |
| 5350.000     | Peak                         | 53.60                             | 2.21         | 55.81                  | 74.00                  | -18.19       |
| 5352.840     | Average                      | 43.16                             | 2.21         | 45.37                  | 54.00                  | -8.63        |
| 5352.840     | Peak                         | 56.08                             | 2.21         | 58.29                  | 74.00                  | -15.71       |

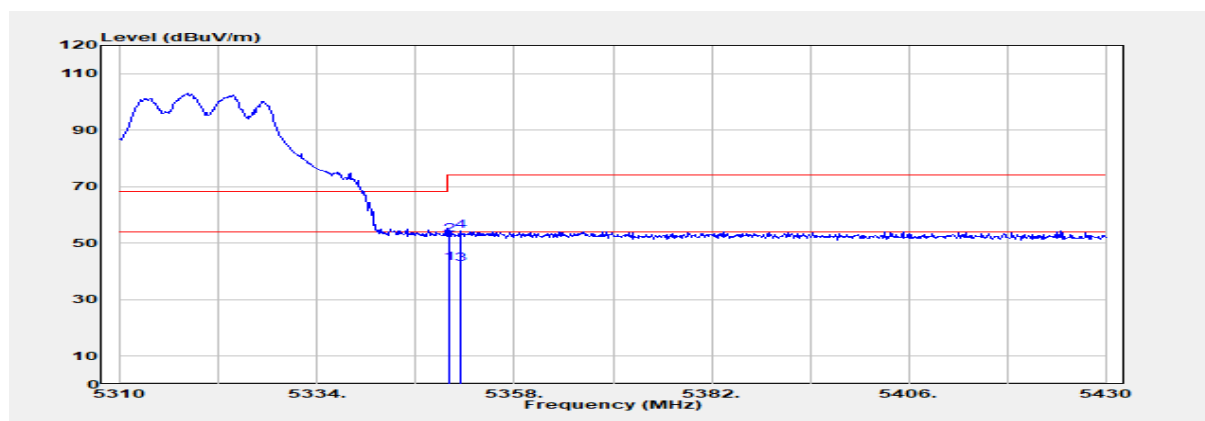
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Report Number :E2/2021/80020  
Operation Mode :802.11a / Band 2  
Test Frequency :5320 MHz  
Test Mode :BE CH HIGH  
EUT Pol :NB Plane  
Setting :12

Test Site :SAC G  
Test Date :2021-08-19  
Temp./Humi. :24.5/60  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.000     | Average                      | 40.62                             | 2.21         | 42.83                  | 54.00                  | -11.17       |
| 5350.000     | Peak                         | 50.92                             | 2.21         | 53.13                  | 74.00                  | -20.87       |
| 5351.400     | Average                      | 40.47                             | 2.21         | 42.68                  | 54.00                  | -11.32       |
| 5351.400     | Peak                         | 52.12                             | 2.21         | 54.33                  | 74.00                  | -19.67       |

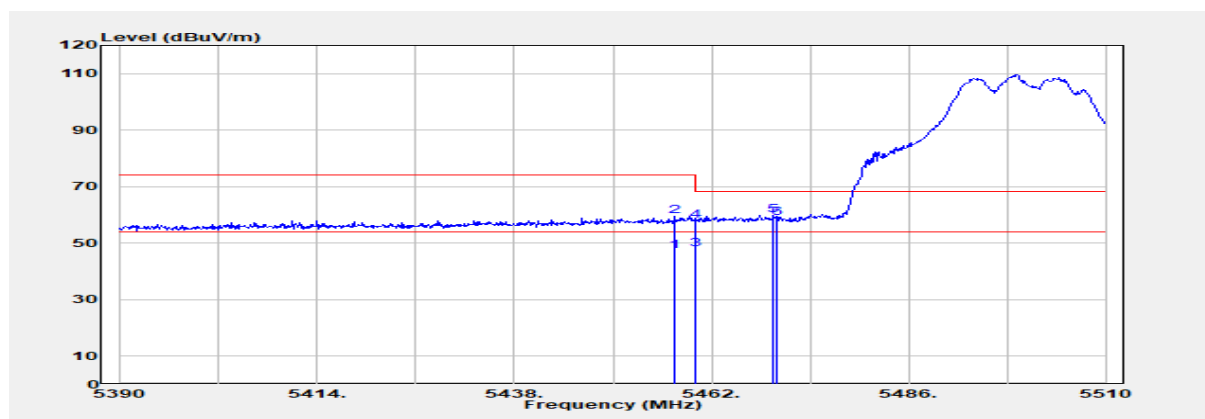
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Report Number :E2/2021/80020  
 Operation Mode :802.11a / Band 3  
 Test Frequency :5500 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane  
 Setting :12

Test Site :SAC G  
 Test Date :2021-08-19  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5457.560     | Average                      | 44.65                             | 2.63         | 47.28                  | 54.00                  | -6.72        |
| 5457.560     | Peak                         | 56.96                             | 2.63         | 59.60                  | 74.00                  | -14.40       |
| 5460.000     | Average                      | 45.05                             | 2.64         | 47.69                  | 54.00                  | -6.31        |
| 5460.000     | Peak                         | 55.22                             | 2.64         | 57.86                  | 74.00                  | -16.14       |
| 5469.560     | Peak                         | 57.15                             | 2.76         | 59.92                  | 68.20                  | -8.28        |
| 5470.000     | Peak                         | 56.08                             | 2.77         | 58.85                  | 68.20                  | -9.35        |

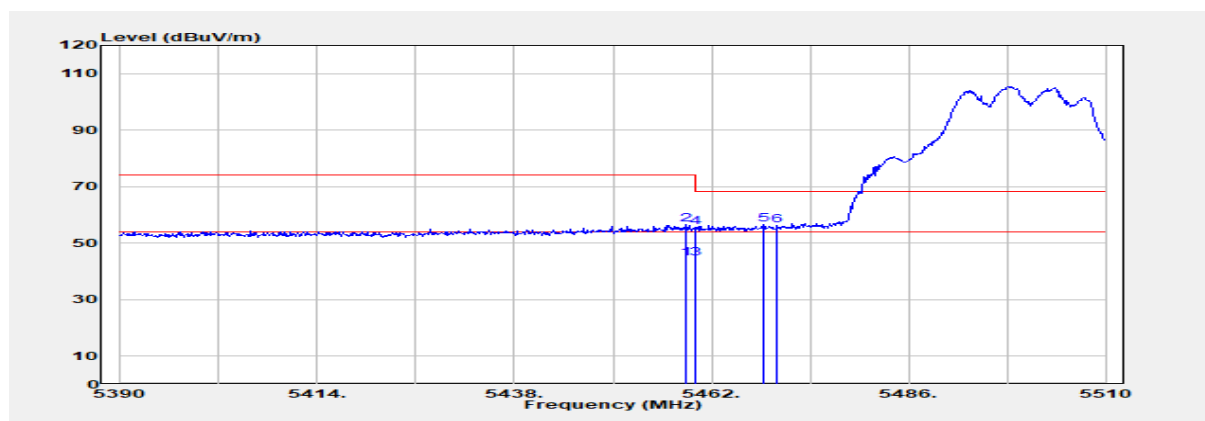
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Report Number :E2/2021/80020  
 Operation Mode :802.11a / Band 3  
 Test Frequency :5500 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane  
 Setting :12

Test Site :SAC G  
 Test Date :2021-08-19  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5458.880     | Average                      | 41.78                             | 2.64         | 44.42                  | 54.00                  | -9.58        |
| 5458.880     | Peak                         | 53.86                             | 2.64         | 56.49                  | 74.00                  | -17.51       |
| 5460.000     | Average                      | 41.86                             | 2.64         | 44.50                  | 54.00                  | -9.50        |
| 5460.000     | Peak                         | 52.91                             | 2.64         | 55.55                  | 74.00                  | -18.45       |
| 5468.240     | Peak                         | 53.75                             | 2.75         | 56.50                  | 68.20                  | -11.70       |
| 5470.000     | Peak                         | 53.58                             | 2.77         | 56.35                  | 68.20                  | -11.85       |

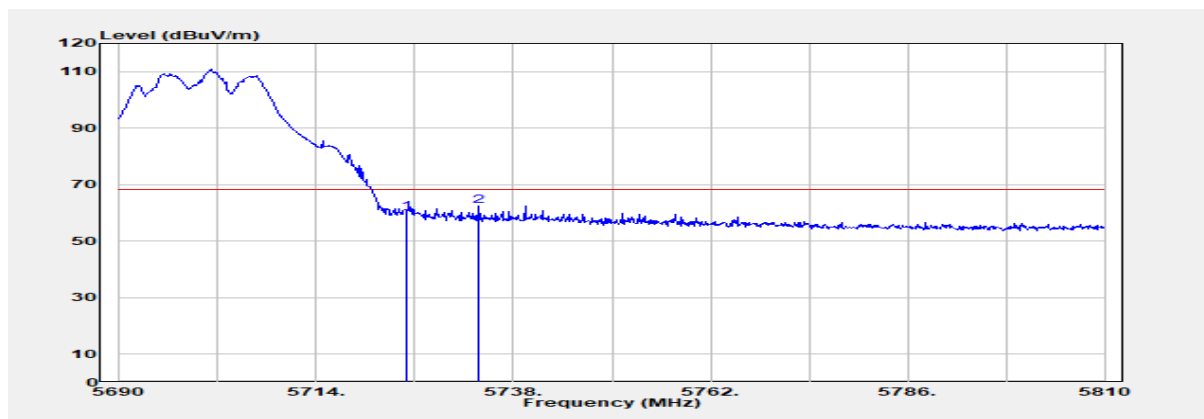
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Report Number :E2/2021/80020  
 Operation Mode :802.11a / Band 3  
 Test Frequency :5700 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane  
 Setting :13

Test Site :SAC G  
 Test Date :2021-08-19  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



| 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                         | 55.94                             | 4.21         | 60.15                  | 68.20                  | -8.05        |
| 5733.800     | Peak                         | 58.28                             | 4.28         | 62.56                  | 68.20                  | -5.64        |

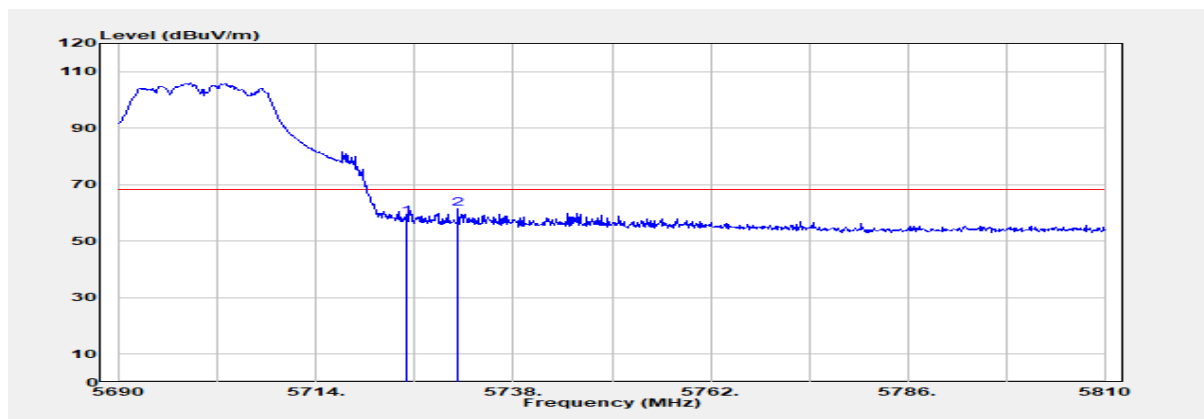
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Report Number :E2/2021/80020  
 Operation Mode :802.11a / Band 3  
 Test Frequency :5700 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane  
 Setting :13

Test Site :SAC G  
 Test Date :2021-08-19  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



| 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                         | 54.37                             | 4.21         | 58.58                  | 68.20                  | -9.62        |
| 5731.280     | Peak                         | 57.06                             | 4.26         | 61.32                  | 68.20                  | -6.88        |

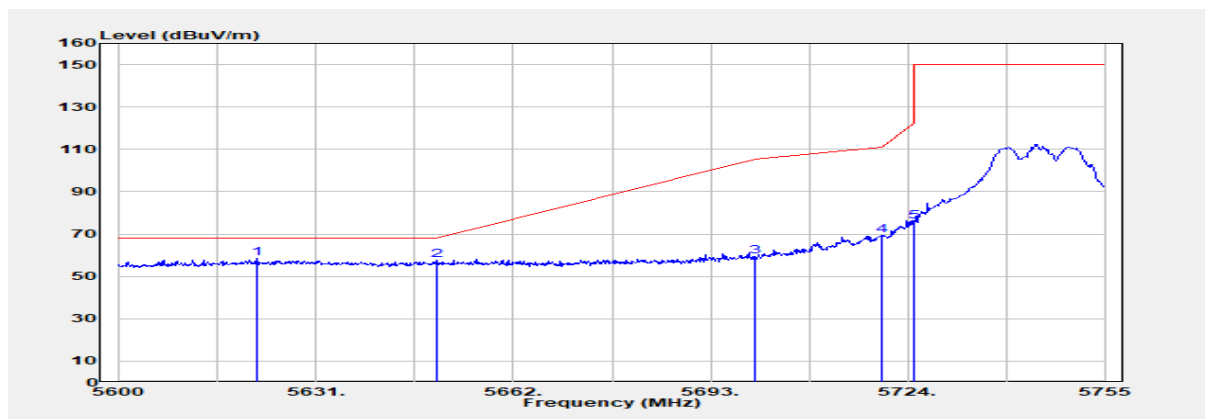
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Report Number :E2/2021/80020  
Operation Mode :802.11a / Band 4  
Test Frequency :5745 MHz  
Test Mode :BE CH LOW  
EUT Pol :NB Plane  
Setting :16

Test Site :SAC G  
Test Date :2021-08-19  
Temp./Humi. :24.5/60  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5621.545     | Peak                         | 54.95                             | 3.45         | 58.40                  | 68.20                  | -9.80        |
| 5650.000     | Peak                         | 53.88                             | 3.60         | 57.48                  | 68.20                  | -10.72       |
| 5700.000     | Peak                         | 56.18                             | 3.31         | 59.49                  | 105.20                 | -45.71       |
| 5720.000     | Peak                         | 65.42                             | 4.17         | 69.59                  | 110.80                 | -41.21       |
| 5725.000     | Peak                         | 71.61                             | 4.21         | 75.82                  | 122.20                 | -46.38       |

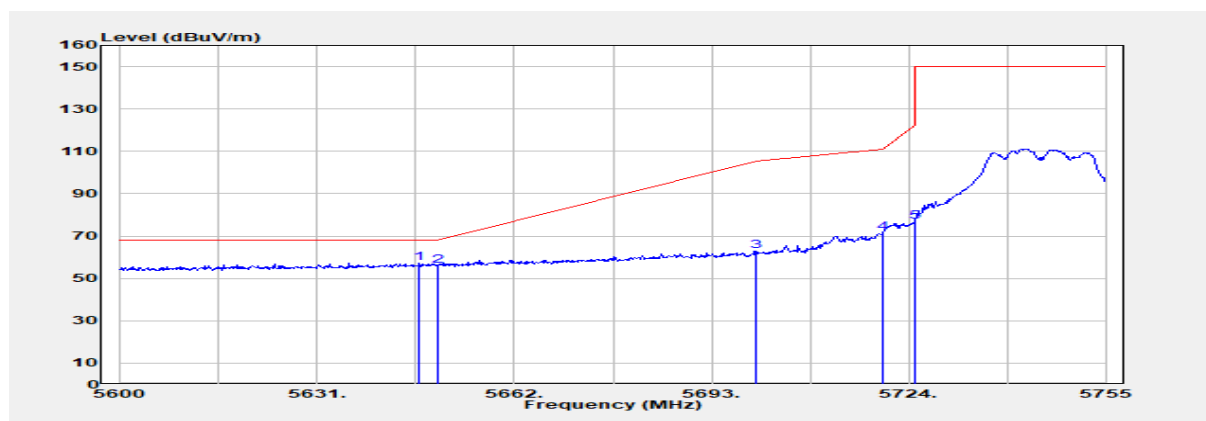
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Report Number :E2/2021/80020  
Operation Mode :802.11a / Band 4  
Test Frequency :5745 MHz  
Test Mode :BE CH LOW  
EUT Pol :NB Plane  
Setting :16

Test Site :SAC G  
Test Date :2021-08-19  
Temp./Humi. :24.5/60  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5646.965     | Peak                         | 53.88                             | 3.54         | 57.43                  | 68.20                  | -10.77       |
| 5650.000     | Peak                         | 52.14                             | 3.60         | 55.74                  | 68.20                  | -12.46       |
| 5700.000     | Peak                         | 59.45                             | 3.31         | 62.76                  | 105.20                 | -42.44       |
| 5720.000     | Peak                         | 67.47                             | 4.17         | 71.64                  | 110.80                 | -39.16       |
| 5725.000     | Peak                         | 72.41                             | 4.21         | 76.62                  | 122.20                 | -45.58       |

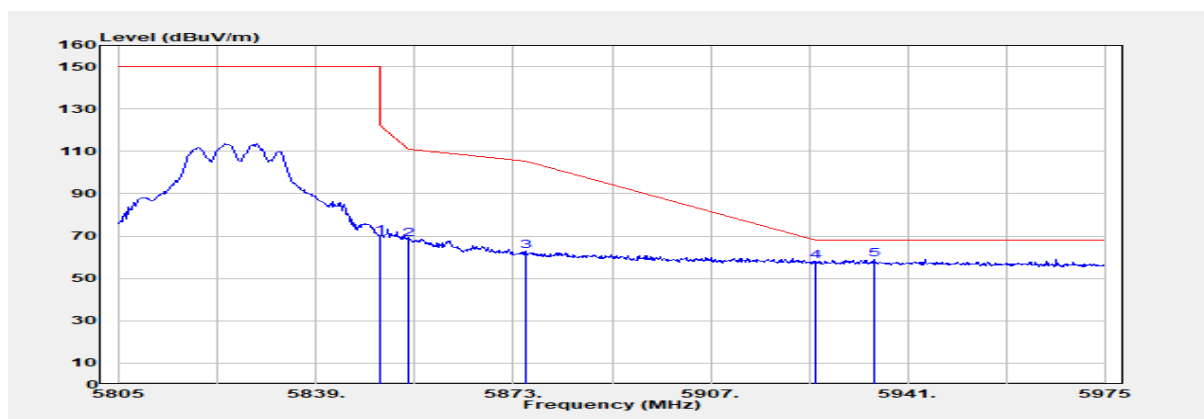
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Report Number :E2/2021/80020  
Operation Mode :802.11a / Band 4  
Test Frequency :5825 MHz  
Test Mode :BE CH HIGH  
EUT Pol :NB Plane  
Setting :16.5

Test Site :SAC G  
Test Date :2021-08-19  
Temp./Humi. :24.5/60  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



| 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                         | 65.71                             | 4.31         | 70.02                  | 122.20                 | -52.18       |
| 5855.000     | Peak                         | 64.13                             | 4.21         | 68.34                  | 110.80                 | -42.46       |
| 5875.000     | Peak                         | 59.01                             | 3.90         | 62.91                  | 105.20                 | -42.29       |
| 5925.000     | Peak                         | 53.86                             | 4.36         | 58.21                  | 68.20                  | -9.99        |
| 5935.220     | Peak                         | 54.68                             | 4.23         | 58.91                  | 68.20                  | -9.29        |

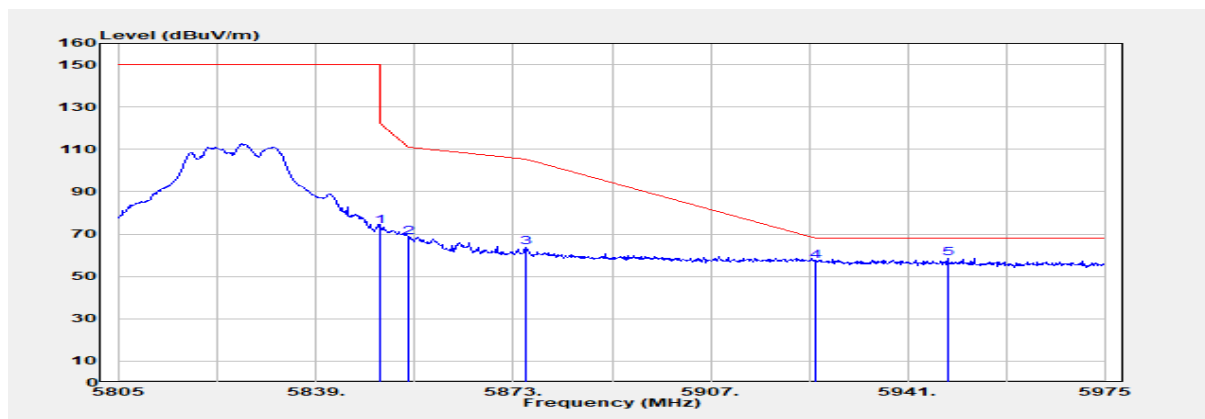
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Report Number :E2/2021/80020  
Operation Mode :802.11a / Band 4  
Test Frequency :5825 MHz  
Test Mode :BE CH HIGH  
EUT Pol :NB Plane  
Setting :16.5

Test Site :SAC G  
Test Date :2021-08-20  
Temp./Humi. :24.5/60  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



| 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                         | 69.28                                   | 4.31         | 73.59                        | 122.20                       | -48.61       |
| 5855.000     | Peak                         | 64.33                                   | 4.21         | 68.54                        | 110.80                       | -42.26       |
| 5875.000     | Peak                         | 59.80                                   | 3.90         | 63.70                        | 105.20                       | -41.50       |
| 5925.000     | Peak                         | 53.02                                   | 4.36         | 57.38                        | 68.20                        | -10.82       |
| 5947.970     | Peak                         | 54.42                                   | 4.06         | 58.48                        | 68.20                        | -9.72        |

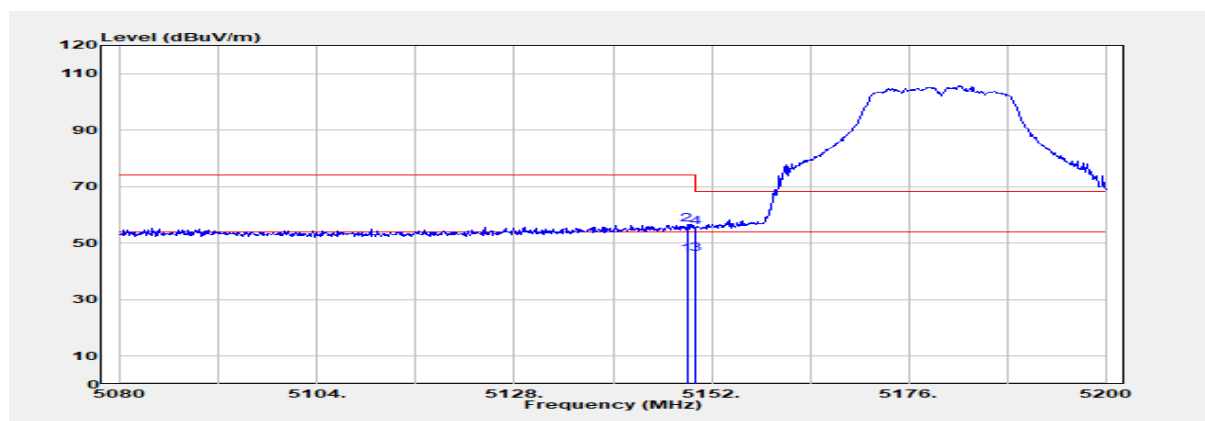
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Report Number :E2/2021/80020  
 Operation Mode :802.11ac20 / Band 1  
 Test Frequency :5180 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane  
 Setting :13.5

Test Site :SAC G  
 Test Date :2021-08-19  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5149.000     | Average                      | 42.89                             | 3.01         | 45.90                  | 54.00                  | -8.10        |
| 5149.000     | Peak                         | 53.63                             | 3.01         | 56.64                  | 74.00                  | -17.36       |
| 5150.000     | Average                      | 43.12                             | 3.03         | 46.15                  | 54.00                  | -7.85        |
| 5150.000     | Peak                         | 52.53                             | 3.03         | 55.56                  | 74.00                  | -18.44       |

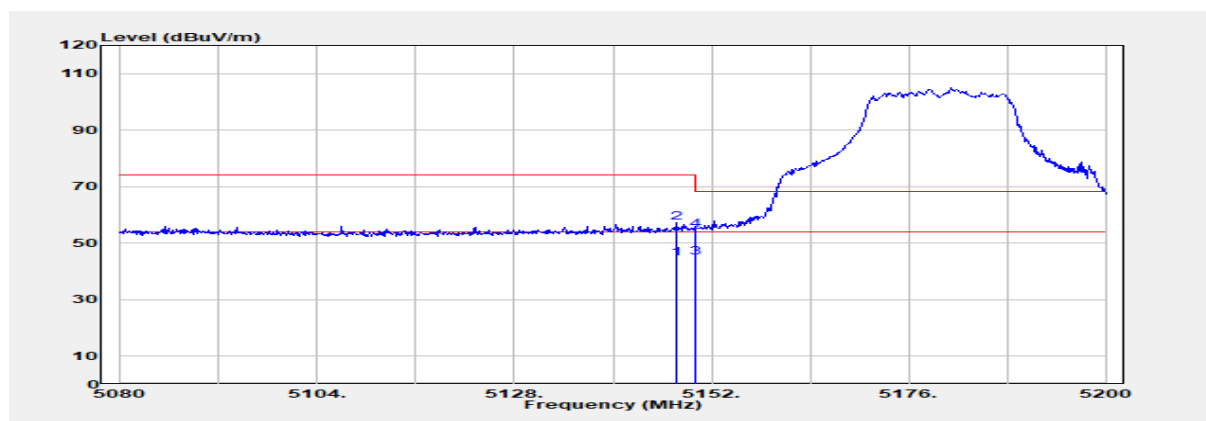
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Report Number :E2/2021/80020  
 Operation Mode :802.11ac20 / Band 1  
 Test Frequency :5180 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane  
 Setting :13.5

Test Site :SAC G  
 Test Date :2021-08-19  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5147.800     | Average                      | 41.64                             | 2.98         | 44.61                  | 54.00                  | -9.39        |
| 5147.800     | Peak                         | 54.13                             | 2.98         | 57.11                  | 74.00                  | -16.89       |
| 5150.000     | Average                      | 41.73                             | 3.03         | 44.76                  | 54.00                  | -9.24        |
| 5150.000     | Peak                         | 51.71                             | 3.03         | 54.74                  | 74.00                  | -19.26       |

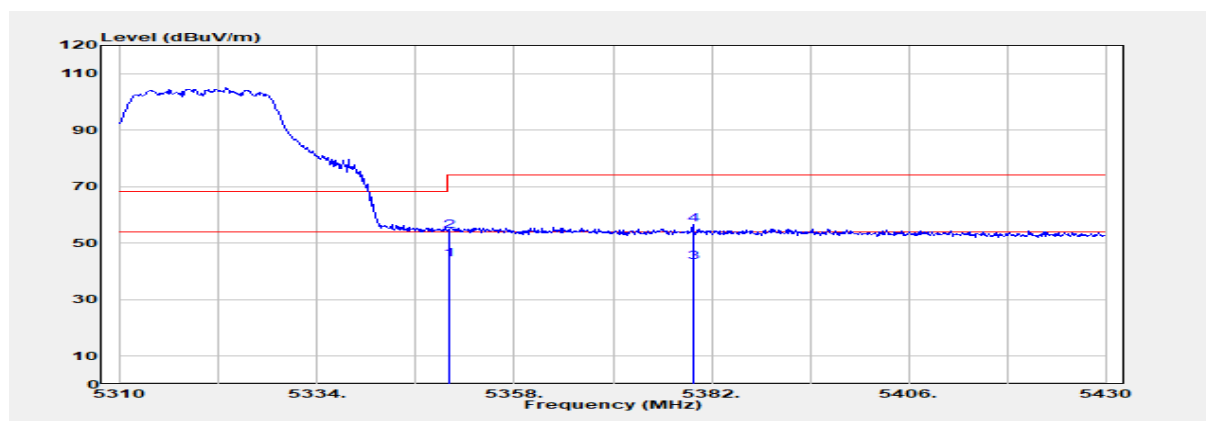
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Report Number :E2/2021/80020  
 Operation Mode :802.11ac20 / Band 2  
 Test Frequency :5320 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane  
 Setting :13

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.000     | Average                      | 41.91                             | 2.21         | 44.12                  | 54.00                  | -9.88        |
| 5350.000     | Peak                         | 52.19                             | 2.21         | 54.40                  | 74.00                  | -19.60       |
| 5379.720     | Average                      | 41.04                             | 2.34         | 43.38                  | 54.00                  | -10.62       |
| 5379.720     | Peak                         | 54.16                             | 2.34         | 56.50                  | 74.00                  | -17.50       |

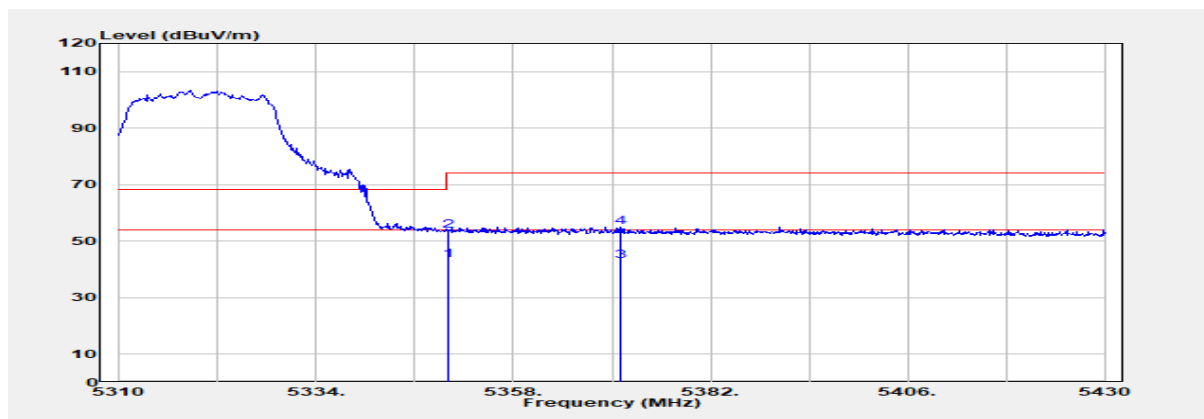
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Report Number :E2/2021/80020  
Operation Mode :802.11ac20 / Band 2  
Test Frequency :5320 MHz  
Test Mode :BE CH HIGH  
EUT Pol :NB Plane  
Setting :13

Test Site :SAC G  
Test Date :2021-08-20  
Temp./Humi. :24.5/60  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.000     | Average                      | 41.14                             | 2.21         | 43.35                  | 54.00                  | -10.66       |
| 5350.000     | Peak                         | 51.42                             | 2.21         | 53.63                  | 74.00                  | -20.37       |
| 5370.960     | Average                      | 40.53                             | 2.31         | 42.84                  | 54.00                  | -11.16       |
| 5370.960     | Peak                         | 52.79                             | 2.31         | 55.10                  | 74.00                  | -18.90       |

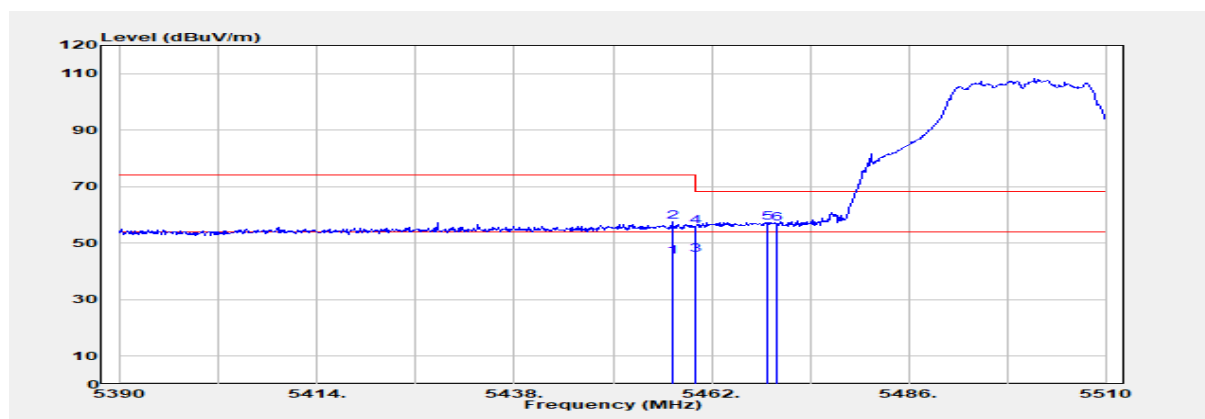
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Report Number :E2/2021/80020  
Operation Mode :802.11ac20 / Band 3  
Test Frequency :5500 MHz  
Test Mode :BE CH LOW  
EUT Pol :NB Plane  
Setting :14

Test Site :SAC G  
Test Date :2021-08-20  
Temp./Humi. :24.5/60  
Antenna Pol. :Vertical  
Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5457.200     | Average                      | 42.70                             | 2.63         | 45.33                  | 54.00                  | -8.67        |
| 5457.200     | Peak                         | 54.84                             | 2.63         | 57.47                  | 74.00                  | -16.53       |
| 5460.000     | Average                      | 43.12                             | 2.64         | 45.76                  | 54.00                  | -8.24        |
| 5460.000     | Peak                         | 53.33                             | 2.64         | 55.97                  | 74.00                  | -18.03       |
| 5468.720     | Peak                         | 54.64                             | 2.75         | 57.39                  | 68.20                  | -10.81       |
| 5470.000     | Peak                         | 54.03                             | 2.77         | 56.80                  | 68.20                  | -11.40       |

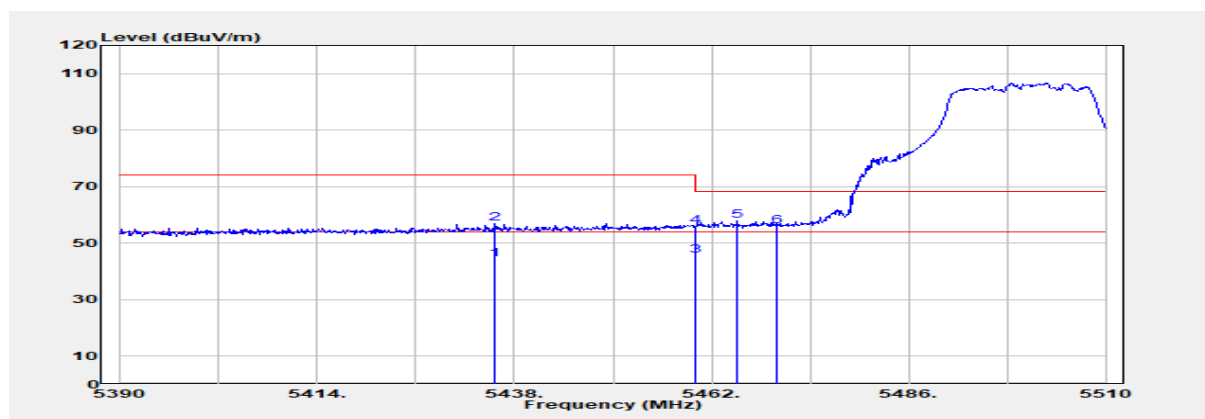
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Report Number :E2/2021/80020  
Operation Mode :802.11ac20 / Band 3  
Test Frequency :5500 MHz  
Test Mode :BE CH LOW  
EUT Pol :NB Plane  
Setting :14

Test Site :SAC G  
Test Date :2021-08-20  
Temp./Humi. :24.5/60  
Antenna Pol. :Horizontal  
Engineer :Jack Tseng



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5435.600     | Average                      | 42.02                             | 2.35         | 44.37                  | 54.00                  | -9.63        |
| 5435.600     | Peak                         | 54.50                             | 2.35         | 56.85                  | 74.00                  | -17.15       |
| 5460.000     | Average                      | 43.02                             | 2.64         | 45.66                  | 54.00                  | -8.34        |
| 5460.000     | Peak                         | 53.33                             | 2.64         | 55.97                  | 74.00                  | -18.03       |
| 5465.120     | Peak                         | 55.25                             | 2.71         | 57.95                  | 68.20                  | -10.25       |
| 5470.000     | Peak                         | 53.04                             | 2.77         | 55.81                  | 68.20                  | -12.39       |

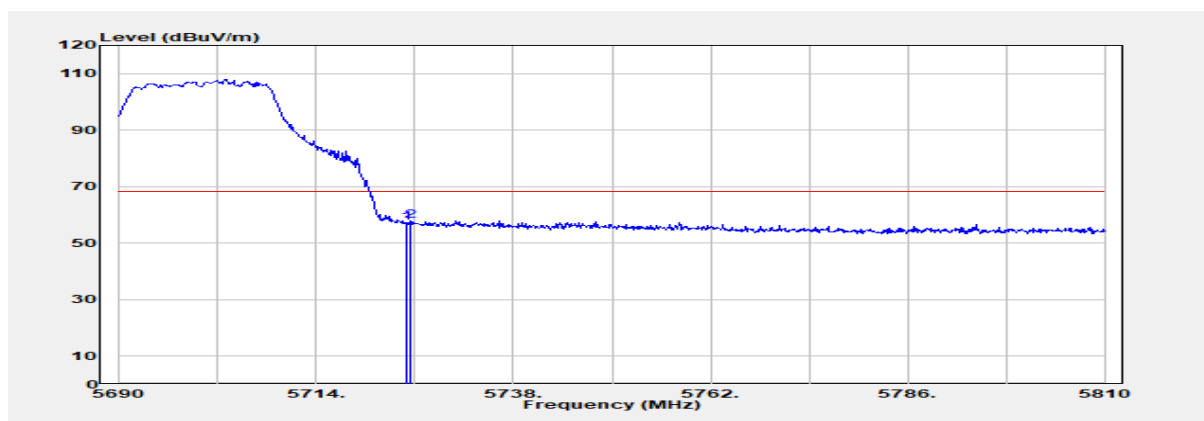
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Report Number :E2/2021/80020  
 Operation Mode :802.11ac20 / Band 3  
 Test Frequency :5700 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane  
 Setting :14

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Vertical  
 Engineer :Jack Tseng



| 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                         | 52.89                             | 4.21         | 57.10                  | 68.20                  | -11.10       |
| 5725.520     | Peak                         | 53.73                             | 4.21         | 57.94                  | 68.20                  | -10.26       |

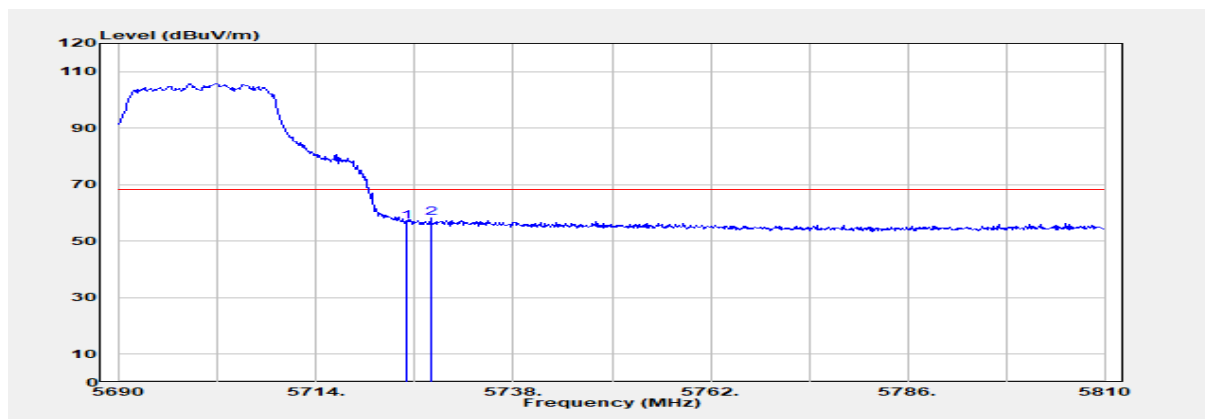
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Report Number :E2/2021/80020  
 Operation Mode :802.11ac20 / Band 3  
 Test Frequency :5700 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane  
 Setting :14

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Jack Tseng



| 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                         | 52.59                             | 4.21         | 56.80                  | 68.20                  | -11.40       |
| 5727.920     | Peak                         | 53.83                             | 4.23         | 58.06                  | 68.20                  | -10.14       |

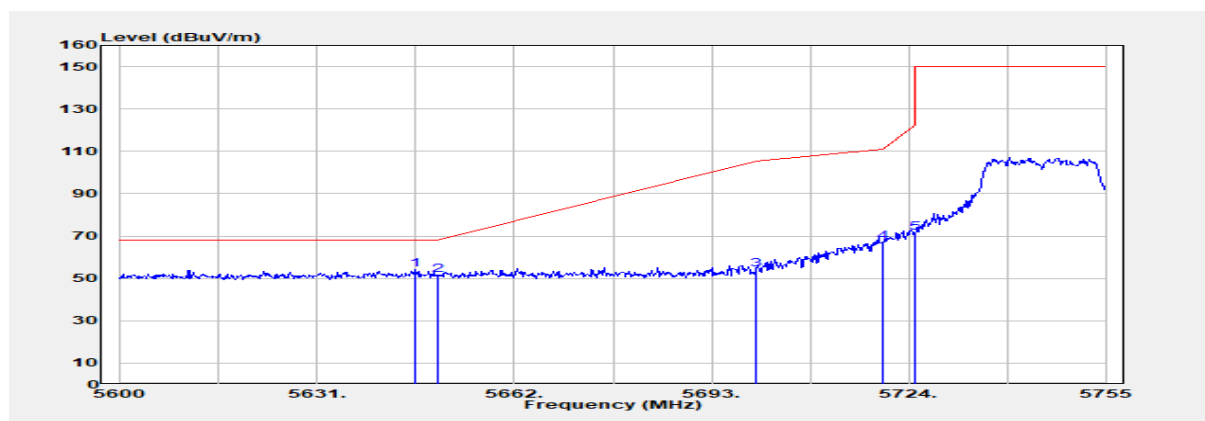
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Report Number :E2/2021/80020  
 Operation Mode :802.11ac20 / Band 4  
 Test Frequency :5745 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane  
 Setting :16.5

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Vertical  
 Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5646.345     | Peak                         | 50.72                             | 3.53         | 54.25                  | 68.20                  | -13.95       |
| 5650.000     | Peak                         | 47.83                             | 3.60         | 51.43                  | 68.20                  | -16.77       |
| 5700.000     | Peak                         | 51.01                             | 3.31         | 54.32                  | 105.20                 | -50.88       |
| 5720.000     | Peak                         | 62.97                             | 4.17         | 67.14                  | 110.80                 | -43.66       |
| 5725.000     | Peak                         | 67.26                             | 4.21         | 71.47                  | 122.20                 | -50.73       |

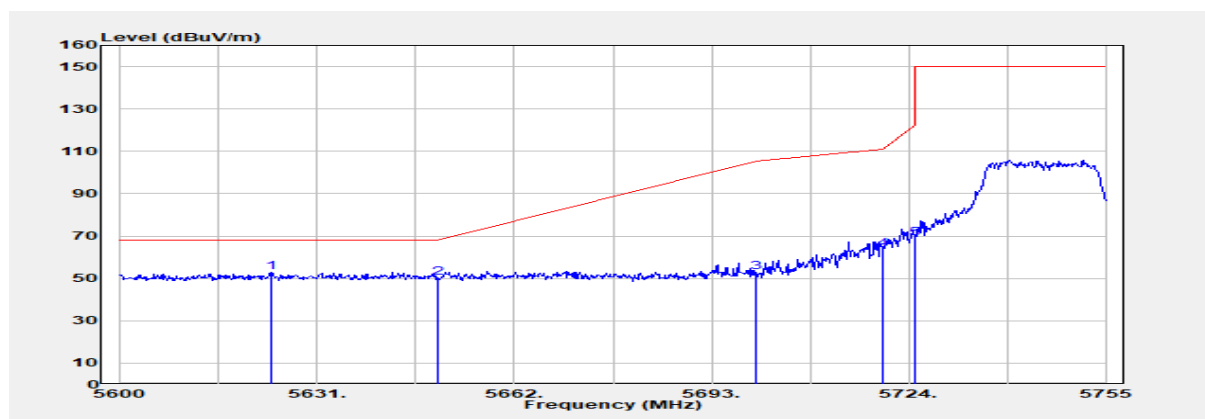
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Report Number :E2/2021/80020  
Operation Mode :802.11ac20 / Band 4  
Test Frequency :5745 MHz  
Test Mode :BE CH LOW  
EUT Pol :NB Plane  
Setting :16.5

Test Site :SAC G  
Test Date :2021-08-20  
Temp./Humi. :24.5/60  
Antenna Pol. :Horizontal  
Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5623.715     | Peak                         | 49.33                             | 3.46         | 52.79                  | 68.20                  | -15.41       |
| 5650.000     | Peak                         | 46.69                             | 3.60         | 50.29                  | 68.20                  | -17.91       |
| 5700.000     | Peak                         | 49.40                             | 3.31         | 52.71                  | 105.20                 | -52.49       |
| 5720.000     | Peak                         | 59.72                             | 4.17         | 63.89                  | 110.80                 | -46.91       |
| 5725.000     | Peak                         | 64.90                             | 4.21         | 69.11                  | 122.20                 | -53.09       |

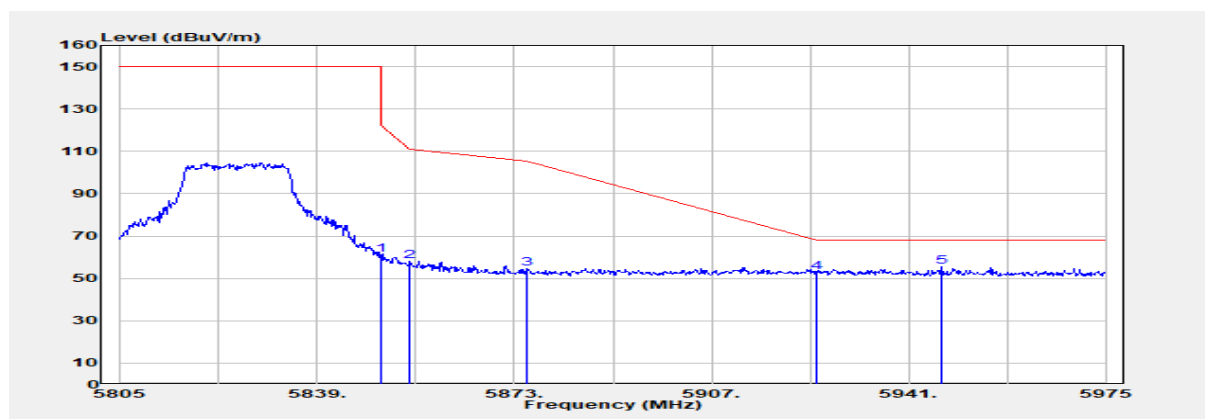
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Report Number :E2/2021/80020  
 Operation Mode :802.11ac20 / Band 4  
 Test Frequency :5825 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane  
 Setting :16.5

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Vertical  
 Engineer :Ashton Chiu



| 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                         | 56.68                             | 4.31         | 60.99                  | 122.20                 | -61.21       |
| 5855.000     | Peak                         | 53.69                             | 4.21         | 57.90                  | 110.80                 | -52.90       |
| 5875.000     | Peak                         | 50.84                             | 3.90         | 54.74                  | 105.20                 | -50.46       |
| 5925.000     | Peak                         | 48.66                             | 4.36         | 53.01                  | 68.20                  | -15.19       |
| 5946.780     | Peak                         | 51.32                             | 4.07         | 55.39                  | 68.20                  | -12.81       |

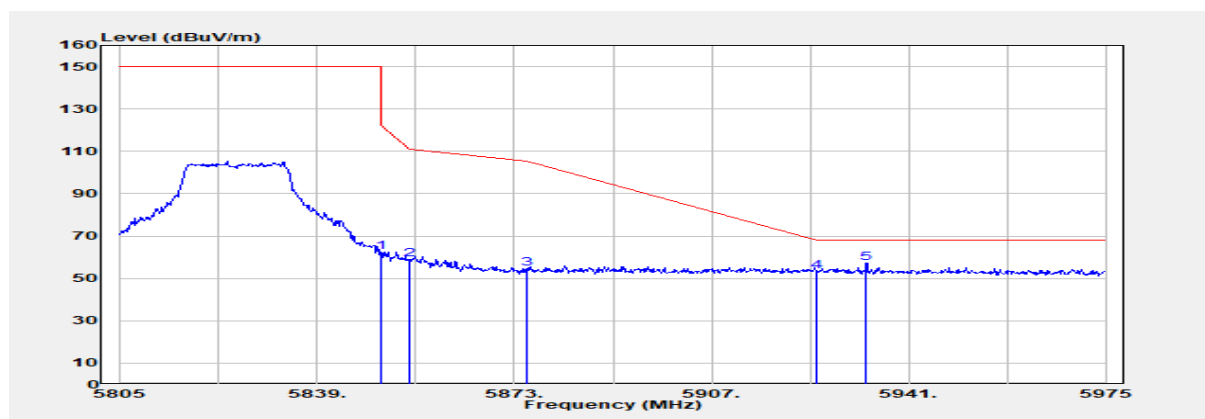
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Report Number :E2/2021/80020  
 Operation Mode :802.11ac20 / Band 4  
 Test Frequency :5825 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane  
 Setting :16.5

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Ashton Chiu



| 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                         | 58.18                             | 4.31         | 62.49                  | 122.20                 | -59.71       |
| 5855.000     | Peak                         | 54.62                             | 4.21         | 58.83                  | 110.80                 | -51.97       |
| 5875.000     | Peak                         | 50.76                             | 3.90         | 54.66                  | 105.20                 | -50.54       |
| 5925.000     | Peak                         | 48.82                             | 4.36         | 53.17                  | 68.20                  | -15.03       |
| 5933.690     | Peak                         | 52.82                             | 4.26         | 57.09                  | 68.20                  | -11.11       |

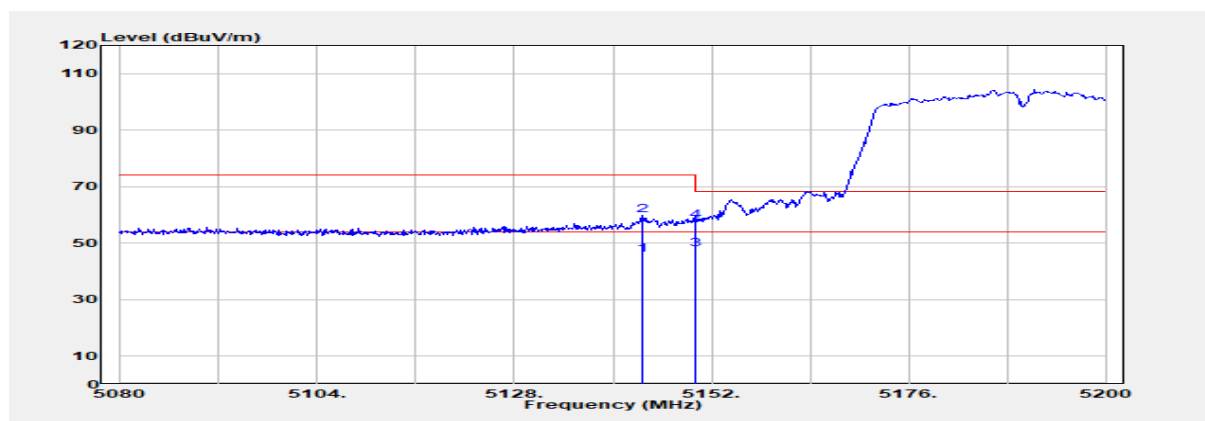
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Report Number :E2/2021/80020  
 Operation Mode :802.11ac40 / Band 1  
 Test Frequency :5190 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane  
 Setting :14

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :25.2/58  
 Antenna Pol. :Vertical  
 Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5143.480     | Average                      | 42.87                             | 2.87         | 45.74                  | 54.00                  | -8.26        |
| 5143.480     | Peak                         | 56.98                             | 2.87         | 59.86                  | 74.00                  | -14.14       |
| 5150.000     | Average                      | 44.78                             | 3.03         | 47.81                  | 54.00                  | -6.19        |
| 5150.000     | Peak                         | 54.91                             | 3.03         | 57.94                  | 74.00                  | -16.06       |

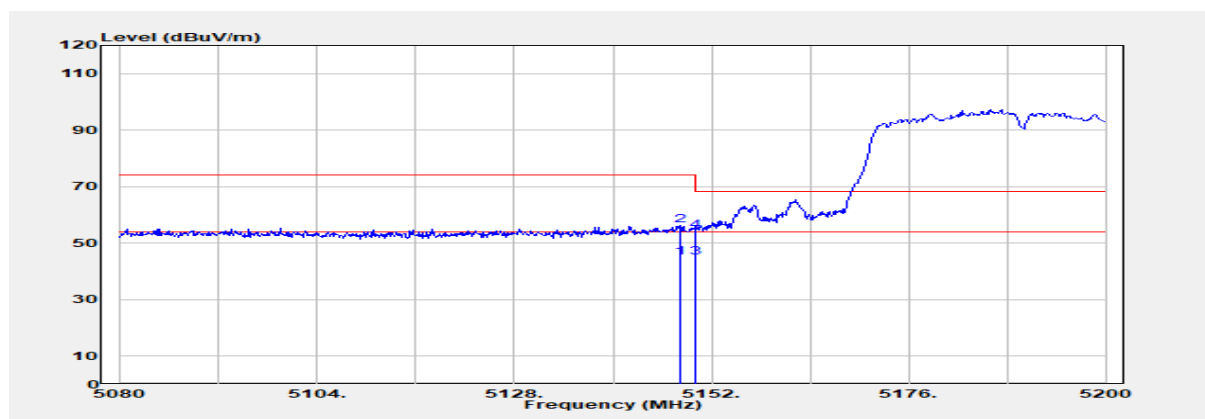
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Report Number :E2/2021/80020  
Operation Mode :802.11ac40 / Band 1  
Test Frequency :5190 MHz  
Test Mode :BE CH LOW  
EUT Pol :NB Plane  
Setting :14

Test Site :SAC G  
Test Date :2021-08-20  
Temp./Humi. :25.2/58  
Antenna Pol. :Horizontal  
Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5148.160     | Average                      | 41.83                             | 2.99         | 44.81                  | 54.00                  | -9.19        |
| 5148.160     | Peak                         | 53.29                             | 2.99         | 56.27                  | 74.00                  | -17.73       |
| 5150.000     | Average                      | 41.98                             | 3.03         | 45.01                  | 54.00                  | -8.99        |
| 5150.000     | Peak                         | 51.41                             | 3.03         | 54.44                  | 74.00                  | -19.56       |

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Report Number :E2/2021/80020

Test Site :SAC G

Operation Mode :802.11ac40 / Band 2

Test Date :2021-08-20

Test Frequency :5310 MHz

Temp./Humi. :25.2/58

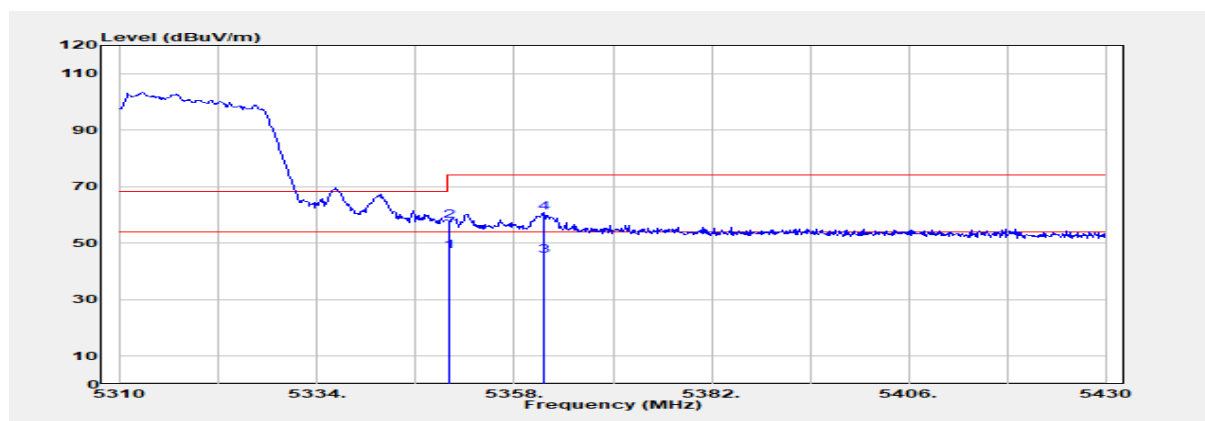
Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :14



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.000     | Average                      | 44.80                             | 2.21         | 47.01                  | 54.00                  | -6.99        |
| 5350.000     | Peak                         | 55.54                             | 2.21         | 57.75                  | 74.00                  | -16.25       |
| 5361.480     | Average                      | 43.18                             | 2.23         | 45.42                  | 54.00                  | -8.58        |
| 5361.480     | Peak                         | 58.67                             | 2.23         | 60.90                  | 74.00                  | -13.10       |

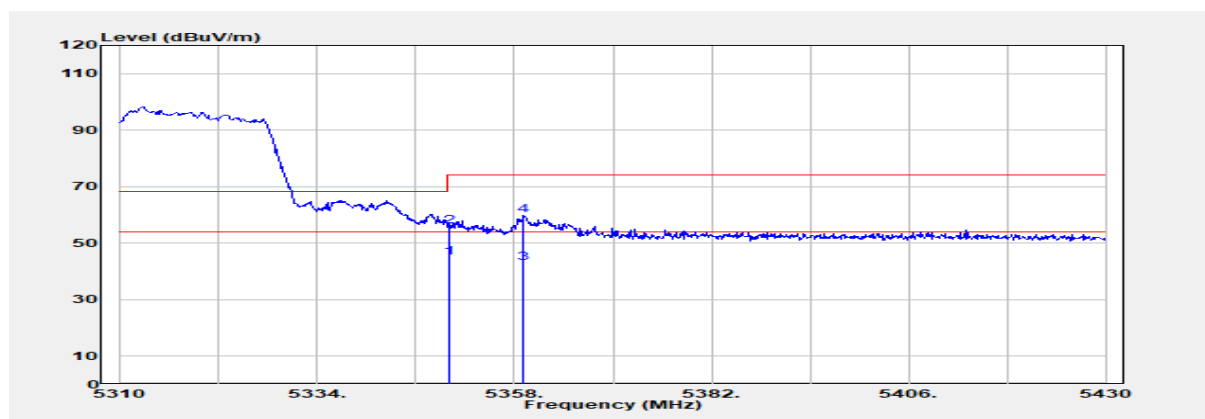
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Report Number :E2/2021/80020  
Operation Mode :802.11ac40 / Band 2  
Test Frequency :5310 MHz  
Test Mode :BE CH HIGH  
EUT Pol :NB Plane  
Setting :14

Test Site :SAC G  
Test Date :2021-08-20  
Temp./Humi. :25.2/58  
Antenna Pol. :Horizontal  
Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.000     | Average                      | 42.62                             | 2.21         | 44.83                  | 54.00                  | -9.17        |
| 5350.000     | Peak                         | 53.86                             | 2.21         | 56.07                  | 74.00                  | -17.93       |
| 5359.080     | Average                      | 40.85                             | 2.22         | 43.07                  | 54.00                  | -10.93       |
| 5359.080     | Peak                         | 57.55                             | 2.22         | 59.76                  | 74.00                  | -14.24       |

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Report Number :E2/2021/80020

Test Site :SAC G

Operation Mode :802.11ac40 / Band 3

Test Date :2021-08-24

Test Frequency :5510 MHz

Temp./Humi. :24.5/61

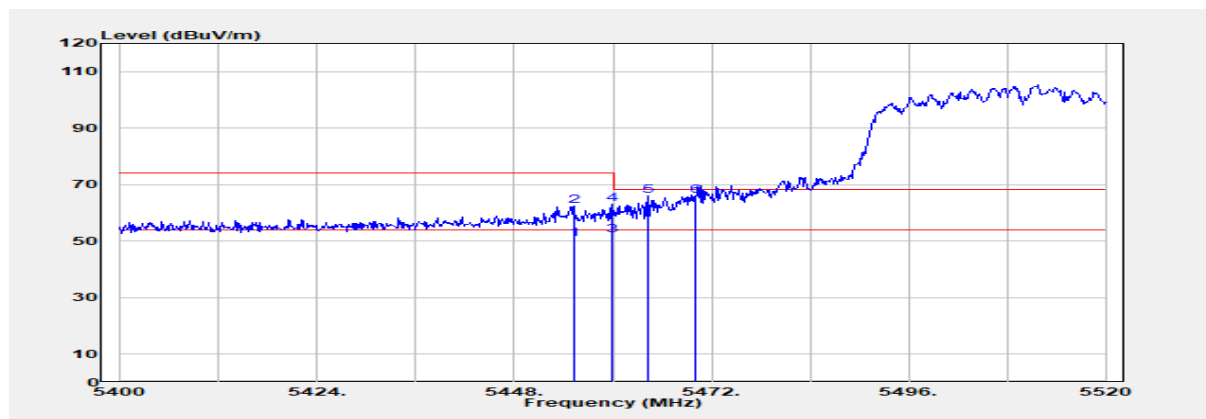
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :15



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5455.200     | Average                      | 48.10                             | 2.62         | 50.72                  | 54.00                  | -3.28        |
| 5455.200     | Peak                         | 59.70                             | 2.62         | 62.32                  | 74.00                  | -11.68       |
| 5460.000     | Average                      | 49.36                             | 2.64         | 52.00                  | 54.00                  | -2.00        |
| 5460.000     | Peak                         | 60.45                             | 2.64         | 63.09                  | 74.00                  | -10.91       |
| 5464.200     | Peak                         | 63.48                             | 2.69         | 66.17                  | 68.20                  | -2.03        |
| 5470.000     | Peak                         | 63.33                             | 2.77         | 66.10                  | 68.20                  | -2.10        |

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Report Number :E2/2021/80020

Test Site :SAC G

Operation Mode :802.11ac40 / Band 3

Test Date :2021-08-24

Test Frequency :5510 MHz

Temp./Humi. :24.5/61

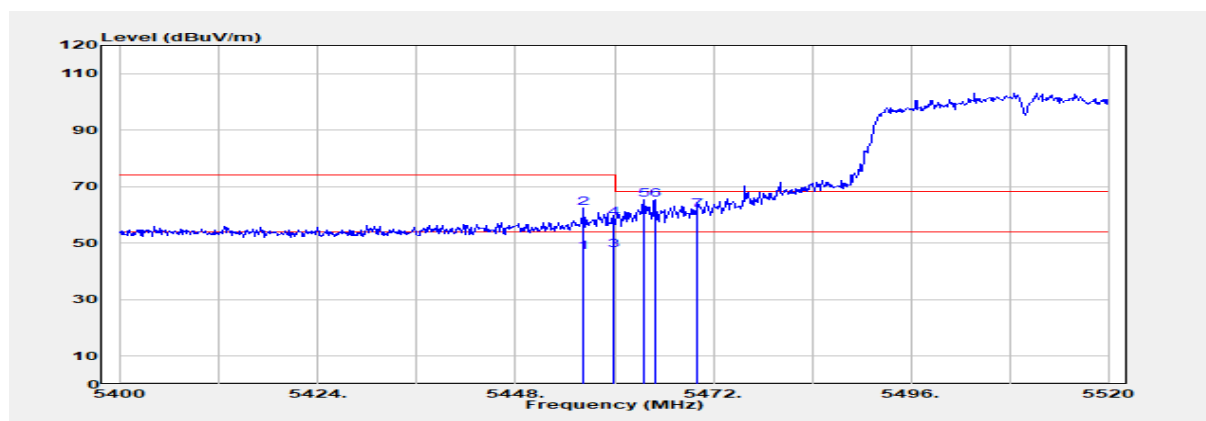
Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :15



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5456.280     | Average                      | 44.20                             | 2.63         | 46.82                  | 54.00                  | -7.18        |
| 5456.280     | Peak                         | 59.67                             | 2.63         | 62.29                  | 74.00                  | -11.71       |
| 5460.000     | Average                      | 44.72                             | 2.64         | 47.36                  | 54.00                  | -6.64        |
| 5460.000     | Peak                         | 56.07                             | 2.64         | 58.71                  | 74.00                  | -15.29       |
| 5463.600     | Peak                         | 62.59                             | 2.69         | 65.27                  | 68.20                  | -2.93        |
| 5464.920     | Peak                         | 62.62                             | 2.70         | 65.32                  | 68.20                  | -2.88        |
| 5470.000     | Peak                         | 59.14                             | 2.77         | 61.91                  | 68.20                  | -6.29        |

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Report Number :E2/2021/80020

Test Site :SAC G

Operation Mode :802.11ac40 / Band 3

Test Date :2021-08-20

Test Frequency :5670 MHz

Temp./Humi. :25.2/58

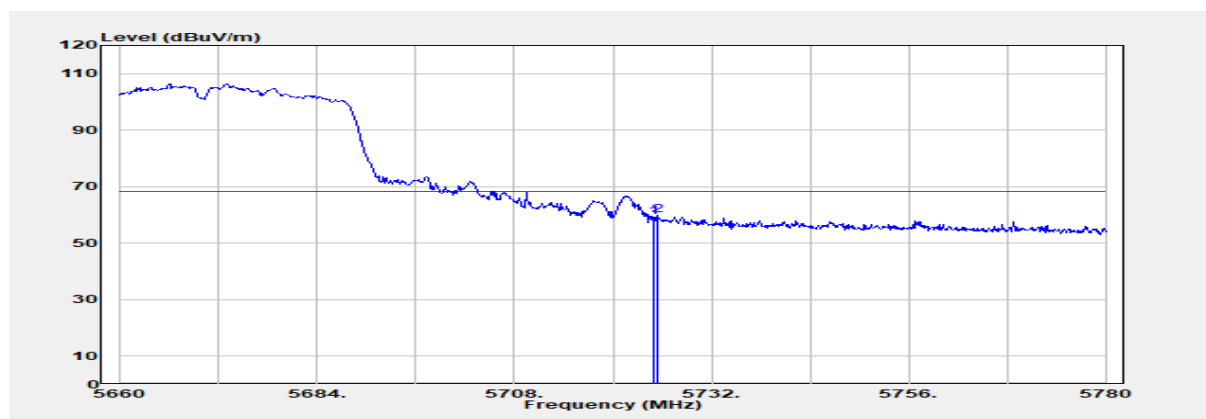
Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :16



| 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                         | 55.08                             | 4.21         | 59.29                  | 68.20                  | -8.91        |
| 5725.400     | Peak                         | 55.53                             | 4.21         | 59.74                  | 68.20                  | -8.46        |

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Report Number :E2/2021/80020

Test Site :SAC G

Operation Mode :802.11ac40 / Band 3

Test Date :2021-08-20

Test Frequency :5670 MHz

Temp./Humi. :25.2/58

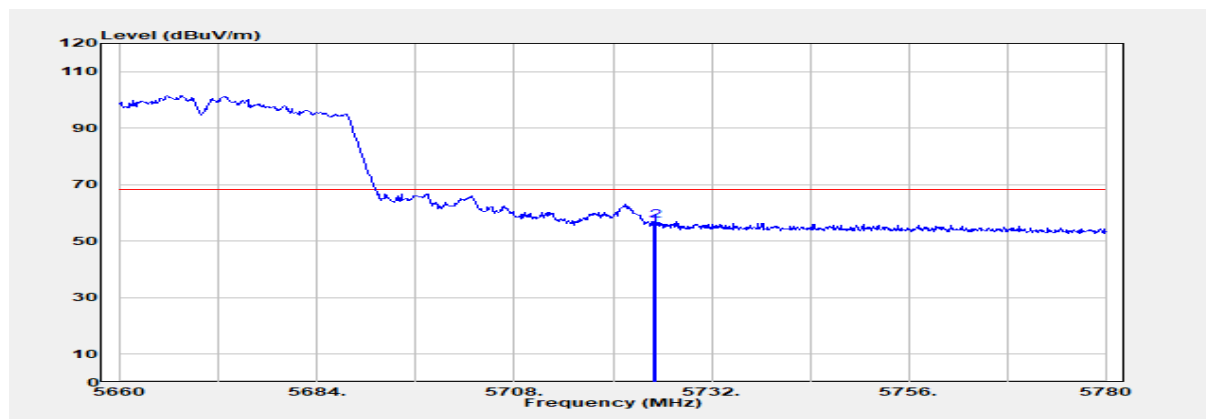
Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :16



| 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                         | 51.35                             | 4.21         | 55.56                  | 68.20                  | -12.64       |
| 5725.280     | Peak                         | 52.92                             | 4.21         | 57.13                  | 68.20                  | -11.07       |

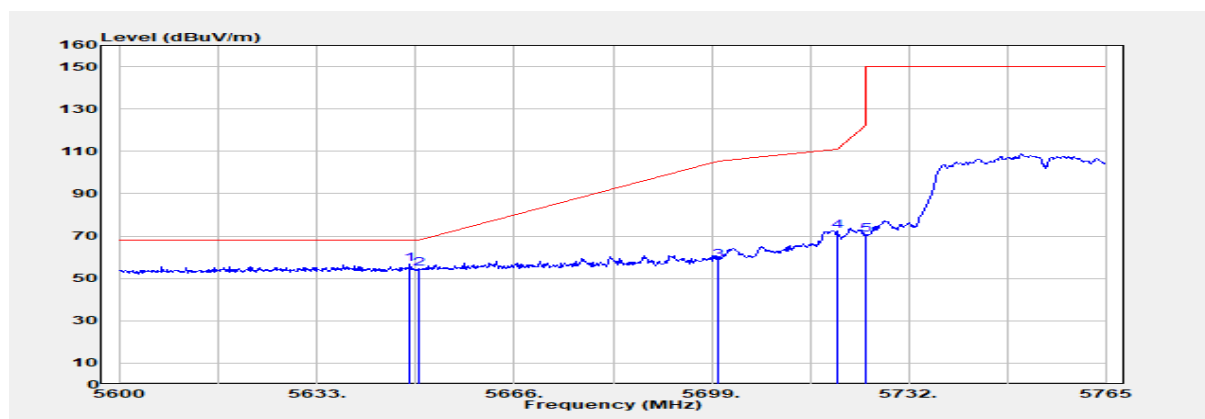
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Report Number :E2/2021/80020  
 Operation Mode :802.11ac40 / Band 4  
 Test Frequency :5755 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane  
 Setting :16.5

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :25.2/58  
 Antenna Pol. :Vertical  
 Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5648.510     | Peak                         | 53.03                             | 3.57         | 56.60                  | 68.20                  | -11.60       |
| 5650.000     | Peak                         | 50.95                             | 3.60         | 54.55                  | 68.20                  | -13.65       |
| 5700.000     | Peak                         | 55.34                             | 3.31         | 58.65                  | 105.20                 | -46.55       |
| 5720.000     | Peak                         | 68.03                             | 4.17         | 72.20                  | 110.80                 | -38.60       |
| 5725.000     | Peak                         | 66.62                             | 4.21         | 70.83                  | 122.20                 | -51.37       |

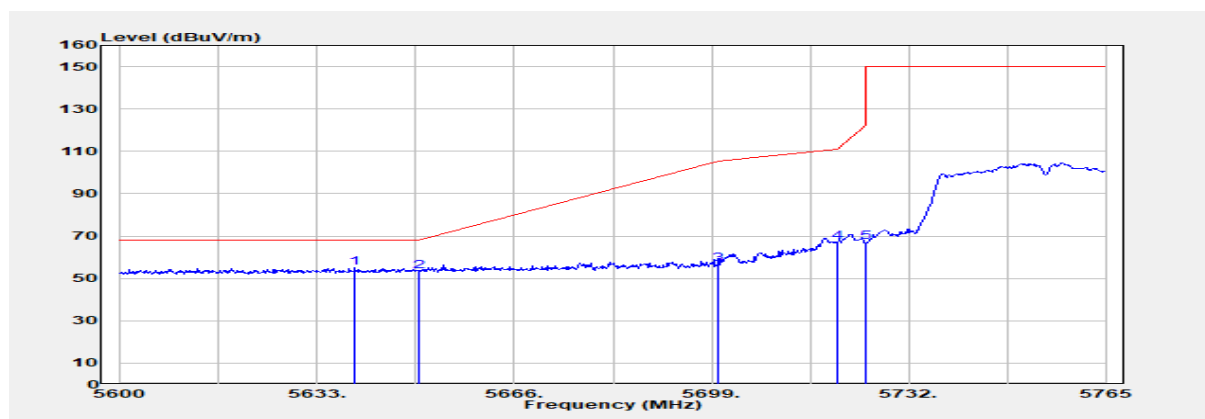
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Report Number :E2/2021/80020  
Operation Mode :802.11ac40 / Band 4  
Test Frequency :5755 MHz  
Test Mode :BE CH LOW  
EUT Pol :NB Plane  
Setting :16.5

Test Site :SAC G  
Test Date :2021-08-20  
Temp./Humi. :25.2/58  
Antenna Pol. :Horizontal  
Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5639.270     | Peak                         | 51.60                             | 3.42         | 55.02                  | 68.20                  | -13.18       |
| 5650.000     | Peak                         | 49.64                             | 3.60         | 53.24                  | 68.20                  | -14.96       |
| 5700.000     | Peak                         | 53.31                             | 3.31         | 56.62                  | 105.20                 | -48.58       |
| 5720.000     | Peak                         | 63.23                             | 4.17         | 67.40                  | 110.80                 | -43.40       |
| 5725.000     | Peak                         | 63.00                             | 4.21         | 67.21                  | 122.20                 | -54.99       |

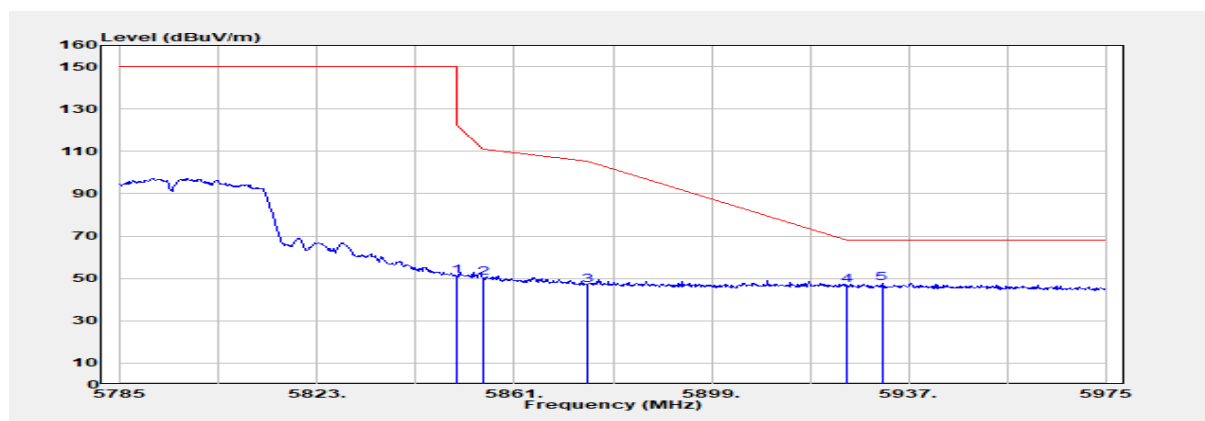
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Report Number :E2/2021/80020  
Operation Mode :802.11ac40 / Band 4  
Test Frequency :5775 MHz  
Test Mode :BE CH HIGH  
EUT Pol :NB Plane  
Setting :16.5

Test Site :SAC G  
Test Date :2021-08-20  
Temp./Humi. :25.2/58  
Antenna Pol. :Vertical  
Engineer :Ashton Chiu



| 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                         | 46.64                             | 4.31         | 50.95                  | 122.20                 | -71.25       |
| 5855.000     | Peak                         | 46.27                             | 4.21         | 50.48                  | 110.80                 | -60.32       |
| 5875.000     | Peak                         | 42.78                             | 3.90         | 46.68                  | 105.20                 | -58.52       |
| 5925.000     | Peak                         | 42.49                             | 4.36         | 46.84                  | 68.20                  | -21.36       |
| 5931.870     | Peak                         | 43.27                             | 4.30         | 47.57                  | 68.20                  | -20.63       |

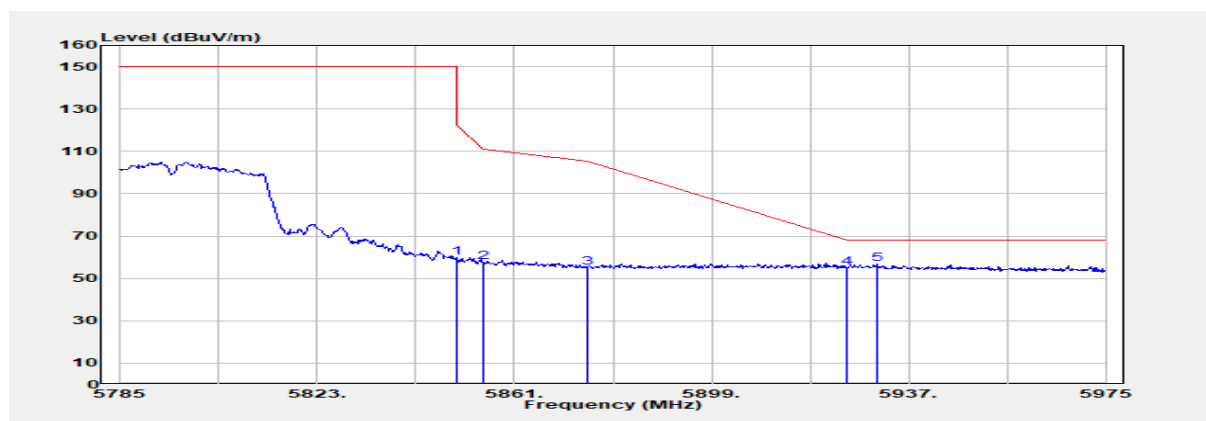
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Report Number :E2/2021/80020  
Operation Mode :802.11ac40 / Band 4  
Test Frequency :5775 MHz  
Test Mode :BE CH HIGH  
EUT Pol :NB Plane  
Setting :16.5

Test Site :SAC G  
Test Date :2021-08-20  
Temp./Humi. :25.2/58  
Antenna Pol. :Horizontal  
Engineer :Ashton Chiu



| 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                         | 55.34                             | 4.31         | 59.65                  | 122.20                 | -62.55       |
| 5855.000     | Peak                         | 53.57                             | 4.21         | 57.78                  | 110.80                 | -53.02       |
| 5875.000     | Peak                         | 51.20                             | 3.90         | 55.10                  | 105.20                 | -50.10       |
| 5925.000     | Peak                         | 50.81                             | 4.36         | 55.16                  | 68.20                  | -13.04       |
| 5931.110     | Peak                         | 52.29                             | 4.32         | 56.60                  | 68.20                  | -11.60       |

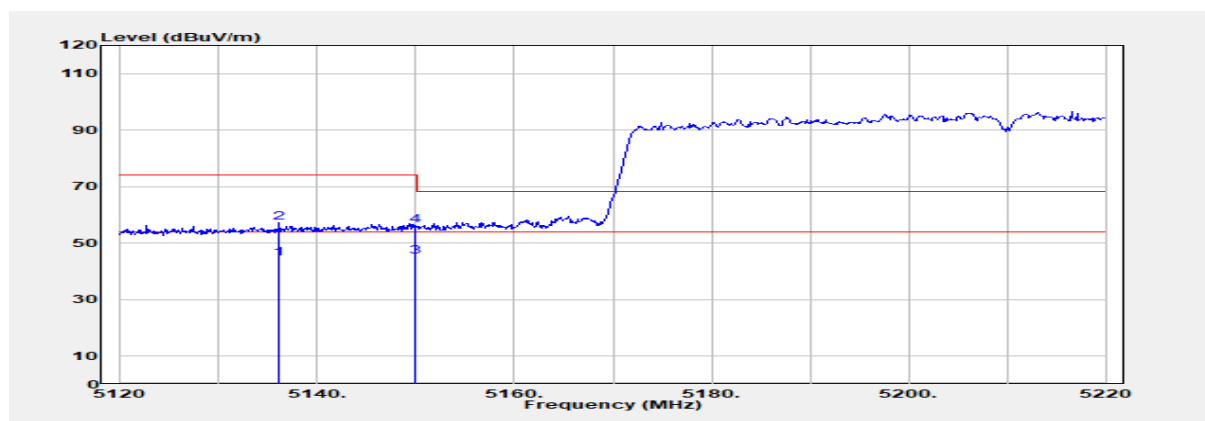
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Report Number :E2/2021/80020  
 Operation Mode :802.11ac80 / Band 1  
 Test Frequency :5210 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane  
 Setting :14

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :25.2/58  
 Antenna Pol. :Vertical  
 Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5136.100     | Average                      | 41.75                             | 2.75         | 44.50                  | 54.00                  | -9.50        |
| 5136.100     | Peak                         | 54.34                             | 2.75         | 57.09                  | 74.00                  | -16.91       |
| 5150.000     | Average                      | 42.17                             | 3.03         | 45.20                  | 54.00                  | -8.80        |
| 5150.000     | Peak                         | 53.15                             | 3.03         | 56.18                  | 74.00                  | -17.82       |

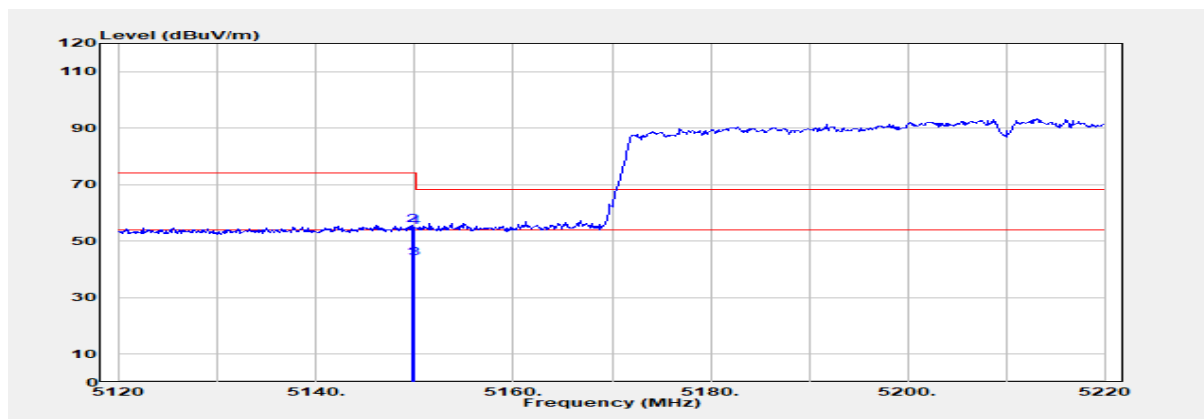
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Report Number :E2/2021/80020  
 Operation Mode :802.11ac80 / Band 1  
 Test Frequency :5210 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane  
 Setting :14

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :25.2/58  
 Antenna Pol. :Horizontal  
 Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 5149.800     | Average                      | 40.90                                   | 3.03         | 43.93                        | 54.00                        | -10.07       |
| 5149.800     | Peak                         | 52.69                                   | 3.03         | 55.72                        | 74.00                        | -18.28       |
| 5150.000     | Average                      | 41.03                                   | 3.03         | 44.06                        | 54.00                        | -9.94        |
| 5150.000     | Peak                         | 51.94                                   | 3.03         | 54.97                        | 74.00                        | -19.03       |

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Report Number :E2/2021/80020

Test Site :SAC G

Operation Mode :802.11ac80 / Band 2

Test Date :2021-08-20

Test Frequency :5290 MHz

Temp./Humi. :25.2/58

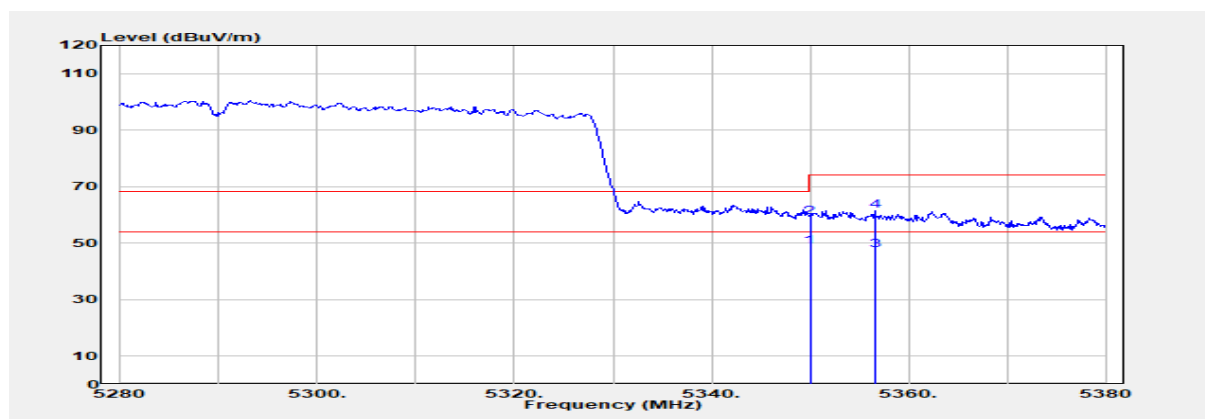
Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :14



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.000     | Average                      | 46.42                             | 2.21         | 48.63                  | 54.00                  | -5.37        |
| 5350.000     | Peak                         | 57.08                             | 2.21         | 59.29                  | 74.00                  | -14.71       |
| 5356.600     | Average                      | 45.25                             | 2.22         | 47.46                  | 54.00                  | -6.54        |
| 5356.600     | Peak                         | 59.21                             | 2.22         | 61.43                  | 74.00                  | -12.57       |

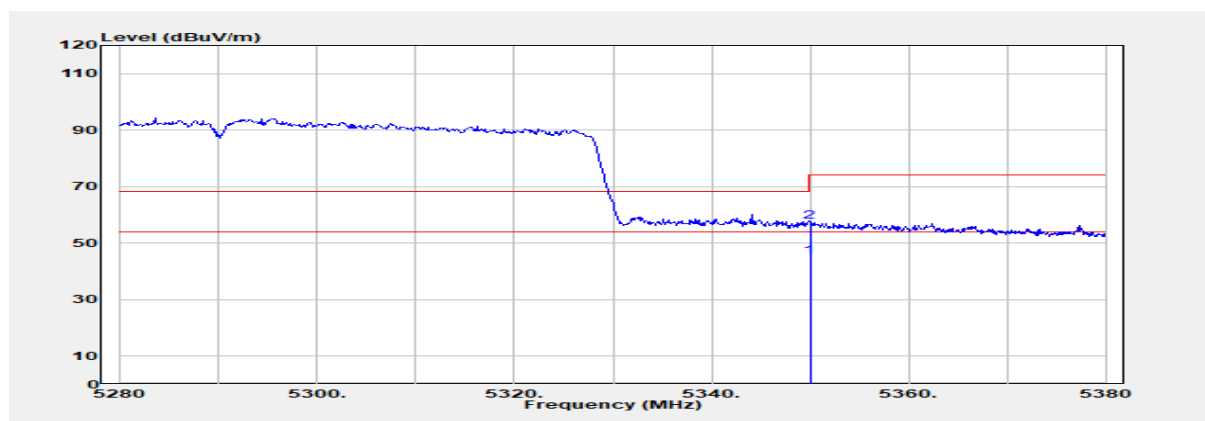
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Report Number :E2/2021/80020  
 Operation Mode :802.11ac80 / Band 2  
 Test Frequency :5290 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane  
 Setting :14

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :25.2/58  
 Antenna Pol. :Horizontal  
 Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.000     | Average                      | 42.91                             | 2.21         | 45.12                  | 54.00                  | -8.88        |
| 5350.000     | Peak                         | 55.47                             | 2.21         | 57.68                  | 74.00                  | -16.32       |

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Report Number :E2/2021/80020

Test Site :SAC G

Operation Mode :802.11ac80 / Band 3

Test Date :2021-08-23

Test Frequency :5530 MHz

Temp./Humi. :25.2/58

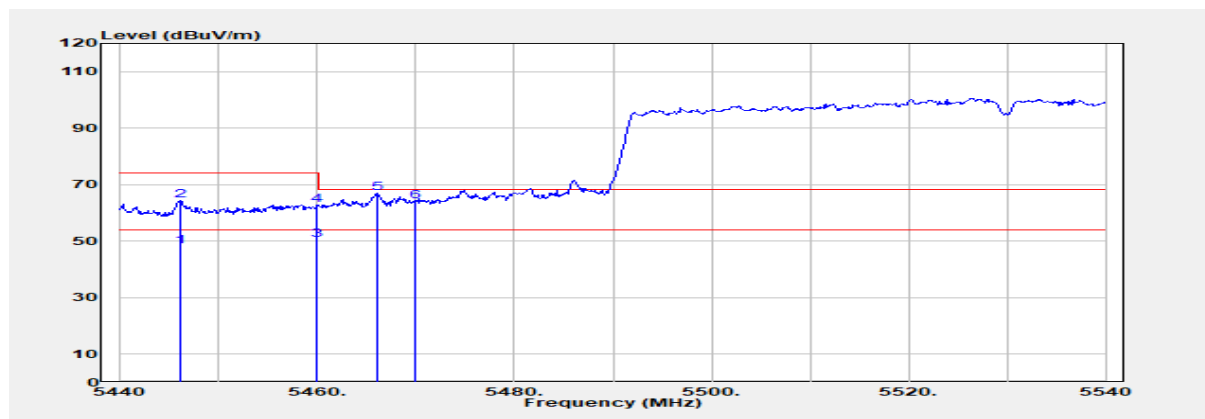
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :14.5



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5446.100     | Average                      | 45.71                             | 2.49         | 48.20                  | 54.00                  | -5.80        |
| 5446.100     | Peak                         | 61.78                             | 2.49         | 64.27                  | 74.00                  | -9.73        |
| 5460.000     | Average                      | 47.88                             | 2.64         | 50.52                  | 54.00                  | -3.48        |
| 5460.000     | Peak                         | 60.14                             | 2.64         | 62.78                  | 74.00                  | -11.22       |
| 5466.000     | Peak                         | 64.14                             | 2.72         | 66.85                  | 68.20                  | -1.35        |
| 5470.000     | Peak                         | 61.19                             | 2.77         | 63.96                  | 68.20                  | -4.24        |

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Report Number :E2/2021/80020

Test Site :SAC G

Operation Mode :802.11ac80 / Band 3

Test Date :2021-08-23

Test Frequency :5530 MHz

Temp./Humi. :25.2/58

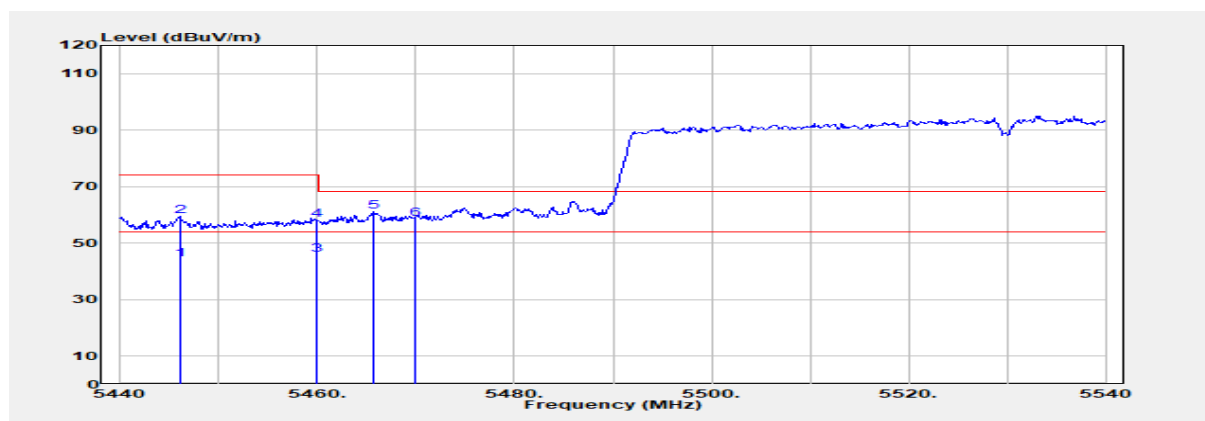
Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :14.5



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5446.000     | Average                      | 41.85                             | 2.48         | 44.33                  | 54.00                  | -9.67        |
| 5446.000     | Peak                         | 56.91                             | 2.48         | 59.39                  | 74.00                  | -14.61       |
| 5460.000     | Average                      | 43.22                             | 2.64         | 45.86                  | 54.00                  | -8.14        |
| 5460.000     | Peak                         | 55.44                             | 2.64         | 58.08                  | 74.00                  | -15.92       |
| 5465.600     | Peak                         | 58.47                             | 2.71         | 61.18                  | 68.20                  | -7.02        |
| 5470.000     | Peak                         | 55.76                             | 2.77         | 58.53                  | 68.20                  | -9.67        |

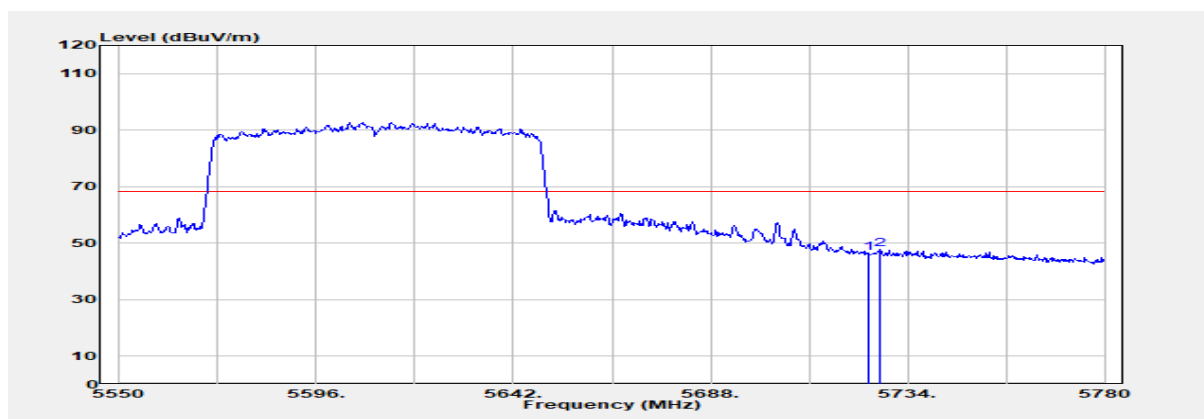
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Report Number :E2/2021/80020  
 Operation Mode :802.11ac80 / Band 3  
 Test Frequency :5610 MHz  
 Test Mode :BE CH MID  
 EUT Pol :NB Plane  
 Setting :17

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :25.2/58  
 Antenna Pol. :Vertical  
 Engineer :Ashton Chiu



| 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                         | 42.29                             | 4.21         | 46.50                  | 68.20                  | -21.70       |
| 5727.560     | Peak                         | 43.68                             | 4.23         | 47.91                  | 68.20                  | -20.29       |

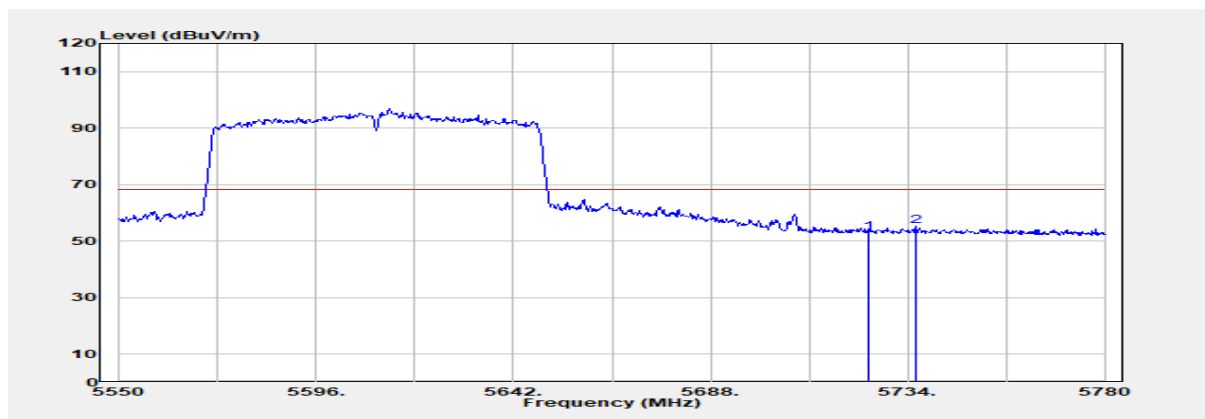
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Report Number :E2/2021/80020  
 Operation Mode :802.11ac80 / Band 3  
 Test Frequency :5610 MHz  
 Test Mode :BE CH MID  
 EUT Pol :NB Plane  
 Setting :17

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :25.2/58  
 Antenna Pol. :Horizontal  
 Engineer :Ashton Chiu



| 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                         | 48.86                             | 4.21         | 53.07                  | 68.20                  | -15.13       |
| 5736.070     | Peak                         | 51.10                             | 4.30         | 55.41                  | 68.20                  | -12.79       |

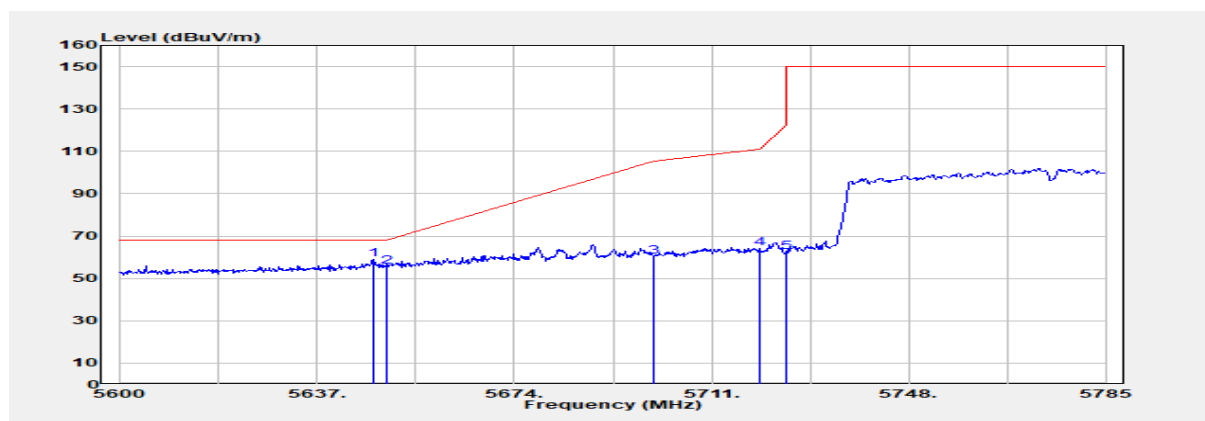
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Report Number :E2/2021/80020  
 Operation Mode :802.11ac80 / Band 4  
 Test Frequency :5775 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane  
 Setting :17

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :25.2/58  
 Antenna Pol. :Vertical  
 Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5647.360     | Peak                         | 55.30                             | 3.55         | 58.85                  | 68.20                  | -9.35        |
| 5650.000     | Peak                         | 52.02                             | 3.60         | 55.62                  | 68.20                  | -12.58       |
| 5700.000     | Peak                         | 57.12                             | 3.31         | 60.43                  | 105.20                 | -44.77       |
| 5720.000     | Peak                         | 59.98                             | 4.17         | 64.15                  | 110.80                 | -46.65       |
| 5725.000     | Peak                         | 58.26                             | 4.21         | 62.47                  | 122.20                 | -59.73       |

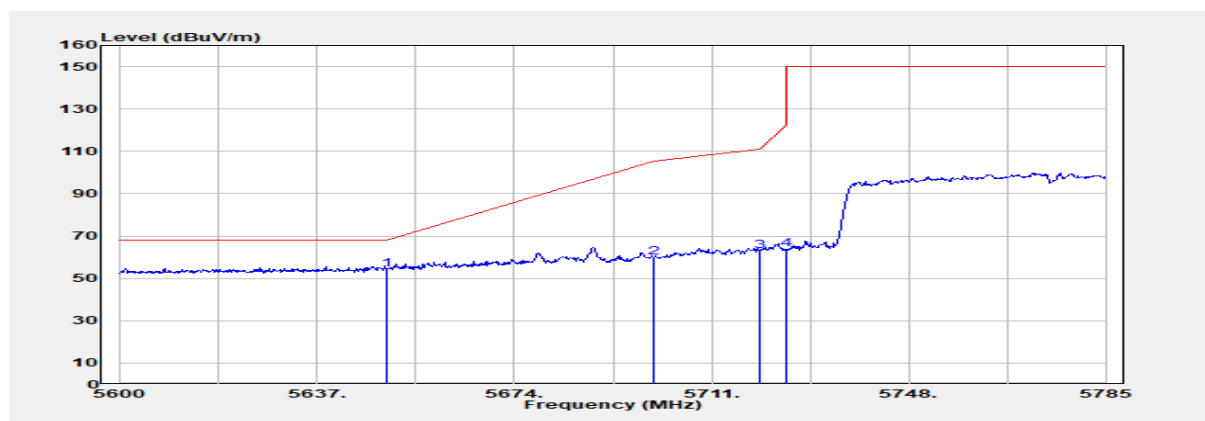
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Report Number :E2/2021/80020  
Operation Mode :802.11ac80 / Band 4  
Test Frequency :5775 MHz  
Test Mode :BE CH LOW  
EUT Pol :NB Plane  
Setting :17

Test Site :SAC G  
Test Date :2021-08-20  
Temp./Humi. :25.2/58  
Antenna Pol. :Horizontal  
Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5650.000     | Peak                         | 50.73                             | 3.60         | 54.33                  | 68.20                  | -13.87       |
| 5700.000     | Peak                         | 56.62                             | 3.31         | 59.93                  | 105.20                 | -45.27       |
| 5720.000     | Peak                         | 58.86                             | 4.17         | 63.03                  | 110.80                 | -47.77       |
| 5725.000     | Peak                         | 59.65                             | 4.21         | 63.86                  | 122.20                 | -58.34       |

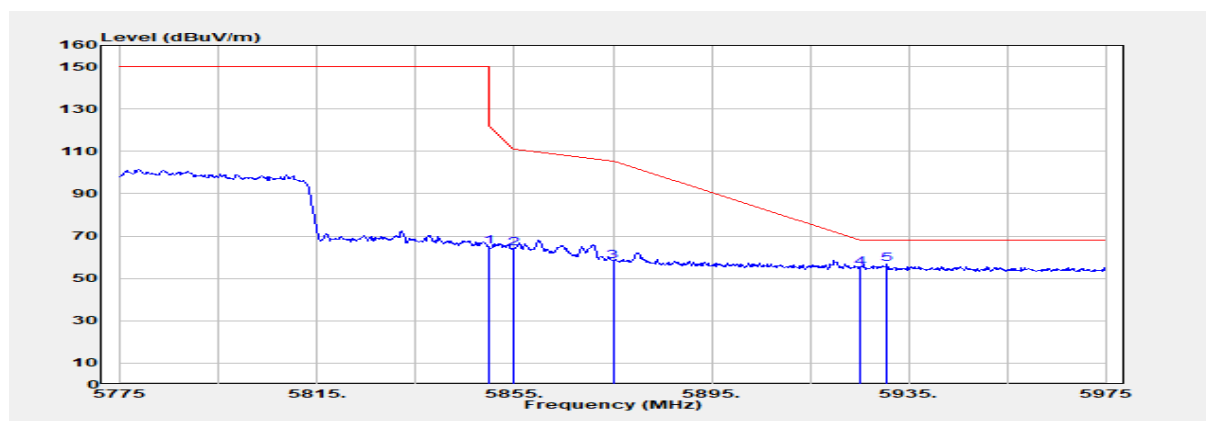
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Report Number :E2/2021/80020  
Operation Mode :802.11ac80 / Band 4  
Test Frequency :5775 MHz  
Test Mode :BE CH HIGH  
EUT Pol :NB Plane  
Setting :17

Test Site :SAC G  
Test Date :2021-08-20  
Temp./Humi. :25.2/58  
Antenna Pol. :Vertical  
Engineer :Ashton Chiu



| 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                         | 60.86                             | 4.31         | 65.17                  | 122.20                 | -57.03       |
| 5855.000     | Peak                         | 60.13                             | 4.21         | 64.34                  | 110.80                 | -46.46       |
| 5875.000     | Peak                         | 54.02                             | 3.90         | 57.92                  | 105.20                 | -47.28       |
| 5925.000     | Peak                         | 50.91                             | 4.36         | 55.27                  | 68.20                  | -12.93       |
| 5930.600     | Peak                         | 52.49                             | 4.33         | 56.82                  | 68.20                  | -11.38       |

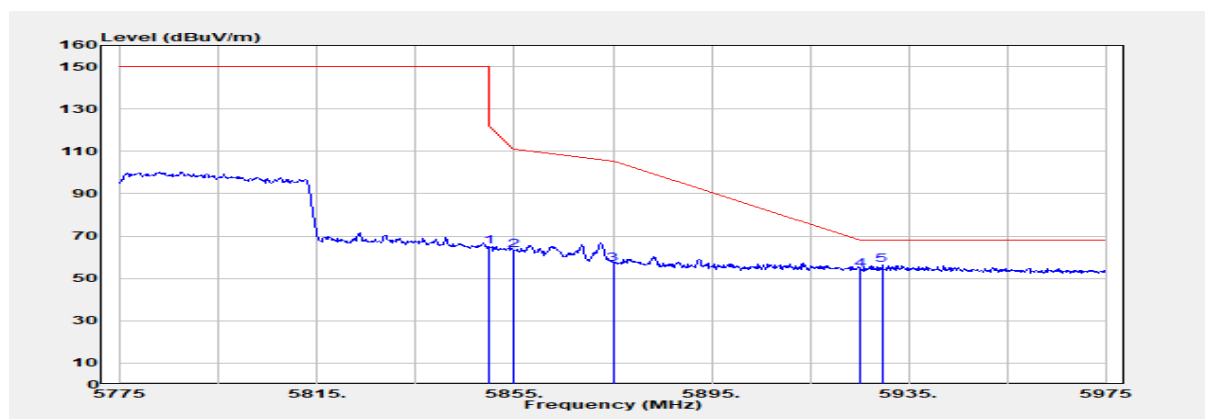
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Report Number :E2/2021/80020  
Operation Mode :802.11ac80 / Band 4  
Test Frequency :5775 MHz  
Test Mode :BE CH HIGH  
EUT Pol :NB Plane  
Setting :17

Test Site :SAC G  
Test Date :2021-08-20  
Temp./Humi. :25.2/58  
Antenna Pol. :Horizontal  
Engineer :Ashton Chiu



| 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                         | 60.77                             | 4.31         | 65.08                  | 122.20                 | -57.12       |
| 5855.000     | Peak                         | 59.04                             | 4.21         | 63.25                  | 110.80                 | -47.55       |
| 5875.000     | Peak                         | 52.94                             | 3.90         | 56.84                  | 105.20                 | -48.36       |
| 5925.000     | Peak                         | 49.73                             | 4.36         | 54.09                  | 68.20                  | -14.11       |
| 5929.600     | Peak                         | 51.89                             | 4.34         | 56.23                  | 68.20                  | -11.97       |

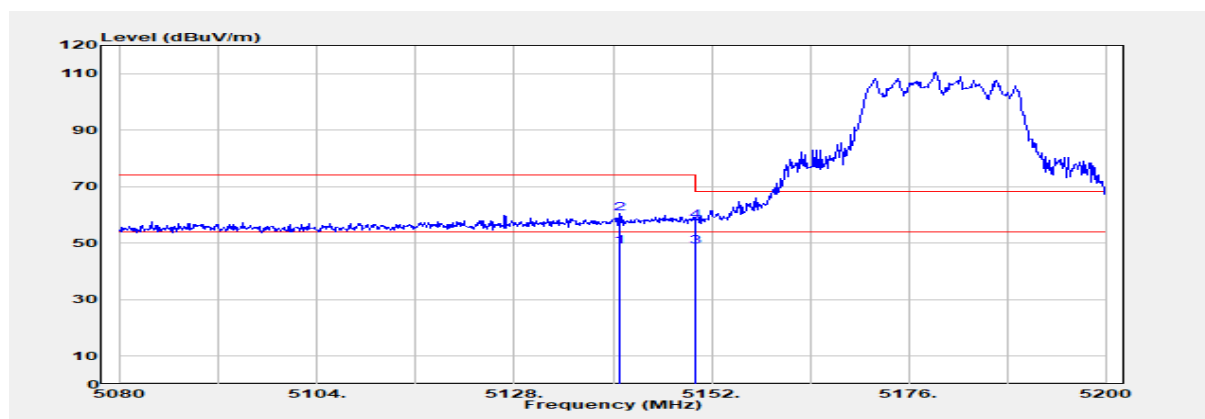
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Report Number :E2/2021/80020  
 Operation Mode :802.11ax20 / Band 1  
 Test Frequency :5180 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane  
 Setting :12.5

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :25.1/62  
 Antenna Pol. :Vertical  
 Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5140.720     | Average                      | 45.95                             | 2.81         | 48.75                  | 54.00                  | -5.25        |
| 5140.720     | Peak                         | 57.71                             | 2.81         | 60.51                  | 74.00                  | -13.49       |
| 5150.000     | Average                      | 45.90                             | 3.03         | 48.93                  | 54.00                  | -5.07        |
| 5150.000     | Peak                         | 54.97                             | 3.03         | 58.00                  | 74.00                  | -16.00       |

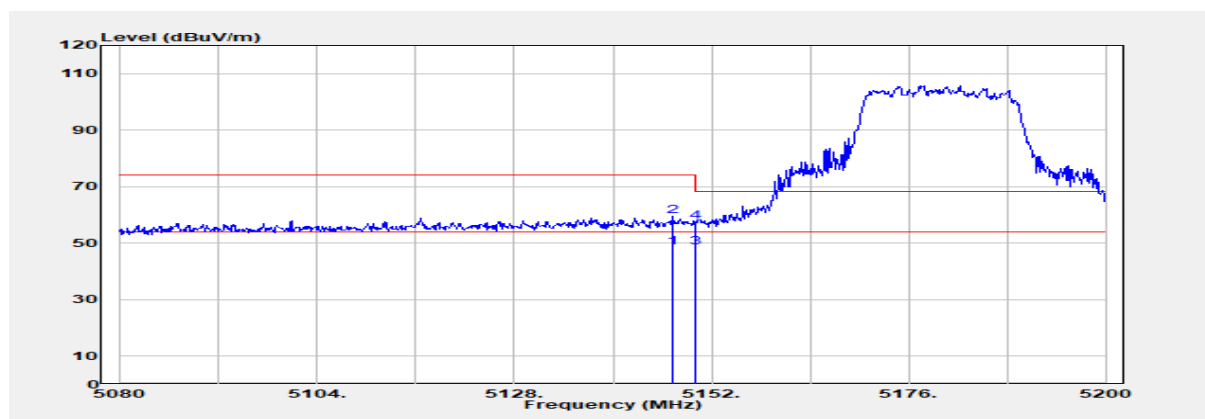
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Report Number :E2/2021/80020  
 Operation Mode :802.11ax20 / Band 1  
 Test Frequency :5180 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane  
 Setting :12.5

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :25.1/62  
 Antenna Pol. :Horizontal  
 Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5147.200     | Average                      | 45.47                             | 2.96         | 48.43                  | 54.00                  | -5.57        |
| 5147.200     | Peak                         | 56.40                             | 2.96         | 59.36                  | 74.00                  | -14.64       |
| 5150.000     | Average                      | 45.55                             | 3.03         | 48.58                  | 54.00                  | -5.42        |
| 5150.000     | Peak                         | 54.41                             | 3.03         | 57.44                  | 74.00                  | -16.56       |

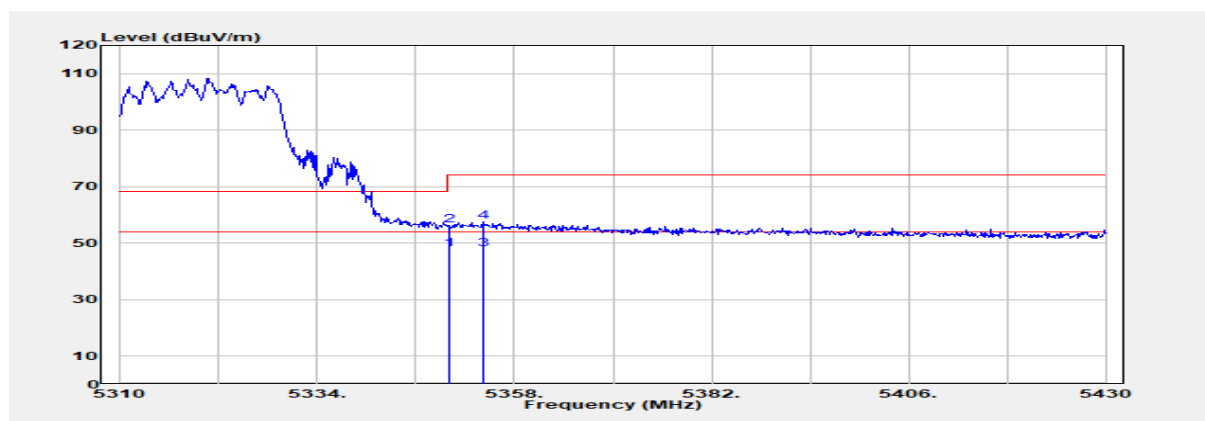
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Report Number :E2/2021/80020  
 Operation Mode :802.11ax20 / Band 2  
 Test Frequency :5320 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane  
 Setting :13

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :24.8/61  
 Antenna Pol. :Vertical  
 Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.000     | Average                      | 45.65                             | 2.21         | 47.86                  | 54.00                  | -6.14        |
| 5350.000     | Peak                         | 54.20                             | 2.21         | 56.41                  | 74.00                  | -17.59       |
| 5354.160     | Average                      | 45.57                             | 2.21         | 47.78                  | 54.00                  | -6.22        |
| 5354.160     | Peak                         | 55.51                             | 2.21         | 57.72                  | 74.00                  | -16.28       |

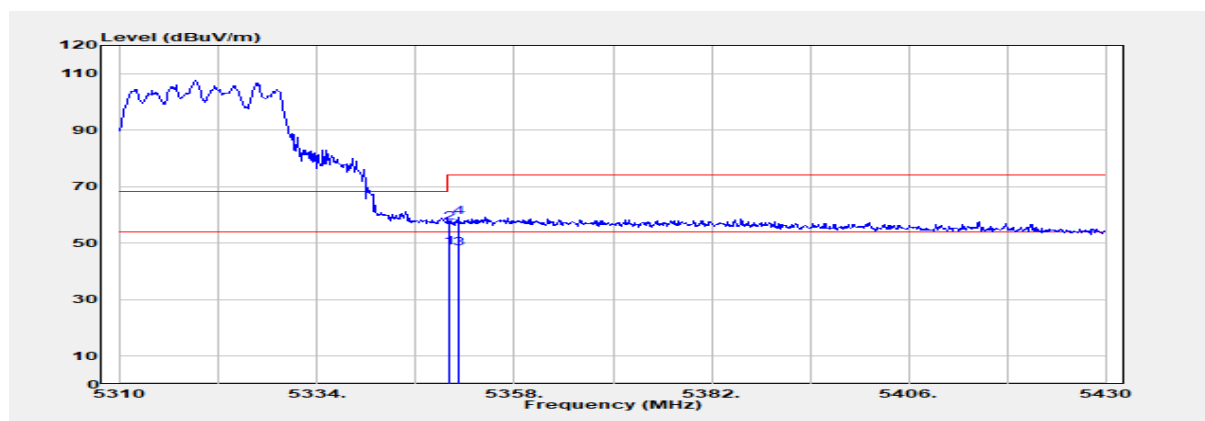
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Report Number :E2/2021/80020  
Operation Mode :802.11ax20 / Band 2  
Test Frequency :5320 MHz  
Test Mode :BE CH HIGH  
EUT Pol :NB Plane  
Setting :13

Test Site :SAC G  
Test Date :2021-08-20  
Temp./Humi. :24.8/61  
Antenna Pol. :Horizontal  
Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.000     | Average                      | 46.38                             | 2.21         | 48.59                  | 54.00                  | -5.41        |
| 5350.000     | Peak                         | 55.14                             | 2.21         | 57.35                  | 74.00                  | -16.65       |
| 5351.160     | Average                      | 46.04                             | 2.21         | 48.25                  | 54.00                  | -5.75        |
| 5351.160     | Peak                         | 57.13                             | 2.21         | 59.34                  | 74.00                  | -14.66       |

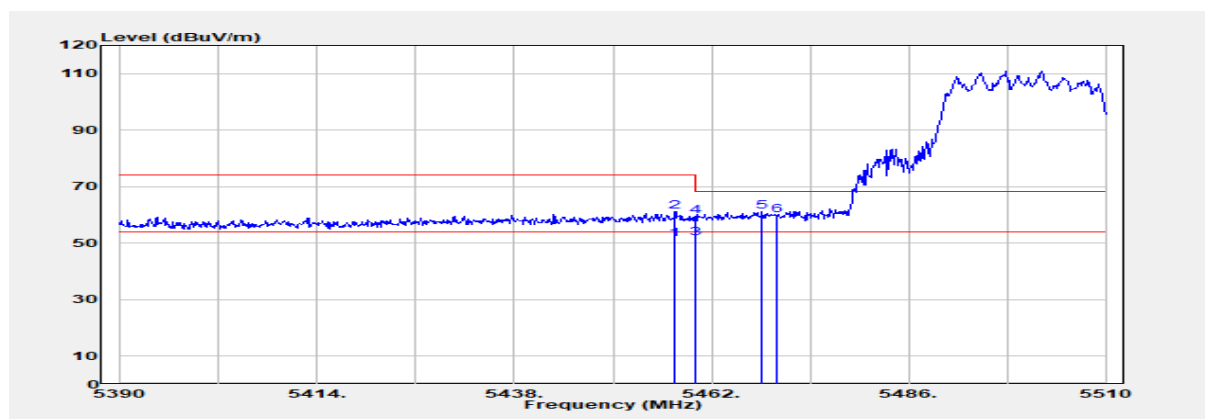
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Report Number :E2/2021/80020  
Operation Mode :802.11ax20 / Band 3  
Test Frequency :5500 MHz  
Test Mode :BE CH LOW  
EUT Pol :NB Plane  
Setting :13

Test Site :SAC G  
Test Date :2021-08-20  
Temp./Humi. :24.8/61  
Antenna Pol. :Vertical  
Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5457.560     | Average                      | 48.81                             | 2.63         | 51.44                  | 54.00                  | -2.56        |
| 5457.560     | Peak                         | 58.58                             | 2.63         | 61.21                  | 74.00                  | -12.79       |
| 5460.000     | Average                      | 49.15                             | 2.64         | 51.79                  | 54.00                  | -2.21        |
| 5460.000     | Peak                         | 56.84                             | 2.64         | 59.48                  | 74.00                  | -14.52       |
| 5468.120     | Peak                         | 58.42                             | 2.75         | 61.17                  | 68.20                  | -7.03        |
| 5470.000     | Peak                         | 57.01                             | 2.77         | 59.78                  | 68.20                  | -8.42        |

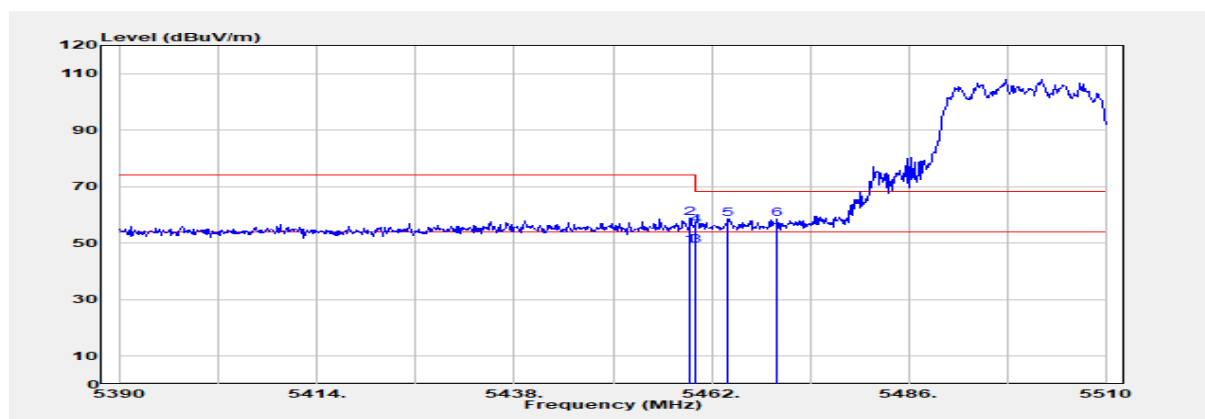
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Report Number :E2/2021/80020  
Operation Mode :802.11ax20 / Band 3  
Test Frequency :5500 MHz  
Test Mode :BE CH LOW  
EUT Pol :NB Plane  
Setting :13

Test Site :SAC G  
Test Date :2021-08-20  
Temp./Humi. :24.8/61  
Antenna Pol. :Horizontal  
Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5459.360     | Average                      | 46.50                             | 2.64         | 49.14                  | 54.00                  | -4.86        |
| 5459.360     | Peak                         | 56.35                             | 2.64         | 58.99                  | 74.00                  | -15.01       |
| 5460.000     | Average                      | 46.50                             | 2.64         | 49.14                  | 54.00                  | -4.86        |
| 5460.000     | Peak                         | 53.56                             | 2.64         | 56.20                  | 74.00                  | -17.80       |
| 5464.040     | Peak                         | 55.82                             | 2.69         | 58.51                  | 68.20                  | -9.69        |
| 5470.000     | Peak                         | 55.66                             | 2.77         | 58.43                  | 68.20                  | -9.77        |

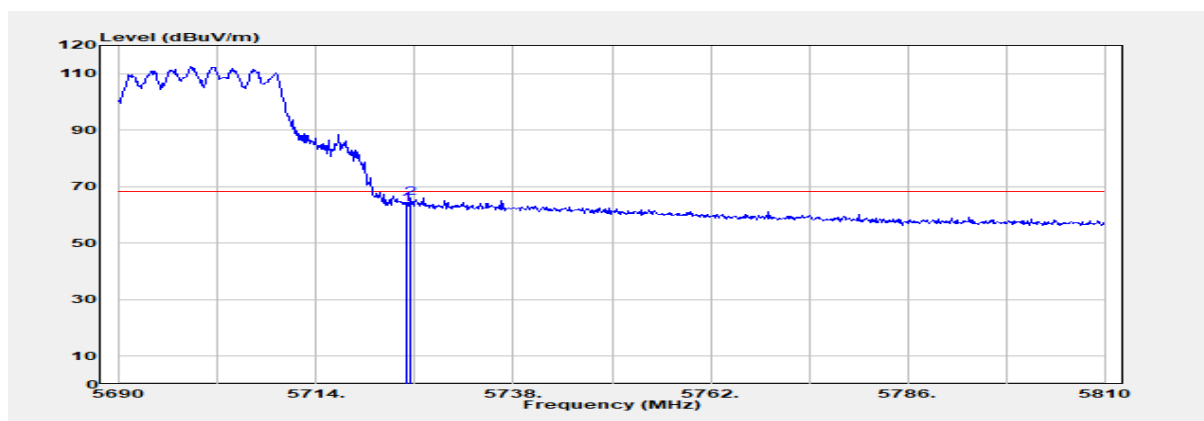
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Report Number :E2/2021/80020  
 Operation Mode :802.11ax20 / Band 3  
 Test Frequency :5700 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane  
 Setting :14

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :25.9/64  
 Antenna Pol. :Vertical  
 Engineer :Ashton Chiu



| 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                         | 59.45                                   | 4.21         | 63.66                        | 68.20                        | -4.54        |
| 5725.400     | Peak                         | 61.75                                   | 4.21         | 65.97                        | 68.20                        | -2.23        |

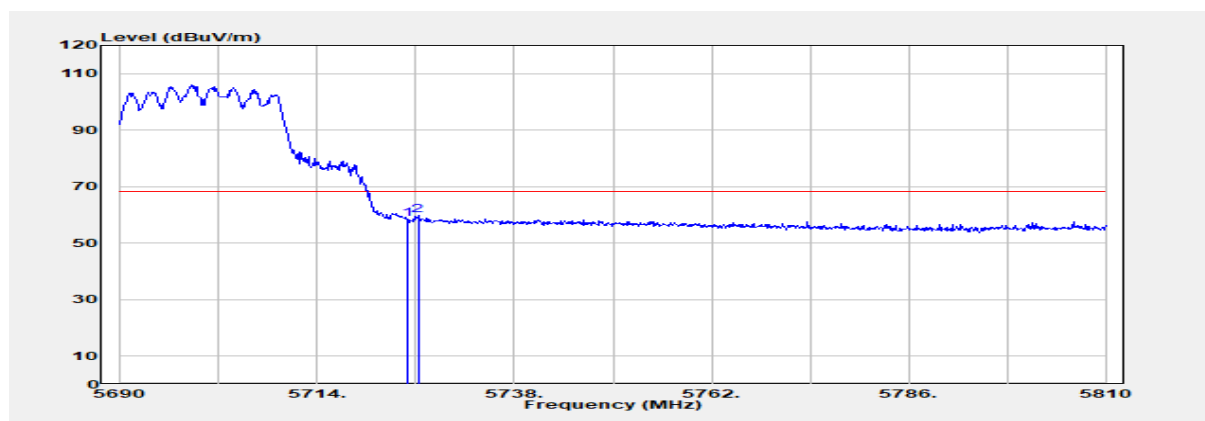
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Report Number :E2/2021/80020  
 Operation Mode :802.11ax20 / Band 3  
 Test Frequency :5700 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane  
 Setting :14

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :25.9/64  
 Antenna Pol. :Horizontal  
 Engineer :Ashton Chiu



| 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                         | 54.39                             | 4.21         | 58.60                  | 68.20                  | -9.60        |
| 5726.240     | Peak                         | 55.70                             | 4.22         | 59.92                  | 68.20                  | -8.28        |

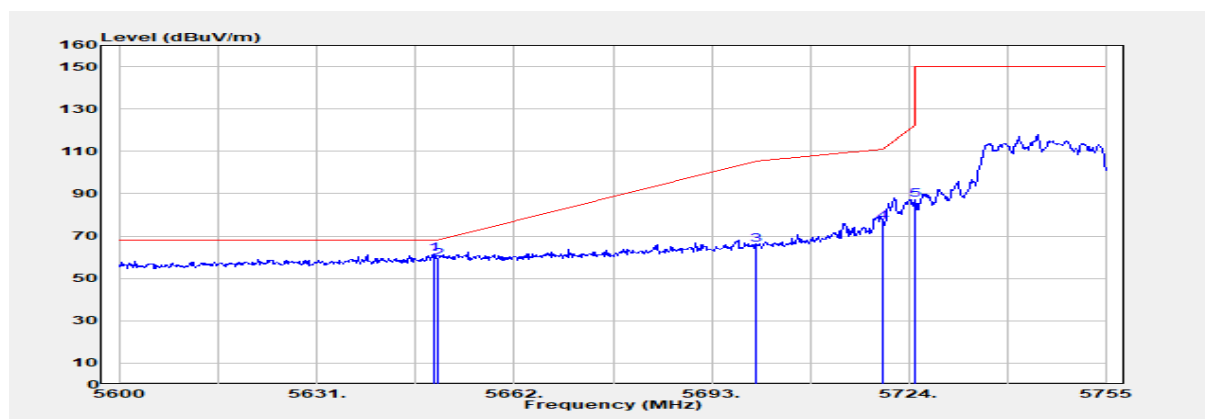
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Report Number :E2/2021/80020  
Operation Mode :802.11ax20 / Band 4  
Test Frequency :5745 MHz  
Test Mode :BE CH LOW  
EUT Pol :NB Plane  
Setting :19.5

Test Site :SAC G  
Test Date :2021-08-23  
Temp./Humi. :22.6/66  
Antenna Pol. :Vertical  
Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 5649.290     | Peak                         | 57.80                                   | 3.59         | 61.38                        | 68.20                        | -6.82        |
| 5650.000     | Peak                         | 55.47                                   | 3.60         | 59.07                        | 68.20                        | -9.13        |
| 5700.000     | Peak                         | 62.52                                   | 3.31         | 65.83                        | 105.20                       | -39.37       |
| 5720.000     | Peak                         | 72.69                                   | 4.17         | 76.86                        | 110.80                       | -33.94       |
| 5725.000     | Peak                         | 83.05                                   | 4.21         | 87.26                        | 122.20                       | -34.94       |

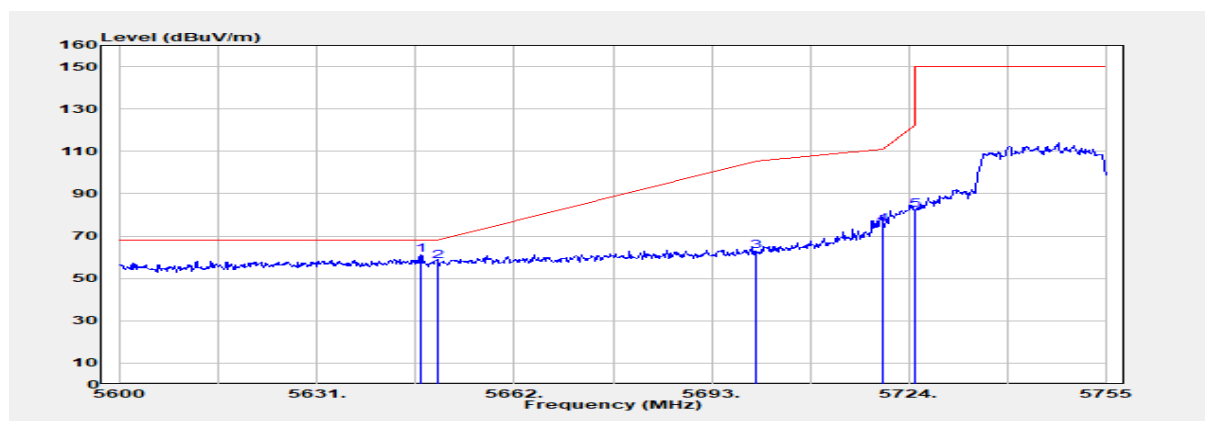
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Report Number :E2/2021/80020  
 Operation Mode :802.11ax20 / Band 4  
 Test Frequency :5745 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane  
 Setting :19.5

Test Site :SAC G  
 Test Date :2021-08-23  
 Temp./Humi. :22.6/66  
 Antenna Pol. :Horizontal  
 Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5647.275     | Peak                         | 57.40                             | 3.55         | 60.95                  | 68.20                  | -7.25        |
| 5650.000     | Peak                         | 54.34                             | 3.60         | 57.94                  | 68.20                  | -10.26       |
| 5700.000     | Peak                         | 59.64                             | 3.31         | 62.95                  | 105.20                 | -42.25       |
| 5720.000     | Peak                         | 71.49                             | 4.17         | 75.66                  | 110.80                 | -35.14       |
| 5725.000     | Peak                         | 78.39                             | 4.21         | 82.60                  | 122.20                 | -39.60       |

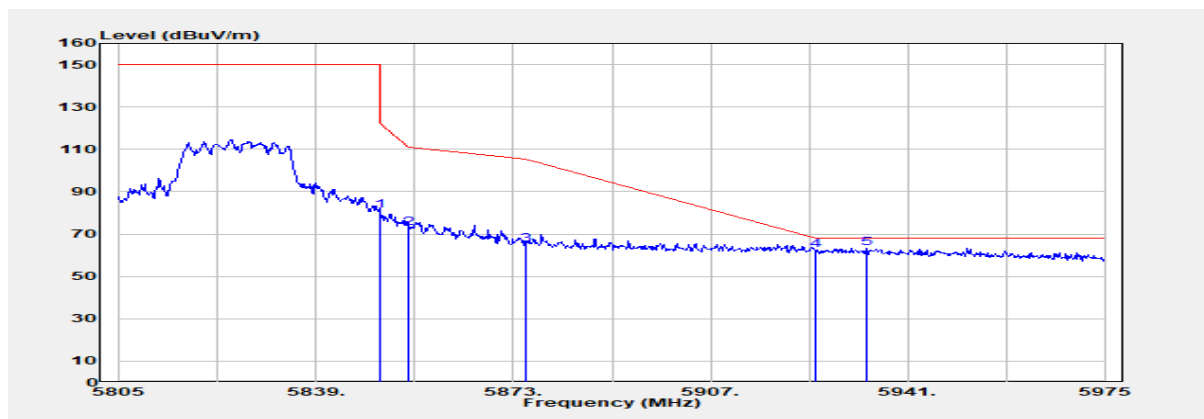
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Report Number :E2/2021/80020  
 Operation Mode :802.11ax20 / Band 4  
 Test Frequency :5825 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane  
 Setting :20.5

Test Site :SAC G  
 Test Date :2021-08-23  
 Temp./Humi. :22.6/66  
 Antenna Pol. :Vertical  
 Engineer :Ashton Chiu



| 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                         | 76.84                             | 4.31         | 81.15                  | 122.20                 | -41.05       |
| 5855.000     | Peak                         | 68.57                             | 4.21         | 72.78                  | 110.80                 | -38.02       |
| 5875.000     | Peak                         | 60.96                             | 3.90         | 64.86                  | 105.20                 | -40.34       |
| 5925.000     | Peak                         | 57.89                             | 4.36         | 62.24                  | 68.20                  | -5.96        |
| 5933.860     | Peak                         | 59.15                             | 4.26         | 63.41                  | 68.20                  | -4.79        |

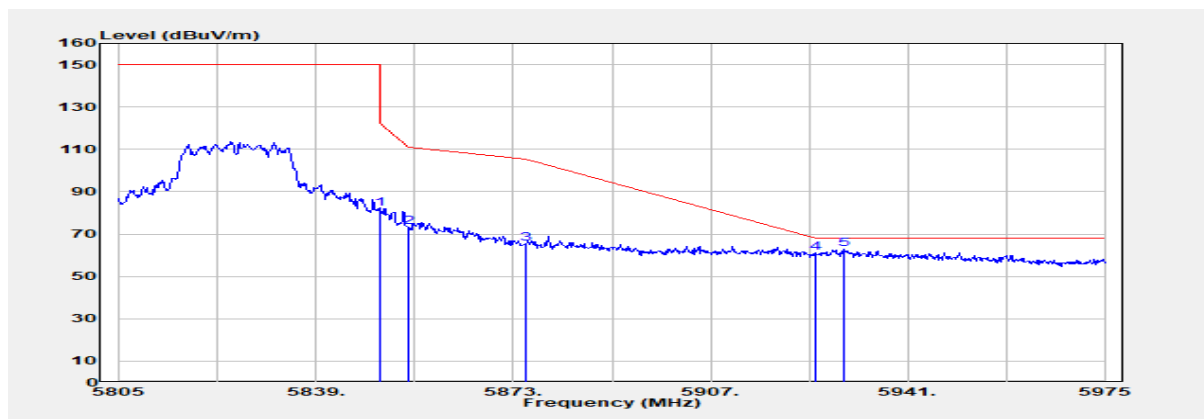
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Report Number :E2/2021/80020  
 Operation Mode :802.11ax20 / Band 4  
 Test Frequency :5825 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane  
 Setting :20.5

Test Site :SAC G  
 Test Date :2021-08-23  
 Temp./Humi. :22.6/66  
 Antenna Pol. :Horizontal  
 Engineer :Ashton Chiu



| 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                         | 77.73                             | 4.31         | 82.04                  | 122.20                 | -40.16       |
| 5855.000     | Peak                         | 69.03                             | 4.21         | 73.24                  | 110.80                 | -37.56       |
| 5875.000     | Peak                         | 61.38                             | 3.90         | 65.28                  | 105.20                 | -39.92       |
| 5925.000     | Peak                         | 56.73                             | 4.36         | 61.09                  | 68.20                  | -7.11        |
| 5929.950     | Peak                         | 58.38                             | 4.34         | 62.72                  | 68.20                  | -5.48        |

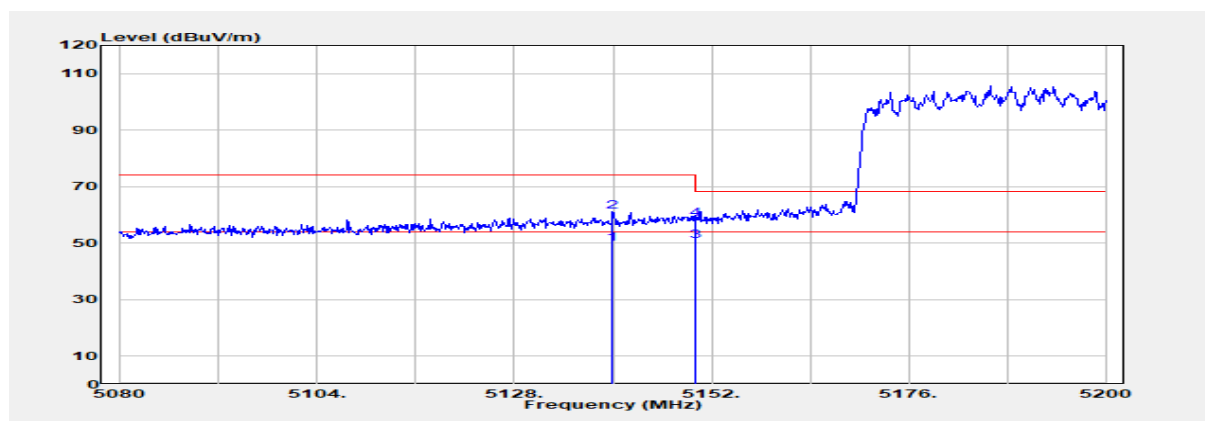
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Report Number :E2/2021/80020  
 Operation Mode :802.11ax40 / Band 1  
 Test Frequency :5190 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane  
 Setting :13.5

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :24.8/61  
 Antenna Pol. :Vertical  
 Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5140.000     | Average                      | 46.98                             | 2.79         | 49.77                  | 54.00                  | -4.23        |
| 5140.000     | Peak                         | 58.29                             | 2.79         | 61.08                  | 74.00                  | -12.92       |
| 5150.000     | Average                      | 47.54                             | 3.03         | 50.57                  | 54.00                  | -3.43        |
| 5150.000     | Peak                         | 55.66                             | 3.03         | 58.69                  | 74.00                  | -15.31       |

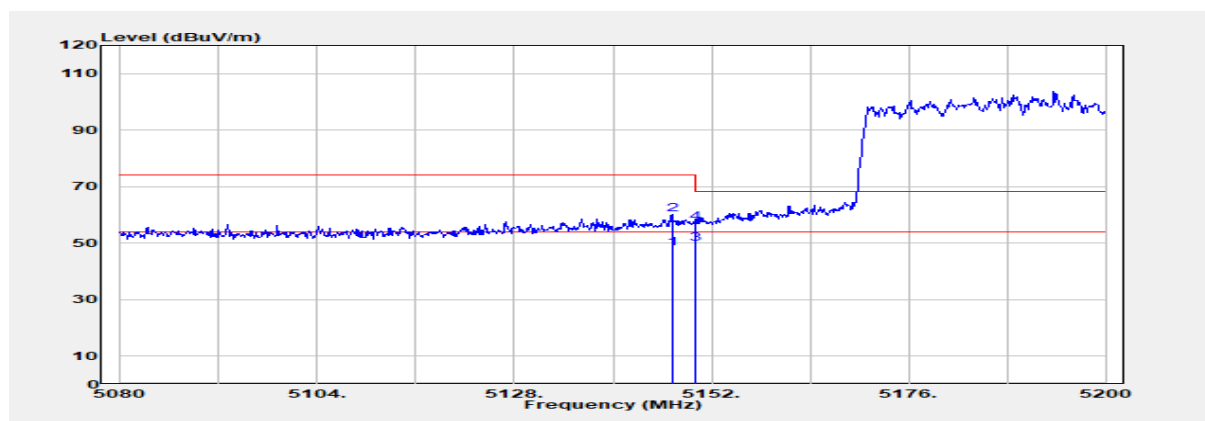
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Report Number :E2/2021/80020  
Operation Mode :802.11ax40 / Band 1  
Test Frequency :5190 MHz  
Test Mode :BE CH LOW  
EUT Pol :NB Plane  
Setting :13.5

Test Site :SAC G  
Test Date :2021-08-20  
Temp./Humi. :24.8/61  
Antenna Pol. :Horizontal  
Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5147.200     | Average                      | 45.20                             | 2.96         | 48.16                  | 54.00                  | -5.84        |
| 5147.200     | Peak                         | 57.08                             | 2.96         | 60.04                  | 74.00                  | -13.96       |
| 5150.000     | Average                      | 46.80                             | 3.03         | 49.83                  | 54.00                  | -4.17        |
| 5150.000     | Peak                         | 54.36                             | 3.03         | 57.39                  | 74.00                  | -16.61       |

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Report Number :E2/2021/80020

Test Site :SAC G

Operation Mode :802.11ax40 / Band 2

Test Date :2021-08-20

Test Frequency :5310 MHz

Temp./Humi. :24.8/61

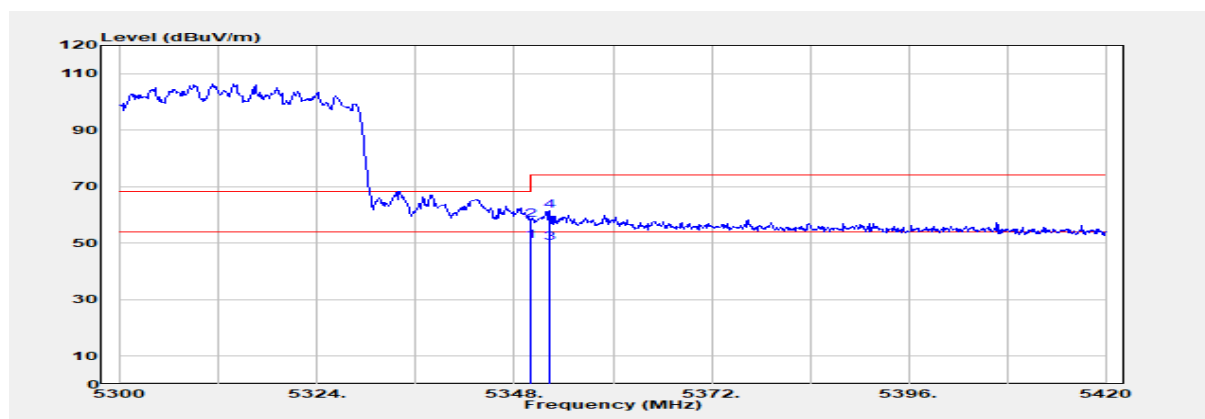
Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :13.5



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.000     | Average                      | 48.63                             | 2.21         | 50.84                  | 54.00                  | -3.16        |
| 5350.000     | Peak                         | 56.13                             | 2.21         | 58.34                  | 74.00                  | -15.66       |
| 5352.320     | Average                      | 47.97                             | 2.21         | 50.18                  | 54.00                  | -3.82        |
| 5352.320     | Peak                         | 59.32                             | 2.21         | 61.53                  | 74.00                  | -12.47       |

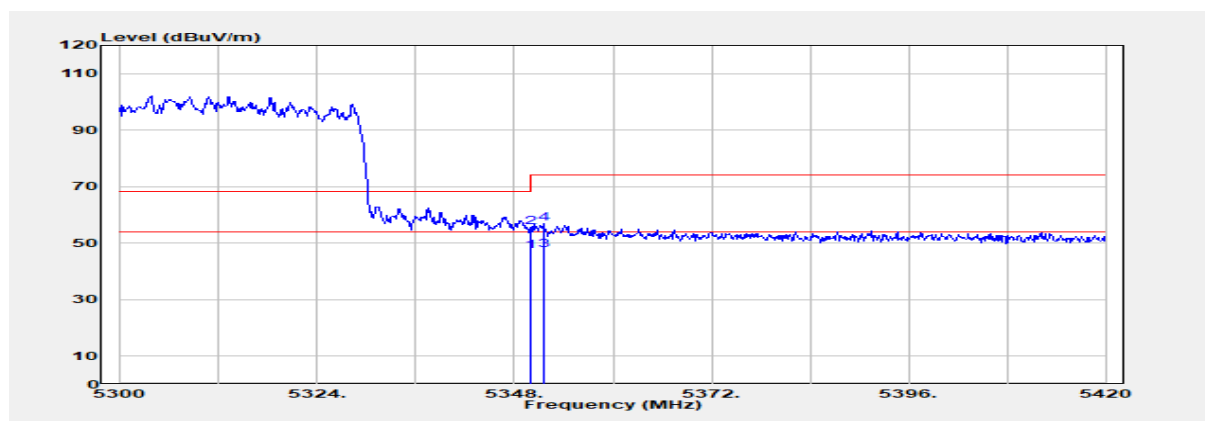
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Report Number :E2/2021/80020  
 Operation Mode :802.11ax40 / Band 2  
 Test Frequency :5310 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane  
 Setting :13.5

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :24.8/61  
 Antenna Pol. :Horizontal  
 Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.000     | Average                      | 44.88                             | 2.21         | 47.09                  | 54.00                  | -6.92        |
| 5350.000     | Peak                         | 53.35                             | 2.21         | 55.56                  | 74.00                  | -18.44       |
| 5351.480     | Average                      | 45.16                             | 2.21         | 47.37                  | 54.00                  | -6.63        |
| 5351.480     | Peak                         | 54.77                             | 2.21         | 56.98                  | 74.00                  | -17.02       |

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Report Number :E2/2021/80020

Test Site :SAC G

Operation Mode :802.11ax40 / Band 3

Test Date :2021-08-20

Test Frequency :5510 MHz

Temp./Humi. :24.8/61

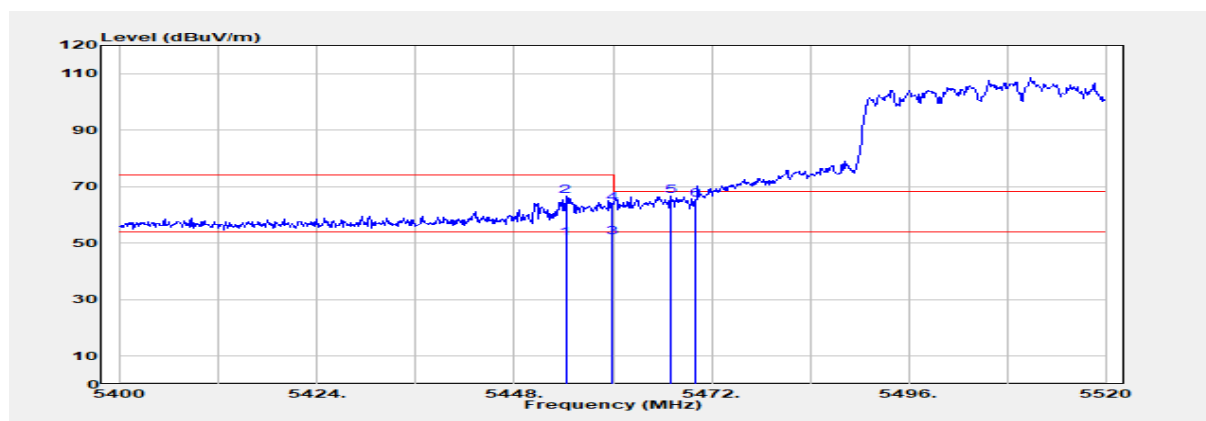
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :14



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5454.240     | Average                      | 49.07                             | 2.62         | 51.69                  | 54.00                  | -2.31        |
| 5454.240     | Peak                         | 63.95                             | 2.62         | 66.57                  | 74.00                  | -7.43        |
| 5460.000     | Average                      | 49.23                             | 2.64         | 51.87                  | 54.00                  | -2.13        |
| 5460.000     | Peak                         | 61.31                             | 2.64         | 63.95                  | 74.00                  | -10.05       |
| 5466.960     | Peak                         | 64.05                             | 2.73         | 66.78                  | 68.20                  | -1.42        |
| 5470.000     | Peak                         | 62.66                             | 2.77         | 65.43                  | 68.20                  | -2.77        |

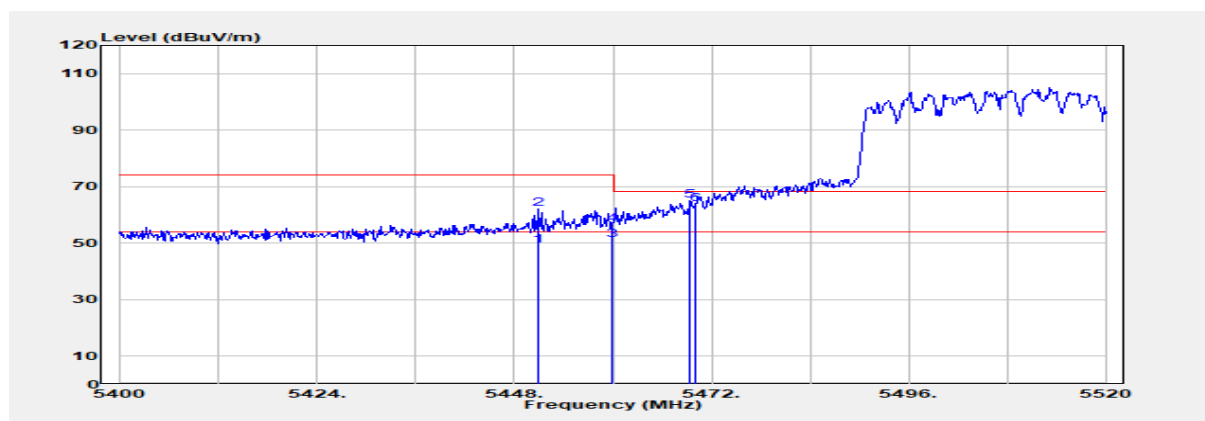
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Report Number :E2/2021/80020  
 Operation Mode :802.11ax40 / Band 3  
 Test Frequency :5510 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane  
 Setting :14

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :24.8/61  
 Antenna Pol. :Horizontal  
 Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5451.000     | Average                      | 46.47                             | 2.60         | 49.08                  | 54.00                  | -4.92        |
| 5451.000     | Peak                         | 59.36                             | 2.60         | 61.96                  | 74.00                  | -12.04       |
| 5460.000     | Average                      | 48.30                             | 2.64         | 50.94                  | 54.00                  | -3.06        |
| 5460.000     | Peak                         | 54.05                             | 2.64         | 56.69                  | 74.00                  | -17.31       |
| 5469.360     | Peak                         | 62.38                             | 2.76         | 65.15                  | 68.20                  | -3.05        |
| 5470.000     | Peak                         | 61.01                             | 2.77         | 63.78                  | 68.20                  | -4.42        |

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Report Number :E2/2021/80020

Test Site :SAC G

Operation Mode :802.11ax40 / Band 3

Test Date :2021-08-23

Test Frequency :5670 MHz

Temp./Humi. :24.3/61

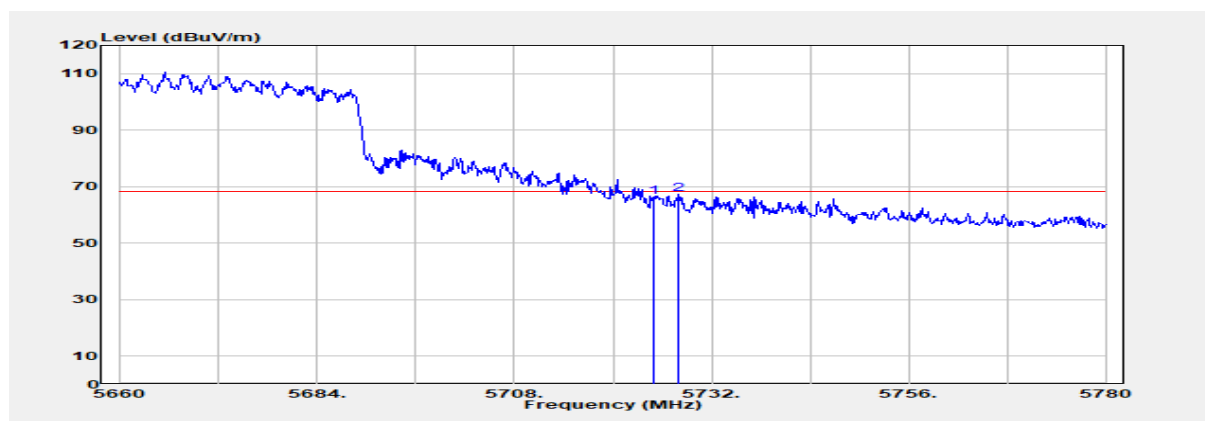
Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :19



| 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                         | 61.98                             | 4.21         | 66.19                  | 68.20                  | -2.01        |
| 5728.040     | Peak                         | 63.06                             | 4.23         | 67.30                  | 68.20                  | -0.90        |

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Report Number :E2/2021/80020

Test Site :SAC G

Operation Mode :802.11ax40 / Band 3

Test Date :2021-08-23

Test Frequency :5670 MHz

Temp./Humi. :24.3/61

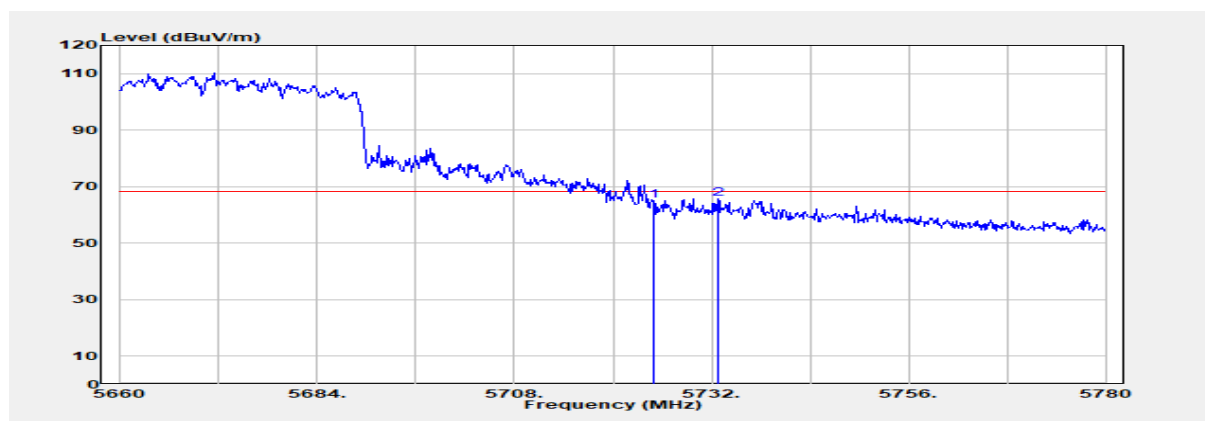
Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :19



| 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                         | 60.94                             | 4.21         | 65.15                  | 68.20                  | -3.05        |
| 5732.720     | Peak                         | 61.45                             | 4.27         | 65.73                  | 68.20                  | -2.47        |

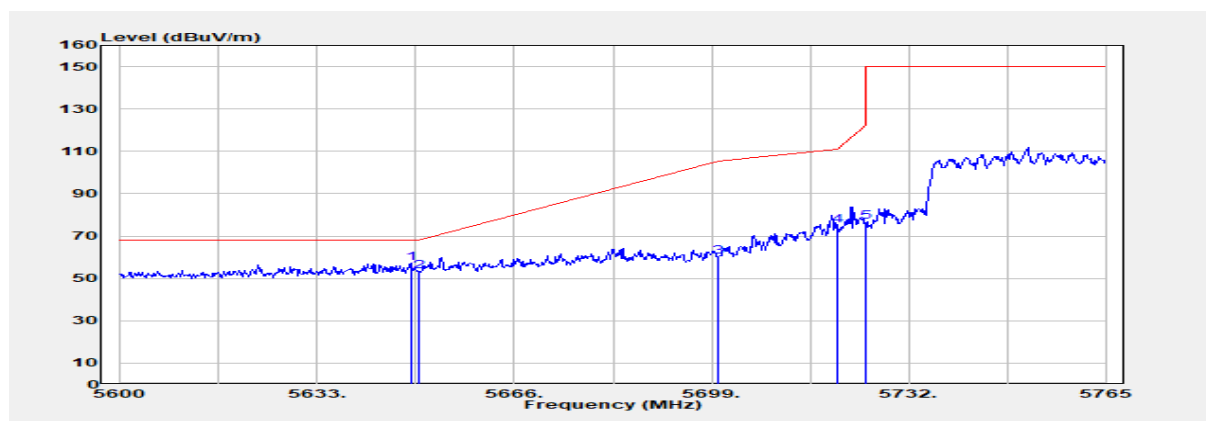
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Report Number :E2/2021/80020  
Operation Mode :802.11ax40 / Band 4  
Test Frequency :5755 MHz  
Test Mode :BE CH LOW  
EUT Pol :NB Plane  
Setting :19

Test Site :SAC G  
Test Date :2021-08-23  
Temp./Humi. :24.3/61  
Antenna Pol. :Vertical  
Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5648.675     | Peak                         | 53.58                             | 3.57         | 57.15                  | 68.20                  | -11.05       |
| 5650.000     | Peak                         | 49.60                             | 3.60         | 53.20                  | 68.20                  | -15.00       |
| 5700.000     | Peak                         | 56.82                             | 3.31         | 60.13                  | 105.20                 | -45.07       |
| 5720.000     | Peak                         | 71.01                             | 4.17         | 75.18                  | 110.80                 | -35.62       |
| 5725.000     | Peak                         | 72.56                             | 4.21         | 76.77                  | 122.20                 | -45.43       |

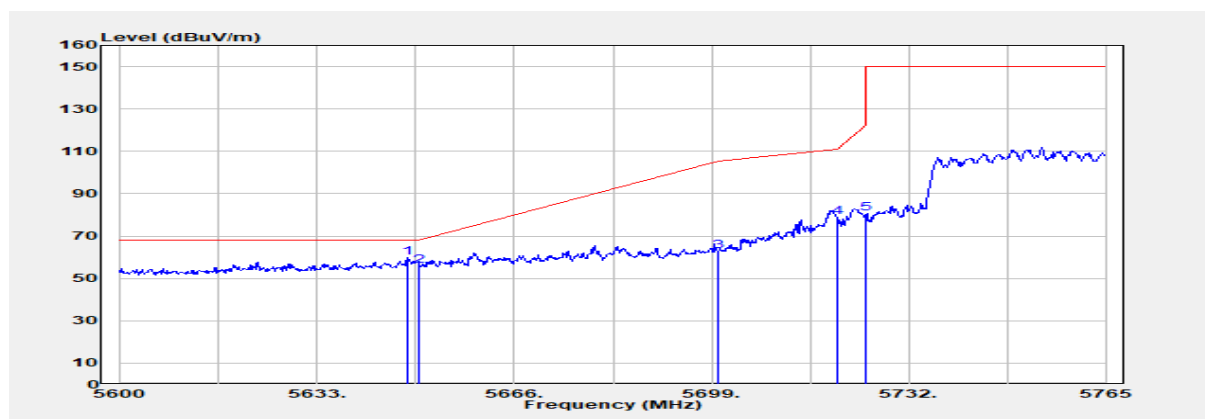
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Report Number :E2/2021/80020  
 Operation Mode :802.11ax40 / Band 4  
 Test Frequency :5755 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane  
 Setting :19

Test Site :SAC G  
 Test Date :2021-08-23  
 Temp./Humi. :24.3/61  
 Antenna Pol. :Horizontal  
 Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5648.015     | Peak                         | 56.22                             | 3.56         | 59.78                  | 68.20                  | -8.42        |
| 5650.000     | Peak                         | 52.26                             | 3.60         | 55.86                  | 68.20                  | -12.34       |
| 5700.000     | Peak                         | 59.36                             | 3.31         | 62.67                  | 105.20                 | -42.53       |
| 5720.000     | Peak                         | 74.68                             | 4.17         | 78.85                  | 110.80                 | -31.95       |
| 5725.000     | Peak                         | 76.35                             | 4.21         | 80.56                  | 122.20                 | -41.64       |

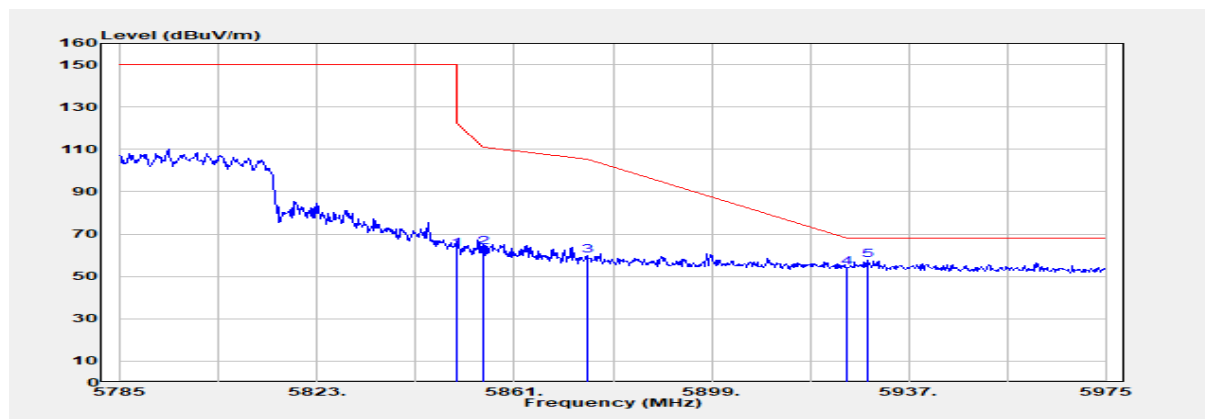
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Report Number :E2/2021/80020  
Operation Mode :802.11ax40 / Band 4  
Test Frequency :5795 MHz  
Test Mode :BE CH HIGH  
EUT Pol :NB Plane  
Setting :19

Test Site :SAC G  
Test Date :2021-08-23  
Temp./Humi. :24.3/61  
Antenna Pol. :Vertical  
Engineer :Ashton Chiu



| 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                         | 58.73                             | 4.31         | 63.04                  | 122.20                 | -59.16       |
| 5855.000     | Peak                         | 59.39                             | 4.21         | 63.60                  | 110.80                 | -47.20       |
| 5875.000     | Peak                         | 55.77                             | 3.90         | 59.67                  | 105.20                 | -45.53       |
| 5925.000     | Peak                         | 49.76                             | 4.36         | 54.12                  | 68.20                  | -14.08       |
| 5929.210     | Peak                         | 53.16                             | 4.34         | 57.50                  | 68.20                  | -10.70       |

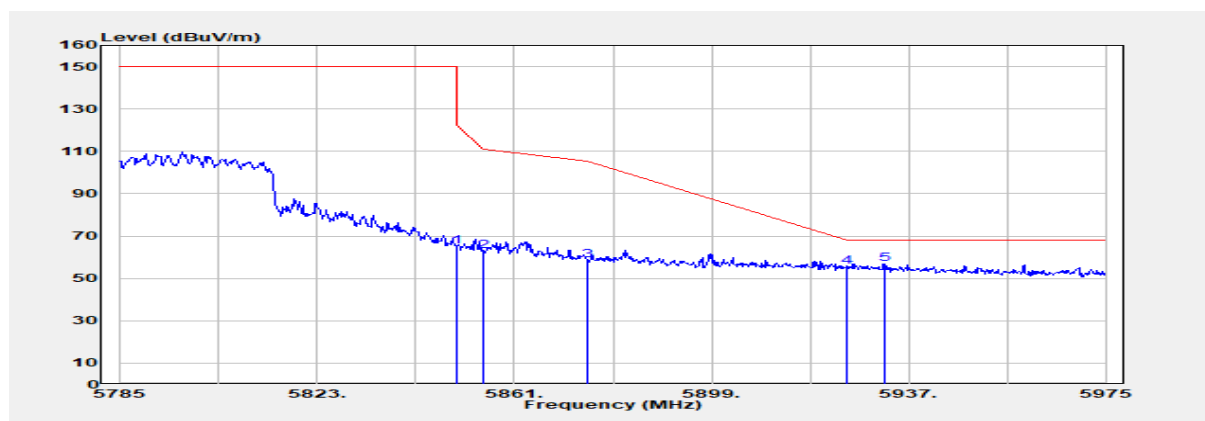
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Report Number :E2/2021/80020  
 Operation Mode :802.11ax40 / Band 4  
 Test Frequency :5795 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane  
 Setting :19

Test Site :SAC G  
 Test Date :2021-08-23  
 Temp./Humi. :24.3/61  
 Antenna Pol. :Horizontal  
 Engineer :Ashton Chiu



| 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                         | 60.86                             | 4.31         | 65.17                  | 122.20                 | -57.03       |
| 5855.000     | Peak                         | 58.47                             | 4.21         | 62.68                  | 110.80                 | -48.12       |
| 5875.000     | Peak                         | 54.61                             | 3.90         | 58.51                  | 105.20                 | -46.69       |
| 5925.000     | Peak                         | 51.18                             | 4.36         | 55.54                  | 68.20                  | -12.66       |
| 5932.250     | Peak                         | 52.60                             | 4.29         | 56.89                  | 68.20                  | -11.31       |

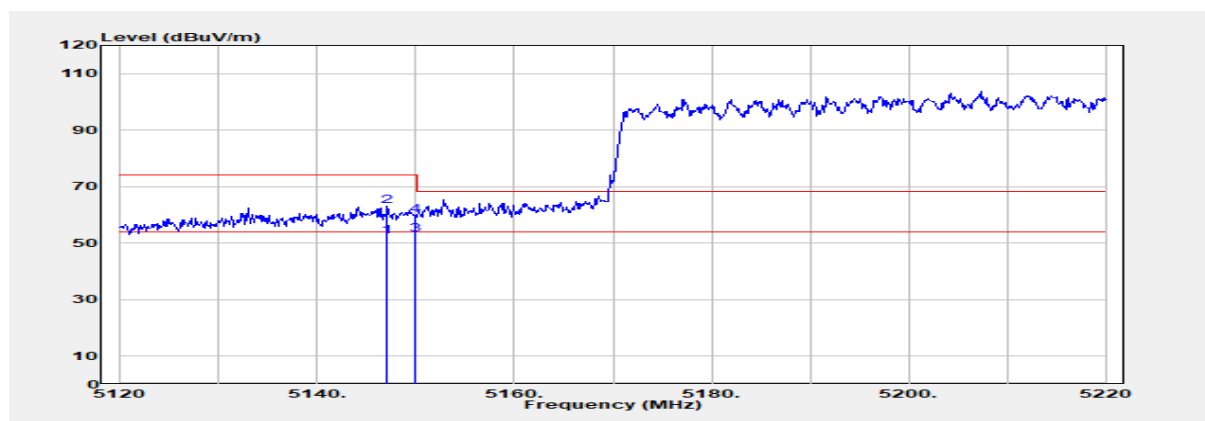
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Report Number :E2/2021/80020  
 Operation Mode :802.11ax80 / Band 1  
 Test Frequency :5210 MHz  
 Test Mode :BE CH LOW  
 EUT Pol :NB Plane  
 Setting :16

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Vertical  
 Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5147.100     | Average                      | 49.37                             | 2.96         | 52.33                  | 54.00                  | -1.67        |
| 5147.100     | Peak                         | 60.05                             | 2.96         | 63.01                  | 74.00                  | -10.99       |
| 5150.000     | Average                      | 49.94                             | 3.03         | 52.97                  | 54.00                  | -1.03        |
| 5150.000     | Peak                         | 56.85                             | 3.03         | 59.88                  | 74.00                  | -14.12       |

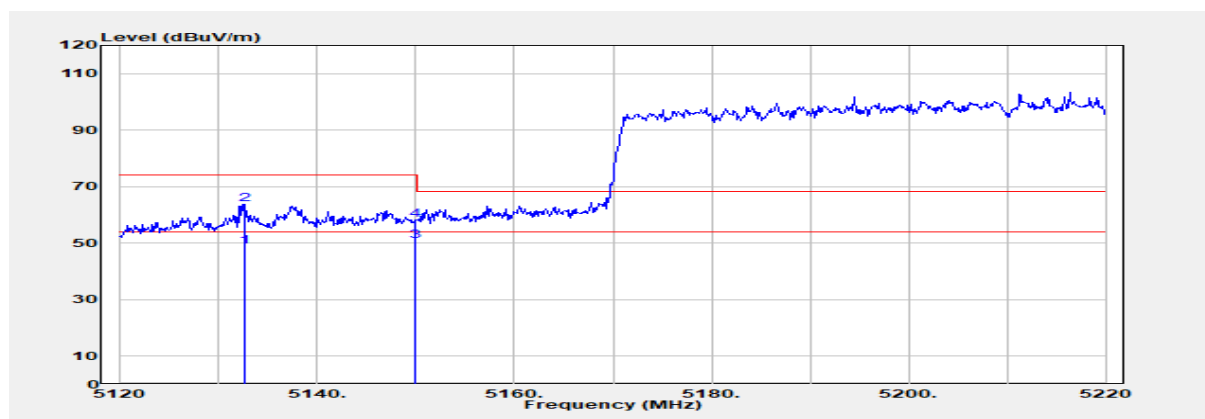
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Report Number :E2/2021/80020  
Operation Mode :802.11ax80 / Band 1  
Test Frequency :5210 MHz  
Test Mode :BE CH LOW  
EUT Pol :NB Plane  
Setting :16

Test Site :SAC G  
Test Date :2021-08-20  
Temp./Humi. :24.5/60  
Antenna Pol. :Horizontal  
Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------------|--------------|------------------------------|------------------------------|--------------|
| 5132.600     | Average                      | 45.99                                   | 2.72         | 48.70                        | 54.00                        | -5.30        |
| 5132.600     | Peak                         | 60.92                                   | 2.72         | 63.64                        | 74.00                        | -10.36       |
| 5150.000     | Average                      | 47.59                                   | 3.03         | 50.62                        | 54.00                        | -3.38        |
| 5150.000     | Peak                         | 55.19                                   | 3.03         | 58.22                        | 74.00                        | -15.78       |

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Report Number :E2/2021/80020

Test Site :SAC G

Operation Mode :802.11ax40 / Band 2

Test Date :2021-08-20

Test Frequency :5290 MHz

Temp./Humi. :24.8/61

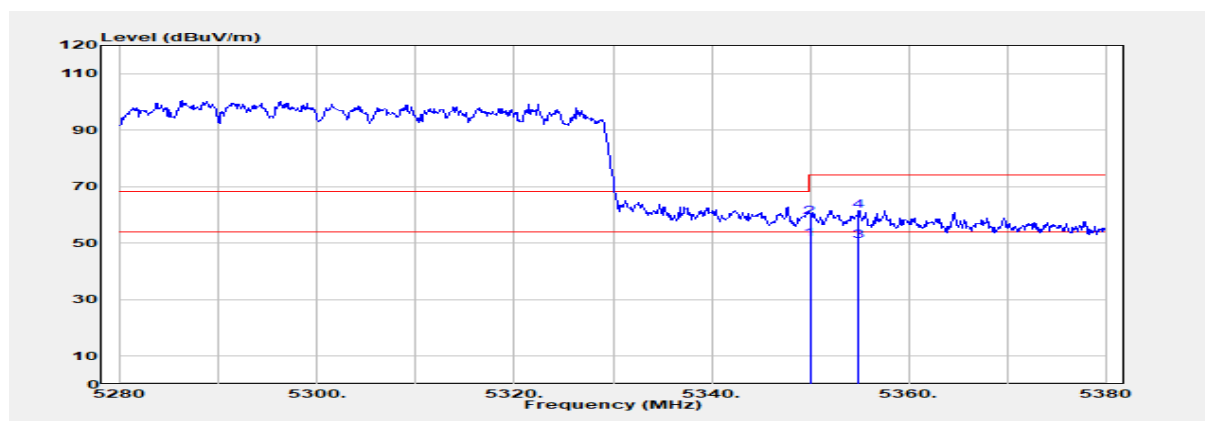
Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :13.5



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.000     | Average                      | 49.11                             | 2.21         | 51.32                  | 54.00                  | -2.68        |
| 5350.000     | Peak                         | 56.94                             | 2.21         | 59.15                  | 74.00                  | -14.85       |
| 5354.900     | Average                      | 48.55                             | 2.21         | 50.77                  | 54.00                  | -3.23        |
| 5354.900     | Peak                         | 59.38                             | 2.21         | 61.59                  | 74.00                  | -12.41       |

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Report Number :E2/2021/80020

Test Site :SAC G

Operation Mode :802.11ax40 / Band 2

Test Date :2021-08-20

Test Frequency :5290 MHz

Temp./Humi. :24.8/61

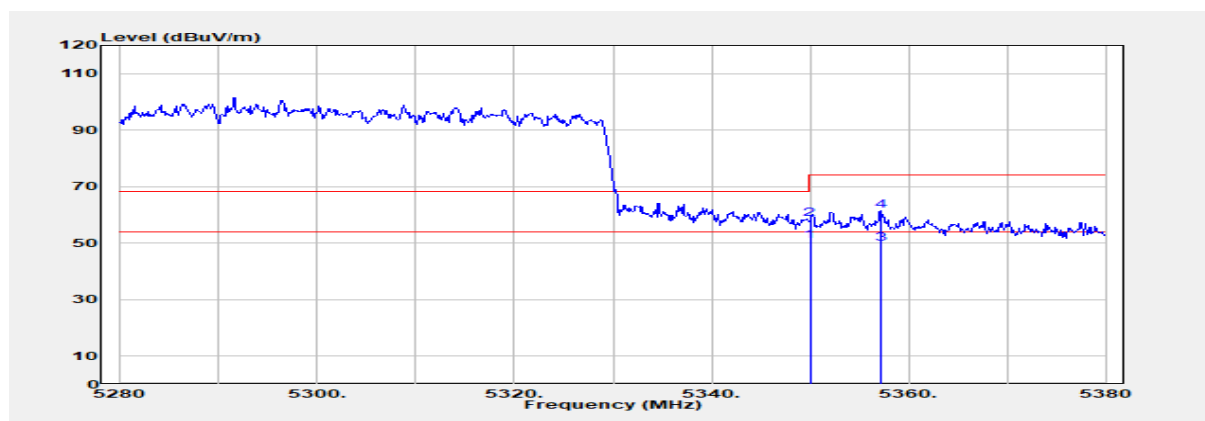
Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :13.5



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5350.000     | Average                      | 48.48                             | 2.21         | 50.69                  | 54.00                  | -3.31        |
| 5350.000     | Peak                         | 56.45                             | 2.21         | 58.66                  | 74.00                  | -15.34       |
| 5357.200     | Average                      | 47.50                             | 2.22         | 49.71                  | 54.00                  | -4.29        |
| 5357.200     | Peak                         | 59.12                             | 2.22         | 61.33                  | 74.00                  | -12.67       |

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Report Number :E2/2021/80020

Test Site :SAC G

Operation Mode :802.11ax80 / Band 3

Test Date :2021-08-20

Test Frequency :5530 MHz

Temp./Humi. :24.5/60

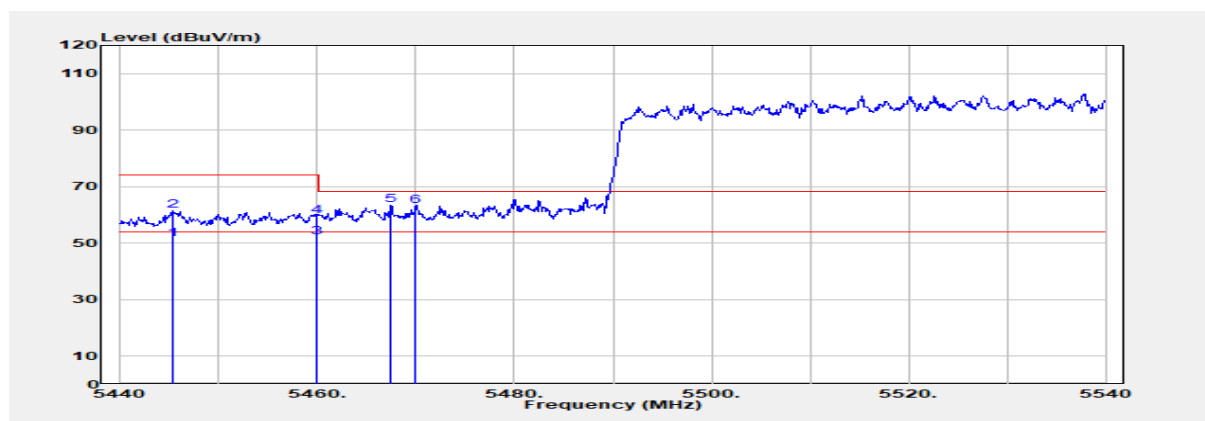
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :13.5



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5445.400     | Average                      | 48.82                             | 2.47         | 51.28                  | 54.00                  | -2.72        |
| 5445.400     | Peak                         | 59.09                             | 2.47         | 61.56                  | 74.00                  | -12.44       |
| 5460.000     | Average                      | 49.25                             | 2.64         | 51.89                  | 54.00                  | -2.11        |
| 5460.000     | Peak                         | 56.90                             | 2.64         | 59.54                  | 74.00                  | -14.46       |
| 5467.500     | Peak                         | 60.54                             | 2.74         | 63.28                  | 68.20                  | -4.92        |
| 5470.000     | Peak                         | 60.18                             | 2.77         | 62.95                  | 68.20                  | -5.25        |

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Report Number :E2/2021/80020

Test Site :SAC G

Operation Mode :802.11ax80 / Band 3

Test Date :2021-08-20

Test Frequency :5530 MHz

Temp./Humi. :24.5/60

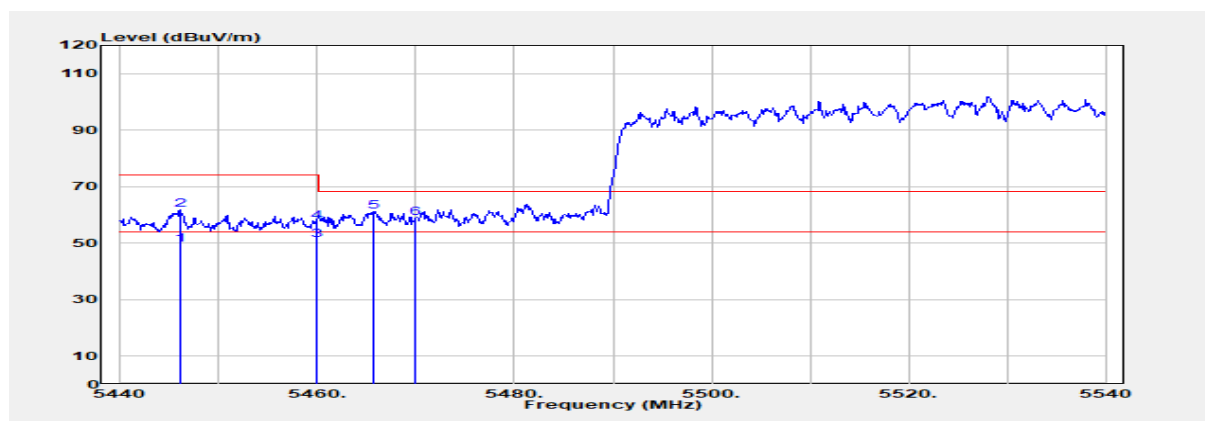
Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Ashton Chiu

Setting :13.5



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5446.000     | Average                      | 47.00                             | 2.48         | 49.48                  | 54.00                  | -4.52        |
| 5446.000     | Peak                         | 59.24                             | 2.48         | 61.72                  | 74.00                  | -12.28       |
| 5460.000     | Average                      | 48.31                             | 2.64         | 50.95                  | 54.00                  | -3.05        |
| 5460.000     | Peak                         | 54.90                             | 2.64         | 57.54                  | 74.00                  | -16.46       |
| 5465.600     | Peak                         | 58.32                             | 2.71         | 61.04                  | 68.20                  | -7.16        |
| 5470.000     | Peak                         | 56.11                             | 2.77         | 58.88                  | 68.20                  | -9.32        |

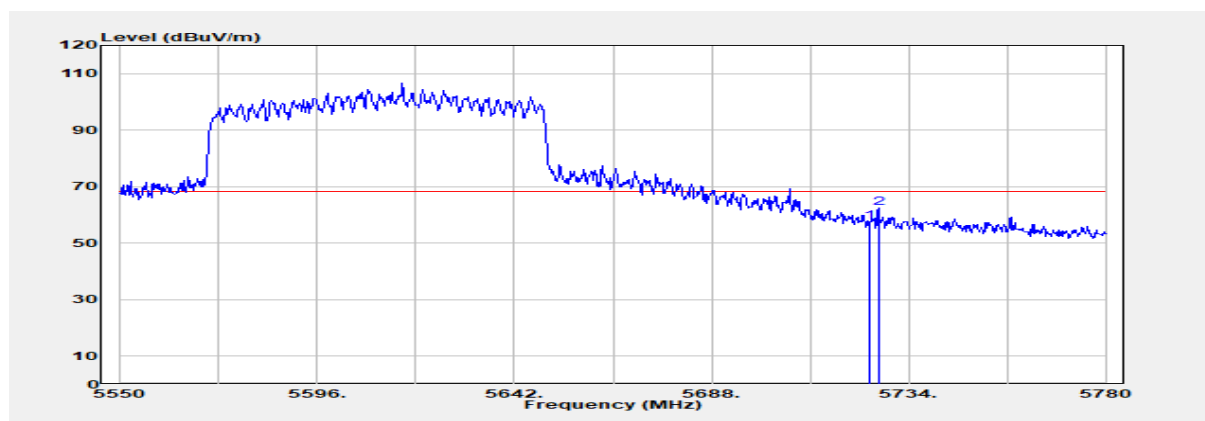
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Report Number :E2/2021/80020  
 Operation Mode :802.11ax80 / Band 3  
 Test Frequency :5610 MHz  
 Test Mode :BE CH MID  
 EUT Pol :NB Plane  
 Setting :18

Test Site :SAC G  
 Test Date :2021-08-23  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Vertical  
 Engineer :Ashton Chiu



| 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                         | 53.41                             | 4.21         | 57.62                  | 68.20                  | -10.58       |
| 5727.100     | Peak                         | 58.07                             | 4.23         | 62.30                  | 68.20                  | -5.90        |

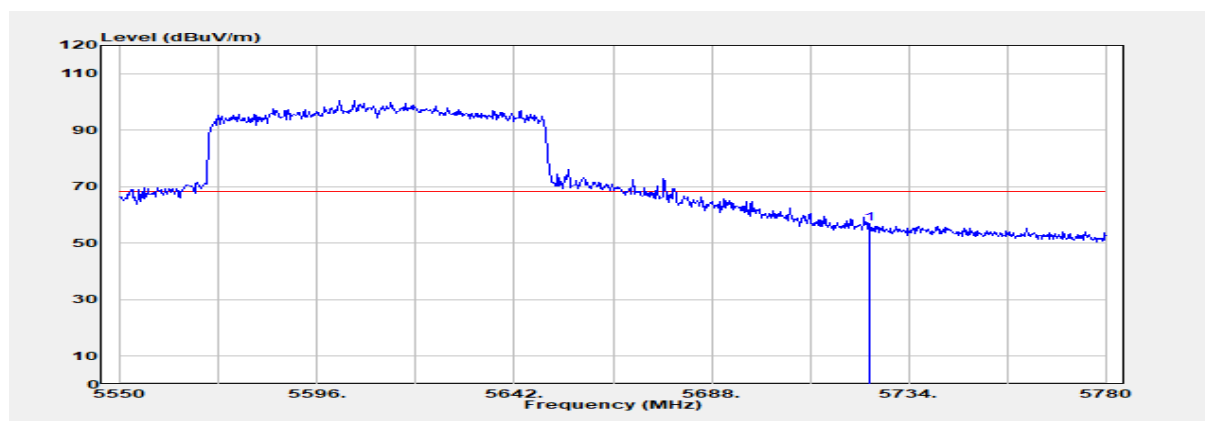
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Report Number :E2/2021/80020  
 Operation Mode :802.11ax80 / Band 3  
 Test Frequency :5610 MHz  
 Test Mode :BE CH MID  
 EUT Pol :NB Plane  
 Setting :18

Test Site :SAC G  
 Test Date :2021-08-20  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Ashton Chiu



| 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                         | 52.56                             | 4.21         | 56.77                  | 68.20                  | -11.43       |

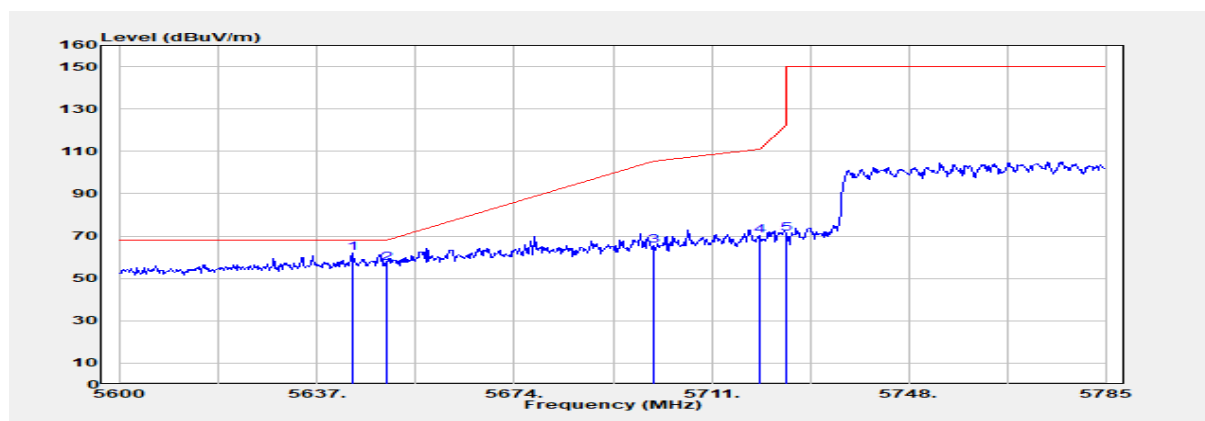
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Report Number :E2/2021/80020  
Operation Mode :802.11ax80 / Band 4  
Test Frequency :5775 MHz  
Test Mode :BE CH LOW  
EUT Pol :NB Plane  
Setting :18.5

Test Site :SAC G  
Test Date :2021-08-23  
Temp./Humi. :24.5/60  
Antenna Pol. :Vertical  
Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5643.475     | Peak                         | 58.32                             | 3.48         | 61.79                  | 68.20                  | -6.41        |
| 5650.000     | Peak                         | 53.72                             | 3.60         | 57.32                  | 68.20                  | -10.88       |
| 5700.000     | Peak                         | 62.25                             | 3.31         | 65.56                  | 105.20                 | -39.64       |
| 5720.000     | Peak                         | 66.18                             | 4.17         | 70.35                  | 110.80                 | -40.45       |
| 5725.000     | Peak                         | 66.94                             | 4.21         | 71.15                  | 122.20                 | -51.05       |

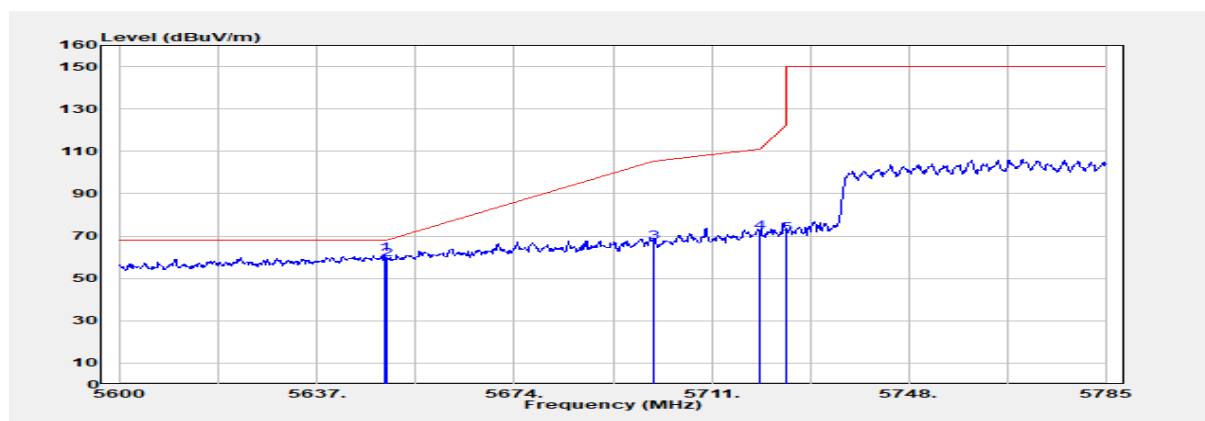
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Report Number :E2/2021/80020  
Operation Mode :802.11ax80 / Band 4  
Test Frequency :5775 MHz  
Test Mode :BE CH LOW  
EUT Pol :NB Plane  
Setting :18.5

Test Site :SAC G  
Test Date :2021-08-23  
Temp./Humi. :24.5/60  
Antenna Pol. :Horizontal  
Engineer :Ashton Chiu



| 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 |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 5649.580     | Peak                         | 58.07                             | 3.59         | 61.66                  | 68.20                  | -6.54        |
| 5650.000     | Peak                         | 55.17                             | 3.60         | 58.77                  | 68.20                  | -9.43        |
| 5700.000     | Peak                         | 63.93                             | 3.31         | 67.24                  | 105.20                 | -37.96       |
| 5720.000     | Peak                         | 67.98                             | 4.17         | 72.15                  | 110.80                 | -38.65       |
| 5725.000     | Peak                         | 66.75                             | 4.21         | 70.96                  | 122.20                 | -51.24       |

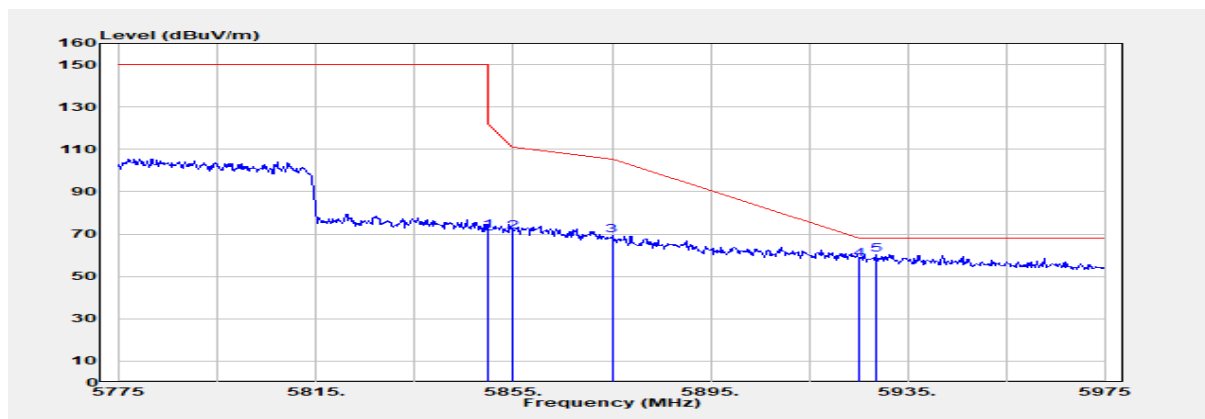
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Report Number :E2/2021/80020  
Operation Mode :802.11ax80 / Band 4  
Test Frequency :5775 MHz  
Test Mode :BE CH HIGH  
EUT Pol :NB Plane  
Setting :18.5

Test Site :SAC G  
Test Date :2021-08-23  
Temp./Humi. :24.5/60  
Antenna Pol. :Vertical  
Engineer :Ashton Chiu



| 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                         | 67.22                             | 4.31         | 71.53                  | 122.20                 | -50.67       |
| 5855.000     | Peak                         | 67.06                             | 4.21         | 71.27                  | 110.80                 | -39.53       |
| 5875.000     | Peak                         | 65.41                             | 3.90         | 69.31                  | 105.20                 | -35.89       |
| 5925.000     | Peak                         | 53.96                             | 4.36         | 58.31                  | 68.20                  | -9.89        |
| 5928.600     | Peak                         | 55.91                             | 4.34         | 60.25                  | 68.20                  | -7.95        |

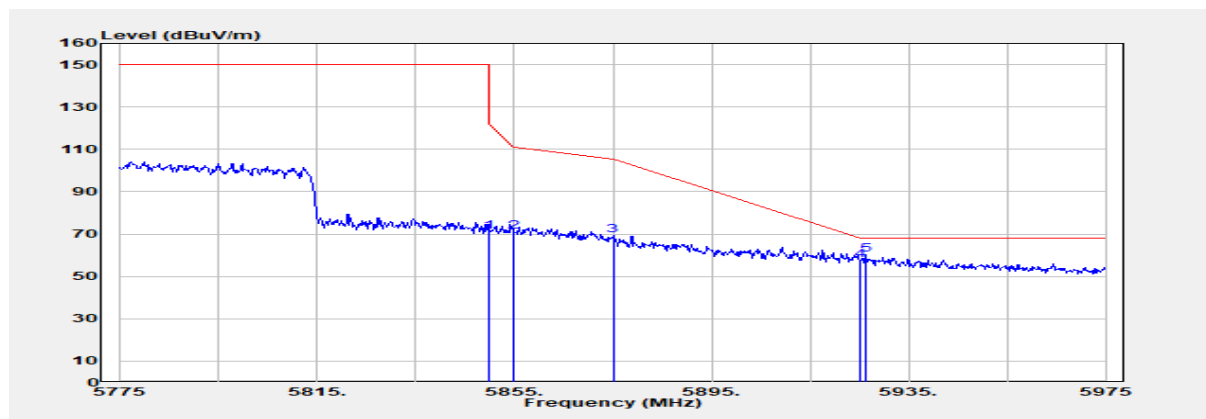
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Report Number :E2/2021/80020  
 Operation Mode :802.11ax80 / Band 4  
 Test Frequency :5775 MHz  
 Test Mode :BE CH HIGH  
 EUT Pol :NB Plane  
 Setting :18.5

Test Site :SAC G  
 Test Date :2021-08-23  
 Temp./Humi. :24.5/60  
 Antenna Pol. :Horizontal  
 Engineer :Ashton Chiu



| 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                         | 66.95                             | 4.31         | 71.26                  | 122.20                 | -50.94       |
| 5855.000     | Peak                         | 66.73                             | 4.21         | 70.94                  | 110.80                 | -39.86       |
| 5875.000     | Peak                         | 65.41                             | 3.90         | 69.31                  | 105.20                 | -35.89       |
| 5925.000     | Peak                         | 53.45                             | 4.36         | 57.80                  | 68.20                  | -10.40       |
| 5926.200     | Peak                         | 55.77                             | 4.35         | 60.13                  | 68.20                  | -8.07        |

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## 8 TRANSMISSION IN THE ABSENCE OF DATA

### 8.1 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.

### 8.2 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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## 9 ANTENNA REQUIREMENT

### 9.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 9.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

*~ End of Report ~*

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