

Global United Technology Services Co., Ltd.

Report No.: GTSE14090158701

FCC Report (WIFI)

Applicant: SHENZHEN GIEC ELECTRONICS CO., LTD.

Address of Applicant: 24/F, Building A Xinian Center, No. 6021 Shennan Road,

Shenzhen, Guangdong, China

Equipment Under Test (EUT)

Product Name: Tablet PC

Model No.: EM63 TX

Trade Mark: Envizen | : Emdoor

FCC ID: ZVREM63TX

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2013

Date of sample receipt: Sept.12, 2014

Date of Test: Sept.12-17, 2014

Date of report issued: Sept.18, 2014

Test Result: PASS *

Authorized Signature:

Robinson Lo 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 GTS 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. Any mention of GTS or testing done by GTS in connection with, distribution or use of the product described in this report must be approved by GTS in writing.

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



2 Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | Sept.18, 2014 | Original |
| | | |
| | | |
| | | |
| | | |

| Prepared By: | Edward. Parc | Date: | Sept.18, 2014 | |
|--------------|------------------|-------|---------------|--|
| | Project Engineer | _ | | |
| | 1 | | | |
| Check By: | hank yan | Date: | Sept.18, 2014 | |

Reviewer

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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.



5 General Information

5.1 Client Information

| Applicant: | SHENZHEN GIEC ELECTRONICS CO., LTD. |
|--------------------------|--|
| Address of Applicant: | 24/F, Building A Xinian Center, No. 6021 Shennan Road, |
| | Shenzhen, Guangdong, China |
| Manufacturer: | SHENZHEN GIEC ELECTRONICS CO., LTD. |
| Address of Manufacturer: | 24/F, Building A Xinian Center, No. 6021 Shennan Road, |
| | Shenzhen, Guangdong, China |

5.2 General Description of EUT

| Product Name: | Tablet PC |
|------------------------|---|
| Model No.: | EM63 TX |
| Operation Frequency: | 802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz |
| | 802.11n(HT40): 2422MHz~2452MHz |
| Channel numbers: | 802.11b/802.11g /802.11n(HT20): 11 |
| | 802.11(HT40): 7 |
| Channel separation: | 5MHz |
| Modulation technology: | 802.11b: Direct Sequence Spread Spectrum (DSSS) |
| | 802.11g/802.11n(H20)/802.11n(H40): |
| | Orthogonal Frequency Division Multiplexing (OFDM) |
| Antenna Type: | Integral Antenna |
| Antenna gain: | 1.6dBi (declare by Applicant) |
| Power supply: | Input: DC 5V, 1500mA from adapter |
| | Or |
| | DC 3.7V, 2000mAh Li-ion Battery |
| Adapter Information: | Model No.:GT-WCAU05000150-313 |
| | Input: AC 100-240V, 50-60Hz, 0.4A |
| | Output: DC 5V, 1500mA |



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

5.3 Test mode

| Transmitting mode | Keep the EUT in continuously transmitting mode |
|-------------------|--|
|-------------------|--|

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

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

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

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

5.4 Description of Support Units

None

Global United Technology Services Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

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



5.5 Test Facility

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

CNAS —Registration No.: CNAS L5775

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• FCC —Registration No.: 600491

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 600491, June 28, 2013.

• 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, June 26, 2013.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen,

China

Tel: 0755-27798480 Fax: 0755-27798960

Global United Technology Services Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District,

Shenzhen, China 518102



6 Test Instruments list

| Radi | 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 | 9.2(L)*6.2(W)* 6.4(H) | GTS250 | Mar. 29 2014 | Mar. 28 2015 | | |
| 2 | Control Room | ZhongYu Electron | 6.2(L)*2.5(W)* 2.4(H) | GTS251 | N/A | N/A | | |
| 3 | Spectrum Analyzer | Agilent | E4440A | GTS533 | Jul. 01 2014 | Jun 30 2015 | | |
| 4 | EMI Test Receiver | Rohde & Schwarz | ESU26 | GTS203 | July 01 2014 | June 30 2015 | | |
| 5 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | GTS214 | July 01 2014 | June 30 2015 | | |
| 6 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | 9120D-829 | GTS208 | June 27 2014 | June 26 2015 | | |
| 7 | Horn Antenna | ETS-LINDGREN | 3160 | GTS217 | Mar. 28 2014 | Mar. 27 2015 | | |
| 8 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A | | |
| 9 | Coaxial Cable | GTS | N/A | GTS213 | Mar. 29 2014 | Mar. 28 2015 | | |
| 10 | Coaxial Cable | GTS | N/A | GTS211 | Mar. 29 2014 | Mar. 28 2015 | | |
| 11 | Coaxial Cable | GTS | N/A | GTS210 | Mar. 29 2014 | Mar. 28 2015 | | |
| 12 | Coaxial Cable | GTS | N/A | GTS212 | Mar. 29 2014 | Mar. 28 2015 | | |
| 13 | Amplifier(100kHz-3GHz) | HP | 8347A | GTS204 | July 01 2014 | June 30 2015 | | |
| 14 | Amplifier(2GHz-20GHz) | HP | 8349B | GTS206 | July 01 2014 | June 30 2015 | | |
| 15 | Amplifier (18-26GHz) | Rohde & Schwarz | AFS33-18002 650-30-8P-44 | GTS218 | June 27 2014 | June 26 2015 | | |
| 16 | Band filter | Amindeon | 82346 | GTS219 | Mar. 29 2014 | Mar. 28 2015 | | |
| 17 | Power Meter | Anritsu | ML2495A | GTS540 | July 01 2014 | June 30 2015 | | |
| 18 | Power Sensor | Anritsu | MA2411B | GTS541 | July 01 2014 | June 30 2015 | | |

| 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 | ZhongYu Electron | 7.0(L)x3.0(W)x3.0(H) | GTS264 | Jul. 01 2014 | Jun. 30, 2015 | | |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESCS30 | GTS223 | July 01 2014 | June 30 2015 | | |
| 3 | 10dB Pulse Limita | Rohde & Schwarz | N/A | GTS224 | July 01 2014 | June 30 2015 | | |
| 4 | Coaxial Switch | ANRITSU CORP | MP59B | GTS225 | July 01 2014 | June 30 2015 | | |
| 5 | LISN | SCHWARZBECK MESS-ELEKTRONIK | NSLK 8127 | GTS226 | July 01 2014 | June 30 2015 | | |
| 6 | Coaxial Cable | GTS | N/A | GTS227 | July 01 2014 | June 30 2015 | | |
| 7 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A | | |

| Gen | 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 | July 08 2014 | July 07 2015 | | |



Test results and Measurement Data 7

7.1 Antenna requirement

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

15.203 requirement:

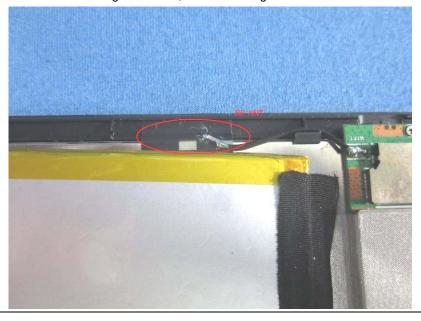
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

E.U.T Antenna:

The antenna is integral antenna, the best case gain of the antenna is 1.6dBi



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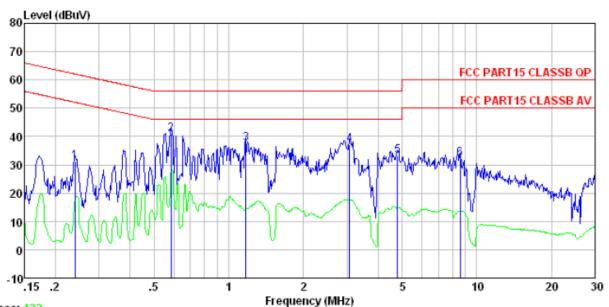
7.2 Conducted Emissions

| Test Requirement: | FCC Part15 C Section 15.207 | | | | | | |
|-----------------------|---|-------------------------|----------------------|--|--|--|--|
| Test Method: | ANSI C63.4:2003 | | | | | | |
| Test Frequency Range: | 150KHz to 30MHz | | | | | | |
| . , , | | | | | | | |
| Class / Severity: | Class B | | | | | | |
| Receiver setup: | RBW=9KHz, VBW=30KHz, Sv | · | | | | | |
| Limit: | Frequency range (MHz) | Limit (c | | | | | |
| | 0.15-0.5 | Quasi-peak 66 to 56* | Average 56 to 46* | | | | |
| | 0.15-0.5 | 56 | 46 | | | | |
| | 5-30 | 60 | 50 | | | | |
| | * Decreases with the logarithm | n of the frequency. | | | | | |
| Test setup: | Reference Plane | | | | | | |
| | /er | | | | | | |
| 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 C63.4: 2003 on conducted measurement. | | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | | |
| Test mode: | Refer to section 5.3 for details | | | | | | |
| Test results: | Pass | | | | | | |



Measurement data

Line:



Trace: 422

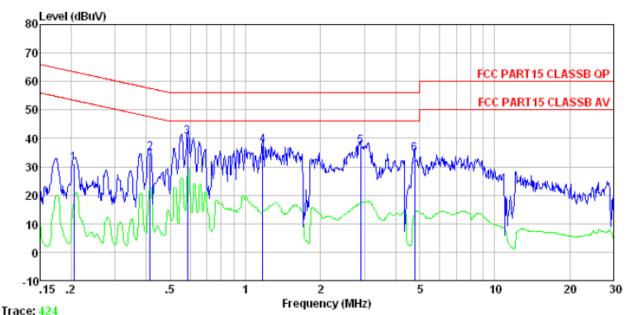
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 1587RF Test mode : WiFi mode Test Engineer: Mike

| | Freq | | LISN Factor | | | | | Remark |
|----------------------------|----------------|-------------------------|--|------------------------------|----------------------------------|----------------------------------|--------------------------------------|----------------------|
| | MHz | dBuV | dB | dB | dBu₹ | dBuV | dB | |
| 1 2 3 4 5 6 | 1.172 3.074 | 37.12 36.88 32.87 | 0.12 0.13 0.13 0.16 0.21 0.28 | 0.12 0.13 0.15 0.15 | 40.68 37.38 37.19 33.23 | 56.00 56.00 56.00 56.00 | -15.32 -18.62 -18.81 -22.77 | QP QP QP QP |



Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 1587RF Test mode : WiFi mode Test Engineer: Mike

| | Freq | | LISN Factor | | | | | Remark |
|-----------------------|--------------------------------------|--------------------------------------|--|------------------------------|--------------------------------------|----------------------------------|--------------------------------------|----------------------|
| - | MHz | dBuV | dB | dB | dBu₹ | dBuV | dB | |
| 1 2 3 4 5 | 0. 415 0. 585 1. 172 2. 900 | 34. 73 40. 27 37. 26 36. 86 | 0.07 0.06 0.07 0.08 0.11 0.15 | 0.11 0.12 0.13 0.15 | 34. 90 40. 46 37. 47 37. 12 | 57.55 56.00 56.00 56.00 | -22.65 -15.54 -18.53 -18.88 | QP QP QP QP |

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 Output Power (Peak)

| Test Requirement: | FCC Part15 C Section 15.247 (b)(3) | | | | |
|-------------------|---|--|--|--|--|
| Test Method: | ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03 | | | | |
| Limit: | 30dBm | | | | |
| Test setup: | Power Meter E.U.T Non-Conducted Table Ground Reference Plane | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | |
| Test mode: | Refer to section 5.3 for details | | | | |
| Test results: | Pass | | | | |

Measurement Data

| Test CH | | Peak conducte | Limit(dBm) | Result | | |
|---------|---------|---------------|---------------|---------------|-------------|--------|
| | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | Limit(abin) | Nesuit |
| Lowest | 7.55 | 7.08 | 6.52 | 6.02 | | Pass |
| Middle | 7.53 | 7.08 | 6.55 | 5.99 | 30.00 | |
| Highest | 7.61 | 7.02 | 6.44 | 6.08 | | |

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7.4 Channel Bandwidth

| Test Requirement: | FCC Part15 C Section 15.247 (a)(2) | | |
|-------------------|---|--|--|
| Test Method: | ANSI C63.4:2003 and 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 5.3 for details | | |
| Test results: | Pass | | |

Measurement Data

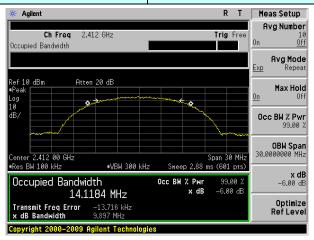
| Test CH | | Channel Ban | Limit(KHz) | Result | | |
|----------|---------|-------------|---------------|---------------|---------------|--------|
| Test Off | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | Littit(Ki iz) | Result |
| Lowest | 9.897 | 16.432 | 17.644 | 36.113 | | Pass |
| Middle | 9.791 | 16.376 | 17.660 | 35.888 | >500 | |
| Highest | 9.610 | 16.392 | 17.646 | 36.086 | | |

Test plot as follows:

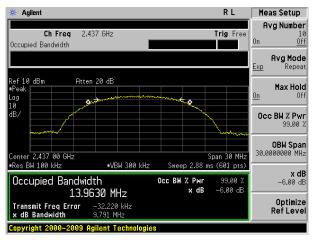


Project No.: GTSE140901587RF

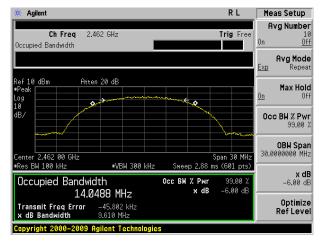
Test mode: 802.11b



Lowest channel



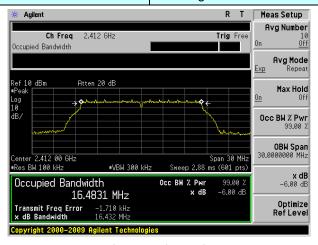
Middle channel



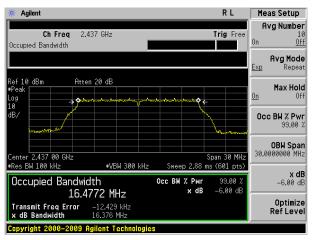
Highest channel



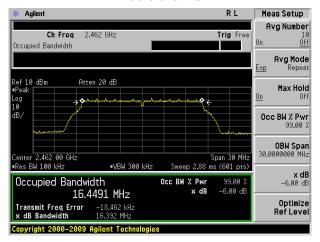
Test mode: 802.11g



Lowest channel



Middle channel

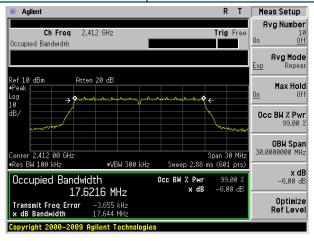


Highest channel

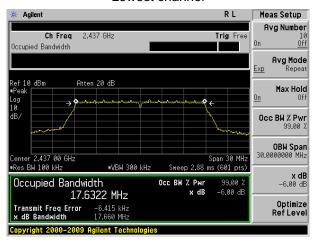
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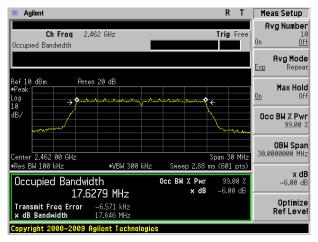
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

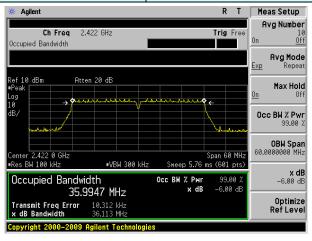


Highest channel

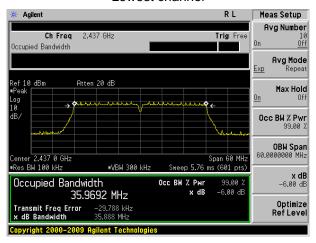
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



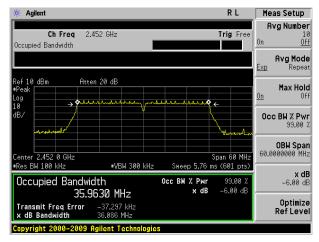
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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7.5 Power Spectral Density

| Test Requirement: | FCC Part15 C Section 15.247 (e) | | |
|-------------------|---|--|--|
| Test Method: | ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V03 | | |
| Limit: | 8dBm | | |
| 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 5.3 for details | | |
| Test results: | Pass | | |

Measurement Data

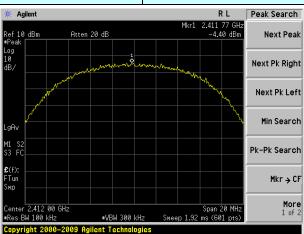
| Test CH | | Power Spectra | Limit(dBm/3kHz) | Result | | |
|----------|---------|---------------|-----------------|---------------|---------------------|--------|
| rest Off | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | LITIIL(GBITI/3KI12) | Result |
| Lowest | -4.40 | -7.34 | -7.81 | -10.95 | | Pass |
| Middle | -4.42 | -7.32 | -4.76 | -10.91 | 8.00 | |
| Highest | -3.85 | -7.59 | -7.87 | -11.25 | | |



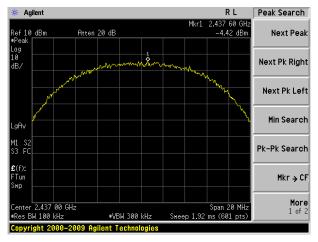
Project No.: GTSE140901587RF

Test plot as follows:

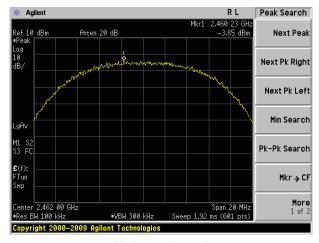
Test mode: 802.11b



Lowest channel



Middle channel

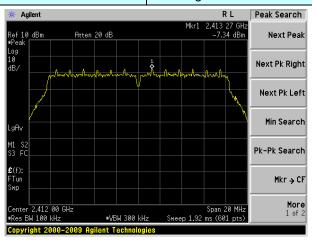


Highest channel

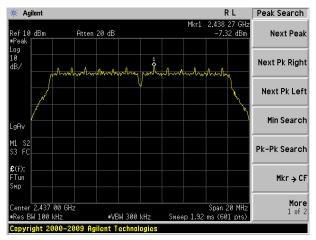


Project No.: GTSE140901587RF

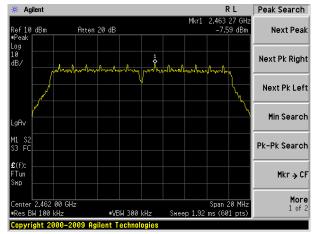
Test mode: 802.11g



Lowest channel



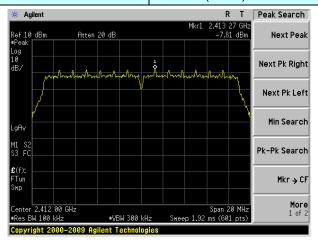
Middle channel



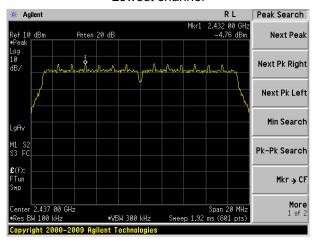
Highest channel



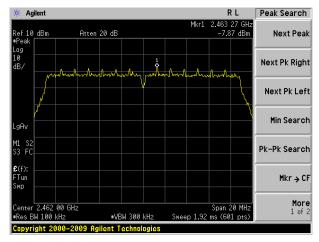
Test mode: 802.11n(HT20)



Lowest channel



Middle channel

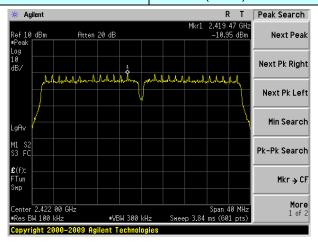


Highest channel

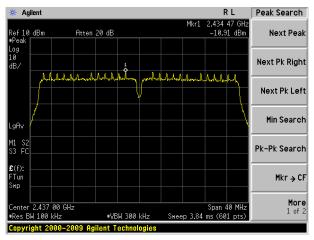
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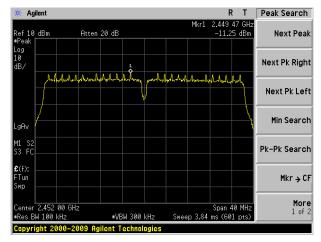
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel

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



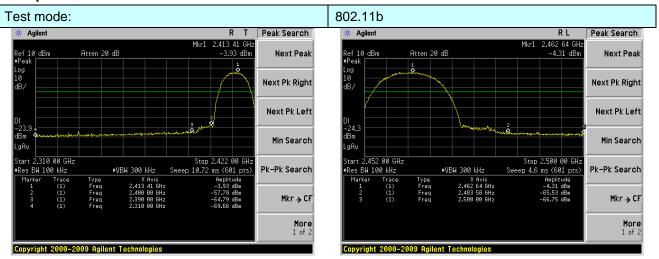
7.6 Band edges

7.6.1 Conducted Emission Method

| Test Requirement: | FCC Part15 C Section 15.247 (d) | | | | |
|-------------------|---|--|--|--|--|
| Test Method: | ANSI C63.4:2003 and 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 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 6.0 for details | | | | |
| Test mode: | Refer to section 5.3 for details | | | | |
| Test results: | Pass | | | | |

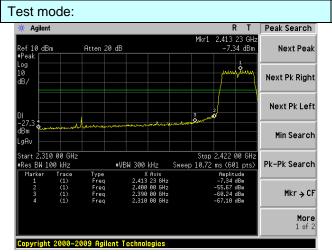


Test plot as follows:

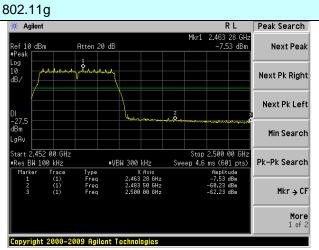


Lowest channel

Highest channel



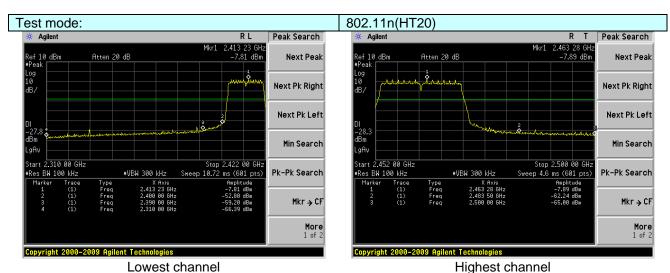
Lowest channel



Highest channel

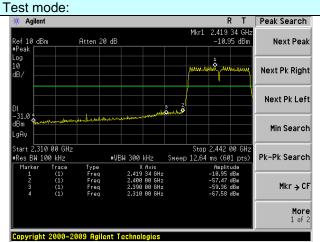
Shenzhen, China 518102



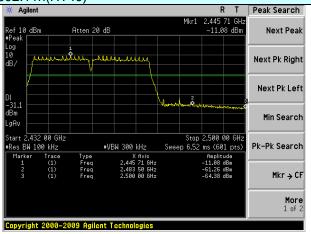


Lowest onamici

802.11n(HT40)



Lowest channel



Highest channel

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7.6.2 Radiated Emission Method

| Tool Demilion | F00 D=#45 0 0 |) 4E 000 | and 45 005 | | | | |
|-----------------------|---|-----------------|---|-------------|-------------------|--|--|
| Test Requirement: | FCC Part15 C Section 15.209 and 15.205 | | | | | | |
| Test Method: | ANSI C63.4: 20 | | 4 a 4 a 4 a 4 a 4 a 4 a 4 a 4 a 4 a 4 a | 41 | | | |
| Test Frequency Range: | 2500MHz) data | was showed. | tested, only | tne worst b | and's (2390MHz to | | |
| Test site: | Measurement D | istance: 3m | | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Value | | |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak | | |
| | Above 1GHZ | RMS | 1MHz | 3MHz | Average | | |
| Limit: | Freque | ncy | Limit (dBuV/ | /m @3m) | Value | | |
| | Above 1 | CU-7 | 54.0 | 0 | Average | | |
| | Above I | GHZ | 74.0 | 0 | Peak | | |
| Test setup: | Antenna Tower Horn Antenna Spectrum Analyzer Turn Table Amplifier | | | | | | |
| Test Procedure: | The EUT was placed on the top of a rotating table 0.8 meters above 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. 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 | | | | | | |
| Test Instruments: | Refer to section 6.0 for details | | | | | | |
| Test mode: | Refer to section | 5.3 for details | | | | | |
| Test results: | Pass | | | | | | |



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 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 |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 2390.00 | 49.99 | 27.59 | 5.38 | 30.18 | 52.78 | 74.00 | -21.22 | Horizontal |
| 2400.00 | 58.45 | 27.58 | 5.39 | 30.18 | 61.24 | 74.00 | -12.76 | Horizontal |
| 2390.00 | 51.56 | 27.59 | 5.38 | 30.18 | 54.35 | 74.00 | -19.65 | Vertical |
| 2400.00 | 59.80 | 27.58 | 5.39 | 30.18 | 62.59 | 74.00 | -11.41 | Vertical |

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 |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 2390.00 | 37.23 | 27.59 | 5.38 | 30.18 | 40.02 | 54.00 | -13.98 | Horizontal |
| 2400.00 | 45.34 | 27.58 | 5.39 | 30.18 | 48.13 | 54.00 | -5.87 | Horizontal |
| 2390.00 | 38.92 | 27.59 | 5.38 | 30.18 | 41.71 | 54.00 | -12.29 | Vertical |
| 2400.00 | 46.34 | 27.58 | 5.39 | 30.18 | 49.13 | 54.00 | -4.87 | Vertical |

| Test mode: 802.11b | 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 |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 2483.50 | 49.94 | 27.53 | 5.47 | 29.93 | 53.01 | 74.00 | -20.99 | Horizontal |
| 2500.00 | 46.29 | 27.55 | 5.49 | 29.93 | 49.40 | 74.00 | -24.60 | Horizontal |
| 2483.50 | 51.86 | 27.53 | 5.47 | 29.93 | 54.93 | 74.00 | -19.07 | Vertical |
| 2500.00 | 48.49 | 27.55 | 5.49 | 29.93 | 51.60 | 74.00 | -22.40 | Vertical |

Average value:

| , troinge ru | | | | | | | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 | 37.34 | 27.53 | 5.47 | 29.93 | 40.41 | 54.00 | -13.59 | Horizontal |
| 2500.00 | 33.76 | 27.55 | 5.49 | 29.93 | 36.87 | 54.00 | -17.13 | Horizontal |
| 2483.50 | 39.14 | 27.53 | 5.47 | 29.93 | 42.21 | 54.00 | -11.79 | Vertical |
| 2500.00 | 35.58 | 27.55 | 5.49 | 29.93 | 38.69 | 54.00 | -15.31 | 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.

Global United Technology Services Co., Ltd.

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Shenzhen, China 518102

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



Report No.: GTSE14090158701

| Test mode: | | 802.1 | 1g | Т | est channel: | | Lowest | |
|-----------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Peak value: | | • | | • | | <u> </u> | | |
| 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 |
| 2390.00 | 49.15 | 27.59 | 5.38 | 30.18 | 51.94 | 74.00 | -22.06 | Horizontal |
| 2400.00 | 57.33 | 27.58 | 5.39 | 30.18 | 60.12 | 74.00 | -13.88 | Horizontal |
| 2390.00 | 50.66 | 27.59 | 5.38 | 30.18 | 53.45 | 74.00 | -20.55 | Vertical |
| 2400.00 | 58.45 | 27.58 | 5.39 | 30.18 | 61.24 | 74.00 | -12.76 | 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 |
| 2390.00 | 36.63 | 27.59 | 5.38 | 30.18 | 39.42 | 54.00 | -14.58 | Horizontal |
| 2400.00 | 44.66 | 27.58 | 5.39 | 30.18 | 47.45 | 54.00 | -6.55 | Horizontal |
| 2390.00 | 38.25 | 27.59 | 5.38 | 30.18 | 41.04 | 54.00 | -12.96 | Vertical |
| 2400.00 | 45.59 | 27.58 | 5.39 | 30.18 | 48.38 | 54.00 | -5.62 | Vertical |
| | | | | | | | | |
| Test mode: | | 802.1 | 1g | Т | est 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 |
| 2483.50 | 48.74 | 27.53 | 5.47 | 29.93 | 51.81 | 74.00 | -22.19 | Horizontal |
| 2500.00 | 45.36 | 27.55 | 5.49 | 29.93 | 48.47 | 74.00 | -25.53 | Horizontal |
| 2483.50 | 50.49 | 27.53 | 5.47 | 29.93 | 53.56 | 74.00 | -20.44 | Vertical |
| 2500.00 | 47.40 | 27.55 | 5.49 | 29.93 | 50.51 | 74.00 | -23.49 | 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 |
| 2483.50 | 36.62 | 27.53 | 5.47 | 29.93 | 39.69 | 54.00 | -14.31 | Horizontal |
| 2500.00 | 33.20 | 27.55 | 5.49 | 29.93 | 36.31 | 54.00 | -17.69 | Horizontal |
| 2483.50 | 38.34 | 27.53 | 5.47 | 29.93 | 41.41 | 54.00 | -12.59 | Vertical |
| 2500.00 | 34.98 | 27.55 | 5.49 | 29.93 | 38.09 | 54.00 | -15.91 | Vertical |
| Remark: 1. Final L | aval Bassi | var Paad la | al L Antoni | na Factor | ⊦ Cable Loss - | Droomplifi | or Footor | |

The emission levels of other frequencies are very lower than the limit and not show in test report.

Global United Technology Services Co., Ltd.

2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District,

Shenzhen, China 518102



Test mode:

Report No.: GTSE14090158701

Lowest

| | • | | | | | | | |
|--|---|---|--|--|---|--|--|---|
| 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 |
| 2390.00 | 49.51 | 27.59 | 5.38 | 30.18 | 52.30 | 74.00 | -21.70 | Horizontal |
| 2400.00 | 57.80 | 27.58 | 5.39 | 30.18 | 60.59 | 74.00 | -13.41 | Horizontal |
| 2390.00 | 51.04 | 27.59 | 5.38 | 30.18 | 53.83 | 74.00 | -20.17 | Vertical |
| 2400.00 | 59.02 | 27.58 | 5.39 | 30.18 | 61.81 | 74.00 | -12.19 | 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 |
| 2390.00 | 36.88 | 27.59 | 5.38 | 30.18 | 39.67 | 54.00 | -14.33 | Horizontal |
| 2400.00 | 44.95 | 27.58 | 5.39 | 30.18 | 47.74 | 54.00 | -6.26 | Horizontal |
| 2390.00 | 38.53 | 27.59 | 5.38 | 30.18 | 41.32 | 54.00 | -12.68 | Vertical |
| 2400.00 | 45.91 | 27.58 | 5.39 | 30.18 | 48.70 | 54.00 | -5.30 | Vertical |
| | | | | | • | | | |
| Test mode: | | 802.1 | 1n(HT20) | Te | st channel: | L | lighest | |
| | | | (=0) | 100 | st Charmer. | 1 | ngnost | |
| Peak value | : | | (20) | 100 | ot chamie. | | iigiicat | |
| 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 |
| Frequency | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Polarization Horizontal |
| 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) | |
| Frequency (MHz) 2483.50 | Read Level (dBuV) 49.24 | Antenna Factor (dB/m) 27.53 | Cable Loss (dB) 5.47 | Preamp Factor (dB) 29.93 | Level (dBuV/m) 52.31 | Limit Line (dBuV/m) 74.00 | Over Limit (dB) -21.69 | Horizontal |
| Frequency (MHz) 2483.50 2500.00 | Read Level (dBuV) 49.24 45.76 | Antenna Factor (dB/m) 27.53 27.55 | Cable Loss (dB) 5.47 5.49 | Preamp Factor (dB) 29.93 | Level (dBuV/m) 52.31 48.87 | Limit Line (dBuV/m) 74.00 74.00 | Over Limit (dB) -21.69 | Horizontal Horizontal |
| Frequency (MHz) 2483.50 2500.00 2483.50 | Read Level (dBuV) 49.24 45.76 51.06 47.86 | Antenna Factor (dB/m) 27.53 27.55 27.53 | Cable Loss (dB) 5.47 5.49 5.47 | Preamp Factor (dB) 29.93 29.93 29.93 | Level (dBuV/m) 52.31 48.87 54.13 | Limit Line (dBuV/m) 74.00 74.00 74.00 | Over Limit (dB) -21.69 -25.13 -19.87 | Horizontal Horizontal Vertical |
| Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 | Read Level (dBuV) 49.24 45.76 51.06 47.86 | Antenna Factor (dB/m) 27.53 27.55 27.53 | Cable Loss (dB) 5.47 5.49 5.47 | Preamp Factor (dB) 29.93 29.93 | Level (dBuV/m) 52.31 48.87 54.13 | Limit Line (dBuV/m) 74.00 74.00 74.00 | Over Limit (dB) -21.69 -25.13 -19.87 | Horizontal Horizontal Vertical |
| Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency | Read Level (dBuV) 49.24 45.76 51.06 47.86 Iue: | Antenna Factor (dB/m) 27.53 27.55 27.53 27.55 | Cable Loss (dB) 5.47 5.49 5.47 5.49 Cable Loss | Preamp Factor (dB) 29.93 29.93 29.93 Preamp Factor | Level (dBuV/m) 52.31 48.87 54.13 50.97 | Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Contract the contract of the contr | Over Limit (dB) -21.69 -25.13 -19.87 -23.03 Over Limit | Horizontal Horizontal Vertical Vertical |
| Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz) | Read Level (dBuV) 49.24 45.76 51.06 47.86 Iue: Read Level (dBuV) | Antenna Factor (dB/m) 27.53 27.55 27.55 Antenna Factor (dB/m) | Cable Loss (dB) 5.47 5.49 5.47 Cable Loss (dB) | Preamp Factor (dB) 29.93 29.93 29.93 Preamp Factor (dB) | Level (dBuV/m) 52.31 48.87 54.13 50.97 Level (dBuV/m) | Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) | Over Limit (dB) -21.69 -25.13 -19.87 -23.03 Over Limit (dB) | Horizontal Horizontal Vertical Vertical Polarization |
| Frequency (MHz) 2483.50 2500.00 2483.50 2500.00 Average va Frequency (MHz) 2483.50 | Read Level (dBuV) 49.24 45.76 51.06 47.86 Iue: Read Level (dBuV) 36.93 | Antenna Factor (dB/m) 27.53 27.55 27.53 27.55 Antenna Factor (dB/m) 27.53 | Cable Loss (dB) 5.47 5.49 5.47 Cable Loss (dB) 5.47 | Preamp Factor (dB) 29.93 29.93 29.93 Preamp Factor (dB) 29.93 | Level (dBuV/m) 52.31 48.87 54.13 50.97 Level (dBuV/m) 40.00 | Limit Line (dBuV/m) 74.00 74.00 74.00 74.00 Limit Line (dBuV/m) 54.00 | Over Limit (dB) -21.69 -25.13 -19.87 -23.03 Over Limit (dB) -14.00 | Horizontal Horizontal Vertical Vertical Polarization Horizontal |

The emission levels of other frequencies are very lower than the limit and not show in test report.

Test channel:

802.11n(HT20)

Global United Technology Services Co., Ltd.

2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District,

Shenzhen, China 518102



Test mode:

Report No.: GTSE14090158701

Lowest

| Peak value: | | <u> </u> | | · · · · · · · · · · · · · · · · · · · | | · · · · · · · · · · · · · · · · · · · | | |
|--------------------|-------------------------|-----------------------------|-----------------------|---------------------------------------|-------------------|---------------------------------------|-----------------------|--------------|
| 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 |
| 2390.00 | 48.48 | 27.59 | 5.38 | 30.18 | 51.27 | 74.00 | -22.73 | Horizontal |
| 2400.00 | 56.43 | 27.58 | 5.39 | 30.18 | 59.22 | 74.00 | -14.78 | Horizontal |
| 2390.00 | 49.94 | 27.59 | 5.38 | 30.18 | 52.73 | 74.00 | -21.27 | Vertical |
| 2400.00 | 57.37 | 27.58 | 5.39 | 30.18 | 60.16 | 74.00 | -13.84 | 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 |
| 2390.00 | 36.15 | 27.59 | 5.38 | 30.18 | 38.94 | 54.00 | -15.06 | Horizontal |
| 2400.00 | 44.10 | 27.58 | 5.39 | 30.18 | 46.89 | 54.00 | -7.11 | Horizontal |
| 2390.00 | 37.72 | 27.59 | 5.38 | 30.18 | 40.51 | 54.00 | -13.49 | Vertical |
| 2400.00 | 44.99 | 27.58 | 5.39 | 30.18 | 47.78 | 54.00 | -6.22 | Vertical |
| | | | | | | | | |
| Test mode: | | 802.1 | 1n(HT40) | Te | st channel: | F | lighest | |
| 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 | 47.77 | 27.53 | 5.47 | 29.93 | 50.84 | 74.00 | -23.16 | Horizontal |
| 2500.00 | 44.62 | 27.55 | 5.49 | 29.93 | 47.73 | 74.00 | -26.27 | Horizontal |
| 2483.50 | 49.39 | 27.53 | 5.47 | 29.93 | 52.46 | 74.00 | -21.54 | Vertical |
| 2500.00 | 46.53 | 27.55 | 5.49 | 29.93 | 49.64 | 74.00 | -24.36 | 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 |
| 2483.50 | 36.04 | 27.53 | 5.47 | 29.93 | 39.11 | 54.00 | -14.89 | Horizontal |
| 2500.00 | 32.74 | 27.55 | 5.49 | 29.93 | 35.85 | 54.00 | -18.15 | Horizontal |
| 2483.50 | 37.70 | 27.53 | 5.47 | 29.93 | 40.77 | 54.00 | -13.23 | Vertical |
| 2500.00 | 34.50 | 27.55 | 5.49 | 29.93 | 37.61 | 54.00 | -16.39 | Vertical |
| Remark: | | | | | | | | |

Test channel:

802.11n(HT40)

Global United Technology Services Co., Ltd.

2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District,

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, China 518102



7.7 Spurious Emission

7.7.1 Conducted Emission Method

| Test Requirement: | FCC Part15 C Section 15.247 (d) | | | | |
|-------------------|---|--|--|--|--|
| Test Method: | ANSI C63.4:2003 and 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 5.3 for details | | | | |
| Test results: | Pass | | | | |

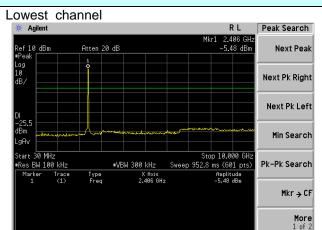
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



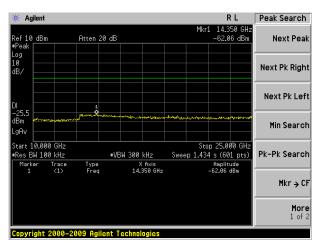
Test plot as follows:

Test mode:

802.11b



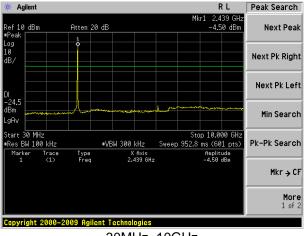
30MHz~10GHz



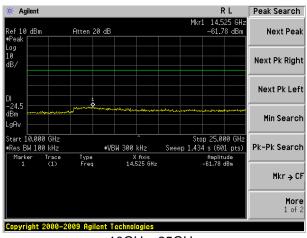
10GHz~25GHz



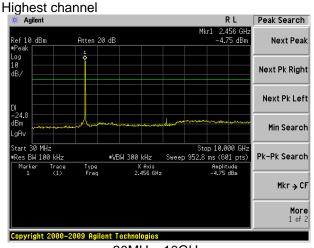
Copyright 2000-2009 Agilent Technologies



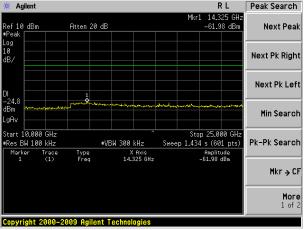
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz

Project No.: GTSE140901587RF

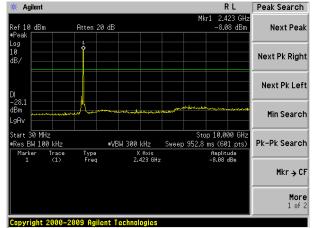
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Test mode:

802.11g

Lowest channel

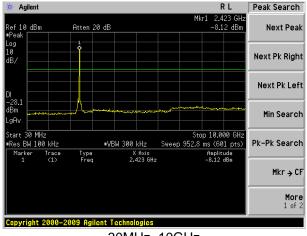


30MHz~10GHz

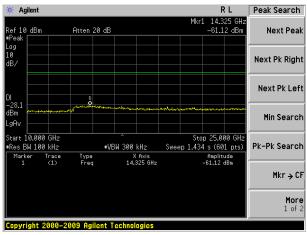
Agilent Peak Search 13.225 GH 61.50 dBm Ref 10 dBm Atten 20 dE Next Peak Next Pk Right Next Pk Left Min Search gAv Start 10.000 GHz •Res BW 100 kHz Stop 25.000 GHz Sweep 1.434 s (601 pts) #VBW 300 kHz Pk-Pk Search X Axis 13.225 GHz Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

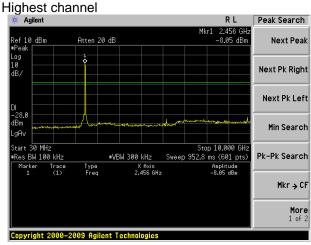
Middle channel



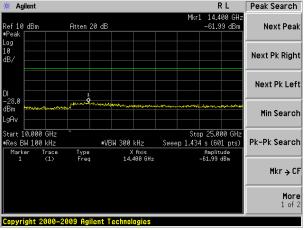
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz

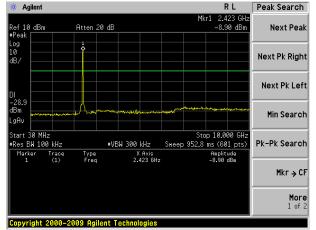


R L

Test mode:

802.11n(HT20)

Lowest channel



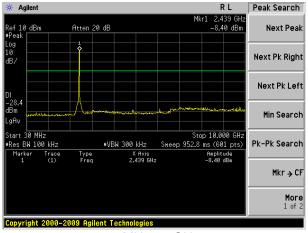
30MHz~10GHz

Peak Search 🗰 Agilent Next Peak Atten 20 dB Next Pk Right Next Pk Left Min Search Start 10.000 GHz ■Res BW 100 kHz Stop 25.000 GH: Sweep 1.434 s (601 pts) Pk-Pk Search #VBW 300 kHz Type Freq X Axis 14.275 GHz Mkr → CF More 1 of 2

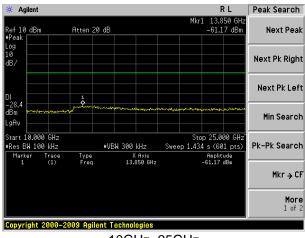
10GHz~25GHz

Copyright 2000-2009 Agilent Technologies

Middle channel

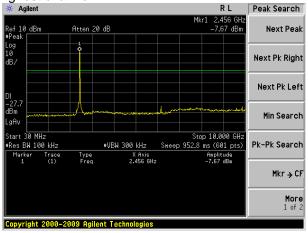


30MHz~10GHz

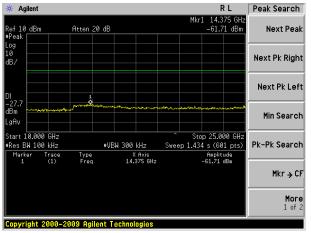


10GHz~25GHz





30MHz~10GHz



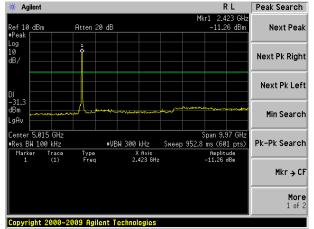
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

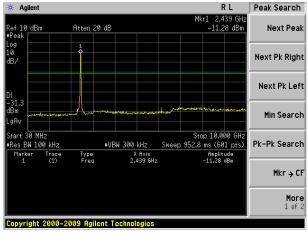


30MHz~10GHz

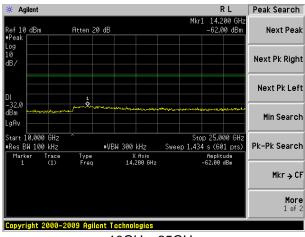
🔆 Agilent R T Peak Search 14.475 GHz -61.27 dBm Atten 20 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GH Sweep 1.434 s (601 pts) ■Res BW 100 kHz #VBW 300 kHz Pk-Pk Search X Axis 14.475 GHz Amplitude -61.27 dBm Mkr → CF More 1 of 2 Copyright 2000-2009 Agilent Technologies

10GHz~25GHz

Middle channel

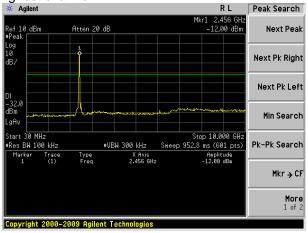


30MHz~10GHz

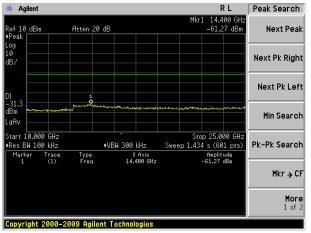


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

| ANSI C63.4: 200 | | | | | | | | | | |
|--|--|---|--|--|--|--|--|--|--|--|
| 30MHz to 25GHz | | | | | | | | | | |
| 301VII 12 to 2301 12 | 30MHz to 25GHz | | | | | | | | | |
| Measurement Dis | Measurement Distance: 3m | | | | | | | | | |
| Frequency | | | | | | | | | | |
| 30MHz-1GHz | ' ' | | | | | | | | | |
| Abovo 1GHz | Above 1GHz Peak 1MHz 3MHz Pe | | | | | | | | | |
| Above 1G112 | RMS | 1MHz | 3MHz | Average | | | | | | |
| Frequen | icy l | _imit (dBuV/ | /m @3m) | Value | | | | | | |
| 30MHz-88 | MHz | 40.0 | 0 | Quasi-peak | | | | | | |
| 88MHz-216 | 6MHz | 43.5 | 0 | Quasi-peak | | | | | | |
| 216MHz-96 | 216MHz-960MHz 46.00 Quasi-peak | | | | | | | | | |
| 960MHz-1 | GHz | 54.0 | 0 | Quasi-peak | | | | | | |
| Above 16 | `U- | 54.0 | 0 | Average | | | | | | |
| Above 10 | סחב | 74.0 | 0 | Peak | | | | | | |
| Tum 7.8m 7.8m 7.8m 7.8m 7.8m 7.8m 7.8m 7.8 | Above 1GHz Antenna Tower Horn Antenna | | | | | | | | | |
| | 30MHz-1GHz Above 1GHz Frequen 30MHz-88 88MHz-216 216MHz-96 960MHz-1 Above 1C Below 1GHz Ground Plane Above 1GHz | 30MHz-1GHz Quasi-peak Peak RMS Frequency 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz Below 1GHz Below 1GHz Below 1GHz Above 1GHz | 30MHz-1GHz Quasi-peak 120KHz Above 1GHz Peak 1MHz RMS 1MHz RMS 1MHz Frequency Limit (dBuV/ 30MHz-88MHz 40.0 88MHz-216MHz 43.5 216MHz-960MHz 46.0 960MHz-1GHz 54.0 Above 1GHz Below 1GHz Below 1GHz Above 1GHz Above 1GHz | 30MHz-1GHz Quasi-peak 120KHz 300KHz Above 1GHz Peak 1MHz 3MHz RMS 1MHz 3MHz Frequency Limit (dBuV/m @3m) 30MHz-88MHz 40.00 88MHz-216MHz 43.50 216MHz-960MHz 46.00 960MHz-1GHz 54.00 Above 1GHz 74.00 Below 1GHz Antenna Tower Antenna Tower Antenna Tower Antenna Tower Antenna Tower Antenna Tower Antenna Tower | | | | | | |

Global United Technology Services Co., Ltd.

2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District,

Shenzhen, China 518102



| Test Procedure: | 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. |
|-------------------|---|
| | 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. |
| | 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. |
| | 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. |
| | The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. |
| | 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. |
| | 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the 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 5.3 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 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 |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 35.499 | 46.62 | 14.44 | 0.61 | 32.06 | 29.61 | 40.00 | -10.39 | Vertical |
| 44.901 | 44.39 | 15.55 | 0.72 | 32.01 | 28.65 | 40.00 | -11.35 | Vertical |
| 91.816 | 55.04 | 14.24 | 1.12 | 31.73 | 38.67 | 43.50 | -4.83 | Vertical |
| 120.699 | 56.82 | 12.38 | 1.37 | 31.86 | 38.71 | 43.50 | -4.79 | Vertical |
| 179.386 | 52.38 | 11.62 | 1.74 | 32.08 | 33.66 | 43.50 | -9.84 | Vertical |
| 309.998 | 43.51 | 15.19 | 2.42 | 32.15 | 28.97 | 46.00 | -17.03 | Vertical |
| 77.593 | 54.48 | 10.20 | 1.01 | 31.79 | 33.90 | 40.00 | -6.10 | Horizontal |
| 96.775 | 52.88 | 14.97 | 1.17 | 31.75 | 37.27 | 43.50 | -6.23 | Horizontal |
| 103.442 | 54.55 | 14.82 | 1.22 | 31.78 | 38.81 | 43.50 | -4.69 | Horizontal |
| 119.856 | 55.35 | 12.48 | 1.36 | 31.86 | 37.33 | 43.50 | -6.17 | Horizontal |
| 199.986 | 49.93 | 12.57 | 1.84 | 32.14 | 32.20 | 43.50 | -11.30 | Horizontal |
| 528.246 | 40.85 | 19.15 | 3.43 | 31.41 | 32.02 | 46.00 | -13.98 | Horizontal |



■ Above 1GHz

| Test mode: | | 802.11b | | Test | channel: | Lowe | est | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Peak value: | | | | <u>'</u> | | <u>'</u> | | |
| 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 | 38.31 | 31.79 | 8.62 | 32.10 | 46.62 | 74.00 | -27.38 | Vertical |
| 7236.00 | 32.96 | 36.19 | 11.68 | 31.97 | 48.86 | 74.00 | -25.14 | Vertical |
| 9648.00 | 31.82 | 38.07 | 14.16 | 31.56 | 52.49 | 74.00 | -21.51 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 37.29 | 31.79 | 8.62 | 32.10 | 45.60 | 74.00 | -28.40 | Horizontal |
| 7236.00 | 32.87 | 36.19 | 11.68 | 31.97 | 48.77 | 74.00 | -25.23 | Horizontal |
| 9648.00 | 31.47 | 38.07 | 14.16 | 31.56 | 52.14 | 74.00 | -21.86 | Horizontal |
| 12060.00 | * | | | | | 74.00 | | Horizontal |
| 14472.00 | * | | | | | 74.00 | | Horizontal |
| 16884.00 | * | | | | | 74.00 | | Horizontal |
| Average val | | | | | | | | |
| 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 | 27.55 | 31.79 | 8.62 | 32.10 | 35.86 | 54.00 | -18.14 | Vertical |
| 7236.00 | 21.88 | 36.19 | 11.68 | 31.97 | 37.78 | 54.00 | -16.22 | Vertical |
| 9648.00 | 22.20 | 38.07 | 14.16 | 31.56 | 42.87 | 54.00 | -11.13 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4824.00 | 26.93 | 31.79 | 8.62 | 32.10 | 35.24 | 54.00 | -18.76 | Horizontal |
| 7236.00 | 21.49 | 36.19 | 11.68 | 31.97 | 37.39 | 54.00 | -16.61 | Horizontal |
| 9648.00 | 21.24 | 38.07 | 14.16 | 31.56 | 41.91 | 54.00 | -12.09 | 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: | | 802.11b | | Tes | t 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 | 37.71 | 31.85 | 8.66 | 32.12 | 46.10 | 74.00 | -27.90 | Vertical |
| 7311.00 | 33.25 | 36.37 | 11.71 | 31.91 | 49.42 | 74.00 | -24.58 | Vertical |
| 9748.00 | 32.99 | 38.27 | 14.25 | 31.56 | 53.95 | 74.00 | -20.05 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 38.44 | 31.85 | 8.66 | 32.12 | 46.83 | 74.00 | -27.17 | Horizontal |
| 7311.00 | 32.02 | 36.37 | 11.71 | 31.91 | 48.19 | 74.00 | -25.81 | Horizontal |
| 9748.00 | 32.94 | 38.27 | 14.25 | 31.56 | 53.90 | 74.00 | -20.10 | 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 | 28.69 | 31.85 | 8.66 | 32.12 | 37.08 | 54.00 | -16.92 | Vertical |
| 7311.00 | 21.60 | 36.37 | 11.71 | 31.91 | 37.77 | 54.00 | -16.23 | Vertical |
| 9748.00 | 22.27 | 38.27 | 14.25 | 31.56 | 43.23 | 54.00 | -10.77 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 28.64 | 31.85 | 8.66 | 32.12 | 37.03 | 54.00 | -16.97 | Horizontal |
| 7311.00 | 21.14 | 36.37 | 11.71 | 31.91 | 37.31 | 54.00 | -16.69 | Horizontal |
| 9748.00 | 22.68 | 38.27 | 14.25 | 31.56 | 43.64 | 54.00 | -10.36 | Horizontal |
| 12185.00 | * | | | | | 54.00 | | Horizontal |
| 14622.00 | * | | | | | 54.00 | | Horizontal |
| 17059.00 | * | | | | | 54.00 | | Horizontal |

Remark:

Shenzhen, China 518102

^{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: | High | 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 | 42.05 | 31.90 | 8.70 | 32.15 | 50.50 | 74.00 | -23.50 | Vertical |
| 7386.00 | 33.18 | 36.49 | 11.76 | 31.83 | 49.60 | 74.00 | -24.40 | Vertical |
| 9848.00 | 35.75 | 38.62 | 14.31 | 31.77 | 56.91 | 74.00 | -17.09 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 41.80 | 31.90 | 8.70 | 32.15 | 50.25 | 74.00 | -23.75 | Horizontal |
| 7386.00 | 32.30 | 36.49 | 11.76 | 31.83 | 48.72 | 74.00 | -25.28 | Horizontal |
| 9848.00 | 32.02 | 38.62 | 14.31 | 31.77 | 53.18 | 74.00 | -20.82 | 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 | 33.19 | 31.90 | 8.70 | 32.15 | 41.64 | 54.00 | -12.36 | Vertical |
| 7386.00 | 23.16 | 36.49 | 11.76 | 31.83 | 39.58 | 54.00 | -14.42 | Vertical |
| 9848.00 | 24.30 | 38.62 | 14.31 | 31.77 | 45.46 | 54.00 | -8.54 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 32.31 | 31.90 | 8.70 | 32.15 | 40.76 | 54.00 | -13.24 | Horizontal |
| 7386.00 | 21.74 | 36.49 | 11.76 | 31.83 | 38.16 | 54.00 | -15.84 | Horizontal |
| 9848.00 | 21.32 | 38.62 | 14.31 | 31.77 | 42.48 | 54.00 | -11.52 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 54.00 | | Horizontal |

Remark:

Shenzhen, China 518102

^{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: | | 802.11g | | Test | channel: | lowes | 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 | 37.08 | 31.79 | 8.62 | 32.10 | 45.39 | 74.00 | -28.61 | Vertical |
| 7236.00 | 32.18 | 36.19 | 11.68 | 31.97 | 48.08 | 74.00 | -25.92 | Vertical |
| 9648.00 | 31.26 | 38.07 | 14.16 | 31.56 | 51.93 | 74.00 | -22.07 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 36.25 | 31.79 | 8.62 | 32.10 | 44.56 | 74.00 | -29.44 | Horizontal |
| 7236.00 | 32.19 | 36.19 | 11.68 | 31.97 | 48.09 | 74.00 | -25.91 | Horizontal |
| 9648.00 | 30.95 | 38.07 | 14.16 | 31.56 | 51.62 | 74.00 | -22.38 | 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 | 26.41 | 31.79 | 8.62 | 32.10 | 34.72 | 54.00 | -19.28 | Vertical |
| 7236.00 | 21.12 | 36.19 | 11.68 | 31.97 | 37.02 | 54.00 | -16.98 | Vertical |
| 9648.00 | 21.66 | 38.07 | 14.16 | 31.56 | 42.33 | 54.00 | -11.67 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertica |
| 4824.00 | 25.95 | 31.79 | 8.62 | 32.10 | 34.26 | 54.00 | -19.74 | Horizontal |
| 7236.00 | 20.83 | 36.19 | 11.68 | 31.97 | 36.73 | 54.00 | -17.27 | Horizontal |
| 9648.00 | 20.75 | 38.07 | 14.16 | 31.56 | 41.42 | 54.00 | -12.58 | 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: | | 802.11g | | Tes | st 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 | 36.69 | 31.85 | 8.66 | 32.12 | 45.08 | 74.00 | -28.92 | Vertical |
| 7311.00 | 32.61 | 36.37 | 11.71 | 31.91 | 48.78 | 74.00 | -25.22 | Vertical |
| 9748.00 | 32.53 | 38.27 | 14.25 | 31.56 | 53.49 | 74.00 | -20.51 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 37.58 | 31.85 | 8.66 | 32.12 | 45.97 | 74.00 | -28.03 | Horizontal |
| 7311.00 | 31.46 | 36.37 | 11.71 | 31.91 | 47.63 | 74.00 | -26.37 | Horizontal |
| 9748.00 | 32.51 | 38.27 | 14.25 | 31.56 | 53.47 | 74.00 | -20.53 | 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 | 27.75 | 31.85 | 8.66 | 32.12 | 36.14 | 54.00 | -17.86 | Vertical |
| 7311.00 | 20.98 | 36.37 | 11.71 | 31.91 | 37.15 | 54.00 | -16.85 | Vertical |
| 9748.00 | 21.83 | 38.27 | 14.25 | 31.56 | 42.79 | 54.00 | -11.21 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 27.83 | 31.85 | 8.66 | 32.12 | 36.22 | 54.00 | -17.78 | Horizontal |
| 7311.00 | 20.59 | 36.37 | 11.71 | 31.91 | 36.76 | 54.00 | -17.24 | Horizontal |
| 9748.00 | 22.27 | 38.27 | 14.25 | 31.56 | 43.23 | 54.00 | -10.77 | Horizontal |
| 12185.00 | * | | | | | 54.00 | | Horizontal |
| 14622.00 | * | | | | | 54.00 | | Horizontal |
| 17059.00 | * | _ | | | | 54.00 | | Horizontal |

Remark:

Shenzhen, China 518102

^{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: | | 802.11g | | Test | channel: | High | 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 | 40.29 | 31.90 | 8.70 | 32.15 | 48.74 | 74.00 | -25.26 | Vertical |
| 7386.00 | 32.07 | 36.49 | 11.76 | 31.83 | 48.49 | 74.00 | -25.51 | Vertical |
| 9848.00 | 34.96 | 38.62 | 14.31 | 31.77 | 56.12 | 74.00 | -17.88 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 40.31 | 31.90 | 8.70 | 32.15 | 48.76 | 74.00 | -25.24 | Horizontal |
| 7386.00 | 31.33 | 36.49 | 11.76 | 31.83 | 47.75 | 74.00 | -26.25 | Horizontal |
| 9848.00 | 31.29 | 38.62 | 14.31 | 31.77 | 52.45 | 74.00 | -21.55 | Horizontal |
| 12310.00 | * | | | | | 74.00 | | Horizontal |
| 14772.00 | * | | | | | 74.00 | | Horizontal |
| 17234.00 | * | | | | | 74.00 | | Horizontal |
| Average val | | | | | | | | • |
| 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 | 31.57 | 31.90 | 8.70 | 32.15 | 40.02 | 54.00 | -13.98 | Vertical |
| 7386.00 | 22.08 | 36.49 | 11.76 | 31.83 | 38.50 | 54.00 | -15.50 | Vertical |
| 9848.00 | 23.54 | 38.62 | 14.31 | 31.77 | 44.70 | 54.00 | -9.30 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 30.92 | 31.90 | 8.70 | 32.15 | 39.37 | 54.00 | -14.63 | Horizontal |
| 7386.00 | 20.80 | 36.49 | 11.76 | 31.83 | 37.22 | 54.00 | -16.78 | Horizontal |
| 9848.00 | 20.62 | 38.62 | 14.31 | 31.77 | 41.78 | 54.00 | -12.22 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 54.00 | | Horizontal |

Remark:

Shenzhen, China 518102

^{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 | 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 |
| 4824.00 | 37.68 | 31.79 | 8.62 | 32.10 | 45.99 | 74.00 | -28.01 | Vertical |
| 7236.00 | 32.57 | 36.19 | 11.68 | 31.97 | 48.47 | 74.00 | -25.53 | 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 | 36.76 | 31.79 | 8.62 | 32.10 | 45.07 | 74.00 | -28.93 | 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 | 26.97 | 31.79 | 8.62 | 32.10 | 35.28 | 54.00 | -18.72 | Vertical |
| 7236.00 | 21.49 | 36.19 | 11.68 | 31.97 | 37.39 | 54.00 | -16.61 | Vertical |
| 9648.00 | 21.93 | 38.07 | 14.16 | 31.56 | 42.60 | 54.00 | -11.40 | 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:

Shenzhen, China 518102

^{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) | Tes | t 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 | 37.19 | 31.85 | 8.66 | 32.12 | 45.58 | 74.00 | -28.42 | Vertical |
| 7311.00 | 32.92 | 36.37 | 11.71 | 31.91 | 49.09 | 74.00 | -24.91 | Vertical |
| 9748.00 | 32.76 | 38.27 | 14.25 | 31.56 | 53.72 | 74.00 | -20.28 | 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 | 31.74 | 36.37 | 11.71 | 31.91 | 47.91 | 74.00 | -26.09 | 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 | 21.29 | 36.37 | 11.71 | 31.91 | 37.46 | 54.00 | -16.54 | 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:

Shenzhen, China 518102

^{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: | High | est | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Peak value: | | | | | | <u> </u> | | |
| 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 | 41.16 | 31.90 | 8.70 | 32.15 | 49.61 | 74.00 | -24.39 | Vertical |
| 7386.00 | 32.61 | 36.49 | 11.76 | 31.83 | 49.03 | 74.00 | -24.97 | 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 | 41.04 | 31.90 | 8.70 | 32.15 | 49.49 | 74.00 | -24.51 | Horizontal |
| 7386.00 | 31.81 | 36.49 | 11.76 | 31.83 | 48.23 | 74.00 | -25.77 | Horizontal |
| 9848.00 | 31.65 | 38.62 | 14.31 | 31.77 | 52.81 | 74.00 | -21.19 | 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 | 22.61 | 36.49 | 11.76 | 31.83 | 39.03 | 54.00 | -14.97 | 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 | 31.60 | 31.90 | 8.70 | 32.15 | 40.05 | 54.00 | -13.95 | Horizontal |
| 7386.00 | 21.26 | 36.49 | 11.76 | 31.83 | 37.68 | 54.00 | -16.32 | 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:

Shenzhen, China 518102

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: | | | Lowest | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|---------------|-------------------|------------------------|--------|-----------------------|--------------|
| Peak value: | | 1 | | 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 |
| 4844.00 | 36.29 | 31.81 | 8.63 | 32.11 | | 44.62 | 74.00 | | -29.38 | Vertical |
| 7266.00 | 31.69 | 36.28 | 11.69 | 31.94 | | 47.72 | 74.00 | | -26.28 | Vertical |
| 9688.00 | 30.91 | 38.13 | 14.21 | 31.52 | | 51.73 | 74.00 | | -22.27 | Vertical |
| 12060.00 | * | | | | | | 74. | 00 | | Vertical |
| 14472.00 | * | | | | | | 74. | 00 | | Vertical |
| 16884.00 | * | | | | | | 74. | 00 | | Vertical |
| 4844.00 | 35.58 | 31.81 | 8.63 | 32.11 | | 43.91 | 74. | 00 | -30.09 | Horizontal |
| 7266.00 | 31.75 | 36.28 | 11.69 | 31.94 | | 47.78 | 74. | 00 | -26.22 | Horizontal |
| 9688.00 | 30.62 | 38.13 | 14.21 | 31.52 | | 51.44 | 74. | 00 | -22.56 | Horizontal |
| 12060.00 | * | | | | | | 74. | 00 | | Horizontal |
| 14472.00 | * | | | | | | 74. | 00 | | Horizontal |
| 16884.00 | * | | | | | | 74. | 00 | | Horizontal |

Average value:

| 5 | | | | | | | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 | 25.69 | 31.81 | 8.63 | 32.11 | 34.02 | 54.00 | -19.98 | Vertical |
| 7266.00 | 20.64 | 36.28 | 11.69 | 31.94 | 36.67 | 54.00 | -17.33 | Vertical |
| 9688.00 | 21.32 | 38.13 | 14.21 | 31.52 | 42.14 | 54.00 | -11.86 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4844.00 | 25.33 | 31.81 | 8.63 | 32.11 | 33.66 | 54.00 | -20.34 | Horizontal |
| 7266.00 | 20.40 | 36.28 | 11.69 | 31.94 | 36.43 | 54.00 | -17.57 | Horizontal |
| 9688.00 | 20.43 | 38.13 | 14.21 | 31.52 | 41.25 | 54.00 | -12.75 | 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. "*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11n(H | IT40) | | 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 | 36.04 | 31.85 | 8.66 | 32.12 | | 44.43 | 74. | 00 | -29.57 | Vertical |
| 7311.00 | 32.20 | 36.37 | 11.71 | 31.91 | | 48.37 | 74. | 00 | -25.63 | Vertical |
| 9748.00 | 32.24 | 38.27 | 14.25 | 31.56 | | 53.20 | 74. | 00 | -20.80 | Vertical |
| 12185.00 | * | | | | | | 74.00 | | | Vertical |
| 14622.00 | * | | | | | | 74.00 | | | Vertical |
| 17059.00 | * | | | | | | 74.0 | | | Vertical |
| 4874.00 | 37.03 | 31.85 | 8.66 | 32 | 2.12 | 45.42 | 74. | 00 | -28.58 | Horizontal |
| 7311.00 | 31.10 | 36.37 | 11.71 | 31 | .91 | 47.27 | 74.00 | | -26.73 | Horizontal |
| 9748.00 | 32.24 | 38.27 | 14.25 | 31.56 | | 53.20 | 74.00 | | -20.80 | Horizontal |
| 12185.00 | * | | | | | | 74.00 | | | Horizontal |
| 14622.00 | * | | | | | | 74. | 00 | | Horizontal |
| 17059.00 | * | | | | | | 74. | 00 | | Horizontal |
| Average val | | | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Fa | eamp ctor dB) | Level (dBuV/m) | Limit (dBu | | Over Limit (dB) | polarization |
| 4874.00 | 27.15 | 31.85 | 8.66 | 32 | 2.12 | 35.54 | 54. | 00 | -18.46 | Vertical |
| 7311.00 | 20.58 | 36.37 | 11.71 | 31 | .91 | 36.75 | 54. | 00 | -17.25 | Vertical |
| 9748.00 | 21.55 | 38.27 | 14.25 | 31 | .56 | 42.51 | 54. | 00 | -11.49 | Vertical |
| 12185.00 | * | | | | | | 54. | 00 | | Vertical |
| 14622.00 | * | | | | | | 54. | 00 | | Vertical |
| 17059.00 | * | | | | | | 54. | 00 | | Vertical |
| 4874.00 | 27.32 | 31.85 | 8.66 | 32 | 2.12 | 35.71 | 54. | 00 | -18.29 | Horizontal |
| 7311.00 | 20.24 | 36.37 | 11.71 | 31 | .91 | 36.41 | 54. | 00 | -17.59 | Horizontal |
| 9748.00 | 22.01 | 38.27 | 14.25 | 31 | .56 | 42.97 | 54. | 00 | -11.03 | 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: | High | est | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| Peak value: | | | | | | <u> </u> | | |
| 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 | 39.17 | 31.88 | 8.68 | 32.13 | 47.60 | 74.00 | -26.40 | Vertical |
| 7356.00 | 31.36 | 36.45 | 11.75 | 31.86 | 47.70 | 74.00 | -26.30 | Vertical |
| 9808.00 | 34.45 | 38.43 | 14.29 | 31.68 | 55.49 | 74.00 | -18.51 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4904.00 | 39.37 | 31.88 | 8.68 | 32.13 | 47.80 | 74.00 | -26.20 | Horizontal |
| 7356.00 | 30.71 | 36.45 | 11.75 | 31.86 | 47.05 | 74.00 | -26.95 | Horizontal |
| 9808.00 | 30.82 | 38.43 | 14.29 | 31.68 | 51.86 | 74.00 | -22.14 | 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 | 30.54 | 31.88 | 8.68 | 32.13 | 38.97 | 54.00 | -15.03 | Vertical |
| 7356.00 | 21.40 | 36.45 | 11.75 | 31.86 | 37.74 | 54.00 | -16.26 | Vertical |
| 9808.00 | 23.06 | 38.43 | 14.29 | 31.68 | 44.10 | 54.00 | -9.90 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4904.00 | 30.03 | 31.88 | 8.68 | 32.13 | 38.46 | 54.00 | -15.54 | Horizontal |
| 7356.00 | 20.20 | 36.45 | 11.75 | 31.86 | 36.54 | 54.00 | -17.46 | Horizontal |
| 9808.00 | 20.17 | 38.43 | 14.29 | 31.68 | 41.21 | 54.00 | -12.79 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 54.00 | | Horizontal |

Remark:

Shenzhen, China 518102

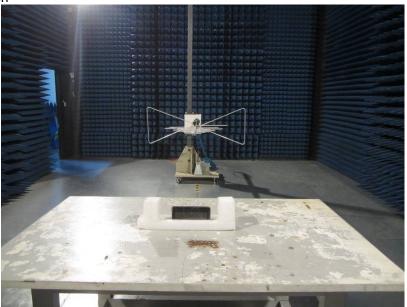
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

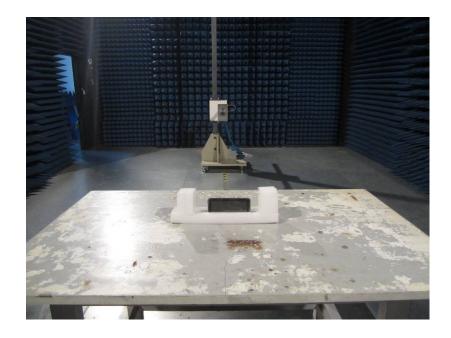
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission





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



Conducted Emission





9 EUT Constructional Details





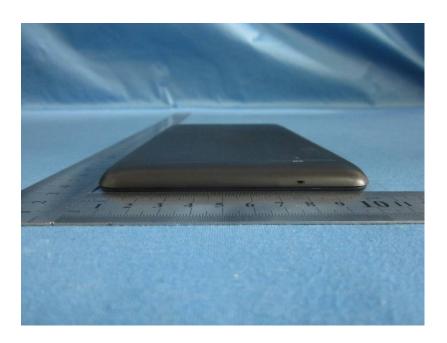






Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960







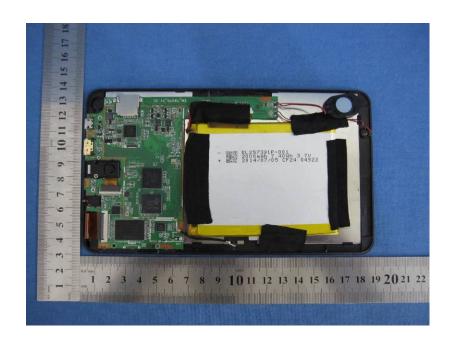






Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

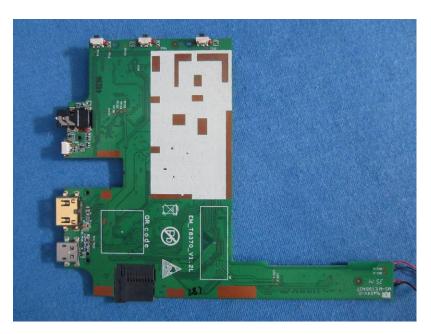












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