

## Global United Technology Services Co., Ltd.

Report No.: GTSL202212000076F02

## **TEST REPORT**

**Applicant:** GUANGZHOU Walkera Technology Co., Ltd

**Address of Applicant:** Taishi Industrial Park, Dongchong Town, Panyu District,

Guangzhou, China

Manufacturer/Factory: GUANGZHOU Walkera Technology Co., Ltd

Address of Taishi Industrial Park, Dongchong Town, Panyu District,

Guangzhou, China Manufacturer/Factory:

**Equipment Under Test (EUT)** 

**Product Name:** WKRC-H9 Model No.: WKRC-H9

Trade Mark: **W** walkera

FCC ID: S29WKRC-H9

FCC CFR Title 47 Part 15 Subpart E Section 15.407 Applicable standards:

December 09, 2022 Date of sample receipt:

**Date of Test:** December 12, 2022-December 14, 2022

Date of report issued: December 14, 2022

Test Result: PASS \*

#### Authorized Signature:



## **Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



## 2 Version

| Version No. | Date              | Description |
|-------------|-------------------|-------------|
| 00          | December 14, 2022 | Original    |
|             |                   |             |
|             |                   |             |
|             |                   |             |
|             |                   |             |

| Prepared By: | Jamel Uu Dat     | e: December 14, 2022         |
|--------------|------------------|------------------------------|
|              | Project Engineer |                              |
| Check By:    | Lotinson lus Dat | <b>e</b> : December 14, 2022 |

Reviewer

# GTS

Report No.: GTSL202212000076F02

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## 4 Test Summary

| Test Item                        | Section in CFR 47          | Result |
|----------------------------------|----------------------------|--------|
| Antenna requirement              | 15.203                     | Pass   |
| AC Power Line Conducted Emission | 15.207                     | Pass   |
| Conducted Peak Output Power      | 15.407(a)(3)               | Pass   |
| Channel Bandwidth                | 15.407(e)                  | Pass   |
| Power Spectral Density           | 15.407(a)(3)               | Pass   |
| Band Edge                        | 15.407(b)(4)               | Pass   |
| Spurious Emission                | 15.205/15.209/15.407(b)(4) | Pass   |
| Frequency Stability              | 15.407(g)                  | Pass   |

#### Remarks:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. Test according to ANSI C63.10:2013.

#### 4.1 Measurement Uncertainty

| Test Item                           | Frequency Range                      | Measurement Uncertainty           | Notes |
|-------------------------------------|--------------------------------------|-----------------------------------|-------|
| Radiated Emission                   | 9kHz-30MHz                           | 3.1dB                             | (1)   |
| Radiated Emission                   | 30MHz-200MHz                         | 3.8039dB                          | (1)   |
| Radiated Emission                   | 200MHz-1GHz                          | 3.9679dB                          | (1)   |
| Radiated Emission                   | 1GHz-18GHz                           | 4.29dB                            | (1)   |
| Radiated Emission                   | 18GHz-40GHz                          | 3.30dB                            | (1)   |
| AC Power Line Conducted<br>Emission | 0.15MHz ~ 30MHz                      | 3.44dB                            | (1)   |
| Note (1): The measurement unce      | ertainty is for coverage factor of k | =2 and a level of confidence of 9 | 95%.  |



## 5 General Information

## 5.1 General Description of EUT

| WKRC-H9   |
|---|
| WKRC-H9   |
| 0322Z120020                                       |
| WKRC-H8_V1.1                                      |
| 1.1.2   |
| GTSL202212000076-1                                |
| Engineer sample                                   |
| 802.11a/802.11n(HT20): 5745MHz ~ 5825MHz          |
| 802.11n(HT40): 5755MHz ~ 5795MHz                  |
| 802.11a/802.11n(HT20): 5                          |
| 802.11n(HT40): 2                                  |
| 802.11a/802.11n(HT20): 20MHz                      |
| 802.11n(HT40): 40MHz                              |
| 802.11a/802.11n(H20)/802.11n(H40)                 |
| Orthogonal Frequency Division Multiplexing (OFDM) |
| FPC Antenna                                       |
| 3dBi  |
| Input:5V 2A                                       |
| DC 7.4V, 2200mAh for Li-ion Battery               |
|   |



| Operation Frequency each of channel |           |         |           |         |           |         |           |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel                             | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 149                                 | 5745MHz   | 151     | 5755MHz   | 153     | 5765MHz   | 155     | 5775MHz   |
| 157                                 | 5785MHz   | 159     | 5795MHz   | 161     | 5805MHz   | 163     | 5815MHz   |
| 165                                 | 5825MHz   |         |           |         |           |         |           |

#### 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:

| Toot obound     | Freque           | ncy (MHz)      |  |  |  |  |
|-----------------|------------------|----------------|--|--|--|--|
| Test channel    | 802.11 a/n(HT20) | 802.11 n(HT40) |  |  |  |  |
| Lowest channel  | 5745             | 5755           |  |  |  |  |
| Middle channel  | 5785             |                |  |  |  |  |
| Highest channel | 5825             | 5795           |  |  |  |  |



#### 5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

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       | 6Mbps     |
| 802.11n(HT20) | 6.5Mbps   |
| 802.11n(HT40) | 13Mbps    |

#### 5.3 Description of Support Units

None

#### 5.4 Deviation from Standards

None.

#### 5.5 Abnormalities from Standard Conditions

None.



#### 5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC—Registration No.: 381383

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

• IC —Registration No.: 9079A

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

#### 5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone,

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

#### 5.8 Additional Instructions

| Test Software     | Test command provided by manufacturer |
|-------------------|---------------------------------------|
| Power level setup | Default                               |

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## 6 Test Instruments list

| Rad  | Radiated Emission:                  |                                |                             |                  |                        |                            |  |
|------|-------------------------------------|--------------------------------|-----------------------------|------------------|------------------------|----------------------------|--|
| Item | Test Equipment                      | Manufacturer                   | Model No.                   | Inventory<br>No. | Cal.Date<br>(mm-dd-yy) | Cal.Due date<br>(mm-dd-yy) |  |
| 1    | 3m Semi- Anechoic<br>Chamber        | ZhongYu Electron               | 9.2(L)*6.2(W)* 6.4(H)       | GTS250           | July 02, 2020          | July 01, 2025              |  |
| 2    | Control Room                        | ZhongYu Electron               | 6.2(L)*2.5(W)* 2.4(H)       | GTS251           | N/A                    | N/A                        |  |
| 3    | EMI Test Receiver                   | Rohde & Schwarz                | ESU26                       | GTS203           | April 22, 2022         | April 21, 2023             |  |
| 4    | BiConiLog Antenna                   | SCHWARZBECK<br>MESS-ELEKTRONIK | VULB9168                    | GTS640           | March 21, 2022         | March 20, 2023             |  |
| 5    | Double -ridged waveguide horn       | SCHWARZBECK<br>MESS-ELEKTRONIK | BBHA 9120 D                 | GTS208           | June 12, 2022          | June 11, 2023              |  |
| 6    | Horn Antenna                        | ETS-LINDGREN                   | 3160                        | GTS217           | June 23, 2022          | June 22, 2023              |  |
| 7    | EMI Test Software                   | AUDIX                          | E3                          | N/A              | N/A                    | N/A                        |  |
| 8    | Coaxial Cable                       | GTS                            | N/A                         | GTS213           | April 22, 2022         | April 21, 2023             |  |
| 9    | Coaxial Cable                       | GTS                            | N/A                         | GTS211           | April 22, 2022         | April 21, 2023             |  |
| 10   | Coaxial cable                       | GTS                            | N/A                         | GTS210           | April 22, 2022         | April 21, 2023             |  |
| 11   | Coaxial Cable                       | GTS                            | N/A                         | GTS212           | April 22, 2022         | April 21, 2023             |  |
| 12   | Amplifier(100kHz-3GHz)              | HP                             | 8347A                       | GTS204           | April 22, 2022         | April 21, 2023             |  |
| 13   | Amplifier (18-26GHz)                | Rohde & Schwarz                | AFS33-18002<br>650-30-8P-44 | GTS218           | June 23, 2022          | June 22, 2023              |  |
| 14   | Band filter                         | Amindeon                       | 82346                       | GTS219           | June 23, 2022          | June 22, 2023              |  |
| 15   | Power Meter                         | Anritsu                        | ML2495A                     | GTS540           | June 23, 2022          | June 22, 2023              |  |
| 16   | Power Sensor                        | Anritsu                        | MA2411B                     | GTS541           | June 23, 2022          | June 22, 2023              |  |
| 17   | Wideband Radio Communication Tester | Rohde & Schwarz                | CMW500                      | GTS575           | April 22, 2022         | April 21, 2023             |  |
| 18   | Splitter                            | Agilent                        | 11636B                      | GTS237           | June 23, 2022          | June 22, 2023              |  |
| 19   | Loop Antenna                        | ZHINAN                         | ZN30900A                    | GTS534           | Nov. 29, 2022          | Nov. 28, 2023              |  |
| 20   | Broadband Preamplifier              | SCHWARZBECK                    | BBV9718                     | GTS535           | April 22, 2022         | April 21, 2023             |  |
| 21   | Breitband<br>hornantenna            | SCHWARZBECK                    | BBHA 9170                   | GTS579           | Oct. 16, 2022          | Oct. 15, 2023              |  |
| 22   | Amplifier                           | TDK                            | PA-02-02                    | GTS574           | Oct. 16, 2022          | Oct. 15, 2023              |  |
| 23   | Amplifier                           | TDK                            | PA-02-03                    | GTS576           | Oct. 16, 2022          | Oct. 15, 2023              |  |
| 24   | PSA Series Spectrum<br>Analyzer     | Rohde & Schwarz                | FSP                         | GTS578           | June 23, 2022          | June 22, 2023              |  |
| 25   | Amplifier(1GHz-26.5GHz)             | HP                             | 8449B                       | GTS601           | April 22, 2022         | April 21, 2023             |  |



| Con  | Conducted Emission            |                             |                      |               |                        |                            |  |
|------|-------------------------------|-----------------------------|----------------------|---------------|------------------------|----------------------------|--|
| Item | Test Equipment                | Manufacturer                | Model No.            | Inventory No. | Cal.Date<br>(mm-dd-yy) | Cal.Due date<br>(mm-dd-yy) |  |
| 1    | Shielding Room                | ZhongYu Electron            | 7.3(L)x3.1(W)x2.9(H) | GTS252        | May 14, 2022           | May 13, 2025               |  |
| 2    | EMI Test Receiver             | R&S                         | ESCI 7               | GTS552        | April 24, 2022         | April 23, 2023             |  |
| 3    | Coaxial Switch                | ANRITSU CORP                | MP59B                | GTS225        | June 23, 2022          | June 22, 2023              |  |
| 4    | ENV216 2-L-V-<br>NETZNACHB.DE | ROHDE&SCHWARZ               | ENV216               | GTS226        | April 22, 2022         | April 21, 2023             |  |
| 5    | Coaxial Cable                 | GTS                         | N/A                  | GTS227        | N/A                    | N/A                        |  |
| 6    | EMI Test Software             | AUDIX                       | E3                   | N/A           | N/A                    | N/A                        |  |
| 7    | Thermo meter                  | JINCHUANG                   | GSP-8A               | GTS639        | April 28, 2022         | April 27, 2023             |  |
| 8    | Absorbing clamp               | Elektronik-<br>Feinmechanik | MDS21                | GTS229        | April 15, 2022         | April 14, 2023             |  |
| 9    | ISN                           | SCHWARZBECK                 | NTFM 8158            | GTS565        | April 22, 2022         | April 21, 2023             |  |
| 10   | High voltage probe            | SCHWARZBECK                 | TK9420               | GTS537        | April 22, 2022         | April 21, 2023             |  |

| RF C | onducted Test:                                       |              |                  |                      |                |                            |
|------|--|--------------|------------------|----------------------|----------------|----------------------------|
| Item | Test Equipment                                       | Manufacturer | Model No.        | Model No. Serial No. |                | Cal.Due date<br>(mm-dd-yy) |
| 1    | MXA Signal Analyzer                                  | Agilent      | N9020A           | GTS566               | April 22, 2022 | April 21, 2023             |
| 2    | EMI Test Receiver                                    | R&S          | ESCI 7           | GTS552               | April 22, 2022 | April 21, 2023             |
| 3    | Spectrum Analyzer                                    | Agilent      | E4440A           | GTS536               | April 22, 2022 | April 21, 2023             |
| 4    | MXG vector Signal<br>Generator                       | Agilent      | N5182A           | GTS567               | April 22, 2022 | April 21, 2023             |
| 5    | ESG Analog Signal<br>Generator                       | Agilent      | E4428C           | GTS568               | April 22, 2022 | April 21, 2023             |
| 6    | USB RF Power Sensor                                  | DARE         | RPR3006W         | GTS569               | April 22, 2022 | April 21, 2023             |
| 7    | RF Switch Box  | Shongyi      | RFSW3003328      | GTS571               | April 22, 2022 | April 21, 2023             |
| 8    | Programmable Constant<br>Temp & Humi Test<br>Chamber | WEWON        | WHTH-150L-40-880 | GTS572               | April 22, 2022 | April 21, 2023             |

| Ger  | General used equipment:         |              |           |                  |                        |                            |  |  |  |  |  |  |
|------|---------------------------------|--------------|-----------|------------------|------------------------|----------------------------|--|--|--|--|--|--|
| Item | Test Equipment                  | Manufacturer | Model No. | Inventory<br>No. | Cal.Date<br>(mm-dd-yy) | Cal.Due date<br>(mm-dd-yy) |  |  |  |  |  |  |
| 1    | Humidity/ Temperature Indicator | KTJ          | TA328     | GTS243           | April 25, 2022         | April 24, 2023             |  |  |  |  |  |  |
| 2    | Barometer                       | KUMAO        | SF132     | GTS647           | July 26, 2022          | July 25, 2023              |  |  |  |  |  |  |



### 7 Test results and Measurement Data

#### 7.1 Antenna requirement

| Standard requirement: | FCC Part15 C Section 15.203 |
|-----------------------|-----------------------------|
|                       |                             |

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### E.U.T Antenna:

The antennas are FPC antenna, reference to the appendix II for details



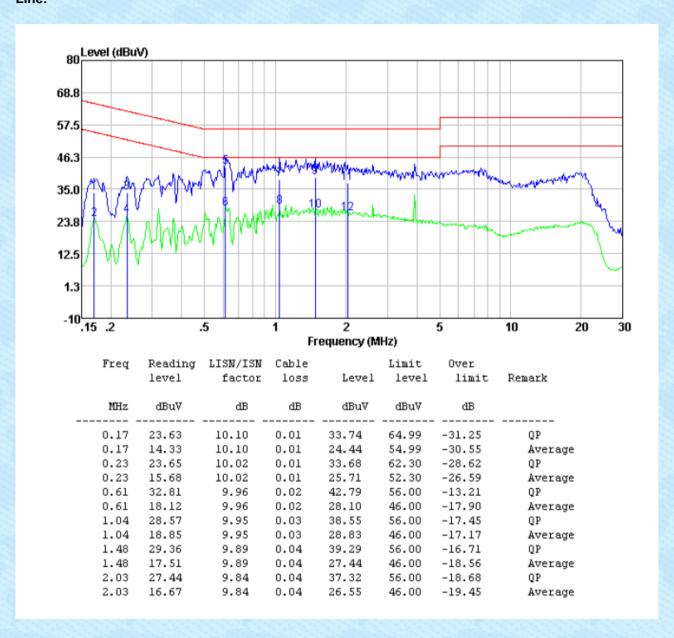
## 7.2 Conducted Emissions

| Test Requirement:     | FCC Part15 C Section 15.207   |                |            |            |  |  |  |  |  |  |
|-----------------------|---|----------------|------------|------------|--|--|--|--|--|--|
| Test Method:          | ANSI C63.10:2013  |                |            |            |  |  |  |  |  |  |
| Test Frequency Range: | 150KHz to 30MHz   |                |            |            |  |  |  |  |  |  |
| Class / Severity:     | Class B   | Class B        |            |            |  |  |  |  |  |  |
| Receiver setup:       | RBW=9KHz, VBW=30KHz, S  | weep time=auto |            |            |  |  |  |  |  |  |
| Limit:                | Frequency range (MHz)   |                | (dBuV)     |            |  |  |  |  |  |  |
|                       |   | Quasi-peak     | Average    |            |  |  |  |  |  |  |
|                       | 0.15-0.5  | 66 to 56*      | 56 to 46*  |            |  |  |  |  |  |  |
|                       | 0.5-5<br>5-30   | 56<br>60       | 46         |            |  |  |  |  |  |  |
|                       | * Decreases with the logarithr  |                | 50         |            |  |  |  |  |  |  |
| Test setup:           | Reference Plane   |                |            | T. AND THE |  |  |  |  |  |  |
| Test procedure:       | AUX Equipment E.U.T EMI Receiver  Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m   |                |            |            |  |  |  |  |  |  |
| rest procedure.       | <ol> <li>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.</li> <li>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).</li> <li>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.</li> </ol> |                |            |            |  |  |  |  |  |  |
| Test Instruments:     | Refer to section 6.0 for details  | 3              |            |            |  |  |  |  |  |  |
| Test mode:            | Refer to section 5.2 for details  | S              |            |            |  |  |  |  |  |  |
| Test environment:     | Temp.: 25 °C Hur  | nid.: 52%      | Press.: 10 | 12mbar     |  |  |  |  |  |  |
| Test voltage:         | AC 120V, 60Hz   |                |            |            |  |  |  |  |  |  |
| Test results:         | Pass  |                |            |            |  |  |  |  |  |  |
| Tool roodito.         | 1 400   |                |            |            |  |  |  |  |  |  |

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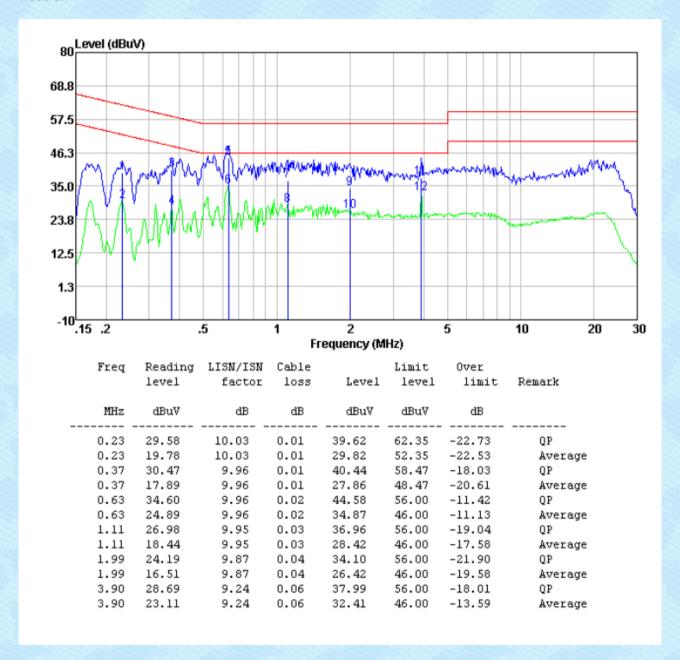


#### Measurement data Line:





#### Neutral:

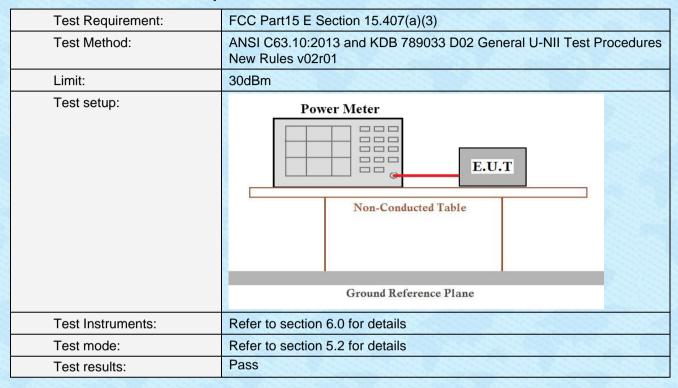


#### Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level = Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both *limits and measurement with the average detector receiver is unnecessary.*



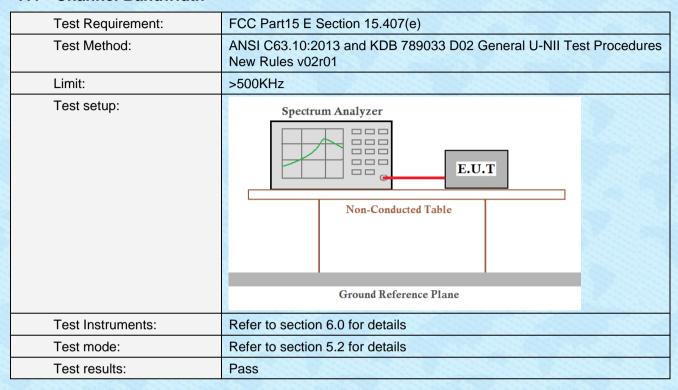
## 7.3 Conducted Peak Output Power



Measurement Data: The detailed test data see Appendix for WIFI 5.8G.



#### 7.4 Channel Bandwidth



Measurement Data: The detailed test data see Appendix for WIFI 5.8G.



## 7.5 Power Spectral Density

| Test Requirement: | FCC Part15 E Section 15.407(a)(3)  |  |  |  |  |  |  |
|-------------------|--|--|--|--|--|--|--|
| Test Method:      | ANSI C63.10:2013 and KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 |  |  |  |  |  |  |
| Limit:            | 30dBm/500kHz   |  |  |  |  |  |  |
| Test setup:       | Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane              |  |  |  |  |  |  |
| Test Instruments: | Refer to section 6.0 for details   |  |  |  |  |  |  |
| Test mode:        | Refer to section 5.2 for details   |  |  |  |  |  |  |
| Test results:     | Pass   |  |  |  |  |  |  |

Measurement Data: The detailed test data see Appendix for WIFI 5.8G.



## 7.6 Band edge

## 7.6.1 Radiated Emission Method

|                       | tilou   |  |  |  |  |  |  |  |  |  |
|-----------------------|---|--|--|--|--|--|--|--|--|--|
| Test Requirement:     | FCC Part15 C Section 15.209 and 15.205  |  |  |  |  |  |  |  |  |  |
| Test Method:          | ANSI C63.10: 2013   |  |  |  |  |  |  |  |  |  |
| Test Frequency Range: |   | 9kHz to 40GHz, only worse case is reported   |  |  |  |  |  |  |  |  |
| Test site:            | Measurement D   | istance: 3m  |  |  |  |  |  |  |  |  |
| Receiver setup:       | Frequency   | Detector   | RBW  | VBW  | Value  |  |  |  |  |  |
|                       | Above 1GHz  | Peak   | 1MHz   | 3MHz   | Peak   |  |  |  |  |  |
|                       | Above 1G112   | RMS  | 1MHz   | 3MHz   | RMS  |  |  |  |  |  |
| Limit:                | 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. |  |  |  |  |  |  |  |  |  |
| Test setup:           | Tum Table < 150cm > .   | < 3m >   | Test Antenna- < lm 4m >-  ecciver-  Pres   | mplifier   |  |  |  |  |  |  |
| Test Procedure:       | the ground a determine th  2. The EUT wa antenna, whi tower.  3. The antenna ground to de horizontal an measuremer  4. For each sus and then the and the rota the maximum  5. The test-rece Specified Ba  6. If the emission the limit specified base of the EUT whave 10dB meak or aversheet.  | t a 3 meter came position of the set 3 meters a che was mounted the maximum that the maximu | ber. The take highest race way from the don the top from one notimum value zations of the notion, the EUT ned to heigh from 0 decay as set to Peake aximum Hole UT in peaken gould be done of the could be done of the coul | ole was rotadiation. The interference of a variable of the field of the field one antennatives arrange of the field of the | r meters above the d strength. Both are set to make the ed to its worst case meter to 4 meters 0 degrees to find unction and 10dB lower than and the peak values sions that did not using peak, quasi- |  |  |  |  |  |

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|                   | And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. |
|-------------------|---|
| Test Instruments: | Refer to section 6.0 for details  |
| Test mode:        | Refer to section 5.2 for details  |
| Test results:     | Pass  |

#### Remarks:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
- 4. According to KDB 789033 D02v02r01 section G) 1) d),for measurements above 1000 MHz @3m distance, the limit of field strength is computed as follows:

E[dBuV/m] = EIRP[dBm] + 95.2;

E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.

E[dBuV/m] = 10 + 95.2 = 105.2dBuV/m.

E[dBuV/m] = 15.6 + 95.2 = 110.8dBuV/m.

E[dBuV/m] = 27 + 95.2 = 122.2dBuV/m



#### Measurement data:

|                    | IEEE 802.11a            |                             |                       |                          |                   |                        |                       |              |  |  |  |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|--|--|--|
| Peak value:        |                         |                             |                       |                          |                   |                        |                       |              |  |  |  |
| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Polarization |  |  |  |
| 5650               | 34.69                   | 32.36                       | 9.72                  | 23.83                    | 52.94             | 68.20                  | -15.26                | Horizontal   |  |  |  |
| 5700               | 32.58                   | 32.5                        | 9.79                  | 23.84                    | 51.03             | 105.20                 | -54.17                | Horizontal   |  |  |  |
| 5720               | 28.72                   | 32.53                       | 9.81                  | 23.85                    | 47.21             | 110.80                 | -63.59                | Horizontal   |  |  |  |
| 5725               | 32.29                   | 32.53                       | 9.83                  | 23.86                    | 50.79             | 122.20                 | -71.41                | Horizontal   |  |  |  |
| 5850               | 33.69                   | 32.7                        | 9.99                  | 23.87                    | 52.51             | 122.20                 | -69.69                | Horizontal   |  |  |  |
| 5855               | 30.06                   | 32.72                       | 9.99                  | 23.88                    | 48.89             | 110.80                 | -61.91                | Horizontal   |  |  |  |
| 5875               | 32.77                   | 32.74                       | 10.04                 | 23.89                    | 51.66             | 105.20                 | -53.54                | Horizontal   |  |  |  |
| 5925               | 30.43                   | 32.8                        | 10.11                 | 23.9                     | 49.44             | 68.20                  | -18.76                | Horizontal   |  |  |  |
| 5650               | 30.93                   | 32.36                       | 9.72                  | 23.83                    | 49.18             | 68.20                  | -19.02                | Vertical     |  |  |  |
| 5700               | 27.60                   | 32.5                        | 9.79                  | 23.84                    | 46.05             | 105.20                 | -59.15                | Vertical     |  |  |  |
| 5720               | 31.10                   | 32.53                       | 9.81                  | 23.85                    | 49.59             | 110.80                 | -61.21                | Vertical     |  |  |  |
| 5725               | 32.10                   | 32.53                       | 9.83                  | 23.86                    | 50.60             | 122.20                 | -71.60                | Vertical     |  |  |  |
| 5850               | 28.61                   | 32.7                        | 9.99                  | 23.87                    | 47.43             | 122.20                 | -74.77                | Vertical     |  |  |  |
| 5855               | 33.45                   | 32.72                       | 9.99                  | 23.88                    | 52.28             | 110.80                 | -58.52                | Vertical     |  |  |  |
| 5875               | 29.53                   | 32.74                       | 10.04                 | 23.89                    | 48.42             | 105.20                 | -56.78                | Vertical     |  |  |  |
| 5925               | 31.10                   | 32.8                        | 10.11                 | 23.9                     | 50.11             | 68.20                  | -18.09                | Vertical     |  |  |  |



|                    | IEEE 002 44n UT20       |                             |                       |                          |                   |                        |                       |              |  |  |  |  |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|--|--|--|--|
|                    | IEEE 802.11n HT20       |                             |                       |                          |                   |                        |                       |              |  |  |  |  |
| Peak value         | Peak value:             |                             |                       |                          |                   |                        |                       |              |  |  |  |  |
| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Polarization |  |  |  |  |
| 5650               | 28.78                   | 32.36                       | 9.72                  | 23.83                    | 47.03             | 68.20                  | -21.17                | Horizontal   |  |  |  |  |
| 5700               | 27.73                   | 32.5                        | 9.79                  | 23.84                    | 46.18             | 105.20                 | -59.02                | Horizontal   |  |  |  |  |
| 5720               | 29.12                   | 32.53                       | 9.81                  | 23.85                    | 47.61             | 110.80                 | -63.19                | Horizontal   |  |  |  |  |
| 5725               | 29.87                   | 32.53                       | 9.83                  | 23.86                    | 48.37             | 122.20                 | -73.83                | Horizontal   |  |  |  |  |
| 5850               | 34.18                   | 32.7                        | 9.99                  | 23.87                    | 53.00             | 122.20                 | -69.20                | Horizontal   |  |  |  |  |
| 5855               | 30.32                   | 32.72                       | 9.99                  | 23.88                    | 49.15             | 110.80                 | -61.65                | Horizontal   |  |  |  |  |
| 5875               | 33.64                   | 32.74                       | 10.04                 | 23.89                    | 52.53             | 105.20                 | -52.67                | Horizontal   |  |  |  |  |
| 5925               | 33.48                   | 32.8                        | 10.11                 | 23.9                     | 52.49             | 68.20                  | -15.71                | Horizontal   |  |  |  |  |
| 5650               | 33.28                   | 32.36                       | 9.72                  | 23.83                    | 51.53             | 68.20                  | -16.67                | Vertical     |  |  |  |  |
| 5700               | 32.59                   | 32.5                        | 9.79                  | 23.84                    | 51.04             | 105.20                 | -54.16                | Vertical     |  |  |  |  |
| 5720               | 32.98                   | 32.53                       | 9.81                  | 23.85                    | 51.47             | 110.80                 | -59.33                | Vertical     |  |  |  |  |
| 5725               | 30.72                   | 32.53                       | 9.83                  | 23.86                    | 49.22             | 122.20                 | -72.98                | Vertical     |  |  |  |  |
| 5850               | 32.47                   | 32.7                        | 9.99                  | 23.87                    | 51.29             | 122.20                 | -70.91                | Vertical     |  |  |  |  |
| 5855               | 33.65                   | 32.72                       | 9.99                  | 23.88                    | 52.48             | 110.80                 | -58.32                | Vertical     |  |  |  |  |
| 5875               | 28.47                   | 32.74                       | 10.04                 | 23.89                    | 47.36             | 105.20                 | -57.84                | Vertical     |  |  |  |  |
| 5925               | 34.59                   | 32.8                        | 10.11                 | 23.9                     | 53.60             | 68.20                  | -14.60                | Vertical     |  |  |  |  |



| IEEE 802.11n HT40  |                         |                             |                       |                          |                   |                        |                       |              |  |  |  |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|--|--|--|
| Peak value:        |                         |                             |                       |                          |                   |                        |                       |              |  |  |  |
| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor<br>(dB) | Level<br>(dBuV/m) | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Polarization |  |  |  |
| 5650               | 31.81                   | 32.36                       | 9.72                  | 23.83                    | 50.06             | 68.20                  | -18.14                | Horizontal   |  |  |  |
| 5700               | 30.94                   | 32.5                        | 9.79                  | 23.84                    | 49.39             | 105.20                 | -55.81                | Horizontal   |  |  |  |
| 5720               | 31.50                   | 32.53                       | 9.81                  | 23.85                    | 49.99             | 110.80                 | -60.81                | Horizontal   |  |  |  |
| 5725               | 32.26                   | 32.53                       | 9.83                  | 23.86                    | 50.76             | 122.20                 | -71.44                | Horizontal   |  |  |  |
| 5850               | 28.68                   | 32.7                        | 9.99                  | 23.87                    | 47.50             | 122.20                 | -74.70                | Horizontal   |  |  |  |
| 5855               | 33.70                   | 32.72                       | 9.99                  | 23.88                    | 52.53             | 110.80                 | -58.27                | Horizontal   |  |  |  |
| 5875               | 30.10                   | 32.74                       | 10.04                 | 23.89                    | 48.99             | 105.20                 | -56.21                | Horizontal   |  |  |  |
| 5925               | 31.31                   | 32.8                        | 10.11                 | 23.9                     | 50.32             | 68.20                  | -17.88                | Horizontal   |  |  |  |
| 5650               | 33.67                   | 32.36                       | 9.72                  | 23.83                    | 51.92             | 68.20                  | -16.28                | Vertical     |  |  |  |
| 5700               | 30.11                   | 32.5                        | 9.79                  | 23.84                    | 48.56             | 105.20                 | -56.64                | Vertical     |  |  |  |
| 5720               | 29.80                   | 32.53                       | 9.81                  | 23.85                    | 48.29             | 110.80                 | -62.51                | Vertical     |  |  |  |
| 5725               | 30.92                   | 32.53                       | 9.83                  | 23.86                    | 49.42             | 122.20                 | -72.78                | Vertical     |  |  |  |
| 5850               | 34.31                   | 32.7                        | 9.99                  | 23.87                    | 53.13             | 122.20                 | -69.07                | Vertical     |  |  |  |
| 5855               | 29.80                   | 32.72                       | 9.99                  | 23.88                    | 48.63             | 110.80                 | -62.17                | Vertical     |  |  |  |
| 5875               | 29.99                   | 32.74                       | 10.04                 | 23.89                    | 48.88             | 105.20                 | -56.32                | Vertical     |  |  |  |
| 5925               | 33.69                   | 32.8                        | 10.11                 | 23.9                     | 52.70             | 68.20                  | -15.50                | Vertical     |  |  |  |

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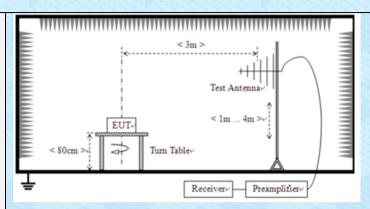


## 7.7 Spurious Emission

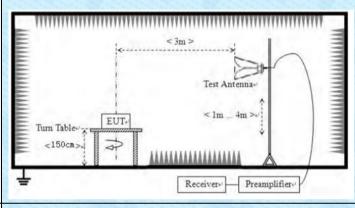
## 7.7.1 Radiated Emission Method

| Test Requirement:     | FCC Part15 C Section 15.209, Part 15E Section 15.407(b)(4) |        |             |              |              |                         |  |  |  |
|-----------------------|--|--------|-------------|--------------|--------------|-------------------------|--|--|--|
| Test Method:          | ANSI C63.10:2013   |        |             |              |              |                         |  |  |  |
| Test Frequency Range: | 9kHz to 40GHz  |        |             |              |              |                         |  |  |  |
| Test site:            | Measurement Distance: 3m                                   |        |             |              |              |                         |  |  |  |
| Receiver setup:       | Frequency  | Dete   | ector       | RBW          | VBW          | Value                   |  |  |  |
|                       | 9kHz-150KHz  |        | i-peak      | 200Hz        | 1kHz         | Quasi-peak Value        |  |  |  |
|                       | 150kHz-30MHz   |        | i-peak      | 9kHz         | 30kHz        | Quasi-peak Value        |  |  |  |
|                       | 30MHz-1GHz   |        | i-peak      | 120KHz       | 300KHz       |                         |  |  |  |
|                       | Above 1GHz   |        | eak<br>V    | 1MHz<br>1MHz | 3MHz<br>3MHz | Peak Value              |  |  |  |
| I insta               |  | A      | V           | TIVITZ       | SIVITZ       | Average Value           |  |  |  |
| Limit:                | Frequency  |        | Limit       | (uV/m)       | Value        | Measurement<br>Distance |  |  |  |
|                       | 0.009MHz-0.490   | MHz    | 2400/       | /F(KHz)      | QP           | 300m                    |  |  |  |
|                       | 0.490MHz-1.705   | MHz    | 24000       | )/F(KHz)     | QP           | 300m                    |  |  |  |
|                       | 1.705MHz-30M   | 1Hz    |             | 30           | QP           | 30m                     |  |  |  |
|                       | 30MHz-88MH   | łz     | 1           | 100          | QP           |                         |  |  |  |
|                       | 88MHz-216MI  | Hz     | 1           | 150          | QP           | 3m                      |  |  |  |
|                       | 216MHz-960M  | lHz    | 2           | 200          | QP           | Jili                    |  |  |  |
|                       | 960MHz-1GH   | Ηz     | 5           | 500          | QP           |                         |  |  |  |
|                       |  |        |             |              |              |                         |  |  |  |
|                       | Frequency Limit (dBm/MHz)                                  |        | Remark      |              |              |                         |  |  |  |
|                       | Above 1GHz   | Z      |             | -27.0        |              | Peak Value              |  |  |  |
| Test setup:           | For radiated emi   | ssions | from 9      | kHz to 30    | MHz          |                         |  |  |  |
|                       | **********   | ****** | *********** | *********    | *****        |                         |  |  |  |
|                       | E  |        |             |              |              |                         |  |  |  |
|                       |  |        | < 3m >      | , J          |              |                         |  |  |  |
|                       | E  |        |             | ^            |              |                         |  |  |  |
|                       |  | i      | Te          | est Antenna  |              |                         |  |  |  |
|                       | EUT-   |        |             |              |              |                         |  |  |  |
|                       | < 80cm > Turn Table Im                                     |        |             |              |              |                         |  |  |  |
|                       | Ţ,   | -      |             | Receiver     |              |                         |  |  |  |
|                       |  |        |             |              |              |                         |  |  |  |
|                       | For radiated emissions from 30MHz to1GHz                   |        |             |              |              |                         |  |  |  |

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#### For radiated emissions above 1GHz



#### Test Procedure:

- The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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
- 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.
- 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.
- 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- 7. The radiation measurements are performed in X, Y, Z axis positioning.



|                   | And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. |                                  |         |     |         |          |  |  |  |
|-------------------|---|----------------------------------|---------|-----|---------|----------|--|--|--|
| Test Instruments: | Refer to section 6.0 for details  |                                  |         |     |         |          |  |  |  |
| Test mode:        | Refer to se   | Refer to section 5.2 for details |         |     |         |          |  |  |  |
| Test environment: | Temp.:  | 25 °C                            | Humid.: | 52% | Press.: | 1012mbar |  |  |  |
| Test voltage:     | AC 120V, 60Hz   |                                  |         |     |         |          |  |  |  |
| Test results:     | Pass  |                                  |         |     |         |          |  |  |  |

#### Remarks:

1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

#### **Measurement Data:**

#### 9 kHz ~ 30 MHz

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

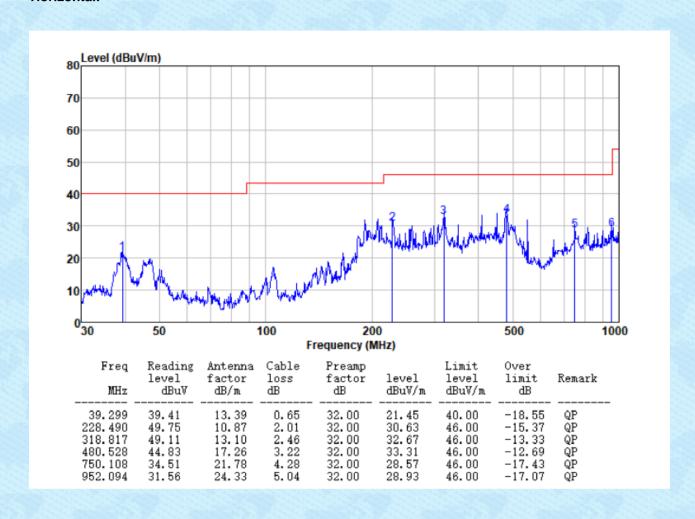
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#### **Below 1GHz**

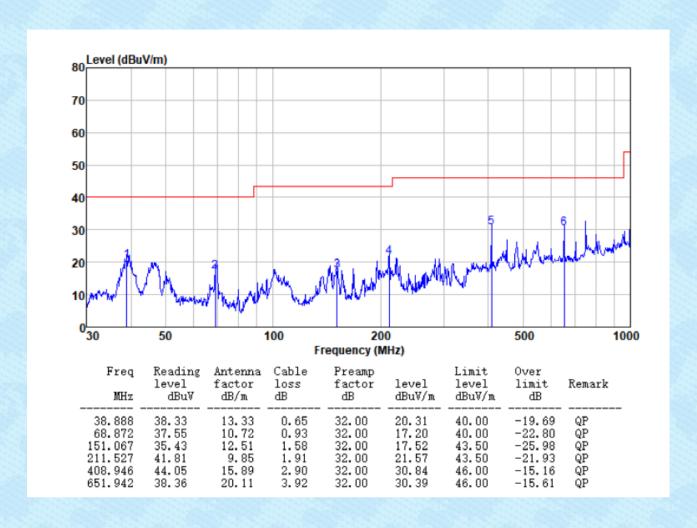
Pre-scan all test modes, found worst case at 802.11n(HT20), and so only show the test result of it **Horizontal:** 



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#### Vertical:





#### **Above 1GHz:**

| Above IGH          |                         |                             |                       |                       |                         |                        |                       |              |
|--------------------|-------------------------|-----------------------------|-----------------------|-----------------------|-------------------------|------------------------|-----------------------|--------------|
| 802.11a            |                         |                             |                       |                       | Test Frequency: 5745MHz |                        |                       |              |
| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor (dB) | Level<br>(dBuV/m)       | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Polarization |
| 11490              | 28.77                   | 39.40                       | 8.73                  | 36.30                 | 40.60                   | 68.20                  | -27.60                | Horizontal   |
| 17235              | 29.27                   | 41.00                       | 11.37                 | 36.28                 | 45.36                   | 68.20                  | -22.84                | Horizontal   |
| 11490              | 30.13                   | 39.40                       | 8.73                  | 36.30                 | 41.96                   | 68.20                  | -26.24                | Vertical     |
| 17235              | 28.90                   | 41.00                       | 11.37                 | 36.28                 | 44.99                   | 68.20                  | -23.21                | Vertical     |
| 802.11a            |                         |                             |                       |                       | Test Frequency: 5785MHz |                        |                       |              |
| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor (dB) | Level<br>(dBuV/m)       | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Polarization |
| 11570              | 27.60                   | 39.28                       | 8.77                  | 36.29                 | 39.36                   | 68.20                  | -28.84                | Horizontal   |
| 17355              | 31.21                   | 41.52                       | 11.48                 | 36.26                 | 47.95                   | 68.20                  | -20.25                | Horizontal   |
| 11570              | 31.96                   | 39.28                       | 8.77                  | 36.29                 | 43.72                   | 68.20                  | -24.48                | Vertical     |
| 17355              | 26.28                   | 41.52                       | 11.48                 | 36.26                 | 43.02                   | 68.20                  | -25.18                | Vertical     |
|                    |                         | 802.11a                     |                       |                       | Test Frequency: 5825MHz |                        |                       |              |
| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor (dB) | Level<br>(dBuV/m)       | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Polarization |
| 11650              | 31.24                   | 39.16                       | 8.79                  | 36.27                 | 42.67                   | 68.20                  | -25.53                | Horizontal   |
| 17475              | 27.03                   | 42.30                       | 11.58                 | 36.25                 | 44.20                   | 68.20                  | -24                   | Horizontal   |
| 11650              | 30.09                   | 39.16                       | 8.79                  | 36.27                 | 41.46                   | 68.20                  | -26.74                | Vertical     |
| 17475              | 26.64                   | 42.30                       | 11.58                 | 36.25                 | 44.04                   | 68.20                  | -24.16                | Vertical     |
|                    | 80                      | 2.11n(HT20                  | 0)                    |                       | Test Frequency: 5745MHz |                        |                       |              |
| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor (dB) | Level<br>(dBuV/m)       | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Polarization |
| 11490              | 32.97                   | 39.40                       | 8.73                  | 36.30                 | 44.32                   | 68.20                  | -23.88                | Horizontal   |
| 17235              | 30.03                   | 41.00                       | 11.37                 | 36.28                 | 45.82                   | 68.20                  | -22.38                | Horizontal   |
| 11490              | 27.60                   | 39.40                       | 8.73                  | 36.30                 | 39.21                   | 68.20                  | -28.99                | Vertical     |
| 17235              | 31.30                   | 41.00                       | 11.37                 | 36.28                 | 46.99                   | 68.20                  | -21.21                | Vertical     |
|                    | 80                      | 2.11n(HT20                  | 0)                    |                       | Test Frequency: 5785MHz |                        |                       |              |
| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor (dB) | Level<br>(dBuV/m)       | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Polarization |
| 11570              | 32.83                   | 39.28                       | 8.77                  | 36.29                 | 45.33                   | 68.20                  | -22.87                | Horizontal   |
| 17355              | 30.24                   | 41.52                       | 11.48                 | 36.26                 | 46.78                   | 68.20                  | -21.42                | Horizontal   |
| 11570              | 32.81                   | 39.28                       | 8.77                  | 36.29                 | 45.13                   | 68.20                  | -23.07                | Vertical     |
| 17355              | 26.29                   | 41.52                       | 11.48                 | 36.26                 | 42.74                   | 68.20                  | -25.46                | Vertical     |
| 802.11n(HT20)      |                         |                             |                       |                       | Test Frequency: 5825MHz |                        |                       |              |
| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor (dB) | Level<br>(dBuV/m)       | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Polarization |
| 11650              | 33.09                   | 39.16                       | 8.79                  | 36.27                 | 44.56                   | 68.20                  | -23.64                | Horizontal   |

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|---------------|-----------|------------|
|---------------|-----------|------------|

| 17475              | 30.69                   | 42.30                       | 11.58                 | 36.25                 | 47.94                   | 68.20                  | -20.26                | Horizontal   |
|--------------------|-------------------------|-----------------------------|-----------------------|-----------------------|-------------------------|------------------------|-----------------------|--------------|
| 11650              | 30.57                   | 39.16                       | 8.79                  | 36.27                 | 41.99                   | 68.20                  | -26.21                | Vertical     |
| 17475              | 30.06                   | 42.30                       | 11.58                 | 36.25                 | 47.50                   | 68.20                  | -20.7                 | Vertical     |
| 802.11n(HT40)      |                         |                             |                       |                       | Test Frequency: 5755MHz |                        |                       |              |
| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor (dB) | Level<br>(dBuV/m)       | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Polarization |
| 11510              | 28.91                   | 39.40                       | 8.74                  | 36.30                 | 39.93                   | 68.20                  | -28.27                | Horizontal   |
| 17265              | 28.26                   | 41.26                       | 11.40                 | 36.27                 | 44.13                   | 68.20                  | -24.07                | Horizontal   |
| 11510              | 31.40                   | 39.40                       | 8.74                  | 36.30                 | 42.87                   | 68.20                  | -25.33                | Vertical     |
| 17265              | 26.28                   | 41.26                       | 11.40                 | 36.27                 | 41.98                   | 68.20                  | -26.22                | Vertical     |
|                    | 80                      | )2.11n(HT40                 | ))                    |                       | Test Frequency: 5795MHz |                        |                       |              |
| Frequency<br>(MHz) | Read<br>Level<br>(dBuV) | Antenna<br>Factor<br>(dB/m) | Cable<br>Loss<br>(dB) | Preamp<br>Factor (dB) | Level<br>(dBuV/m)       | Limit Line<br>(dBuV/m) | Over<br>Limit<br>(dB) | Polarization |
| 11590              | 31.33                   | 39.22                       | 8.77                  | 36.28                 | 42.59                   | 68.20                  | -25.61                | Horizontal   |
| 17385              | 28.03                   | 41.78                       | 11.51                 | 36.26                 | 44.72                   | 68.20                  | -23.48                | Horizontal   |
| 11590              | 31.03                   | 39.22                       | 8.77                  | 36.28                 | 41.98                   | 68.20                  | -26.22                | Vertical     |
| 17385              | 29.63                   | 41.78                       | 11.51                 | 36.26                 | 46.16                   | 68.20                  | -22.04                | Vertical     |

#### Notes:

- 1. Measure Level = Reading Level + Factor.
- 2. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.
- 3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.



## 7.8 Frequency stability

| Test Requirement: | FCC Part15 C Section 15.407(g)   |  |  |  |  |  |
|-------------------|--|--|--|--|--|--|
| Test Method:      | ANSI C63.10:2013, FCC Part 2.1055  |  |  |  |  |  |
| Limit:            | Manufactures of U-NII devices are responsible for ensuring freque stability such that an emission is maintained within the band of ope under all conditions of normal operation as specified |  |  |  |  |  |
| Test Procedure:   | The EUT was setup to ANSI C63.4, 2003; tested to 2.1055 for compliance to FCC Part 15.407(g) requirements.   |  |  |  |  |  |
| Test setup:       | Spectrum analyzer  Att.  Note: Measurement setup for testing on A  | Temperature Chamber  EUT  Variable Power Supply  Antenna connector |  |  |  |  |
| Test Instruments: | Refer to section 5.10 for details  |  |  |  |  |  |
| Test mode:        | Refer to section 5.2 for details   |  |  |  |  |  |
| Test results:     | Pass   |  |  |  |  |  |

Measurement data: The detailed test data see Appendix for WIFI 5.8G.



## 8 Test Setup Photo

Reference to the appendix I for details.

## 9 EUT Constructional Details

Reference to the appendix II for details.

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