

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE170704602

FCC REPORT

(WIFI)

Applicant: Baicells Technologies Co., Ltd.

Address of Applicant:

3F, Hui Yuan Development Building, No.1 Shangdi Information

Industry Base, Haidian Dist., Beijing, China

Equipment Under Test (EUT)

Product Name: LTE Outdoor CPE

Model No.: EG7035L-M1

Trade mark: BaiCells

FCC ID: 2AG32EG7035LM1

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 05 Jul., 2017

Date of Test: 05 Jul., 2017 to 11 Jul., 2017

Date of report issued: 11 Jul., 2017

Test Result: PASS*

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

^{*} In the configuration tested, the EUT complied with the standards specified above.





Version

Reviewed by:

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | 11 Jul., 2017 | Original |
| | | |
| | | |
| | | |
| | | |

Cavey (hen Date: Test Engineer Tested by: 11 Jul., 2017

11 Jul., 2017

Project Engineer



3 Contents

| | | | Page |
|---|-------|------------------------------|------|
| 1 | COV | ER PAGE | 1 |
| 2 | VER | SION | 2 |
| 3 | | TENTS | |
| 4 | | SUMMARY | |
| - | _ | | |
| 5 | GEN | ERAL INFORMATION | 5 |
| | 5.1 | CLIENT INFORMATION | 5 |
| | 5.2 | GENERAL DESCRIPTION OF E.U.T | |
| | 5.3 | TEST ENVIRONMENT AND MODE | |
| | 5.4 | MEASUREMENT UNCERTAINTY | |
| | 5.5 | LABORATORY FACILITY | 7 |
| | 5.6 | LABORATORY LOCATION | 8 |
| | 5.7 | TEST INSTRUMENTS LIST | 9 |
| 6 | TEST | RESULTS AND MEASUREMENT DATA | 10 |
| | 6.1 | Antenna requirement: | 10 |
| | 6.2 | CONDUCTED EMISSION | 11 |
| | 6.3 | CONDUCTED OUTPUT POWER | 14 |
| | 6.4 | OCCUPY BANDWIDTH | 19 |
| | 6.5 | POWER SPECTRAL DENSITY | 28 |
| | 6.6 | BAND EDGE | 33 |
| | 6.6.1 | Conducted Emission Method | 33 |
| | 6.6.2 | Radiated Emission Method | 36 |
| | 6.7 | Spurious Emission | 53 |
| | 6.7.1 | Conducted Emission Method | 53 |
| | 6.7.2 | Radiated Emission Method | 62 |
| 7 | TEST | 「 SETUP PHOTO | 70 |
| 8 | EUT | CONSTRUCTIONAL DETAILS | 71 |





4 Test Summary

| Test Item | Section in CFR 47 | Result |
|---|-------------------|--------|
| Antenna requirement | 15.203/15.247 (c) | Pass |
| AC Power Line Conducted Emission | 15.207 | Pass |
| Conducted Peak Output Power | 15.247 (b)(3) | Pass |
| 6dB Emission Bandwidth 99% Occupied 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 |

Pass: The EUT complies with the essential requirements in the standard.





5 General Information

5.1 Client Information

| Applicant: | Baicells Technologies Co., Ltd. | |
|--------------------------|--|--|
| Address of Applicant: | 3F, Hui Yuan Development Building, No.1 Shangdi Information Industry Base, Haidian Dist., Beijing, China | |
| Manufacturer: | Baicells Technologies Co., Ltd. | |
| Address of Manufacturer: | 3F, Hui Yuan Development Building, No.1 Shangdi Information Industry Base, Haidian Dist., Beijing, China | |

5.2 General Description of E.U.T.

| Product Name: | LTE Outdoor CPE |
|--|--|
| Model No.: | EG7035L-M1 |
| Operation Frequency: | 2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40)) |
| Channel numbers: | 11 for 802.11b/802.11g/802.11n(H20) 7 for 802.11n(H40) |
| Channel separation: | 5MHz |
| Modulation technology: (IEEE 802.11b) | Direct Sequence Spread Spectrum (DSSS) |
| Modulation technology: (IEEE 802.11g/802.11n) | Orthogonal Frequency Division Multiplexing(OFDM) |
| Data speed (IEEE 802.11b): | 1Mbps, 2Mbps, 5.5Mbps, 11Mbps |
| Data speed (IEEE 802.11g): | 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps |
| Data speed (IEEE 802.11n): | Up to 150Mbps |
| Antenna Type: | Internal Antenna |
| Antenna gain: | 0dBi |
| AC adapter: | Model: G0549A-240-050 Input: AC100-240V 50/60Hz 0.5 A Output: DC 24V, 500 mA |
| Power supply: | DC 24V |





| Operation Frequency each of channel For 802.11b/g/n(H20) | | | | | | | |
|--|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2412MHz | 4 | 2427MHz | 7 | 2442MHz | 10 | 2457MHz |
| 2 | 2417MHz | 5 | 2432MHz | 8 | 2447MHz | 11 | 2462MHz |
| 3 | 2422MHz | 6 | 2437MHz | 9 | 2452MHz | | |

| Operation Frequency each of channel For 802.11n(H40) | | | | | | | |
|--|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| | | 4 | 2427MHz | 7 | 2442MHz | | |
| | | 5 | 2432MHz | 8 | 2447MHz | | |
| 3 | 2422MHz | 6 | 2437MHz | 9 | 2452MHz | | |

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:

802.11b/802.11g/802.11n (H20)

| Channel | Frequency |
|---------------------|-----------|
| The lowest channel | 2412MHz |
| The middle channel | 2437MHz |
| The Highest channel | 2462MHz |

802.11n (H40)

| Channel | Frequency |
|---------------------|-----------|
| The lowest channel | 2422MHz |
| The middle channel | 2437MHz |
| The Highest channel | 2452MHz |



5.3 Test environment and mode

| Operating Environment: | |
|------------------------|---|
| Temperature: | 24.0 °C |
| Humidity: | 54 % RH |
| Atmospheric Pressure: | 1010 mbar |
| Test mode: | |
| Operation mode | Keep the EUT in continuous transmitting with modulation |

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.

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

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

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

Final Test Mode:

According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11n(H20) and 13.5 Mbps for 802.11n(H40). Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

5.4 Measurement Uncertainty

| Items | Expanded Uncertainty (Confidence of 95%) |
|-------------------------------------|--|
| Conducted Emission (9kHz ~ 30MHz) | 2.14 dB (k=2) |
| Radiated Emission (9kHz ~ 30MHz) | 4.24 dB (k=2) |
| Radiated Emission (30MHz ~ 1000MHz) | 4.35 dB (k=2) |
| Radiated Emission (1GHz ~ 18GHz) | 4.44 dB (k=2) |
| Radiated Emission (18GHz ~ 26.5GHz) | 4.56 dB (k=2) |

5.5 Laboratory Facility

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

• FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

• IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

Report No: CCISE170704602



Report No: CCISE170704602

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Website: http://www.ccis-cb.com

Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info@ccis-cb.com, Website: www.ccis-cb.com





5.7 Test Instruments list

| Radiated Emission: | | | | | | |
|--------------------|---------------------------------|-----------------------------------|-----------------------------|------------------|-------------------------|-----------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| 1 | 3m SAC | SAEMC | 9(L)*6(W)* 6(H) | CCIS0001 | 08-23-2014 | 08-22-2017 |
| 2 | BiConiLog Antenna | SCHWARZBECK | VULB9163 | CCIS0005 | 02-25-2017 | 02-24-2018 |
| 3 | Horn Antenna | SCHWARZBECK | BBHA9120D | CCIS0006 | 02-25-2017 | 02-24-2018 |
| 4 | Pre-amplifier (10kHz-1.3GHz) | HP | 8447D | CCIS0003 | 02-25-2017 | 02-24-2018 |
| 5 | Pre-amplifier (1GHz-18GHz) | Compliance Direction Systems Inc. | PAP-1G18 | CCIS0011 | 02-25-2017 | 02-24-2018 |
| 6 | Pre-amplifier (18-26GHz) | Rohde & Schwarz | AFS33-18002 650-30-8P-44 | GTS218 | 02-25-2017 | 02-24-2018 |
| 7 | Horn Antenna | ETS-LINDGREN | 3160 | GTS217 | 02-25-2017 | 02-24-2018 |
| 8 | Spectrum analyzer 9k-30GHz | Rohde & Schwarz | FSP30 | CCIS0023 | 02-25-2017 | 02-24-2018 |
| 9 | EMI Test Receiver | Rohde & Schwarz | ESRP7 | CCIS0167 | 02-25-2017 | 02-24-2018 |
| 10 | Loop antenna | Laplace instrument | RF300 | EMC0701 | 02-25-2017 | 02-24-2018 |
| 11 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 12 | Coaxial Cable | N/A | N/A | CCIS0018 | 02-25-2017 | 02-24-2018 |
| 13 | Coaxial Cable | N/A | N/A | CCIS0020 | 02-25-2017 | 02-24-2018 |

| Cond | Conducted Emission: | | | | | | |
|------|---------------------|--------------------|-----------------------|------------------|-------------------------|-----------------------------|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) | |
| 1 | Shielding Room | ZhongShuo Electron | 11.0(L)x4.0(W)x3.0(H) | CCIS0061 | 08-23-2014 | 08-22-2017 | |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESCI | CCIS0002 | 02-25-2017 | 02-24-2018 | |
| 3 | LISN | CHASE | MN2050D | CCIS0074 | 02-25-2017 | 02-24-2018 | |
| 4 | Coaxial Cable | CCIS | N/A | CCIS0086 | 02-25-2017 | 02-24-2018 | |
| 5 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A | |



6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement: FCC Part 15 C Section 15.203 /247(c)

15.203 requirement:

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

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The WiFi antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 0 dBi.







6.2 Conducted Emission

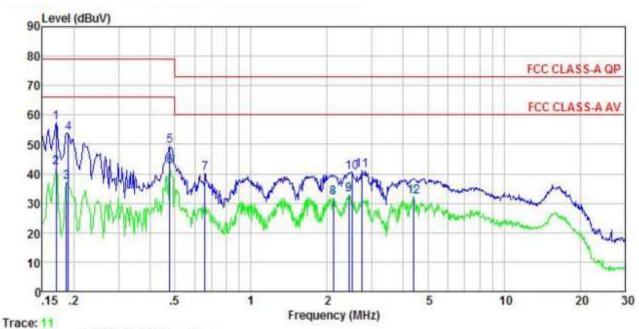
| RBW=9 kHz, VBW=30 kHz | | | | |
|--|--|--|--|--|
| | | | | |
| verage | | | | |
| 6 to 46* | | | | |
| 46 | | | | |
| 50 | | | | |
| | | | | |
| ver through a poides a prides a prides a prides a pride through a with 500hm at setup and a prelative st be changed prent. | | | | |
| AC power | | | | |
| | | | | |
| | | | | |
| | | | | |
| A | | | | |





Measurement Data:

Neutral:



Site

: CCIS Shielding Room : FCC CLASS-A QP LISN NEUTRAL : LTE Outdoor CPE Condition

EUT : EG7035L-M1 Model Test Mode : WIFI mode

Power Rating: AC 120V/60Hz Environment: Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Carey

| emark | - | Read | LISN | Cable | | Limit | | |
|---------------------------------|-------|-------|--------|-------|-------|-------|--------|---------|
| | Freq | Teve1 | Factor | Loss | Level | Line | Limit | Kemark |
| | MHz | dBuV | ₫₿ | ₫B | dBu∛ | dBuV | ₫B | |
| 1 | 0.170 | 47.07 | -0.36 | 10.77 | 57.48 | 79.00 | -21.52 | QP |
| 2 | 0.170 | 31.61 | -0.36 | 10.77 | 42.02 | 66.00 | -23.98 | Average |
| 1 2 3 4 5 6 7 | 0.186 | 26.72 | -0.35 | 10.76 | 37.13 | | | Average |
| 4 | 0.190 | 43.53 | -0.35 | 10.76 | 53.94 | 79.00 | -25.06 | QP |
| 5 | 0.479 | 39.10 | -0.30 | 10.75 | 49.55 | 79.00 | -29.45 | QP |
| 6 | 0.479 | 32.22 | -0.30 | 10.75 | 42.67 | 66.00 | -23.33 | Average |
| 7 | 0.658 | 29.75 | -0.30 | 10.77 | 40.22 | | -32.78 | |
| 8 | 2.121 | 21.29 | | 10.95 | 31.99 | 60.00 | -28.01 | Average |
| 8 9 10 | 2.435 | 22.15 | -0.23 | 10.94 | 32.86 | 60.00 | -27.14 | Average |
| 10 | 2,500 | 29.89 | -0.23 | 10.94 | 40.60 | 73.00 | -32.40 | QP |
| 11 | 2.736 | 30.35 | -0.21 | 10.93 | 41.07 | 73.00 | -31.93 | QP |
| 12 | 4.407 | 21.49 | -0.21 | 10.87 | 32.15 | 60.00 | -27.85 | Average |

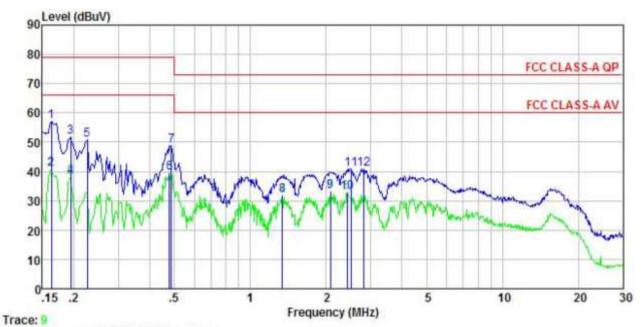
Notes:

- 1. An initial pre-scan was performed on the live and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level = Receiver Read level + LISN Factor + Cable Loss.





Line:



Site : CCIS Shielding Room Condition : FCC CLASS-A QP LISN LINE EUT : LTE Outdoor CPE

EUT : LTE Outdoor (
Model : EG7035L-M1
Test Mode : WIFI mode
Power Rating : AC 120V/60Hz

Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Carey

Remark

| /cmark | Freq | Read Level | | Cable Loss | | Limit Line | | Remark |
|---|-------|---------------|-------|---------------|-------|---------------|--------|---------|
| - | MHz | dBu₹ | dB | ₫B | dBu₹ | dBu₹ | d₿ | |
| 1 | 0.162 | 47.04 | -0.55 | 10.77 | 57.26 | 79.00 | -21.74 | QP |
| 2 | 0.162 | 30.62 | -0.55 | 10.77 | 40.84 | 66.00 | -25.16 | Average |
| 3 | 0.194 | 41.43 | -0.52 | 10.76 | 51.67 | 79.00 | -27.33 | QP |
| 1 2 3 4 5 6 7 8 9 | 0.194 | 27.89 | -0.52 | 10.76 | 38.13 | 66.00 | -27.87 | Average |
| 5 | 0.226 | 40.52 | -0.52 | 10.75 | 50.75 | 79.00 | -28.25 | QP |
| 6 | 0.479 | 29.27 | -0.49 | 10.75 | 39.53 | 66.00 | -26.47 | Average |
| 7 | 0.486 | 38.41 | -0.49 | 10.76 | 48.68 | 79.00 | -30.32 | QP |
| 8 | 1.338 | 21.54 | -0.46 | 10.91 | 31.99 | 60.00 | -28.01 | Average |
| 9 | 2.077 | 22.57 | -0.43 | 10.96 | 33.10 | | | Average |
| 10 | 2.422 | 22.27 | -0.43 | 10.94 | 32.78 | 60.00 | -27.22 | Average |
| 11 | 2.513 | 30.50 | -0.44 | 10.94 | 41.00 | 73.00 | -32.00 | QP |
| 12 | 2.824 | 30.41 | -0.44 | 10.93 | 40.90 | 73.00 | -32.10 | QP |

Notes:

- 1. An initial pre-scan was performed on the live and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



6.3 Conducted Output Power

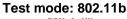
| Test Requirement: | FCC Part 15 C Section 15.247 (b)(3) | | | | |
|-------------------|--|--|--|--|--|
| Test Method: | ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 9.2.2.2 | | | | |
| Limit: | 30dBm | | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | |
| Test Instruments: | Refer to section 5.6 for details | | | | |
| Test mode: | Refer to section 5.3 for details | | | | |
| Test results: | Passed | | | | |

Measurement Data:

| Test CH | Ма | aximum Conduct | Limit(dBm) Result | | | |
|---------|---------|----------------|-------------------|--------------|-------------|--------|
| 1681 CH | 802.11b | 802.11g | 802.11n(H20) | 802.11n(H40) | Limit(dDin) | Nesult |
| Lowest | 11.10 | 11.87 | 11.95 | 11.14 | | |
| Middle | 10.32 | 11.12 | 11.05 | 10.75 | 30.00 | Pass |
| Highest | 9.56 | 10.34 | 10.50 | 10.35 | | |

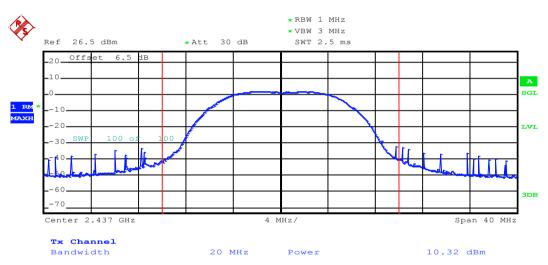


Test plot as follows:

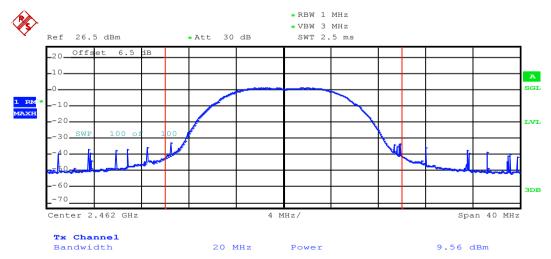




Lowest channel

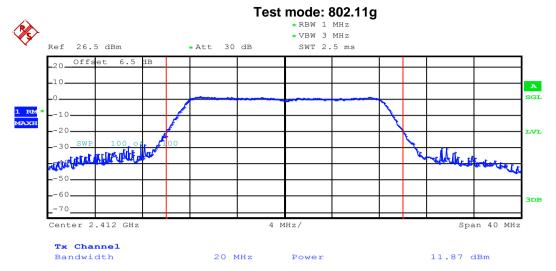


Middle channel

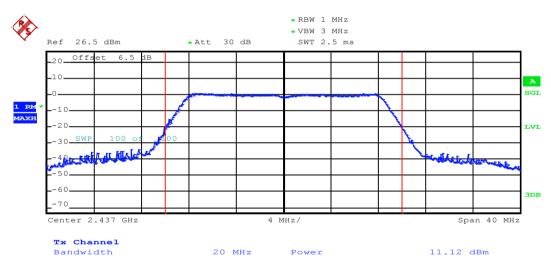


Highest channel

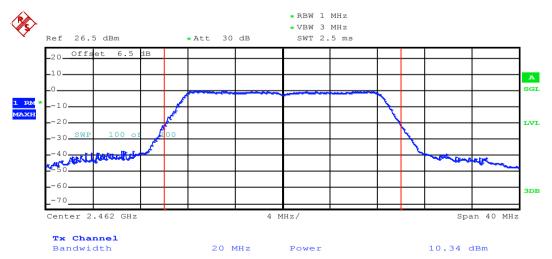




Lowest channel

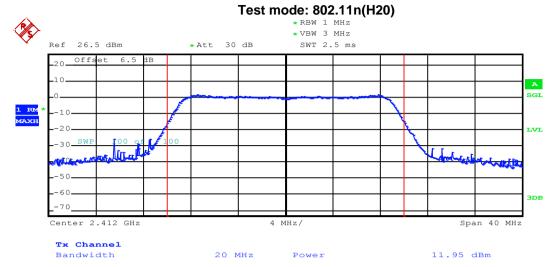


Middle channel

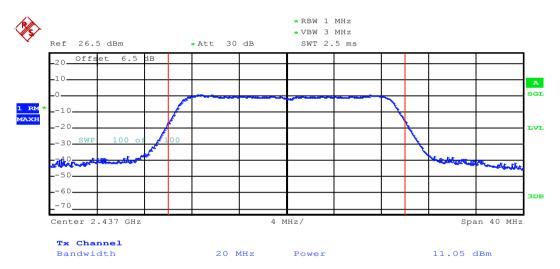


Highest channel

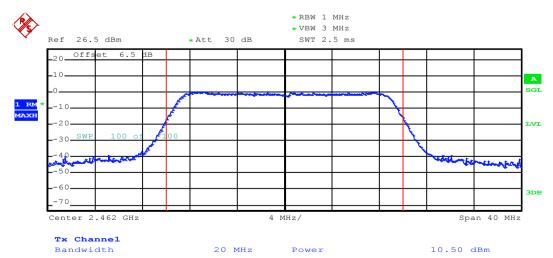




Lowest channel

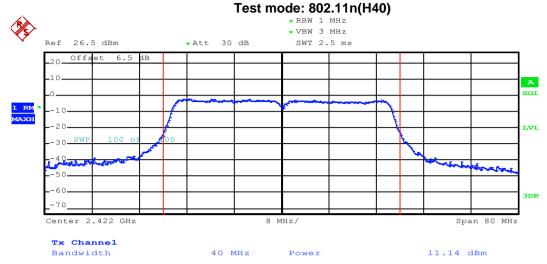


Middle channel

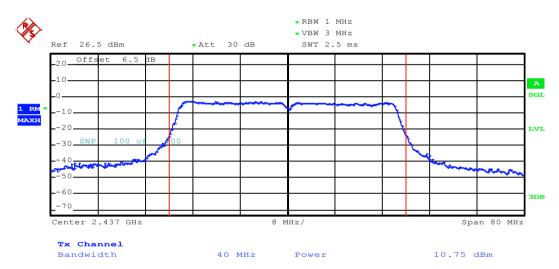


Highest channel

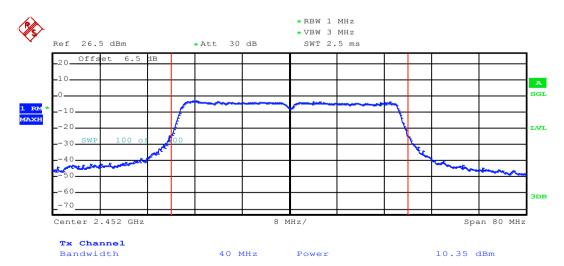




Lowest channel



Middle channel



Highest channel





6.4 Occupy Bandwidth

| Test Requirement: | FCC Part 15 C Section 15.247 (a)(2) | | | | |
|-------------------|---|--|--|--|--|
| Test Method: | ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 8.1 | | | | |
| Limit: | >500kHz | | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | |
| Test Instruments: | Refer to section 5.6 for details | | | | |
| Test mode: | Refer to section 5.3 for details | | | | |
| Test results: | Passed | | | | |

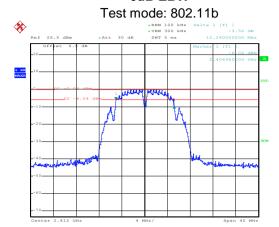
Measurement Data:

| Test CH | | 6dB Emission | Bandwidth (MHz) |) | Limit(kHz) Result | | | |
|----------|---------|--------------|-----------------|--------------|-------------------|--------|--|--|
| 1631 011 | 802.11b | 802.11g | 802.11n(H20) | 802.11n(H40) | Liiiii(Ki iz) | Nesuit | | |
| Lowest | 10.24 | 16.56 | 17.52 | 36.32 | | | | |
| Middle | 10.24 | 16.52 | 17.52 | 36.52 | >500 | Pass | | |
| Highest | 10.24 | 16.56 | 17.52 | 36.56 | | | | |
| Test CH | | 99% Occupy | Limit(kHz) | Result | | | | |
| 1031 011 | 802.11b | 802.11g | 802.11n(H20) | 802.11n(H40) | Lillit(Kl IZ) | resuit | | |
| Lowest | 12.24 | 16.56 | 17.68 | 36.32 | | | | |
| Middle | 12.24 | 16.56 | 17.68 | 36.32 | N/A | N/A | | |
| Highest | 12.24 | 16.56 | 17.68 | 36.32 | | | | |



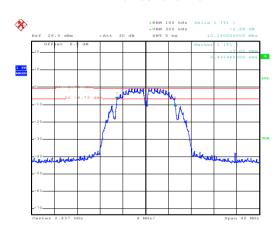
Test plot as follows:

6dB EBW



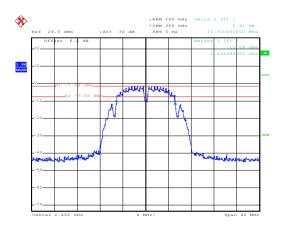
Date: 2.JUL.2017 10:13:22

Lowest channel



Date: 2.JUL.2017 10:12:10

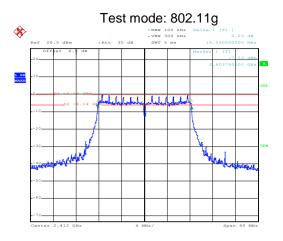
Middle channel



Date: 2.JUL.2017 10:06:59

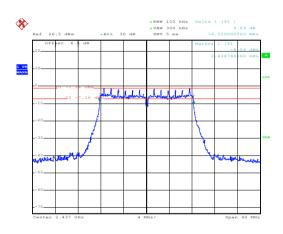
Highest channel





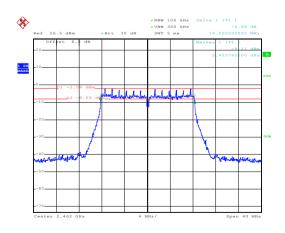
Date: 2.JUL.2017 10:15:46

Lowest channel



Date: 2.JUL.2017 10:17:28

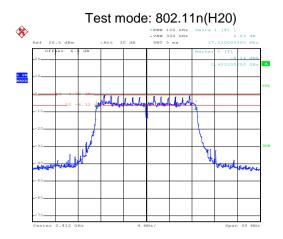
Middle channel



Date: 2.JUL.2017 10:18:23

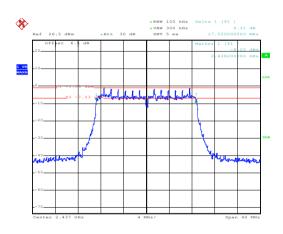
Highest channel





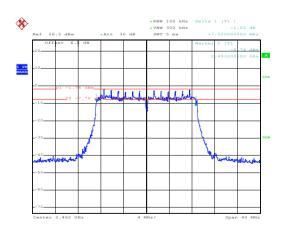
Date: 2.JUL.2017 10:46:07

Lowest channel



Date: 2.JUL.2017 10:44:19

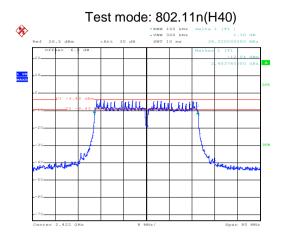
Middle channel



Date: 2.JUL.2017 10:43:13

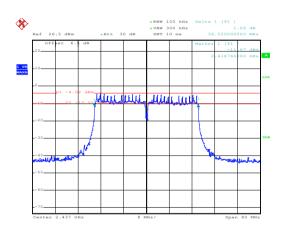
Highest channel





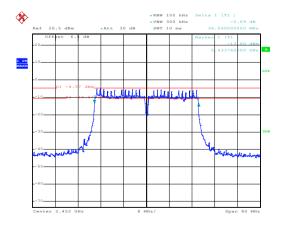
Date: 2.JUL.2017 10:51:43

Lowest channel



Date: 2.JUL.2017 10:50:37

Middle channel

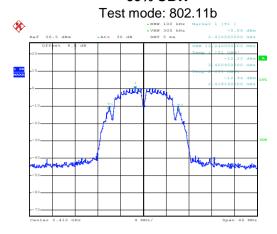


Date: 2.JUL.2017 10:52:56

Highest channel

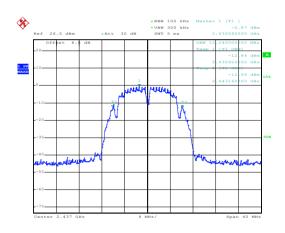






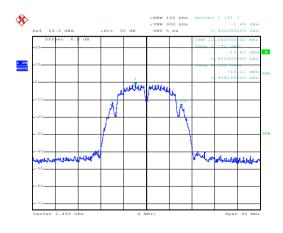
Date: 2.JUL.2017 10:04:29

Lowest channel



Date: 2.JUL.2017 10:05:01

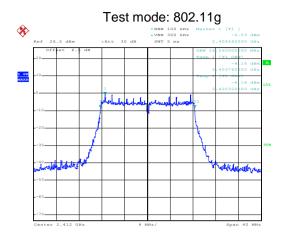
Middle channel



Date: 2.JUL.2017 10:05:30

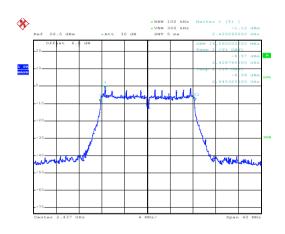
Highest channel





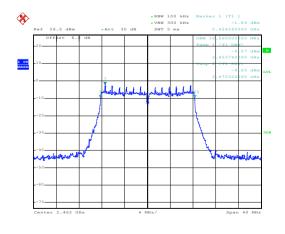
Date: 2.JUL.2017 10:34:08

Lowest channel



Date: 2.JUL.2017 10:33:33

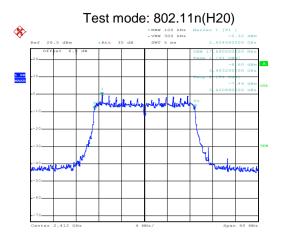
Middle channel



Date: 2.JUL.2017 10:20:05

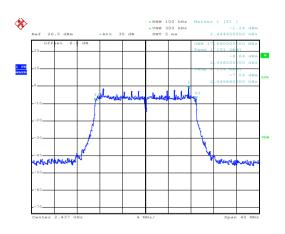
Highest channel





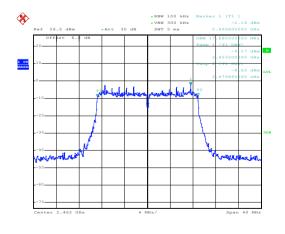
Date: 2.JUL.2017 10:41:20

Lowest channel



Date: 2.JUL.2017 10:41:41

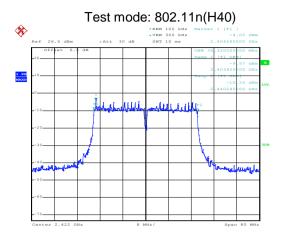
Middle channel



Date: 2.JUL.2017 10:42:35

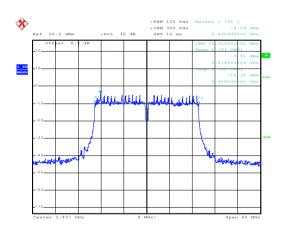
Highest channel





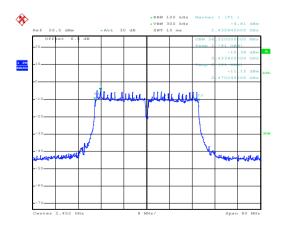
Date: 2.JUL.2017 10:55:12

Lowest channel



Date: 2.JUL.2017 10:54:52

Middle channel



Date: 2.JUL.2017 10:53:46

Highest channel



6.5 Power Spectral Density

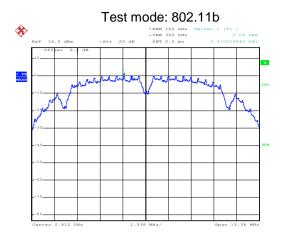
| Test Requirement: | FCC Part 15 C Section 15.247 (e) | | | | |
|-------------------|---|--|--|--|--|
| Test Method: | ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 10.2 | | | | |
| Limit: | 8dBm | | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | |
| Test Instruments: | Refer to section 5.6 for details | | | | |
| Test mode: | Refer to section 5.3 for details | | | | |
| Test results: | Passed | | | | |

Measurement Data:

| | medodrement bata. | | | | | | |
|---------|-------------------|------------|--------------------|--------------|-------------------|--------|------|
| Test CH | | Power Spec | ctral Density (dBm |) | Limit(dBm) Result | | |
| | 802.11b | 802.11g | 802.11n(H20) | 802.11n(H40) | Elithi (dBill) | Nesuit | |
| | Lowest | 0.09 | 0.48 | 0.14 | -3.70 | | |
| | Middle | -0.70 | -1.37 | -0.57 | -3.43 | 8.00 | Pass |
| | Highest | -1.38 | -0.92 | -1.38 | -4.32 | | |

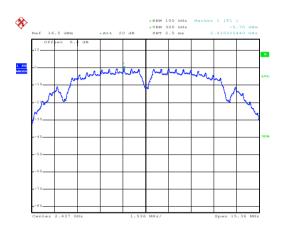


Test plot as follows:



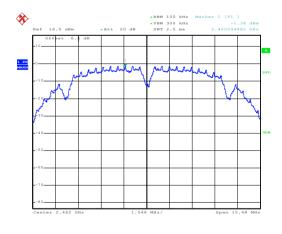
Date: 2.JUL.2017 15:53:02

Lowest channel



Date: 2.JUL.2017 15:57:46

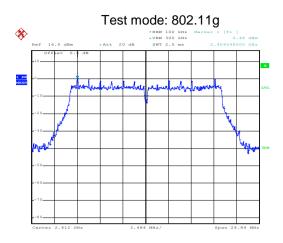
Middle channel



Date: 2.JUL.2017 15:58:27

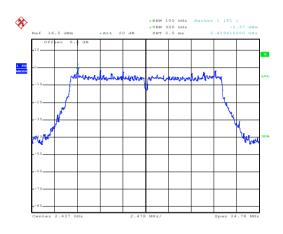
Highest channel





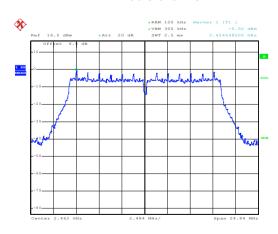
Date: 2.JUL.2017 16:00:32

Lowest channel



Date: 2.JUL.2017 15:59:54

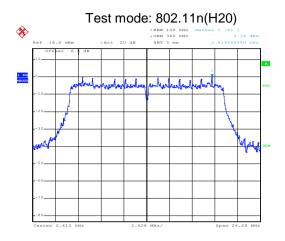
Middle channel



Date: 2.JUL.2017 15:59:05

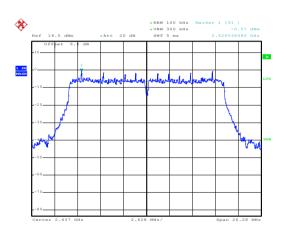
Highest channel





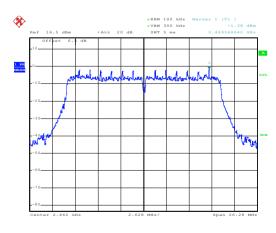
Date: 2.JUL.2017 16:00:57

Lowest channel



Date: 2.JUL.2017 16:01:42

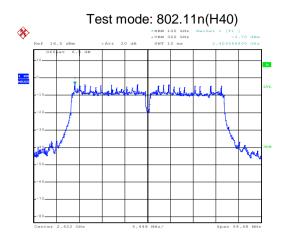
Middle channel



Date: 2.JUL.2017 16:02:05

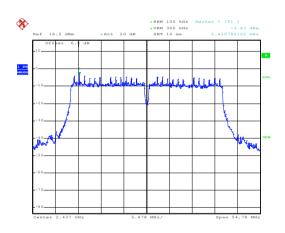
Highest channel





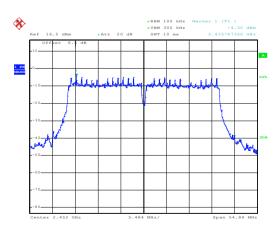
Date: 2.JUL.2017 16:03:53

Lowest channel



Date: 2.JUL.2017 16:03:16

Middle channel



Date: 2.JUL.2017 16:02:51

Highest channel



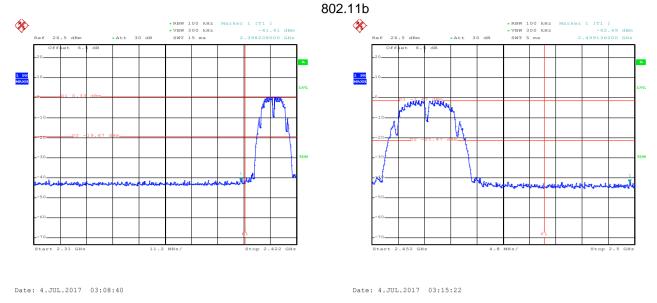
6.6 Band Edge

6.6.1 Conducted Emission Method

| Test Requirement: | FCC Part 15 C Section 15.247 (d) | | | |
|-------------------|---|--|--|--|
| • | * * * | | | |
| Test Method: | ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 13 | | | |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. | | | |
| Test setup: | | | | |
| | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | |
| Test Instruments: | Refer to section 5.6 for details | | | |
| Test mode: | Refer to section 5.3 for details | | | |
| Test results: | Passed | | | |

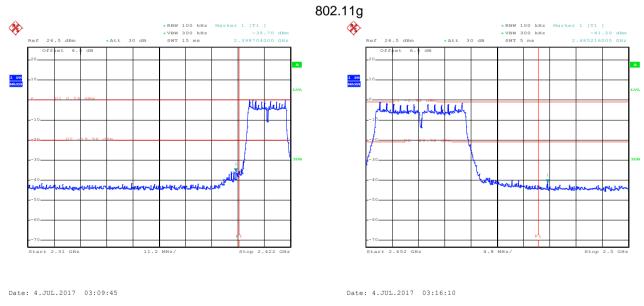


Test plot as follows:



Lowest channel

Highest channel

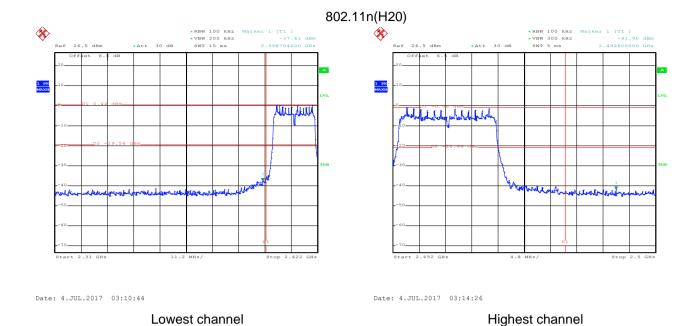


Lowest channel

Highest channel







100 MHz Marker 1 [71]

**NAM 100 MHz Marker 1 [71]

**VAM 300 MHz Mark

Lowest channel Highest channel



6.6.2 Radiated Emission Method

| Te | est Requirement: | FCC Part 15 C Section 15.209 and 15.205 | | | | | | | | |
|-----|---|---|------|-----------------------------------|----------------------------|-----------|-------------|---------------|--|--|
| Te | est Method: | ANSI C63.10: 2013 and KDB558074 D01 DTS Meas Guidance v04 section 12.1 | | | | | | | | |
| Te | est Frequency Range: | 2.3GHz to 2.5GHz | | | | | | | | |
| Te | est site: | Measurement Distance: 3m | | | | | | | | |
| R | eceiver setup: | Frequency Dete | | | | | BW Remark | | | |
| 1 (| occiver cotap. | Above 1GHz | Peak | | 1MHz | 3MHz | | Peak Value | | |
| | | | RMS | 6 | 1MHz | 31 | ИHz | Average Value | | |
| Liı | Limit: | Frequency | | Lin | Limit (dBuV/m @3m) | | | Remark | | |
| | | Above 1GHz 1. The EUT was place | | 54.00 Average Value | | | | | | |
| | | | | 74.00 ed on the top of a rotating | | | Peak Value | | | |
| | est Procedure: | the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. | | | | | | | | |
| Te | est setup: | | AE E | ·, W | 3m Ground Reference Plane | n Antenna | Antenna Tow | Ner Ner | | |
| Te | est Instruments: | Refer to section 5.6 for details | | | | | | | | |
| | Test mode: Refer to section 5.3 for details | | | | | | | | | |
| Te | Test results: Passed | | | | | | | | | |
| | | | | | | | | | | |

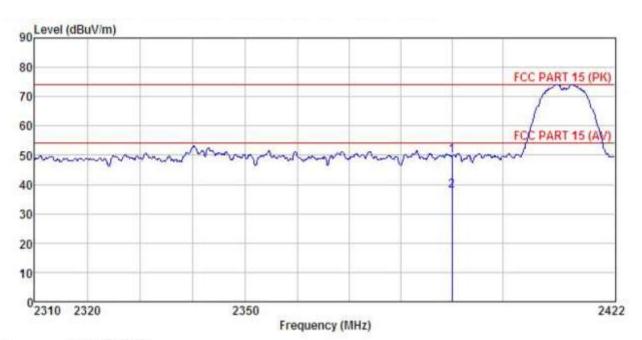




802.11b

Test channel: Lowest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL Condition

: LTE Outdoor CPE EUT : EG7035L-M1 Model : 802.11-B-L mode Test mode Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Carey

Remark

| · d | | Read | Antenna | Cable | Preamp | | Limit | Over | |
|-----|----------------------|------|----------------|-------|------------|----------------|--------|-------|-----------------|
| | Freq | | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | MHz | dBu∇ | | dB | <u>dB</u> | dBuV/m | dBu∜/m | −−−dB | |
| | 2390.000 2390.000 | | 25.45 25.45 | | (ZOOLESE) | 49.90 37.70 | | | Peak Average |

Remark:

1 2

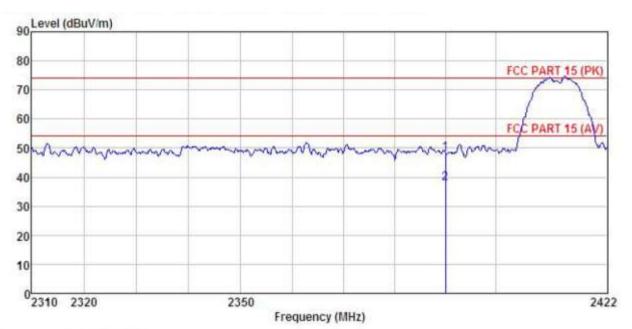
- Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366

Page 37 of 71







Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL : LTE Outdoor CPE Condition

EUT Model : EG7035L-M1 Test mode : 802.11-B-L mode Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni:55%

Test Engineer: Carey

Rema

| a | rk : | | | | | | | | |
|---|----------------------|------|-------------------|----|----|----------------|---------------|---------------|-----------------|
| | Freq | | Antenna Factor | | | Level | Limit Line | Over Limit | Remark |
| | MHz | dBuV | dB/m | ₫₿ | ₫B | dBuV/m | dBuV/m | ₫B | |
| | 2390.000 2390.000 | | | | | 48.12 37.83 | | | Peak Average |

Remark:

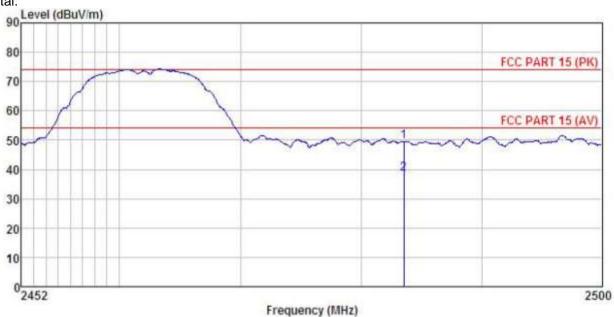
- Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.





Test channel: Highest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL : LTE Outdoor CPE Condition

EUT : EG7035L-M1 Model Test mode : 802.11-B-H mode
Power Rating : AC120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey Remark

| 3) | CR : | | | | | | | | |
|----|----------|------|-------------------|----|----------------|--------|--------|-----------|--------|
| | Freq | | Antenna Factor | | | | | | |
| | MHz | dBuV | dB/m | ₫B | dB | dBu∀/m | dBu∀/m | <u>dB</u> | ****** |
| | 2483.500 | | 25.66 25.66 | | 2 / T 50 T / T | | | | Peak |

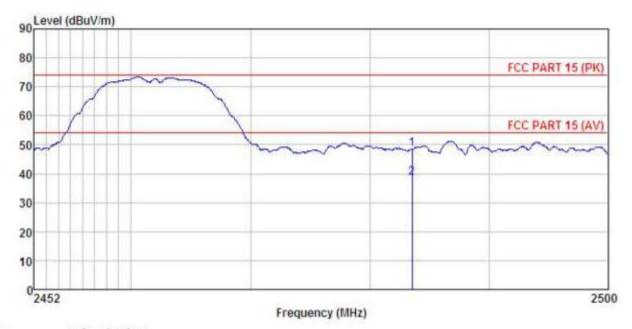
Remark:

- Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366







Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL : LTE Outdoor CPE Condition EUT

: EG7035L-M1 Model Test mode : 802.11-B-H mode Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Carey

Remark

| Freq | | Antenna Factor | | | | | | |
|----------|------|-------------------|----|-----------|--------|--------|-----------|------|
| MHz | dBu⊽ | <u>−</u> dB/m | dB | <u>dB</u> | dBuV/m | dBuV/m | <u>dB</u> | |
| 2483,500 | | | | | | | | Peak |

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.

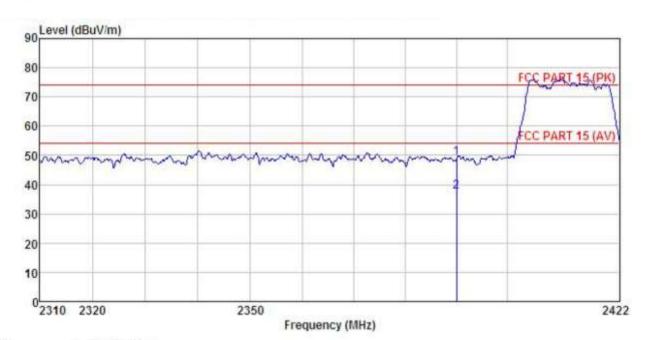




802.11g

Test channel: Lowest

Horizontal:



Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL Condition

: LTE Outdoor CPE EUT : EG7035L-M1 Model : 802.11-G-L mode Test mode

Power Rating : AC120V/60Hz Environment : Temp:25.5°C Test Engineer: Carey Huni: 55%

Remark

| SMal | | Read | Antenna | Cable | Preamp | | Limit | Over | |
|------|----------------------|------|---------|-----------|--------|----------------|--------|-------|--------|
| | Freq | | Factor | | | | Line | Limit | Remark |
| | MHz | dBuV | dB/m | <u>dB</u> | ₫B | dBuV/m | dBuV/m | dB | |
| 1 2 | 2390.000 2390.000 | | | | | 49.17 37.68 | | | |

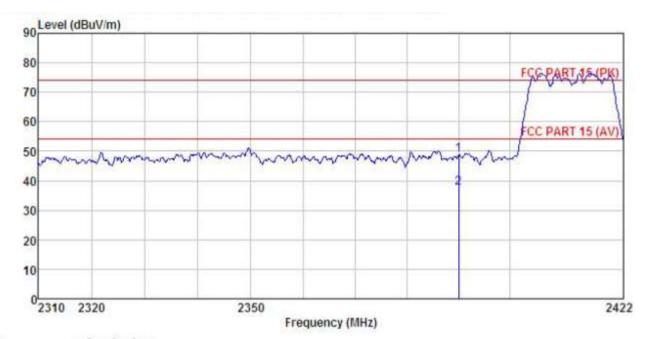
Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366







Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL Condition

EUT : LTE Outdoor CPE : EG7035L-M1 Model

Test mode : 802.11-G-L mode Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Carey Remark

| | Freq | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Remark |
|-----|----------------------|---------------|-------------------|---------------|------------------|--------|---------------|---------------|--------|
| | MHz | dBu∀ | dB/m | ₫B | ₫B | dBuV/m | dBuV/m | ₫B | |
| 1 2 | 2390,000 2390,000 | | | | | | | | |

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.

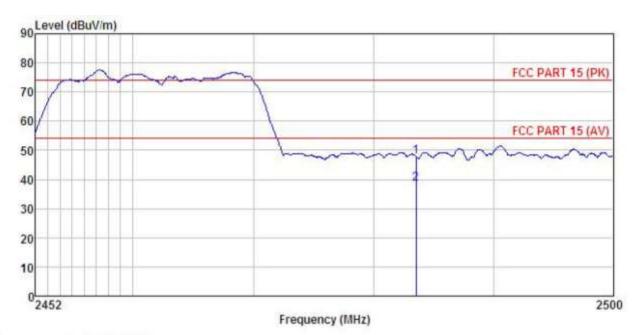
Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366





Test channel: Highest

Horizontal:



Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL

: LTE Outdoor CPE EUT Model : EG7035L-M1

Test mode : 802.11-G-H mode Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Test Engineer: Carey Huni:55%

Remark

| I.I. | к : | Read | Ant enna | Cable | Preamp | | Limit | Over | |
|------|----------|-------|----------|-------|--------|--------|--------|-------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | MHz | dBu₹ | dB/m | ₫B | ₫B | dBuV/m | dBuV/m | dB | |
| | 2483.500 | | | | | | | | |

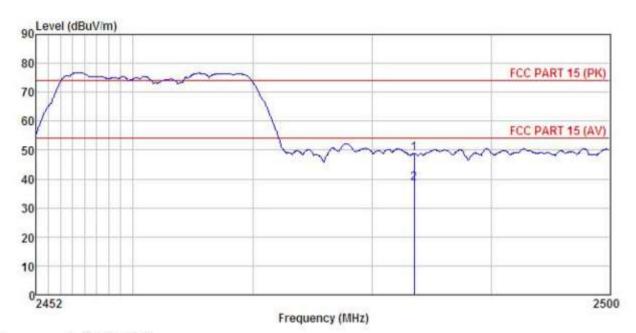
Remark:

- Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366







Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL EUT : LTE Outdoor CPE

EUT : LTE Outdoor CPE
Model : EG7035L-M1
Test mode : 802.11-G-H mode
Power Rating : AC120V/60Hz

Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey

Remark

| | | Read | Antenna | Cable | Preamp | | Limit | Over | |
|---|----------------------|-------|---------|-------|-----------|--------|--------|-------|-----------------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | MHz | dBu₹ | dB/m | dB | <u>dB</u> | dBuV/m | dBuV/m | dB | |
| 1 | 2483,500 2483,500 | | | | | 48.80 | | | Peak Average |

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

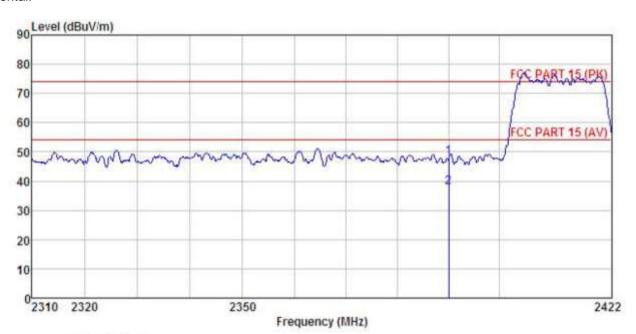




802.11n (H20)

Test channel: Lowest

Horizontal:



Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL : LTE Outdoor CPE Condition

EUT Model : EG7035L-M1

Test mode : 802.11-N20-L mode Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Carey

Ren

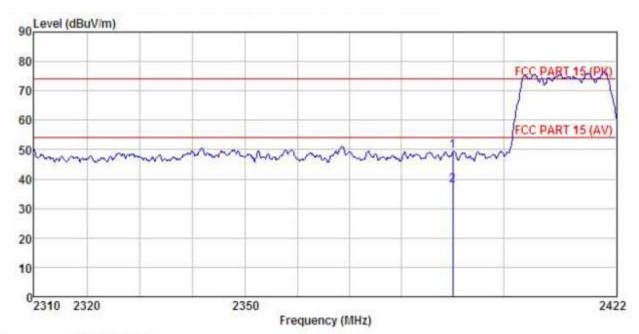
| mar | k : | Read | Antenna | Cable | Preamn | | Limit | Over | |
|-----|------------------------|------|-------------------|-------|--------|--------|--------|------|--|
| | Freq | | Factor | | | | | | |
| , | MHz | dBu∛ | $\overline{dB/m}$ | −−−dB | ₫₿ | dBuV/m | dBuV/m | dB | |
| 1 2 | 2390, 000 2390, 000 | | | | | | 74.00 | | |

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.







Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL

EUT : LTE Outdoor CPE Model : EG7035L-M1 : 802.11-N20-L mode Test mode

Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Carey Remark :

| mar | к : | | | | | | | | |
|-----|----------|-------|---------|-------|--------|--------|--------|--------|---------|
| | | Read | Antenna | Cable | Preamp | * | Limit | Over | ъ., |
| | Freq | Level | Factor | Loss | ractor | Level | Line | Limit | Kemark |
| 2 | MHz | dBuV | dB/m | d₿ | ₫₿ | dBuV/m | dBuV/m | ₫B | |
| 1 | 2390.000 | | | | | | 74.00 | | |
| 2 | 2390,000 | 7.58 | 25, 45 | 4.69 | 0.00 | 37.72 | 54.00 | -16.28 | Average |

Remark:

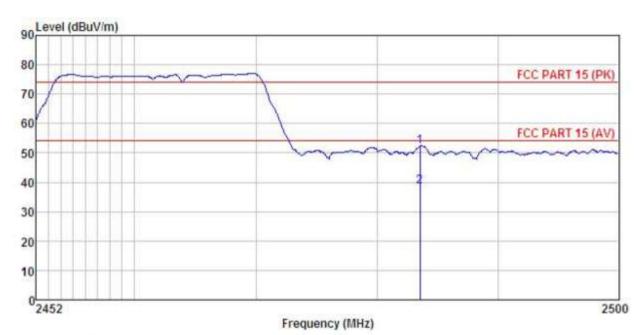
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.





Test channel: Highest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL : LTE Outdoor CPE Condition

EUT : EG7035L-M1 Model

Test mode : 802.11-N20-H mode Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey Remark :

| tai | | Read | Antenna | Cable | Preamn | | Limit | Over | |
|-----|----------------------|------|--------------------|-------|--------|--------|---------------------|------|--------|
| | Freq | | Factor | | | | (page 14 page 14) | | Remark |
| | MHz | dBu₹ | $-\overline{dB/m}$ | dB | dB | dBuV/m | dBuV/m | ₫B | |
| | 2483.500 2483.500 | | | | | | | | |

Remark:

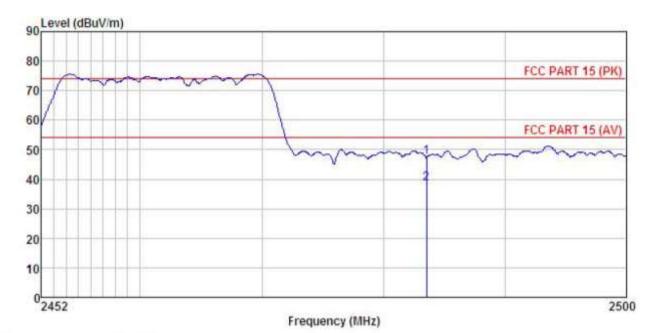
2

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366







Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL : LTE Outdoor CPE Condition

EUT : EG7035L-M1 Model

Test mode : 802.11-N20-H mode Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni:55%

Test Engineer: Carey

Remark

| ı ca | | Read | Ant enna | Cable | Preamp | | Limit | Over | |
|------|----------------------|-------|----------|-------|--------|----------------|--------|------|--|
| | Freq | Level | Factor | Loss | Factor | | | | |
| | MHz | dBu∜ | dB/m | ₫B | ₫B | dBuV/m | dBuV/m | dB | |
| | 2483.500 2483.500 | | | | | 47.52 38.55 | | | |

Remark:

1 2

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.

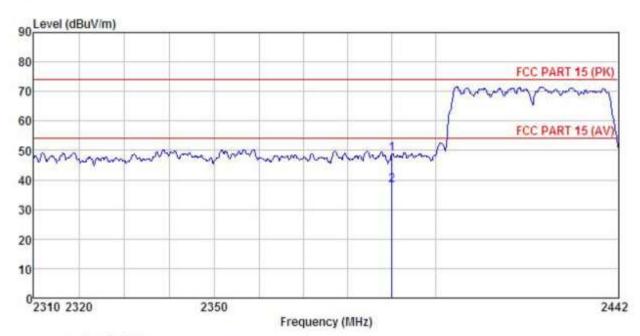




802.11n (H40)

Test channel: Lowest

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL : LTE Outdoor CPE Condition

EUT : EG7035L-M1 Model Test mode : 802.11-N40-L mode Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey

Remark

| | 7000 | Read. Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Remark |
|-----|----------------------|----------------|-------------------|---------------|------------------|----------------|---------------|---------------|--------|
| 3 | MHz | dBu∀ | -dB/m | −−−dB | −−−dB | dBuV/m | dBuV/m | dB | |
| 1 2 | 2390.000 2390.000 | | | | | 48.73 38.15 | | | |

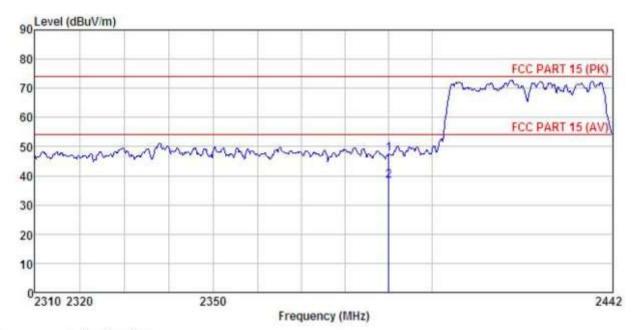
Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor 1.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366







Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL : LTE Outdoor CPE

EUT Model : EG7035L-M1

: 802.11-N40-L mode Test mode

Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Test Engineer: Carey Remark : Huni:55%

| a.i | K : | | | | | | | | |
|-----|----------|-------|----------|-------|--------|--------|--------|-------|--------|
| | | Read | Ant enna | Cable | Preamp | | Limit | Over | |
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | MHz | dBuV | dB/m | ₫B | d₿ | dBuV/m | dBuV/m | d₿ | |
| | 2390.000 | | | | | | | | Peak |

Remark:

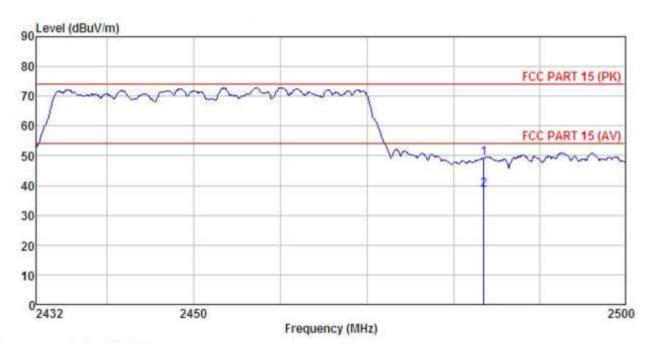
- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.





Test channel: Highest

Horizontal:



Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL

EUT : LTE Outdoor CPE

Model : EG7035L-M1

Test mode : 802.11-N40-H mode

Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Carey

Remark

| war | | Read | Ant enna | Cable | Preamp | | Limit | Over | |
|-----|----------------------|------|----------------|-------|-----------|--------|----------------|-------|-----------------|
| | Freq | | Factor | | | | Line | Limit | Remark |
| | MHz | dBuV | dB/m | dB | <u>dB</u> | dBuV/m | dBuV/m | dB | |
| 1 2 | 2483.500 2483.500 | | 25.66 25.66 | | | | 74.00 54.00 | | Peak Average |

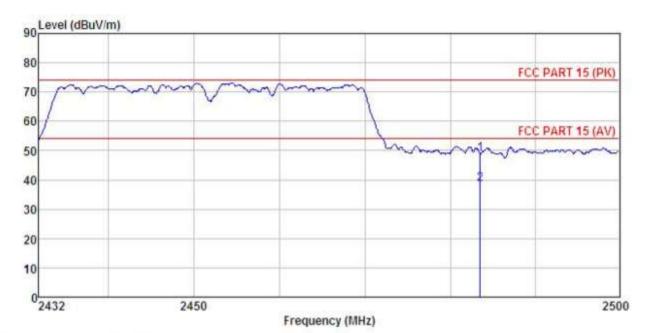
Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366







Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL : LTE Outdoor CPE Condition

EUT : EG7035L-M1 Model Test mode : 802.11-N40-H mode

Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Carey

Rema

| a | rk : | Read | Antenna | Cable | Preamp | | Limit | Over | |
|---|----------|------|---------|-------|-----------|--------|--------|-----------|--------|
| | Freq | | Factor | | | | | | Remark |
| | MHz | dBuV | —dB/m | dB | <u>dB</u> | dBuV/n | dBuV/m | <u>dB</u> | |
| | 2483,500 | | 25.66 | | | | | | Peak |

Remark:

- Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.



6.7 Spurious Emission

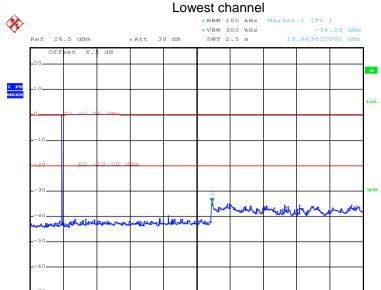
6.7.1 Conducted Emission Method

| Test Requirement: | FCC Part 15 C Section 15.247 (d) | | | | | | | |
|-------------------|--|--|--|--|--|--|--|--|
| Test Method: | ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance v04 section 11 | | | | | | | |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. | | | | | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | | | | |
| Test Instruments: | Refer to section 5.6 for details | | | | | | | |
| Test mode: | Refer to section 5.3 for details | | | | | | | |
| Test results: | Passed | | | | | | | |



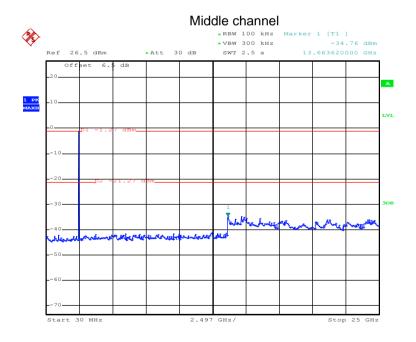
Test plot as follows:

Test mode: 802.11b



Date: 4.JUL.2017 03:21:27

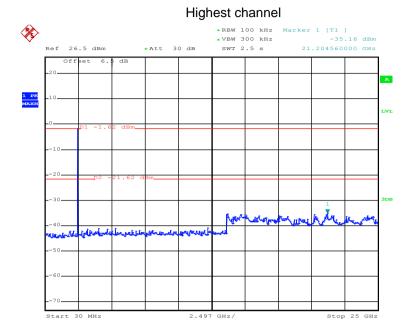
30MHz~25GHz



Date: 4.JUL.2017 03:22:16

30MHz~25GHz





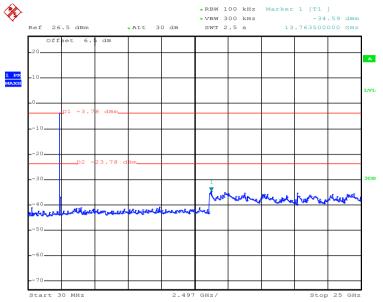
Date: 4.JUL.2017 03:23:02

30MHz~25GHz



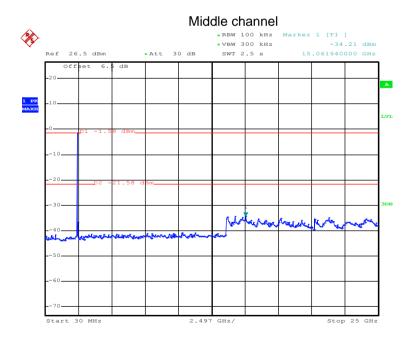
Test mode: 802.11g

Lowest channel



Date: 4.JUL.2017 03:20:00

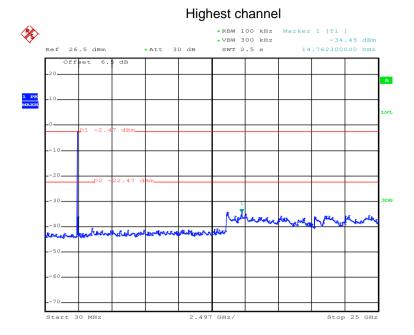
30MHz~25GHz



Date: 4.JUL.2017 03:18:54

30MHz~25GHz



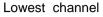


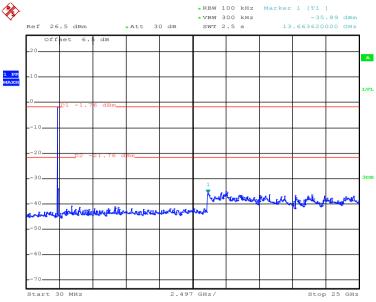
Date: 4.JUL.2017 03:17:17

30MHz~25GHz



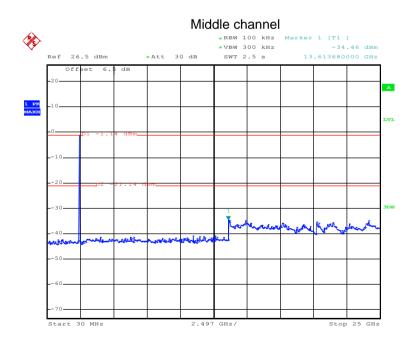
Test mode: 802.11n(H20)





Date: 4.JUL.2017 03:26:23

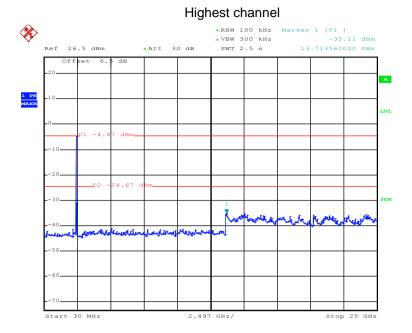
30MHz~25GHz



Date: 4.JUL.2017 03:25:39

30MHz~25GHz



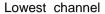


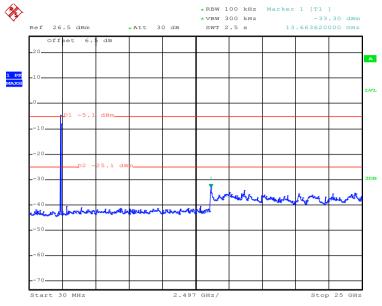
Date: 4.JUL.2017 03:23:48

30MHz~25GHz



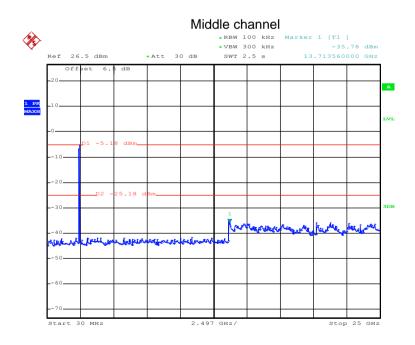
Test mode: 802.11n(H40)





Date: 4.JUL.2017 03:27:48

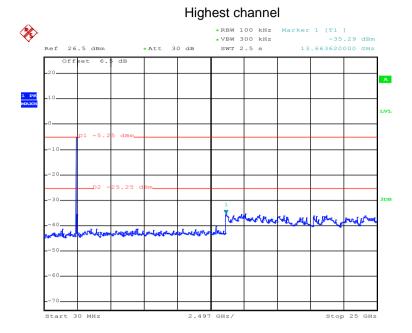
30MHz~25GHz



Date: 4.JUL.2017 03:28:29

30MHz~25GHz





Date: 4.JUL.2017 03:29:49

30MHz~25GHz



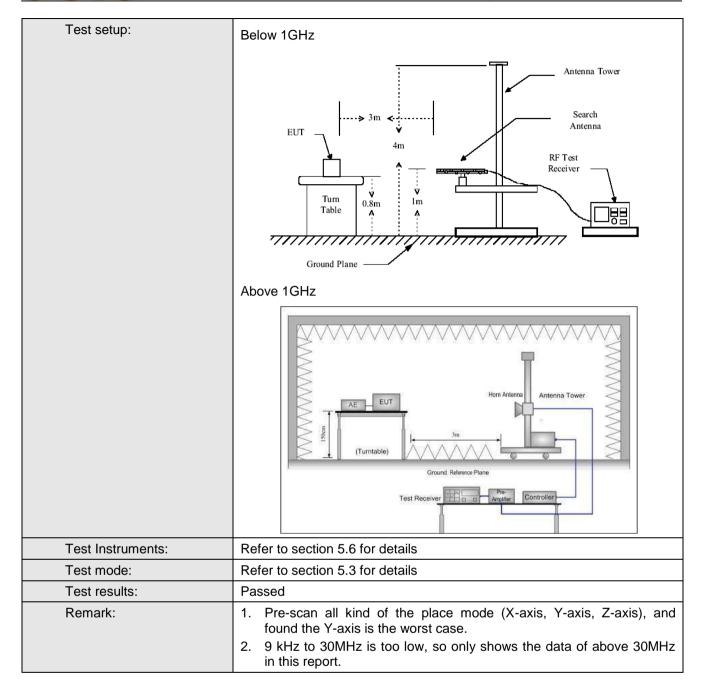


6.7.2 Radiated Emission Method

| Test Requirement: | FCC Part 15 C S | ection 15 | 5.209 a | and 15.205 | | | |
|-----------------------|--|--|---|--|--|--|---|
| Test Method: | ANSI C63.10:201 | 13 | | | | | |
| Test Frequency Range: | 9kHz to 25GHz | | | | | | |
| Test site: | Measurement Dis | stance: 3r | m | | | | |
| Receiver setup: | Frequency | Detect | tor | RBW | V | BW | Remark |
| · | 30MHz-1GHz | Quasi-p | i-peak 120KHz 30 | | 300 |)KHz | Quasi-peak Value |
| | Above 1GHz | Peak | | 1MHz | 3MHz | | Peak Value |
| | | RMS | | 1MHz | | ИHz | Average Value |
| Limit: | | | | | | | Remark |
| | 30MHz-88MHz 40.0 Quasi-peak Valu | | | | | | |
| | 88MHz-216MH | | | 43.5 | | | uasi-peak Value |
| | 216MHz-960M | | | 46.0 | | | uasi-peak Value |
| | 960MHz-1GH | Z | | 54.0 | | | uasi-peak Value |
| | Above 1GHz | <u>:</u> | | 54.0 74.0 | | <i>'</i> | Average Value Peak Value |
| Test Procedure: | The table was highest radia 2. The EUT was antenna, who tower. 3. The antennathe ground to Both horizor make the med. 4. For each suscase and the meters and to find the med. 5. The test-reconspecified Base 6. If the emission the limit specified Buthave 10dB research. | (above 10 as rotated ation. It is set 3 m ich was not a height is to determinatel and voe asurements and with a rota taximum rever systemowidth woon level of cified, the would be margin wo | GHz) and 360 of the lent sent sent sent able were adinated with Mof the lent test report ould be desired. | above the gradegrees to degrees to degrees to degrees to degree d | he into of a meter value s of the was a point of a mode stoppe the ne by | at a 3 aine the erferent variable to four of the time ante errange phts frodegree tect Fude. Example was 1 oped and emission one up to the time arrange of the time arrange example. | meter chamber. e position of the nce-receiving le-height antenna meters above field strength. enna are set to ed to its worst m 1 meter to 4 s to 360 degrees |





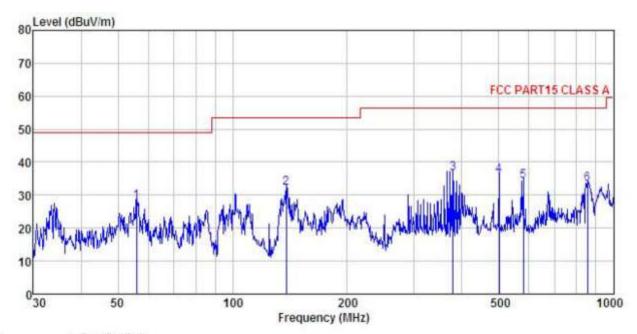






Below 1GHz

Horizontal:



Site

: 3m chamber : FCC PART15 CLASS A 3m VULB9163(30M2G) HORIZONTAL : LTE Outdoor CPE Condition

EUT

Model : EG7035L-M1 Test mode : WIFI mode Power Rating : AC120V/60Hz

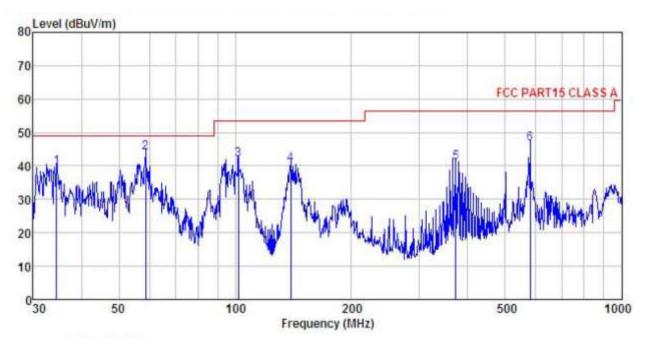
Environment : Temp: 25.5°C Huni: 55%

Test Engineer: Carey Remark :

| emark | : | | | | | | | | |
|-----------------------|---------|-------|--------------------|------|-----------|---------------------|---------------|---------------|----|
| | Freq | | Antenna Factor | | | | Limit Line | Over Limit | |
| - | MHz | dBu∀ | $\overline{-dB/m}$ | dB | <u>dB</u> | $\overline{dBuV/m}$ | dBuV/m | <u>dB</u> | |
| 1. | 56.001 | 42.92 | | 1.36 | 29.79 | | 49.00 | -21.07 | QP |
| 2 | 138.387 | 50.62 | 8.36 | 2.38 | 29.28 | 32.08 | 53.50 | -21.42 | QP |
| 3 | 378.584 | 47.57 | 14.58 | 3.09 | 28.69 | 36.55 | 56.40 | -19.85 | QP |
| 4 | 501.179 | 44.57 | 16.70 | 3.63 | 28.96 | 35.94 | 56.40 | -20.46 | QP |
| 1 2 3 4 5 | 580.703 | 41.31 | 18.12 | 3.92 | 29.00 | 34.35 | 56.40 | -22.05 | QP |
| 6 | 854.025 | 36.72 | 20.60 | 4.15 | 27.99 | 33.48 | 56.40 | -22.92 | QP |
| | | | | | | | | | |







Site

: 3m chamber : FCC PART15 CLASS A 3m VULB9163(30M2G) VERTICAL : LTE Outdoor CPE Condition

EUT

Model : EG7035L-M1 Test mode : WIFI mode Power Rating : AC120V/60Hz

Environment : Temp:25.5°C Huni:55% Test Engineer: Carey

| Kemark | : | Read | Antenna | Cable | Preamn | | Limit | Over | |
|------------------|---------|-------|---------|-------|--------|--------|--------|--------|--------|
| | Freq | | Factor | | | | | | Remark |
| - | MHz | dBu√ | -dB/m | dB | dB | dBuV/m | dBuV/m | dB | ****** |
| 1 | 34.517 | 56.91 | 11.67 | 1.04 | 29.95 | 39.67 | 49.00 | -9.33 | QP |
| 2 | 58.613 | 59.45 | 12.80 | 1.37 | 29.78 | 43.84 | 49.00 | -5.16 | QP |
| 2 3 4 5 | 102.001 | 57.27 | 12.16 | 1.96 | 29.51 | 41.88 | 53.50 | -11.62 | QP |
| 4 | 139.361 | 59.14 | 8.30 | 2.39 | 29.28 | 40.55 | 53.50 | -12.95 | QP |
| 5 | 372.005 | 52.18 | 14.52 | 3.09 | 28.66 | 41.13 | 56.40 | -15.27 | QP |
| 6 | 580.703 | 53.69 | 18.12 | 3.92 | 29.00 | 46.73 | 56.40 | -9.67 | QP |





Above 1GHz

| Test mode: 80 | 02.11b | | Test char | nnel: Lowest | | Remark: Peak | | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|------------|--|
| Frequency | Read | Antenna | Cable | Preamp | Level | Limit Line | Over | Date | |
| (MHz) | Level (dBuV) | Factor (dB/m) | Loss (dB) | Factor (dB) | (dBuV/m) | (dBuV/m) | Limit (dB) | Polar. | |
| 4824.00 | 46.96 | 36.06 | 6.81 | 41.82 | 48.01 | 74.00 | -25.99 | Vertical | |
| 4824.00 | 47.69 | 36.06 | 6.81 | 41.82 | 48.74 | 74.00 | -25.26 | Horizontal | |
| Test mode: 80 | 02.11b | | Test channel: Lowest | | | Remark: Ave | erage | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. | |
| 4824.00 | 36.06 | 36.06 | 6.81 | 41.82 | 37.11 | 54.00 | -16.89 | Vertical | |
| 4824.00 | 37.54 | 36.06 | 6.81 | 41.82 | 38.59 | 54.00 | -15.41 | Horizontal | |

| Test mode: 80 | 02.11b | | Test channel: Middle | | | Remark: Peak | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4874.00 | 46.01 | 36.32 | 6.85 | 41.84 | 47.34 | 74.00 | -26.66 | Vertical |
| 4874.00 | 46.69 | 36.32 | 6.85 | 41.84 | 48.02 | 74.00 | -25.98 | Horizontal |
| Test mode: 80 | 02.11b | | Test channel: Middle | | | Remark: Ave | rage | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4874.00 | 36.39 | 36.32 | 6.85 | 41.84 | 37.72 | 54.00 | -16.28 | Vertical |
| 4874.00 | 36.82 | 36.32 | 6.85 | 41.84 | 38.15 | 54.00 | -15.85 | Horizontal |

| Test mode: 80 | 02.11b | | Test char | nnel: Highest | | Remark: Peak | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4924.00 | 47.49 | 36.58 | 6.89 | 41.86 | 49.10 | 74.00 | -24.90 | Vertical |
| 4924.00 | 48.14 | 36.58 | 6.89 | 41.86 | 49.75 | 74.00 | -24.25 | Horizontal |
| Test mode: 80 | 02.11b | | Test channel: Highest | | | Remark: Ave | rage | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4924.00 | 37.13 | 36.58 | 6.89 | 41.86 | 38.74 | 54.00 | -15.26 | Vertical |
| 4924.00 | 38.56 | 36.58 | 6.89 | 41.86 | 40.17 | 54.00 | -13.83 | Horizontal |

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





| Test mode: 80 |)2.11g | | Test channel: Lowest | | | Remark: Peak | | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|------------------|------------------------|-----------------------|------------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. | |
| 4824.00 | 45.36 | 36.06 | 6.81 | 41.82 | 46.41 | 74.00 | -27.59 | Vertical | |
| 4824.00 | 45.82 | 36.06 | 6.81 | 41.82 | 46.87 | 74.00 | -27.13 | Horizontal | |
| Test mode: 80 | 02.11g | | Test channel: Lowest | | | Remark: Ave | rage | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. | |
| 4824.00 | 35.57 | 36.06 | 6.81 | 41.82 | 36.62 | 54.00 | -17.38 | Vertical | |
| 4824.00 | 35.75 | 36.06 | 6.81 | 41.82 | 36.80 | 54.00 | -17.20 | Horizontal | |

| Test mode: 802.11g | | | Test channel: Middle | | | Remark: Peak | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|------------------|------------------------|-----------------------|------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4874.00 | 45.68 | 36.32 | 6.85 | 41.84 | 47.01 | 74.00 | -26.99 | Vertical |
| 4874.00 | 46.48 | 36.32 | 6.85 | 41.84 | 47.81 | 74.00 | -26.19 | Horizontal |
| Test mode: 80 |)2.11g | | Test channel: Middle | | Remark: Average | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4874.00 | 35.36 | 36.32 | 6.85 | 41.84 | 36.69 | 54.00 | -17.31 | Vertical |
| 4874.00 | 36.84 | 36.32 | 6.85 | 41.84 | 38.17 | 54.00 | -15.83 | Horizontal |

| Test mode: 8 | mode: 802.11g | | Test channel: Highest | | | Remark: Peak | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-----------------------|------------------------|-----------------------|------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4924.00 | 48.97 | 36.58 | 6.89 | 41.86 | 50.58 | 74.00 | -23.42 | Vertical |
| 4924.00 | 46.74 | 36.58 | 6.89 | 41.86 | 48.35 | 74.00 | -25.65 | Horizontal |
| Test mode: 8 | 02.11g | | Test channel: Highest | | | Remark: Average | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4924.00 | 38.04 | 36.58 | 6.89 | 41.86 | 39.65 | 54.00 | -14.35 | Vertical |
| 4924.00 | 36.15 | 36.58 | 6.89 | 41.86 | 37.76 | 54.00 | -16.24 | Horizontal |

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





| Test mode: 802.11n(H20) | | Test channel: Lowest | | | Remark: Peak | | | |
|-------------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4824.00 | 46.37 | 36.06 | 6.81 | 41.82 | 47.42 | 74.00 | -26.58 | Vertical |
| 4824.00 | 45.57 | 36.06 | 6.81 | 41.82 | 46.62 | 74.00 | -27.38 | Horizontal |
| Test mode: 80 | 02.11n(H20) | | Test channel: Lowest | | | Remark: Average | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4824.00 | 36.06 | 36.06 | 6.81 | 41.82 | 37.11 | 54.00 | -16.89 | Vertical |
| 4824.00 | 35.41 | 36.06 | 6.81 | 41.82 | 36.46 | 54.00 | -17.54 | Horizontal |

| Test mode: 80 | Test mode: 802.11n(H20) | | | Test channel: Middle | | | Remark: Peak | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|------------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. | |
| 4874.00 | 46.84 | 36.32 | 6.85 | 41.84 | 48.17 | 74.00 | -25.83 | Vertical | |
| 4874.00 | 45.54 | 36.32 | 6.85 | 41.84 | 46.87 | 74.00 | -27.13 | Horizontal | |
| Test mode: 80 | 02.11n(H20) | | Test char | nnel: Middle | | Remark: Average | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. | |
| 4874.00 | 36.54 | 36.32 | 6.85 | 41.84 | 37.87 | 54.00 | -16.13 | Vertical | |
| 4874.00 | 35.31 | 36.32 | 6.85 | 41.84 | 36.64 | 54.00 | -17.36 | Horizontal | |

| Test mode: 80 | Test mode: 802.11n(H20) | | | Test channel: Highest | | | Remark: Peak | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|------------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. | |
| 4924.00 | 47.89 | 36.58 | 6.89 | 41.86 | 49.50 | 74.00 | -24.50 | Vertical | |
| 4924.00 | 47.33 | 36.58 | 6.89 | 41.86 | 48.94 | 74.00 | -25.06 | Horizontal | |
| Test mode: 80 | 02.11n(H20) | | Test channel: Highest | | | Remark: Ave | rage | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. | |
| 4924.00 | 37.58 | 36.58 | 6.89 | 41.86 | 39.19 | 54.00 | -14.81 | Vertical | |
| 4924.00 | 37.38 | 36.58 | 6.89 | 41.86 | 38.99 | 54.00 | -15.01 | Horizontal | |

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.





| Test mode: 802.11n(H40) | | | Test channel: Lowest | | | Remark: Peak | | |
|-------------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4844.00 | 45.36 | 36.06 | 6.81 | 41.82 | 46.41 | 74.00 | -27.59 | Vertical |
| 4844.00 | 46.81 | 36.06 | 6.81 | 41.82 | 47.86 | 74.00 | -26.14 | Horizontal |
| Test mode: 80 | 02.11n(H40) | | Test channel: Lowest | | | Remark: Average | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4844.00 | 35.79 | 36.06 | 6.81 | 41.82 | 36.84 | 54.00 | -17.16 | Vertical |
| 4844.00 | 36.09 | 36.06 | 6.81 | 41.82 | 37.14 | 54.00 | -16.86 | Horizontal |

| Test mode: 80 | Test mode: 802.11n(H40) | | | Test channel: Middle | | | Remark: Peak | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|------------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. | |
| 4874.00 | 45.99 | 36.32 | 6.85 | 41.84 | 47.32 | 74.00 | -26.68 | Vertical | |
| 4874.00 | 45.81 | 36.32 | 6.85 | 41.84 | 47.14 | 74.00 | -26.86 | Horizontal | |
| Test mode: 80 | 02.11n(H40) | | Test char | nnel: Middle | Remark: Average | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. | |
| 4874.00 | 35.18 | 36.32 | 6.85 | 41.84 | 36.51 | 54.00 | -17.49 | Vertical | |
| 4874.00 | 35.58 | 36.32 | 6.85 | 41.84 | 36.91 | 54.00 | -17.09 | Horizontal | |

| Test mode: 80 | Test mode: 802.11n(H40) | | Test channel: Highest | | | Remark: Peak | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|------------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4904.00 | 46.61 | 36.45 | 6.87 | 41.85 | 48.08 | 74.00 | -25.92 | Vertical |
| 4904.00 | 46.05 | 36.45 | 6.87 | 41.85 | 47.52 | 74.00 | -26.48 | Horizontal |
| Test mode: 80 | 02.11n(H40) | | Test char | nnel: Highest | | Remark: Ave | rage | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polar. |
| 4904.00 | 36.09 | 36.45 | 6.87 | 41.85 | 37.56 | 54.00 | -16.44 | Vertical |
| 4904.00 | 36.22 | 36.45 | 6.87 | 41.85 | 37.69 | 54.00 | -16.31 | Horizontal |

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.