



# FCC TEST REPORT

Test report  
On Behalf of  
Bowe Technology Co., Ltd  
For  
Wi-Fi 6 MESH AP  
Model No.: AX1800 PRO  
FCC ID: 2AVWB-AX1800PRO

Prepared for :     Bowe Technology Co., Ltd  
2F, Building No. 6C, 1658, Gumei Rd., Xuhui District, Shanghai, China

Prepared By :     Shenzhen HUAKE Testing Technology Co., Ltd.  
1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,  
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Date of Test:       May. 13, 2020 ~ Jun. 01, 2021

Date of Report:     Jun. 01, 2021

Report Number:    HK2105101409-3E



## TEST RESULT CERTIFICATION

**Applicant's name** .....: Bowei Technology Co., Ltd  
**Address** .....: 2F, Building No. 6C, 1658, Gumei Rd., Xuhui District,  
Shanghai, China

**Manufacture's Name**.....: Bowei Technology Co., Ltd  
**Address** .....: 2F, Building No. 6C, 1658, Gumei Rd., Xuhui District,  
Shanghai, China

**Product description**

Trade Mark:

**AZORES**

Product name .....: Wi-Fi 6 MESH AP

Model and/or type reference ..: AX1800 PRO

**Standards** .....: FCC Rules and Regulations Part 15 Subpart E Section  
15.407  
ANSI C63.10: 2013

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen HUAKE Testing Technology Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen HUAKE Testing Technology Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

**Date of Test**.....:

Date (s) of performance of tests .....: May. 13, 2020 ~ Jun. 01, 2021

Date of Issue.....: Jun. 01, 2021

Test Result .....: Pass

Testing Engineer :

(Gary Qian)

Technical Manager :

(Eden Hu)

Authorized Signatory :

(Jason Zhou)





## TABLE OF CONTENTS

|                                                     |           |
|-----------------------------------------------------|-----------|
| <b>1. Test Result Summary .....</b>                 | <b>5</b>  |
| 1.1. TEST PROCEDURES AND RESULTS.....               | 5         |
| 1.2. TEST FACILITY .....                            | 5         |
| 1.3. MEASUREMENT UNCERTAINTY .....                  | 6         |
| <b>2. EUT Description .....</b>                     | <b>7</b>  |
| 2.1. GENERAL DESCRIPTION OF EUT .....               | 7         |
| 2.2. OPERATION FREQUENCY EACH OF CHANNEL.....       | 8         |
| 2.3. OPERATION OF EUT DURING TESTING .....          | 8         |
| 2.4. DESCRIPTION OF TEST SETUP .....                | 9         |
| <b>3. General Information .....</b>                 | <b>10</b> |
| 3.1. TEST ENVIRONMENT AND MODE .....                | 10        |
| 3.2. DESCRIPTION OF SUPPORT UNITS .....             | 11        |
| <b>4. Test Results and Measurement Data .....</b>   | <b>12</b> |
| 4.1. CONDUCTED EMISSION .....                       | 12        |
| 4.2. MAXIMUM CONDUCTED OUTPUT POWER .....           | 18        |
| 4.3. 6dB EMISSION BANDWIDTH .....                   | 22        |
| 4.4. 26dB BANDWIDTH AND 99% OCCUPIED BANDWIDTH..... | 43        |
| 4.5. POWER SPECTRAL DENSITY .....                   | 45        |
| 4.6. BAND EDGE.....                                 | 63        |
| 4.7. SPURIOUS EMISSION .....                        | 118       |
| 4.8. FREQUENCY STABILITY MEASUREMENT.....           | 149       |
| 4.9. ANTENNA REQUIREMENT .....                      | 151       |
| 4.10. PHOTOGRAPHS OF TEST SETUP .....               | 152       |
| 4.11. PHOTOS OF THE EUT .....                       | 155       |

**\*\* Modified History \*\***

| Revision     | Description                 | Issued Data   | Remark     |
|--------------|-----------------------------|---------------|------------|
| Revision 1.0 | Initial Test Report Release | Jun. 01, 2020 | Jason Zhou |
|              |                             |               |            |
|              |                             |               |            |



## 1. Test Result Summary

### 1.1. TEST PROCEDURES AND RESULTS

| Requirement                                      | CFR 47 Section           | Result |
|--------------------------------------------------|--------------------------|--------|
| Antenna requirement                              | §15.203                  | PASS   |
| AC Power Line Conducted Emission                 | §15.207                  | PASS   |
| Maximum Conducted Output Power                   | §15.407(a)               | PASS   |
| 6dB Emission Bandwidth                           | §15.407(e)               | PASS   |
| 26dB Emission Bandwidth & 99% Occupied Bandwidth | §15.407(a)               | N/A    |
| Power Spectral Density                           | §15.407(a)               | PASS   |
| Band edge                                        | §15.407(b)/15.209/15.205 | PASS   |
| Radiated Emission                                | §15.407(b)/15.209/15.205 | PASS   |
| Frequency Stability                              | §15.407(g)               | PASS   |

**Note:**

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

### 1.2. TEST FACILITY

Test Firm : Shenzhen HUAKE Testing Technology Co., Ltd.

Address 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park,  
Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



### 1.3. Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

| No. | Item                          | MU                        |
|-----|-------------------------------|---------------------------|
| 1   | Conducted Emission            | $\pm 2.56\text{dB}$       |
| 2   | RF power, conducted           | $\pm 0.12\text{dB}$       |
| 3   | Spurious emissions, conducted | $\pm 0.11\text{dB}$       |
| 4   | All emissions, radiated(<1G)  | $\pm 3.92\text{dB}$       |
| 5   | All emissions, radiated(>1G)  | $\pm 4.28\text{dB}$       |
| 6   | Temperature                   | $\pm 0.1^{\circ}\text{C}$ |
| 7   | Humidity                      | $\pm 1.0\%$               |



## 2. EUT Description

### 2.1. GENERAL DESCRIPTION OF EUT

|                                                                                                                                                                                                                                                                                                    |                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Equipment                                                                                                                                                                                                                                                                                          | Wi-Fi 6 MESH AP                                                                                                             |
| Model Name                                                                                                                                                                                                                                                                                         | AX1800 PRO                                                                                                                  |
| Serial No.                                                                                                                                                                                                                                                                                         | N/A                                                                                                                         |
| Trade Mark                                                                                                                                                                                                                                                                                         | <b>AZORES</b>                                                                                                               |
| Model Difference                                                                                                                                                                                                                                                                                   | N/A                                                                                                                         |
| FCC ID                                                                                                                                                                                                                                                                                             | 2AVWB-AX1800PRO                                                                                                             |
| Operation Frequency:                                                                                                                                                                                                                                                                               | IEEE 802.11a/n/ac/ax(HT20)5.745GHz-5.825GHz<br>IEEE 802.11n/ac/ax(HT40)5.755GHz-5.795GHz<br>IEEE 802.11ac/ax(HT80) 5.775GHz |
| Modulation Technology:                                                                                                                                                                                                                                                                             | IEEE 802.11a/n/ac/ax                                                                                                        |
| Modulation Type                                                                                                                                                                                                                                                                                    | OFDM, OFDMA                                                                                                                 |
| Antenna Type                                                                                                                                                                                                                                                                                       | Internal Antenna                                                                                                            |
| Antenna Gain                                                                                                                                                                                                                                                                                       | Antenna 1:4.5dBi<br>Antenna 2:4.5dBi<br>MIMO: 7.510dBi                                                                      |
| Power Source                                                                                                                                                                                                                                                                                       | DC 12V from Adapter                                                                                                         |
| Power Supply:                                                                                                                                                                                                                                                                                      | DC 12V from Adapter                                                                                                         |
| Hardware Version                                                                                                                                                                                                                                                                                   | V1.0.0                                                                                                                      |
| Software Version                                                                                                                                                                                                                                                                                   | LAZV1.0.0R00                                                                                                                |
| Note: The EUT incorporates a MIMO function. Physically, it provides two completed transmitters and receivers(2T2R), two transmit signals are completely correlated, then, Direction gain=GANT + Array Gain(Array Gain=10 log(2) dB for power spectral density; Array Gain=0 for power measurement) |                                                                                                                             |



## 2.2. Operation Frequency each of channel

| 802.11a/802.11n(HT20)<br>802.11ac(HT20)<br>802.11ax(HT20) |           | 802.11n(HT40)/<br>802.11ac(HT40)<br>802.11ax(HT40) |           | 802.11ac(HT80)<br>802.11ax(HT80) |           |
|-----------------------------------------------------------|-----------|----------------------------------------------------|-----------|----------------------------------|-----------|
| Channel                                                   | Frequency | Channel                                            | Frequency | Channel                          | Frequency |
| 149                                                       | 5745      | 151                                                | 5755      | 155                              | 5775      |
| 153                                                       | 5765      | 159                                                | 5790      |                                  |           |
| 157                                                       | 5785      |                                                    |           |                                  |           |
| 161                                                       | 5805      |                                                    |           |                                  |           |
| 165                                                       | 5825      |                                                    |           |                                  |           |

### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

## 2.3. Operation of EUT during testing

| Band IV (5725 - 5850 MHz)             |         |                 |
|---------------------------------------|---------|-----------------|
| For 802.11a/n (HT20)/ac(HT20)/axHT20) |         |                 |
| Channel Number                        | Channel | Frequency (MHz) |
| 149                                   | Low     | 5745            |
| 157                                   | Mid     | 5785            |
| 165                                   | High    | 5825            |

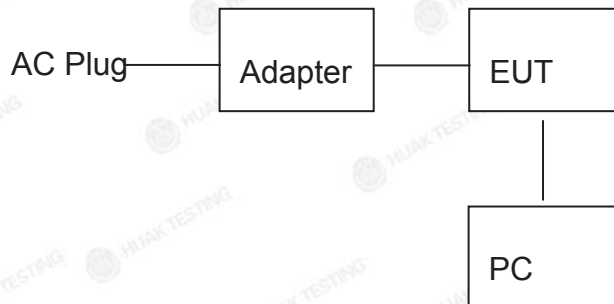
| For 802.11n (HT40)/ ac(HT40)/axHT40) |         |                 |
|--------------------------------------|---------|-----------------|
| Channel Number                       | Channel | Frequency (MHz) |
| 151                                  | Low     | 5755            |
| 159                                  | High    | 5795            |

| For 802.11ac(HT80)/ax(HT80) |         |                 |
|-----------------------------|---------|-----------------|
| Channel Number              | Channel | Frequency (MHz) |
| 155                         | /       | 5775            |

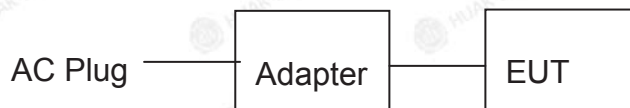


## 2.4. DESCRIPTION OF TEST SETUP

Operation of EUT during conducted testing and below 1GHz Radiation testing:



Operation of EUT during Above1GHz Radiation testing:



- PC information  
Model: TP00067A  
Input: DC 20V, 2.25~3.25A  
Output: 5VDC, 0.5A

Adapter information

Adapter 1:  
Model: MS-V1500R120-018H0-US  
Input: 100-240V~50-60Hz 0.6A max  
Output: DC12V 1.5A

Adapter 2:  
Model: RD1201500-C55-153MG  
Input: 100-240V~50-60Hz 0.6A  
Output: DC12V 1.5A

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position



### 3. General Information

#### 3.1. Test environment and mode

| Operating Environment:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Temperature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 25.0 °C                                                                                                    |
| Humidity:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 56 % RH                                                                                                    |
| Atmospheric Pressure:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1010 mbar                                                                                                  |
| Test Mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                            |
| Engineering mode:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 100%) |
| <p>The sample was placed 0.8m/1.5m for blow/above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y &amp; Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.</p> |                                                                                                            |

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

**Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.**

| Mode                             | Data rate                                               |
|----------------------------------|---------------------------------------------------------|
| 802.11a                          | 6 Mbps                                                  |
| 802.11n(HT20)                    | MCS0                                                    |
| 802.11n(HT40)                    | MCS0                                                    |
| 802.11ac(HT20)/ac(HT40)/ac(HT80) | MCS0                                                    |
| 802.11ax(HT20)/ax(HT40)/ax(HT80) | MCS0                                                    |
| Final Test Mode:                 |                                                         |
| Operation mode:                  | Keep the EUT in continuous transmitting with modulation |



### 3.2. Description of Support Units

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

| Equipment | Model No. | Serial No. | FCC ID | Trade Name |
|-----------|-----------|------------|--------|------------|
| /         | /         | /          | /      | /          |

**Note:**

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.



## 4. Test Results and Measurement Data

### 4.1. Conducted Emission

#### 4.1.1. Test Specification

| Test Requirement:        | FCC Part15 C Section 15.207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |              |  |            |         |          |           |           |       |    |    |      |    |    |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------|--|------------|---------|----------|-----------|-----------|-------|----|----|------|----|----|
| Test Method:             | ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Frequency Range:         | 150 kHz to 30 MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Receiver setup:          | RBW=9 kHz, VBW=30 kHz, Sweep time=auto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Limits:                  | <table><tr><th rowspan="2">Frequency range<br/>(MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                            | Frequency range<br>(MHz) | Limit (dBuV) |  | Quasi-peak | Average | 0.15-0.5 | 66 to 56* | 56 to 46* | 0.5-5 | 56 | 46 | 5-30 | 60 | 50 |
| Frequency range<br>(MHz) | Limit (dBuV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |              |  |            |         |          |           |           |       |    |    |      |    |    |
|                          | Quasi-peak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Average                  |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 0.15-0.5                 | 66 to 56*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 56 to 46*                |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 0.5-5                    | 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 46                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| 5-30                     | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 50                       |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test Setup:              | <div><p>Reference Plane</p><p>40cm 80cm</p><p>E.U.T AC power LISN Filter AC power EMI Receiver</p><p>Test table/Insulation plane</p><p>Remark<br/>E.U.T: Equipment Under Test<br/>LISN: Line Impedance Stabilization Network<br/>Test table height=0.8m</p></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test Mode:               | Tx Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test Procedure:          | <div><div>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</div><div>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</div><div>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</div></div> |                          |              |  |            |         |          |           |           |       |    |    |      |    |    |
| Test Result:             | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                          |              |  |            |         |          |           |           |       |    |    |      |    |    |



#### 4.1.2. Test Instruments

| Conducted Emission Shielding Room Test Site (843) |              |                    |               |                  |                 |
|---------------------------------------------------|--------------|--------------------|---------------|------------------|-----------------|
| Equipment                                         | Manufacturer | Model              | Serial Number | Calibration Date | Calibration Due |
| Receiver                                          | R&S          | ESR-7              | HKE-010       | Jun. 18, 2020    | Jun. 17, 2021   |
| LISN                                              | R&S          | ENV216             | HKE-002       | Jun. 18, 2020    | Jun. 17, 2021   |
| Coax cable<br>(9KHz-30MHz)                        | Times        | 381806-00<br>2     | N/A           | Jun. 18, 2020    | Jun. 17, 2021   |
| Conducted test<br>software                        | Tonscend     | TS+ Rev<br>2.5.0.0 | HKE-081       | N/A              | N/A             |

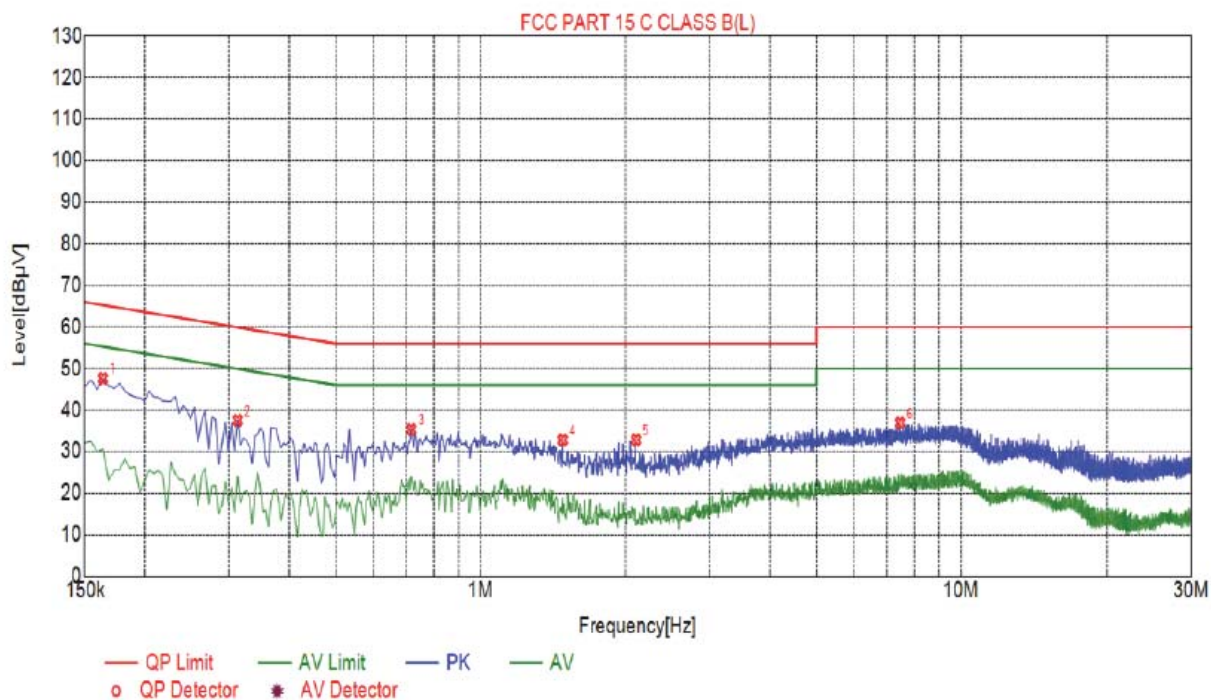
**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



## 4.1.3. Test data

### Adapter 1:

Test Specification: Line



## Suspected List

| NO. | Freq. [MHz] | Level [dBμV] | Factor [dB] | Limit [dBμV] | Margin [dB] | Reading [dBμV] | Detector | Type |
|-----|-------------|--------------|-------------|--------------|-------------|----------------|----------|------|
| 1   | 0.1635      | 47.59        | 19.98       | 65.28        | 17.69       | 27.61          | PK       | L    |
| 2   | 0.3120      | 37.52        | 20.05       | 59.92        | 22.40       | 17.47          | PK       | L    |
| 3   | 0.7170      | 35.32        | 20.05       | 56.00        | 20.68       | 15.27          | PK       | L    |
| 4   | 1.4820      | 32.76        | 20.10       | 56.00        | 23.24       | 12.66          | PK       | L    |
| 5   | 2.1075      | 32.83        | 20.15       | 56.00        | 23.17       | 12.68          | PK       | L    |
| 6   | 7.4715      | 36.92        | 20.18       | 60.00        | 23.08       | 16.74          | PK       | L    |

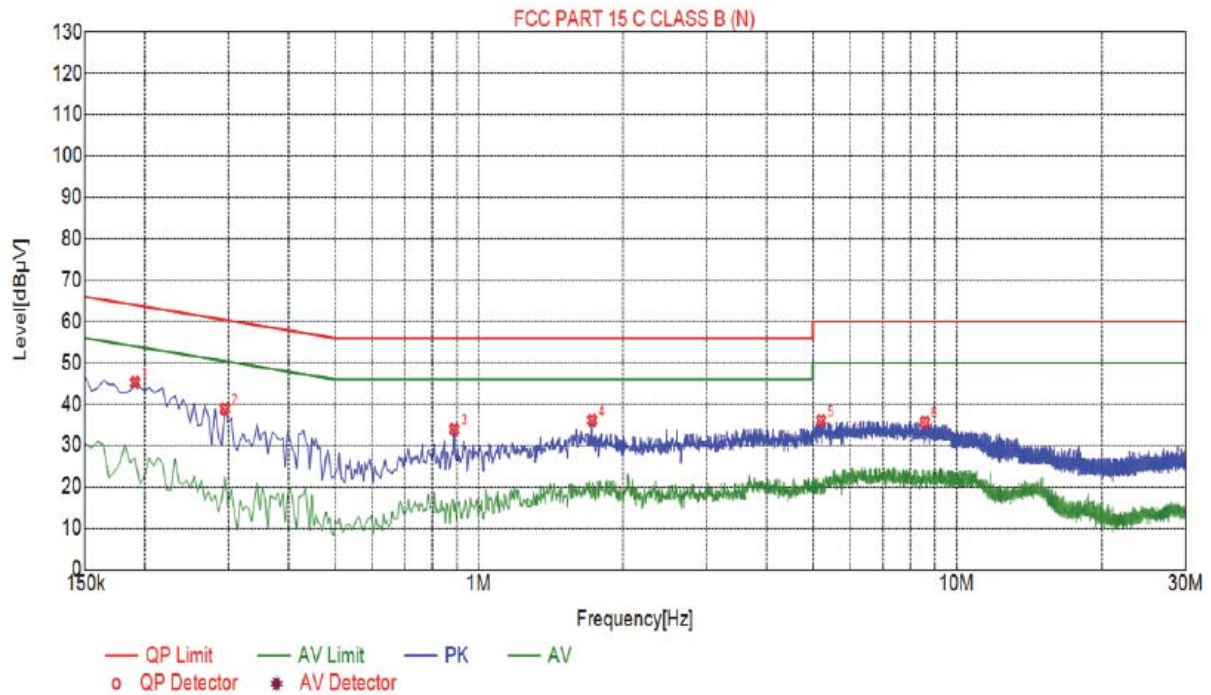
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Test Specification: Neutral



## Suspected List

| NO. | Freq. [MHz] | Level [dBμV] | Factor [dB] | Limit [dBμV] | Margin [dB] | Reading [dBμV] | Detector | Type |
|-----|-------------|--------------|-------------|--------------|-------------|----------------|----------|------|
| 1   | 0.1905      | 45.24        | 20.04       | 64.01        | 18.77       | 25.20          | PK       | N    |
| 2   | 0.2940      | 38.87        | 20.03       | 60.41        | 21.54       | 18.84          | PK       | N    |
| 3   | 0.8880      | 33.90        | 20.06       | 56.00        | 22.10       | 13.84          | PK       | N    |
| 4   | 1.7250      | 36.11        | 20.13       | 56.00        | 19.89       | 15.98          | PK       | N    |
| 5   | 5.2080      | 36.02        | 20.26       | 60.00        | 23.98       | 15.76          | PK       | N    |
| 6   | 8.5785      | 35.61        | 20.13       | 60.00        | 24.39       | 15.48          | PK       | N    |

Remark: Margin = Limit – Level

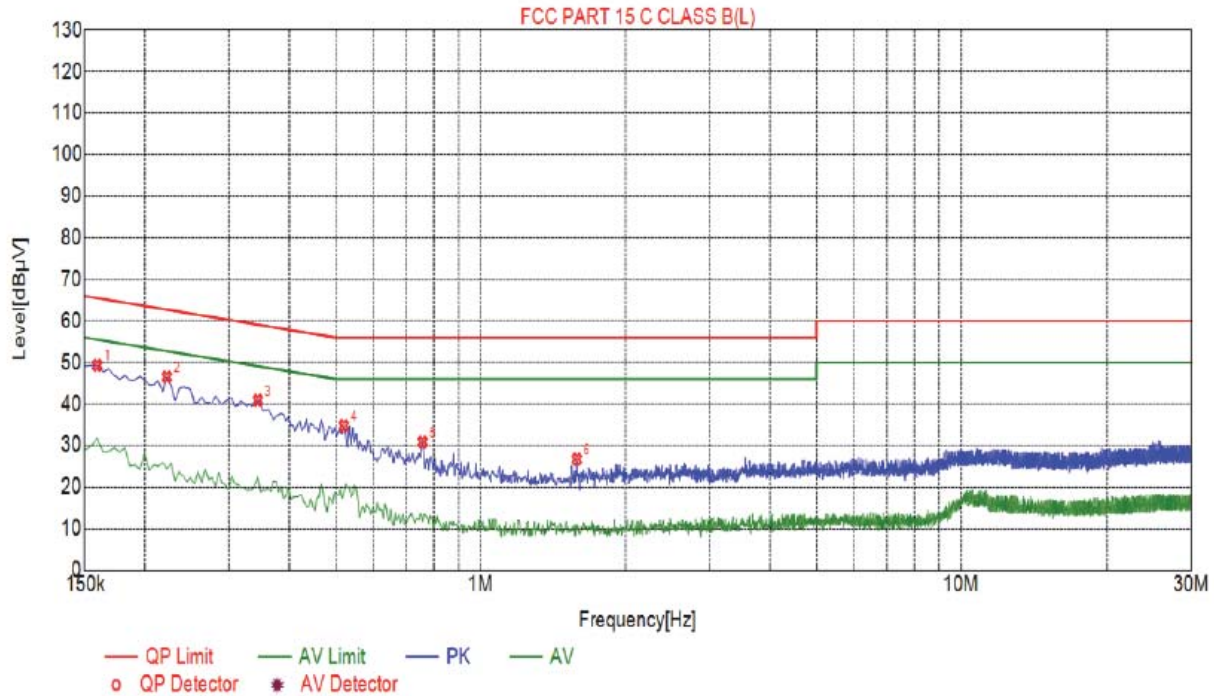
Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



## Adapter 2:

Test Specification: Line



## Suspected List

| NO. | Freq.<br>[MHz] | Level<br>[dBμV] | Factor<br>[dB] | Limit<br>[dBμV] | Margin<br>[dB] | Reading<br>[dBμV] | Detector | Type |
|-----|----------------|-----------------|----------------|-----------------|----------------|-------------------|----------|------|
| 1   | 0.1590         | 49.31           | 20.01          | 65.52           | 16.21          | 29.30             | PK       | L    |
| 2   | 0.2220         | 46.51           | 20.04          | 62.74           | 16.23          | 26.47             | PK       | L    |
| 3   | 0.3435         | 40.87           | 20.03          | 59.12           | 18.25          | 20.84             | PK       | L    |
| 4   | 0.5190         | 34.77           | 20.04          | 56.00           | 21.23          | 14.73             | PK       | L    |
| 5   | 0.7575         | 30.80           | 20.06          | 56.00           | 25.20          | 10.74             | PK       | L    |
| 6   | 1.5855         | 26.69           | 20.11          | 56.00           | 29.31          | 6.58              | PK       | L    |

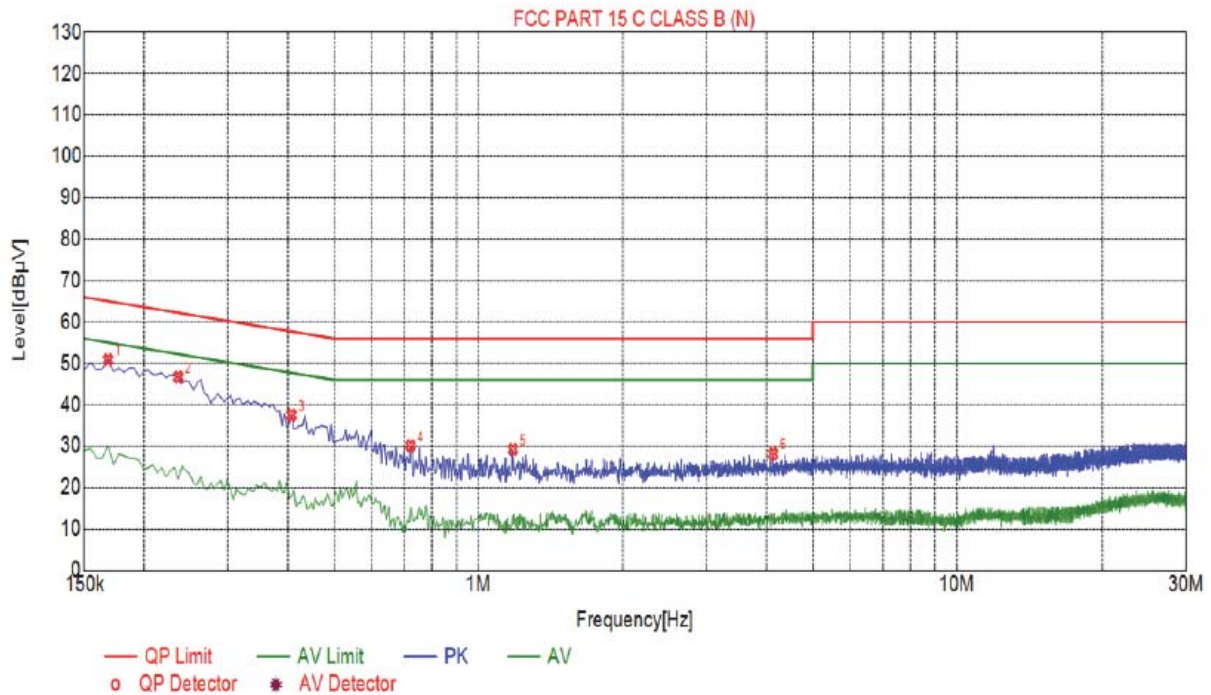
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Test Specification: Neutral



## Suspected List

| NO. | Freq.<br>[MHz] | Level<br>[dBμV] | Factor<br>[dB] | Limit<br>[dBμV] | Margin<br>[dB] | Reading<br>[dBμV] | Detector | Type |
|-----|----------------|-----------------|----------------|-----------------|----------------|-------------------|----------|------|
| 1   | 0.1680         | 50.89           | 20.01          | 65.06           | 14.17          | 30.88             | PK       | N    |
| 2   | 0.2355         | 46.67           | 20.03          | 62.25           | 15.58          | 26.64             | PK       | N    |
| 3   | 0.4065         | 37.53           | 20.03          | 57.72           | 20.19          | 17.50             | PK       | N    |
| 4   | 0.7215         | 30.08           | 20.06          | 56.00           | 25.92          | 10.02             | PK       | N    |
| 5   | 1.1805         | 29.20           | 20.09          | 56.00           | 26.80          | 9.11              | PK       | N    |
| 6   | 4.1280         | 28.12           | 20.25          | 56.00           | 27.88          | 7.87              | PK       | N    |

Remark: Margin = Limit – Level

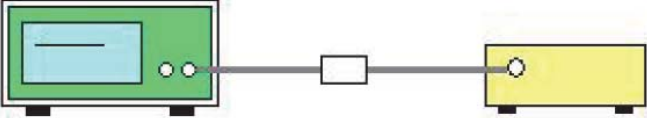
Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



## 4.2. Maximum Conducted Output Power

### 4.2.1. Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>Test Requirement:</b> | FCC Part15 E Section 15.407(a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |
| <b>Test Method:</b>      | KDB789033 D02 General UNII Test Procedures New Rules v02.r01 Section E                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |
| <b>Limit:</b>            | Frequency Band (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Limit |
|                          | 5725-5850                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1 W   |
| <b>Test Setup:</b>       | <br><b>Power meter</b> <b>EUT</b>                                                                                                                                                                                                                                                                                                                                                                                                            |       |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"><li>1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section E, 3, a</li><li>2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.</li><li>3. Set to the maximum power setting and enable the EUT transmit continuously.</li><li>5. Measure the conducted output power and record the results in the test report.</li></ol> |       |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |
| <b>Remark:</b>           | Conducted output power= measurement power +10log(1/x) X is duty cycle=1, so 10log(1/1)=0<br>Conducted output power= measurement power                                                                                                                                                                                                                                                                                                                                                                                          |       |



#### 4.2.2. Test Instruments

| RF Test Room              |              |          |               |                  |                 |
|---------------------------|--------------|----------|---------------|------------------|-----------------|
| Equipment                 | Manufacturer | Model    | Serial Number | Calibration Date | Calibration Due |
| Spectrum analyzer         | Agilent      | N9020A   | HKE-048       | Jun. 18, 2020    | Jun. 17, 2021   |
| Power meter               | Agilent      | E4419B   | HKE-085       | Jun. 18, 2020    | Jun. 17, 2021   |
| Power Sensor              | Agilent      | E9300A   | HKE-086       | Jun. 18, 2020    | Jun. 17, 2021   |
| RF cable                  | Times        | 1-40G    | HKE-034       | Jun. 18, 2020    | Jun. 17, 2021   |
| RF automatic control unit | Tonscend     | JS0806-2 | HKE-060       | Jun. 18, 2020    | Jun. 17, 2021   |

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

**Test Data**

| Configuration Band IV (5725 - 5850 MHz ) |              |                                      |                |                 |        |
|------------------------------------------|--------------|--------------------------------------|----------------|-----------------|--------|
| Mode                                     | Test channel | Maximum Conducted Output Power (dBm) |                | FCC Limit (dBm) | Result |
|                                          |              | Antenna port 1                       | Antenna port 2 |                 |        |
| 11a                                      | CH149        | 9.29                                 | 8.98           | 30              | PASS   |
| 11a                                      | CH157        | 9.12                                 | 8.88           | 30              | PASS   |
| 11a                                      | CH165        | 9.14                                 | 8.97           | 30              | PASS   |
| 11n(HT20)                                | CH149        | 9.30                                 | 8.98           | 30              | PASS   |
| 11n(HT20)                                | CH157        | 9.07                                 | 8.82           | 30              | PASS   |
| 11n(HT20)                                | CH165        | 9.11                                 | 8.93           | 30              | PASS   |
| 11n(HT40)                                | CH151        | 9.42                                 | 9.32           | 30              | PASS   |
| 11n(HT40)                                | CH159        | 9.34                                 | 9.14           | 30              | PASS   |
| 11ac(HT20)                               | CH149        | 9.23                                 | 9.04           | 30              | PASS   |
| 11ac(HT20)                               | CH157        | 9.06                                 | 8.83           | 30              | PASS   |
| 11ac(HT20)                               | CH165        | 9.22                                 | 8.86           | 30              | PASS   |
| 11ac(HT40)                               | CH151        | 9.53                                 | 9.33           | 30              | PASS   |
| 11ac(HT40)                               | CH159        | 9.33                                 | 9.08           | 30              | PASS   |
| 11ac(HT80)                               | CH155        | 9.31                                 | 9.02           | 30              | PASS   |
| 11ax(HT20)                               | CH149        | 9.76                                 | 9.17           | 30              | PASS   |
| 11ax(HT20)                               | CH157        | 9.42                                 | 9.20           | 30              | PASS   |
| 11ax(HT20)                               | CH165        | 9.37                                 | 9.16           | 30              | PASS   |
| 11ax(HT40)                               | CH151        | 9.79                                 | 9.59           | 30              | PASS   |
| 11ax(HT40)                               | CH159        | 9.58                                 | 9.51           | 30              | PASS   |
| 11ax(HT80)                               | CH155        | 9.52                                 | 9.31           | 30              | PASS   |



| Configuration Band IV (5725 - 5850 MHz ) |              |                                      |                 |        |
|------------------------------------------|--------------|--------------------------------------|-----------------|--------|
| Mode                                     | Test channel | Maximum Conducted Output Power (dBm) | FCC Limit (dBm) | Result |
|                                          |              | MIMO                                 |                 |        |
| 11n(HT20)                                | CH149        | 12.15                                | 30              | PASS   |
| 11n(HT20)                                | CH157        | 11.96                                | 30              | PASS   |
| 11n(HT20)                                | CH165        | 12.03                                | 30              | PASS   |
| 11n(HT40)                                | CH151        | 12.38                                | 30              | PASS   |
| 11n(HT40)                                | CH159        | 12.25                                | 30              | PASS   |
| 11ac(HT20)                               | CH149        | 12.15                                | 30              | PASS   |
| 11ac(HT20)                               | CH157        | 11.96                                | 30              | PASS   |
| 11ac(HT20)                               | CH165        | 12.05                                | 30              | PASS   |
| 11ac(HT40)                               | CH151        | 12.44                                | 30              | PASS   |
| 11ac(HT40)                               | CH159        | 12.22                                | 30              | PASS   |
| 11ac(HT80)                               | CH155        | 12.18                                | 30              | PASS   |
| 11ax(HT20)                               | CH157        | 12.49                                | 30              | PASS   |
| 11ax(HT20)                               | CH165        | 12.32                                | 30              | PASS   |
| 11ax(HT40)                               | CH151        | 12.28                                | 30              | PASS   |
| 11ax(HT40)                               | CH159        | 12.70                                | 30              | PASS   |
| 11ax(HT80)                               | CH155        | 12.56                                | 30              | PASS   |

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.



### 4.3. 6dB Emission Bandwidth

#### 4.3.1. Test Specification

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC CFR47 Part 15 Section 15.407(e)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Test Method:      | KDB789033 D02 General UNII Test Procedures New Rules v01r04 Section C                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Limit:            | >500kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Test Setup:       | <br>Spectrum Analyzer                      EUT                                                                                                                                                                                                                                                                                                                                                                                   |
| Test Mode:        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Test Procedure:   | <ol style="list-style-type: none"><li>1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C</li><li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li><li>3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.</li><li>4. Measure and record the results in the test report.</li></ol> |
| Test Result:      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

#### 4.3.2. Test Instruments

| RF Test Room              |              |          |               |                  |                 |
|---------------------------|--------------|----------|---------------|------------------|-----------------|
| Equipment                 | Manufacturer | Model    | Serial Number | Calibration Date | Calibration Due |
| Spectrum analyzer         | Agilent      | N9020A   | HKE-048       | Jun. 18, 2020    | Jun. 17, 2021   |
| RF cable                  | Times        | 1-40G    | HKE-034       | Jun. 18, 2020    | Jun. 17, 2021   |
| RF automatic control unit | Tonscend     | JS0806-2 | HKE-060       | Jun. 18, 2020    | Jun. 17, 2021   |

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

**4.3.3. Test data****ANT 1**

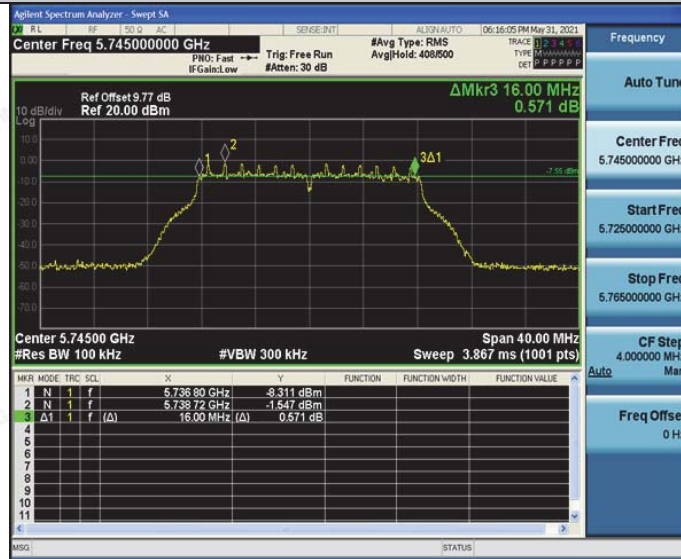
| <b>Band IV (5725 - 5850 MHz )</b> |              |                 |                      |             |        |
|-----------------------------------|--------------|-----------------|----------------------|-------------|--------|
| Mode                              | Test channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | Limit (MHz) | Result |
| 11a                               | CH149        | 5745            | 16.000               | 0.5         | PASS   |
| 11a                               | CH157        | 5785            | 16.000               | 0.5         | PASS   |
| 11a                               | CH165        | 5825            | 16.080               | 0.5         | PASS   |
| 11n(HT20)                         | CH149        | 5745            | 17.320               | 0.5         | PASS   |
| 11n(HT20)                         | CH157        | 5785            | 17.160               | 0.5         | PASS   |
| 11n(HT20)                         | CH165        | 5825            | 17.600               | 0.5         | PASS   |
| 11n(HT40)                         | CH151        | 5755            | 35.920               | 0.5         | PASS   |
| 11n(HT40)                         | CH159        | 5795            | 35.920               | 0.5         | PASS   |
| 11ac(HT20)                        | CH149        | 5745            | 17.600               | 0.5         | PASS   |
| 11ac(HT20)                        | CH157        | 5785            | 17.400               | 0.5         | PASS   |
| 11ac(HT20)                        | CH165        | 5825            | 17.640               | 0.5         | PASS   |
| 11ac(HT40)                        | CH151        | 5755            | 35.920               | 0.5         | PASS   |
| 11ac(HT40)                        | CH159        | 5795            | 35.920               | 0.5         | PASS   |
| 11ac(HT80)                        | CH155        | 5775            | 76.000               | 0.5         | PASS   |
| 11ax(HT20)                        | CH149        | 5745            | 18.880               | 0.5         | PASS   |
| 11ax(HT20)                        | CH157        | 5785            | 18.920               | 0.5         | PASS   |
| 11ax(HT20)                        | CH165        | 5825            | 18.880               | 0.5         | PASS   |
| 11ax(HT40)                        | CH151        | 5755            | 36.080               | 0.5         | PASS   |
| 11ax(HT40)                        | CH159        | 5795            | 36.480               | 0.5         | PASS   |
| 11ax(HT80)                        | CH155        | 5775            | 76.480               | 0.5         | PASS   |

**Test plots as follows:**

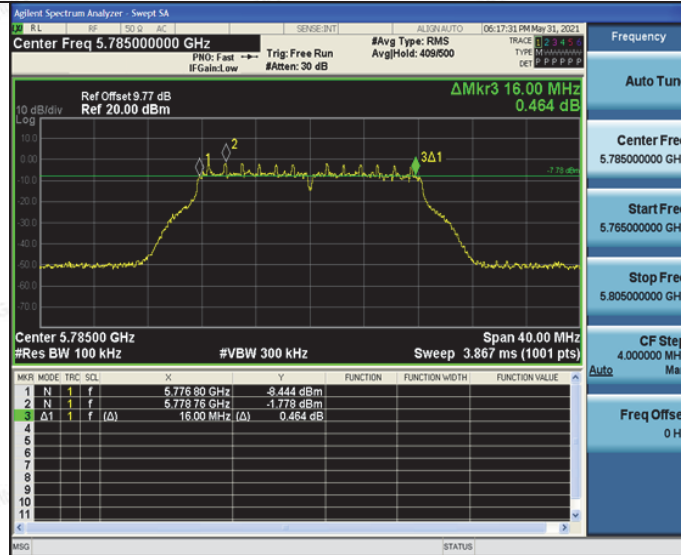


Band IV (5725 – 5850 MHz)

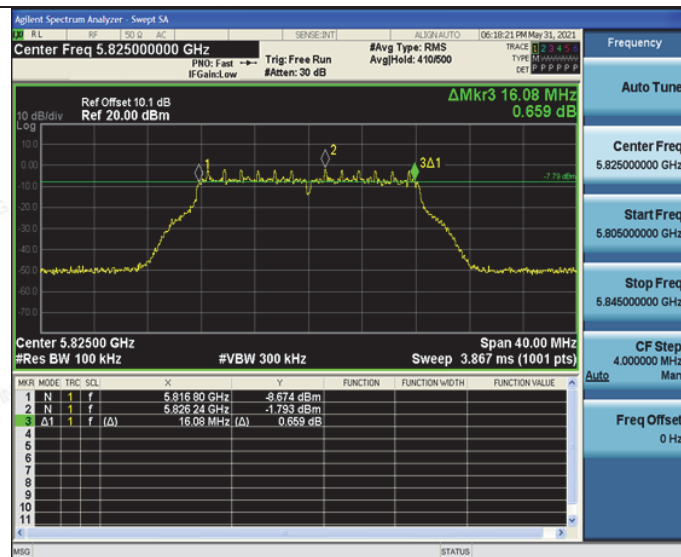
802.11a



Low

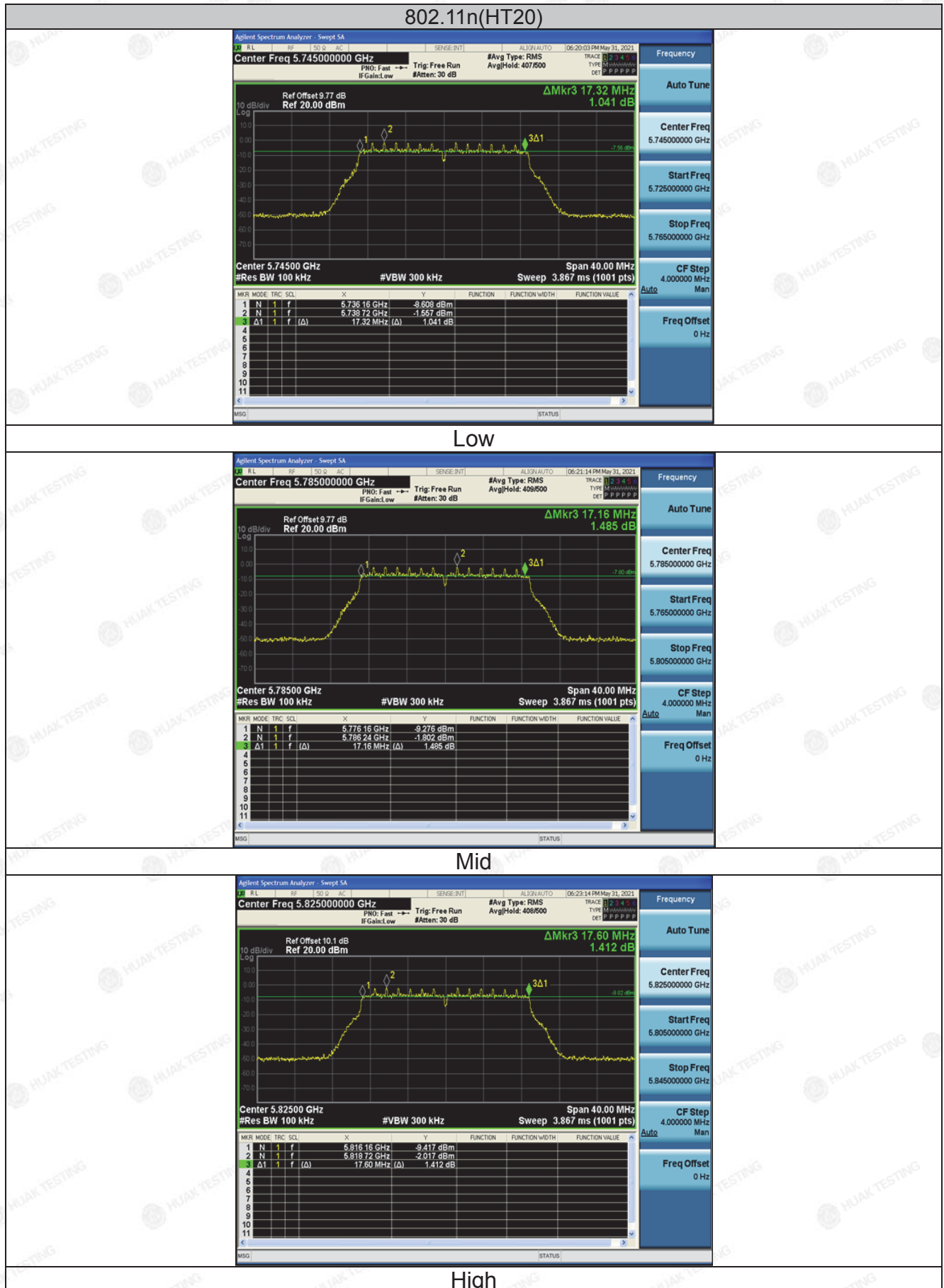


Mid

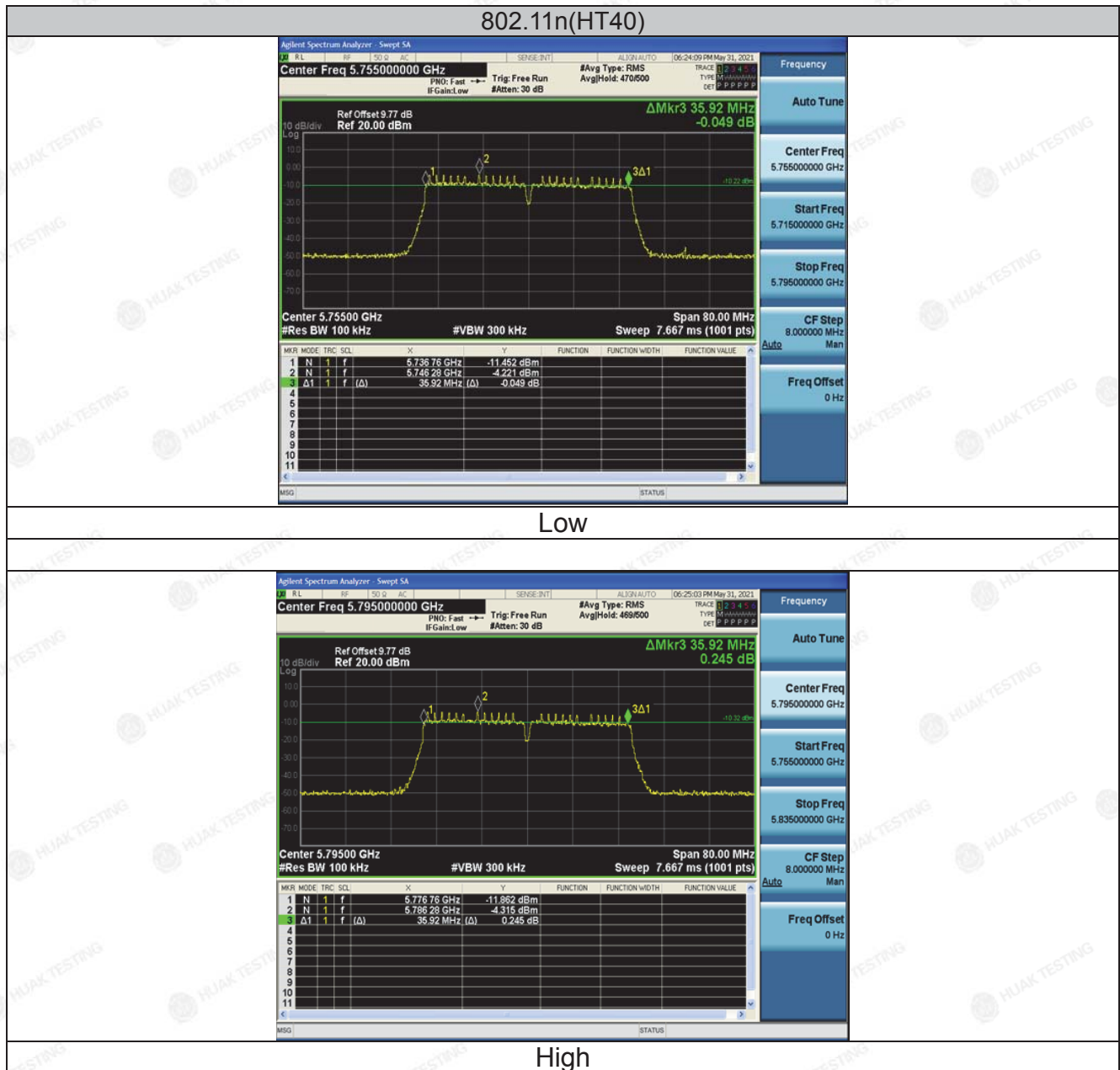


High

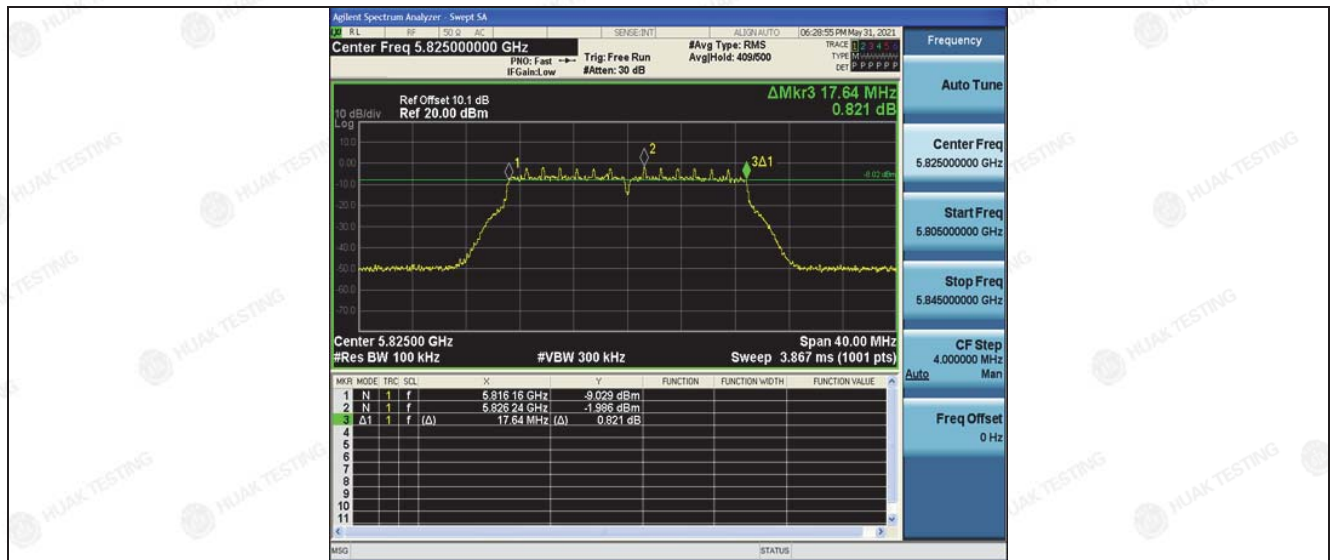
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

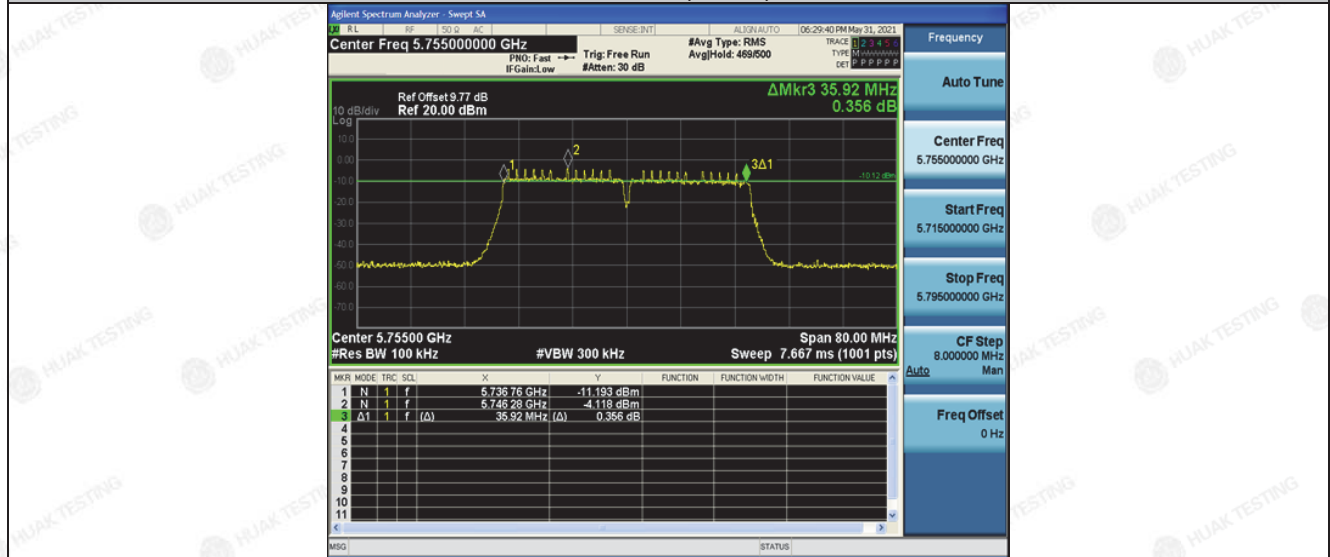




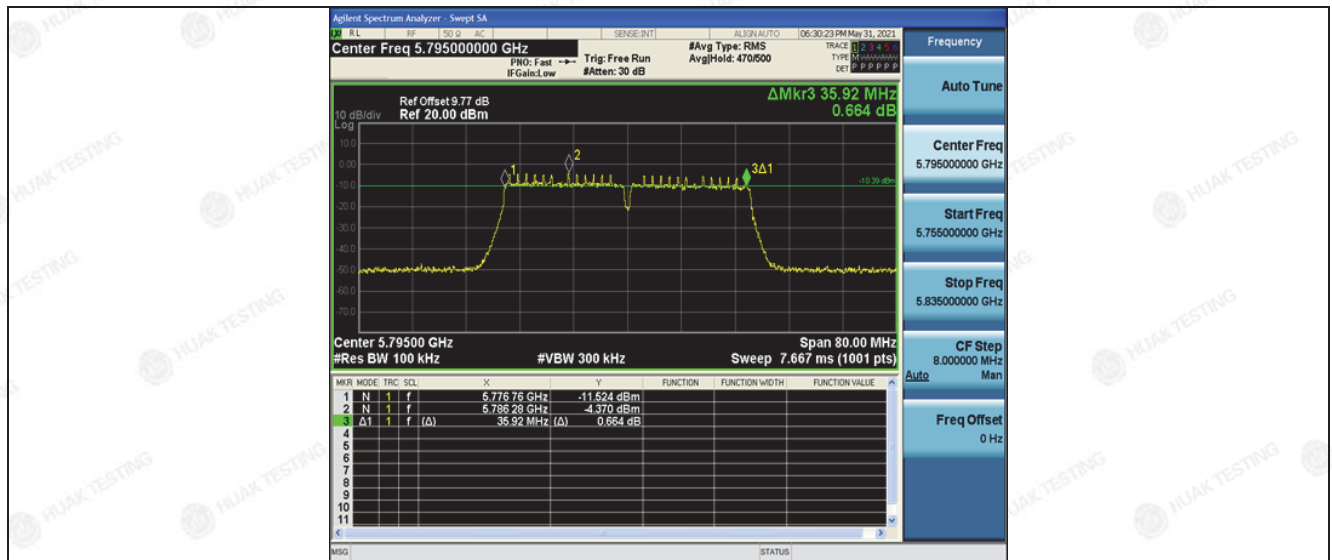


High

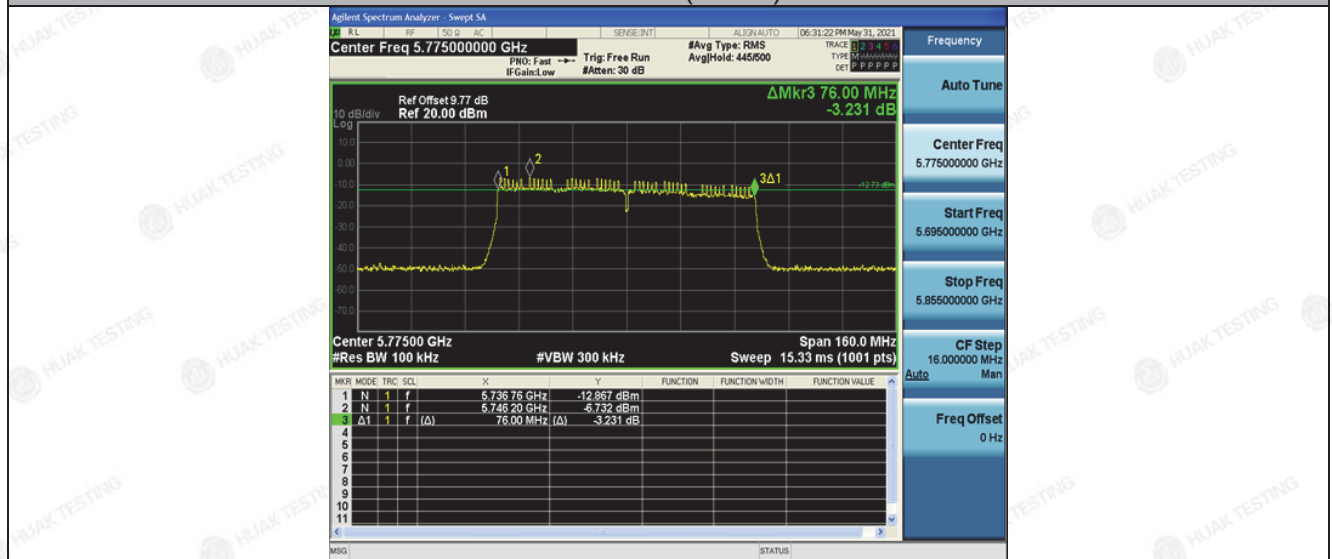
802.11ac(HT40)



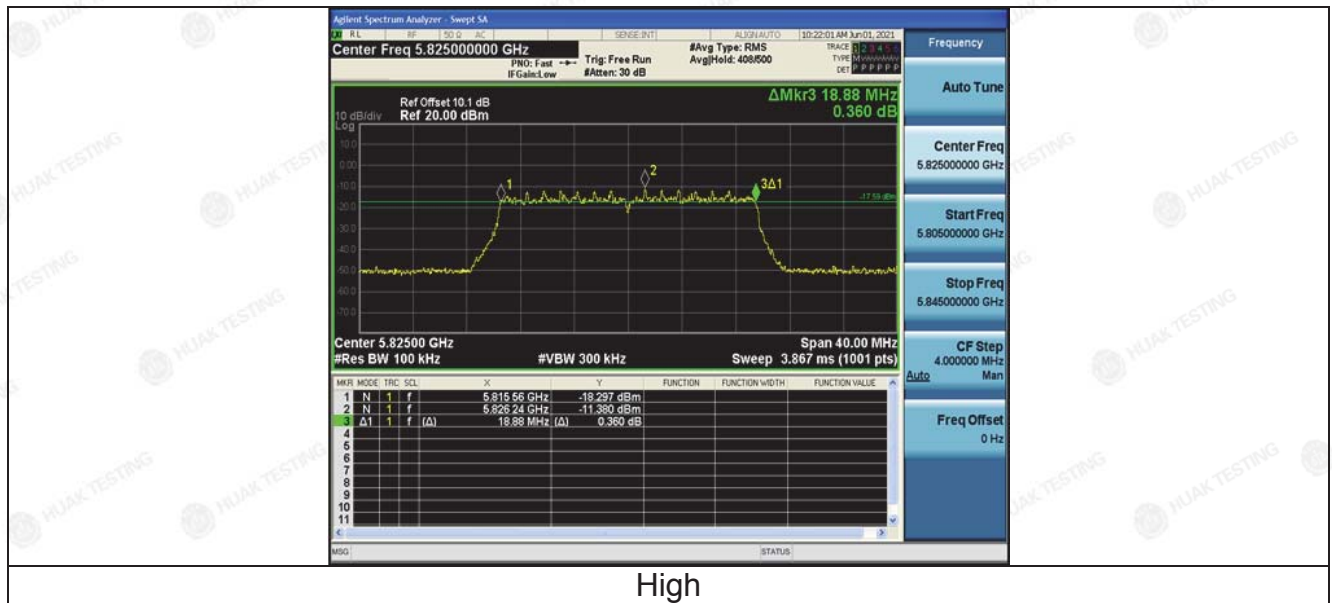
Low



## High 802.11ac(HT80)

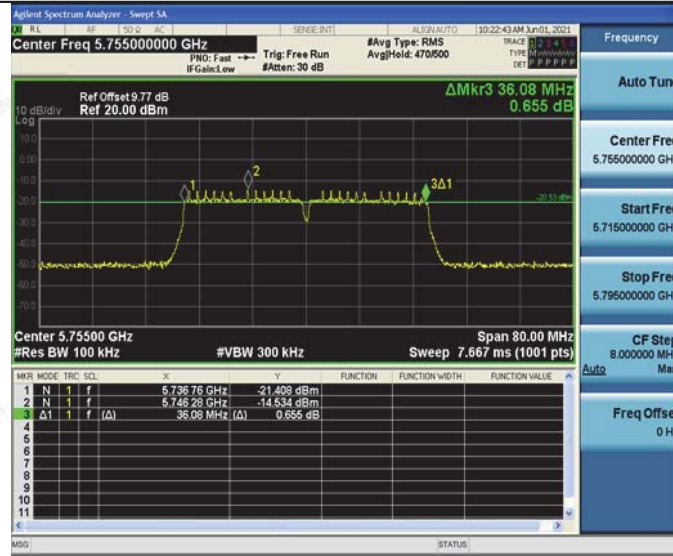




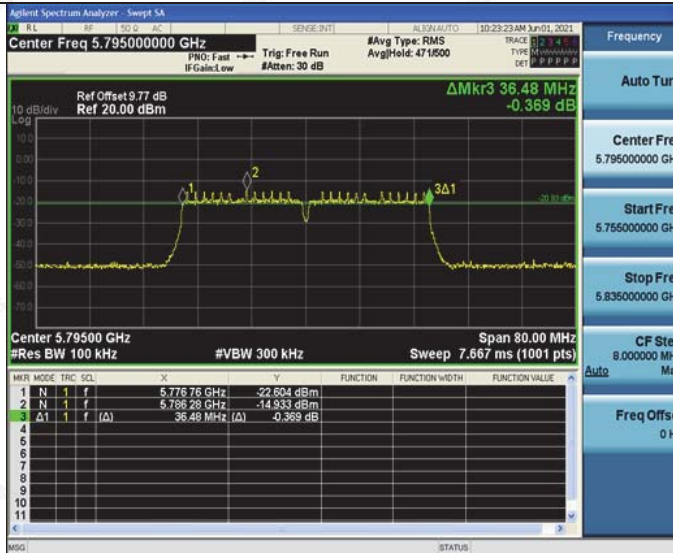




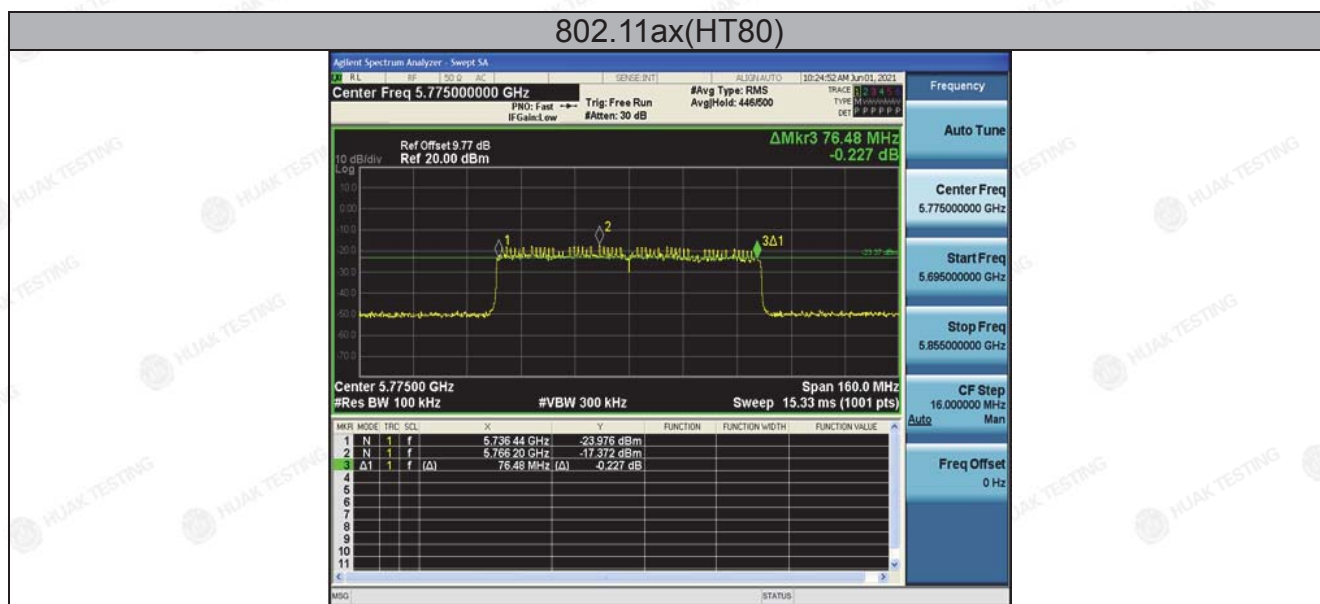
## 802.11ax(HT40)



Low



High



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

HUAKE Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : [service@cer-mark.com](mailto:service@cer-mark.com)

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



## ANT 2

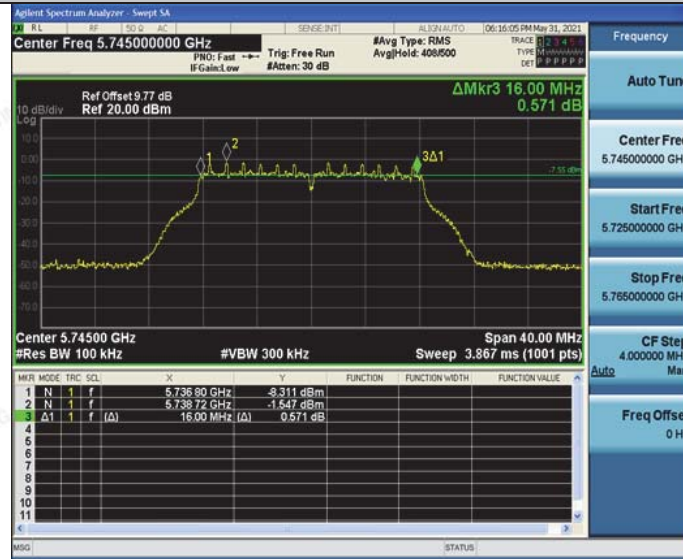
| Band IV (5725 - 5850 MHz ) |              |                 |                      |             |        |
|----------------------------|--------------|-----------------|----------------------|-------------|--------|
| Mode                       | Test channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | Limit (MHz) | Result |
| 11a                        | CH149        | 5745            | 16.000               | 0.5         | PASS   |
| 11a                        | CH157        | 5785            | 16.000               | 0.5         | PASS   |
| 11a                        | CH161        | 5825            | 16.080               | 0.5         | PASS   |
| 11n(HT20)                  | CH149        | 5745            | 17.320               | 0.5         | PASS   |
| 11n(HT20)                  | CH157        | 5785            | 17.160               | 0.5         | PASS   |
| 11n(HT20)                  | CH161        | 5825            | 17.600               | 0.5         | PASS   |
| 11n(HT40)                  | CH151        | 5755            | 35.920               | 0.5         | PASS   |
| 11n(HT40)                  | CH159        | 5795            | 35.920               | 0.5         | PASS   |
| 11ac(HT20)                 | CH149        | 5745            | 17.600               | 0.5         | PASS   |
| 11ac(HT20)                 | CH157        | 5785            | 17.400               | 0.5         | PASS   |
| 11ac(HT20)                 | CH165        | 5825            | 17.640               | 0.5         | PASS   |
| 11ac(HT40)                 | CH151        | 5755            | 35.920               | 0.5         | PASS   |
| 11ac(HT40)                 | CH159        | 5795            | 35.920               | 0.5         | PASS   |
| 11ac(HT80)                 | CH155        | 5755            | 76.000               | 0.5         | PASS   |
| 11ax(HT20)                 | CH149        | 5745            | 17.640               | 0.5         | PASS   |
| 11ax(HT20)                 | CH157        | 5785            | 18.880               | 0.5         | PASS   |
| 11ax(HT20)                 | CH165        | 5825            | 17.640               | 0.5         | PASS   |
| 11ax(HT40)                 | CH151        | 5755            | 36.160               | 0.5         | PASS   |
| 11ax(HT40)                 | CH159        | 5795            | 37.520               | 0.5         | PASS   |
| 11ax(HT80)                 | CH155        | 5755            | 77.120               | 0.5         | PASS   |

Test plots as follows:

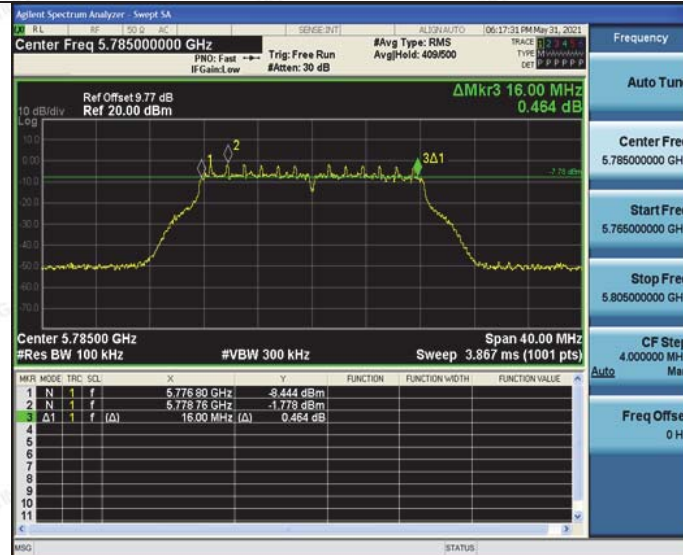


Band IV (5725 – 5850 MHz)

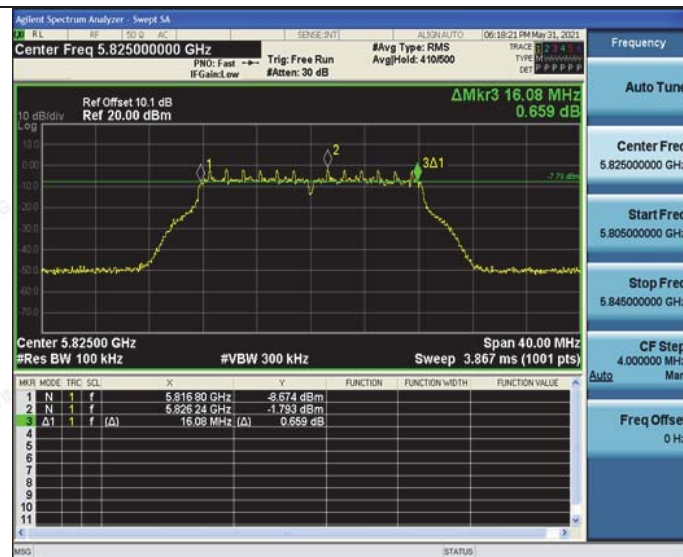
802.11a



Low



Mid

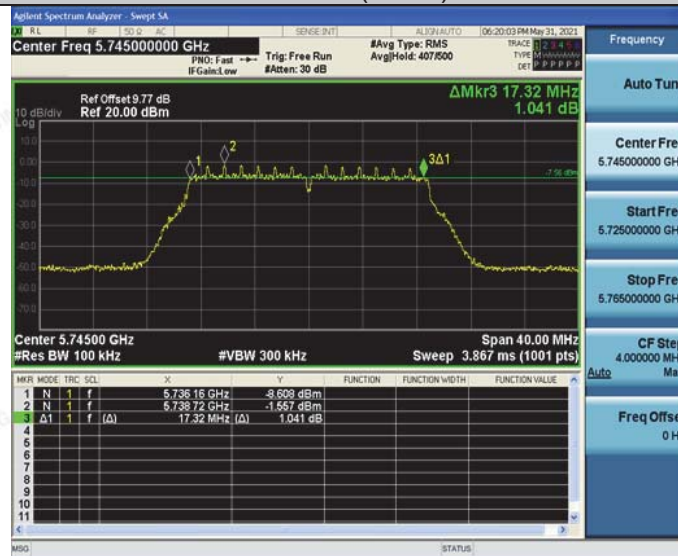


High

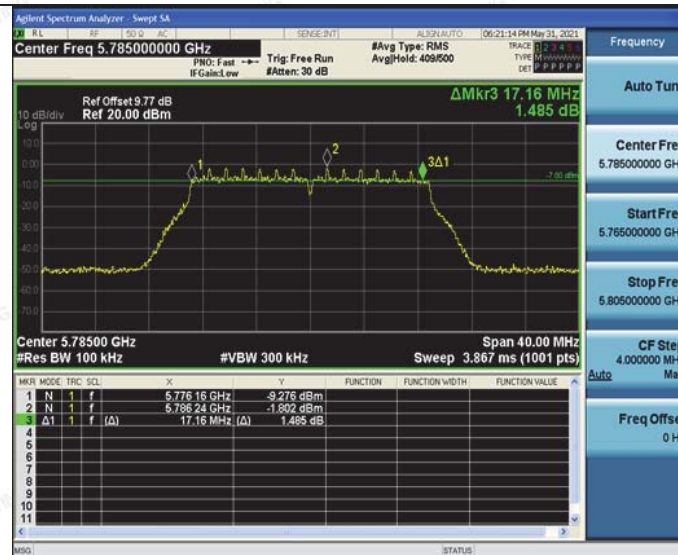
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.



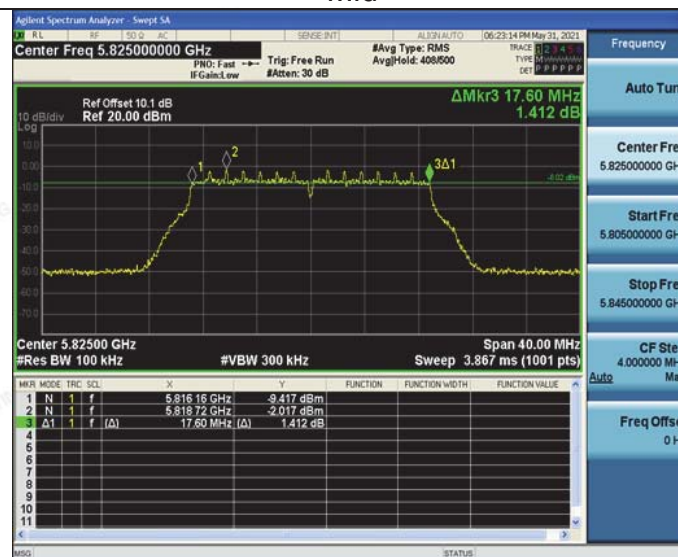
## 802.11n(HT20)



## Low



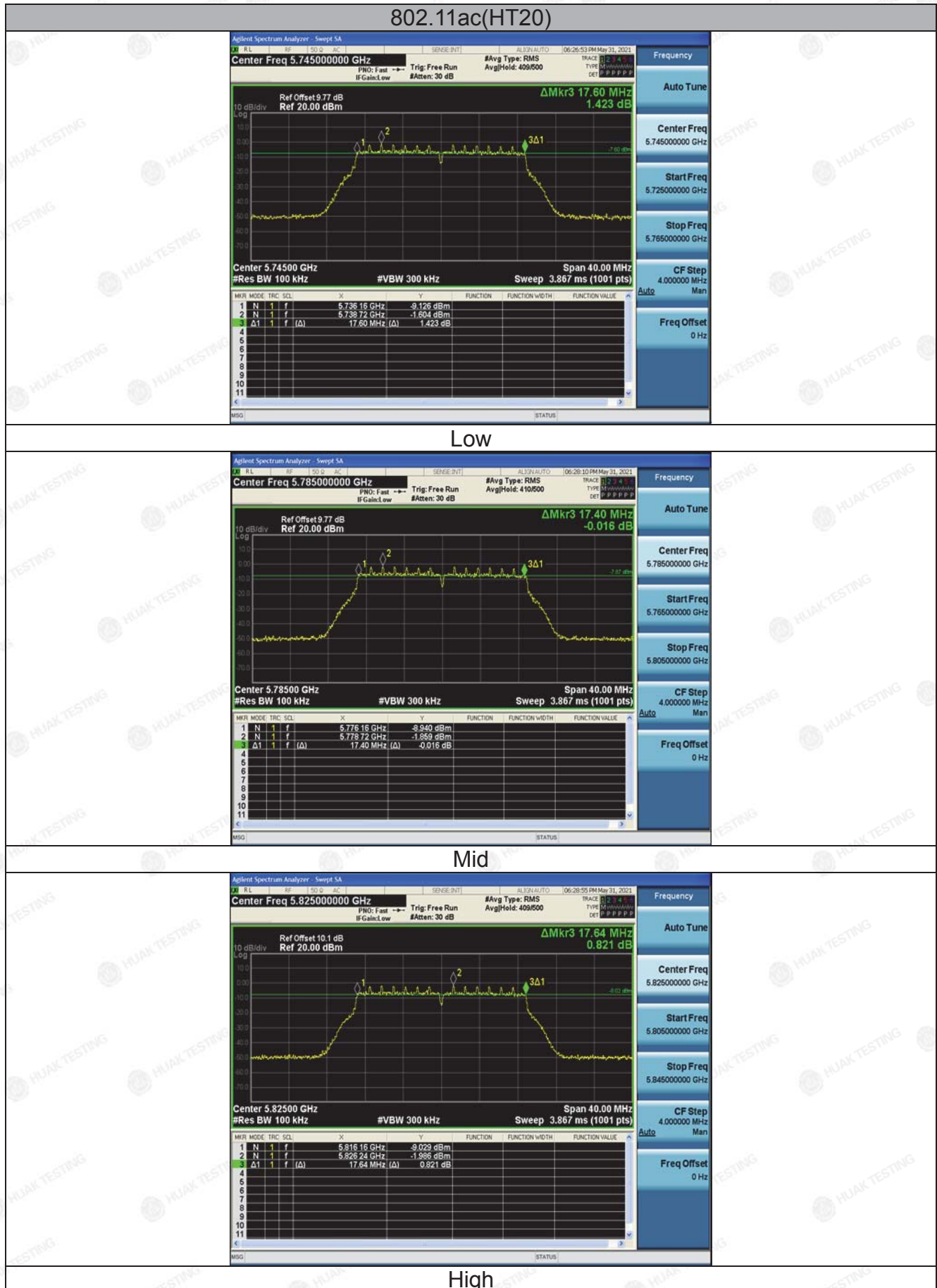
## Mid



## High

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

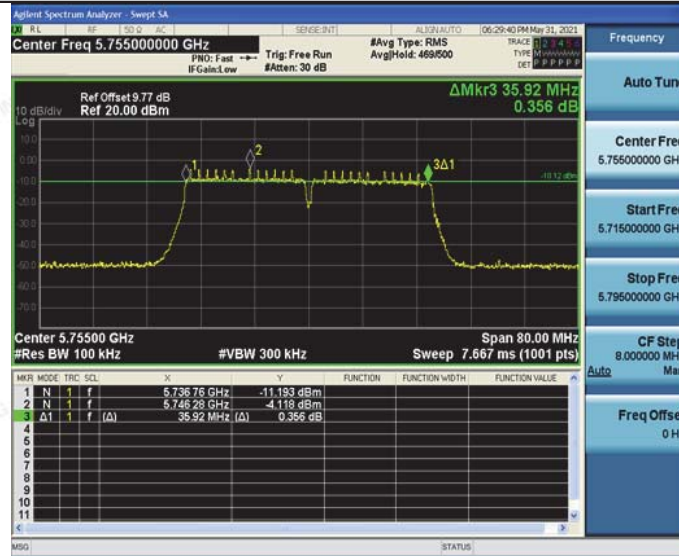




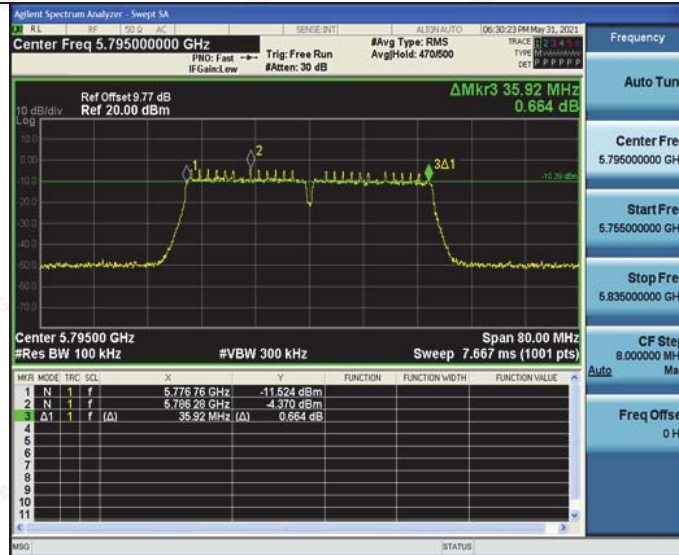
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.



## 802.11ac(HT40)

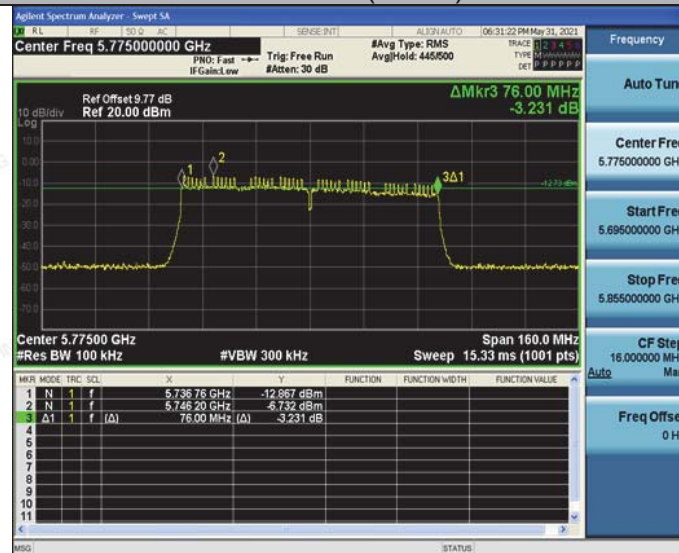


Low



High

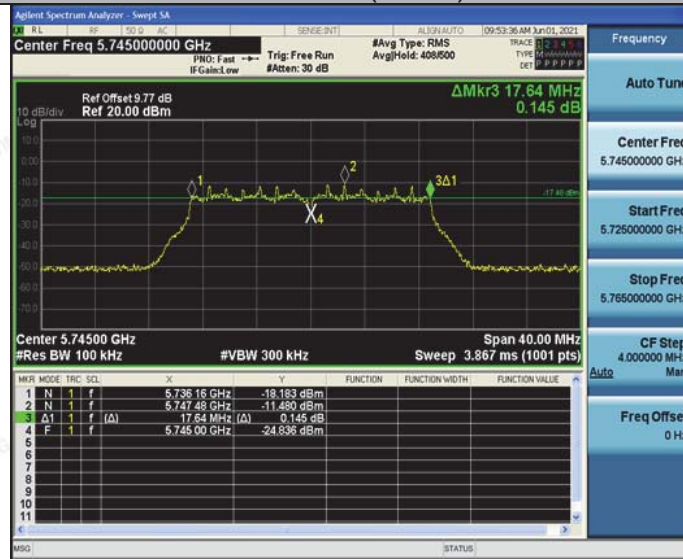
## 802.11ac(HT80)



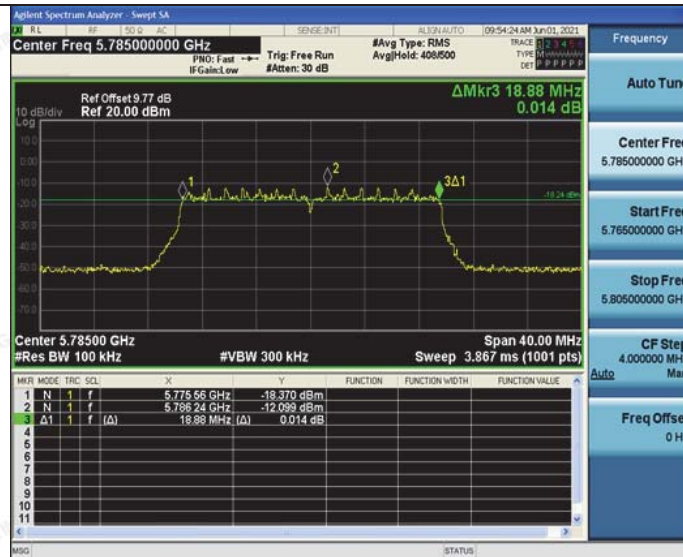
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.



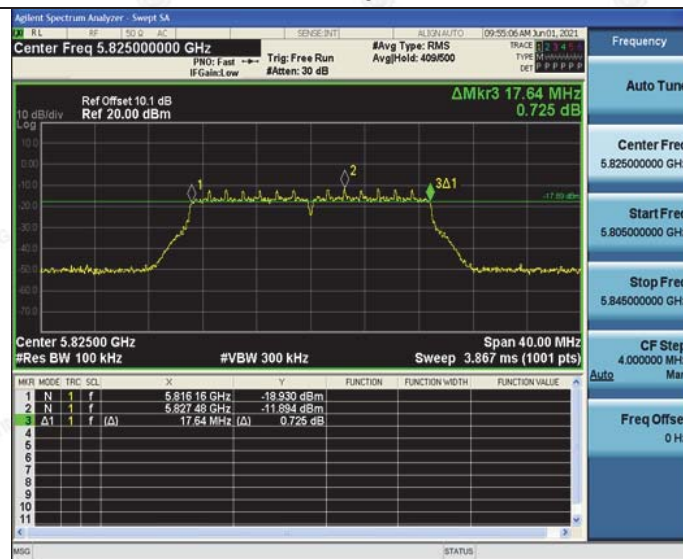
## 802.11ax(HT20)



Low



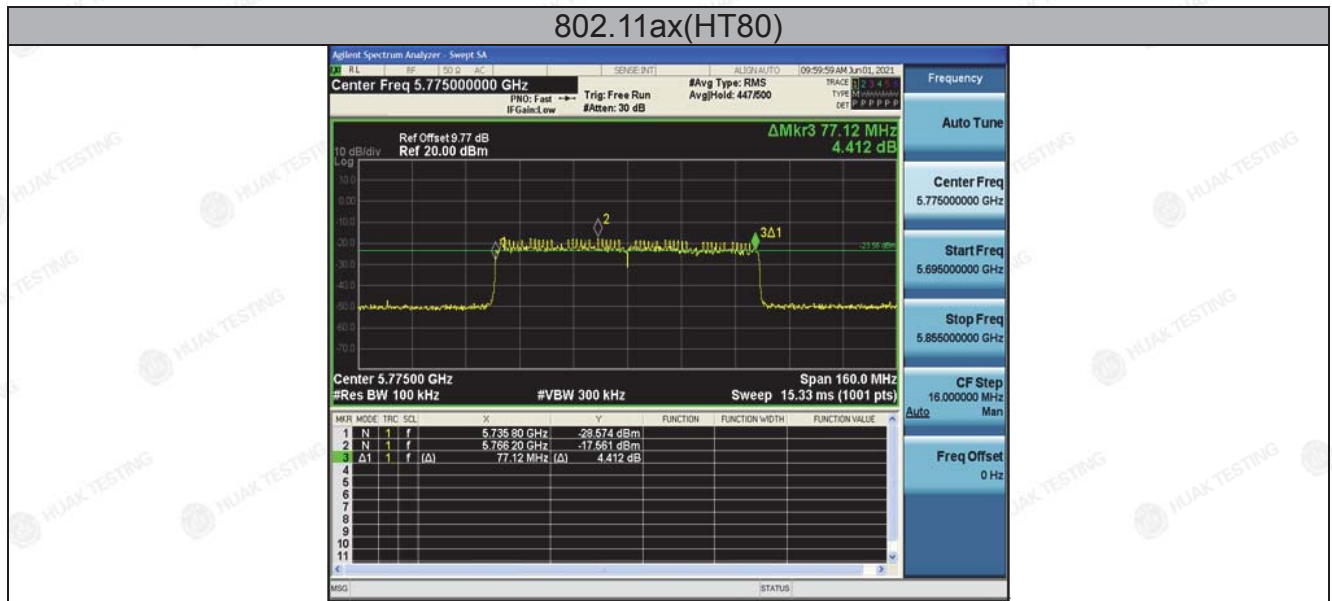
Mid



High

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.





The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

HUAKE Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : [service@cer-mark.com](mailto:service@cer-mark.com)

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



#### 4.4. 26dB Bandwidth and 99% Occupied Bandwidth

##### 4.4.1. Test Specification

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.407 (a)                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Test Method:      | KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C                                                                                                                                                                                                                                                                                                                                                                                                    |
| Limit:            | No restriction limits                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Test Setup:       | <br>Spectrum Analyzer                      EUT                                                                                                                                                                                                                                                                                                                                         |
| Test Mode:        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Test Procedure:   | <ol style="list-style-type: none"><li>1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C</li><li>2. Set to the maximum power setting and enable the EUT transmit continuously.</li><li>3. Make the measurement with the spectrum analyzer's resolution bandwidth <math>RBW = 1\% \text{ EBW}</math>, <math>VBW \geq 3RBW</math>, In order to make an accurate measurement.</li><li>4. Measure and record the results in the test report.</li></ol> |
| Test Result:      | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

##### 4.4.2. Test Instruments

| RF Test Room              |              |          |               |                  |                 |
|---------------------------|--------------|----------|---------------|------------------|-----------------|
| Equipment                 | Manufacturer | Model    | Serial Number | Calibration Date | Calibration Due |
| Spectrum analyzer         | Agilent      | N9020A   | HKE-048       | Jun. 18, 2020    | Jun. 17, 2021   |
| RF cable                  | Times        | 1-40G    | HKE-034       | Jun. 18, 2020    | Jun. 17, 2021   |
| RF automatic control unit | Tonscend     | JS0806-2 | HKE-060       | Jun. 18, 2020    | Jun. 17, 2021   |

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



#### **4.4.3. Test Result**

**N/A**



## 4.5. Power Spectral Density

### 4.5.1. Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC Part15 E Section 15.407 (a)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Test Method:</b>      | KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Limit:</b>            | $\leq 30.00\text{dBm}/500\text{KHz}$ for Band IV 5725MHz-5850MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Test Setup:</b>       |  <p style="text-align: center;">Spectrum Analyzer                      EUT</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"> <li>1. Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth.</li> <li>1. Set RBW = 510 kHz/1 MHz, VBW <math>\geq 3 \times</math> RBW, Sweep time = Auto, Detector = RMS.</li> <li>2. Allow the sweeps to continue until the trace stabilizes.</li> <li>3. Use the peak marker function to determine the maximum amplitude level.</li> <li>4. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.</li> </ol> |
| <b>Test Result:</b>      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

### 4.5.2. Test Instruments

| RF Test Room              |              |          |               |                  |                 |
|---------------------------|--------------|----------|---------------|------------------|-----------------|
| Equipment                 | Manufacturer | Model    | Serial Number | Calibration Date | Calibration Due |
| Spectrum analyzer         | Agilent      | N9020A   | HKE-048       | Jun. 18, 2020    | Jun. 17, 2021   |
| RF cable                  | Times        | 1-40G    | HKE-034       | Jun. 18, 2020    | Jun. 17, 2021   |
| RF automatic control unit | Tonscend     | JS0806-2 | HKE-060       | Jun. 18, 2020    | Jun. 17, 2021   |

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



## 4.5.3. Test data

## ANT 1

| Configuration Band IV (5725 - 5850 MHz ) |              |                    |                |                        |                    |        |
|------------------------------------------|--------------|--------------------|----------------|------------------------|--------------------|--------|
| Mode                                     | Test channel | Level [dBm/510kHz] | 10log(500/510) | Power Spectral Density | Limit (dBm/500kHz) | Result |
| 11a                                      | CH149        | 4.99               | -0.086         | 4.904                  | 30                 | PASS   |
| 11a                                      | CH157        | 4.97               | -0.086         | 4.884                  | 30                 | PASS   |
| 11a                                      | CH165        | 3.57               | -0.086         | 3.484                  | 30                 | PASS   |
| 11n HT20                                 | CH149        | 2.98               | -0.086         | 2.894                  | 28.5               | PASS   |
| 11n HT20                                 | CH157        | 2.79               | -0.086         | 2.704                  | 28.5               | PASS   |
| 11n HT20                                 | CH165        | 3.07               | -0.086         | 2.984                  | 28.5               | PASS   |
| 11n HT40                                 | CH151        | 0.94               | -0.086         | 0.854                  | 28.5               | PASS   |
| 11n HT40                                 | CH159        | 1.05               | -0.086         | 0.964                  | 28.5               | PASS   |
| 11ac HT20                                | CH149        | 2.39               | -0.086         | 2.304                  | 28.5               | PASS   |
| 11ac HT20                                | CH157        | 1.44               | -0.086         | 1.354                  | 28.5               | PASS   |
| 11ac HT20                                | CH165        | 1.45               | -0.086         | 1.364                  | 28.5               | PASS   |
| 11ac HT40                                | CH151        | -0.55              | -0.086         | -0.636                 | 28.5               | PASS   |
| 11ac HT40                                | CH159        | -0.44              | -0.086         | -0.526                 | 28.5               | PASS   |
| 11ac HT80                                | CH155        | -3.26              | -0.086         | -3.346                 | 28.5               | PASS   |
| 11ax HT20                                | CH149        | 4                  | -0.086         | 3.914                  | 28.5               | PASS   |
| 11ax HT20                                | CH157        | 4.3                | -0.086         | 4.214                  | 28.5               | PASS   |
| 11ax HT20                                | CH165        | 3.58               | -0.086         | 3.494                  | 28.5               | PASS   |
| 11ax HT40                                | CH151        | 1.04               | -0.086         | 0.954                  | 28.5               | PASS   |
| 11ax HT40                                | CH159        | 1.75               | -0.086         | 1.664                  | 28.5               | PASS   |
| 11ax HT80                                | CH155        | -0.83              | -0.086         | -0.916                 | 28.5               | PASS   |

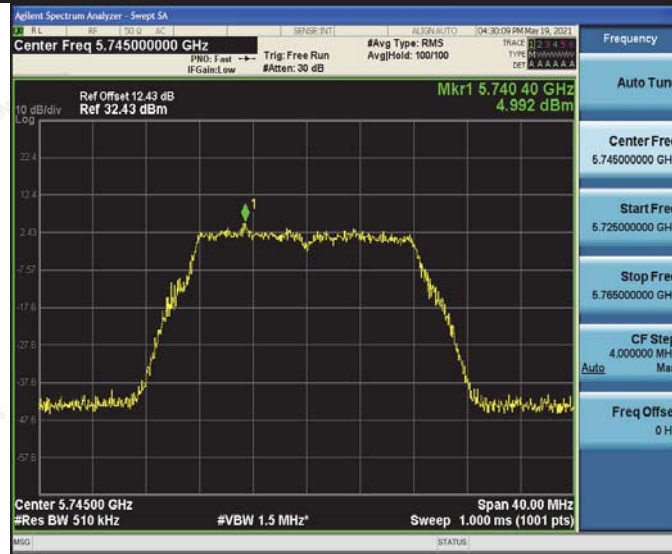
limit=30dBm-(direction gain-6dBi)=30-(4.5+10log2-6)=28.5dBm

Test plots as follows:



Band IV (5725 – 5850 MHz)

802.11a



Low



Mid

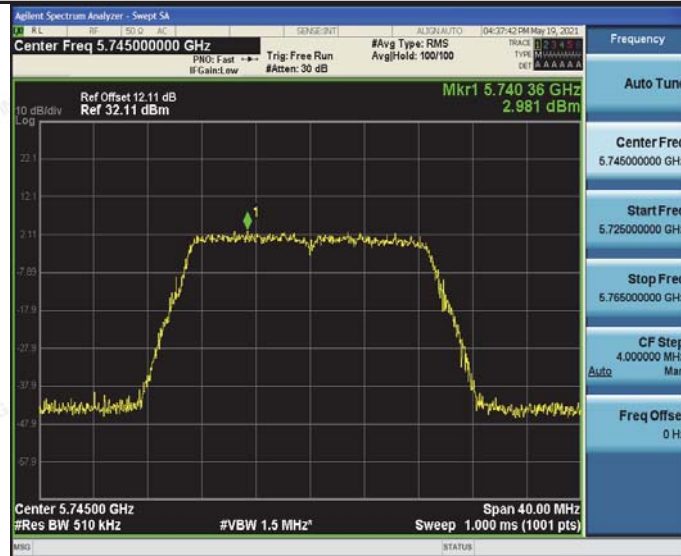


High

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.



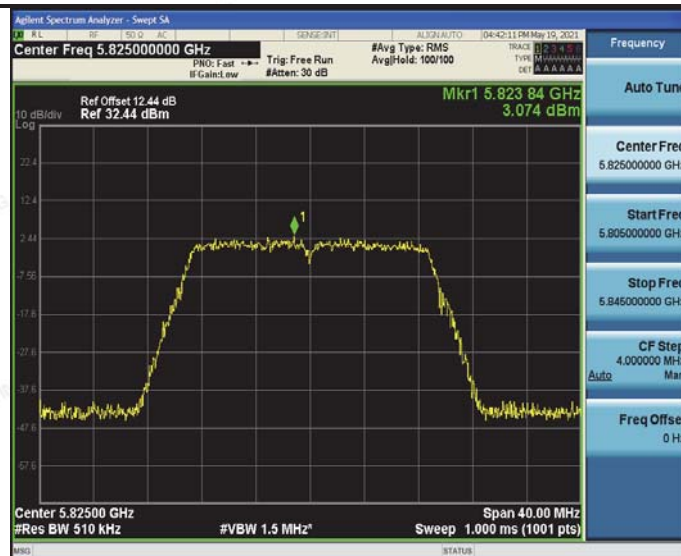
## 802.11n(HT20)



Low



Mid

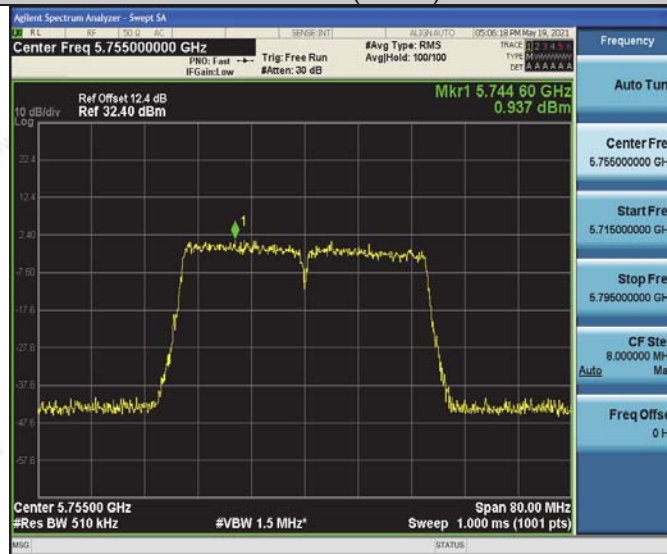


High

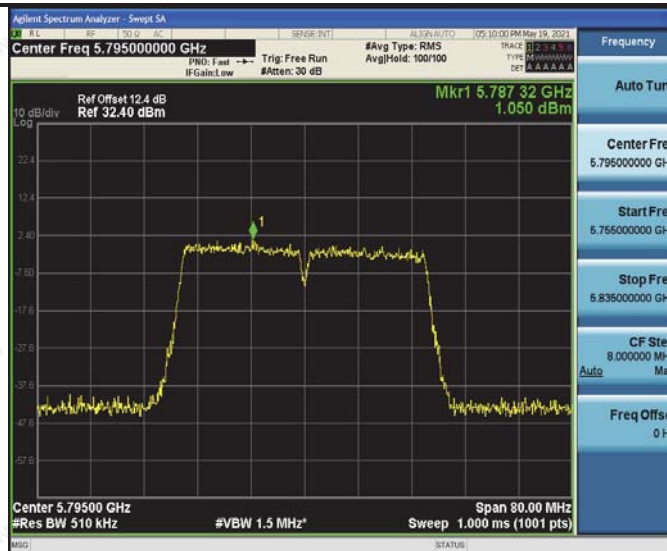
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.



## 802.11n(HT40)

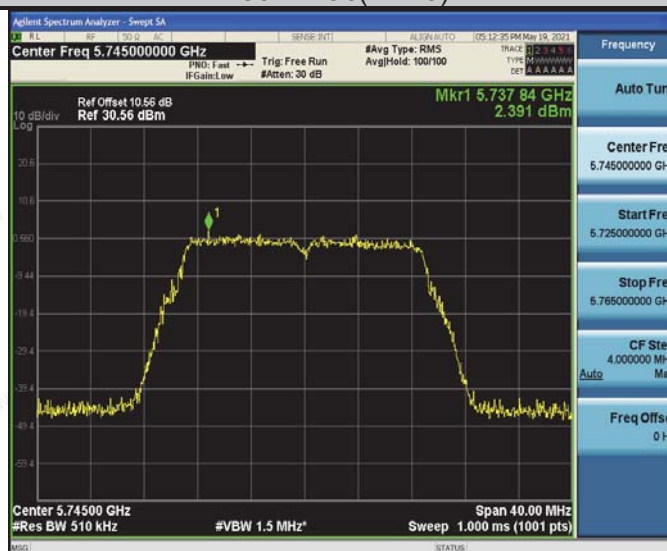


Low



High

## 802.11ac(HT20)



Low

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

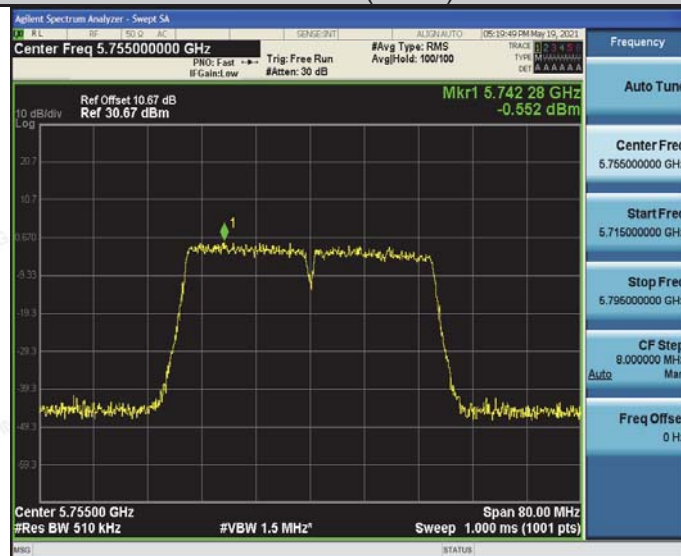


Mid



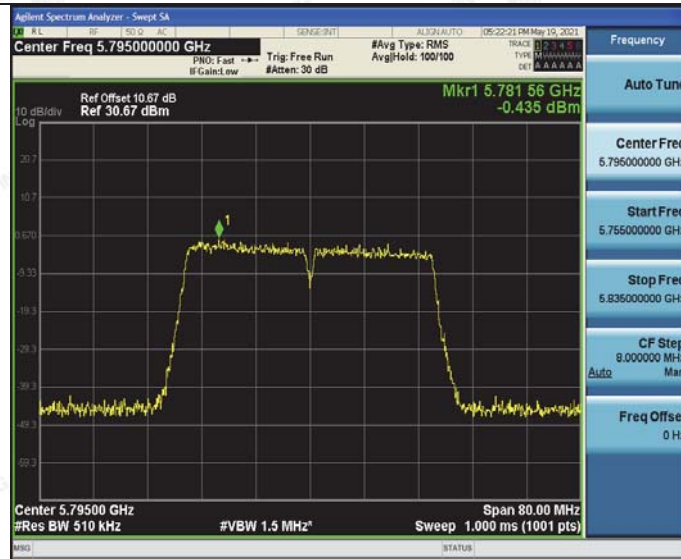
High

802.11ac(HT40)

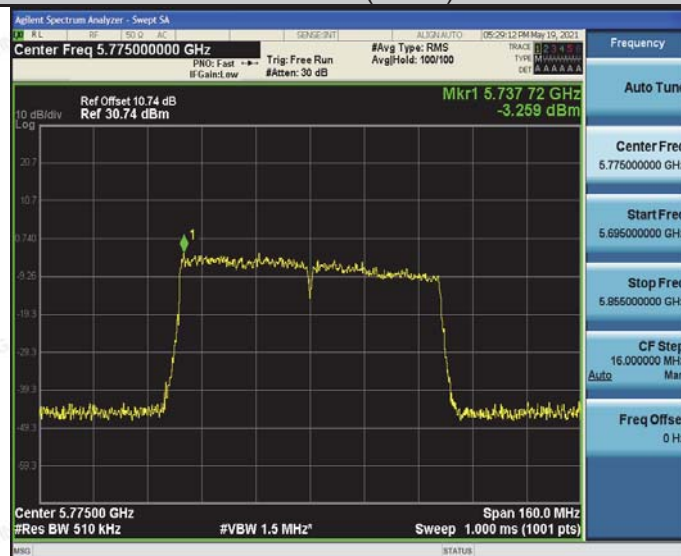


Low

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.



High  
802.11ac(HT80)



802.11ax(HT20)

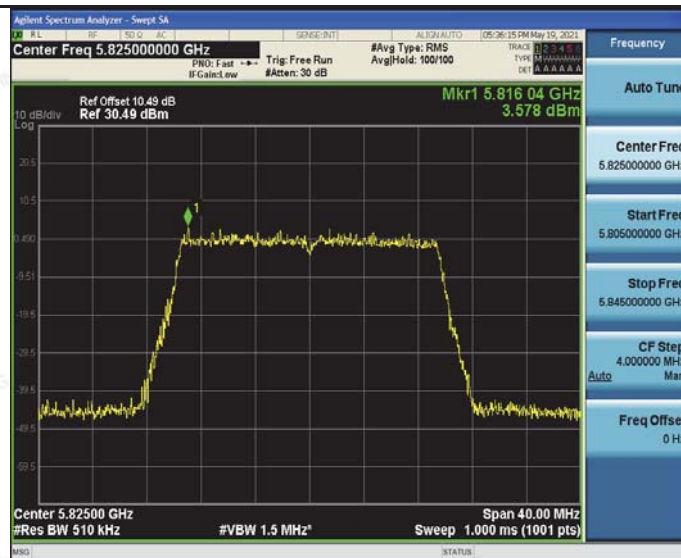


Low

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

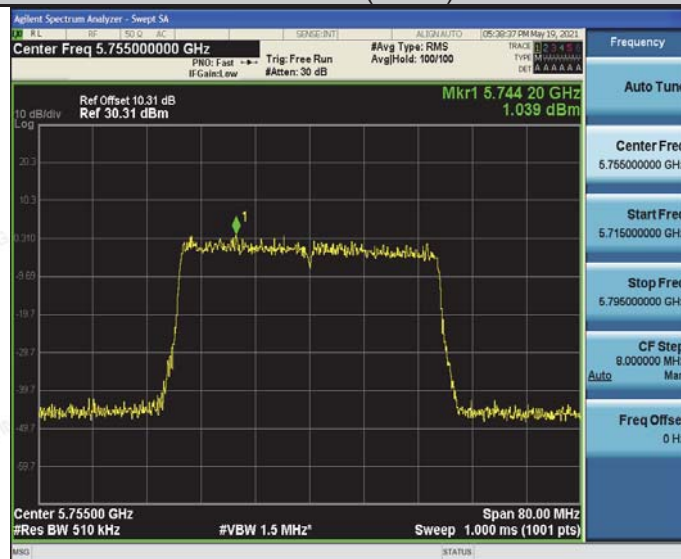


Mid



High

802.11ax(HT40)

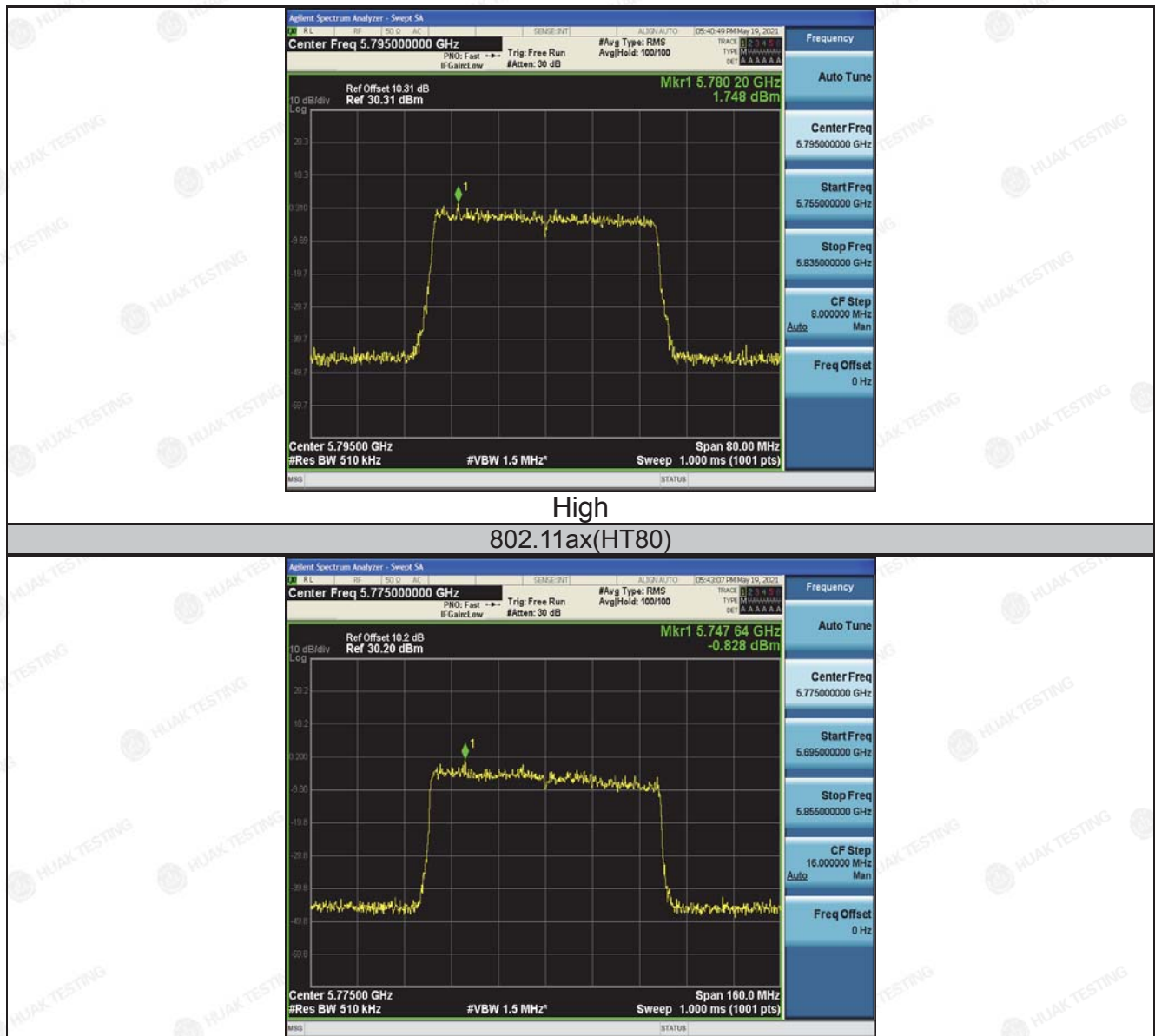


Low

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

HUAKE Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : [service@cer-mark.com](mailto:service@cer-mark.com)

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

HUAKE Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : [service@cer-mark.com](mailto:service@cer-mark.com)

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



## ANT 2

| Configuration Band IV (5725 - 5850 MHz ) |              |                    |                       |                        |                    |        |
|------------------------------------------|--------------|--------------------|-----------------------|------------------------|--------------------|--------|
| Mode                                     | Test channel | Level [dBm/500kHz] | 10log(1/x) Factor[dB] | Power Spectral Density | Limit (dBm/500kHz) | Result |
| 11a                                      | CH149        | 3.43               | -0.086                | 3.344                  | 30                 | PASS   |
| 11a                                      | CH157        | 4.53               | -0.086                | 4.444                  | 30                 | PASS   |
| 11a                                      | CH161        | 4.66               | -0.086                | 4.574                  | 30                 | PASS   |
| 11n(HT20)                                | CH149        | 3.06               | -0.086                | 2.974                  | 28.5               | PASS   |
| 11n(HT20)                                | CH157        | 2.71               | -0.086                | 2.624                  | 28.5               | PASS   |
| 11n(HT20)                                | CH161        | 2.67               | -0.086                | 2.584                  | 28.5               | PASS   |
| 11n(HT40)                                | CH151        | 0.97               | -0.086                | 0.884                  | 28.5               | PASS   |
| 11n(HT40)                                | CH159        | 0.94               | -0.086                | 0.854                  | 28.5               | PASS   |
| 11ac(HT20)                               | CH149        | 1.57               | -0.086                | 1.484                  | 28.5               | PASS   |
| 11ac(HT20)                               | CH157        | 1.35               | -0.086                | 1.264                  | 28.5               | PASS   |
| 11ac(HT20)                               | CH161        | 1.21               | -0.086                | 1.124                  | 28.5               | PASS   |
| 11ac(HT40)                               | CH151        | -0.94              | -0.086                | -1.026                 | 28.5               | PASS   |
| 11ac(HT40)                               | CH159        | -0.82              | -0.086                | -0.906                 | 28.5               | PASS   |
| 11ac(HT80)                               | CH155        | -4.06              | -0.086                | -4.146                 | 28.5               | PASS   |
| 11ax(HT20)                               | CH149        | 3.76               | -0.086                | 3.674                  | 28.5               | PASS   |
| 11ax(HT20)                               | CH157        | 4.05               | -0.086                | 3.964                  | 28.5               | PASS   |
| 11ax(HT20)                               | CH161        | 3.71               | -0.086                | 3.624                  | 28.5               | PASS   |
| 11ax(HT40)                               | CH151        | 0.52               | -0.086                | 0.434                  | 28.5               | PASS   |
| 11ax(HT40)                               | CH159        | 1.29               | -0.086                | 1.204                  | 28.5               | PASS   |
| 11ax(HT80)                               | CH155        | -1.25              | -0.086                | -1.336                 | 28.5               | PASS   |

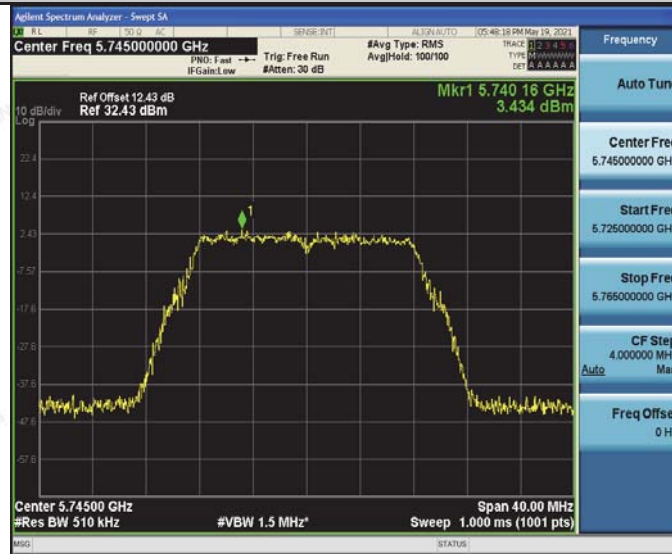
limit=30dBm-(direction gain-6dBi)=30-(4.5+10log2-6)=28.5dBm

Test plots as follows:



Band IV (5725 – 5850 MHz)

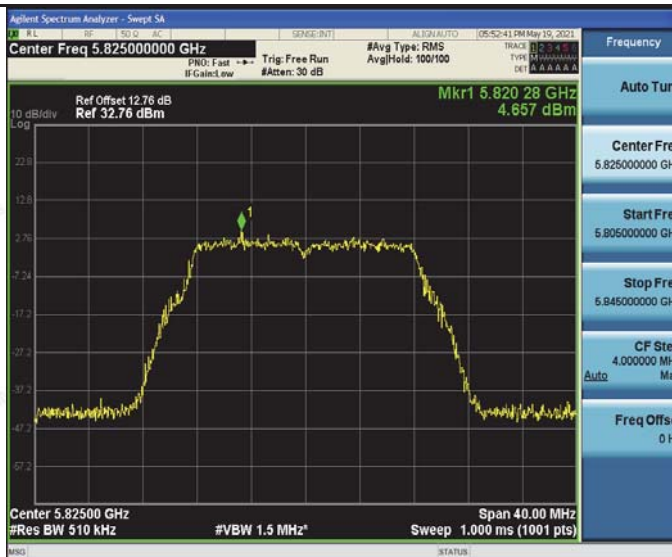
802.11a



Low



Mid



High

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.



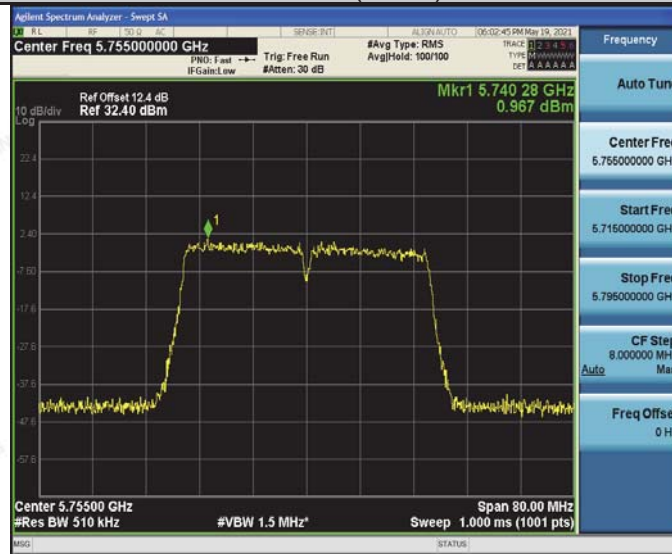
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

HUAKE Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : [service@cer-mark.com](mailto:service@cer-mark.com)

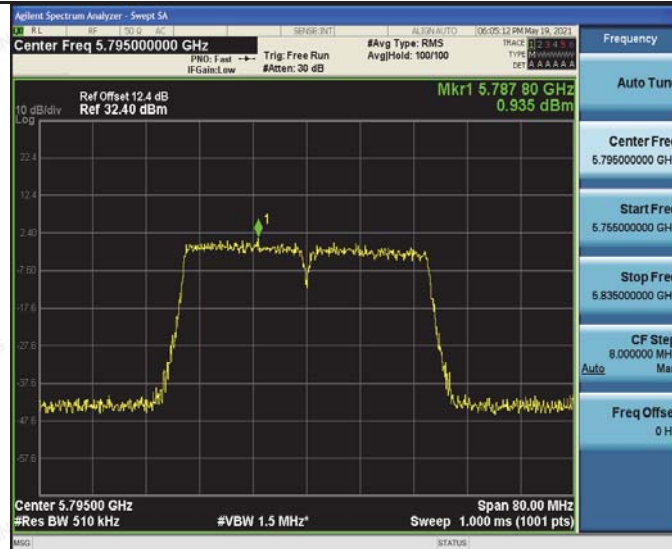
1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



802.11n(HT40)

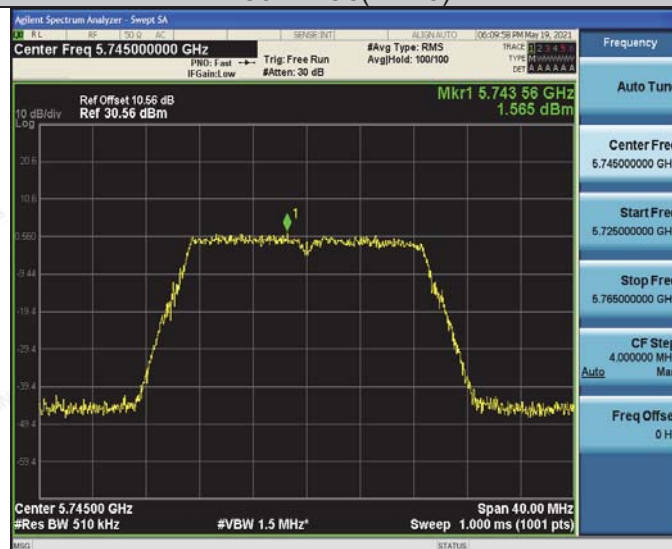


Low



High

802.11ac(HT20)



Low

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

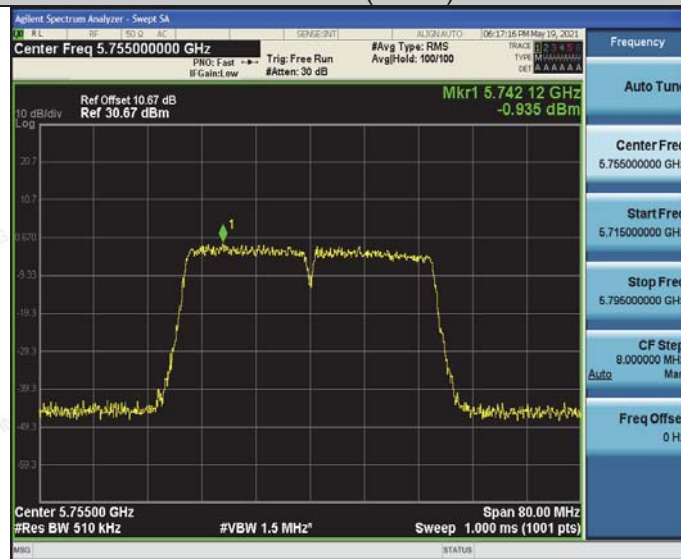


Mid



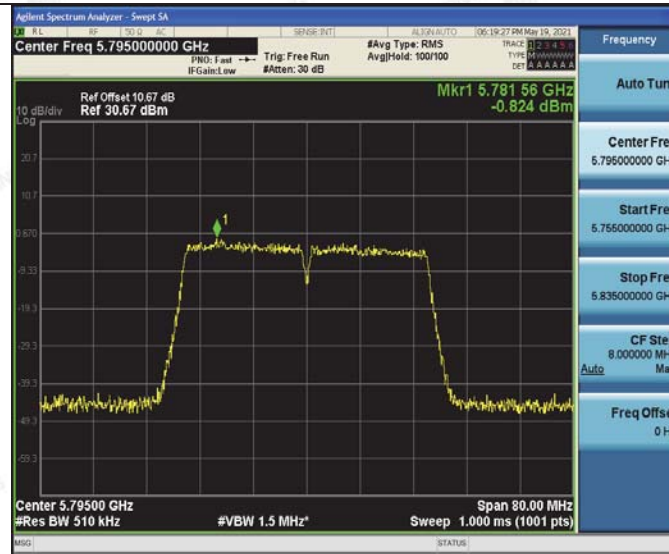
High

802.11ac(HT40)

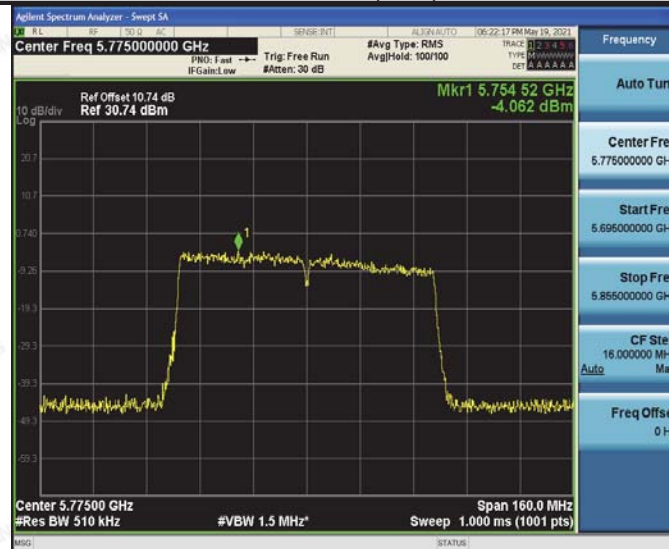


Low

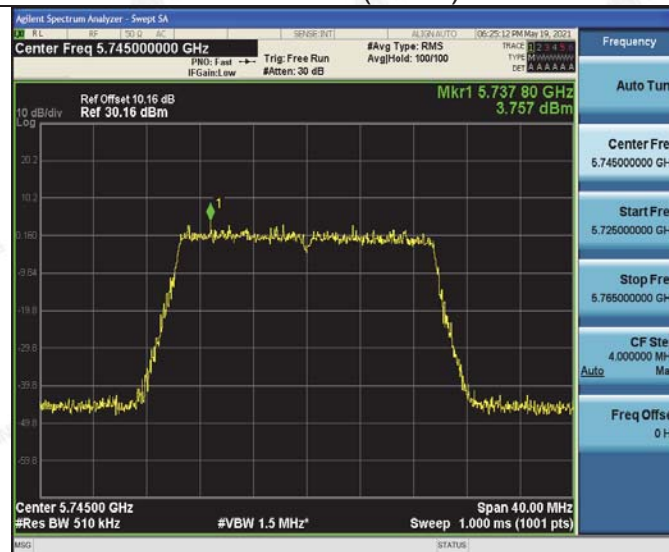
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.



High  
802.11ac(T80)



802.11ax(HT20)



Low

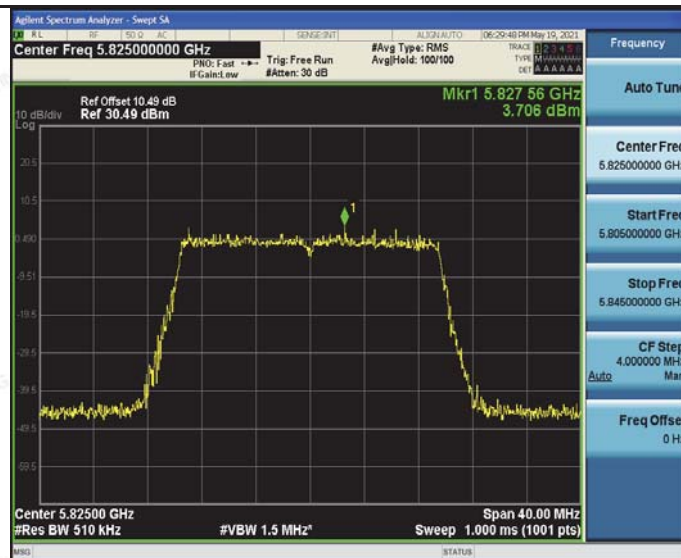
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

HUAKE Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : [service@cer-mark.com](mailto:service@cer-mark.com)

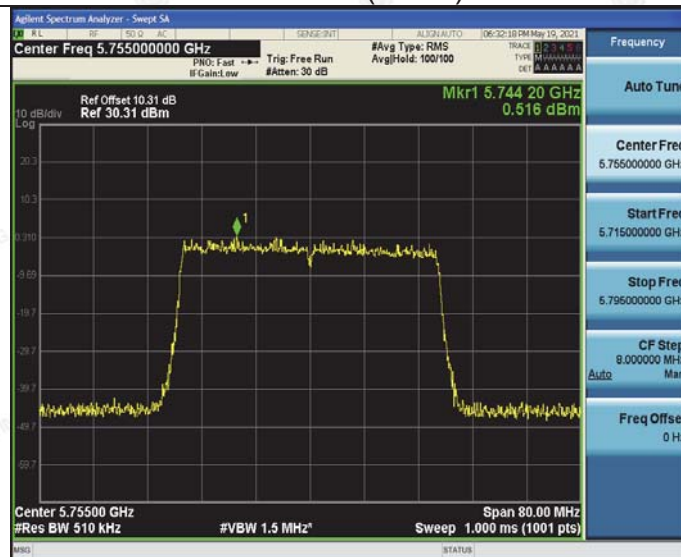
1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



Mid



High  
802.11ax(HT40)

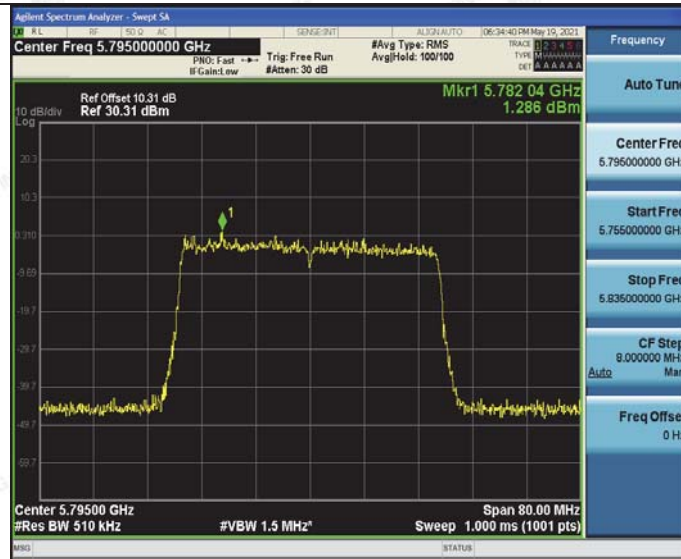


Low

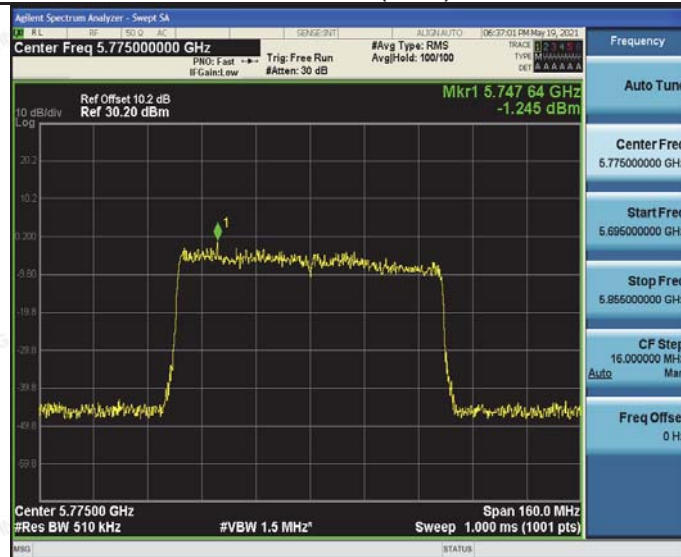
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

HUAKE Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : [service@cer-mark.com](mailto:service@cer-mark.com)

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



High  
802.11ax(T80)





## For MIMO antenna port 1+antenna port 2

## Configuration Band IV (5725 - 5850 MHz )

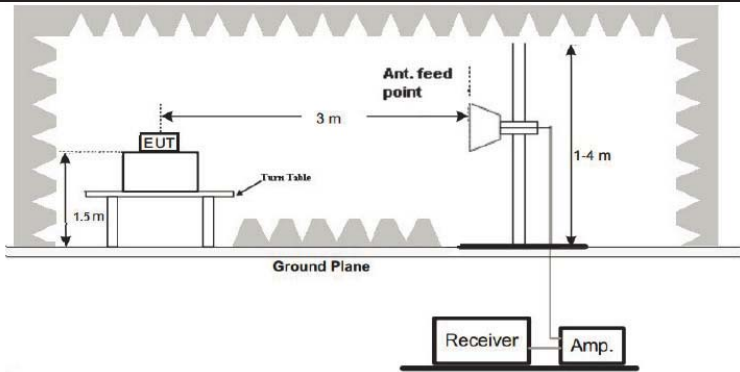
| Mode                                                                                                                                                                                                                         | Test channel | Power Density (dBm) | Limit (dBm) | Result |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------|-------------|--------|
| 11a                                                                                                                                                                                                                          | CH149        | /                   | 30          | /      |
| 11a                                                                                                                                                                                                                          | CH157        | /                   | 30          | /      |
| 11a                                                                                                                                                                                                                          | CH161        | /                   | 30          | /      |
| 11n(HT20)                                                                                                                                                                                                                    | CH149        | 6.03                | 28.5        | PASS   |
| 11n(HT20)                                                                                                                                                                                                                    | CH157        | 5.76                | 28.5        | PASS   |
| 11n(HT20)                                                                                                                                                                                                                    | CH161        | 5.88                | 28.5        | PASS   |
| 11n(HT40)                                                                                                                                                                                                                    | CH151        | 3.97                | 28.5        | PASS   |
| 11n(HT40)                                                                                                                                                                                                                    | CH159        | 4.01                | 28.5        | PASS   |
| 11ac(HT20)                                                                                                                                                                                                                   | CH149        | 5.01                | 28.5        | PASS   |
| 11ac(HT20)                                                                                                                                                                                                                   | CH157        | 4.41                | 28.5        | PASS   |
| 11ac(HT20)                                                                                                                                                                                                                   | CH161        | 4.34                | 28.5        | PASS   |
| 11ac(HT40)                                                                                                                                                                                                                   | CH151        | 2.27                | 28.5        | PASS   |
| 11ac(HT40)                                                                                                                                                                                                                   | CH159        | 2.38                | 28.5        | PASS   |
| 11ac(HT80)                                                                                                                                                                                                                   | CH155        | -0.63               | 28.5        | PASS   |
| 11ax(HT20)                                                                                                                                                                                                                   | CH149        | 6.89                | 28.5        | PASS   |
| 11ax(HT20)                                                                                                                                                                                                                   | CH157        | 7.19                | 28.5        | PASS   |
| 11ax(HT20)                                                                                                                                                                                                                   | CH161        | 6.66                | 28.5        | PASS   |
| 11ax(HT40)                                                                                                                                                                                                                   | CH151        | 3.80                | 28.5        | PASS   |
| 11ax(HT40)                                                                                                                                                                                                                   | CH159        | 4.54                | 28.5        | PASS   |
| 11ax(HT80)                                                                                                                                                                                                                   | CH155        | 1.98                | 28.5        | PASS   |
| Note: 1 According to KDB 662911, Result power = $10\log(10^{(ant1/10)} + 10^{(ant2/10)})$ .<br>2 Result unit: W, The end result is converted to units of dBm.<br>limit=30dBm-(direction gain-6dBi)=30-(4.5+10log2-6)=28.5dBm |              |                     |             |        |

Note: This product supports antenna 1 and antenna 2 launch, but only support 802.11 n/ac for MIMO mode, not support 802.11 a for MIMO mode.



## 4.6. Band edge

### 4.6.1. Test Specification

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test Requirement:</b> | FCC CFR47 Part 15E Section 15.407                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Test Method:</b>      | ANSI C63.10 2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Limit:</b>            | (1) For transmitters operating in the 5.725-5.85 GHz band:<br>(i) 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.<br>The limit of frequency below 1GHz and which fall in restricted bands should complies 15.209.                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Test Setup:</b>       |  <p>The diagram illustrates the test setup. An EUT (Equipment Under Test) is placed on a turn table at a height of 1.5 m. The turn table is 3 m away from an antenna feed point. The antenna feed point is at a height of 1-4 m. The entire setup is on a ground plane. A receiver and an amplifier are connected to the antenna feed point.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Test Mode:</b>        | Transmitting mode with modulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Test Procedure:</b>   | <ol style="list-style-type: none"><li>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</li><li>2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li><li>3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li><li>4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</li><li>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li></ol> |



|                     |                                                                                                                                                                                                                                                                                                                                                       |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. |
| <b>Test Result:</b> | PASS                                                                                                                                                                                                                                                                                                                                                  |



## 4.6.2. Test Instruments

| Radiated Emission Test Site (966) |              |                    |               |                  |                 |
|-----------------------------------|--------------|--------------------|---------------|------------------|-----------------|
| Name of Equipment                 | Manufacturer | Model              | Serial Number | Calibration Date | Calibration Due |
| Receiver                          | R&S          | ESRP3              | HKE-005       | Jun. 18, 2020    | Jun. 17, 2021   |
| Spectrum analyzer                 | Agilent      | N9020A             | HKE-048       | Jun. 18, 2020    | Jun. 17, 2021   |
| Preamplifier                      | EMCI         | EMC051845S<br>E    | HKE-015       | Jun. 18, 2020    | Jun. 17, 2021   |
| Preamplifier                      | Agilent      | 83051A             | HKE-016       | Jun. 18, 2020    | Jun. 17, 2021   |
| Loop antenna                      | Schwarzbeck  | FMZB 1519 B        | HKE-014       | Jun. 18, 2020    | Jun. 17, 2021   |
| Broadband antenna                 | Schwarzbeck  | VULB 9163          | HKE-012       | Jun. 18, 2020    | Jun. 17, 2021   |
| Horn antenna                      | Schwarzbeck  | 9120D              | HKE-013       | Jun. 18, 2020    | Jun. 17, 2021   |
| Antenna Mast                      | Keleto       | CC-A-4M            | N/A           | N/A              | N/A             |
| Position controller               | Taiwan MF    | MF7802             | HKE-011       | Jun. 18, 2020    | Jun. 17, 2021   |
| Radiated test software            | Tonscend     | TS+ Rev<br>2.5.0.0 | HKE-082       | N/A              | N/A             |
| RF cable<br>(9KHz-1GHz)           | Times        | 381806-001         | N/A           | N/A              | N/A             |
| Hf antenna                        | Schwarzbeck  | LB-180400-KF       | HKE-031       | Jun. 18, 2020    | Jun. 17, 2021   |
| RF cable                          | Tonscend     | 1-18G              | HKE-099       | Jun. 18, 2020    | Jun. 17, 2021   |
| RF cable                          | Times        | 1-40G              | HKE-034       | Jun. 18, 2020    | Jun. 17, 2021   |
| Horn Antenna                      | Schwarzbeck  | BBHA 9170          | HKE-017       | Jun. 18, 2020    | Jun. 17, 2021   |
| Spectrum analyzer                 | R&S          | FSP40              | HKE-025       | Jun. 18, 2020    | Jun. 17, 2021   |

**Note:** The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

**4.6.3. Test Data****ANT 1**

Operation Mode: 802.11a Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 56.94         | -2.06  | 54.88          | 68.2     | -13.32 | peak          |
| 5700                                                          | 88.25         | -1.96  | 86.29          | 105.2    | -18.91 | peak          |
| 5720                                                          | 95.38         | -2.87  | 92.51          | 110.8    | -18.29 | peak          |
| 5725                                                          | 110.23        | -2.14  | 108.09         | 122.2    | -14.11 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 59.67         | -2.06  | 57.61          | 68.2     | -10.59 | peak          |
| 5700                                                          | 87.64         | -1.96  | 85.68          | 105.2    | -19.52 | peak          |
| 5720                                                          | 95.38         | -2.87  | 92.51          | 110.8    | -18.29 | peak          |
| 5725                                                          | 111.02        | -2.14  | 108.88         | 122.2    | -13.32 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 110.62        | -1.97  | 108.65         | 122.2    | -13.55 | peak          |
| 5855                                                          | 94.35         | -2.13  | 92.22          | 110.8    | -18.58 | peak          |
| 5875                                                          | 88.35         | -2.65  | 85.7           | 105.2    | -19.5  | peak          |
| 5925                                                          | 53.26         | -2.28  | 50.98          | 68.2     | -17.22 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 105.62        | -1.97  | 103.65         | 122.2    | -18.55 | peak          |
| 5855                                                          | 94.35         | -2.13  | 92.22          | 110.8    | -18.58 | peak          |
| 5875                                                          | 88.35         | -2.65  | 85.7           | 105.2    | -19.5  | peak          |
| 5925                                                          | 54.16         | -2.28  | 51.88          | 68.2     | -16.32 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11n20 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 57.62         | -2.06  | 55.56          | 68.2     | -12.64 | peak          |
| 5700                                                          | 90.65         | -1.96  | 88.69          | 105.2    | -16.51 | peak          |
| 5720                                                          | 96.34         | -2.87  | 93.47          | 110.8    | -17.33 | peak          |
| 5725                                                          | 113.62        | -2.14  | 111.48         | 122.2    | -10.72 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 58.64         | -2.06  | 56.58          | 68.2     | -11.62 | peak          |
| 5700                                                          | 96.34         | -1.96  | 94.38          | 105.2    | -10.82 | peak          |
| 5720                                                          | 96.78         | -2.87  | 93.91          | 110.8    | -16.89 | peak          |
| 5725                                                          | 112.02        | -2.14  | 109.88         | 122.2    | -12.32 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High with 5.8G  
Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 110.62        | -1.97  | 108.65         | 122.2    | -13.55 | peak          |
| 5855                                                          | 95.68         | -2.13  | 93.55          | 110.8    | -17.25 | peak          |
| 5875                                                          | 95.62         | -2.65  | 92.97          | 105.2    | -12.23 | peak          |
| 5925                                                          | 54.16         | -2.28  | 51.88          | 68.2     | -16.32 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 107.62        | -1.97  | 105.65         | 122.2    | -16.55 | peak          |
| 5855                                                          | 94.25         | -2.13  | 92.12          | 110.8    | -18.68 | peak          |
| 5875                                                          | 88.32         | -2.65  | 85.67          | 105.2    | -19.53 | peak          |
| 5925                                                          | 57.16         | -2.28  | 54.88          | 68.2     | -13.32 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11n40 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 58.64         | -2.06  | 56.58          | 68.2     | -11.62 | peak          |
| 5700                                                          | 93.15         | -1.96  | 91.19          | 105.2    | -14.01 | peak          |
| 5720                                                          | 94.35         | -2.87  | 91.48          | 110.8    | -19.32 | peak          |
| 5725                                                          | 110.44        | -2.14  | 108.3          | 122.2    | -13.9  | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 59.32         | -2.06  | 57.26          | 68.2     | -10.94 | peak          |
| 5700                                                          | 92.32         | -1.96  | 90.36          | 105.2    | -14.84 | peak          |
| 5720                                                          | 95.32         | -2.87  | 92.45          | 110.8    | -18.35 | peak          |
| 5725                                                          | 110.62        | -2.14  | 108.48         | 122.2    | -13.72 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High with 5.8G  
Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 106.25        | -1.97  | 104.28         | 122.2    | -17.92 | peak          |
| 5855                                                          | 93.69         | -2.13  | 91.56          | 110.8    | -19.24 | peak          |
| 5875                                                          | 88.47         | -2.65  | 85.82          | 105.2    | -19.38 | peak          |
| 5925                                                          | 54.13         | -2.28  | 51.85          | 68.2     | -16.35 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 107.89        | -1.97  | 105.92         | 122.2    | -16.28 | peak          |
| 5855                                                          | 93.25         | -2.13  | 91.12          | 110.8    | -19.68 | peak          |
| 5875                                                          | 88.64         | -2.65  | 85.99          | 105.2    | -19.21 | peak          |
| 5925                                                          | 54.54         | -2.28  | 52.26          | 68.2     | -15.94 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ac20 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 57.64         | -2.06  | 55.58          | 68.2     | -12.62 | peak          |
| 5700                                                          | 88.14         | -1.96  | 86.18          | 105.2    | -19.02 | peak          |
| 5720                                                          | 95.35         | -2.87  | 92.48          | 110.8    | -18.32 | peak          |
| 5725                                                          | 110.45        | -2.14  | 108.31         | 122.2    | -13.89 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 58.64         | -2.06  | 56.58          | 68.2     | -11.62 | peak          |
| 5700                                                          | 91.35         | -1.96  | 89.39          | 105.2    | -15.81 | peak          |
| 5720                                                          | 95.95         | -2.87  | 93.08          | 110.8    | -17.72 | peak          |
| 5725                                                          | 110.45        | -2.14  | 108.31         | 122.2    | -13.89 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 110.65        | -1.97  | 108.68         | 122.2    | -13.52 | peak          |
| 5855                                                          | 95.35         | -2.13  | 93.22          | 110.8    | -17.58 | peak          |
| 5875                                                          | 89.98         | -2.65  | 87.33          | 105.2    | -17.87 | peak          |
| 5925                                                          | 54.22         | -2.28  | 51.94          | 68.2     | -16.26 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 110.39        | -1.97  | 108.42         | 122.2    | -13.78 | peak          |
| 5855                                                          | 93.65         | -2.13  | 91.52          | 110.8    | -19.28 | peak          |
| 5875                                                          | 88.47         | -2.65  | 85.82          | 105.2    | -19.38 | peak          |
| 5925                                                          | 56.25         | -2.28  | 53.97          | 68.2     | -14.23 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ac40 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 58.61         | -2.06  | 56.55          | 68.2     | -11.65 | peak          |
| 5700                                                          | 88.92         | -1.96  | 86.96          | 105.2    | -18.24 | peak          |
| 5720                                                          | 94.34         | -2.87  | 91.47          | 110.8    | -19.33 | peak          |
| 5725                                                          | 110.28        | -2.14  | 108.14         | 122.2    | -14.06 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 57.62         | -2.06  | 55.56          | 68.2     | -12.64 | peak          |
| 5700                                                          | 89.65         | -1.96  | 87.69          | 105.2    | -17.51 | peak          |
| 5720                                                          | 94.15         | -2.87  | 91.28          | 110.8    | -19.52 | peak          |
| 5725                                                          | 111.28        | -2.14  | 109.14         | 122.2    | -13.06 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 113.62        | -1.97  | 111.65         | 122.2    | -10.55 | peak          |
| 5855                                                          | 94.27         | -2.13  | 92.14          | 110.8    | -18.66 | peak          |
| 5875                                                          | 88.33         | -2.65  | 85.68          | 105.2    | -19.52 | peak          |
| 5925                                                          | 56.38         | -2.28  | 54.1           | 68.2     | -14.1  | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 112.08        | -1.97  | 110.11         | 122.2    | -12.09 | peak          |
| 5855                                                          | 93.65         | -2.13  | 91.52          | 110.8    | -19.28 | peak          |
| 5875                                                          | 89.72         | -2.65  | 87.07          | 105.2    | -18.13 | peak          |
| 5925                                                          | 60.24         | -2.28  | 57.96          | 68.2     | -10.24 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ac80 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 57.29         | -2.06  | 55.23          | 68.2     | -12.97 | peak          |
| 5700                                                          | 89.98         | -1.96  | 88.02          | 105.2    | -17.18 | peak          |
| 5720                                                          | 94.36         | -2.87  | 91.49          | 110.8    | -19.31 | peak          |
| 5725                                                          | 110.26        | -2.14  | 108.12         | 122.2    | -14.08 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 57.74         | -2.06  | 55.68          | 68.2     | -12.52 | peak          |
| 5700                                                          | 90.32         | -1.96  | 88.36          | 105.2    | -16.84 | peak          |
| 5720                                                          | 94.36         | -2.87  | 91.49          | 110.8    | -19.31 | peak          |
| 5725                                                          | 111.25        | -2.14  | 109.11         | 122.2    | -13.09 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 110.69        | -1.97  | 108.72         | 122.2    | -13.48 | peak          |
| 5855                                                          | 94.15         | -2.13  | 92.02          | 110.8    | -18.78 | peak          |
| 5875                                                          | 89.87         | -2.65  | 87.22          | 105.2    | -17.98 | peak          |
| 5925                                                          | 52.25         | -2.28  | 49.97          | 68.2     | -18.23 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 110.33        | -1.97  | 108.36         | 122.2    | -13.84 | peak          |
| 5855                                                          | 94.38         | -2.13  | 92.25          | 110.8    | -18.55 | peak          |
| 5875                                                          | 89.55         | -2.65  | 86.9           | 105.2    | -18.3  | peak          |
| 5925                                                          | 56.28         | -2.28  | 54             | 68.2     | -14.2  | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ax20 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 58.64         | -2.06  | 56.58          | 68.2     | -11.62 | peak          |
| 5700                                                          | 89.32         | -1.96  | 87.36          | 105.2    | -17.84 | peak          |
| 5720                                                          | 95.16         | -2.87  | 92.29          | 110.8    | -18.51 | peak          |
| 5725                                                          | 111.25        | -2.14  | 109.11         | 122.2    | -13.09 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 58.35         | -2.06  | 56.29          | 68.2     | -11.91 | peak          |
| 5700                                                          | 91.25         | -1.96  | 89.29          | 105.2    | -15.91 | peak          |
| 5720                                                          | 95.64         | -2.87  | 92.77          | 110.8    | -18.03 | peak          |
| 5725                                                          | 110.25        | -2.14  | 108.11         | 122.2    | -14.09 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: TX CH High with 5.8G

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 109.68        | -1.97  | 107.71         | 122.2    | -14.49 | peak          |
| 5855                                                          | 95.64         | -2.13  | 93.51          | 110.8    | -17.29 | peak          |
| 5875                                                          | 89.32         | -2.65  | 86.67          | 105.2    | -18.53 | peak          |
| 5925                                                          | 55.47         | -2.28  | 53.19          | 68.2     | -15.01 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5850                                                          | 110.62        | -1.97  | 108.65         | 122.2    | -13.55 | peak          |
| 5855                                                          | 94.22         | -2.13  | 92.09          | 110.8    | -18.71 | peak          |
| 5875                                                          | 89.64         | -2.65  | 86.99          | 105.2    | -18.21 | peak          |
| 5925                                                          | 56.34         | -2.28  | 54.06          | 68.2     | -14.14 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |



Operation Mode: 802.11ax40 Mode with 5.8G TX CH Low

Horizontal

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 58.64         | -2.06  | 56.58          | 68.2     | -11.62 | peak          |
| 5700                                                          | 88.19         | -1.96  | 86.23          | 105.2    | -18.97 | peak          |
| 5720                                                          | 95.35         | -2.87  | 92.48          | 110.8    | -18.32 | peak          |
| 5725                                                          | 110.25        | -2.14  | 108.11         | 122.2    | -14.09 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |

Vertical:

| Frequency                                                     | Meter Reading | Factor | Emission Level | Limits   | Margin | Detector Type |
|---------------------------------------------------------------|---------------|--------|----------------|----------|--------|---------------|
| (MHz)                                                         | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |               |
| 5650                                                          | 57.49         | -2.06  | 55.43          | 68.2     | -12.77 | peak          |
| 5700                                                          | 89.35         | -1.96  | 87.39          | 105.2    | -17.81 | peak          |
| 5720                                                          | 94.32         | -2.87  | 91.45          | 110.8    | -19.35 | peak          |
| 5725                                                          | 110.25        | -2.14  | 108.11         | 122.2    | -14.09 | peak          |
| Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |               |