

FCC TEST REPORT

Test report
On Behalf of
Shenzhen Alldocube Science And Technology Co., Ltd.
For

Pad Model No.: T1021P

FCC ID: 2A3J2-T1021P

Prepared For: Shenzhen Alldocube Science And Technology Co., Ltd.

1 Floor, A building, 3rd factory, Yujianfeng Industry park, 289# Huafan Road, Tongsheng community, Dalang, Longhua District, Shenzhen, China

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

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Date of Test: Oct. 27, 2021 ~Nov. 17, 2021

Date of Report: Nov. 17, 2021

Report Number: HK2110284067-5E

Page 2 of 70 Report No.: HK2110284067-5E

TEST RESULT CERTIFICATION

Applicant's name Shenzhen Alldocube Science And Technology Co., Ltd.

1 Floor, A building, 3rd factory, Yujianfeng Industry park, 289#

Address Huafan Road, Tongsheng community, Dalang, Longhua

District, Shenzhen, China

Manufacture's Name...... Shenzhen Alldocube Science And Technology Co., Ltd.

1 Floor, A building, 3rd factory, Yujianfeng Industry park, 289#

Address Huafan Road, Tongsheng community, Dalang, Longhua

District, Shenzhen, China

Product description

Trade Mark: ALLDOCUBE

Product name..... Pad

Model and/or type reference .: T1021P

FCC Rules and Regulations Part 15 Subpart C Section 15.247

ANSI C63.10: 2013

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Date of Test

Date (s) of performance of tests Oct. 27, 2021 ~Nov. 17, 2021

Date of Issue...... Nov. 17, 2021

Test Result : Pass

Testing Engineer ::

(Gary Qian)

TING

(Eden Hu)

Authorized Signatory:

Technical Manager

Jason Hou

(Jason Zhou)



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** Modified History **

| Revision | Description | Issued Data | Remark |
|--------------|-----------------------------|---------------|------------|
| Revision 1.0 | Initial Test Report Release | Nov. 17, 2021 | Jason Zhou |
| | | | |
| TOG | mG mG | m/G | G ING |

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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.

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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. | ltem | 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 mg | All emissions, radiated(>1G) | ±4.28dB |
| 6 | Temperature | ±0.1°C |
| 7 | Humidity | ±1.0% |

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2. EUT DESCRIPTION

2.1. GENERAL DESCRIPTION OF EUT

| Equipment: | Pad |
|----------------------|--|
| Model Name: | T1021P |
| Series Model: | N/A MARKET MARKE |
| Model Difference: | N/A |
| FCC ID: | 2A3J2-T1021P |
| Antenna Type: | Internal Antenna |
| Antenna Gain: | 1.4dBi |
| Operation frequency: | 802.11b/g/n 20:2412~2462 MHz 802.11n 40: 2422~2452MHz |
| Number of Channels: | 802.11b/g/n20: 11CH 802.11n 40: 7CH |
| Modulation Type: | CCK/OFDM/DBPSK/DAPSK |
| Power Source: | DC 3.8V from battery or DC 5V from adapter |
| Power Rating: | DC 3.8V from battery or DC 5V from adapter |

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2.2. Carrier Frequency of Channels

| Channel List For 802.11b/802.11g/802.11n (HT20) | | | | | | | |
|---|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|
| 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) | | | | (1) HOP | | | |
|---------------------------------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| STING_ | XTESTING CO | 04 | 2427 | 07 | 2442 | TESTIN | NTE |
| @ H | | 05 | 2432 | 08 | 2447 | HUAK | A HOM |
| 03 | 2422 | 06 | 2437 | 09 | 2452 | | |

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

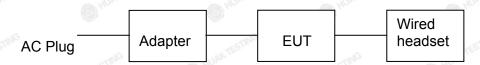
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2.4. DESCRIPTION OF TEST SETUP

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



Operation of EUT during radiation above 1GHz testing:



Adapter information

Model: ES568E-U050200XYF Input: 100-240V, 50-60Hz, 0.5A

Output: 5V, 2A

Wired headset information

Model: H1

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.

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3. ENERA INFORMATION

3.1. TEST ENVIRONMENT AND MODE

| Temperature: | 25.0 °C | | |
|-----------------------|--|--|--|
| Humidity: | 56 % RH | | |
| Atmospheric Pressure: | 1010 mbar | | |
| est 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.

| ESTING | Mode | Data r | ate | | |
|--------|--------------|--------|-------------------|--|--|
| | 802.11b | 1Mbp | os o municipality | | |
| ò | 802.11g | 6Mbp | os | | |
| | 802.11n(H20) | 6.5Mb | ps | | |
| M HI | 802.11n(H40) | 13.5M | bps Marine | | |
| | | | (1) | | |

Final Test Mode:

| Operation mode: | Keep the EUT in continuous transmitting |
|-----------------|---|
| Operation mode. | 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.



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 | 1 | NG I HUAN | TESTING I | HUAKTESTA | 1 STING |

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 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.

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4. TEST RESULTS AND MEASUREMENT DATA

4.1. CONDUCTED EMISSION

Test Specification

| | TIME TIME TIME | | |
|-------------------|--|--|--|
| Test Requirement: | FCC Part15 C Section 15.207 | | |
| Test Method: | ANSI C63.10:2013 | | |
| Frequency Range: | 150 kHz to 30 MHz | | |
| Receiver setup: | RBW=9 kHz, VBW=30 kHz, Sweep time=auto | | |
| Limits: | Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50 | | |
| Test Setup: | Reference Plane 40cm 80cm Filter AC power EMI Receiver Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m | | |
| Test Mode: | Charging + transmitting with modulation | | |
| Test Procedure: | The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement. | | |
| Test Result: | PASS | | |
| WA. | 1100 | | |

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Test Instruments

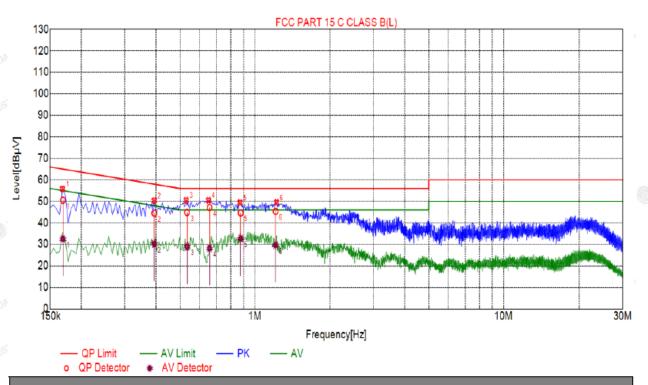
| Conducted Emission Shielding Room Test Site (843) | | | | | | | | |
|---|----------|--------------------|---------|---------------|---------------|--|--|--|
| Equipment Manufacturer Model Serial Number Calibration Date Calibration | | | | | | | | |
| Receiver | R&S | ESCI 7 | HKE-010 | Dec. 10, 2020 | Dec. 09, 2021 | | | |
| LISN | R&S | ENV216 | HKE-002 | Dec. 10, 2020 | Dec. 09, 2021 | | | |
| Coax cable (9KHz-30MHz) | Times | 381806-002 | N/A | Dec. 10, 2020 | Dec. 09, 2021 | | | |
| Conducted test software | Tonscend | TS+ Rev 2.5.0.0 | HKE-081 | M/A | N/A | | | |

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



4.2. TEST RESULT

Test Specification: Line



| Sus | pected | List |
|-----|--------|------|
| | | |

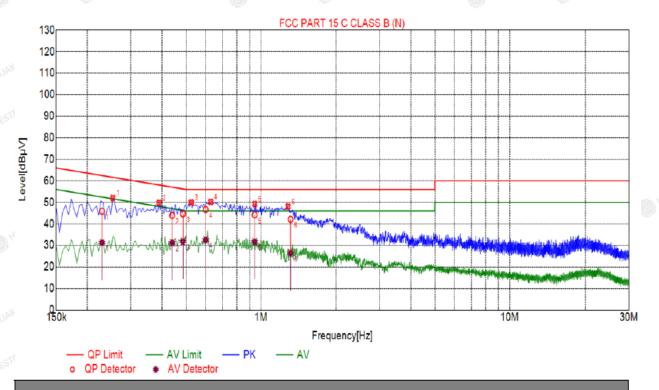
| NO. | Freq. [MHz] | Level [dBµV] | Factor [dB] | Limit [dBµ∨] | Margin [dB] | Reading [dBμV] | Detector | Туре |
|-----|----------------|-----------------|----------------|-----------------|----------------|-------------------|----------|------|
| 1 | 0.1680 | 55.81 | 20.01 | 65.06 | 9.25 | 35.80 | PK | L |
| 2 | 0.3930 | 50.40 | 20.04 | 58.00 | 7.60 | 30.36 | PK | L |
| 3 | 0.5280 | 50.49 | 20.04 | 56.00 | 5.51 | 30.45 | PK | L |
| 4 | 0.6495 | 50.49 | 20.05 | 56.00 | 5.51 | 30.44 | PK | L |
| 5 | 0.8700 | 49.41 | 20.06 | 56.00 | 6.59 | 29.35 | PK | L |
| 6 | 1.2210 | 49.53 | 20.09 | 56.00 | 6.47 | 29.44 | PK | L |

| Final Data List | | | | | | | | | | | |
|-----------------|----------------|--------------------------|-----------------------|-----------------------|----------------------|-------------------------|-----------------------|-----------------------|----------------------|-------------------------|------|
| NO. | Freq. [MHz] | Correction factor[dB] | QP Value [dBµV] | QP Limit [dΒμV] | QP Margin [dB] | QP Reading [dΒμV] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | AV Reading [dBμV] | Туре |
| 1 | 0.1686 | 20.01 | 50.56 | 65.03 | 14.47 | 30.55 | 32.45 | 55.03 | 22.58 | 12.44 | L |
| 2 | 0.3931 | 20.04 | 44.52 | 58.00 | 13.48 | 24.48 | 30.21 | 48.00 | 17.79 | 10.17 | L |
| 3 | 0.5324 | 20.05 | 44.84 | 56.00 | 11.16 | 24.79 | 28.88 | 46.00 | 17.12 | 8.83 | L |
| 4 | 0.6560 | 20.05 | 47.10 | 56.00 | 8.90 | 27.05 | 28.11 | 46.00 | 17.89 | 8.06 | L |
| 5 | 0.8751 | 20.06 | 44.60 | 56.00 | 11.40 | 24.54 | 32.63 | 46.00 | 13.37 | 12.57 | L |
| 6 | 1.2094 | 20.09 | 45.32 | 56.00 | 10.68 | 25.23 | 29.59 | 46.00 | 16.41 | 9.50 | L |

Remark: Margin = Limit - Level

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

Test Specification: Neutral



| Sus | pected | List |
|-----|--------|------|
| | | |

| | • | | | | | | | | | |
|---|-----|----------------|-----------------|----------------|-----------------|----------------|-------------------|----------|------|--|
| | NO. | Freq. [MHz] | Level [dBµV] | Factor [dB] | Limit [dBµV] | Margin [dB] | Reading [dBμV] | Detector | Туре | |
| | 1 | 0.2535 | 52.03 | 20.04 | 61.64 | 9.61 | 31.99 | PK | N | |
| | 2 | 0.3885 | 49.78 | 20.04 | 58.10 | 8.32 | 29.74 | PK | N | |
| | 3 | 0.5235 | 49.98 | 20.04 | 56.00 | 6.02 | 29.94 | PK | N | |
| | 4 | 0.6270 | 50.26 | 20.05 | 56.00 | 5.74 | 30.21 | PK | N | |
| 3 | 5 | 0.9420 | 49.25 | 20.06 | 56.00 | 6.75 | 29.19 | PK | N | |
| | 6 | 1.2840 | 48.06 | 20.09 | 56.00 | 7.94 | 27.97 | PK | N | |

| Final | Final Data List | | | | | | | | | | |
|-------|-----------------|--------------------------|-----------------------|-----------------------|----------------------|-------------------------|-----------------------|-----------------------|----------------------|-------------------------|------|
| NO. | Freq. [MHz] | Correction factor[dB] | QP Value [dBµV] | QP Limit [dΒμV] | QP Margin [dB] | QP Reading [dBμV] | AV Value [dBµV] | AV Limit [dBμV] | AV Margin [dB] | AV Reading [dBμV] | Туре |
| 1 | 0.2290 | 20.03 | 45.89 | 62.48 | 16.59 | 25.86 | 31.25 | 52.48 | 21.23 | 11.22 | N |
| 2 | 0.4384 | 20.05 | 43.93 | 57.09 | 13.16 | 23.88 | 31.16 | 47.09 | 15.93 | 11.11 | N |
| 3 | 0.4849 | 20.04 | 44.64 | 56.26 | 11.62 | 24.60 | 31.77 | 46.26 | 14.49 | 11.73 | N |
| 4 | 0.5985 | 20.05 | 46.65 | 56.00 | 9.35 | 26.60 | 32.51 | 46.00 | 13.49 | 12.46 | N |
| 5 | 0.9419 | 20.06 | 44.20 | 56.00 | 11.80 | 24.14 | 31.69 | 46.00 | 14.31 | 11.63 | N |
| 6 | 1.3138 | 20.10 | 42.10 | 56.00 | 13.90 | 22.00 | 26.36 | 46.00 | 19.64 | 6.26 | N |

Remark: Margin = Limit - Level

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



4.3. MAXIMUM CONDUCTED OUTPUT POWER

Test Specification

| Test Requirement: | FCC Part15 C Section 15 | 5.247 (b)(3) | X TESTIN |
|-------------------|---|--|-------------------------------------|
| Test Method: | KDB 558074 | O HUM | O HUN |
| Limit: | 30dBm | NKTESTING | e)(a |
| Test Setup: | Power meter | EUT | HARTESING WARTESTING |
| Test Mode: | Transmitting mode with m | nodulation | |
| Test Procedure: | 1. The testing follows the FCC KDB 558074 D0 v05r02. 2. The RF output of EUT meter by RF cable and compensated to the result. 3. Set to the maximum pose EUT transmit continuous. 4. Measure the Peak output in the test report. | 1 15.247 Meas Grant was connected to distribute attenuator. The esults for each measure setting and expusly. | the power path loss was easurement. |
| Test Result: | PASS | O HUM | 0,10 |

Test Instruments

| THE HUM | HUM | AUM. | HUM. | AUM. | HUM. | | | | |
|---------------------------|--------------|----------|---------------|---------------------|--------------------|--|--|--|--|
| | RF Test Room | | | | | | | | |
| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due | | | | |
| Spectrum analyzer | Agilent | N9020A | HKE-048 | Dec. 10, 2020 | Dec. 09, 2021 | | | | |
| Power meter | Agilent | E4419B | HKE-085 | Dec. 10, 2020 | Dec. 09, 2021 | | | | |
| Power Sensor | Agilent | E9300A | HKE-086 | Dec. 10, 2020 | Dec. 09, 2021 | | | | |
| RF cable | Times | 1-40G | HKE-034 | Dec. 10, 2020 | Dec. 09, 2021 | | | | |
| RF automatic control unit | Tonscend | JS0806-2 | HKE-060 | Dec. 10, 2020 | Dec. 09, 2021 | | | | |

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



Test Data

| TING | TING | TIME TIME | TING |
|---------|-----------|-------------------------------------|---------------|
| KTES. | HUAK TES. | TX 802.11b Mode | HUAKTES! |
| Test | Frequency | Maximum Peak Conducted Output Power | LIMIT |
| Channel | (MHz) | (dBm) | dBm |
| CH01 | 2412 | 11.13 | 30 |
| CH06 | 2437 | 14.83 | 30 |
| CH11 | 2462 | 11.93 | 30 4144 (155) |
| | | TX 802.11g Mode | |
| CH01 | 2412 | 13.25 | 30 |
| CH06 | 2437 | 12.87 | 30 1100 |
| CH11 | 2462 | 14.61 | 30 |
| 90 | TESTING | TX 802.11n20 Mode | TESTING. |
| CH01 | 2412 | 14.50 | 30 |
| CH06 | 2437 | 14.66 | 30 |
| CH11 | 2462 | 11.92 | 30 |
| | | TX 802.11n40 Mode | 9 |
| CH03 | 2422 | 13.92 | 30 |
| CH06 | 2437 | 12.73 | 30 HUNKTESTIN |
| CH09 | 2452 | 11.91 | 30 |
| | | | |



4.4. EMISSION BANDWIDTH

Test Specification

| Test Requirement: | FCC Part15 C Section 1 | 5.247 (a)(2) | V TESTIN |
|-------------------|---|---|--|
| Test Method: | KDB 558074 | (I) HOLD | MONTH HOME |
| Limit: | >500kHz | AK TESTING | .olo |
| Test Setup: | Spectrum Analyzer | EUT | ME HUAKTES IN |
| Test Mode: | Transmitting mode with r | modulation | |
| Test Procedure: | 1. The testing follows FC 15.247 Meas Guidan 2. Set to the maximum p EUT transmit continu 3. Make the measureme resolution bandwidth Video bandwidth (VB an accurate measure be greater than 500 ke 4. Measure and record the second sec | ce v05r02. bower setting and elements ously. Int with the spectru (RBW) = 100 kHz W) = 300 kHz. In element. The 6dB backHz. | enable the um analyzer's Set the order to make andwidth must |
| Test Result: | PASS | ● HUA | (a) |

Test Instruments

| RF Test Room | | | | | | | | |
|---------------------------|--------------|----------|---------------|---------------------|--------------------|--|--|--|
| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due | | | |
| Spectrum analyzer | Agilent | N9020A | HKE-048 | Dec. 10, 2020 | Dec. 09, 2021 | | | |
| RF cable | Times | 1-40G | HKE-034 | Dec. 10, 2020 | Dec. 09, 2021 | | | |
| RF automatic control unit | Tonscend | JS0806-2 | HKE-060 | Dec. 10, 2020 | Dec. 09, 2021 | | | |

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

AFICATION



Test data

| Test channel | 6dB Emission Bandwidth (MHz) | | | | | |
|--------------|------------------------------|---------|--------------|--------------|--|--|
| | 802.11b | 802.11g | 802.11n(H20) | 802.11n(H40) | | |
| Lowest | 8.56 | 16.40 | 17.28 | 33.44 | | |
| Middle | 8.08 | 16.44 | 17.28 | 33.36 | | |
| Highest | 8.60 | 16.40 | 17.32 | 34.16 | | |
| Limit: | >500k | | | | | |
| Test Result: | PASS | | | | | |

Test plots as follows:

802.11b Modulation

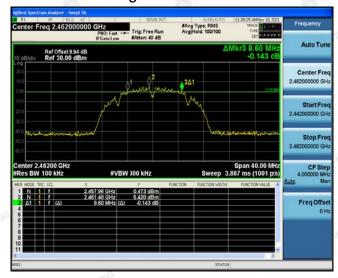
Lowest channel



Middle channel



Highest channel



802.11g Modulation

Lowest channel



Middle channel



Highest channel



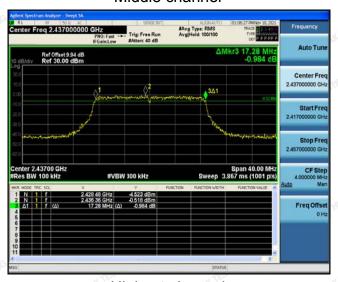


802.11n (HT20) Modulation

Lowest channel



Middle channel



Highest channel



802.11n (HT40) Modulation

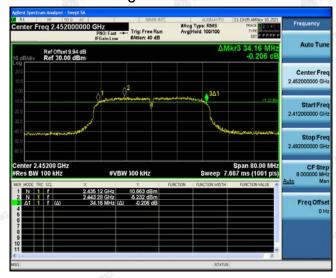
Lowest channel



Middle channel



Highest channel





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 EU1 | | | | |
| Test Mode: | Transmitting mode with modulation | | | | |
| Test Procedure: | The testing follows Measurement procedure 10.2 method PKPSD of FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. 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. Set to the maximum power setting and enable the EUT transmit continuously. 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. Detector = Peak, Sweep time = auto couple. Employ trace averaging (Peak) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. | | | | |
| Test Result: | PASS (METERINA) | | | | |

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,





Test Instruments

| RF Test Room | | | | | | | |
|----------------------------|--------------|----------------------------|---------------|---------------------|--------------------|--|--|
| Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due | | |
| Spectrum analyzer | Agilent | N9020A | HKE-048 | Dec. 10, 2020 | Dec. 09, 2021 | | |
| RF Cable (9KHz-26.5GHz) | Tonscend | 170660 | N/A | Dec. 10, 2020 | Dec. 09, 2021 | | |
| RF automatic control unit | Tonscend | JS0806-2 | HKE-060 | Dec. 10, 2020 | Dec. 09, 2021 | | |
| 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).



Test data

| Channel | Result (dBm/30kHz) | Result (dBm/3kHz) | | |
|-----------------|---|---|--|--|
| Lowest | -2.56 | -12.56 | | |
| Middle | 0.52 | -9.48 | | |
| Highest | 0.1 | -9.9 | | |
| Lowest | -3.9 | -13.9 | | |
| Middle | -3.8 | -13.8 | | |
| Highest | -3.79 | -13.79 | | |
| Lowest | -4.37 | -14.37 | | |
| Middle | -4.5 | -14.5 | | |
| Highest | -4.44 | -14.44 | | |
| Lowest | -6.77 | -16.77 | | |
| Middle | -8.26 | -18.26 | | |
| Highest | -8.38 | -18.38 | | |
| 3kHz)= PSD test | t result (dBm/30kHz)-10 | | | |
| | | | | |
| PASS | | | | |
| | Lowest Middle Highest | Lowest -2.56 Middle 0.52 Highest 0.1 Lowest -3.9 Middle -3.8 Highest -3.79 Lowest -4.37 Middle -4.5 Highest -4.44 Lowest -6.77 Middle -8.26 Highest -8.38 8kHz)= PSD test result (dBm/30kHz)-10 | | |

Test plots as follows:

802.11b Modulation

Lowest channel



Middle channel

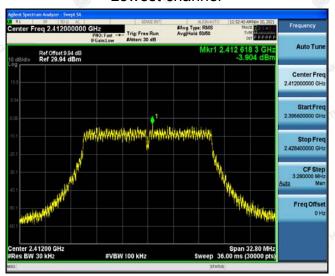


Highest channel

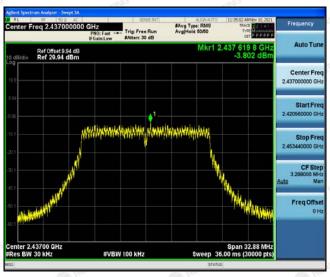


802.11g Modulation

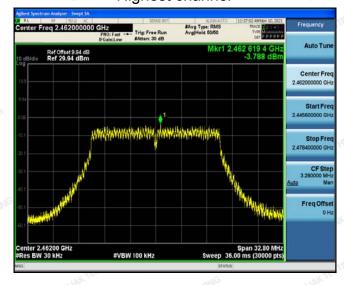
Lowest channel



Middle channel

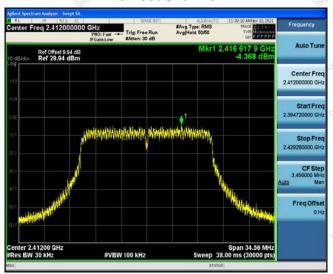


Highest channel



802.11n (HT20) Modulation

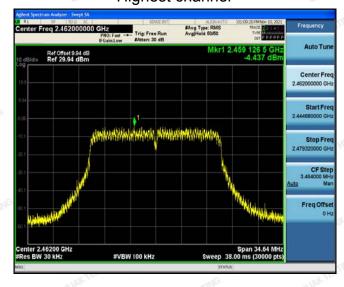
Lowest channel



Middle channel

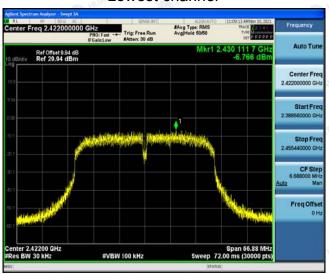


Highest channel

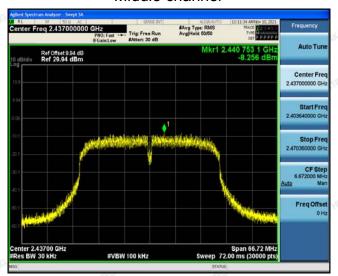


802.11n (HT40) Modulation

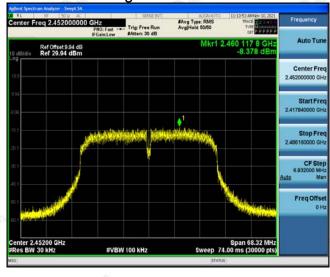
Lowest channel



Middle channel







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