

Global United Technology Services Co., Ltd.

Report No.: GTS201803000219F03

FCC Report (WIFI)

AOC Applicant:

Address of Applicant: 14F-5, No. 258, Liancheng Rd., Zhonghe Dist., New Taipei

City 23511, Taiwan

AOC Manufacturer:

Address of 14F-5, No. 258, Liancheng Rd., Zhonghe Dist., New Taipei

Manufacturer: City 23511, Taiwan

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: A941

Trade Mark: **AOC**

FCC ID: 2AEB5-A941

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

Date of sample receipt: March 19, 2018

Date of Test: March 20, 2018-April 08, 2018

Date of report issued: April 08, 2018

Test Result: PASS *

Authorized Signature:

Robinson Lo **Laboratory Manager**

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

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



2 Version

| Version No. | Date | Description |
|-------------|----------------|-------------|
| 00 | April 08, 2018 | Original |
| | | |
| | | |
| | | |
| | | |

| Prepared By: | Jeger Che | Date: | April 08, 2018 |
|--------------|------------------|-------|----------------|
| | Project Engineer | | |
| Check By: | Reviewer | Date: | April 08, 2018 |



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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 |
| Channel 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.

Remark: Test according to ANSI C63.4:2014 and ANSI C63.10:2013.

Measurement Uncertainty

| • | | | | | |
|--|--------------------------------------|-----------------------------------|-------|--|--|
| Test Item | Frequency Range | Measurement Uncertainty | Notes | | |
| Radiated Emission | 9kHz ~ 30MHz | ± 4.34dB | (1) | | |
| Radiated Emission | 30MHz ~ 1000MHz | ± 4.24dB | (1) | | |
| Radiated Emission | 1GHz ~ 26.5GHz | ± 4.68dB | (1) | | |
| AC Power Line Conducted 0.15MHz ~ 30MHz ± 3.45dB | | | | | |
| Note (1): The measurement unce | ertainty is for coverage factor of k | =2 and a level of confidence of 9 | 95%. | | |



5 General Information

5.1 General Description of EUT

| Product Name: | Tablet PC | |
|------------------------|---|--|
| Model No.: | A941 | |
| Serial No.: | 2000377596056 | |
| Test sample(s) ID: | GTS201803000219-1 | |
| Sample(s) Status | Engineer sample | |
| Hardware: | TH900-BT-V4.0 | |
| Software: | A941-2018 | |
| Channel numbers: | 802.11b/802.11g /802.11n(HT20): 11 802.11n(HT40):7 | |
| Channel separation: | 5MHz | |
| Modulation technology: | 802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n(H20)/802.11n(HT40): Orthogonal Frequency Division Multiplexing (OFDM) | |
| Antenna Type: | FPC antenna | |
| Antenna gain: | 2.0 dBi(declare by manufacturer) | |
| Power supply: | Adapter: | |
| | Model:JHD-AP013U-050200BA-A | |
| | Input: AC 100-240V, 50/60Hz, 0.35A | |
| | Output: DC 5V, 2000mA | |
| | Or | |
| | Battery: DC 3.7V, 4000mAh, 14.8Wh | |



| Operation Frequency each of channel | | | | | | | |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 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 | | |

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:

| Test channel | Frequency (MHz) | | | |
|-----------------|-------------------------------|---------------|--|--|
| rest channel | 802.11b/802.11g/802.11n(HT20) | 802.11n(HT40) | | |
| Lowest channel | 2412MHz | 2422MHz | | |
| Middle channel | 2437MHz | 2437MHz | | |
| Highest channel | 2462MHz | 2452MHz | | |



5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

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

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

| Mode | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) |
|-----------|---------|---------|---------------|---------------|
| Data rate | 1Mbps | 6Mbps | 6.5Mbps | 13Mbps |

5.3 Description of Support Units

None

5.4 Test Facility

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

• FCC —Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383, January 08, 2018.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016.

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



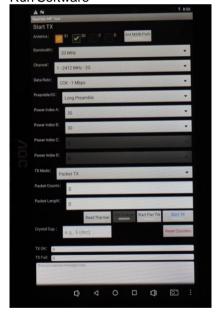
5.6 Additional Instructions

EUT Software Settings:

| | Special software is used. |
|------|--|
| Mode | The software provided by client to enable the EUT under transmission |
| | condition continuously at specific channel frequencies individually. |

| Power level setup in softwa | ire | | | |
|------------------------------------|-----------|-----------------|---------------------|--|
| Test Software Name | WLAN Test | | | |
| Mode | Channel | Frequency (MHz) | Soft Set | |
| 802.11b/g/n(HT20) 802.11n(HT40) | CH1 | 2412 | | |
| | CH6 | 2437 | | |
| | CH11 | 2462 | TX level : default | |
| | CH3 | 2422 | i x ievei : default | |
| | CH6 | 2437 | | |
| | CH9 | 2452 | | |

Run Software



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

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6 Test Instruments list

| Radia | Radiated Emission: | | | | | | |
|-------|---------------------------------|------------------|-----------------------|------------------|------------------------|----------------------------|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) | |
| 1 | 3m Semi- Anechoic Chamber | ZhongYu Electron | 9.0(L)*6.0(W)* 6.0(H) | GTS250 | July. 03 2015 | July 02 2020 | |
| 2 | Control Room | ZhongYu Electron | 6.2(L)*2.5(W)* 2.4(H) | GTS251 | N/A | N/A | |
| 3 | ESU EMI Test Receiver | R&S | ESU26 | GTS203 | June 28 2017 | June 27 2018 | |
| 4 | Loop Antenna | Zhinan | ZN30900A | GTS534 | June 28 2017 | June 27 2018 | |
| 5 | BiConiLog Antenna | SCHWARZBECK | VULB9163 | GTS214 | June 28 2017 | June 27 2018 | |
| 6 | Double-ridged horn antenna | SCHWARZBECK | 9120D | GTS208 | June 28 2017 | June 27 2018 | |
| 7 | Horn Antenna | ETS-LINDGREN | 3160-09 | GTS218 | June 28 2017 | June 27 2018 | |
| 8 | RF Amplifier | HP | 8347A | GTS204 | June 28 2017 | June 27 2018 | |
| 9 | RF Amplifier | HP | 8349B | GTS206 | June 28 2017 | June 27 2018 | |
| 10 | Broadband Preamplifier | SCHWARZBECK | BBV9718 | GTS535 | June 28 2017 | June 27 2018 | |
| 11 | PSA Series Spectrum Analyzer | Agilent | E4440A | GTS536 | June 28 2017 | June 27 2018 | |
| 12 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A | |
| 13 | Coaxial Cable | GTS | N/A | GTS210 | June 28 2017 | June 27 2018 | |
| 14 | Coaxial Cable | GTS | N/A | GTS211 | June 28 2017 | June 27 2018 | |
| 15 | Coaxial Cable | GTS | N/A | GTS210 | June 28 2017 | June 27 2018 | |
| 16 | Coaxial Cable | GTS | N/A | GTS212 | June 28 2017 | June 27 2018 | |
| 17 | Thermo meter | N/A | N/A | GTS256 | June 28 2017 | June 27 2018 | |
| 18 | Power Meter | Anritsu | ML2495A | GTS540 | June 26 2017 | June 25 2018 | |
| 19 | Power Sensor | Anritsu | MA2411B | GTS541 | June 26 2017 | June 25 2018 | |

| Con | Conducted Emission | | | | | | | | | | | | |
|------|--------------------------|---------------------|----------------------|------------------|------------------------|----------------------------|--|--|--|--|--|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) | | | | | | | |
| 1 | Shielding Room | ZhongYu Electron | 7.3(L)x3.1(W)x2.9(H) | GTS252 | May.16 2014 | May 15 2019 | | | | | | | |
| 2 | EMI Test Receiver | R&S | ESCI 7 | GTS552 | June 28 2017 | June 27 2018 | | | | | | | |
| 3 | Coaxial Switch | ANRITSU CORP | MP59B | GTS225 | June 28 2017 | June 27 2018 | | | | | | | |
| 4 | Artificial Mains Network | SCHWARZBECK MESS | NSLK8127 | GTS226 | June 28 2017 | June 27 2018 | | | | | | | |
| 5 | High voltage probe | SCHWARZBECK | TK9420 | GTS537 | June 28 2017 | June 27 2018 | | | | | | | |
| 6 | ISN | SCHWARZBECK | NTFM 8158 | GTS565 | June 28 2017 | June 27 2018 | | | | | | | |
| 7 | Coaxial Cable | GTS | N/A | GTS227 | June 28 2017 | June 27 2018 | | | | | | | |
| 8 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A | | | | | | | |
| 9 | Thermo meter | KTJ | TA328 | GTS233 | June 28 2017 | June 27 2018 | | | | | | | |
| 10 | 10dB Pulse Limiter | Rohde & Schwarz | N/A | GTS224 | June 28 2017 | June 27 2018 | | | | | | | |

| Gene | General used equipment: | | | | | | | | | | | |
|------|-------------------------|--------------|-----------|------------------|------------------------|----------------------------|--|--|--|--|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) | | | | | | |
| 1 | Barometer | ChangChun | DYM3 | GTS257 | June 28 2017 | June 27 2018 | | | | | | |



7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

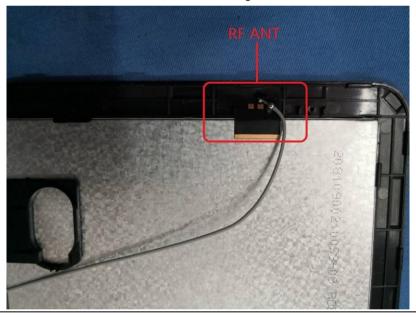
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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.

EUT Antenna:

The antenna is FPC antenna, the best case gain of the antenna is 2.0 dBi



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7.2 Conducted Emissions

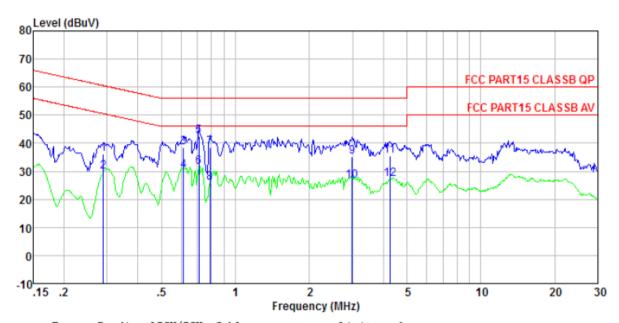
| Test Requirement: | FCC Part15 C Section 15.207 | | | | | | |
|-----------------------|---|-----------------|-----------------|--|--|--|--|
| Test Method: | ANSI C63.10:2013 | | | | | | |
| Test Frequency Range: | 150KHz to 30MHz | | | | | | |
| Receiver setup: | RBW=9KHz, VBW=30KHz, Sv | veep time=auto | | | | | |
| Limit: | Frequency range (MHz) Limit (dBuV) | | | | | | |
| | , , , | Quasi-peak | Average | | | | |
| | 0.15-0.5 0.5-5 | 66 to 56* 56 | 56 to 46* 46 | | | | |
| | 5-30 | 60 | 50 | | | | |
| | * Decreases with the logarithm | | 30 | | | | |
| Test setup: | Reference Plane | | | | | | |
| Total | LISN 40cm 80cm Filter AC power Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line Impedence Stabilization Network Test table height=0.8m | | | | | | |
| Test procedure: | The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 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 Instruments: | Refer to section 6.0 for details | | | | | | |
| Test mode: | Refer to section 5.2 for details | | | | | | |
| Test results: | Pass | | | | | | |

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Measurement data

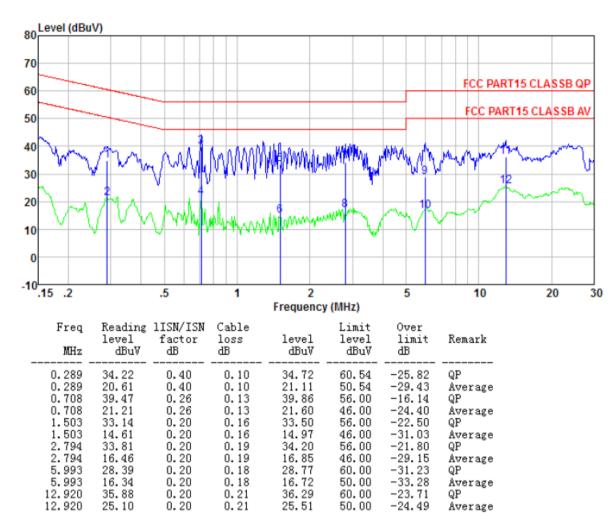
Line:



| Freq MHz | Reading level dBuV | 1ISN/ISN factor dB | Cable loss dB | _ | level dBuV | Limit level dBuV | Over limit dB | Remark |
|--|--|--|--|---|--|--|---|---|
| 0. 289 0. 289 0. 614 0. 614 0. 708 0. 708 0. 788 0. 788 2. 993 | 35. 72 29. 19 38. 17 29. 92 42. 19 31. 24 38. 11 25. 53 34. 84 | 0. 40 0. 40 0. 28 0. 28 0. 26 0. 26 0. 24 0. 24 | 0.10 0.10 0.12 0.12 0.13 0.13 0.14 0.14 0.19 | - | 36. 22 29. 69 38. 57 30. 32 42. 58 31. 63 38. 49 25. 91 35. 23 | 60.54 50.54 56.00 46.00 56.00 46.00 46.00 56.00 | -24. 32 -20. 85 -17. 43 -15. 68 -13. 42 -14. 37 -17. 51 -20. 09 -20. 77 | QP Average QP Average QP Average QP Average QP Average QP |
| 2.993 4.269 4.269 | 26.26 35.09 26.72 | 0.20 0.20 0.20 | 0.19 0.18 0.18 | | 26.65 35.47 27.10 | 46.00 56.00 46.00 | -19.35 -20.53 -18.90 | Average QP Average |



Neutral:

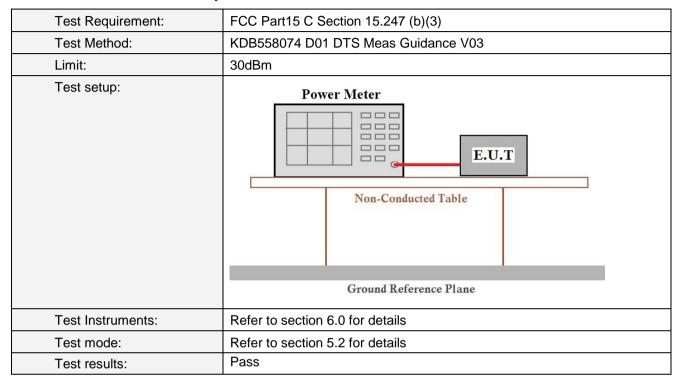


Notes:

- 1. An initial pre-scan was performed on the line 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
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



7.3 Conducted Peak Output Power



Measurement Data

| Test CH | | Peak Outp | Limit(dBm) | Result | | | |
|----------|---------|-----------|---------------|---------------|-------------|--------|--|
| 1631 011 | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | Limit(abin) | Nesuit | |
| Lowest | 7.28 | 7.77 | 7.80 | 7.85 | | | |
| Middle | 7.50 | 8.00 | 7.50 | 7.85 | 30.00 | Pass | |
| Highest | 6.64 | 7.70 | 7.40 | 7.28 | | | |



7.4 Channel Bandwidth

| Test Requirement: | FCC Part15 C Section 15.247 (a)(2) | | | |
|-------------------|---|--|--|--|
| Test Method: | KDB558074 D01 DTS Meas Guidance V03 | | | |
| Limit: | >500KHz | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | |
| Test Instruments: | Refer to section 6.0 for details | | | |
| Test mode: | Refer to section 5.2 for details | | | |
| Test results: | Pass | | | |

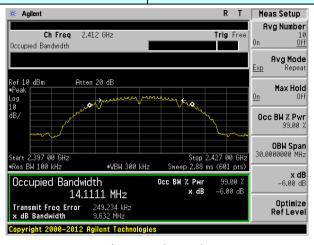
Measurement Data

| Test CH | | Channel E | Limit(KHz) | Result | | |
|----------|---------|-----------|---------------|---------------|-----------------|--------|
| Test Off | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | Lillill(IXI IZ) | Nesuit |
| Lowest | 9.632 | 15.753 | 16.404 | 35.150 | | |
| Middle | 10.104 | 16.417 | 17.430 | 35.768 | >500 | Pass |
| Highest | 9.630 | 14.581 | 16.435 | 35.765 | | |

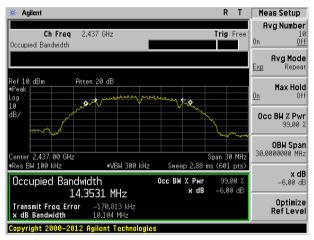
Test plot as follows:

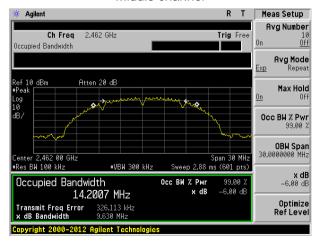


Test mode: 802.11b



Lowest channel

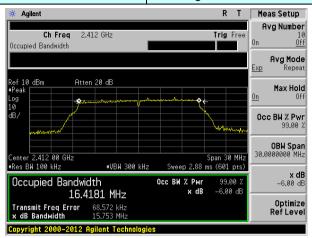




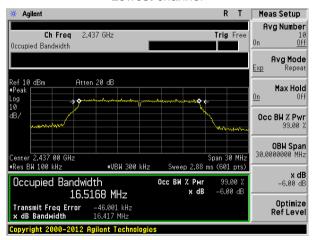
Highest channel

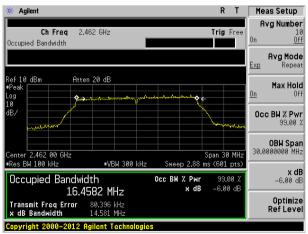


Test mode: 802.11g



Lowest channel

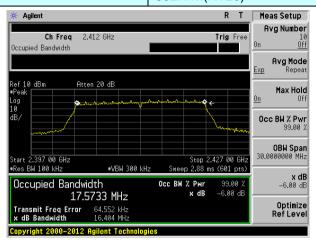




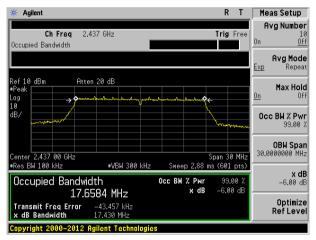
Highest channel

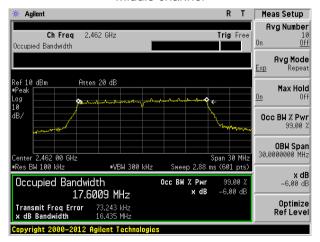


Test mode: 802.11n(HT20)



Lowest channel

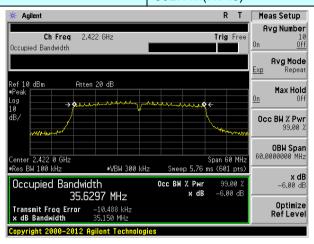




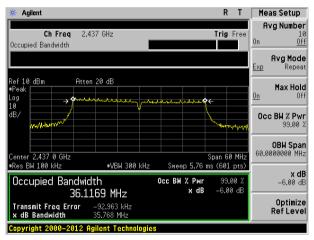
Highest channel

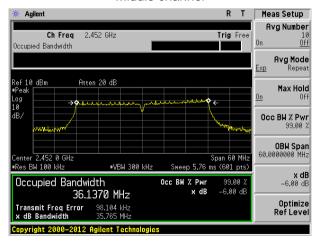


Test mode: 802.11n(HT40)



Lowest channel





Highest channel



7.5 Power Spectral Density

| Test Requirement: | FCC Part15 C Section 15.247 (e) | | | |
|-------------------|---|--|--|--|
| Test Method: | KDB558074 D01 DTS Meas Guidance V03 | | | |
| Limit: | 8dBm/3kHz | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | |
| Test Instruments: | Refer to section 6.0 for details | | | |
| Test mode: | Refer to section 5.2 for details | | | |
| Test results: | Pass | | | |

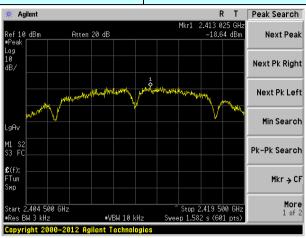
Measurement Data

| Test CH | | Power Spe | Limit | Result | | | |
|----------|---------|-----------|---------------|---------------|-----------------------------|--------|--|
| 1631 011 | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | Limit (dBm/3kHz) 8.00 | iveani | |
| Lowest | -18.64 | -20.40 | -20.91 | -23.17 | | | |
| Middle | -18.99 | -20.38 | -19.76 | -20.64 | 8.00 | Pass | |
| Highest | -19.67 | -18.96 | -20.75 | -22.77 | | | |

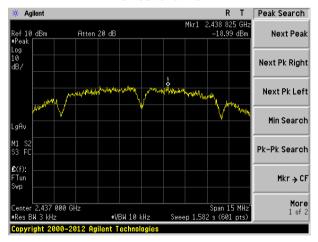


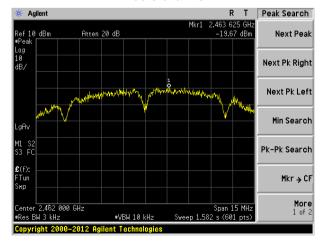
Test plot as follows:

Test mode: 802.11b



Lowest channel

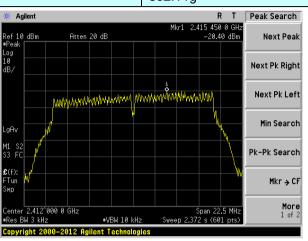




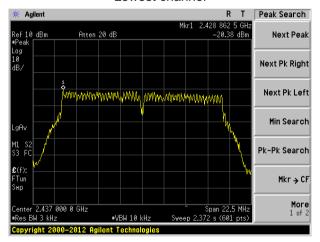
Highest channel

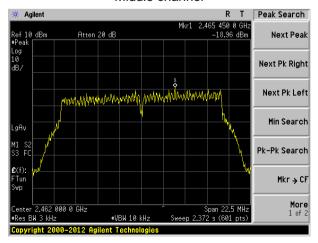


Test mode: 802.11g



Lowest channel

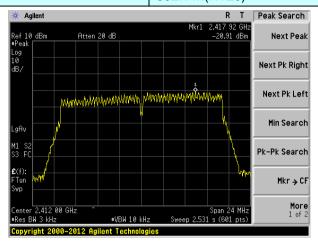




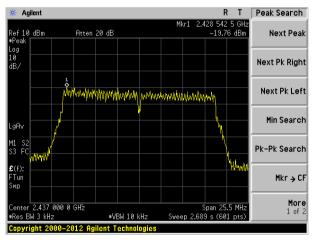
Highest channel

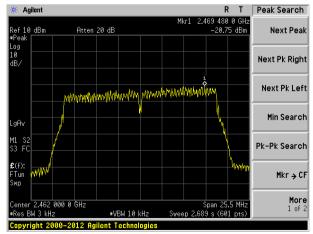


Test mode: 802.11n(HT20)



Lowest channel

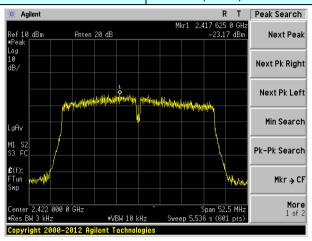




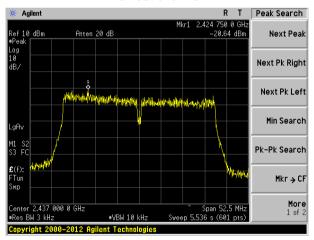
Highest channel

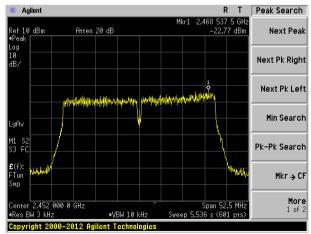


Test mode: 802.11n(HT40)



Lowest channel





Highest channel



7.6 Band edges

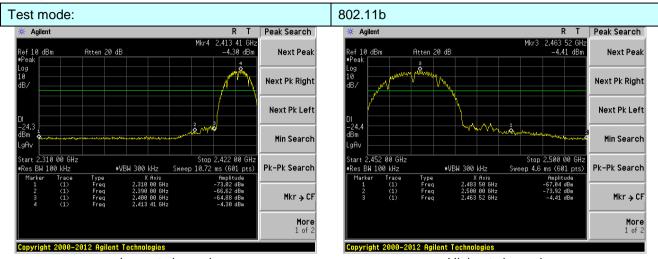
7.6.1 Conducted Emission Method

| Tost Poquiroment: | ECC Part15 C Section 15 247 (d) | | | | |
|-------------------|---|--|--|--|--|
| Test Requirement: | FCC Part15 C Section 15.247 (d) | | | | |
| Test Method: | KDB558074 D01 DTS Meas Guidance V03 | | | | |
| 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. | | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | |
| Test mode: | Refer to section 5.2 for details | | | | |
| Test results: | Pass | | | | |



Test plot as follows:

Test mode:



More 1 of 2

Lowest channel

Highest channel

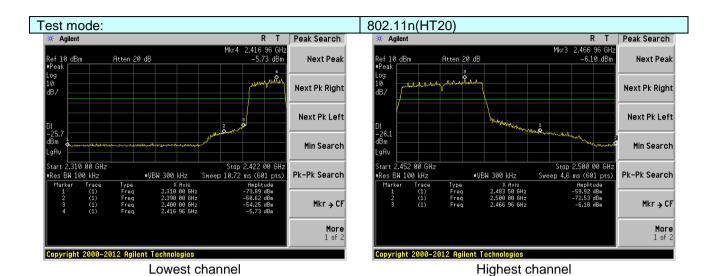
Lowest channel

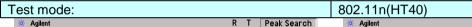
Copyright 2000-2012 Agilent Technologies

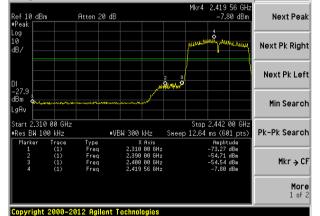


Highest channel

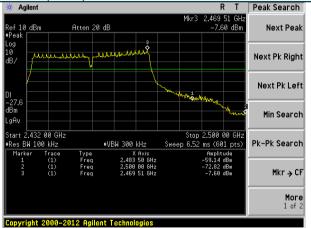








Lowest channel



Highest channel



7.6.2 Radiated Emission Method

| Test Requirement: | FCC Part15 C S | | and 15.205 | | | | | | |
|-----------------------|--|---|--|---|---|--|--|--|--|
| Test Method: | | ANSI C63.10:2013 | | | | | | | |
| Test Frequency Range: | | All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed. | | | | | | | |
| Test site: | Measurement D | Measurement Distance: 3m | | | | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Value | | | | |
| • | | Peak | 1MHz | 3MHz | Peak | | | | |
| | Above 1GHz | RMS | 1MHz | 3MHz | Average | | | | |
| Limit: | Freque | | Limit (dBuV/ | | Value | | | | |
| | Above 1 | CU-7 | 54.0 | 0 | Average | | | | |
| | Above | IGHZ | 74.0 | 0 | Peak | | | | |
| | Tum Tables 150cm > 1 | < 3m >- | Test Antenna | plifier | SE Y | | | | |
| Test Procedure: | determine the 2. The EUT was antenna, whis tower. 3. The antenna ground to de horizontal and measuremer 4. For each sus and then the and the rotal the maximum 5. The test-recesspecified Ba 6. If the emission limit specified the EUT would 10dB margin average met 7. The radiation And found the | t a 3 meter can e position of the s set 3 meters ch was mounte height is varied termine the ma d vertical polar nt. spected emissic antenna was to table was turne n reading. eiver system wa ndwidth with M on level of the E d, then testing of lid be reported. would be re-te hod as specifie | nber. The take highest race away from the don the top of the top o | ole was rotated liation. The interference of a variable meter to four report of the field state antenna are was arranged at the from 1 meters from 1 meters from 1 meters from 2 mode was 10 mode and the free emissions one using period in X, Y, Z is worse cases | ed 360 degrees to ee-receiving theight antenna meters above the strength. Both the set to make the did to its worst case eter to 4 meters degrees to find action and DdB lower than the peak values of that did not have eak, quasi-peak or | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | | | | |
| | Refer to section | Refer to section 5.2 for details | | | | | | | |
| Test mode: | | | | | | | | | |

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Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

| Test mode: 802.11b Test char | | | | channel: Lowest | | | | | | |
|------------------------------|-------------------------|-----------------------------|---------------------------------------|------------------------|---------------|------------------|------------------------|-----------------------|--------------|--|
| Peak value: | | | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Pream Facto (dB) | r (| Level dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | |
| 2310.00 | 49.44 | 27.91 | 5.30 | 24.64 | 1 | 58.01 | 74.00 | -15.99 | Horizontal | |
| 2390.00 | 53.71 | 27.59 | 5.38 | 24.71 | 1 | 61.97 | 74.00 | -12.03 | Horizontal | |
| 2310.00 | 50.97 | 27.91 | 5.30 | 24.64 | 1 | 59.54 | 74.00 | -14.46 | Vertical | |
| 2390.00 | 54.92 | 27.59 | 5.38 | 24.71 | 1 | 63.18 | 74.00 | -10.82 | Vertical | |
| Average val | lue: | | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Pream Facto (dB) | r (| Level dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | |
| 2310.00 | 36.84 | 27.91 | 5.30 | 24.64 | 1 | 45.41 | 54.00 | -8.59 | Horizontal | |
| 2390.00 | 39.89 | 27.59 | 5.38 | 24.71 | 1 | 48.15 | 54.00 | -5.85 | Horizontal | |
| 2310.00 | 38.48 | 27.91 | 5.30 | 24.64 | 1 | 47.05 | 54.00 | -6.95 | Vertical | |
| 2390.00 | 40.85 | 27.59 | 5.38 | 24.71 | | 49.11 | 54.00 | -4.89 | Vertical | |
| | | | | | | | | | | |
| Test mode: | | 802.1 | 1b | | Test channel: | | | Highest | | |
| Peak value: | | <u> </u> | | I _ | | | | | Γ | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Pream Facto (dB) | r (| Level dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | |
| 2483.50 | 49.15 | 27.53 | 5.47 | 24.80 |) | 57.35 | 74.00 | -16.65 | Horizontal | |
| 2500.00 | 45.69 | 27.55 | 5.49 | 24.86 | 3 | 53.87 | 74.00 | -20.13 | Horizontal | |
| 2483.50 | 49.96 | 27.53 | 5.47 | 24.80 |) | 58.16 | 74.00 | -15.84 | Vertical | |
| 2500.00 | 46.78 | 27.55 | 5.49 | 24.86 | 3 | 54.96 | 74.00 | -19.04 | Vertical | |
| Average va | lue: | | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Pream Facto (dB) | r (| Level dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | |
| 2483.50 | 34.87 | 27.53 | 5.47 | 24.80 |) | 43.07 | 54.00 | -10.93 | Horizontal | |
| 2500.00 | 33.39 | 27.55 | 5.49 | 24.86 | 3 | 41.57 | 54.00 | -12.43 | Horizontal | |
| | | | · · · · · · · · · · · · · · · · · · · | | _ | | E 4 00 | 40.40 | | |
| 2483.50 | 35.62 | 27.53 | 5.47 | 24.80 |) | 43.82 | 54.00 | -10.18 | Vertical | |

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.



Report No.: GTS201803000219F03

| Test mode: | | 802.1 | 1g | Te | est channel: | | Lowest | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|------------------|------------------------|--|
| Peak value: | | • | | | | • | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | I I imit | Polarization | |
| 2310.00 | 49.49 | 27.91 | 5.30 | 24.64 | 58.06 | 74.00 | -15.94 | Horizontal | |
| 2390.00 | 53.77 | 27.59 | 5.38 | 24.71 | 62.03 | 74.00 | -11.97 | Horizontal | |
| 2310.00 | 51.02 | 27.91 | 5.30 | 24.64 | 59.59 | 74.00 | -14.41 | Vertical | |
| 2390.00 | 54.99 | 27.59 | 5.38 | 24.71 | 63.25 | 74.00 | -10.75 | Vertical | |
| Average va | lue: | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Limit | Polarization | |
| 2310.00 | 36.87 | 27.91 | 5.30 | 24.64 | 45.44 | 54.00 | -8.56 | Horizontal | |
| 2390.00 | 39.93 | 27.59 | 5.38 | 24.71 | 48.19 | 54.00 | -5.81 | Horizontal | |
| 2310.00 | 38.52 | 27.91 | 5.30 | 24.64 | 47.09 | 54.00 | -6.91 | Vertical | |
| 2390.00 | 40.89 | 27.59 | 5.38 | 24.71 | 49.15 | 54.00 | -4.85 | Vertical | |
| | | | | | | | | | |
| Test mode: | | 802.11g | | Te | Test channel: | | Highest | | |
| Peak value: | | | | | _ | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | I I imit | Polarization | |
| 2483.50 | 49.21 | 27.53 | 5.47 | 24.80 | 57.41 | 74.00 | -16.59 | Horizontal | |
| 2500.00 | 45.73 | 27.55 | 5.49 | 24.86 | 53.91 | 74.00 | -20.09 | Horizontal | |
| 2483.50 | 50.03 | 27.53 | 5.47 | 24.80 | 58.23 | 74.00 | -15.77 | Vertical | |
| 2500.00 | 46.84 | 27.55 | 5.49 | 24.86 | 55.02 | 74.00 | -18.98 | Vertical | |
| Average va | lue: | | | | _ | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | I I imit | Polarization | |
| | | 27.53 | 5.47 | 24.80 | 43.11 | 54.00 | -10.89 | Horizontal | |
| 2483.50 | 34.91 | 27.53 | 0.17 | | | | | | |
| 2483.50 2500.00 | 34.91 33.42 | 27.55 | 5.49 | 24.86 | 41.60 | 54.00 | -12.40 | Horizontal | |
| | | | | | 41.60 43.86 | 54.00 54.00 | -12.40 -10.14 | Horizontal Vertical | |

Global United Technology Services Co., Ltd.

1.

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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.

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Test mode:

Report No.: GTS201803000219F03

Lowest

| rest mode. | | 002.1 | 111(11120) | 16 | si Charinei. | L | -OWESI | |
|---|--|------------------------------------|---|--|--|---|---|---|
| Peak value: | • | | | | | | | |
| 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) | Polarization |
| 2310.00 | 50.03 | 27.91 | 5.30 | 24.64 | 58.60 | 74.00 | -15.40 | Horizontal |
| 2390.00 | 54.50 | 27.59 | 5.38 | 24.71 | 62.76 | 74.00 | -11.24 | Horizontal |
| 2310.00 | 51.60 | 27.91 | 5.30 | 24.64 | 60.17 | 74.00 | -13.83 | Vertical |
| 2390.00 | 55.86 | 27.59 | 5.38 | 24.71 | 64.12 | 74.00 | -9.88 | Vertical |
| Average va | lue: | | | | | | | |
| 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) | Polarization |
| 2310.00 | 37.26 | 27.91 | 5.30 | 24.64 | 45.83 | 54.00 | -8.17 | Horizontal |
| 2390.00 | 40.37 | 27.59 | 5.38 | 24.71 | 48.63 | 54.00 | -5.37 | Horizontal |
| 2310.00 | 38.95 | 27.91 | 5.30 | 24.64 | 47.52 | 54.00 | -6.48 | Vertical |
| 2390.00 | 41.38 | 27.59 | 5.38 | 24.71 | 49.64 | 54.00 | -4.36 | Vertical |
| | | | | | | | | |
| Test mode: | | 802.1 | 1n(HT20) | Tes | st channel: | ŀ | Highest | |
| Peak value: | | | | | , | | | |
| 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) | Polarization |
| 2483.50 | 49.99 | 27.53 | 5.47 | 24.80 | 58.19 | 74.00 | -15.81 | Horizontal |
| 2500.00 | 46.34 | 27.55 | 5.49 | 24.86 | 54.50 | 74.00 | 10.40 | Horizontol |
| 2483.50 | | | 0.70 | 24.00 | 54.52 | 74.00 | -19.48 | Horizontal |
| 2403.30 | 50.92 | 27.53 | 5.47 | 24.80 | 54.52 59.12 | 74.00 | -14.88 | Vertical |
| 2500.00 | 50.92 47.54 | 27.53 27.55 | | | | | | |
| | 47.54 | | 5.47 | 24.80 | 59.12 | 74.00 | -14.88 | Vertical |
| 2500.00 | 47.54 | | 5.47 | 24.80 | 59.12 | 74.00 | -14.88 | Vertical |
| 2500.00 Average va Frequency | 47.54 lue: Read Level | 27.55 Antenna Factor | 5.47 5.49 Cable Loss | 24.80 24.86 Preamp Factor | 59.12 55.72 Level | 74.00 74.00 Limit Line | -14.88 -18.28 Over Limit | Vertical Vertical |
| 2500.00 Average va Frequency (MHz) | 47.54 lue: Read Level (dBuV) | 27.55 Antenna Factor (dB/m) | 5.47 5.49 Cable Loss (dB) | 24.80 24.86 Preamp Factor (dB) | 59.12 55.72 Level (dBuV/m) | 74.00 74.00 Limit Line (dBuV/m) | -14.88 -18.28 Over Limit (dB) | Vertical Vertical Polarization |
| 2500.00 Average va Frequency (MHz) 2483.50 | 47.54 Iue: Read Level (dBuV) 35.38 | 27.55 Antenna Factor (dB/m) 27.53 | 5.47 5.49 Cable Loss (dB) 5.47 | 24.80 24.86 Preamp Factor (dB) 24.80 | 59.12 55.72 Level (dBuV/m) 43.58 | 74.00 74.00 Limit Line (dBuV/m) 54.00 | -14.88 -18.28 Over Limit (dB) -10.42 | Vertical Vertical Polarization Horizontal |

Test channel:

802.11n(HT20)

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:

Report No.: GTS201803000219F03

Lowest

| rest mode. | | 002.1 | 111(11140) | 10. | si Charinei. | - | | |
|---|---|--|---|---|--|---|--|--|
| Peak value: | | | | | | | | |
| 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) | Polarization |
| 2310.00 | 49.72 | 27.91 | 5.30 | 24.64 | 58.29 | 74.00 | -15.71 | Horizontal |
| 2390.00 | 54.09 | 27.59 | 5.38 | 24.71 | 62.35 | 74.00 | -11.65 | Horizontal |
| 2310.00 | 51.27 | 27.91 | 5.30 | 24.64 | 59.84 | 74.00 | -14.16 | Vertical |
| 2390.00 | 55.37 | 27.59 | 5.38 | 24.71 | 63.63 | 74.00 | -10.37 | Vertical |
| Average va | lue: | | | | | | | |
| 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) | Polarization |
| 2310.00 | 37.04 | 27.91 | 5.30 | 24.64 | 45.61 | 54.00 | -8.39 | Horizontal |
| 2390.00 | 40.13 | 27.59 | 5.38 | 24.71 | 48.39 | 54.00 | -5.61 | Horizontal |
| 2310.00 | 38.71 | 27.91 | 5.30 | 24.64 | 47.28 | 54.00 | -6.72 | Vertical |
| 2390.00 | 41.10 | 27.59 | 5.38 | 24.71 | 49.36 | 54.00 | -4.64 | Vertical |
| | | | | | | | | |
| Test mode: | | 802.1 | 1n(HT40) | Tes | st channel: | ŀ | Highest | |
| Peak value: | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Polarization |
| | (4241) | (dB/m) | (dB) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| 2483.50 | 49.55 | (dB/m) 27.53 | (dB) 5.47 | (dB) 24.80 | (dBuV/m) 57.75 | (dBuV/m) 74.00 | | Horizontal |
| 2483.50 2500.00 | , , | <u> </u> | , , | , , | , | , | (dB) | Horizontal Horizontal |
| | 49.55 | 27.53 | 5.47 | 24.80 | 57.75 | 74.00 | (dB) -16.25 | |
| 2500.00 | 49.55 46.00 | 27.53 27.55 | 5.47 5.49 | 24.80 24.86 | 57.75 54.18 | 74.00 74.00 | (dB) -16.25 -19.82 | Horizontal |
| 2500.00 2483.50 | 49.55 46.00 50.42 47.15 | 27.53 27.55 27.53 | 5.47 5.49 5.47 | 24.80 24.86 24.80 | 57.75 54.18 58.62 | 74.00 74.00 74.00 | (dB) -16.25 -19.82 -15.38 | Horizontal Vertical |
| 2500.00 2483.50 2500.00 | 49.55 46.00 50.42 47.15 | 27.53 27.55 27.53 | 5.47 5.49 5.47 | 24.80 24.86 24.80 | 57.75 54.18 58.62 | 74.00 74.00 74.00 | (dB) -16.25 -19.82 -15.38 | Horizontal Vertical |
| 2500.00 2483.50 2500.00 Average va Frequency | 49.55 46.00 50.42 47.15 lue: Read Level | 27.53 27.55 27.53 27.55 Antenna Factor | 5.47 5.49 5.47 5.49 Cable Loss | 24.80 24.86 24.80 24.86 Preamp Factor | 57.75 54.18 58.62 55.33 | 74.00 74.00 74.00 74.00 | (dB) -16.25 -19.82 -15.38 -18.67 Over Limit | Horizontal Vertical Vertical |
| 2500.00 2483.50 2500.00 Average va Frequency (MHz) | 49.55 46.00 50.42 47.15 Iue: Read Level (dBuV) | 27.53 27.55 27.53 27.55 Antenna Factor (dB/m) | 5.47 5.49 5.47 5.49 Cable Loss (dB) | 24.80 24.86 24.80 24.86 Preamp Factor (dB) | 57.75 54.18 58.62 55.33 Level (dBuV/m) | 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) | (dB) -16.25 -19.82 -15.38 -18.67 Over Limit (dB) | Horizontal Vertical Vertical Polarization |
| 2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50 | 49.55 46.00 50.42 47.15 lue: Read Level (dBuV) 35.11 | 27.53 27.55 27.53 27.55 Antenna Factor (dB/m) 27.53 | 5.47 5.49 5.47 5.49 Cable Loss (dB) 5.47 | 24.80 24.86 24.80 24.86 Preamp Factor (dB) 24.80 | 57.75 54.18 58.62 55.33 Level (dBuV/m) 43.31 | 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00 | (dB) -16.25 -19.82 -15.38 -18.67 Over Limit (dB) -10.69 | Horizontal Vertical Vertical Polarization Horizontal |

Test channel:

802.11n(HT40)

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.



7.7 Spurious Emission

7.7.1 Conducted Emission Method

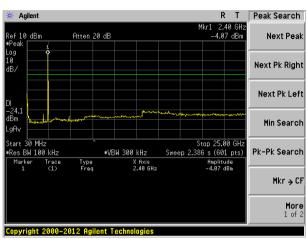
| Test Requirement: | FCC Part15 C Section 15.247 (d) | | | | |
|-------------------|---|--|--|--|--|
| Test Method: | KDB558074 D01 DTS Meas Guidance V03 | | | | |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio 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. | | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | |
| Test mode: | Refer to section 5.2 for details | | | | |
| Test results: | Pass | | | | |



Test plot as follows:

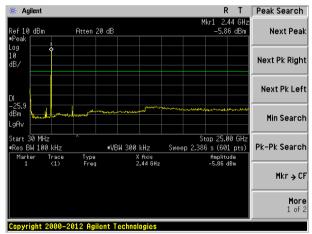
Test mode: 802.11b

Lowest channel



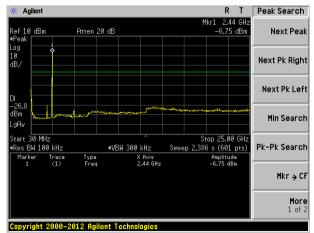
30MHz~25GHz

Middle channel



Highest channel

30MHz~25GHz

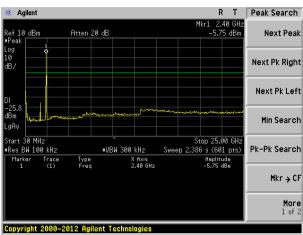


30MHz~25GHz



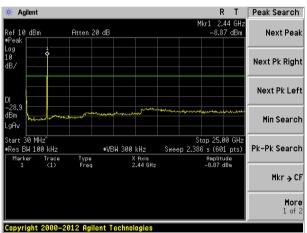
Test mode: 802.11g

Lowest channel



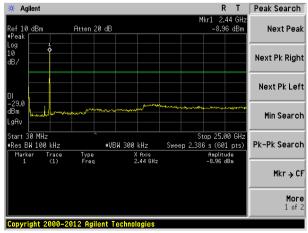
30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel

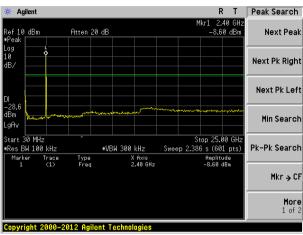


30MHz~25GHz



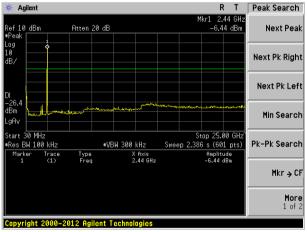
Test mode: 802.11n(HT20)

Lowest channel



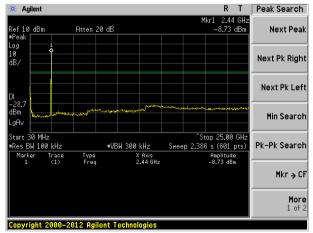
30MHz~25GHz

Middle channel



Highest channel





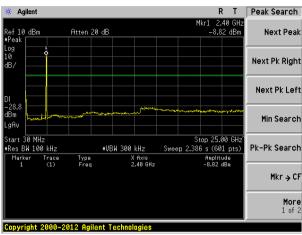
30MHz~25GHz

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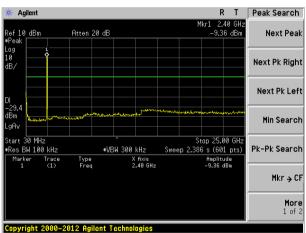
Test mode: 802.11n(HT40)

Lowest channel



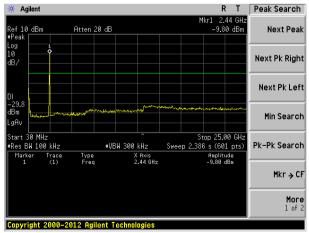
30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel



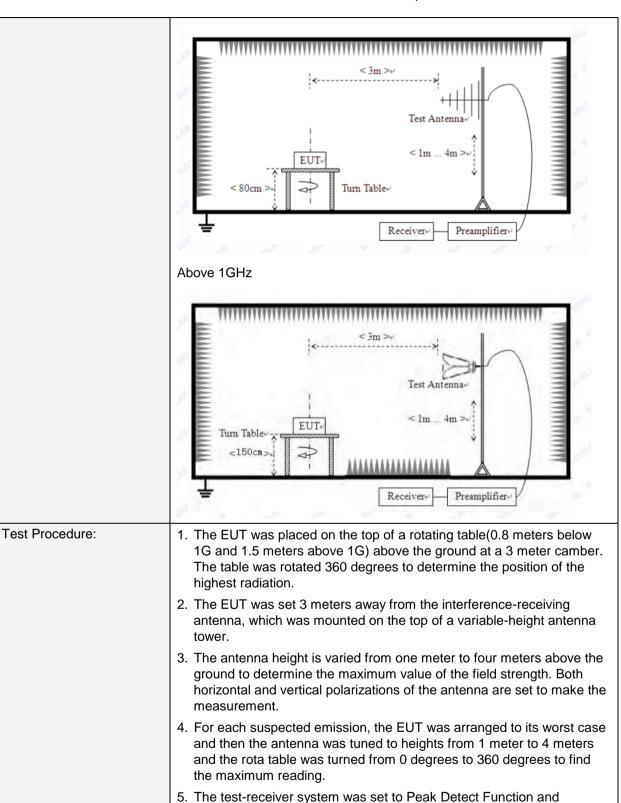
30MHz~25GHz



7.7.2 Radiated Emission Method

| Test Requirement: | FCC Part15 C Section 15.209 | | | | | | | | | |
|-----------------------|-------------------------------------|---------------------------|------------|-----------------|------------------|--|--|--|--|--|
| Test Method: | ANSI C63.10:2013 | | | | | | | | | |
| Test Frequency Range: | 9kHz to 25GHz | | | | | | | | | |
| Test site: | Measurement D | Distance: 3m | | | | | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Remark | | | | | |
| | 9kHz- 150kHz | Quasi-peak | 200Hz | 300Hz | Quasi-peak Value | | | | | |
| | 150kHz- 30MHz | Quasi-peak | 9kHz | 10kHz | Quasi-peak Value | | | | | |
| | 30MHz- 1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-peak Value | | | | | |
| | Above 1GHz | Peak 1MHz 3MHz Peak Value | | | | | | | | |
| | Above IGHZ | Peak | 1MHz | 10Hz | Average Value | | | | | |
| Limit: | Freque | ency | Limit (u | V/m) | Remark | | | | | |
| | 0.009MHz-0 | .490MHz | 2400/F(kHz |) @300m | Quasi-peak Value | | | | | |
| | 0.490MHz-1 | .705MHz | 24000/F(kH | z) @30m | Quasi-peak Value | | | | | |
| | 1.705MHz- | | 30 @3 | | Quasi-peak Value | | | | | |
| | 30MHz-8 | | 100 @ | | Quasi-peak Value | | | | | |
| | 88MHz-2 | | 150 @ | | Quasi-peak Value | | | | | |
| | 216MHz-9 | | 200 @ | | Quasi-peak Value | | | | | |
| | 960MHz- | -1GHz | 500 @ | | Quasi-peak Value | | | | | |
| | Above 1 | IGHz | 500 @ | | Average Value | | | | | |
| | 713070 | | 5000 @ | 23m | Peak Value | | | | | |
| Test setup: | Below 1GHz Turntable Ground Plane | 0.8 r | | Coaxial Cable / | Test Receiver | | | | | |





Specified Bandwidth with Maximum Hold Mode.

6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of



| | the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. |
|-------------------|---|
| | 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report. |
| Test Instruments: | Refer to section 6.0 for details |
| Test mode: | Refer to section 5.2 for details |
| Test results: | Pass |

Remark:

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



Measurement Data

■ Below 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

■ Below 1GHz

| 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) | polarization |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 32.29 | 58.15 | 11.25 | 0.58 | 35.17 | 34.81 | 40.00 | -5.19 | Vertical |
| 45.54 | 58.50 | 12.26 | 0.72 | 35.96 | 35.52 | 40.00 | -4.48 | Vertical |
| 114.11 | 60.13 | 10.43 | 1.31 | 36.84 | 35.03 | 43.50 | -8.47 | Vertical |
| 148.44 | 67.42 | 7.57 | 1.56 | 37.07 | 39.48 | 43.50 | -4.02 | Vertical |
| 159.78 | 67.10 | 8.30 | 1.63 | 37.13 | 39.90 | 43.50 | -3.60 | Vertical |
| 228.49 | 62.26 | 11.45 | 2.01 | 37.36 | 38.36 | 46.00 | -7.64 | Vertical |
| 136.94 | 66.05 | 7.64 | 1.48 | 37.00 | 38.17 | 43.50 | -5.33 | Horizontal |
| 159.23 | 67.35 | 8.25 | 1.62 | 37.13 | 40.09 | 43.50 | -3.41 | Horizontal |
| 205.68 | 63.93 | 10.62 | 1.88 | 37.34 | 39.09 | 43.50 | -4.41 | Horizontal |
| 251.18 | 64.24 | 12.18 | 2.13 | 37.38 | 41.17 | 46.00 | -4.83 | Horizontal |
| 297.22 | 57.02 | 13.53 | 2.35 | 37.42 | 35.48 | 46.00 | -10.52 | Horizontal |
| 755.39 | 52.76 | 20.66 | 4.29 | 37.62 | 40.09 | 46.00 | -5.91 | Horizontal |



■ Above 1GHz

| Test mode: | | 802.11b | | Tes | t channel: | I | Lowest | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|-------------------|----------|--------------|
| Peak value: | | | | • | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit L (dBuV/ | - Limit | polarization |
| 4824.00 | 37.99 | 31.79 | 8.62 | 32.10 | 46.30 | 74.0 | 0 -27.70 | Vertical |
| 7236.00 | 32.76 | 36.19 | 11.68 | 31.97 | 48.66 | 74.0 | 0 -25.34 | Vertical |
| 9648.00 | 31.67 | 38.07 | 14.16 | 31.56 | 52.34 | 74.0 | 0 -21.66 | Vertical |
| 12060.00 | * | | | | | 74.0 | 0 | Vertical |
| 14472.00 | * | | | | | 74.0 | 0 | Vertical |
| 16884.00 | * | | | | | 74.0 | 0 | Vertical |
| 4824.00 | 37.02 | 31.79 | 8.62 | 32.10 | 45.33 | 74.0 | 0 -28.67 | Horizontal |
| 7236.00 | 32.69 | 36.19 | 11.68 | 31.97 | 48.59 | 74.0 | 0 -25.41 | Horizontal |
| 9648.00 | 31.33 | 38.07 | 14.16 | 31.56 | 52.00 | 74.0 | 0 -22.00 | Horizontal |
| 12060.00 | * | | | | | 74.0 | 0 | Horizontal |
| 14472.00 | * | | | | | 74.0 | 0 | Horizontal |
| 16884.00 | * | | | | | 74.0 | 0 | Horizontal |
| Average val | | | | | | | | 1 |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit L (dBuV/ | I I imit | polarization |
| 4824.00 | 27.25 | 31.79 | 8.62 | 32.10 | 35.56 | 54.0 | 0 -18.44 | Vertical |
| 7236.00 | 21.68 | 36.19 | 11.68 | 31.97 | 37.58 | 54.0 | 0 -16.42 | Vertical |
| 9648.00 | 22.06 | 38.07 | 14.16 | 31.56 | 42.73 | 54.0 | 0 -11.27 | Vertical |
| 12060.00 | * | | | | | 54.0 | 0 | Vertical |
| 14472.00 | * | | | | | 54.0 | 0 | Vertical |
| 16884.00 | * | | | | | 54.0 | 0 | Vertical |
| 4824.00 | 26.68 | 31.79 | 8.62 | 32.10 | 34.99 | 54.0 | 0 -19.01 | Horizontal |
| 7236.00 | 21.31 | 36.19 | 11.68 | 31.97 | 37.21 | 54.0 | 0 -16.79 | Horizontal |
| 9648.00 | 21.11 | 38.07 | 14.16 | 31.56 | 41.78 | 54.0 | 0 -12.22 | Horizontal |
| 12060.00 | * | | | | | 54.0 | 0 | Horizontal |
| 14472.00 | * | | | | | 54.0 | 0 | Horizontal |

Remark:

16884.00

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Horizontal

54.00

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11b | | Test | channel: | Midd | le | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Peak value: | | | | | | | | |
| 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) | polarization |
| 4874.00 | 37.44 | 31.85 | 8.66 | 32.12 | 45.83 | 74.00 | -28.17 | Vertical |
| 7311.00 | 33.09 | 36.37 | 11.71 | 31.91 | 49.26 | 74.00 | -24.74 | Vertical |
| 9748.00 | 32.87 | 38.27 | 14.25 | 31.56 | 53.83 | 74.00 | -20.17 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 38.22 | 31.85 | 8.66 | 32.12 | 46.61 | 74.00 | -27.39 | Horizontal |
| 7311.00 | 31.88 | 36.37 | 11.71 | 31.91 | 48.05 | 74.00 | -25.95 | Horizontal |
| 9748.00 | 32.83 | 38.27 | 14.25 | 31.56 | 53.79 | 74.00 | -20.21 | Horizontal |
| 12185.00 | * | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | 74.00 | | Horizontal |
| Average val | ue: | | | | | | | |
| 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) | polarization |
| 4874.00 | 28.45 | 31.85 | 8.66 | 32.12 | 36.84 | 54.00 | -17.16 | Vertical |
| 7311.00 | 21.44 | 36.37 | 11.71 | 31.91 | 37.61 | 54.00 | -16.39 | Vertical |
| 9748.00 | 22.16 | 38.27 | 14.25 | 31.56 | 43.12 | 54.00 | -10.88 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 28.43 | 31.85 | 8.66 | 32.12 | 36.82 | 54.00 | -17.18 | Horizontal |
| 7311.00 | 21.00 | 36.37 | 11.71 | 31.91 | 37.17 | 54.00 | -16.83 | Horizontal |
| 9748.00 | 22.57 | 38.27 | 14.25 | 31.56 | 43.53 | 54.00 | -10.47 | Horizontal |
| 12185.00 | * | | | | | 54.00 | | Horizontal |
| 14622.00 | * | | | | | 54.00 | | Horizontal |
| 17059.00 | * | | | | | 54.00 | | Horizontal |

Remark:

Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor
 "*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11b | | Test | channel: | Highe | est | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Peak value: | | | | | | | | |
| 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) | polarization |
| 4924.00 | 41.60 | 31.90 | 8.70 | 32.15 | 50.05 | 74.00 | -23.95 | Vertical |
| 7386.00 | 32.89 | 36.49 | 11.76 | 31.83 | 49.31 | 74.00 | -24.69 | Vertical |
| 9848.00 | 35.54 | 38.62 | 14.31 | 31.77 | 56.70 | 74.00 | -17.30 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 41.41 | 31.90 | 8.70 | 32.15 | 49.86 | 74.00 | -24.14 | Horizontal |
| 7386.00 | 32.05 | 36.49 | 11.76 | 31.83 | 48.47 | 74.00 | -25.53 | Horizontal |
| 9848.00 | 31.83 | 38.62 | 14.31 | 31.77 | 52.99 | 74.00 | -21.01 | Horizontal |
| 12310.00 | * | | | | | 74.00 | | Horizontal |
| 14772.00 | * | | | | | 74.00 | | Horizontal |
| 17234.00 | * | | | | | 74.00 | | Horizontal |
| Average val | ue: | | | | | | | |
| 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) | polarization |
| 4924.00 | 32.77 | 31.90 | 8.70 | 32.15 | 41.22 | 54.00 | -12.78 | Vertical |
| 7386.00 | 22.88 | 36.49 | 11.76 | 31.83 | 39.30 | 54.00 | -14.70 | Vertical |
| 9848.00 | 24.11 | 38.62 | 14.31 | 31.77 | 45.27 | 54.00 | -8.73 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 31.95 | 31.90 | 8.70 | 32.15 | 40.40 | 54.00 | -13.60 | Horizontal |
| 7386.00 | 21.49 | 36.49 | 11.76 | 31.83 | 37.91 | 54.00 | -16.09 | Horizontal |
| 9848.00 | 21.14 | 38.62 | 14.31 | 31.77 | 42.30 | 54.00 | -11.70 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 54.00 | | Horizontal |

Remark:

Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor
 "*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11g | | Test | channel: | lowe | st | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Peak value: | | | | | | | | |
| 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) | polarization |
| 4824.00 | 38.23 | 31.79 | 8.62 | 32.10 | 46.54 | 74.00 | -27.46 | Vertical |
| 7236.00 | 32.92 | 36.19 | 11.68 | 31.97 | 48.82 | 74.00 | -25.18 | Vertical |
| 9648.00 | 31.78 | 38.07 | 14.16 | 31.56 | 52.45 | 74.00 | -21.55 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 37.22 | 31.79 | 8.62 | 32.10 | 45.53 | 74.00 | -28.47 | Horizontal |
| 7236.00 | 32.83 | 36.19 | 11.68 | 31.97 | 48.73 | 74.00 | -25.27 | Horizontal |
| 9648.00 | 31.43 | 38.07 | 14.16 | 31.56 | 52.10 | 74.00 | -21.90 | Horizontal |
| 12060.00 | * | | | | | 74.00 | | Horizontal |
| 14472.00 | * | | | | | 74.00 | | Horizontal |
| 16884.00 | * | | | | | 74.00 | | Horizontal |
| Average val | ue: | | • | • | | | - | |
| 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) | polarization |
| 4824.00 | 27.48 | 31.79 | 8.62 | 32.10 | 35.79 | 54.00 | -18.21 | Vertical |
| 7236.00 | 21.83 | 36.19 | 11.68 | 31.97 | 37.73 | 54.00 | -16.27 | Vertical |
| 9648.00 | 22.17 | 38.07 | 14.16 | 31.56 | 42.84 | 54.00 | -11.16 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertica |
| 4824.00 | 26.87 | 31.79 | 8.62 | 32.10 | 35.18 | 54.00 | -18.82 | Horizontal |
| 7236.00 | 21.45 | 36.19 | 11.68 | 31.97 | 37.35 | 54.00 | -16.65 | Horizontal |
| 9648.00 | 21.21 | 38.07 | 14.16 | 31.56 | 41.88 | 54.00 | -12.12 | Horizontal |
| 12060.00 | * | | | | | 54.00 | | Horizontal |
| 14472.00 | * | | | | | 54.00 | | Horizontal |
| 16884.00 | * | | | | | 54.00 | | Horizontal |

Remark:

Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor
 "*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11g | | Test | channel: | Midd | le | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Peak value: | | | | | | | | |
| 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) | polarization |
| 4874.00 | 37.65 | 31.85 | 8.66 | 32.12 | 46.04 | 74.00 | -27.96 | Vertical |
| 7311.00 | 33.21 | 36.37 | 11.71 | 31.91 | 49.38 | 74.00 | -24.62 | Vertical |
| 9748.00 | 32.96 | 38.27 | 14.25 | 31.56 | 53.92 | 74.00 | -20.08 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 38.39 | 31.85 | 8.66 | 32.12 | 46.78 | 74.00 | -27.22 | Horizontal |
| 7311.00 | 31.99 | 36.37 | 11.71 | 31.91 | 48.16 | 74.00 | -25.84 | Horizontal |
| 9748.00 | 32.91 | 38.27 | 14.25 | 31.56 | 53.87 | 74.00 | -20.13 | Horizontal |
| 12185.00 | * | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | 74.00 | | Horizontal |
| Average val | ue: | | | | | | | |
| 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) | polarization |
| 4874.00 | 28.63 | 31.85 | 8.66 | 32.12 | 37.02 | 54.00 | -16.98 | Vertical |
| 7311.00 | 21.57 | 36.37 | 11.71 | 31.91 | 37.74 | 54.00 | -16.26 | Vertical |
| 9748.00 | 22.25 | 38.27 | 14.25 | 31.56 | 43.21 | 54.00 | -10.79 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 28.59 | 31.85 | 8.66 | 32.12 | 36.98 | 54.00 | -17.02 | Horizontal |
| 7311.00 | 21.10 | 36.37 | 11.71 | 31.91 | 37.27 | 54.00 | -16.73 | Horizontal |
| 9748.00 | 22.65 | 38.27 | 14.25 | 31.56 | 43.61 | 54.00 | -10.39 | Horizontal |
| 12185.00 | * | | | | | 54.00 | | Horizontal |
| 14622.00 | * | | | | | 54.00 | | Horizontal |
| 17059.00 | * | | | | | 54.00 | | Horizontal |

Remark:

Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor
 "*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11g | | Test | channel: | Highe | est | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Peak value: | | 1 | | | | • | | |
| 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) | polarization |
| 4924.00 | 41.94 | 31.90 | 8.70 | 32.15 | 50.39 | 74.00 | -23.61 | Vertical |
| 7386.00 | 33.11 | 36.49 | 11.76 | 31.83 | 49.53 | 74.00 | -24.47 | Vertical |
| 9848.00 | 35.70 | 38.62 | 14.31 | 31.77 | 56.86 | 74.00 | -17.14 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 41.71 | 31.90 | 8.70 | 32.15 | 50.16 | 74.00 | -23.84 | Horizontal |
| 7386.00 | 32.24 | 36.49 | 11.76 | 31.83 | 48.66 | 74.00 | -25.34 | Horizontal |
| 9848.00 | 31.97 | 38.62 | 14.31 | 31.77 | 53.13 | 74.00 | -20.87 | Horizontal |
| 12310.00 | * | | | | | 74.00 | | Horizontal |
| 14772.00 | * | | | | | 74.00 | | Horizontal |
| 17234.00 | * | | | | | 74.00 | | Horizontal |
| Average value | | | | | | | | |
| 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) | polarization |
| 4924.00 | 33.09 | 31.90 | 8.70 | 32.15 | 41.54 | 54.00 | -12.46 | Vertical |
| 7386.00 | 23.09 | 36.49 | 11.76 | 31.83 | 39.51 | 54.00 | -14.49 | Vertical |
| 9848.00 | 24.26 | 38.62 | 14.31 | 31.77 | 45.42 | 54.00 | -8.58 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 32.22 | 31.90 | 8.70 | 32.15 | 40.67 | 54.00 | -13.33 | Horizontal |
| 7386.00 | 21.68 | 36.49 | 11.76 | 31.83 | 38.10 | 54.00 | -15.90 | Horizontal |
| 9848.00 | 21.28 | 38.62 | 14.31 | 31.77 | 42.44 | 54.00 | -11.56 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 54.00 | | Horizontal |

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11n(H | IT20) | Test | channel: | Lowe | st | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Peak value: | | | | | | | | |
| 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) | polarization |
| 4824.00 | 37.67 | 31.79 | 8.62 | 32.10 | 45.98 | 74.00 | -28.02 | Vertical |
| 7236.00 | 32.56 | 36.19 | 11.68 | 31.97 | 48.46 | 74.00 | -25.54 | Vertical |
| 9648.00 | 31.53 | 38.07 | 14.16 | 31.56 | 52.20 | 74.00 | -21.80 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 36.75 | 31.79 | 8.62 | 32.10 | 45.06 | 74.00 | -28.94 | Horizontal |
| 7236.00 | 32.52 | 36.19 | 11.68 | 31.97 | 48.42 | 74.00 | -25.58 | Horizontal |
| 9648.00 | 31.20 | 38.07 | 14.16 | 31.56 | 51.87 | 74.00 | -22.13 | Horizontal |
| 12060.00 | * | | | | | 74.00 | | Horizontal |
| 14472.00 | * | | | | | 74.00 | | Horizontal |
| 16884.00 | * | | | | | 74.00 | | Horizontal |
| Average val | ue: | | | | | | | |
| 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) | polarization |
| 4824.00 | 26.96 | 31.79 | 8.62 | 32.10 | 35.27 | 54.00 | -18.73 | Vertical |
| 7236.00 | 21.49 | 36.19 | 11.68 | 31.97 | 37.39 | 54.00 | -16.61 | Vertical |
| 9648.00 | 21.92 | 38.07 | 14.16 | 31.56 | 42.59 | 54.00 | -11.41 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4824.00 | 26.43 | 31.79 | 8.62 | 32.10 | 34.74 | 54.00 | -19.26 | Horizontal |
| 7236.00 | 21.15 | 36.19 | 11.68 | 31.97 | 37.05 | 54.00 | -16.95 | Horizontal |
| 9648.00 | 20.99 | 38.07 | 14.16 | 31.56 | 41.66 | 54.00 | -12.34 | Horizontal |
| 12060.00 | * | | | | | 54.00 | | Horizontal |
| 14472.00 | * | | | | | 54.00 | | Horizontal |
| 16884.00 | * | | | | | 54.00 | | Horizontal |

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11n(H | IT20) | Test | channel: | Midd | le | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Peak value: | | | | | | | | |
| 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) | polarization |
| 4874.00 | 37.18 | 31.85 | 8.66 | 32.12 | 45.57 | 74.00 | -28.43 | Vertical |
| 7311.00 | 32.92 | 36.37 | 11.71 | 31.91 | 49.09 | 74.00 | -24.91 | Vertical |
| 9748.00 | 32.75 | 38.27 | 14.25 | 31.56 | 53.71 | 74.00 | -20.29 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 38.00 | 31.85 | 8.66 | 32.12 | 46.39 | 74.00 | -27.61 | Horizontal |
| 7311.00 | 31.73 | 36.37 | 11.71 | 31.91 | 47.90 | 74.00 | -26.10 | Horizontal |
| 9748.00 | 32.72 | 38.27 | 14.25 | 31.56 | 53.68 | 74.00 | -20.32 | Horizontal |
| 12185.00 | * | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | 74.00 | | Horizontal |
| Average val | ue: | | • | • | | | | |
| 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) | polarization |
| 4874.00 | 28.21 | 31.85 | 8.66 | 32.12 | 36.60 | 54.00 | -17.40 | Vertical |
| 7311.00 | 21.28 | 36.37 | 11.71 | 31.91 | 37.45 | 54.00 | -16.55 | Vertical |
| 9748.00 | 22.05 | 38.27 | 14.25 | 31.56 | 43.01 | 54.00 | -10.99 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 28.23 | 31.85 | 8.66 | 32.12 | 36.62 | 54.00 | -17.38 | Horizontal |
| 7311.00 | 20.86 | 36.37 | 11.71 | 31.91 | 37.03 | 54.00 | -16.97 | Horizontal |
| 9748.00 | 22.47 | 38.27 | 14.25 | 31.56 | 43.43 | 54.00 | -10.57 | Horizontal |
| 12185.00 | * | | | | | 54.00 | | Horizontal |
| 14622.00 | * | | | | | 54.00 | | Horizontal |
| 17059.00 | * | | | | | 54.00 | | Horizontal |

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11n(H | T20) | Test | channel: | Highe | est | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Peak value: | | 1 | | | | • | | |
| 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) | polarization |
| 4924.00 | 41.15 | 31.90 | 8.70 | 32.15 | 49.60 | 74.00 | -24.40 | Vertical |
| 7386.00 | 32.60 | 36.49 | 11.76 | 31.83 | 49.02 | 74.00 | -24.98 | Vertical |
| 9848.00 | 35.34 | 38.62 | 14.31 | 31.77 | 56.50 | 74.00 | -17.50 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 41.03 | 31.90 | 8.70 | 32.15 | 49.48 | 74.00 | -24.52 | Horizontal |
| 7386.00 | 31.80 | 36.49 | 11.76 | 31.83 | 48.22 | 74.00 | -25.78 | Horizontal |
| 9848.00 | 31.64 | 38.62 | 14.31 | 31.77 | 52.80 | 74.00 | -21.20 | Horizontal |
| 12310.00 | * | | | | | 74.00 | | Horizontal |
| 14772.00 | * | | | | | 74.00 | | Horizontal |
| 17234.00 | * | | | | | 74.00 | | Horizontal |
| Average val | ue: | | | | | | | |
| 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) | polarization |
| 4924.00 | 32.36 | 31.90 | 8.70 | 32.15 | 40.81 | 54.00 | -13.19 | Vertical |
| 7386.00 | 22.60 | 36.49 | 11.76 | 31.83 | 39.02 | 54.00 | -14.98 | Vertical |
| 9848.00 | 23.91 | 38.62 | 14.31 | 31.77 | 45.07 | 54.00 | -8.93 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 31.59 | 31.90 | 8.70 | 32.15 | 40.04 | 54.00 | -13.96 | Horizontal |
| 7386.00 | 21.25 | 36.49 | 11.76 | 31.83 | 37.67 | 54.00 | -16.33 | Horizontal |
| 9848.00 | 20.96 | 38.62 | 14.31 | 31.77 | 42.12 | 54.00 | -11.88 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 54.00 | | Horizontal |

Remark:

¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | mode: 802.11n(HT40) | | Test | channel: | Lowest | | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Peak value: | | | | | | | | |
| 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) | polarization |
| 4844.00 | 38.28 | 31.81 | 8.63 | 32.11 | 46.61 | 74.00 | -27.39 | Vertical |
| 7266.00 | 32.94 | 36.28 | 11.69 | 31.94 | 48.97 | 74.00 | -25.03 | Vertical |
| 9688.00 | 31.80 | 38.13 | 14.21 | 31.52 | 52.62 | 74.00 | -21.38 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4844.00 | 37.26 | 31.81 | 8.63 | 32.11 | 45.59 | 74.00 | -28.41 | Horizontal |
| 7266.00 | 32.85 | 36.28 | 11.69 | 31.94 | 48.88 | 74.00 | -25.12 | Horizontal |
| 9688.00 | 31.45 | 38.13 | 14.21 | 31.52 | 52.27 | 74.00 | -21.73 | Horizontal |
| 12060.00 | * | | | | | 74.00 | | Horizontal |
| 14472.00 | * | | | | | 74.00 | | Horizontal |
| 16884.00 | * | | | | | 74.00 | | Horizontal |
| Average val | ue: | | | | | | | |
| 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) | polarization |
| 4844.00 | 27.52 | 31.81 | 8.63 | 32.11 | 35.85 | 54.00 | -18.15 | Vertical |
| 7266.00 | 21.86 | 36.28 | 11.69 | 31.94 | 37.89 | 54.00 | -16.11 | Vertical |
| 9688.00 | 22.19 | 38.13 | 14.21 | 31.52 | 43.01 | 54.00 | -10.99 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |

32.11

31.94

31.52

35.23

37.50

42.05

Remark:

16884.00

4844.00

7266.00

9688.00

12060.00

14472.00

16884.00

8.63

11.69

14.21

26.90

21.47

21.23

*

*

31.81

36.28

38.13

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

-18.77

-16.50

-11.95

Vertical

Horizontal

Horizontal

Horizontal

Horizontal

Horizontal

Horizontal

54.00

54.00

54.00

54.00

54.00

54.00

54.00

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11n(H | 802.11n(HT40) | | Test channel: | | Middle | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Peak value: | | | | | | | | |
| 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) | polarization |
| 4874.00 | 37.68 | 31.85 | 8.66 | 32.12 | 46.07 | 74.00 | -27.93 | Vertical |
| 7311.00 | 33.24 | 36.37 | 11.71 | 31.91 | 49.41 | 74.00 | -24.59 | Vertical |
| 9748.00 | 32.98 | 38.27 | 14.25 | 31.56 | 53.94 | 74.00 | -20.06 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 38.42 | 31.85 | 8.66 | 32.12 | 46.81 | 74.00 | -27.19 | Horizontal |
| 7311.00 | 32.01 | 36.37 | 11.71 | 31.91 | 48.18 | 74.00 | -25.82 | Horizontal |
| 9748.00 | 32.93 | 38.27 | 14.25 | 31.56 | 53.89 | 74.00 | -20.11 | Horizontal |
| 12185.00 | * | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | 74.00 | | Horizontal |
| Average val | ue: | | | | | | | |
| 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) | polarization |
| 4874.00 | 28.67 | 31.85 | 8.66 | 32.12 | 37.06 | 54.00 | -16.94 | Vertical |
| 7311.00 | 21.59 | 36.37 | 11.71 | 31.91 | 37.76 | 54.00 | -16.24 | Vertical |
| 9748.00 | 22.26 | 38.27 | 14.25 | 31.56 | 43.22 | 54.00 | -10.78 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 28.62 | 31.85 | 8.66 | 32.12 | 37.01 | 54.00 | -16.99 | Horizontal |
| 7311.00 | 21.12 | 36.37 | 11.71 | 31.91 | 37.29 | 54.00 | -16.71 | Horizontal |
| 9748.00 | 22.67 | 38.27 | 14.25 | 31.56 | 43.63 | 54.00 | -10.37 | Horizontal |
| 12185.00 | * | | | | | 54.00 | | Horizontal |
| 14622.00 | * | | | | | 54.00 | | Horizontal |
| 17059.00 | * | | | | | 54.00 | | Horizontal |

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.

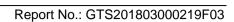


| Test mode: | | 802.11n(HT40) | | Test channel: | | Highest | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Peak value: | | | | | | | | |
| 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) | polarization |
| 4904.00 | 42.01 | 31.88 | 8.68 | 32.13 | 50.44 | 74.00 | -23.56 | Vertical |
| 7356.00 | 33.15 | 36.45 | 11.75 | 31.86 | 49.49 | 74.00 | -24.51 | Vertical |
| 9808.00 | 35.73 | 38.43 | 14.29 | 31.68 | 56.77 | 74.00 | -17.23 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4904.00 | 41.76 | 31.88 | 8.68 | 32.13 | 50.19 | 74.00 | -23.81 | Horizontal |
| 7356.00 | 32.28 | 36.45 | 11.75 | 31.86 | 48.62 | 74.00 | -25.38 | Horizontal |
| 9808.00 | 32.00 | 38.43 | 14.29 | 31.68 | 53.04 | 74.00 | -20.96 | Horizontal |
| 12310.00 | * | | | | | 74.00 | | Horizontal |
| 14772.00 | * | | | | | 74.00 | | Horizontal |
| 17234.00 | * | | | | | 74.00 | | Horizontal |
| Average val | ue: | | | | | | | |
| 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) | polarization |
| 4904.00 | 33.15 | 31.88 | 8.68 | 32.13 | 41.58 | 54.00 | -12.42 | Vertical |
| 7356.00 | 23.13 | 36.45 | 11.75 | 31.86 | 39.47 | 54.00 | -14.53 | Vertical |
| 9808.00 | 24.28 | 38.43 | 14.29 | 31.68 | 45.32 | 54.00 | -8.68 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4904.00 | 32.27 | 31.88 | 8.68 | 32.13 | 40.70 | 54.00 | -13.30 | Horizontal |
| 7356.00 | 21.72 | 36.45 | 11.75 | 31.86 | 38.06 | 54.00 | -15.94 | Horizontal |
| 9808.00 | 21.30 | 38.43 | 14.29 | 31.68 | 42.34 | 54.00 | -11.66 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 54.00 | | Horizontal |

Remark:

¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

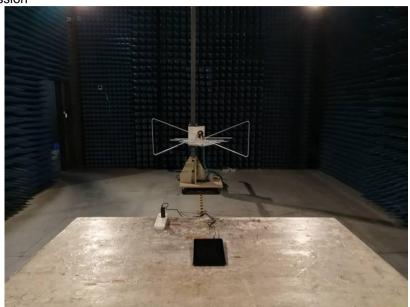
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.

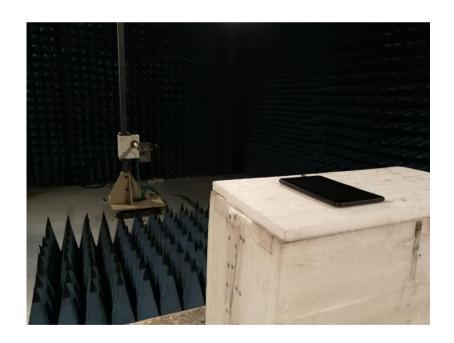




8 Test Setup Photo

Radiated Emission







Conducted Emission



9 EUT Constructional Details

Reference to the test report No. GTS201803000219F01

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