

FCC TEST REPORT

Test report On Behalf of Shenzhen Aixin Precision Electronic Technology Co., Ltd. For Projectors Model No.: Q2, T01, T02, T03, T04, T05, T06, T07, T08, Q3, Q4, Q5, Q6, Q7, Q8, M1, M2, M3, M4, M5, M6, M7, M8, X3, X4, X5, X6, X7, X8

FCC ID: 2A3AE-Q2

Prepared For : Shenzhen Aixin Precision Electronic Technology Co., Ltd. 401 room, Second factory, No.280-2 Dabutou, Songyuasha Community, Guanhu street, Longhua district, Shenzhen, China

Prepared By : Shenzhen HUAK 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:
 Feb. 16, 2022 ~Mar. 03, 2022

 Date of Report:
 Mar. 03, 2022

 Report Number:
 HK2202210543-E

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 HUAK, this document cannont 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



н.

TEST RESULT CERTIFICATION

| Applicant's name | Shenzhen Aixin Precision Electronic Technology Co., Ltd. | | |
|--------------------------------|--|--|--|
| Address | 401 room, Second factory, No.280-2 Dabutou, Songyuasha Community, Guanhu street, Longhua district, Shenzhen, China | | |
| Manufacture's Name | Shenzhen Aixin Precision Electronic Technology Co., Ltd. | | |
| Address | 401 room, Second factory, No.280-2 Dabutou, Songyuasha Community, Guanhu street, Longhua district, Shenzhen, China | | |
| Product description | | | |
| Trade Mark: | N/A | | |
| Product name: | Projectors | | |
| Model and/or type reference .: | Q2, T01, T02, T03, T04, T05, T06, T07, T08, Q3, Q4, Q5, Q6, Q7, Q8, M1, M2, M3, M4, M5, M6, M7, M8, X3, X4, X5, X6, X7, X8 | | |
| Standards | FCC Rules and Regulations Part 15 Subpart C Section 15.247 | | |
| Statiualus | ANSI C63.10: 2013 | | |

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen HUAK Testing Technology Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen HUAK 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 | Feb. 16, 2022 ~Mar. 03, 2022 |
| Date of Issue | Mar. 03, 2022 |
| Test Result | Pass |

Testing Engineer

Aar

(Gary Qian)

Technical Manager

(Eden Hu)

Authorized Signatory:

Mou

(Jason Zhou)

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com



NG

IK Per

TABLE OF CONTENTS

| 1. | TEST RESULT SUMMARY | 5 |
|----|--|----|
| | 1.1. TEST PROCEDURES AND RESULTS | |
| | 1.2. INFORMATION OF THE TEST LABORATORY | 5 |
| | 1.3. MEASUREMENT UNCERTAINTY | 6 |
| 2. | EUT DESCRIPTION | |
| | 2.1. GENERAL DESCRIPTION OF EUT | 7 |
| | 2.2. CARRIER FREQUENCY OF CHANNELS | 8 |
| | 2.3. OPERATION OF EUT DURING TESTING | |
| | 2.4. DESCRIPTION OF TEST SETUP | |
| 3. | ENERA INFORMATION | 10 |
| | 3.1. TEST ENVIRONMENT AND MODE | 10 |
| | 3.2. DESCRIPTION OF SUPPORT UNITS | |
| 4. | TEST RESULTS AND MEASUREMENT DATA | 12 |
| | ⁶ 4.1. CONDUCTED EMISSION | 12 |
| | 4.2. TEST RESULT | |
| | 4.3. MAXIMUM CONDUCTED OUTPUT POWER | 16 |
| | 4.4. EMISSION BANDWIDTH | |
| | 4.5. POWER SPECTRAL DENSITY | |
| | 4.6. CONDUCTED BAND EDGE AND SPURIOUS EMISSION MEASUREMENT | |
| | 4.7. RADIATED SPURIOUS EMISSION MEASUREMENT | 41 |
| | 4.8. ANTENNA REQUIREMENT | 67 |
| 5. | PHOTOGRAPH OF TEST | 68 |
| 6. | PHOTOS OF THE EUT | |

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 HUAK, this document cannont 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.



T 691

** Modified History **

| Revision | Description | Issued Data | Remark |
|--------------|-----------------------------|---------------|------------|
| Revision 1.0 | Initial Test Report Release | Mar. 03, 2022 | Jason Zhou |
| | | | |
| TING | TING | TING | G TING |

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 HUAK, this document cannont 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.



1. TEST RESULT SUMMARY

1.1. TEST PROCEDURES AND RESULTS

| Requirement | CFR 47 Section | Result |
|-------------------------------------|-----------------------|--------|
| Antenna requirement | §15.203/§15.247(b)(4) | PASS |
| AC Power Line Conducted Emission | §15.207 | PASS |
| Conducted Peak Output Power | §15.247(b)(3) | PASS |
| 6dB Emission Bandwidth | §15.247(a)(2) | PASS |
| Power Spectral Density | §15.247(e) | PASS |
| Band Edge | §15.247(d) | PASS |
| Spurious Emission | §15.205/§15.209 | 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. INFORMATION OF THE TEST LABORATORY

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

Testing Laboratory Authorization :

A2LA Accreditation Code is 4781.01. FCC Designation Number is CN1229. Canada IC CAB identifier is CN0045. CNAS Registration Number is L9589.

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 HUAK, this document cannont 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



FICATION

1.3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended 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 | ±2.71dB |
| 2 | RF power, conducted | ±0.37dB |
| 3 | Spurious emissions, conducted | ±0.11dB |
| 4 | All emissions, radiated(<1G) | ±3.90dB |
| 5.00 | All emissions, radiated(>1G) | ±4.28dB |
| 6 | Temperature | ±0.1°C |
| 7 | Humidity | ±1.0% |

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 HUAK, this document cannont 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



2. EUT DESCRIPTION

HUAK TESTING

<u>a</u>14

2.1. GENERAL DESCRIPTION OF EUT

| Equipment: | Projectors | AK TESTING |
|----------------------|---|-----------------------|
| Model Name: | Q2 | 0 |
| Series Model: | T01, T02, T03, T04, T05, T06, T07, T06 Q8, M1, M2, M3, M4, M5, M6, M7, M8, | |
| Model Difference: | All model's the function, software and same, only with a product color, appen named different. Test sample model: | earance and model |
| FCC ID: | 2A3AE-Q2 | |
| Antenna Type: | Internal Antenna | TESTING |
| Antenna Gain: | 2dBi | HUAT |
| Operation frequency: | 802.11b/g/n 20:2412~2462 MHz 802.11n 40: 2422~2452MHz | TING |
| Number of Channels: | 802.11b/g/n20: 11CH 802.11n 40: 7CH | O HUNK |
| Modulation Type: | CCK/OFDM/DBPSK/DAPSK | |
| Power Source: | 15V DC, 3A from adapter with AC100 |)-240V, 50/60Hz, 1.5A |
| Power Rating: | 15V DC, 3A from adapter with AC100 |)-240V, 50/60Hz, 1.5A |

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 HUAK, this document cannont 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.

Page 8 of 70



2.2. Carrier Frequency of Channels

| | Cha | annel List | For 802.11k | o/802.11g/8 | 02.11n (HT2 | 0) | |
|---------|--------------------|------------|--------------------|-------------|--------------------|---------|--------------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 01 👝 | 2412 | 04 | 2427 | 07 | 2442 | 10 | 2457 |
| 02 | 2417 | 05 | 2432 | 08 | 2447 | 11 | 2462 |
| 03 | 2422 | 06 | 2437 | 09 | 2452 | -STING | |

| Channel List For 802.11n (HT40) | | | | | | | |
|---------------------------------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| ESTING | KTESTING C | 04 | 2427 | 07 | 2442 | TESTIN | KTE |
| @ H | | 05 | 2432 | 08 | 2447 | HUAN | CO-HOM |
| 03 | 2422 | 06 | 2437 | 09 | 2452 | e | |

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

Operating Mode

The mode is used: Transmitting mode for 802.11b/802.11g/802.11n (HT20) Low Channel: 2412MHz Middle Channel: 2437MHz

High Channel: 2462MHz

The mode is used: Transmitting mode for 802.11n (HT40)

Low Channel: 2422MHz Middle Channel: 2437MHz High Channel: 2452MHz

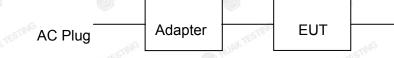
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com



Laptop

2.4. DESCRIPTION OF TEST SETUP

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



Operation of EUT during radiation above 1GHz testing:

| | | | | TEST |
|---------|---------|----------|-----|------|
| AC Plug | Adapter | (C) HUAN | EUT | |
| | | | | |

Adapter information Model: J481-1503000U Input: 100-240V, 50-60Hz, 1.5A Output: 15V, 3A

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

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.

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 HUAK, this document cannont 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



3. ENERA INFORMATION

3.1. TEST ENVIRONMENT AND MODE

| Operating Environment: | | | | |
|------------------------|-----------|--------------|---------|--|
| Temperature: | 25.0 °C | HUAKTESIN | HUAKTES | |
| Humidity: | 56 % RH | [©] | | |
| Atmospheric Pressure: | 1010 mbar | AK TESTING | | |

Test Mode:

Engineering mode:

Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%)

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. For the full battery state and The output power to the maximum state.

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.

| STING | Mode | Data rate |
|-------|--------------|-----------|
| | 802.11b | 1Mbps |
| | 802.11g | 6Mbps |
| | 802.11n(H20) | 6.5Mbps |
| | 802.11n(H40) | 13.5Mbps |

Final Test Mode:

Operation mode:

Keep the EUT in continuous transmitting with modulation

1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

2.According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20), 13.5Mbps for 802.11(H40). Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.

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 HUAK, this document cannont 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

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com

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 |
|-----------|----------------|------------|---------------|------------|
| 1 | NG / HUAKTESTR | is I | I HUAK TESTIN | 3 |

Note:

HUAK TESTING

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, 6dB 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.

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



CATION

4. TEST RESULTS AND MEASUREMENT DATA

4.1. CONDUCTED EMISSION

Test Specification

| | TING | TING | TING | | | | | |
|-------------------|---|---|---|--|--|--|--|--|
| Test Requirement: | FCC Part15 C Sect | ion 15.207 | AKTE | HUAKTES | | | | |
| Test Method: | ANSI C63.10:2013 | | | | | | | |
| Frequency Range: | 150 kHz to 30 MHz | 150 kHz to 30 MHz | | | | | | |
| Receiver setup: | RBW=9 kHz, VBW=30 kHz, Sweep time=auto | | | | | | | |
| Limits: | Frequency range (MHz) 0.15-0.5 0.5-5 5-30 | Limit (0 Quasi-peak 66 to 56* 56 60 | dBuV) Average 56 to 46* 46 50 | A TESTIN | | | | |
| Test Setup: | | C power | er AC power | AUAKTES | | | | |
| | Test table/Insulatio | st lization Network | tion | AK TESTIN | | | | |
| Test Mode: | Charging + transmit | GING | CTALG | - 25 | | | | |
| | 1. The E.U.T is con line impedance provides a 50oh | stabilization net | work (L.I.S.N | .). This | | | | |
| Test Procedure: | measuring equips 2. The peripheral depower through a coupling impedating refer to the blo photographs). 3. Both sides of A conducted interferemission, the relating the interface calls | evices are also control LISN that province with 500hm ck diagram of C. line are chose erence. In order ative positions of ples must be ch | ides a 50ohr termination. (the test setu ecked for ma to find the ma equipment ar hanged accor | n/50ul (Please up and aximun aximun nd all o ding to | | | | |

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Test Instruments

| Conducted Emission Shielding Room Test Site (843) | | | | | | |
|---|--------------|--------------------|---------------|---------------------|--------------------|--|
| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due | |
| Receiver | R&S | ESCI 7 | HKE-010 | Dec. 09, 2021 | Dec. 08, 2022 | |
| LISN | R&S | ENV216 | HKE-002 | Dec. 09, 2021 | Dec. 08, 2022 | |
| Coax cable (9KHz-30MHz) | Times | 381806-002 | N/A | Dec. 09, 2021 | Dec. 08, 2022 | |
| Conducted test software | Tonscend | TS+ Rev 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).

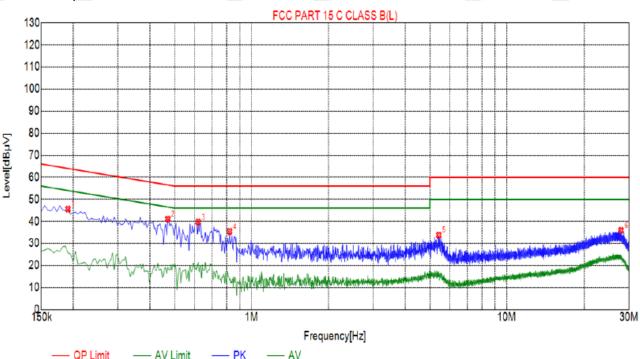
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



o Q

Page 14 of 70

4.2. TEST RESULT Test Specification: Line



| 2P Limit | - AV Limit | — PK |
|------------|-------------|------|
| P Detector | AV Detector | |

| Suspected List | | | | | | | | | |
|----------------|----------------|-----------------|----------------|-----------------|----------------|-------------------|----------|------|--|
| NO. | Freq. [MHz] | Level [dBµV] | Factor [dB] | Limit [dBµV] | Margin [dB] | Reading [dBµV] | Detector | Туре | |
| 1 | 0.1905 | 45.58 | 20.04 | 64.01 | 18.43 | 25.54 | PK | L | |
| 2 | 0.4695 | 41.08 | 20.04 | 56.52 | 15.44 | 21.04 | PK | L | |
| 3 | 0.6180 | 39.76 | 20.05 | 56.00 | 16.24 | 19.71 | PK | L | |
| 4 | 0.8205 | 35.49 | 20.06 | 56.00 | 20.51 | 15.43 | PK | L | |
| 5 | 5.4195 | 33.82 | 20.26 | 60.00 | 26.18 | 13.56 | PK | L | |
| 6 | 27.8925 | 35.95 | 20.26 | 60.00 | 24.05 | 15.69 | PK | L | |

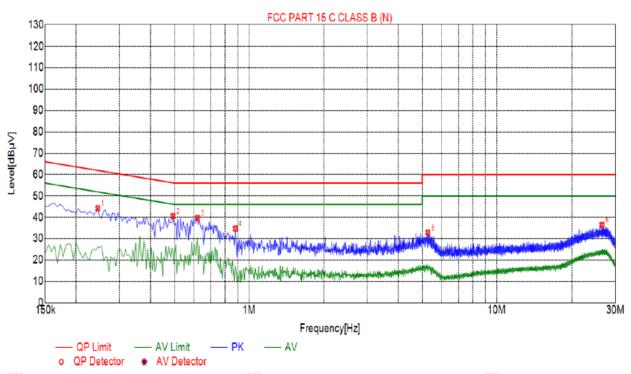
Remark: Margin = Limit – Level Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Test Specification: Neutral



| Suspected List |
|----------------|
|----------------|

| U u | | | | | | | | | |
|------------|----------------|-----------------|----------------|-----------------|----------------|-------------------|----------|------|--|
| NO. | Freq. [MHz] | Level [dBµV] | Factor [dB] | Limit [dBµV] | Margin [dB] | Reading [dBµV] | Detector | Туре | |
| 1 | 0.2445 | 44.25 | 20.03 | 61.94 | 17.69 | 24.22 | РК | Ν | |
| 2 | 0.4920 | 40.50 | 20.04 | 56.13 | 15.63 | 20.46 | PK | N | |
| 3 | 0.6180 | 39.71 | 20.05 | 56.00 | 16.29 | 19.66 | PK | N | |
| 4 | 0.8790 | 34.71 | 20.06 | 56.00 | 21.29 | 14.65 | PK | N | |
| 5 | 5.2710 | 32.88 | 20.26 | 60.00 | 27.12 | 12.62 | PK | N | |
| 6 | 26.4300 | 36.42 | 20.26 | 60.00 | 23.58 | 16.16 | PK | N | |

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

HUAK TESTING

4.3. MAXIMUM CONDUCTED OUTPUT POWER

Test Specification

| Test Requirement: | FCC Part15 C Section 1 | FCC Part15 C Section 15.247 (b)(3) | | | | | |
|-------------------|--|---|---|--|--|--|--|
| Test Method: | KDB 558074 | O HUM | O HUM | | | | |
| Limit: | 30dBm | OKTESTING | alG | | | | |
| Test Setup: | Power meter | EUT | HUAKTESTUS | | | | |
| Test Mode: | Transmitting mode with r | nodulation | | | | | |
| Test Procedure: | The testing follows the FCC KDB 558074 DO v05r02. The RF output of EUT meter by RF cable an compensated to the r Set to the maximum p EUT transmit continuit Measure the Peak out in the test report. | 1 15.247 Meas G was connected to d attenuator. The esults for each m ower setting and o ously. | buidance the power path loss was easurement. enable the | | | | |
| Test Result: | PASS | O HOM | O Har | | | | |

Test Instruments

| M HD. | HD. | HU. | HU. | HU. | HU. | |
|------------------------------|--------------|----------|---------------|---------------------|--------------------|--|
| RF Test Room | | | | | | |
| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due | |
| Spectrum analyzer | Agilent | N9020A | HKE-048 | Dec. 09, 2021 | Dec. 08, 2022 | |
| Power meter | Agilent | E4419B | HKE-085 | Dec. 09, 2021 | Dec. 08, 2022 | |
| Power Sensor | Agilent | E9300A | HKE-086 | Dec. 09, 2021 | Dec. 08, 2022 | |
| RF cable | Times | 1-40G | HKE-034 | Dec. 09, 2021 | Dec. 08, 2022 | |
| RF automatic control unit | Tonscend | JS0806-2 | HKE-060 | Dec. 09, 2021 | Dec. 08, 2022 | |

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

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 HUAK, this document cannont 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

HUAK Testing Lab TEL: +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail: service@cer-mark.com



Test Data

| (ESTIME | W TESTING | N TESTIN | K TESTING |
|---------|-----------|-------------------------------------|-----------|
| | HUPP | TX 802.11b Mode | HUAN |
| Test | Frequency | Maximum Peak Conducted Output Power | LIMIT |
| Channel | (MHz) | (dBm) | dBm |
| CH01 | 2412 | 16.75 | 30 |
| CH06 | 2437 | 17.15 | 30 |
| CH11 | 2462 | 18.14 | 30 |
| | | TX 802.11g Mode | |
| CH01 | 2412 | 17.14 | 30 |
| CH06 | 2437 | 16.21 | 30 |
| CH11 | 2462 | 17.92 | 30 |
| | TESTING | TX 802.11n20 Mode | TESTING |
| CH01 | 2412 | 15.40 | 30 |
| CH06 | 2437 | 15.24 | 30 |
| CH11 | 2462 | 15.83 | 30 |
| | 0 | TX 802.11n40 Mode | 0 |
| CH03 | 2422 | 15.71 | 30 |
| CH06 | 2437 | 15.92 | 30 |
| CH09 | 2452 | 15.39 | 30 |

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com



CATION

4.4. EMISSION BANDWIDTH

Test Specification

| Test Requirement: | FCC Part15 C Section 15 | FCC Part15 C Section 15.247 (a)(2) | | | | | |
|-------------------|--|---|----------------|--|--|--|--|
| Test Method: | KDB 558074 | O HUL | O HUL | | | | |
| Limit: | >500kHz | OK TESTING | ang | | | | |
| Test Setup: | Spectrum Analyzer | EUT | MG HUAKTESTING | | | | |
| Test Mode: | Transmitting mode with n | Transmitting mode with modulation | | | | | |
| Test Procedure: | 15.247 Meas Guidand Set to the maximum por EUT transmit continue Make the measurement resolution bandwidth Video bandwidth (VB) an accurate measure be greater than 500 k | The testing follows FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. Set to the maximum power setting and enable the EUT transmit continuously. 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. Measure and record the results in the test report. | | | | | |
| Test Result: | PASS | O HUM | O How | | | | |

Test Instruments

| RF Test Room | | | | | | | |
|------------------------------|--------------|----------|---------------|---------------------|--------------------|--|--|
| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due | | |
| Spectrum analyzer | Agilent | N9020A | HKE-048 | Dec. 09, 2021 | Dec. 08, 2022 | | |
| RF cable | Times | 1-40G | HKE-034 | Dec. 09, 2021 | Dec. 08, 2022 | | |
| RF automatic control unit | Tonscend | JS0806-2 | HKE-060 | Dec. 09, 2021 | Dec. 08, 2022 | | |

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

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Test data

| Test channel | 6dB Emission Bandwidth (MHz) | | | | |
|--------------|------------------------------|---------------------|--------------|-----------------|--|
| | 802.11b | 802.11g | 802.11n(H20) | 802.11n(H40) | |
| Lowest | 9.08 | 16.36 | 17.56 | 35.68 | |
| Middle | 9.04 | 15.12 | 17.60 | 35.76 | |
| Highest | 8.64 | 16.40 | 17.60 | 36.32 | |
| Limit: | A HUAK TES | > | >500k | | |
| Test Result: | | TESTING HUAK TESTIN | PASS | THU HUNK TESTIN | |

Test plots as follows:

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 HUAK, this document cannont 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.



802.11b Modulation

Lowest channel



Middle channel



Highest channel



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 HUAK, this document cannont 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.



Page 21 of 70

Report No.:HK2202210543-E

NG

IК °PB

802.11g Modulation

Lowest channel



Middle channel



Highest channel



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 HUAK, this document cannont 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.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com



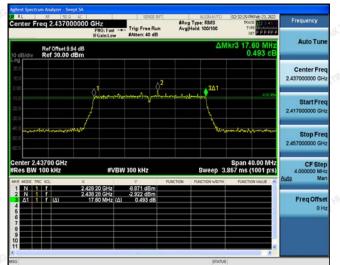
Report No.:HK2202210543-E

802.11n (HT20) Modulation

Lowest channel



Middle channel



Highest channel

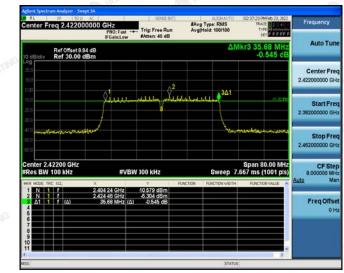


The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

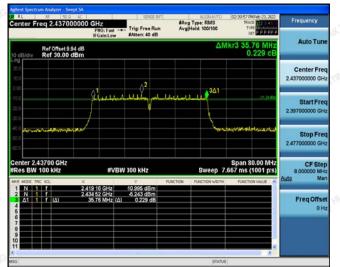


802.11n (HT40) Modulation

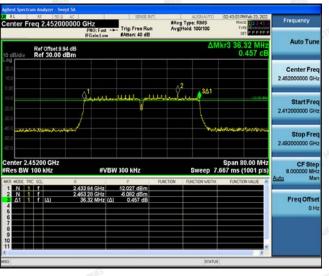
Lowest channel



Middle channel



Highest channel



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 HUAK, this document cannont 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.



CATION

4.5. POWER SPECTRAL DENSITY

Test Specification

| Test Requirement: | FCC Part15 C Section 15.247 (e) | | | | |
|-------------------|--|--|--|--|--|
| Test Method: | KDB 558074 | | | | |
| Limit: | The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission. | | | | |
| Test Setup: | Spectrum Analyzer | | | | |
| Test Mode: | Transmitting mode with modulation | | | | |
| Test Procedure: | Transmitting mode with modulation 1. The testing follows Measurement procedure 10.2 method PKPSD of FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW. 5. Detector = Peak, Sweep time = auto couple. 6. Employ trace averaging (Peak) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. 7. Measure and record the results in the test report. | | | | |
| Test Result: | 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 HUAK, this document cannont 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.



Test Instruments

| RF Test Room | | | | | |
|------------------------------|--------------|----------------------------|---------------|---------------------|--------------------|
| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| Spectrum analyzer | Agilent | N9020A | HKE-048 | Dec. 09, 2021 | Dec. 08, 2022 |
| RF Cable (9KHz-26.5GHz) | Tonscend | 170660 | N/A | Dec. 09, 2021 | Dec. 08, 2022 |
| RF automatic control unit | Tonscend | JS0806-2 | HKE-060 | Dec. 09, 2021 | Dec. 08, 2022 |
| RF test software | Tonscend | JS1120-B Version 2.6 | HKE-083 | 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).

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 HUAK, this document cannont 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.



HS ⊢F

Test data

| EUT Set Mode | Channel | Result (dBm/30kHz) | Result (dBm/3kHz) |
|------------------------|----------------|-------------------------|-------------------|
| | Lowest | 1.08 | -8.92 |
| 802.11b | Middle | 1.82 | -8.18 |
| | Highest | 0.67 | -9.33 |
| | Lowest | -5.79 | -15.79 |
| 802.11g | Middle | -4.16 | -14.16 |
| | Highest | -5.73 | -15.73 |
| | Lowest | -7.55 | -17.55 |
| 802.11n(H20) | Middle | -8.11 | -18.11 |
| | Highest | -6.9 | -16.9 |
| | Lowest | -10.98 | -20.98 |
| 802.11n(H40) | Middle | -10.47 | -20.47 |
| | Highest | -11.51 | -21.51 |
| PSD test result (dBm/3 | kHz)= PSD test | t result (dBm/30kHz)-10 | |
| Limit: 8dBm/3kHz | | | |
| Test Result: | MUAK TED | PASS | |

Test plots as follows:

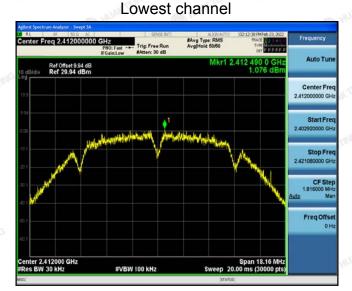
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



NG

¦К

802.11b Modulation



Middle channel



Highest channel

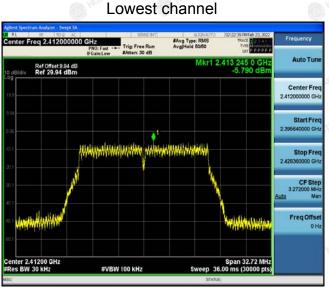


The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

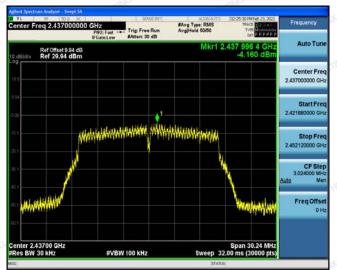
HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



802.11g Modulation



Middle channel



Highest channel

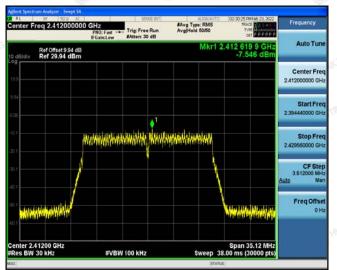
 Algent & Spectrum Advers
 1900 AC
 1900 A

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 HUAK, this document cannont 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.

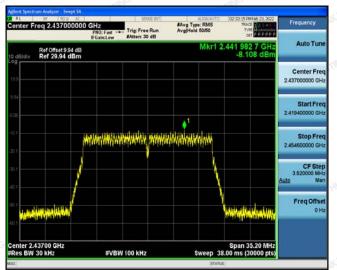


802.11n (HT20) Modulation

Lowest channel



Middle channel



Highest channel

 Ref offset 934 dB
 Center Freq 2.462000000 GHz
 Frequency

 Ref offset 934 dB
 Mkr1 2.464 d90 GHz
 Auto Tune

 Blobbil
 Ref offset 934 dB
 -6.898 dBm
 -6.898 dBm

 Conter Freq 2.46200000 GHz
 -6.898 dBm
 -6.898 dBm
 -6.898 dBm

 Conter Freq 2.46200000 GHz
 -6.898 dBm
 -6.898 dBm
 -6.898 dBm

 Conter Freq 2.46200000 GHz
 -6.898 dBm
 -6.898 dBm
 -6.898 dBm

 Conter Freq 2.4620000 GHz
 -6.898 dBm
 -6.898 dBm
 -6.898 dBm

 Conter Freq 2.462000 GHz
 -6.898 dBm
 -6.898 dBm
 -6.898 dBm

 Conter Freq 2.462000 GHz
 -6.898 dBm
 -6.898 dBm
 -6.898 dBm

 Conter Freq 2.4640000 GHz
 -6.898 dBm
 -6.898 dBm
 -6.898 dBm

 Conter Freq 2.4640000 GHz
 -6.898 dBm
 -6.898 dBm
 -6.898 dBm

 Conter Freq 2.4640000 GHz
 -6.898 dBm
 -6.898 dBm
 -6.898 dBm

 Conter Freq 3.500 Mit
 -6.898 dBm
 -6.898 dBm
 -6.898 dBm

 Conter Freq 3.500 Mit
 -6.898 dBm
 -6.898 dBm
 -6.898 dBm

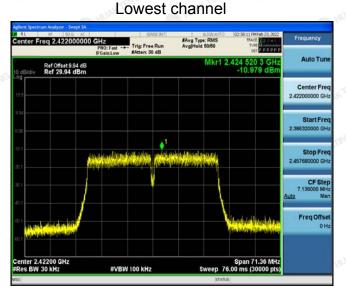
 Conter Freq 3.500 Mit
 -6.898

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 HUAK, this document cannont 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.

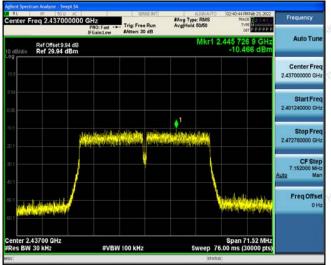


FICATION

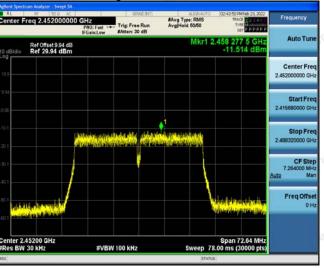
802.11n (HT40) Modulation



Middle channel



Highest channel



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 HUAK, this document cannont 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.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com



4.6. CONDUCTED BAND EDGE AND SPURIOUS EMISSION MEASUREMENT

Test Specification

| Test Requirement: | FCC Part15 C Section 15.247 (d) | | | |
|-------------------|---|--|--|--|
| Test Method: | KDB558074 | | | |
| Limit: | In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). | | | |
| Test Setup: | Spectrum Analyzer | | | |
| Test Mode: | Transmitting mode with modulation | | | |
| Test Procedure: | Transmitting mode with modulation 1. The testing follows FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 5. Measure and record the results in the test report. 6. The RF fundamental frequency should be excluded | | | |
| | against the limit line in the operating frequency band. | | | |

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com



FIF

| | | Attas HO | Alterna Y | ALL HO | States, March 199 | |
|----------------------------|--------------|----------------------------|---------------|---------------------|--------------------|--|
| RF Test Room | | | | | | |
| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due | |
| Spectrum analyzer | Agilent | N9020A | HKE-048 | Dec. 09, 2021 | Dec. 08, 2022 | |
| High pass filter unit | Tonscend | JS0806-F | HKE-055 | Dec. 09, 2021 | Dec. 08, 2022 | |
| RF Cable (9KHz-26.5GHz) | Tonscend | 170660 | M/A | Dec. 09, 2021 | Dec. 08, 2022 | |
| RF automatic control unit | Tonscend | JS0806-2 | HKE-060 | Dec. 09, 2021 | Dec. 08, 2022 | |
| RF test software | Tonscend | JS1120-B Version 2.6 | HKE-083 | N/A | N/A | |

Test Instruments

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

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 HUAK, this document cannont 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.



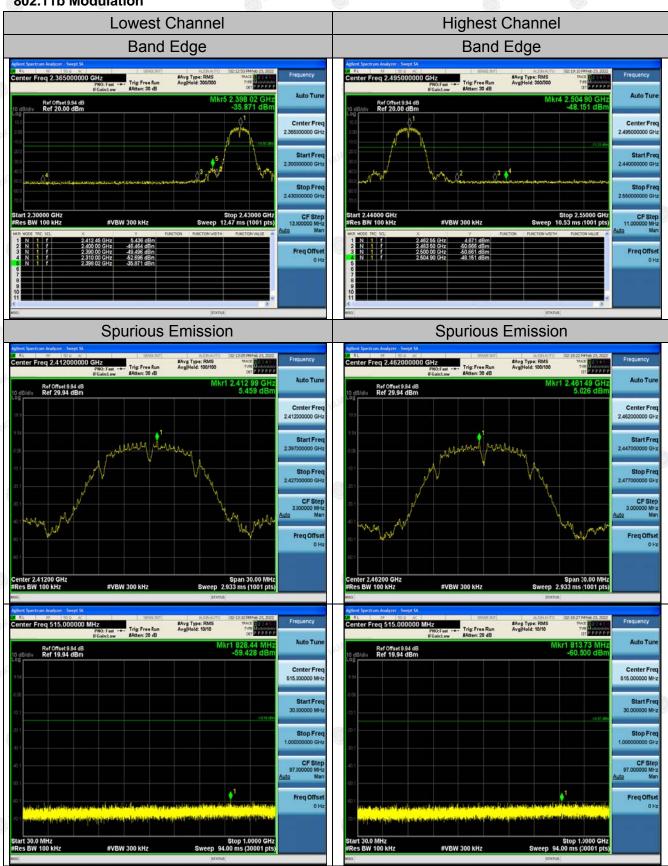
Page 33 of 70

NG

IК °PR

Test Data





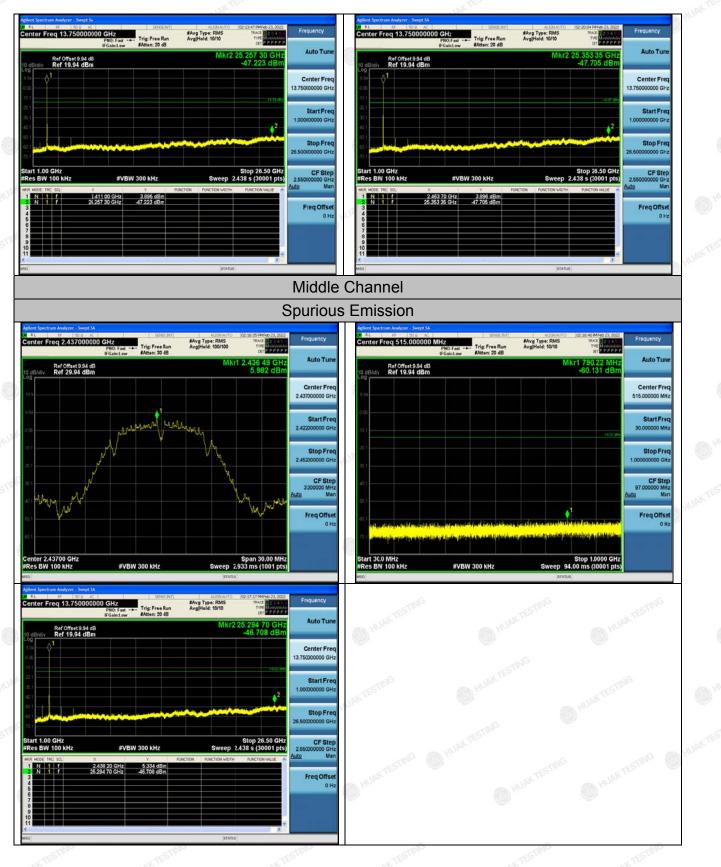
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Page 34 of 70

Report No.:HK2202210543-E

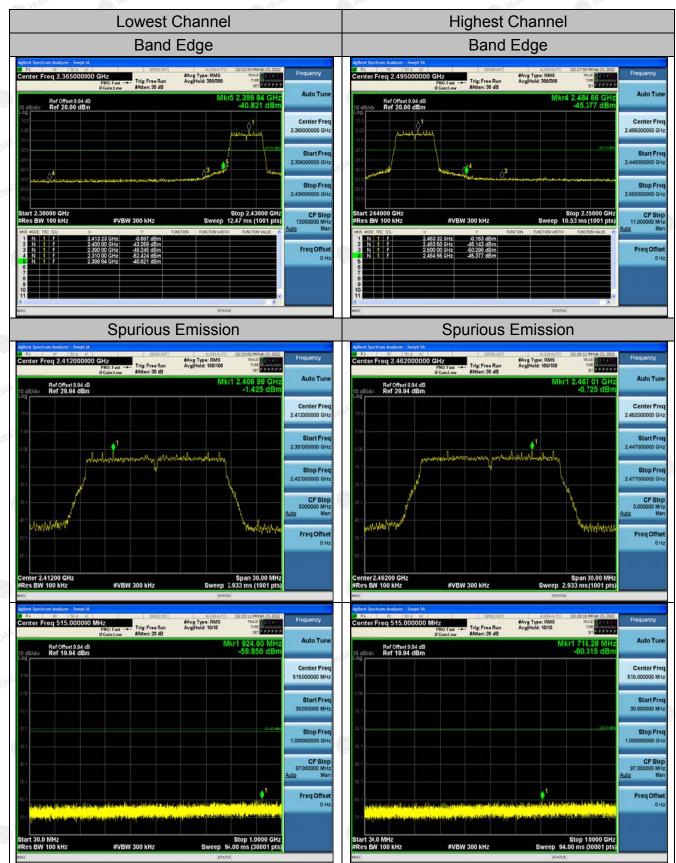


The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

HUAK Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com



802.11g Modulation



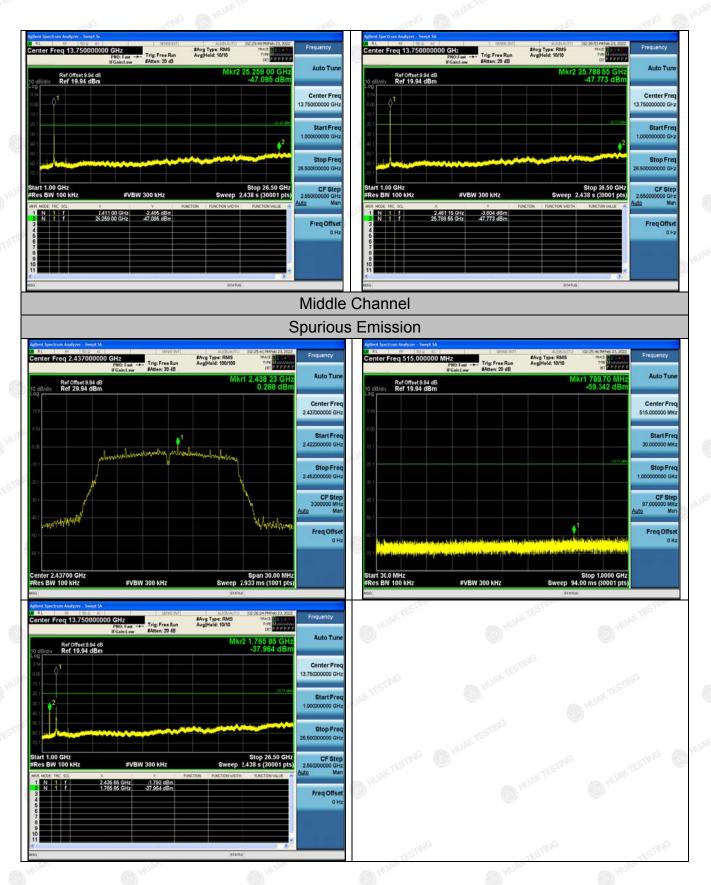
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Page 36 of 70

FICATION



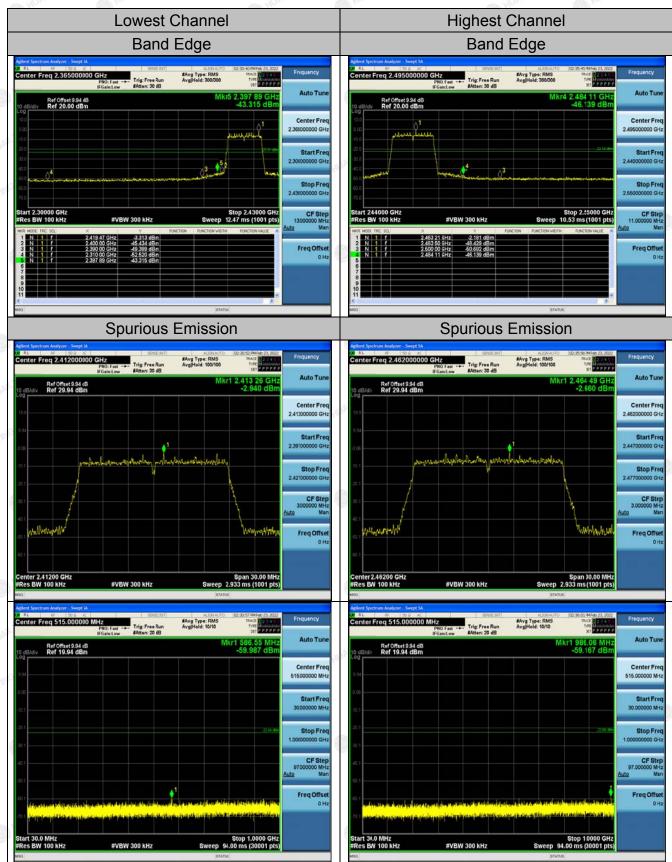
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

HUAK Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com



Page 37 of 70

802.11n (HT20) Modulation



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 HUAK, this document cannont 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.

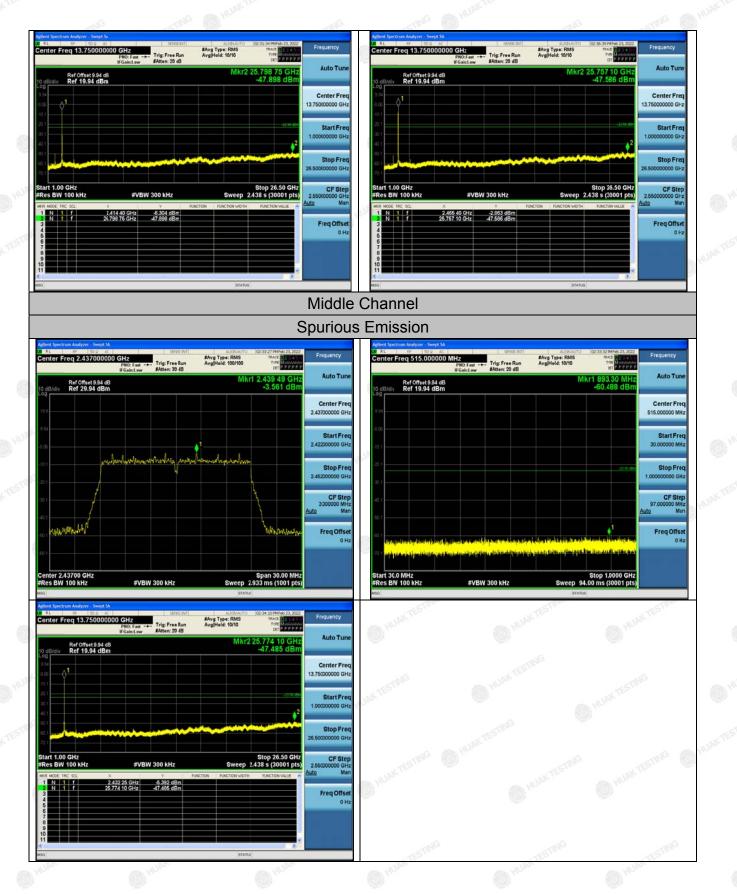
HUAK Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com



Page 38 of 70

Report No.:HK2202210543-E

EST ⊢ FiF



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 HUAK, this document cannont 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.

HUAK Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

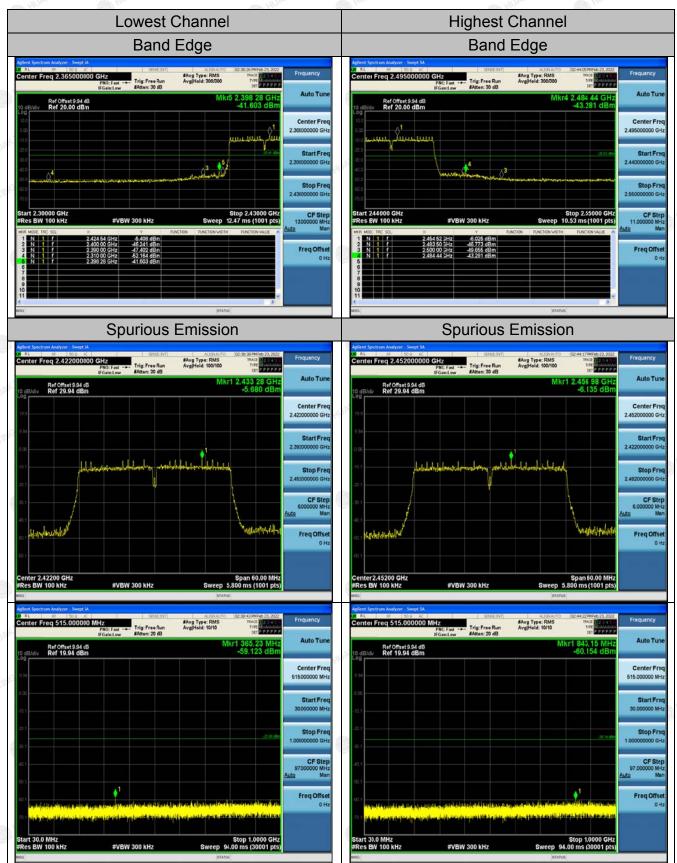


Page 39 of 70

NG

IК °PB

802.11n (HT40) Modulation



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 HUAK, this document cannont 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.

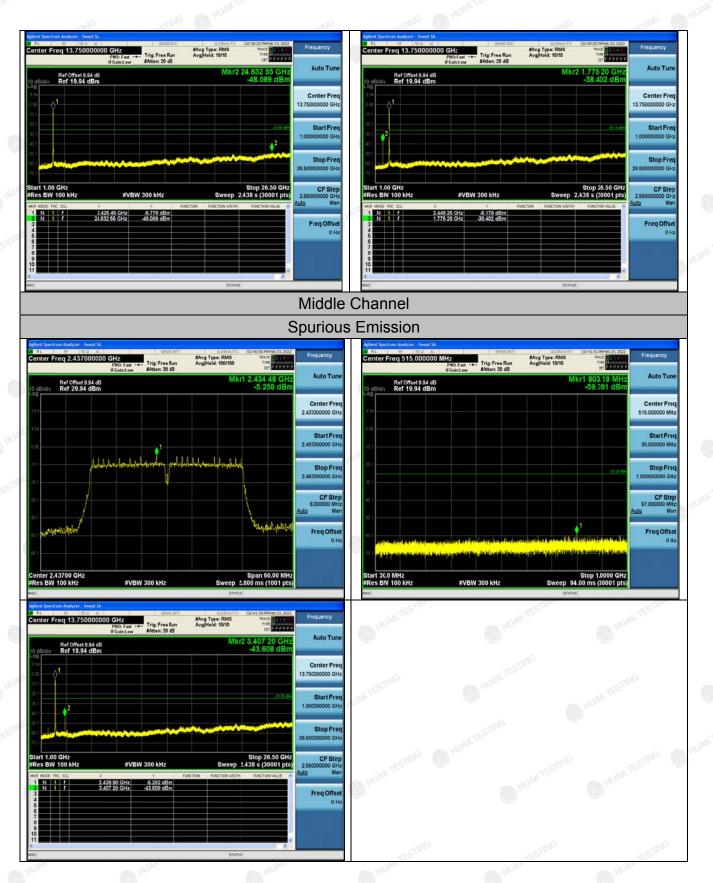
HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Page 40 of 70

J.

οVi



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 HUAK, this document cannont 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.

HUAK Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com



4.7. RADIATED SPURIOUS EMISSION MEASUREMENT

Test Specification

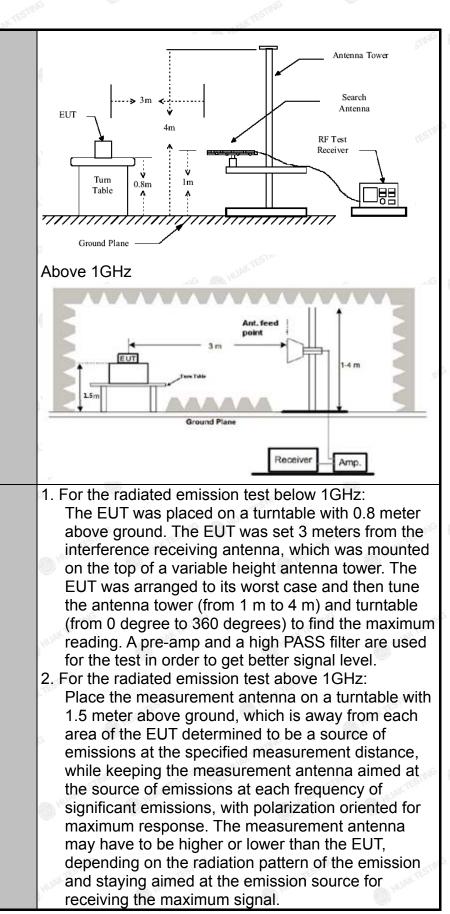
| Test Requirement: | FCC Part15 | C Sectio | n 1 | 5.209 | TESTIN | ß | TEST |
|-----------------------|----------------------------------|------------------------------|--------------|---------------|----------------------------|-------|--------------------------------|
| Test Method: | ANSI C63.10 |): 2013 | | | | | |
| Frequency Range: | 9 kHz to 25 (| GHz | | | STING | | |
| Measurement Distance: | 3 m | KTESTING | | A HU | pK | | KTESTING |
| Antenna Polarization: | Horizontal & | Vertical | | ~ | .6 | 0 | HOM |
| Operation mode: | Transmitting | mode w | ith | modulati | ion | | |
| | Frequency | Detecto | | RBW | VBW | | Remark |
| Receiver Setup: | 9kHz- 150kHz 150kHz- 30MHz | Quasi-pea Quasi-pea | | 200Hz 9kHz | 1kHz 30kHz | | si-peak Value si-peak Value |
| | 30MHz-1GHz | Quasi-pe | ak | 120KHz | 300KHz | Quas | si-peak Value |
| | Above 1GHz | Peak | TING | 1MHz | 3MHz | | eak Value |
| | | Peak | | 1MHz | 10Hz | Ave | erage Value |
| | Frequency | | | | | | asurement nce (meters) |
| | 0.009-0.4 | | | 2400/F(ł | | | 300 |
| | 0.490-1.7 | | | 24000/F(| KHz) | 1 | 30 |
| Limit: | 1.705-3 | | | <u> </u> | NC | Ś | <u>30</u> 3 |
| | 88-216 | | | 150 | | | 3 |
| | 10 | 216-960 | | | | STING | 3 151 |
| | Above 9 | Above 960 | | | HUAK | | 3 |
| | Frequency | Field Stren (microvolts/r | | olts/meter) | /meter) Distance (meter | | Detector |
| | Above 1GHz | ZOI | | 00 | 3 | | Average Peak |
| Test setup: | For radiated | G | — 3 Table | | |)† | -TING AN |
| | 30MHz to 10 | GHz | | | 9 | | 0 |

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

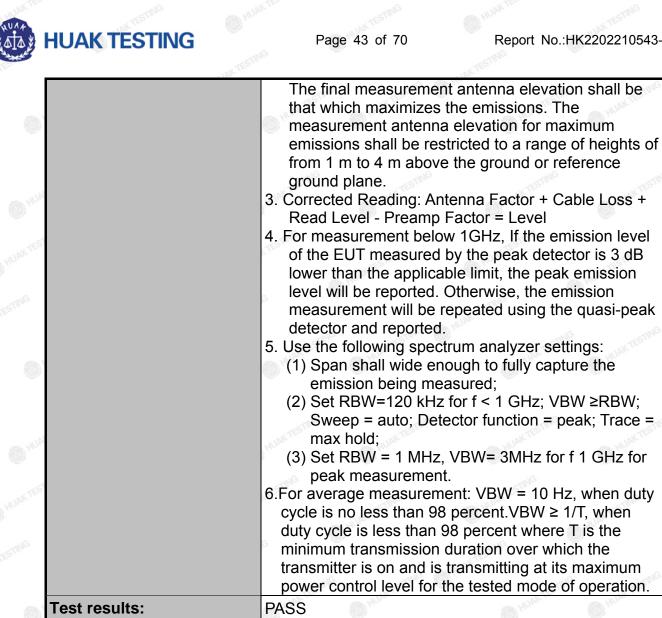


CATION



Test Procedure:

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 HUAK, this document cannont 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 HUAK this document cannont 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.ce



Test Instruments

| | Rad | liated Emission | Test Site (96 | 6) | |
|------------------------|--------------|--------------------|------------------|---------------------|--------------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
| Receiver | R&S | ESCI-7 | HKE-010 | Dec. 09, 2021 | Dec. 08, 2022 |
| Spectrum analyzer | Agilent | N9020A | HKE-048 | Dec. 09, 2021 | Dec. 08, 2022 |
| Spectrum analyzer | R&S | FSP40 | HKE-025 | Dec. 09, 2021 | Dec. 08, 2022 |
| High gain antenna | Schwarzbeck | LB-180400KF | HKE-054 | Dec. 09, 2021 | Dec. 08, 2022 |
| Preamplifier | Schwarzbeck | BBV 9743 | HKE-006 | Dec. 09, 2021 | Dec. 08, 2022 |
| Preamplifier | EMCI | EMC051845S E | HKE-015 | Dec. 09, 2021 | Dec. 08, 2022 |
| Preamplifier | Agilent | 83051A | HKE-016 | Dec. 09, 2021 | Dec. 08, 2022 |
| Loop antenna | Schwarzbeck | FMZB 1519 B | HKE-014 | Dec. 09, 2021 | Dec. 08, 2022 |
| Broadband antenna | Schwarzbeck | VULB 9163 | HKE-012 | Dec. 09, 2021 | Dec. 08, 2022 |
| Horn antenna | Schwarzbeck | 9120D | HKE-013 | Dec. 09, 2021 | Dec. 08, 2022 |
| High pass filter unit | Tonscend | JS0806-F | HKE-055 | Dec. 09, 2021 | Dec. 08, 2022 |
| Antenna Mast | Keleto | CC-A-4M | N/A | N/A | N/A |
| Position controller | Taiwan MF | MF7802 | HKE-011 | Dec. 09, 2021 | Dec. 08, 2022 |
| Radiated test software | Tonscend | TS+ Rev 2.5.0.0 | HKE-082 | N/A | N/A |
| RF cable | Times | 9kHz-1GHz | HKE-117 | Dec. 09, 2021 | Dec. 08, 2022 |
| RF cable | Times | 1-40G | HKE-034 | Dec. 09, 2021 | Dec. 08, 2022 |
| Horn Antenna | Schewarzbeck | BBHA 9170 | HKE-017 | Dec. 09, 2021 | Dec. 08, 2022 |

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

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



NG

K

Test Data

All the test modes completed for test. only the worst result of (802.11b at 2412MHz) was reported as below:



| 1 | Suspe | cieu Lisi | | | | | | | | |
|---|-------|-----------|--------|----------|----------|----------|--------|--------|-------|------------|
| | NO. | Freq. | Factor | Reading | Level | Limit | Margin | Height | Angle | Polarity |
| | NO. | [MHz] | [dB] | [dBµV/m] | [dBµV/m] | [dBµV/m] | [dB] | [cm] | [°] | Polanty |
| | 1 | 134.8649 | -18.87 | 55.98 | 37.11 | 43.50 | 6.39 | 100 | 45 | Horizontal |
| | 2 | 204.7748 | -14.94 | 52.44 | 37.50 | 43.50 | 6.00 | 100 | 235 | Horizontal |
| | 3 | 263.0330 | -13.57 | 54.00 | 40.43 | 46.00 | 5.57 | 100 | 29 | Horizontal |
| | 4 | 345.5656 | -11.67 | 49.66 | 37.99 | 46.00 | 8.01 | 100 | 3 | Horizontal |
| 8 | 5 | 543.6436 | -7.12 | 43.47 | 36.35 | 46.00 | 9.65 | 100 | 358 | Horizontal |
| 8 | 6 | 682.4925 | -4.97 | 47.35 | 42.38 | 46.00 | 3.62 | 100 | 120 | Horizontal |

Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com





QP Detector

| Suspe | cted List | | | | | | | | |
|-------|-----------|--------|----------|----------|----------|--------|--------|-------|----------|
| NO | Freq. | Factor | Reading | Level | Limit | Margin | Height | Angle | Delevite |
| NO. | [MHz] | [dB] | [dBµV/m] | [dBµV/m] | [dBµV/m] | [dB] | [cm] | [°] | Polarity |
| 1 | 136.8068 | -18.99 | 59.23 | 40.24 | 43.50 | 3.26 | 100 | 118 | Vertical |
| 2 | 247.4975 | -13.51 | 50.65 | 37.14 | 46.00 | 8.86 | 100 | 264 | Vertical |
| 3 | 345.5656 | -11.67 | 48.66 | 36.99 | 46.00 | 9.01 | 100 | 145 | Vertical |
| 4 | 504.8048 | -8.16 | 44.90 | 36.74 | 46.00 | 9.26 | 100 | 2 | Vertical |
| 5 | 543.6436 | -7.12 | 46.05 | 38.93 | 46.00 | 7.07 | 100 | 236 | Vertical |
| 6 | 827.1672 | -2.51 | 40.08 | 37.57 | 46.00 | 8.43 | 100 | 10 | Vertical |
| | | | | | | | | | |

Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level

Harmonics and Spurious Emissions Frequency Range (9kHz-30MHz)

| | | | office of the second se |
|------|-----------------|-------------------|--|
| A | Frequency (MHz) | Level@3m (dBµV/m) | Limit@3m (dBµV/m) |
| | © | 9 9 | · · · |
| TING | | | -TING |
| 2 | THE | AK TES | - WARTED |
| | - WARTER- | - HUTH TES | |

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor.

2. Theemission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Above 1GHz

RADIATED EMISSION TEST

LOW CH1 (802.11b Mode)/2412

Horizontal:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 4824 | 61.66 | -3.64 | 58.02 | 74 | -15.98 | peak |
| 4824 | 40.51 | -3.64 | 36.87 | 54 | -17.13 | AVG |
| 7236 | 50.36 | -0.95 | 49.41 | 74 | -24.59 | peak |
| 7236 | 41.44 | -0.95 | 40.49 | 54 | -13.51 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 4824 | 60.25 | -3.64 | 56.61 | 74 | -17.39 | peak |
| 4824 | 43.05 | -3.64 | 39.41 | 54 | -14.59 | AVG |
| 7236 | 52.15 | -0.95 | 51.2 | 74 | -22.8 | peak |
| 7236 | 40.76 | -0.95 | 39.81 | 54 | -14.19 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



FICATION

MID CH6 (802.11b Mode)/2437

Horizontal:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 4874 | 59.63 | -3.51 | 56.12 | 74 | -17.88 | peak |
| 4874 | 43.19 | -3.51 | 39.68 | 54 | -14.32 | AVG |
| 7311 | 54.72 | -0.82 | 53.9 | 74 | -20.1 | peak |
| 7311 | 41.38 | -0.82 | 40.56 | 54 | -13.44 | AVG |

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 4874 | 58.11 | -3.51 | 54.6 | 74 | -19.4 | peak |
| 4874 | 41.32 | -3.51 | 37.81 | 54 | -16.19 | AVG |
| 7311 | 51.78 | -0.82 | 50.96 | 74 | -23.04 | peak |
| 7311 | 37.37 | -0.82 | 36.55 | 54 | -17.45 | AVG |

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



HIGH CH11 (802.11b Mode)/2462

Horizontal:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|---------------------------|-----------------|--------|----------|
| (MHz) | (dBµV) | (dB) | o ^{so©} (dBμV/m) | (dBµV/m) | (dB) | Туре |
| 4924 | 60.54 | -3.43 | 57.11 | 74 | -16.89 | peak |
| 4924 | 41.73 | -3.43 | 38.3 | 54 | -15.7 | AVG |
| 7386 | 49.34 | -0.75 | 48.59 | ³ 74 | -25.41 | peak |
| 7386 | 40.22 | -0.75 | 39.47 | 54 | -14.53 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 4924 | 62.26 | -3.43 | 58.83 | 74 | -15.17 | peak |
| 4924 | 42.37 | -3.43 | 38.94 | 54 | -15.06 | AVG |
| 7386 | 50.42 | -0.75 | 49.67 | 74 | -24.33 | peak |
| 7386 | 38.33 | -0.75 | 37.58 | 54 | -16.42 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

(1) Measuring frequencies from 1 GHz to the 25 GHz.

(2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.

(3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

(4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.

(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.

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 HUAK, this document cannont 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

HUAK Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com



FIF

LOW CH1 (802.11g Mode)/2412

Horizontal:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 4824 | 55.91 | -3.64 | 52.27 | 74 | -21.73 | peak |
| 4824 | 43.14 | -3.64 | 39.5 | 54 | -14.5 | AVG |
| 7236 | 49.33 | -0.95 | 48.38 | 74 | -25.62 | peak |
| 7236 | 41.13 | -0.95 | 40.18 | 54 | -13.82 | AVG |

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 4824 | 53.64 | -3.64 | 50 | 74 | -24 | peak |
| 4824 | 43.05 | -3.64 | 39.41 | 54 | -14.59 | AVG |
| 7236 | 50.73 | -0.95 | 49.78 | 74 | -24.22 | peak |
| 7236 | 43.55 | -0.95 | 42.6 | 54 | -11.4 | AVG |

= Antenna Factor + Cable Loss – Pre-amplifier. Remark: Factor

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Page 51 of 70

NG

IK Pre

MID CH6 (802.11g Mode)/2437

Horizontal:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 4874 | 59.48 | -3.51 | 55.97 | 74 | -18.03 | peak |
| 4874 | 43.23 | -3.51 | 39.72 | 54 | -14.28 | AVG |
| 7311 | 53.42 | -0.82 | 52.6 | 74 | -21.4 | peak |
| 6 7311 | 40.34 | -0.82 | 39.52 | 54 | -14.48 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 4874 | 55.86 | -3.51 | 52.35 | 74 | -21.65 | peak |
| 4874 | 42.27 | -3.51 | 38.76 | 54 | -15.24 | AVG |
| 7311 | 48.74 | -0.82 | 47.92 | 74 🌒 | -26.08 | peak |
| 7311 | 40.05 | -0.82 | 39.23 | 54 | -14.77 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



HIGH CH11 (802.11g Mode)/2462

Horizontal:

| Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|----------------|-----------------------------------|---|--|--|--|
| (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 59.78 | -3.43 | 56.35 | 74 | -17.65 | peak |
| 42.66 | -3.43 | 39.23 | 54 | -14.77 | AVG |
| 50.89 | -0.75 | 50.14 | 74 | -23.86 | peak |
| 41.05 | -0.75 | 40.3 | 54 | -13.7 | AVG |
| | (dBµV) 59.78 42.66 50.89 | (dBµV) (dB) 59.78 -3.43 42.66 -3.43 50.89 -0.75 | (dBµV) (dB) (dBµV/m) 59.78 -3.43 56.35 42.66 -3.43 39.23 50.89 -0.75 50.14 | (dBµV) (dB) (dBµV/m) (dBµV/m) 59.78 -3.43 56.35 74 42.66 -3.43 39.23 54 50.89 -0.75 50.14 74 | (dBµV) (dB) (dBµV/m) (dBµV/m) (dBµV/m) 59.78 -3.43 56.35 74 -17.65 42.66 -3.43 39.23 54 -14.77 50.89 -0.75 50.14 74 -23.86 |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| | | 1999 | ~ | | | |
|-----------|----------------|--------|----------------|----------|--------|----------|
| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
| (MHz) | (dBµV) | (dB) | (dBμV/m) | (dBµV/m) | (dB) | Туре |
| 4924 | 61.45 | -3.43 | 58.02 | 74 | -15.98 | peak |
| 4924 | 44.99 | -3.43 | م 41.56 | 54 | -12.44 | AVG |
| 7386 | 52.52 | -0.75 | 51.77 | 74 | -22.23 | peak |
| 7386 | 40.18 | -0.75 | 39.43 | 54 | -14.57 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

(1) Measuring frequencies from 1 GHz to the 25 GHz.

(2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.

(3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

(4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.

(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.

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 HUAK, this document cannont 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

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



LOW CH1 (802.11n/H20 Mode)/2412

Horizontal:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 4824 | 55.31 | -3.64 | 51.67 | 74 | -22.33 | peak |
| 4824 | 42.26 | -3.64 | 38.62 | 54 | -15.38 | AVG |
| 7236 | 51.48 | -0.95 | 50.53 | 74 | -23.47 | peak |
| 7236 | 39.85 | -0.95 | 38.9 | 54 | -15.1 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 4824 | 58.69 | -3.64 | 55.05 | 74 | -18.95 | peak |
| 4824 | 42.02 | -3.64 | 38.38 | 54 | -15.62 | AVG |
| 7236 | 52.33 | -0.95 | 51.38 | 74 🌒 | -22.62 | peak |
| o 7236 | 39.59 | -0.95 | 38.64 | 54 | -15.36 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



FICATION

MID CH6 (802.11n/H20 Mode)/2437

Horizontal:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 4874 | 59.96 | -3.51 | 56.45 | 74.00 | -17.55 | peak |
| 4874 | 42.04 | -3.51 | 38.53 | 54.00 | -15.47 | AVG |
| 7311 💿 | 52.91 | -0.82 | 52.09 | 74.00 | -21.91 | peak |
| 7311 | 39.28 | -0.82 | 38.46 | 54.00 | -15.54 | AVG |

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|-----------|----------------|--------|----------------|----------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре |
| 4874 | 56.52 | -3.51 | 53.01 | 74.00 | -20.99 | peak |
| 4874 | 42.48 | -3.51 | 38.97 | 54.00 | -15.03 | AVG |
| 7311 💿 | 50.57 | -0.82 | 49.75 | 74.00 | -24.25 | peak |
| 7311 | 39.36 | -0.82 | 38.54 | 54.00 | -15.46 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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 HUAK, this document cannont 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 CH11 (802.11n/H20 Mode)/2462

Horizontal:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector Turce |
|-----------|----------------|--------|----------------|----------|--------|----------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 4924 | 54.88 | -3.43 | 51.45 | 74 | -22.55 | peak |
| 4924 | 41.06 | -3.43 | 37.63 | ه 54 | -16.37 | AVG |
| 7386 | 49.82 | -0.75 | 49.07 | 74 | -24.93 | peak |
| 7386 | 40.16 | -0.75 | 39.41 | 54 | -14.59 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector Turc |
|-----------|----------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 4924 | 57.46 | -3.43 | 54.03 | 74 | -19.97 | peak |
| 4924 | 40.26 | -3.43 | 36.83 | 54 | -17.17 | AVG |
| 7386 | 54.24 | -0.75 | 53.49 | 74 | -20.51 | peak |
| 7386 | 38.76 | -0.75 | 38.01 | 54 | -15.99 | AVG |

= Antenna Factor + Cable Loss – F re-amplifier.

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 HUAK, this document cannont 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.



FIF

LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

| Reading Result | Factor | Emission Level | Limits | Margin | Detector |
|----------------|-----------------------------------|---|---|---|--|
| (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 58.43 | -3.63 | 54.8 | 74 | -19.2 | peak |
| 41.61 | -3.63 | 37.98 | ₆ 54 | -16.02 | AVG |
| 50.16 | -0.94 | 49.22 | 74 | -24.78 | peak |
| 37.17 | -0.94 | 36.23 | 54 | -17.77 | AVG |
| | (dBµV) 58.43 41.61 50.16 | (dBµV) (dB) 58.43 -3.63 41.61 -3.63 50.16 -0.94 | (dBµV) (dB) (dBµV/m) 58.43 -3.63 54.8 41.61 -3.63 37.98 50.16 -0.94 49.22 | (dBµV) (dB) (dBµV/m) (dBµV/m) 58.43 -3.63 54.8 74 41.61 -3.63 37.98 54 50.16 -0.94 49.22 74 | (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 58.43 -3.63 54.8 74 -19.2 41.61 -3.63 37.98 54 -16.02 50.16 -0.94 49.22 74 -24.78 |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector Turne |
|-----------|----------------|--------|----------------|----------|--------|-----------------------------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 4844 | 60.01 | -3.63 | 56.38 | 74 | -17.62 | peak |
| 4844 | 41.44 | -3.63 | 37.81 | 54 | -16.19 | AVG |
| 7266 | 49.67 | -0.94 | 48.73 | 74 | -25.27 | peak |
| 7266 | 38.56 | -0.94 | 37.62 | 54 | -16.38 | AVG |

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 HUAK, this document cannont 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.



Page 57 of 70

NG

IК °PR

MID CH6 (802.11n/H40 Mode)/2437

Horizontal:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector Type |
|-----------|----------------|--------|----------------|-----------------|--------|-----------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | - Detector Type |
| 4874 | 57.97 | -3.51 | 54.46 | 74 | -19.54 | peak |
| 4874 | 41.92 | -3.51 | 38.41 | _ه 54 | -15.59 | AVG |
| 7311 | 48.24 | -0.82 | 47.42 | 74 | -26.58 | peak |
| o 7311 | 38.53 | -0.82 | 37.71 | 54 | -16.29 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Data atau Taura |
|-----------|----------------|--------|----------------|----------|--------|-----------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 4874 | 53.69 | -3.51 | 50.18 | 74 | -23.82 | peak |
| 4874 | 41.58 | -3.51 | 38.07 | 54 | -15.93 | AVG |
| 7311 | 52.79 | -0.82 | 51.97 | 74 | -22.03 | peak |
| 7311 | 38.37 | -0.82 | 37.55 | 54 | -16.45 | AVG |

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 HUAK, this document cannont 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 CH9 (802.11n/H40 Mode)/2452

Horizontal:

| Reading Result | Factor | Emission Level | Limits | Margin | Detector Ture |
|----------------|-----------------------------------|---|---|---|--|
| (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 53.73 | -3.43 | 50.3 | 74 | -23.7 | peak |
| 43.21 | -3.43 | 39.78 | 54 | -14.22 | AVG |
| 50.67 | -0.75 | 49.92 | 74 | -24.08 | peak |
| 40.58 | -0.75 | 39.83 | 54 | -14.17 | AVG |
| | (dBµV) 53.73 43.21 50.67 | (dBµV) (dB) 53.73 -3.43 43.21 -3.43 50.67 -0.75 | (dBµV) (dB) (dBµV/m) 53.73 -3.43 50.3 43.21 -3.43 39.78 50.67 -0.75 49.92 | (dBµV) (dB) (dBµV/m) (dBµV/m) 53.73 -3.43 50.3 74 43.21 -3.43 39.78 54 50.67 -0.75 49.92 74 | (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 53.73 -3.43 50.3 74 -23.7 43.21 -3.43 39.78 54 -14.22 50.67 -0.75 49.92 74 -24.08 |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector Turne |
|-----------|----------------|--------|----------------|----------|--------|----------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 4904 | 55.54 | -3.43 | 52.11 | 74 | -21.89 | peak |
| 4904 | 41.05 | -3.43 | 37.62 | 54 | -16.38 | AVG |
| 7356 | 49.04 | -0.75 | 48.29 | 74 | -25.71 | peak |
| 7356 | 39.61 | -0.75 | 38.86 | 54 | -15.14 | AVG |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark:

(1) Measuring frequencies from 1 GHz to the 25 GHz.

(2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
(3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.

(4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.

(5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

(6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.

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 HUAK, this document cannont 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

HUAK Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com



Test Result of Radiated Spurious at Band edges

Operation Mode:

802.11b Mode TX CH Low (2412MHz)

Horizontal

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Datesting |
|-----------|--------------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 2310.00 | 56.49 | -5.81 | 50.68 | 74 | -23.32 | peak |
| 2310.00 | 43.72 | -5.81 | 37.91 | 54 | -16.09 | AVG |
| 2390.00 | 51.38 | -5.84 | 45.54 | 74 | -28.46 | peak |
| 2390.00 | 38.96 | -5.84 | 33.12 | 54 | -20.88 | AVG |
| | r = Antenna Factor | | | MG | -20.00 | |

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | DIESTING |
|--------------|--------------------|--------------|------------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 2310.00 | 54.57 | -5.81 | 48.76 | 74 | -25.24 | peak |
| 2310.00 | 41.57 | -5.81 | 35.76 | 54 | -18.24 | AVG |
| 2390.00 | 54.82 | -5.84 | 48.98 | 74 | -25.02 | peak |
| 2390.00 | 39.67 | -5.84 | 33.83 | 54 | -20.17 | AVG |
| mark: Factor | r = Antenna Factor | + Cable Loss | - Pre-amplifier. | NG | STING | STING |

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



VCATIOn.

Operation Mode: TX CH High (2462MHz)

Horizontal

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector Ture |
|-----------|----------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 2483.50 | 55.59 | -5.81 | 49.78 | 74 | -24.22 | peak |
| 2483.50 | 43.31 | -5.81 | 37.5 | 54 | -16.5 | AVG |
| 2500.00 | 51.68 | -6.06 | 45.62 | 74 rest | -28.38 | peak |
| 2500.00 | 40.11 | -6.06 | 34.05 | 54 | -19.95 | AVG |

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Data stor Tura |
|-----------|----------------|--------|----------------|----------|--------|----------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 2483.50 | 55.73 | -5.81 | 49.92 | 74 HUAN | -24.08 | peak |
| 2483.50 | 45.28 | -5.81 | 39.47 | 54 | -14.53 | AVG |
| 2500.00 | 48.82 | -6.06 | 42.76 | 74 | -31.24 | peak |
| 2500.00 | 43.96 | -6.06 | 37.9 | 54 | -16.1 | AVG |

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

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 HUAK, this document cannont 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.



Operation Mode: 802.11g Mode TX CH Low (2412MHz)

Horizontal

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Distantian Tom |
|-----------|----------------|--------|----------------|----------|--------|----------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 2310.00 | 57.55 | -5.81 | 51.74 | 74 | -22.26 | peak |
| 2310.00 | 44.63 | -5.81 | 38.82 | 54 | -15.18 | AVG |
| 2390.00 | 54.76 | -5.84 | 48.92 | 74 | -25.08 | peak |
| 2390.00 | 42.24 | -5.84 | 36.4 | 54 | -17.6 | AVG |

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector Ture |
|-----------|----------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 2310.00 | 55.65 | -5.81 | 49.84 | 74 | -24.16 | peak |
| 2310.00 | 41.09 | -5.81 | 35.28 | 54 | -18.72 | AVG |
| 2390.00 | 48.92 | -5.84 | 43.08 | 74 | -30.92 | peak |
| 2390.00 | 43.36 | -5.84 | 37.52 | 54 | -16.48 | AVG |

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail: service@cer-mark.com



Operation Mode: TX CH High (2462MHz)

Horizontal

| Frequency | Reading Result | Factor | Emission Level | 🖉 Limits | Margin | Detector |
|----------------|------------------|----------------|----------------|----------|---------|-----------------------------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 2483.50 | 57.14 | -5.65 | 51.49 | 74 | -22.51 | peak |
| 2483.50 | 45.73 d | -5.65 | 40.08 | 54 | -13.92 | AVG |
| 2500.00 | 48.97 | -5.65 | 43.32 | 74 | -30.68 | peak |
| 2500.00 | 40.22 | -5.65 | 34.57 | 54 | -19.43 | AVG |
| Remark: Factor | = Antenna Factor | + Cable Loss - | Pre-amplifier. | | TESTING | KTESTING |

Vertical:

| Frequency | Reading Result | Factor | Emission Level | No Limits | Margin | Detector |
|----------------|--------------------|----------------|------------------|-----------|---------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 2483.50 | 55.19 | -5.65 | 49.54 | 74 | -24.46 | peak |
| 2483.50 | 42.22 | -5.65 | 36.57 | 54 | -17.43 | AVG |
| 2500.00 | 51.93 | -5.65 | 46.28 | 74 | -27.72 | peak |
| 2500.00 | 42.65 | -5.65 | 37 | 54 | -17 | AVG |
| Remark: Factor | r = Antenna Factor | + Cable Loss - | - Pre-amplifier. | 0 | TESTING | OKTESTING |

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

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 HUAK, this document cannont 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.



NG

IK Pr

Operation Mode: 802.11n/H20 Mode TX CH Low (2412MHz)

Horizontal

| Frequency | Reading Result | Factor | Emission Level | 🕺 Limits | Margin | Detector |
|----------------|------------------|----------------|----------------|--------------------|--------|-----------------------------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 2310.00 | 54.32 | -5.81 | 48.51 | 74 | -25.49 | peak |
| 2310.00 | 46.32 | -5.81 | 40.51 | 54 MU ^M | -13.49 | AVG |
| 2390.00 | 53.14 | -5.84 | 47.3 | 74 | -26.7 | peak |
| 2390.00 | 42.32 | -5.84 | 36.48 | 54 | -17.52 | AVG |
| Remark: Factor | = Antenna Factor | + Cable Loss - | Pre-amplifier. | G O HIL | STING | TESTING |

Vertical:

| Frequency | Reading Result | Factor | Emission Level | 🔊 Limits | Margin | Detector |
|---------------|--------------------|-----------------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 2310.00 | 54.74 | -5.81 | 48.93 | 74 | -25.07 | peak |
| 2310.00 | 41.84 ^م | -5.81 | 36.03 | 54 | -17.97 | AVG |
| 2390.00 | 53.47 | -5.84 | 47.63 | 74 | -26.37 | peak |
| 2390.00 | 40.33 | -5.84 | 34.49 | 54 | -19.51 | AVG |
| Remark Eactor | = Antenna Factor | + Cable I oss – | Pre-amplifier | G O Hour | Blan | TING |

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Operation Mode: TX CH High (2462MHz)

Horizontal

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detailure Tore |
|-----------|----------------|--------|----------------|-----------------|--------|----------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 2483.50 | 54.96 | -5.65 | 49.31 | 74 ^M | -24.69 | peak |
| 2483.50 | 43.62 | -5.65 | 37.97 | 54 | -16.03 | AVG |
| 2500.00 | 51.19 | -5.65 | 45.54 | 74 | -28.46 | peak |
| 2500.00 | 40.81 | -5.65 | 35.16 | 54 | -18.84 | AVG |

Vertical:

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector Ture |
|-----------|----------------|--------|----------------|----------|--------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 2483.50 | 54.28 | -5.65 | 48.63 | 74 | -25.37 | peak |
| 2483.50 | 45.84 | -5.65 | 40.19 | 54 | -13.81 | AVG |
| 2500.00 | 50.28 | -5.65 | 44.63 | 74 | -29.37 | peak |
| 2500.00 | 42.31 | -5.65 | 36.66 | 54 | -17.34 | AVG |

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

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 HUAK, this document cannont 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.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



Operation Mode: 802.11n/H40 Mode TX CH Low (2422MHz)

Horizontal

| Frequency | Reading Result | Factor | Emission Level | % Limits | Margin | Detector |
|---------------|----------------------|----------------|----------------|----------|--------|-----------------------------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| و 2310.00 | 56.24 | -5.81 | 50.43 | 74 | -23.57 | peak |
| 2310.00 | ESTING / | -5.81 | / TESTING | 54 | 1 | AVG |
| 2390.00 | 60.27 | -5.84 | 54.43 | 74 | -19.57 | peak |
| 2390.00 | 51.92 | -5.84 | 46.08 | 54 | -7.92 | AVG |
| emark: Factor | r = Antenna Factor - | + Cable Loss – | Pre-amplifier. | e Ott | TING | TESTING |

Vertical:

| Frequency | Reading Result | Factor | Emission Level | 💉 Limits | Margin | Detector Turne |
|----------------|--------------------|--------------|----------------|----------|------------|----------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| alia 2310.00 | 55.68 | -5.81 | 49.87 | 74 | -24.13 | peak |
| 2310.00 | CESTING / | -5.81 | ALTESTING | 54 MUM | 1 | AVG |
| 2390.00 | 62.15 | -5.84 | 56.31 | 74 | -17.69 | peak |
| 2390.00 | 53.27 | -5.84 | 47.43 | 54 | -6.57 | AVG |
| Pomark: Eactor | r = Antenna Factor | + Cable Loss | Bro amplifior | 1000 | V TESTAILS | AK TESTIL |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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 HUAK this document cannont 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.

HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



VCATION

Operation Mode: TX CH High (2452MHz)

Horizontal

| Frequency | Reading Result | Factor | Emission Level | Limits | Margin | Detector Ture |
|-----------|----------------|--------|----------------|----------|---------|---------------|
| (MHz) | (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 2483.50 | 56.31 | -5.65 | 50.66 | 74 HUM | -23.34 | peak |
| 2483.50 | 1 | -5.65 | HUAN - | 54 | 1 | AVG |
| 2500.00 | 55.45 | -5.65 | 49.8 | 74 | -24.2 | peak |
| 2500.00 | AK TESTING | -5.65 | SIMG / KTESTIN | 54 | TESTING | AVG |

Vertical:

| Reading Result | Factor | Emission Level | Limits 🔘 | Margin | Detector Turne |
|----------------|----------------------|--|--|--|---|
| (dBµV) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Detector Type |
| 56.27 | -5.65 | 50.62 | 74 | -23.38 | peak |
| / | -5.65 | · / | 54 | , 🔍 | AVG |
| 54.19 | -5.65 | 48.54 | 74 | -25.46 | peak |
| ANTE / | -5.65 | AUAKTE | 54 | HUAKTES | AVG |
| | (dBµV) 56.27 / | (dBµV) (dB) 56.27 -5.65 / -5.65 54.19 -5.65 | (dBµV) (dB) (dBµV/m) 56.27 -5.65 50.62 / -5.65 / 54.19 -5.65 48.54 | (dBµV) (dB) (dBµV/m) (dBµV/m) 56.27 -5.65 50.62 74 / -5.65 / 54 54.19 -5.65 48.54 74 | (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 56.27 -5.65 50.62 74 -23.38 / -5.65 / 54 / 54.19 -5.65 48.54 74 -25.46 |

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

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 HUAK, this document cannont 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.



4.8. ANTENNA REQUIREMENT

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of astandard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is Internal Antenna, need professional installation. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 2dBi.

WIFI ANTENNA



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 HUAK, this document cannont 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.



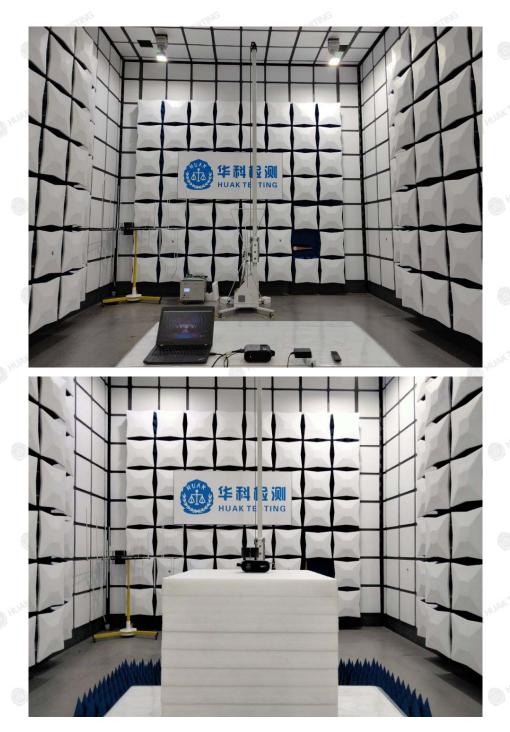
Page 68 of 70

TING

HK. Beer

5. PHOTOGRAPH OF TEST

Radiated Emissions



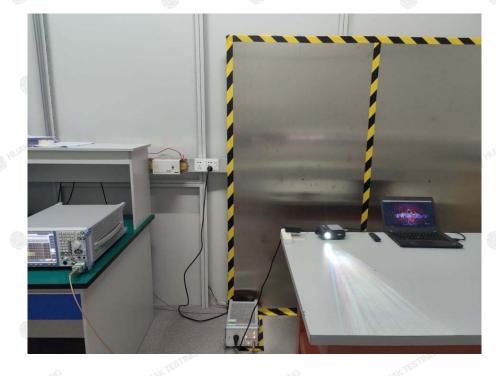
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.



Page 69 of 70

Report No.:HK2202210543-E

Conducted Emission



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 HUAK, this document cannont 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.



IFICATION

6. PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

----End of test report--

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 HUAK, this document cannont 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.