

Global United Technology Services Co., Ltd.

Report No.: GTSE15070141801

FCC Report (WIFI)

Applicant: Great Harmony Electronics Industrial Limited

F5.E Building.Dakan Technology Park. Xili Town,Nanshan **Address of Applicant:**

District. Shenzhen. China

Equipment Under Test (EUT)

Product Name: Smart TV Box

Model No.: U41-6, U41-6A, U41-6AT

FCC ID: 2AFSBU41-6

FCC CFR Title 47 Part 15 Subpart C Section 15.247:2014 **Applicable standards:**

August 18, 2015 Date of sample receipt:

Date of Test: August 19-25, 2015

Date of report issued: August 26, 2015

PASS * **Test Result:**

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

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



2 Version

| Version No. | Date | Description |
|-------------|-----------------|-------------|
| 00 | August 26, 2015 | Original |
| | | |
| | | |
| | | |
| | | |

| Prepared By: | Sam. 900 | Date: | August 26, 2015 |
|--------------|------------------|-------|-----------------|
| | Project Engineer | | |
| Check By: | hank. yan | Date: | August 26, 2015 |

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.

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 Emission 0.15MHz ~ 30MHz ± 3.45dB | | | | |
| Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%. | | | | |



5 General Information

5.1 Client Information

| Applicant: | Great Harmony Electronics Industrial Limited |
|--------------------------|--|
| Address of Applicant: | F5.E Building.Dakan Technology Park. Xili Town,Nanshan District. Shenzhen. China |
| Manufacturer: | Shenzhen Ulike Technology Co.,Ltd. |
| Address of Manufacturer: | F5.E Building.Dakan Technology Park. Xili Town,Nanshan District. Shenzhen. China |

5.2 General Description of EUT

| Product Name: | Smart TV Box |
|------------------------|---|
| Model No.: | U41-6, U41-6A, U41-6AT |
| 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 |
| | 802.11n(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: | 2.0dBi(declare by Applicant) |
| Power supply: | AC/DC Adapter: |
| | Model No.: JKXXXYYY-1201000 |
| | Input: AC 100-240V, 50/60Hz, 0.5A |
| | Output: DC 12V, 1000mA |

Remark:

Antenna number : 2(MIMO technology)
Directional Antenna gain: 2+10log2=5.01dBi



| Operation | 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:

| Toot abound | Frequency (MHz) | | |
|-----------------|-------------------------------|---------------|--|
| Test channel | 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 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:

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

| Manufacturer | Description | Model | Serial Number | FCC ID/DoC |
|--------------|-------------|--------------|----------------|------------|
| PHILIPS | LCD TV | 19PFL3120/T3 | AU1A1212002906 | DoC |



5.5 Test Facility

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

• 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: Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong

Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102

Tel: 0755-27798480 Fax: 0755-27798960



6 Test Instruments list

| Rad | iated 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. 27 2015 | Mar. 26 2016 |
| 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 | Dec. 4 2014 | Dec. 3 2015 |
| 4 | EMI Test Receiver | Rohde & Schwarz | ESU26 | GTS203 | June 30 2015 | June 29 2016 |
| 5 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | GTS214 | June 30 2015 | June 29 2016 |
| 6 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | 9120D-829 | GTS208 | June 26 2015 | June 25 2016 |
| 7 | Horn Antenna | ETS-LINDGREN | 3160 | GTS217 | Mar. 27 2015 | Mar. 26 2016 |
| 8 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 9 | Coaxial Cable | GTS | N/A | GTS213 | Mar. 28 2015 | Mar. 27 2016 |
| 10 | Coaxial Cable | GTS | N/A | GTS211 | Mar. 28 2015 | Mar. 27 2016 |
| 11 | Coaxial cable | GTS | N/A | GTS210 | Mar. 28 2015 | Mar. 27 2016 |
| 12 | Coaxial Cable | GTS | N/A | GTS212 | Mar. 28 2015 | Mar. 27 2016 |
| 13 | Amplifier(100kHz-3GHz) | HP | 8347A | GTS204 | June 30 2015 | June 29 2016 |
| 14 | Amplifier(2GHz-20GHz) | HP | 8349B | GTS206 | June 30 2015 | June 29 2016 |
| 15 | Amplifier (18-26GHz) | Rohde & Schwarz | AFS33-18002 650-30-8P-44 | GTS218 | June 26 2015 | June 25 2016 |
| 16 | Band filter | Amindeon | 82346 | GTS219 | Mar. 28 2015 | Mar. 27 2016 |
| 17 | Power Meter | Anritsu | ML2495A | GTS540 | June 30 2015 | June 29 2016 |
| 18 | Power Sensor | Anritsu | MA2411B | GTS541 | June 30 2015 | June 29 2016 |

| Cond | Conducted Emission: | | | | | | | | | | |
|------|---------------------|--------------------------------|----------------------|------------------|------------------------|----------------------------|--|--|--|--|--|
| Item | Test Equipment | t Equipment Manufacturer | | 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 | Sep. 07 2013 | Sep. 06 2015 | | | | | |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESCS30 | GTS223 | June 30 2015 | June 29 2016 | | | | | |
| 3 | 10dB Pulse Limita | Rohde & Schwarz | N/A | GTS224 | June 30 2015 | June 29 2016 | | | | | |
| 4 | Coaxial Switch | ANRITSU CORP | MP59B | GTS225 | June 30 2015 | June 29 2016 | | | | | |
| 5 | LISN | SCHWARZBECK MESS-ELEKTRONIK | NSLK 8127 | GTS226 | June 30 2015 | June 29 2016 | | | | | |
| 6 | Coaxial Cable | GTS | N/A | GTS227 | June 30 2015 | June 29 2016 | | | | | |
| 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 07 2015 | July 06 2016 | | | | |



7 Test results and Measurement Data

7.1 Antenna requirement

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

15.203 requirement:

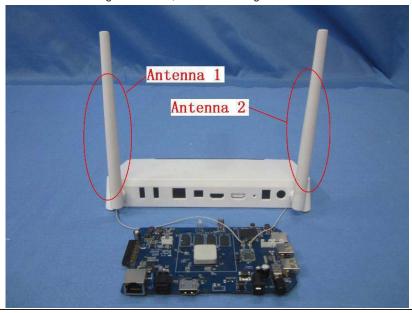
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

E.U.T Antenna:

The antenna is Integral antenna, the best case gain of the antenna is 2dBi





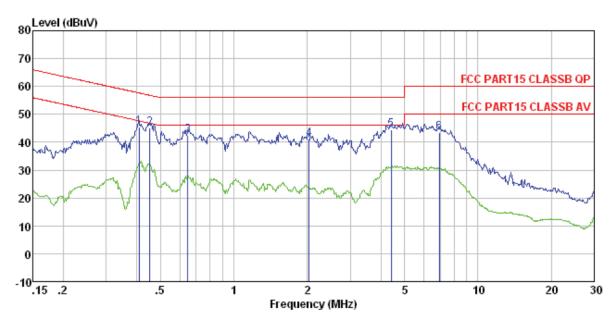
7.2 Conducted Emissions

| Test Requirement: | FCC Part15 C Section 15.207 | , | | | | | |
|-----------------------|---|--|---|--|--|--|--|
| Test Method: | ANSI C63.10:2013 | | | | | | |
| | 150KHz to 30MHz | | | | | | |
| Test Frequency Range: | | | | | | | |
| Class / Severity: | Class B | | | | | | |
| Receiver setup: | RBW=9KHz, VBW=30KHz, Sv | | | | | | |
| Limit: | Frequency range (MHz) | Limit (c | | | | | |
| | , , , | Quasi-peak 66 to 56* | Average 56 to 46* | | | | |
| | 0.15-0.5 0.5-5 | 56 | 46 | | | | |
| | 5-30 | 60 | 50 | | | | |
| | * Decreases with the logarithm | | | | | | |
| Test setup: | Reference Plane | • | | | | | |
| | AUX Equipment Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m | Filter — AC pow | | | | | |
| Test procedure: | The E.U.T and simulators a line impedance stabilization 50ohm/50uH coupling impedance. The peripheral devices are LISN that provides a 50ohr | n network (L.I.S.N.). The edance for the measuri also connected to the | nis provides a ng equipment. main power through a | | | | |
| | termination. (Please refer to photographs). | | | | | | |
| | 3. 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 5.3 for details | 3 | | | | | |
| Test results: | Pass | | | | | | |



Measurement data

Line:



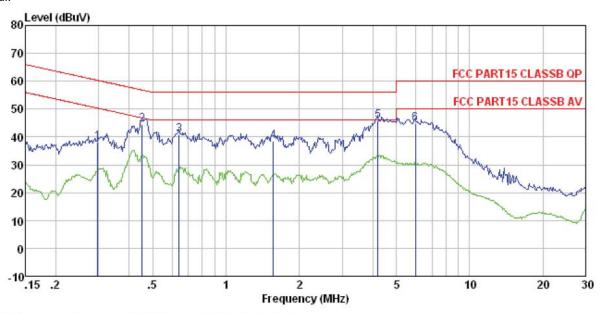
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 1418RF Test mode : WiFi mode Test Engineer: Song

| | Freq | | LISN Factor | | | | Over Limit | Remark |
|-----------------------|--------------------------------------|-------------------------|------------------------------|------------------------------|----------------------------|----------------------------------|--------------------------------------|----------------------|
| | MHz | -dBuV | dB | dB | dBu₹ | dBuV | dB | |
| 1 2 3 4 5 | 0. 452 0. 647 2. 033 4. 407 | 42.19 40.75 44.01 | 0.12 0.13 0.12 0.20 | 0.11 0.13 0.15 0.15 | 42. 45 41. 02 44. 36 | 56.85 56.00 56.00 56.00 | -11.86 -13.55 -14.98 -11.64 | QP QP QP QP |
| 6 | 6.951 | 43.05 | 0.25 | 0.17 | 43.47 | 60.00 | -16.53 | QP |



Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 1418RF Test mode : WiFi mode Test Engineer: Song

5.993

44.42

Read LISN Cable Limit 0ver Freq Level Factor Loss Level Line Limit Remark MHz dBuV dB dB dBuV dBuV dB 0.297 38.04 0.06 0.10 38.20 60.32 -22.12 QP 0.45244.26 0.06 0.11 44.43 56.85 -12.42 QP 0.641 40.70 0.07 0.13 40.90 56.00 -15.10 QP 1.568 38.37 0.09 0.1438.60 56.00 -17.40 QP 4.202 45.51 0.140.1545.80 56.00 -10.20 QP

Notes:

2

3

4

5

6

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

0.16

- 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

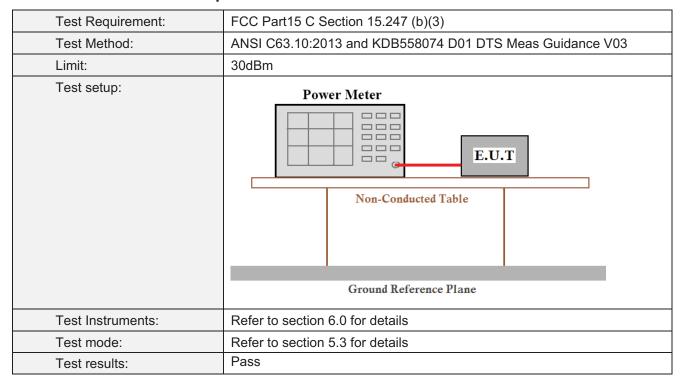
0.16

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.

44.74 60.00 -15.26 QP



7.3 Conducted Peak Output Power



Measurement Data



| Test mode | Channel | Read Le | vel (dBm) | Read Level (mW) | Total Peak Output Power (mW) | Total Peak Output Power (dBm) | Limit (dBm) | Result |
|--------------|---------------|---------|-----------|--------------------|------------------------------------|-------------------------------------|----------------|--------|
| | Lowest | ANT1 | 17.57 | 57.15 | 94.56 | 10.76 | | |
| | Lowest | ANT2 | 15.73 | 37.41 | 94.56 | 19.76 | | |
| 000 116 | Middle | ANT1 | 17.87 | 61.24 | 100 50 | 20.02 | 1 | |
| 802.11b | ivildale | ANT2 | 15.95 | 39.36 | 100.59 | 20.03 | | |
| | l limboot | ANT1 | 17.96 | 62.52 | 101.33 | 20.06 | | |
| | Highest | ANT2 | 15.89 | 38.82 | 101.33 | 20.06 | | |
| | Lawaat | ANT1 | 15.76 | 37.67 | 64.06 | 10.12 | | |
| | Lowest | ANT2 | 14.36 | 27.29 | 64.96 | 18.13 | | Pass |
| 000 11 ~ | Middle | ANT1 | 15.87 | 38.64 | 67.10 | 18.27 | | |
| 802.11g | | ANT2 | 14.55 | 28.51 | 67.10 | | | |
| | Highest | ANT1 | 15.75 | 37.58 | 64.50 | 18.10 | | |
| | | ANT2 | 14.3 | 26.92 | 04.50 | | 30 | |
| | Lowest | ANT1 | 14.45 | 27.86 | 40.00 | 17.02 | _ | |
| | Lowest | ANT2 | 13.53 | 22.54 | 48.36 | | | |
| 802.11n | Middle | ANT1 | 14.98 | 31.48 | 54.18 | 47.04 | | |
| (HT20) | ivildale | ANT2 | 13.56 | 22.70 | 54.18 | 17.34 | | |
| | Llighoot | ANT1 | 14.73 | 29.72 | E2 42 | 17.00 | | |
| | Highest | ANT2 | 13.75 | 23.71 | 53.43 | 17.28 | | |
| | Lawaat | ANT1 | 13.5 | 22.39 | 27.66 | 15.70 | | |
| | Lowest | ANT2 | 11.84 | 15.28 | 37.66 | 15.76 | | |
| 802.11n | Middle | ANT1 | 12.75 | 18.84 | 22.70 | 15 15 | | |
| (HT40) | Middle | ANT2 | 11.42 | 13.87 | 32.70 | 15.15 | | |
| | l liada a a t | ANT1 | 12.24 | 16.75 | 24.24 | 14.00 | | |
| | Highest | ANT2 | 11.64 | 14.59 | 31.34 | 14.96 | | |



7.4 Channel Bandwidth

| Test Requirement: | FCC Part15 C Section 15.247 (a)(2) |
|-------------------|---|
| Test Method: | ANSI C63.10:2013 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

ANT1:

| Tost CH | Test CH | | Channel Ban | Limit(KHz) | Result | | | |
|---------|----------|---------|-------------|---------------|---------------|----------------|--------|--|
| | rest orr | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | LIIIII((KI IZ) | Nesull | |
| | Lowest | 9.577 | 15.143 | 17.636 | 36.122 | | | |
| | Middle | 10.015 | 15.499 | 17.626 | 36.107 | >500 | Pass | |
| | Highest | 9.587 | 14.201 | 17.680 | 36.062 | | | |

ANT2:

| Test CH | | Channel Ban | Limit(KHz) | Result | | |
|---------|---------|-------------|---------------|---------------|---------------|--------|
| Test CH | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | LIIIII(KI IZ) | Nesult |
| Lowest | 9.550 | 16.377 | 17.648 | 35.882 | | |
| Middle | 9.108 | 16.411 | 17.642 | 36.077 | >500 | Pass |
| Highest | 9.135 | 16.380 | 17.638 | 35.863 | 1 | |

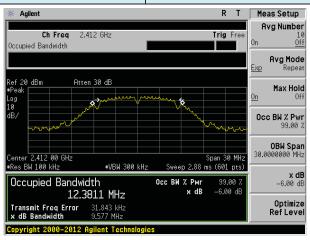
Test plot as follows:

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

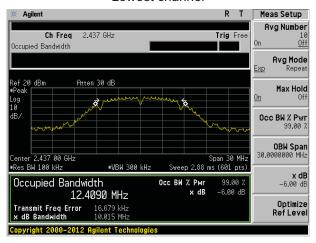


ANT1:

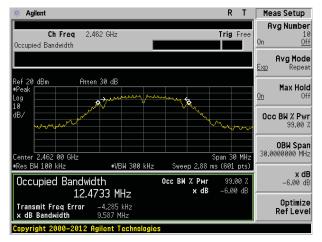
Test mode: 802.11b



Lowest channel



Middle channel

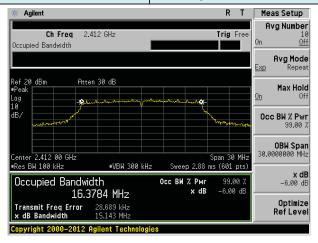


Highest channel

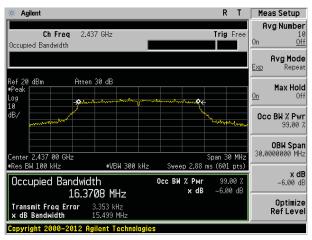
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



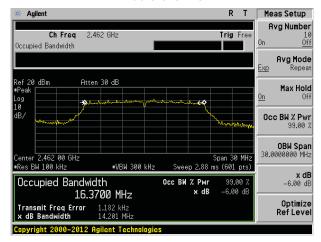
Test mode: 802.11g



Lowest channel



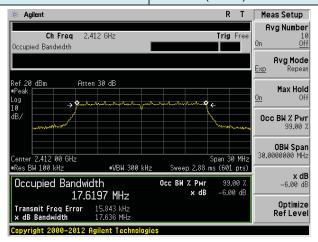
Middle channel



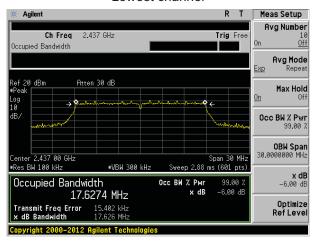
Highest channel



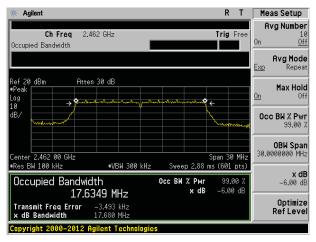
Test mode: 802.11n(HT20)



Lowest channel



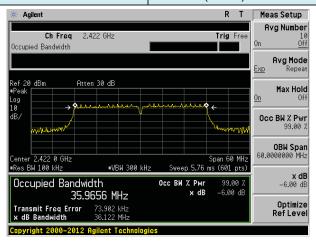
Middle channel



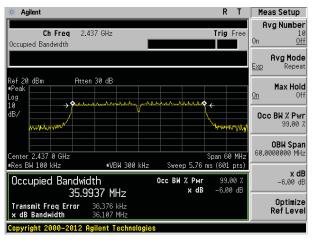
Highest channel



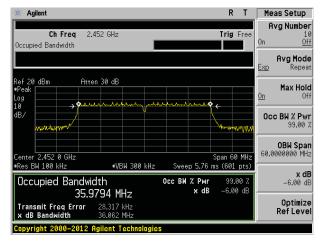
Test mode: 802.11n(HT40)



Lowest channel



Middle channel

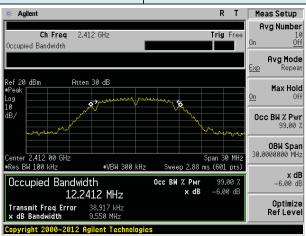


Highest channel

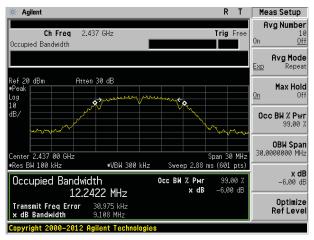


ANT2:

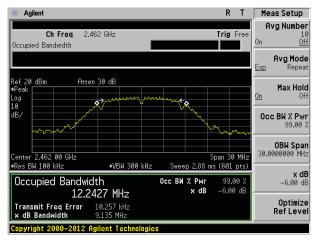
Test mode: 802.11b



Lowest channel



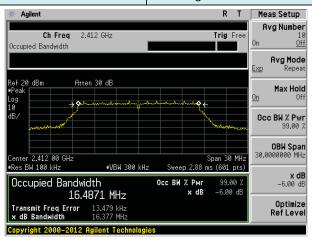
Middle channel



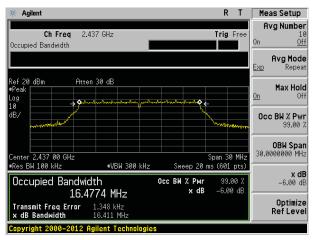
Highest channel



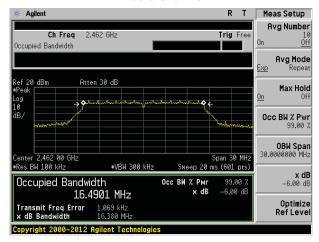
Test mode: 802.11g



Lowest channel



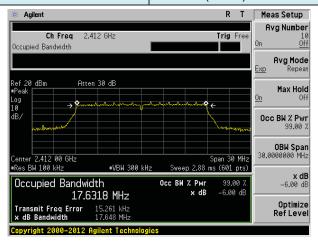
Middle channel



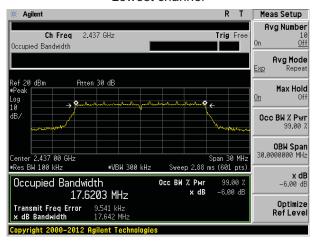
Highest channel



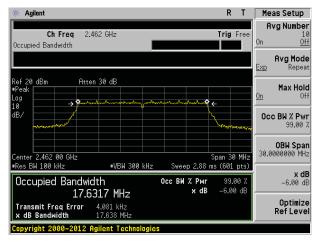
Test mode: 802.11n(HT20)



Lowest channel



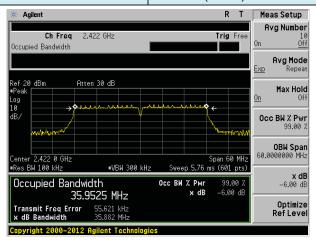
Middle channel



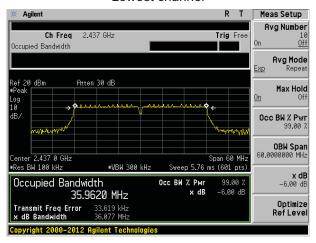
Highest channel



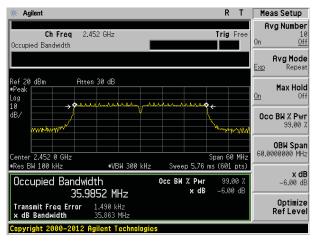
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.5 Power Spectral Density

| Test Requirement: Test Method: | FCC Part15 C Section 15.247 (e) ANSI C63.10:2013 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

ANT1

| Test CH | | Power Spectra | Limit(dBm/3kHz) | Result | | |
|---------|---------|---------------|-----------------|---------------|-------------------|--------|
| | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | Limit(dBin/3Ki12) | Nesuit |
| Lowest | -7.06 | -11.59 | -13.14 | -18.19 | | |
| Middle | -6.05 | -10.79 | -11.16 | -14.06 | 8.00 | Pass |
| Highest | -6.74 | -12.51 | -12.40 | -16.86 | | |

ANT2

| Test CH | | Power Spectra | | Limit(dBm/3kHz) | Result | |
|---------|---------|---------------|---------------|-----------------|---------------------|--------|
| | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | Lilliit(ubili/3kH2) | Result |
| Lowest | -9.64 | -13.80 | -12.91 | -18.09 | | |
| Middle | -10.08 | -13.95 | -12.87 | -16.12 | 8.00 | Pass |
| Highest | -10.02 | -12.39 | -11.05 | -17.68 | | |

Result:

worse case is -6.05dBm

10log2=3.01

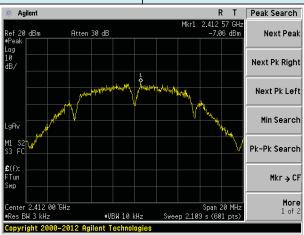
So PSD is -6.05+3.01= -3.04dBm \leq 8dBm



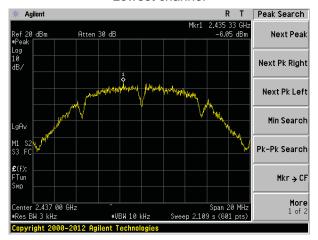
Test plot as follows:

ANT1:

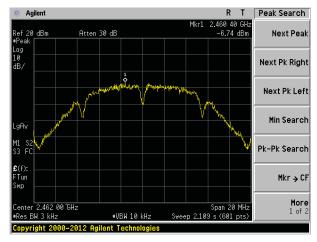
Test mode: 802.11b



Lowest channel



Middle channel

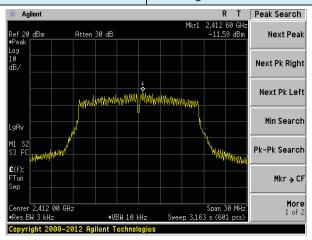


Highest channel

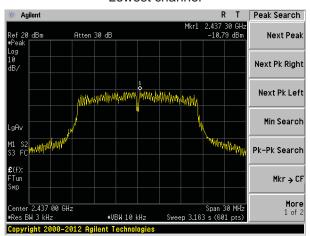
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



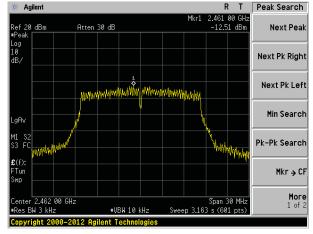
Test mode: 802.11g



Lowest channel



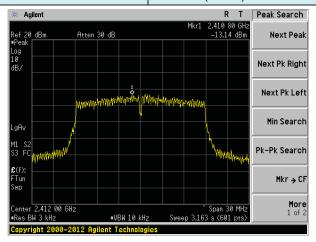
Middle channel



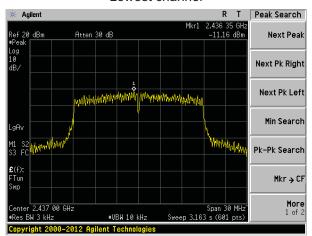
Highest channel



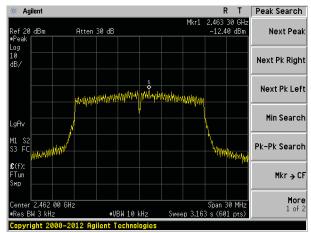
Test mode: 802.11n(HT20)



Lowest channel



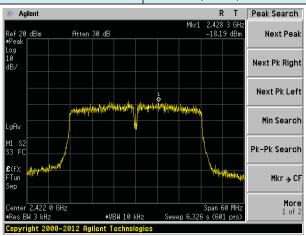
Middle channel



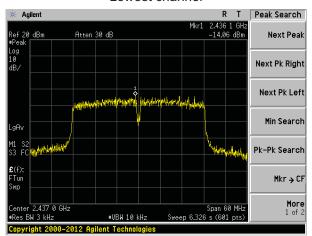
Highest channel



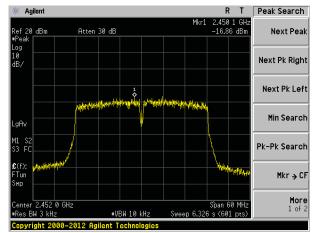
Test mode: 802.11n(HT40)



Lowest channel



Middle channel

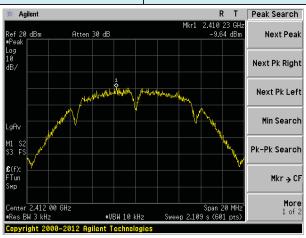


Highest channel

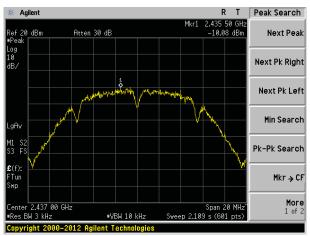


ANT2:

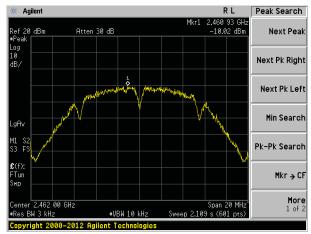
Test mode: 802.11b



Lowest channel



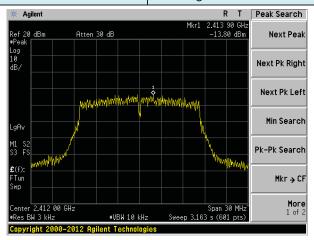
Middle channel



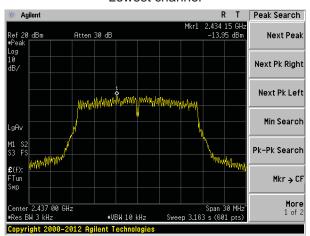
Highest channel



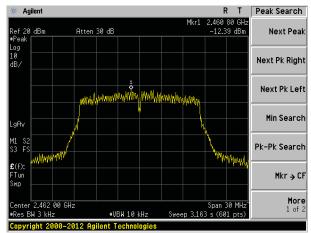
Test mode: 802.11g



Lowest channel



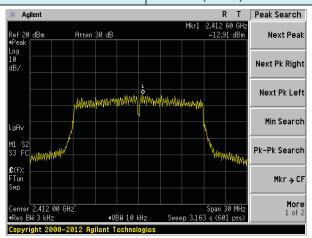
Middle channel



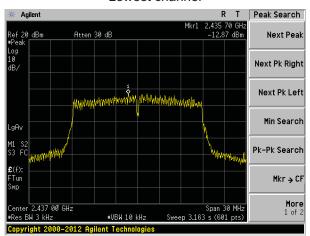
Highest channel



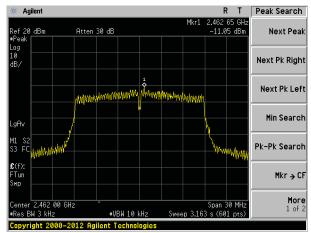
Test mode: 802.11n(HT20)



Lowest channel



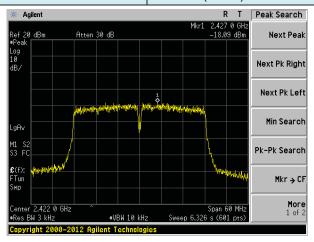
Middle channel



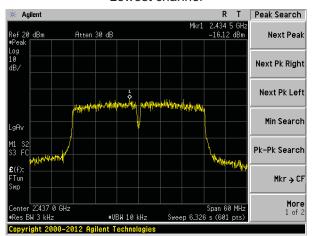
Highest channel



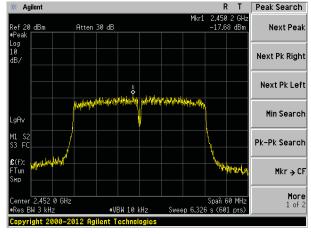
Test mode: 802.11n(HT40)



Lowest channel



Middle channel



Highest channel



7.6 Band edges

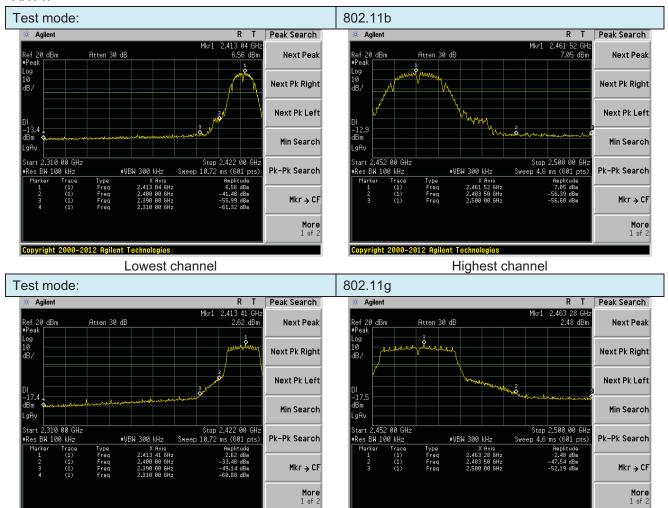
7.6.1 Conducted Emission Method

| Tari Dan Sarani | FOO D. 145 O O. 15 45 O 7 (1) |
|-------------------|---|
| Test Requirement: | FCC Part15 C Section 15.247 (d) |
| Test Method: | ANSI C63.10:2013 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 |



Test plot as follows:

ANT1:

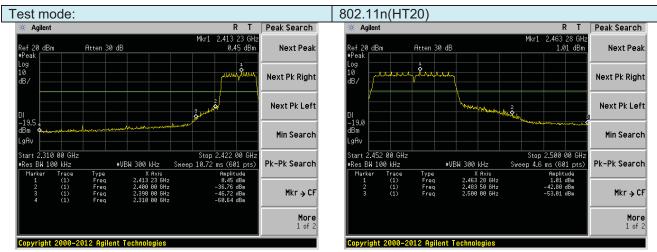


Lowest channel Highest channel

Copyright 2000-2012 Agilent Technologies

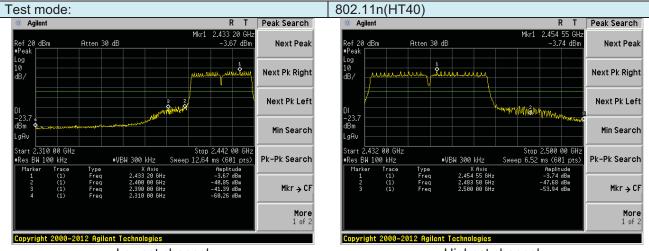
Copyright 2000-2012 Agilent Technologies





Lowest channel

Highest channel

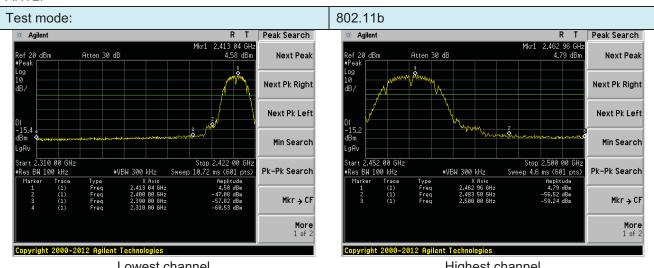


Lowest channel

Highest channel



ANT2:

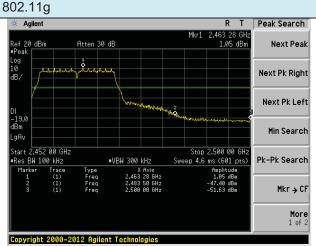


Lowest channel

Highest channel

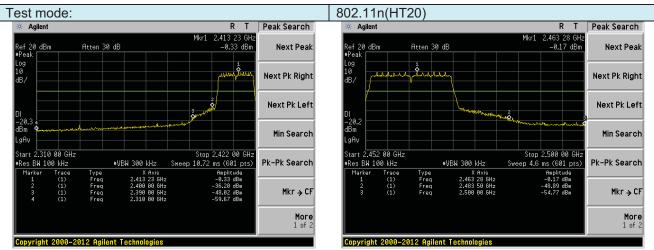
Test mode: Agilent R T Peak Search Atten 30 dB Next Peak Next Pk Right Next Pk Left Min Search Start 2.310 00 GHz •Res BW 100 kHz Stop 2.422 00 GHz Sweep 10.72 ms (601 pts) #VBW 300 kHz Pk-Pk Search Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

Lowest channel



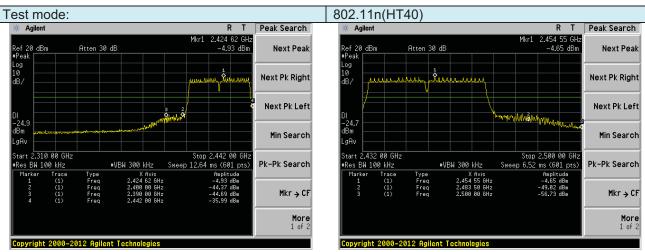
Highest channel





Lowest channel

Highest channel



Lowest channel

Highest channel



7.6.2 Radiated Emission Method

| Test Requirement: | FCC Part15 C Section 15.209 and 15.205 | | | | | | | | |
|-----------------------|--|------------------|--------------|--------------|------------------|--|--|--|--|
| Test Method: | ANSI C63.10:20 |)13 | | | | | | | |
| Test Frequency Range: | All of the restrict 2500MHz) data | | tested, only | the worst ba | nd's (2310MHz to | | | | |
| Test site: | Measurement D | istance: 3m | | | | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Value | | | | |
| | Above 1CHz | Peak | 1MHz | 3MHz | Peak | | | | |
| | Above 1GHz | RMS | 1MHz | 3MHz | Average | | | | |
| Limit: | Freque | ency | Limit (dBuV/ | /m @3m) | Value | | | | |
| | A boyes 1 | CH- | 54.0 | 0 | Average | | | | |
| | Above 1 | GHZ | 74.0 | 0 | Peak | | | | |
| Test setup: | Antenna Tower Horn Antenna Spectrum Analyzer Turn Table 1.5m A A A A A A A A A A A A A A A A A A A | | | | | | | | |
| Test Procedure: | A Im | | | | | | | | |
| Test Instruments: | Refer to section | | | | | | | | |
| Test mode: | KEEPING MIMO | ı ransmitter mod | e | | | | | | |
| Test results: | Pass | | | | | | | | |

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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.

ANT1+ANT2:

| ANTITANT | <u></u> | | | | | | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|---------|--------------|
| Test mode: | | 802.1 | 1b | Te | st 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 Limit | Polarization |
| 2390.00 | 50.22 | 27.59 | 5.38 | 30.18 | 53.01 | 74.00 | -20.99 | Horizontal |
| 2400.00 | 58.00 | 27.58 | 5.39 | 30.18 | 60.79 | 74.00 | -13.21 | Horizontal |
| 2390.00 | 51.81 | 27.59 | 5.38 | 30.18 | 54.60 | 74.00 | -19.40 | Vertical |
| 2400.00 | 60.17 | 27.58 | 5.39 | 30.18 | 62.96 | 74.00 | -11.04 | 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 Limit | Polarization |
| 2390.00 | 37.40 | 27.59 | 5.38 | 30.18 | 40.19 | 54.00 | -13.81 | Horizontal |
| 2400.00 | 42.40 | 27.58 | 5.39 | 30.18 | 45.19 | 54.00 | -8.81 | Horizontal |
| 2390.00 | 39.10 | 27.59 | 5.38 | 30.18 | 41.89 | 54.00 | -12.11 | Vertical |
| 2400.00 | 44.55 | 27.58 | 5.39 | 30.18 | 47.34 | 54.00 | -6.66 | Vertical |
| | | - | | | • | | - | |
| Test mode: | | 802.1 | 1b | Te | st channel: | | Highest | |
| Peak value: | | | | | | <u> </u> | | |
| Frequency (MHz) | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | I Limit | Polarization |

| 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 | 50.27 | 27.53 | 5.47 | 29.93 | 53.34 | 74.00 | -20.66 | Horizontal |
| 2500.00 | 46.55 | 27.55 | 5.49 | 29.93 | 49.66 | 74.00 | -24.34 | Horizontal |
| 2483.50 | 52.24 | 27.53 | 5.47 | 29.93 | 55.31 | 74.00 | -18.69 | Vertical |
| 2500.00 | 48.79 | 27.55 | 5.49 | 29.93 | 51.90 | 74.00 | -22.10 | 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 |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 2483.50 | 37.54 | 27.53 | 5.47 | 29.93 | 40.61 | 54.00 | -13.39 | Horizontal |
| 2500.00 | 33.92 | 27.55 | 5.49 | 29.93 | 37.03 | 54.00 | -16.97 | Horizontal |
| 2483.50 | 39.36 | 27.53 | 5.47 | 29.93 | 42.43 | 54.00 | -11.57 | Vertical |
| 2500.00 | 35.74 | 27.55 | 5.49 | 29.93 | 38.85 | 54.00 | -15.15 | 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.

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Test mode:

802.11g

Report No.: GTSE15070141801

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 | 49.59 | 27.59 | 5.38 | 30.18 | 52.38 | 74.00 | -21.62 | Horizontal | | |
| 2400.00 | 57.91 | 27.58 | 5.39 | 30.18 | 60.70 | 74.00 | -13.30 | Horizontal | | |
| 2390.00 | 51.12 | 27.59 | 5.38 | 30.18 | 53.91 | 74.00 | -20.09 | Vertical | | |
| 2400.00 | 59.15 | 27.58 | 5.39 | 30.18 | 61.94 | 74.00 | -12.06 | 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 | 36.94 | 27.59 | 5.38 | 30.18 | 39.73 | 54.00 | -14.27 | Horizontal | | |
| 2400.00 | 42.45 | 27.58 | 5.39 | 30.18 | 45.24 | 54.00 | -8.76 | Horizontal | | |
| 2390.00 | 38.60 | 27.59 | 5.38 | 30.18 | 41.39 | 54.00 | -12.61 | Vertical | | |
| 2400.00 | 43.89 | 27.58 | 5.39 | 30.18 | 46.68 | 54.00 | -7.32 | Vertical | | |
| | | | | • | • | | | | | |
| Test mode: | | 802.1 | 1g | Tes | st channel: | H | 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 | 49.36 | 27.53 | 5.47 | 29.93 | 52.43 | 74.00 | -21.57 | Horizontal | | |
| 2500.00 | 45.84 | 27.55 | 5.49 | 29.93 | 48.95 | 74.00 | -25.05 | Horizontal | | |
| 2483.50 | 51.19 | 27.53 | 5.47 | 29.93 | 54.26 | 74.00 | -19.74 | Vertical | | |
| 2500.00 | 47.97 | 27.55 | 5.49 | 29.93 | 51.08 | 74.00 | -22.92 | 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 | 36.99 | 27.53 | 5.47 | 29.93 | 40.06 | 54.00 | -13.94 | Horizontal | | |
| 2500.00 | 33.49 | 27.55 | 5.49 | 29.93 | 36.60 | 54.00 | -17.40 | Horizontal | | |
| 2483.50 | 38.76 | 27.53 | 5.47 | 29.93 | 41.83 | 54.00 | -12.17 | Vertical | | |
| 2500.00 | 35.29 | 27.55 | 5.49 | 29.93 | 38.40 | 54.00 | -15.60 | Vertical | | |
| Remark: | | | | | | | | | | |

Test channel:

Global United Technology Services Co., Ltd.

Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

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

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



Test mode:

Peak value:

Report No.: GTSE15070141801

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 | 49.40 | 27.59 | 5.38 | 30.18 | 52.19 | 74.00 | -21.81 | Horizontal | | |
| 2400.00 | 57.65 | 27.58 | 5.39 | 30.18 | 60.44 | 74.00 | -13.56 | Horizontal | | |
| 2390.00 | 50.92 | 27.59 | 5.38 | 30.18 | 53.71 | 74.00 | -20.29 | Vertical | | |
| 2400.00 | 58.84 | 27.58 | 5.39 | 30.18 | 61.63 | 74.00 | -12.37 | 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 | 36.81 | 27.59 | 5.38 | 30.18 | 39.60 | 54.00 | -14.40 | Horizontal | | |
| 2400.00 | 42.99 | 27.58 | 5.39 | 30.18 | 45.78 | 54.00 | -8.22 | Horizontal | | |
| 2390.00 | 38.44 | 27.59 | 5.38 | 30.18 | 41.23 | 54.00 | -12.77 | Vertical | | |
| 2400.00 | 43.03 | 27.58 | 5.39 | 30.18 | 45.82 | 54.00 | -8.18 | Vertical | | |
| | | | | | | | | | | |
| Test mode: | | 802.1 | 1n(HT20) | Tes | 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 | 49.08 | 27.53 | 5.47 | 29.93 | 52.15 | 74.00 | -21.85 | Horizontal | | |
| 2500.00 | 45.63 | 27.55 | 5.49 | 29.93 | 48.74 | 74.00 | -25.26 | Horizontal | | |
| 2483.50 | 50.88 | 27.53 | 5.47 | 29.93 | 53.95 | 74.00 | -20.05 | Vertical | | |
| 2500.00 | 47.72 | 27.55 | 5.49 | 29.93 | 50.83 | 74.00 | -23.17 | 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 | 36.83 | 27.53 | 5.47 | 29.93 | 39.90 | 54.00 | -14.10 | Horizontal | | |
| 2500.00 | 33.36 | 27.55 | 5.49 | 29.93 | 36.47 | 54.00 | -17.53 | Horizontal | | |
| 2483.50 | 38.57 | 27.53 | 5.47 | 29.93 | 41.64 | 54.00 | -12.36 | Vertical | | |
| 2500.00 | 35.15 | 27.55 | 5.49 | 29.93 | 38.26 | 54.00 | -15.74 | Vertical | | |
| Remark: | | | | | | | | | | |

Test channel:

802.11n(HT20)

AGIIIAIK.

- 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:

Peak value:

Report No.: GTSE15070141801

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 | 48.99 | 27.59 | 5.38 | 30.18 | 51.78 | 74.00 | -22.22 | Horizontal | | |
| 2400.00 | 57.11 | 27.58 | 5.39 | 30.18 | 59.90 | 74.00 | -14.10 | Horizontal | | |
| 2390.00 | 50.49 | 27.59 | 5.38 | 30.18 | 53.28 | 74.00 | -20.72 | Vertical | | |
| 2400.00 | 58.19 | 27.58 | 5.39 | 30.18 | 60.98 | 74.00 | -13.02 | 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 | 36.52 | 27.59 | 5.38 | 30.18 | 39.31 | 54.00 | -14.69 | Horizontal | | |
| 2400.00 | 42.12 | 27.58 | 5.39 | 30.18 | 44.91 | 54.00 | -9.09 | Horizontal | | |
| 2390.00 | 38.12 | 27.59 | 5.38 | 30.18 | 40.91 | 54.00 | -13.09 | Vertical | | |
| 2400.00 | 42.45 | 27.58 | 5.39 | 30.18 | 45.24 | 54.00 | -8.76 | Vertical | | |
| | • | | | • | | | | | | |
| Test mode: | | 802.1 | 1n(HT40) | Tes | st channel: | H | 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 | 48.51 | 27.53 | 5.47 | 29.93 | 51.58 | 74.00 | -22.42 | Horizontal | | |
| 2500.00 | 45.18 | 27.55 | 5.49 | 29.93 | 48.29 | 74.00 | -25.71 | Horizontal | | |
| 2483.50 | 50.22 | 27.53 | 5.47 | 29.93 | 53.29 | 74.00 | -20.71 | Vertical | | |
| 2500.00 | 47.19 | 27.55 | 5.49 | 29.93 | 50.30 | 74.00 | -23.70 | 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 | 36.48 | 27.53 | 5.47 | 29.93 | 39.55 | 54.00 | -14.45 | Horizontal | | |
| 2500.00 | 33.09 | 27.55 | 5.49 | 29.93 | 36.20 | 54.00 | -17.80 | Horizontal | | |
| 2483.50 | 38.19 | 27.53 | 5.47 | 29.93 | 41.26 | 54.00 | -12.74 | Vertical | | |
| 2500.00 | 34.87 | 27.55 | 5.49 | 29.93 | 37.98 | 54.00 | -16.02 | Vertical | | |
| Remark: | | | | | | | | | | |

Test channel:

802.11n(HT40)

Global United Technology Services Co., Ltd.

Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone,Xixiang Road, Baoan District, Shenzhen 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

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

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



7.7 Spurious Emission

7.7.1 Conducted Emission Method

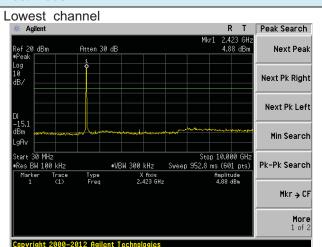
| Test Requirement: | FCC Part15 C Section 15.247 (d) | | | | | | |
|-------------------|---|--|--|--|--|--|--|
| Test Method: | ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03 | | | | | | |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional 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 | | | | | | |



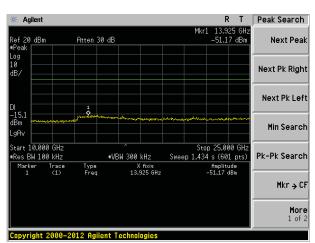
Test plot as follows:

ANT1:

Test mode: 802.11b

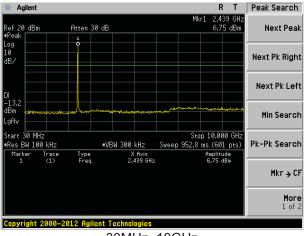


30MHz~10GHz

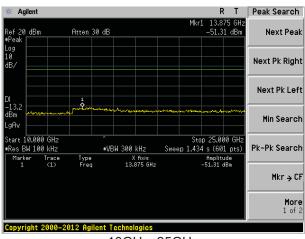


10GHz~25GHz



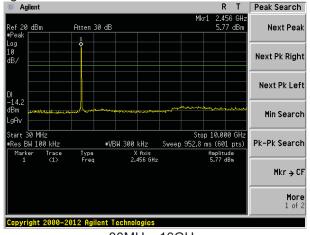


30MHz~10GHz

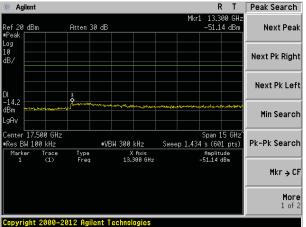


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz

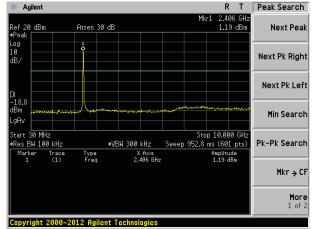
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



Test mode:

802.11g

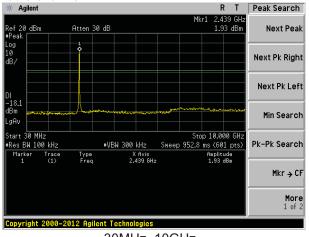
Lowest channel



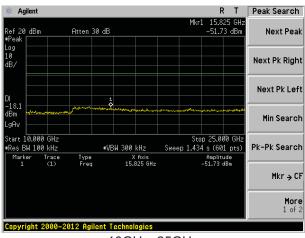
30MHz~10GHz

10GHz~25GHz

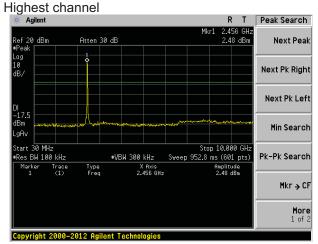
Middle channel



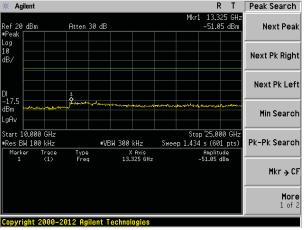
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz



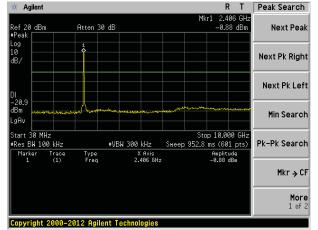
R T Peak Search

Test mode:

802.11n(HT20)

Agilent

Lowest channel

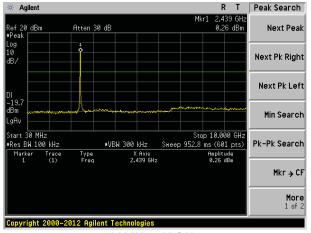


30MHz~10GHz

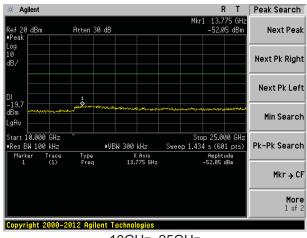
10GHz~25GHz

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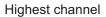
Middle channel

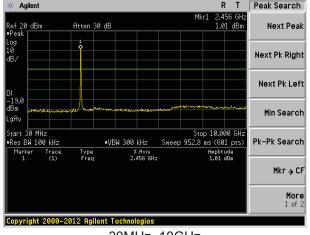


30MHz~10GHz

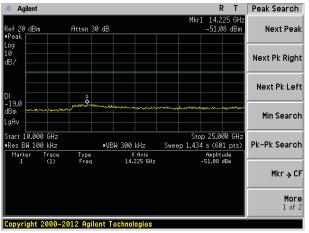


10GHz~25GHz





30MHz~10GHz



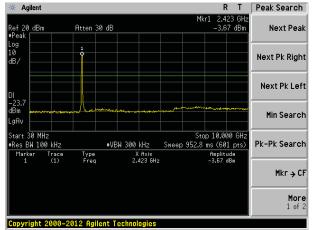
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

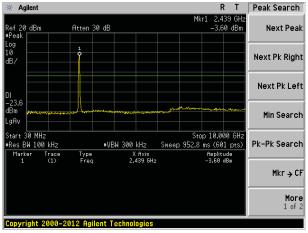


30MHz~10GHz

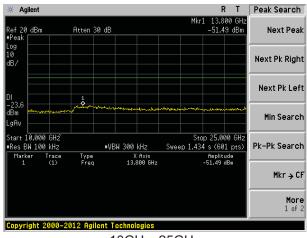
Agilent Peak Search Atten 30 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GH: Sweep 1.434 s (601 pts) Start 10.000 GHz #VBW 300 kHz Pk-Pk Search ≢Res BW 100 kHz Type Freq Amplitude -51.26 dBm X Axis 13.725 GHz Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

Middle channel

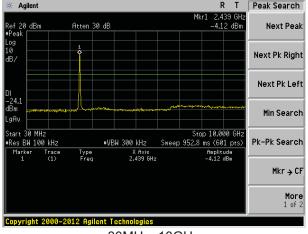


30MHz~10GHz

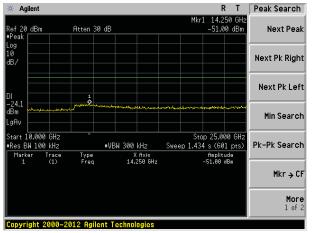


10GHz~25GHz





30MHz~10GHz



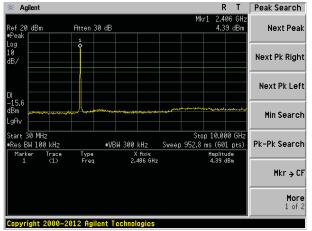
10GHz~25GHz



ANT2:

Test mode: 802.11b

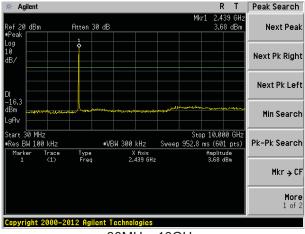
Lowest channel



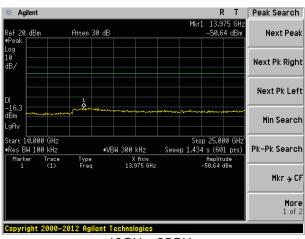
30MHz~10GHz

10GHz~25GHz

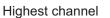
Middle channel

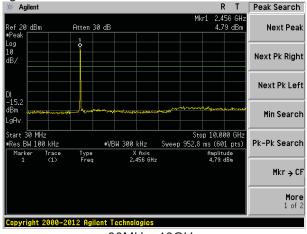


30MHz~10GHz

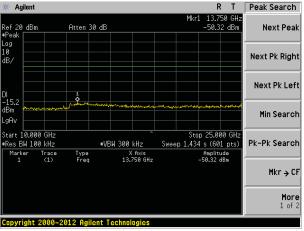


10GHz~25GHz





30MHz~10GHz



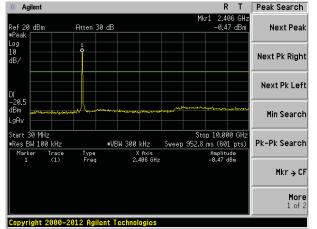
10GHz~25GHz



Test mode:

802.11g

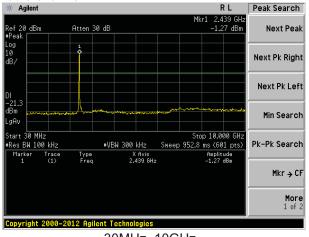
Lowest channel



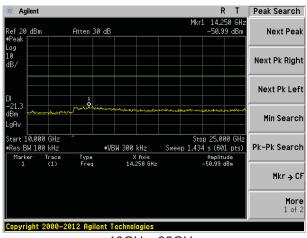
30MHz~10GHz

10GHz~25GHz

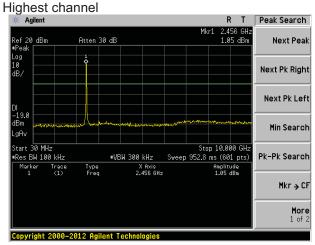
Middle channel



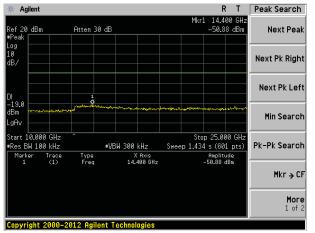
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



10GHz~25GHz



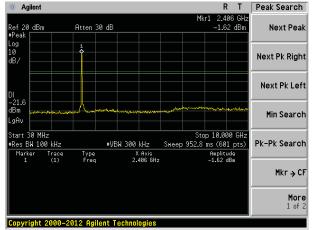
R T Peak Search

Test mode:

802.11n(HT20)

Agilent

Lowest channel



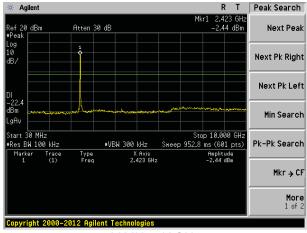
30MHz~10GHz

| Next Peak | Nex

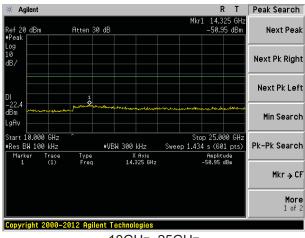
10GHz~25GHz

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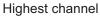
Middle channel

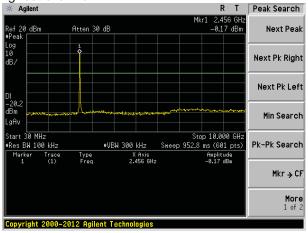


30MHz~10GHz

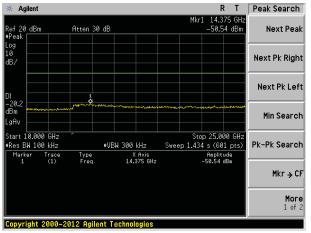


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz

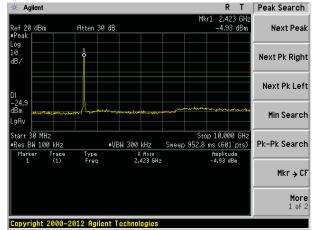
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Test mode:

802.11n(HT40)

Lowest channel

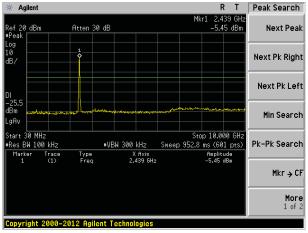


30MHz~10GHz

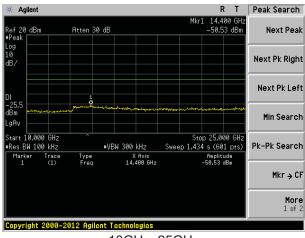
Peak Search Atten 30 dB Next Peak Next Pk Right Next Pk Left Min Search Stop 25.000 GH: Sweep 1.434 s (601 pts) Start 10.000 GHz #VBW 300 kHz Pk-Pk Search Res BW 100 kHz #Res BW 100 kHz Type Freq X Axis 14.550 GHz Amplitude -51.28 dBm Mkr → CF More 1 of 2 Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

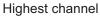
Middle channel

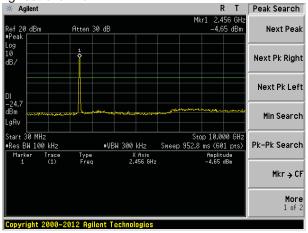


30MHz~10GHz

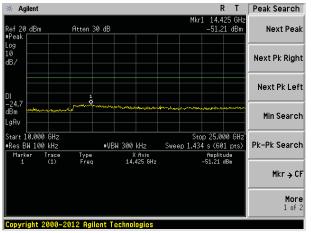


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz

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7.7.2 Radiated Emission Method

| | FCC Part15 C Se | ection 15.209 | | | | |
|-----------------------|-----------------|---------------|--------------|--------|------------|--|
| Test Method: | ANSI C63.10:201 | 3 | | | | |
| Test Frequency Range: | 30MHz to 25GHz | • | | | | |
| Test site: | Measurement Dis | stance: 3m | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Value | |
| | 30MHz-1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-peak | |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak | |
| | Above 1G112 | RMS | 1MHz | 3MHz | Average | |
| Limit: | Frequen | су | Limit (dBuV/ | m @3m) | Value | |
| | 30MHz-88 | MHz | 40.0 | 0 | Quasi-peak | |
| | 88MHz-216 | 6MHz | 43.5 | 0 | Quasi-peak | |
| | 216MHz-96 | 0MHz | 46.0 | 0 | Quasi-peak | |
| | 960MHz-1 | GHz | 54.0 | 0 | Quasi-peak | |
| | Above 16 | 21.1- | 54.0 | 0 | Average | |
| | Above 10 | Above 1GHz | | 74.00 | | |
| | | | 11- | | | |



| Test Procedure: | 1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) 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: | KEEPING MIMO Transmitter mode |
| 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

ANT1+ANT2:

| /////////////////////////////////////// | - | | | | | | | |
|---|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 |
| 36.13 | 43.68 | 14.63 | 0.62 | 30.06 | 28.87 | 40.00 | -11.13 | Vertical |
| 63.98 | 44.45 | 13.11 | 0.89 | 29.89 | 28.56 | 40.00 | -11.44 | Vertical |
| 119.44 | 45.67 | 12.58 | 1.36 | 29.57 | 30.04 | 43.50 | -13.46 | Vertical |
| 260.14 | 40.11 | 14.09 | 2.18 | 29.72 | 26.66 | 46.00 | -19.34 | Vertical |
| 407.52 | 39.14 | 17.22 | 2.89 | 29.48 | 29.77 | 46.00 | -16.23 | Vertical |
| 633.91 | 28.27 | 20.58 | 3.85 | 29.27 | 23.43 | 46.00 | -22.57 | Vertical |
| 53.88 | 35.29 | 15.07 | 0.81 | 29.97 | 21.20 | 40.00 | -18.80 | Horizontal |
| 96.78 | 46.35 | 14.97 | 1.17 | 29.71 | 32.78 | 43.50 | -10.72 | Horizontal |
| 178.76 | 47.89 | 11.62 | 1.73 | 29.28 | 31.96 | 43.50 | -11.54 | Horizontal |
| 314.38 | 43.81 | 15.26 | 2.44 | 29.91 | 31.60 | 46.00 | -14.40 | Horizontal |
| 459.11 | 40.70 | 17.59 | 3.13 | 29.38 | 32.04 | 46.00 | -13.96 | Horizontal |
| 699.31 | 38.56 | 20.80 | 4.08 | 29.20 | 34.24 | 46.00 | -11.76 | Horizontal |



■ Above 1GHz

ANT1+ANT2:

| Test mode: | | 802.11b | | 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 | 40.55 | 31.79 | 8.62 | 32.10 | 48.86 | 74.00 | -25.14 | Vertical |
| 7236.00 | 34.38 | 36.19 | 11.68 | 31.97 | 50.28 | 74.00 | -23.72 | Vertical |
| 9648.00 | 32.83 | 38.07 | 14.16 | 31.56 | 53.50 | 74.00 | -20.50 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 39.18 | 31.79 | 8.62 | 32.10 | 47.49 | 74.00 | -26.51 | Horizontal |
| 7236.00 | 34.11 | 36.19 | 11.68 | 31.97 | 50.01 | 74.00 | -23.99 | Horizontal |
| 9648.00 | 32.40 | 38.07 | 14.16 | 31.56 | 53.07 | 74.00 | -20.93 | Horizontal |
| 12060.00 | * | | | | | 74.00 | | Horizontal |
| 14472.00 | * | | | | | 74.00 | | Horizontal |
| 16884.00 | * | | | | | 74.00 | | Horizontal |
| Average val | | | | | | | Г | T |
| 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 | 29.62 | 31.79 | 8.62 | 32.10 | 37.93 | 54.00 | -16.07 | Vertical |
| 7236.00 | 23.24 | 36.19 | 11.68 | 31.97 | 39.14 | 54.00 | -14.86 | Vertical |
| 9648.00 | 23.17 | 38.07 | 14.16 | 31.56 | 43.84 | 54.00 | -10.16 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4824.00 | 28.71 | 31.79 | 8.62 | 32.10 | 37.02 | 54.00 | -16.98 | Horizontal |
| 7236.00 | 22.69 | 36.19 | 11.68 | 31.97 | 38.59 | 54.00 | -15.41 | Horizontal |
| 9648.00 | 22.14 | 38.07 | 14.16 | 31.56 | 42.81 | 54.00 | -11.19 | Horizontal |
| 12060.00 | * | | | | | 54.00 | | Horizontal |
| 14472.00 | * | | | | | 54.00 | | Horizontal |

Remark:

16884.00

Project No.: GTSE150701418RF

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 | 39.57 | 31.85 | 8.66 | 32.12 | 47.96 | 74.00 | -26.04 | Vertical |
| 7311.00 | 34.43 | 36.37 | 11.71 | 31.91 | 50.60 | 74.00 | -23.40 | Vertical |
| 9748.00 | 33.83 | 38.27 | 14.25 | 31.56 | 54.79 | 74.00 | -19.21 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 40.01 | 31.85 | 8.66 | 32.12 | 48.40 | 74.00 | -25.60 | Horizontal |
| 7311.00 | 33.05 | 36.37 | 11.71 | 31.91 | 49.22 | 74.00 | -24.78 | Horizontal |
| 9748.00 | 33.71 | 38.27 | 14.25 | 31.56 | 54.67 | 74.00 | -19.33 | 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 | 30.40 | 31.85 | 8.66 | 32.12 | 38.79 | 54.00 | -15.21 | Vertical |
| 7311.00 | 22.74 | 36.37 | 11.71 | 31.91 | 38.91 | 54.00 | -15.09 | Vertical |
| 9748.00 | 23.08 | 38.27 | 14.25 | 31.56 | 44.04 | 54.00 | -9.96 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 30.11 | 31.85 | 8.66 | 32.12 | 38.50 | 54.00 | -15.50 | Horizontal |
| 7311.00 | 22.13 | 36.37 | 11.71 | 31.91 | 38.30 | 54.00 | -15.70 | Horizontal |
| 9748.00 | 23.42 | 38.27 | 14.25 | 31.56 | 44.38 | 54.00 | -9.62 | 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. "*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11b | | Test | channel: | High | | |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 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 | 45.25 | 31.90 | 8.70 | 32.15 | 53.70 | 74.00 | -20.30 | Vertical |
| 7386.00 | 35.20 | 36.49 | 11.76 | 31.83 | 51.62 | 74.00 | -22.38 | Vertical |
| 9848.00 | 37.20 | 38.62 | 14.31 | 31.77 | 58.36 | 74.00 | -15.64 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 44.50 | 31.90 | 8.70 | 32.15 | 52.95 | 74.00 | -21.05 | Horizontal |
| 7386.00 | 34.07 | 36.49 | 11.76 | 31.83 | 50.49 | 74.00 | -23.51 | Horizontal |
| 9848.00 | 33.35 | 38.62 | 14.31 | 31.77 | 54.51 | 74.00 | -19.49 | 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 | 36.14 | 31.90 | 8.70 | 32.15 | 44.59 | 54.00 | -9.41 | Vertical |
| 7386.00 | 25.11 | 36.49 | 11.76 | 31.83 | 41.53 | 54.00 | -12.47 | Vertical |
| 9848.00 | 23.69 | 38.62 | 14.31 | 31.77 | 44.85 | 54.00 | -9.15 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 34.84 | 31.90 | 8.70 | 32.15 | 43.29 | 54.00 | -10.71 | Horizontal |
| 7386.00 | 23.45 | 36.49 | 11.76 | 31.83 | 39.87 | 54.00 | -14.13 | Horizontal |
| 9848.00 | 22.61 | 38.62 | 14.31 | 31.77 | 43.77 | 54.00 | -10.23 | 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. "*", 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 | 39.15 | 31.79 | 8.62 | 32.10 | 47.46 | 74.00 | -26.54 | Vertical |
| 7236.00 | 33.50 | 36.19 | 11.68 | 31.97 | 49.40 | 74.00 | -24.60 | Vertical |
| 9648.00 | 32.20 | 38.07 | 14.16 | 31.56 | 52.87 | 74.00 | -21.13 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 38.00 | 31.79 | 8.62 | 32.10 | 46.31 | 74.00 | -27.69 | Horizontal |
| 7236.00 | 33.34 | 36.19 | 11.68 | 31.97 | 49.24 | 74.00 | -24.76 | Horizontal |
| 9648.00 | 31.82 | 38.07 | 14.16 | 31.56 | 52.49 | 74.00 | -21.51 | 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 | 28.33 | 31.79 | 8.62 | 32.10 | 36.64 | 54.00 | -17.36 | Vertical |
| 7236.00 | 22.39 | 36.19 | 11.68 | 31.97 | 38.29 | 54.00 | -15.71 | Vertical |
| 9648.00 | 22.57 | 38.07 | 14.16 | 31.56 | 43.24 | 54.00 | -10.76 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertica |
| 4824.00 | 27.60 | 31.79 | 8.62 | 32.10 | 35.91 | 54.00 | -18.09 | Horizontal |
| 7236.00 | 21.94 | 36.19 | 11.68 | 31.97 | 37.84 | 54.00 | -16.16 | Horizontal |
| 9648.00 | 21.58 | 38.07 | 14.16 | 31.56 | 42.25 | 54.00 | -11.75 | 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: | | 802.11g | | 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 | 38.41 | 31.85 | 8.66 | 32.12 | 46.80 | 74.00 | -27.20 | Vertical |
| 7311.00 | 33.69 | 36.37 | 11.71 | 31.91 | 49.86 | 74.00 | -24.14 | Vertical |
| 9748.00 | 33.31 | 38.27 | 14.25 | 31.56 | 54.27 | 74.00 | -19.73 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 39.03 | 31.85 | 8.66 | 32.12 | 47.42 | 74.00 | -26.58 | Horizontal |
| 7311.00 | 32.41 | 36.37 | 11.71 | 31.91 | 48.58 | 74.00 | -25.42 | Horizontal |
| 9748.00 | 33.23 | 38.27 | 14.25 | 31.56 | 54.19 | 74.00 | -19.81 | 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) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
| 4874.00 | 29.33 | 31.85 | 8.66 | 32.12 | 37.72 | 54.00 | -16.28 | Vertical |
| 7311.00 | 22.03 | 36.37 | 11.71 | 31.91 | 38.20 | 54.00 | -15.80 | Vertical |
| 9748.00 | 22.58 | 38.27 | 14.25 | 31.56 | 43.54 | 54.00 | -10.46 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 29.19 | 31.85 | 8.66 | 32.12 | 37.58 | 54.00 | -16.42 | Horizontal |
| 7311.00 | 21.51 | 36.37 | 11.71 | 31.91 | 37.68 | 54.00 | -16.32 | Horizontal |
| 9748.00 | 22.96 | 38.27 | 14.25 | 31.56 | 43.92 | 54.00 | -10.08 | 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. "*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11g | | Test | channel: | High | 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 |
| 4924.00 | 43.25 | 31.90 | 8.70 | 32.15 | 51.70 | 74.00 | -22.30 | Vertical |
| 7386.00 | 33.94 | 36.49 | 11.76 | 31.83 | 50.36 | 74.00 | -23.64 | Vertical |
| 9848.00 | 36.29 | 38.62 | 14.31 | 31.77 | 57.45 | 74.00 | -16.55 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 42.81 | 31.90 | 8.70 | 32.15 | 51.26 | 74.00 | -22.74 | Horizontal |
| 7386.00 | 32.97 | 36.49 | 11.76 | 31.83 | 49.39 | 74.00 | -24.61 | Horizontal |
| 9848.00 | 32.52 | 38.62 | 14.31 | 31.77 | 53.68 | 74.00 | -20.32 | 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 | 34.30 | 31.90 | 8.70 | 32.15 | 42.75 | 54.00 | -11.25 | Vertical |
| 7386.00 | 23.89 | 36.49 | 11.76 | 31.83 | 40.31 | 54.00 | -13.69 | Vertical |
| 9848.00 | 22.82 | 38.62 | 14.31 | 31.77 | 43.98 | 54.00 | -10.02 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 33.26 | 31.90 | 8.70 | 32.15 | 41.71 | 54.00 | -12.29 | Horizontal |
| 7386.00 | 22.38 | 36.49 | 11.76 | 31.83 | 38.80 | 54.00 | -15.20 | Horizontal |
| 9848.00 | 21.80 | 38.62 | 14.31 | 31.77 | 42.96 | 54.00 | -11.04 | 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. "*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11n(H | IT20) | 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 |
| 4824.00 | 38.68 | 31.79 | 8.62 | 32.10 | 46.99 | 74.00 | -27.01 | Vertical |
| 7236.00 | 33.20 | 36.19 | 11.68 | 31.97 | 49.10 | 74.00 | -24.90 | Vertical |
| 9648.00 | 31.99 | 38.07 | 14.16 | 31.56 | 52.66 | 74.00 | -21.34 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 37.60 | 31.79 | 8.62 | 32.10 | 45.91 | 74.00 | -28.09 | Horizontal |
| 7236.00 | 33.08 | 36.19 | 11.68 | 31.97 | 48.98 | 74.00 | -25.02 | Horizontal |
| 9648.00 | 31.62 | 38.07 | 14.16 | 31.56 | 52.29 | 74.00 | -21.71 | 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 | 27.89 | 31.79 | 8.62 | 32.10 | 36.20 | 54.00 | -17.80 | Vertical |
| 7236.00 | 22.10 | 36.19 | 11.68 | 31.97 | 38.00 | 54.00 | -16.00 | Vertical |
| 9648.00 | 22.36 | 38.07 | 14.16 | 31.56 | 43.03 | 54.00 | -10.97 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4824.00 | 27.22 | 31.79 | 8.62 | 32.10 | 35.53 | 54.00 | -18.47 | Horizontal |
| 7236.00 | 21.69 | 36.19 | 11.68 | 31.97 | 37.59 | 54.00 | -16.41 | Horizontal |
| 9648.00 | 21.39 | 38.07 | 14.16 | 31.56 | 42.06 | 54.00 | -11.94 | 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 | 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 | 38.02 | 31.85 | 8.66 | 32.12 | 46.41 | 74.00 | -27.59 | Vertical |
| 7311.00 | 33.45 | 36.37 | 11.71 | 31.91 | 49.62 | 74.00 | -24.38 | Vertical |
| 9748.00 | 33.13 | 38.27 | 14.25 | 31.56 | 54.09 | 74.00 | -19.91 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 38.70 | 31.85 | 8.66 | 32.12 | 47.09 | 74.00 | -26.91 | Horizontal |
| 7311.00 | 32.19 | 36.37 | 11.71 | 31.91 | 48.36 | 74.00 | -25.64 | Horizontal |
| 9748.00 | 33.07 | 38.27 | 14.25 | 31.56 | 54.03 | 74.00 | -19.97 | 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 | 28.97 | 31.85 | 8.66 | 32.12 | 37.36 | 54.00 | -16.64 | Vertical |
| 7311.00 | 21.79 | 36.37 | 11.71 | 31.91 | 37.96 | 54.00 | -16.04 | Vertical |
| 9748.00 | 22.41 | 38.27 | 14.25 | 31.56 | 43.37 | 54.00 | -10.63 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 28.88 | 31.85 | 8.66 | 32.12 | 37.27 | 54.00 | -16.73 | Horizontal |
| 7311.00 | 21.30 | 36.37 | 11.71 | 31.91 | 37.47 | 54.00 | -16.53 | Horizontal |
| 9748.00 | 22.80 | 38.27 | 14.25 | 31.56 | 43.76 | 54.00 | -10.24 | 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. "*", means this data is the too weak instrument of signal is unable to test.



| Test mode: | | 802.11n(H | IT20) | 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 | 42.58 | 31.90 | 8.70 | 32.15 | 51.03 | 74.00 | -22.97 | Vertical |
| 7386.00 | 33.51 | 36.49 | 11.76 | 31.83 | 49.93 | 74.00 | -24.07 | Vertical |
| 9848.00 | 35.99 | 38.62 | 14.31 | 31.77 | 57.15 | 74.00 | -16.85 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 42.24 | 31.90 | 8.70 | 32.15 | 50.69 | 74.00 | -23.31 | Horizontal |
| 7386.00 | 32.59 | 36.49 | 11.76 | 31.83 | 49.01 | 74.00 | -24.99 | Horizontal |
| 9848.00 | 32.24 | 38.62 | 14.31 | 31.77 | 53.40 | 74.00 | -20.60 | 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 | 33.68 | 31.90 | 8.70 | 32.15 | 42.13 | 54.00 | -11.87 | Vertical |
| 7386.00 | 23.48 | 36.49 | 11.76 | 31.83 | 39.90 | 54.00 | -14.10 | Vertical |
| 9848.00 | 22.53 | 38.62 | 14.31 | 31.77 | 43.69 | 54.00 | -10.31 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 32.73 | 31.90 | 8.70 | 32.15 | 41.18 | 54.00 | -12.82 | Horizontal |
| 7386.00 | 22.02 | 36.49 | 11.76 | 31.83 | 38.44 | 54.00 | -15.56 | Horizontal |
| 9848.00 | 21.53 | 38.62 | 14.31 | 31.77 | 42.69 | 54.00 | -11.31 | 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 | IT40) | | Test | channel: | | Lowe | st | |
|--------------------|-------------------------|-----------------------------|-----------------------|----|--------------------|-------------------|----------------|------|-----------------------|--------------|
| Peak value: | | ' | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Fa | amp ctor IB) | Level (dBuV/m) | Limit (dBu\ | | Over Limit (dB) | polarization |
| 4844.00 | 38.20 | 31.81 | 8.63 | 32 | .11 | 46.53 | 74. | 00 | -27.47 | Vertical |
| 7266.00 | 32.90 | 36.28 | 11.69 | 31 | .94 | 48.93 | 74. | 00 | -25.07 | Vertical |
| 9688.00 | 31.77 | 38.13 | 14.21 | 31 | .52 | 52.59 | 74. | 00 | -21.41 | Vertical |
| 12060.00 | * | | | | | | 74. | 00 | | Vertical |
| 14472.00 | * | | | | | | 74. | 00 | | Vertical |
| 16884.00 | * | | | | | | 74. | 00 | | Vertical |
| 4844.00 | 37.20 | 31.81 | 8.63 | 32 | .11 | 45.53 | 74. | 00 | -28.47 | Horizontal |
| 7266.00 | 32.81 | 36.28 | 11.69 | 31 | .94 | 48.84 | 74. | 00 | -25.16 | Horizontal |
| 9688.00 | 31.42 | 38.13 | 14.21 | 31 | .52 | 52.24 | 74. | 00 | -21.76 | Horizontal |
| 12060.00 | * | | | | | | 74. | 00 | | Horizontal |
| 14472.00 | * | | | | | | 74. | 00 | | Horizontal |
| 16884.00 | * | | | | | | 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 |
|--------------------|-------------------------|-----------------------------|-----------------------|--------------------------|-------------------|------------------------|-----------------------|--------------|
| 4844.00 | 27.45 | 31.81 | 8.63 | 32.11 | 35.78 | 54.00 | -18.22 | Vertical |
| 7266.00 | 21.81 | 36.28 | 11.69 | 31.94 | 37.84 | 54.00 | -16.16 | Vertical |
| 9688.00 | 22.15 | 38.13 | 14.21 | 31.52 | 42.97 | 54.00 | -11.03 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4844.00 | 26.84 | 31.81 | 8.63 | 32.11 | 35.17 | 54.00 | -18.83 | Horizontal |
| 7266.00 | 21.43 | 36.28 | 11.69 | 31.94 | 37.46 | 54.00 | -16.54 | Horizontal |
| 9688.00 | 21.20 | 38.13 | 14.21 | 31.52 | 42.02 | 54.00 | -11.98 | 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) | Fa | amp ctor IB) | Level (dBuV/m) | Limit l (dBuV | | Over Limit (dB) | polarization |
| 4874.00 | 37.62 | 31.85 | 8.66 | 32 | .12 | 46.01 | 74.0 | 00 | -27.99 | Vertical |
| 7311.00 | 33.20 | 36.37 | 11.71 | 31 | .91 | 49.37 | 74.0 | 00 | -24.63 | Vertical |
| 9748.00 | 32.95 | 38.27 | 14.25 | 31 | .56 | 53.91 | 74.0 | 00 | -20.09 | Vertical |
| 12185.00 | * | | | | | | 74.0 | 00 | | Vertical |
| 14622.00 | * | | | | | | 74.0 | 00 | | Vertical |
| 17059.00 | * | | | | | | 74.0 | 00 | | Vertical |
| 4874.00 | 38.37 | 31.85 | 8.66 | 32 | .12 | 46.76 | 74.0 | 00 | -27.24 | Horizontal |
| 7311.00 | 31.97 | 36.37 | 11.71 | 31 | .91 | 48.14 | 74.0 | 00 | -25.86 | Horizontal |
| 9748.00 | 32.90 | 38.27 | 14.25 | 31 | .56 | 53.86 | 74.0 | 00 | -20.14 | Horizontal |
| 12185.00 | * | | | | | | 74.0 | 00 | | Horizontal |
| 14622.00 | * | | | | | | 74.0 | 00 | | Horizontal |
| 17059.00 | * | | | | | | 74.0 | 00 | | Horizontal |
| Average val | ue: | | • | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Fa | amp ctor IB) | Level (dBuV/m) | Limit l (dBuV | | Over Limit (dB) | polarization |
| 4874.00 | 28.61 | 31.85 | 8.66 | 32 | .12 | 37.00 | 54.0 | 00 | -17.00 | Vertical |
| 7311.00 | 21.55 | 36.37 | 11.71 | 31 | .91 | 37.72 | 54.0 | 00 | -16.28 | Vertical |
| 9748.00 | 22.24 | 38.27 | 14.25 | 31 | .56 | 43.20 | 54.0 | 00 | -10.80 | Vertical |
| 12185.00 | * | | | | | | 54.0 | 00 | | Vertical |
| 14622.00 | * | | | | | | 54.0 | 00 | | Vertical |
| 17059.00 | * | | | | | | 54.0 | 00 | | Vertical |
| 4874.00 | 28.57 | 31.85 | 8.66 | 32 | .12 | 36.96 | 54.0 | 00 | -17.04 | Horizontal |
| 7311.00 | 21.09 | 36.37 | 11.71 | 31 | .91 | 37.26 | 54.0 | 00 | -16.74 | Horizontal |
| 9748.00 | 22.64 | 38.27 | 14.25 | 31 | .56 | 43.60 | 54.0 | 00 | -10.40 | Horizontal |
| 12185.00 | * | | | | | | 54.0 | 00 | | Horizontal |
| 14622.00 | * | | | | | | 54.0 | 00 | | Horizontal |
| 17059.00 | * | | | | | | 54.0 | 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 | IT40) | 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 |
| 4904.00 | 41.90 | 31.88 | 8.68 | 32.13 | 50.33 | 74.00 | -23.67 | Vertical |
| 7356.00 | 33.08 | 36.45 | 11.75 | 31.86 | 49.42 | 74.00 | -24.58 | Vertical |
| 9808.00 | 35.68 | 38.43 | 14.29 | 31.68 | 56.72 | 74.00 | -17.28 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4904.00 | 41.67 | 31.88 | 8.68 | 32.13 | 50.10 | 74.00 | -23.90 | Horizontal |
| 7356.00 | 32.22 | 36.45 | 11.75 | 31.86 | 48.56 | 74.00 | -25.44 | Horizontal |
| 9808.00 | 31.96 | 38.43 | 14.29 | 31.68 | 53.00 | 74.00 | -21.00 | 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 |
| 4904.00 | 33.05 | 31.88 | 8.68 | 32.13 | 41.48 | 54.00 | -12.52 | Vertical |
| 7356.00 | 23.06 | 36.45 | 11.75 | 31.86 | 39.40 | 54.00 | -14.60 | Vertical |
| 9808.00 | 22.24 | 38.43 | 14.29 | 31.68 | 43.28 | 54.00 | -10.72 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4904.00 | 32.19 | 31.88 | 8.68 | 32.13 | 40.62 | 54.00 | -13.38 | Horizontal |
| 7356.00 | 21.66 | 36.45 | 11.75 | 31.86 | 38.00 | 54.00 | -16.00 | Horizontal |
| 9808.00 | 21.26 | 38.43 | 14.29 | 31.68 | 42.30 | 54.00 | -11.70 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 54.00 | | Horizontal |

Remark:

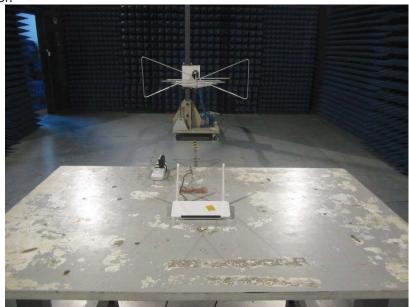
¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

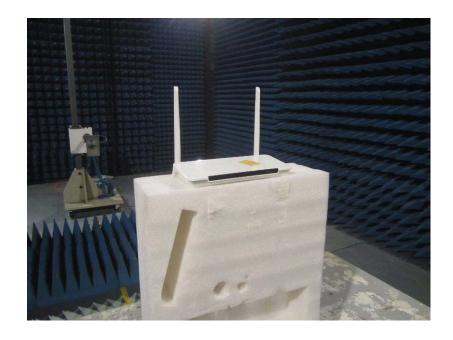
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







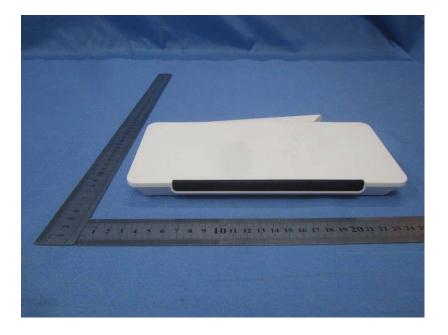
Conducted Emission





9 EUT Constructional Details



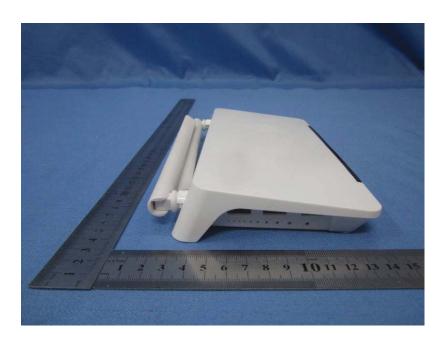














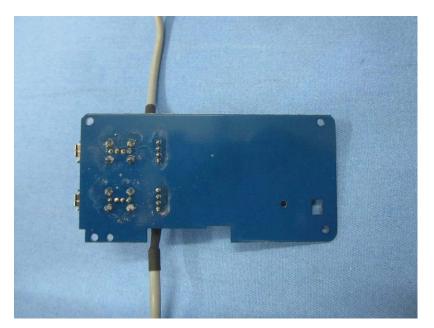






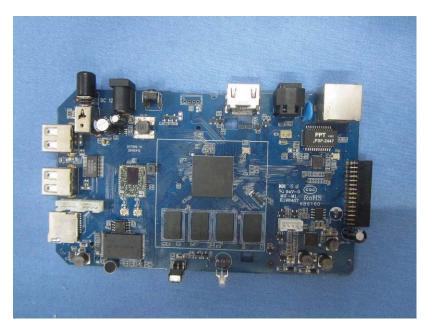
























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