



Shenzhen EBO Technology Co., Ltd.

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Report No.: FCC13-RTE041801
Page 1 of 64

FCC REPORT

Applicant: Lexibook America

Address of Applicant: C/O NATXIS PRAMEX INTERNATIONAL -NORTH AMERICA
1251 avenue of the Americas 34th floor

Equipment Under Test (EUT)

Product Name: Tablet

Model No.: MFC410EN

Trade mark: Lexibook

FCC ID: UU8-MFC05

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2012

Date of sample receipt: April 08, 2013

Date of Test: April 08-18, 2013

Date of report issued: April 18, 2013

Test Result : PASS *

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

Authorized Signature:

Kevin Yu
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 EBO product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of EBO International Electrical Approvals or testing done by EBO International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by EBO International Electrical Approvals in writing.

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2 Version

| Version No. | Date | Description |
|-------------|----------------|-------------|
| 00 | April 18, 2013 | Original |
| | | |
| | | |
| | | |
| | | |

Prepared By:

Date:

April 18, 2013

Project Engineer

Check By:

Date:

April 18, 2013

Reviewer

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4 Test Summary

| Test Item | Section in CFR 47 | Result |
|----------------------------------|-------------------|--------|
| Antenna requirement | 15.203/15.247 (c) | Pass |
| AC Power Line Conducted Emission | 15.207 | Pass |
| Conducted Peak Output Power | 15.247 (b)(3) | Pass |
| Channel Bandwidth | 15.247 (a)(2) | Pass |
| Power Spectral Density | 15.247 (e) | Pass |
| Band Edge | 15.247(d) | Pass |
| Spurious Emission | 15.205/15.209 | Pass |

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



5 General Information

5.1 Client Information

| | |
|--------------------------|---|
| Applicant: | Lexibook America |
| Address of Applicant: | C/O NATXIS PRAMEX INTERNATIONAL -NORTH AMERICA 1251 avenue of the Americas 34th floor |
| Manufacturer: | Lexibook America |
| Address of Manufacturer: | C/O NATXIS PRAMEX INTERNATIONAL -NORTH AMERICA 1251 avenue of the Americas 34th floor |

5.2 General Description of EUT

| | |
|--|--|
| Product Name: | Tablet |
| Model No.: | MFC410EN |
| Operation Frequency: | 2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40)) |
| Channel numbers: | 11 for 802.11b/802.11g /802.11n(H20) 7 for 802.11(H40) |
| Channel separation: | 5MHz |
| Modulation technology: (IEEE 802.11b) | Direct Sequence Spread Spectrum (DSSS) |
| Modulation technology: (IEEE 802.11g/802.11n) | Orthogonal Frequency Division Multiplexing(OFDM) |
| Antenna Type: | Integral |
| Antenna gain: | 2dBi (declare by Applicant) |
| Power supply: | Model No.:SJ-0520-U Input: AC 100~240V~50/60Hz 0.5A Output: 5.0V, 2.0A DC 3.7V Li-ion Battery |



| 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:

802.11b/802.11g/ 802.11n(H20)

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

802.11n(H40)

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



5.3 Test mode

| | |
|--|------------------------------------|
| Transmitting mode | Keep the EUT in transmitting mode. |
| <i>Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i> | |

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

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

| Mode | Data rate |
|--------------|-----------|
| 802.11b | 1Mbps |
| 802.11g | 6Mbps |
| 802.11n(H20) | 6.5Mbps |
| 802.11n(H40) | 13.0Mbps |

Final Test Mode:

According to ANSI C63.4 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20), 13Mbps for 802.11n(H40)

5.4 Test Facility

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

- **CNAS —Registration No.: CNAS L5775**

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

- **FCC —Registration No.: 600491**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission.

The acceptance letter from the FCC is maintained in our files. Registration 600491, July 20, 2010.

- **Industry Canada (IC)**

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-1.

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

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

Tel: 0755-27798480

Fax: 0755-27798960

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5.6 Other Information Requested by the Customer

None.

5.7 Description of Support Units

None.

5.8 Test Instruments list

| Radiated Emission: | | | | | | |
|--------------------|-------------------------------|--------------------------------|-----------------------------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | 3m Semi- Anechoic Chamber | ZhongYu Electron | 9.2(L)*6.2(W)* 6.4(H) | GTS250 | Mar. 29 2013 | Mar. 28 2015 |
| 2 | Control Room | ZhongYu Electron | 6.2(L)*2.5(W)* 2.4(H) | GTS251 | N/A | N/A |
| 3 | Spectrum Analyzer | Agilent | E4440A | GTS533 | Dec. 6, 2012 | Dec. 5, 2013 |
| 4 | EMI Test Receiver | Rohde & Schwarz | ESU26 | GTS203 | Jul. 03 2012 | Jul. 02 2013 |
| 5 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | GTS214 | Feb. 24 2013 | Feb. 23 2014 |
| 6 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | 9120D-829 | GTS208 | Mar. 09 2013 | Mar. 08 2014 |
| 7 | Horn Antenna | ETS-LINDGREN | 3160 | GTS217 | Mar. 29 2013 | Mar. 28 2014 |
| 8 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 9 | Coaxial Cable | GTS | N/A | GTS213 | Mar. 30 2013 | Mar. 29 2014 |
| 10 | Coaxial Cable | GTS | N/A | GTS211 | Mar. 30 2013 | Mar. 29 2014 |
| 11 | Coaxial cable | GTS | N/A | GTS210 | Mar. 30 2013 | Mar. 29 2014 |
| 12 | Coaxial Cable | GTS | N/A | GTS212 | Mar. 30 2013 | Mar. 29 2014 |
| 13 | Amplifier(100kHz-3GHz) | HP | 8347A | GTS204 | Jul. 03 2012 | Jul. 02 2013 |
| 14 | Amplifier(2GHz-20GHz) | HP | 8349B | GTS206 | Jul. 03 2012 | Jul. 02 2013 |
| 15 | Amplifier (18-26GHz) | Rohde & Schwarz | AFS33-18002 650-30-8P-44 | GTS218 | June 29 2012 | June 28 2013 |
| 16 | Band filter | Amindeon | 82346 | GTS219 | Mar. 30 2013 | Mar. 29 2014 |



Shenzhen EBO Technology Co., Ltd.

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| Conducted Emission: | | | | | | |
|---------------------|-------------------|--------------------------------|----------------------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | Shielding Room | ZhongYu Electron | 7.0(L)x3.0(W)x3.0(H) | GTS264 | Sep. 08 2011 | Sep. 07 2013 |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESCS30 | GTS223 | Jul. 03 2012 | Jul. 02 2013 |
| 3 | 10dB Pulse Limita | Rohde & Schwarz | N/A | GTS224 | Jul. 03 2012 | Jul. 02 2013 |
| 4 | Coaxial Switch | ANRITSU CORP | MP59B | GTS225 | Jul. 03 2012 | Jul. 02 2013 |
| 5 | LISN | SCHWARZBECK MESS-ELEKTRONIK | NSLK 8127 | GTS226 | Jul. 03 2012 | Jul. 02 2013 |
| 6 | Coaxial Cable | GTS | N/A | GTS227 | Jul. 03 2012 | Jul. 02 2013 |
| 7 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |

| General used equipment: | | | | | | |
|-------------------------|----------------|--------------|-----------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (dd-mm-yy) | Cal.Due date (dd-mm-yy) |
| 1 | Barometer | ChangChun | DYM3 | GTS257 | July 10 2012 | July 09 2013 |

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6 Test results and Measurement Data

6.1 Antenna requirement:

| | |
|---|-------------------------------------|
| Standard requirement: | FCC Part15 C Section 15.203 /247(c) |
| 15.203 requirement: <p>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.</p> | |
| 15.247(c) (1)(i) requirement: <p>(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.</p> | |
| E.U.T Antenna: | |
| <i>The antenna is Integral antenna, the best case gain of the antenna is 2dBi</i> | |



6.2 Conducted Emissions

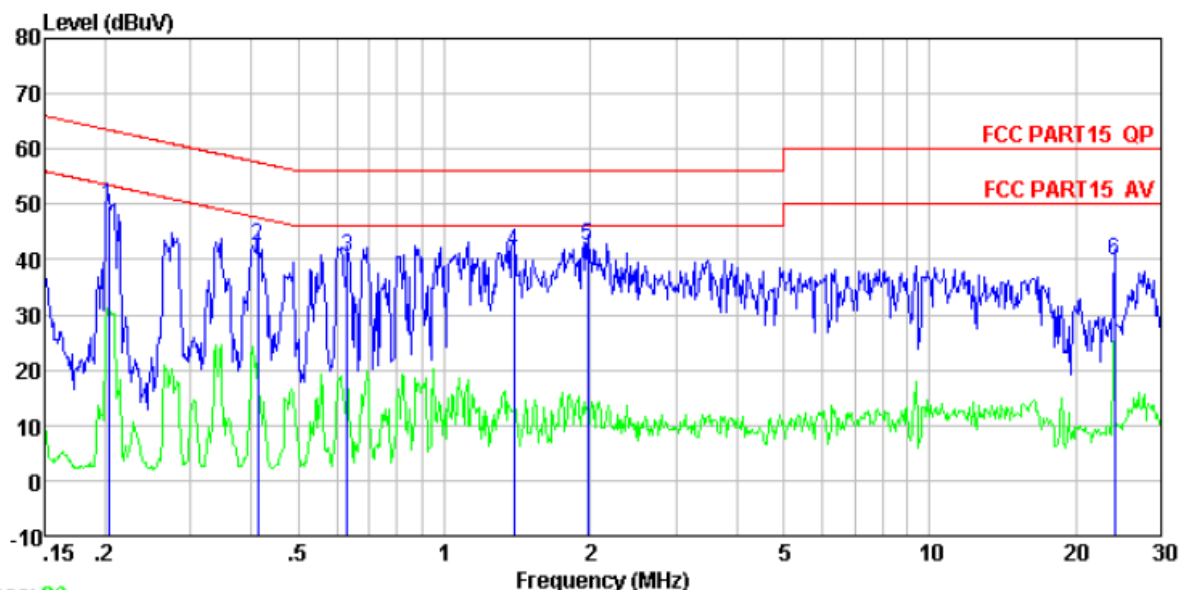
| Test Requirement: | FCC Part15 C Section 15.207 | | | | | | | | | | | | | | |
|-----------------------|--|-----------------------|--------------|--|------------|---------|----------|-----------|-----------|-------|----|----|------|----|----|
| Test Method: | ANSI C63.4:2003 | | | | | | | | | | | | | | |
| Test Frequency Range: | 150KHz to 30MHz | | | | | | | | | | | | | | |
| Class / Severity: | | | | | | | | | | | | | | | |
| Receiver setup: | RBW=9KHz, VBW=30KHz, Sweep time=auto | | | | | | | | | | | | | | |
| Limit: | <table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> <p>* Decreases with the logarithm of the frequency.</p> | Frequency range (MHz) | Limit (dBuV) | | Quasi-peak | Average | 0.15-0.5 | 66 to 56* | 56 to 46* | 0.5-5 | 56 | 46 | 5-30 | 60 | 50 |
| Frequency range (MHz) | Limit (dBuV) | | | | | | | | | | | | | | |
| | Quasi-peak | Average | | | | | | | | | | | | | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | | | | | | | | | | | | | |
| 0.5-5 | 56 | 46 | | | | | | | | | | | | | |
| 5-30 | 60 | 50 | | | | | | | | | | | | | |
| Test setup: | <div><p style="text-align: center;">Reference Plane</p><p style="text-align: center;">Test table/Insulation plane</p><p><i>Remark:</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p></div> | | | | | | | | | | | | | | |
| Test procedure: | <ol style="list-style-type: none">1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).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 C63.4: 2003 on conducted measurement. | | | | | | | | | | | | | | |
| Test Instruments: | Refer to section 5.8 for details | | | | | | | | | | | | | | |
| Test mode: | Refer to section 5.3 for details | | | | | | | | | | | | | | |
| Test results: | Pass | | | | | | | | | | | | | | |

Measurement data:

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Line:



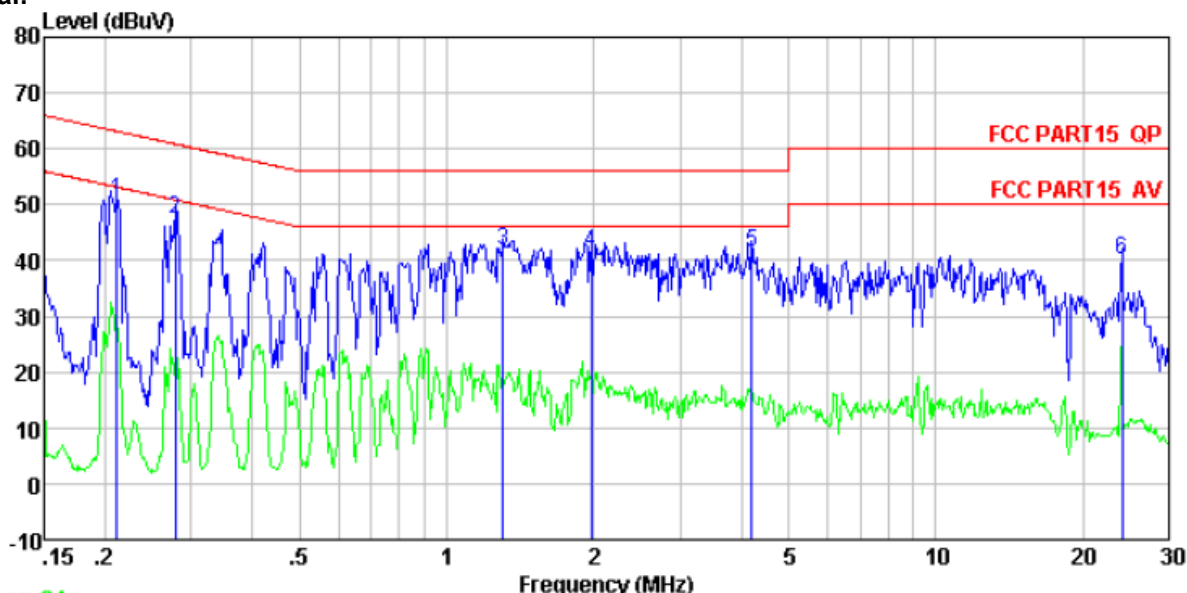
Trace: 96

Condition : FCC PART15 QP LISN-2012 LINE
Job No. : 347RF
Test mode : WiFi mode
Test Engineer: Jim

| | Read | LISN | Cable | | Limit | Over | |
|------|--------|--------|-------|-------|-------|-------|-----------|
| Freq | Level | Factor | Loss | Level | Line | Limit | Remark |
| MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.203 | 49.86 | -0.23 | 0.10 | 49.73 | 63.49 | -13.76 QP |
| 2 | 0.413 | 42.57 | -0.22 | 0.10 | 42.45 | 57.59 | -15.14 QP |
| 3 | 0.630 | 40.56 | -0.20 | 0.10 | 40.46 | 56.00 | -15.54 QP |
| 4 | 1.388 | 41.63 | -0.22 | 0.10 | 41.51 | 56.00 | -14.49 QP |
| 5 | 1.970 | 42.63 | -0.24 | 0.10 | 42.49 | 56.00 | -13.51 QP |
| 6 | 24.015 | 40.28 | -0.81 | 0.21 | 39.68 | 60.00 | -20.32 QP |



Neutral:



Trace: 94

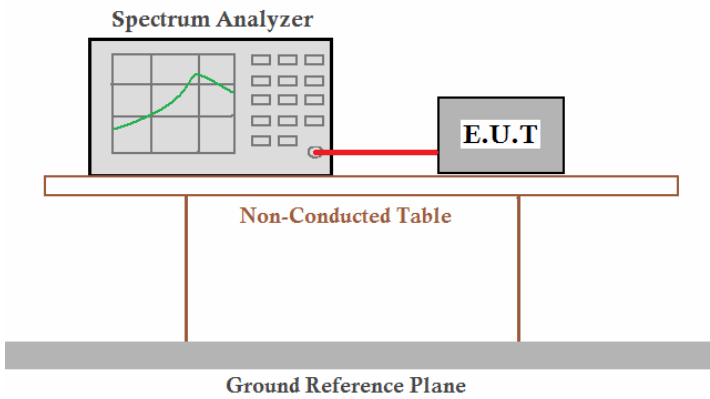
Condition : FCC PART15 QP LISN-2012 NEUTRAL
Job No. : 347RF
Test mode : WiFi mode
Test Engineer: Jim

| | Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|---|--------|------------|-------------|------------|-------|------------|------------|--------|
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.212 | 50.67 | -0.09 | 0.10 | 50.68 | 63.14 | -12.46 | QP |
| 2 | 0.279 | 47.46 | -0.09 | 0.10 | 47.47 | 60.85 | -13.38 | QP |
| 3 | 1.303 | 41.82 | -0.09 | 0.10 | 41.83 | 56.00 | -14.17 | QP |
| 4 | 1.970 | 41.56 | -0.11 | 0.10 | 41.55 | 56.00 | -14.45 | QP |
| 5 | 4.202 | 41.41 | -0.15 | 0.10 | 41.36 | 56.00 | -14.64 | QP |
| 6 | 24.015 | 40.60 | -0.72 | 0.21 | 40.09 | 60.00 | -19.91 | QP |

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

6.3 Conducted Peak Output Power

| | |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247 (b)(3) |
| Test Method: | ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V02 |
| Limit: | 30dBm |
| Test setup: |  |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Pass |

Measurement Data

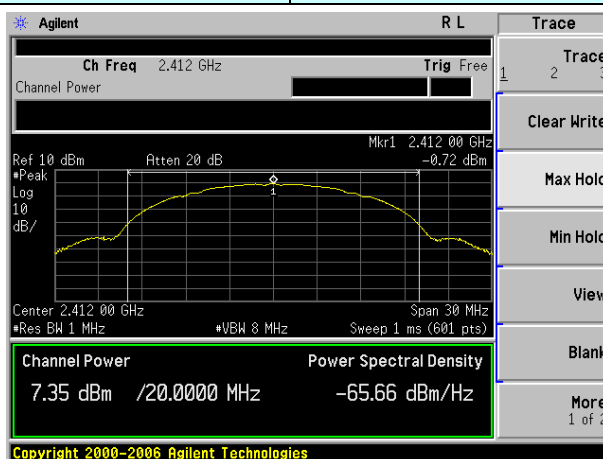
| Test CH | Peak Output Power (dBm) | | | | Limit(dBm) | Result |
|---------|-------------------------|---------|--------------|--------------|------------|--------|
| | 802.11b | 802.11g | 802.11n(H20) | 802.11n(H40) | | |
| Lowest | 7.35 | 6.92 | 6.95 | 7.23 | 30.00 | Pass |
| Middle | 7.15 | 6.34 | 6.14 | 6.89 | | |
| Highest | 7.22 | 6.55 | 5.94 | 6.38 | | |

Test plot as follows:

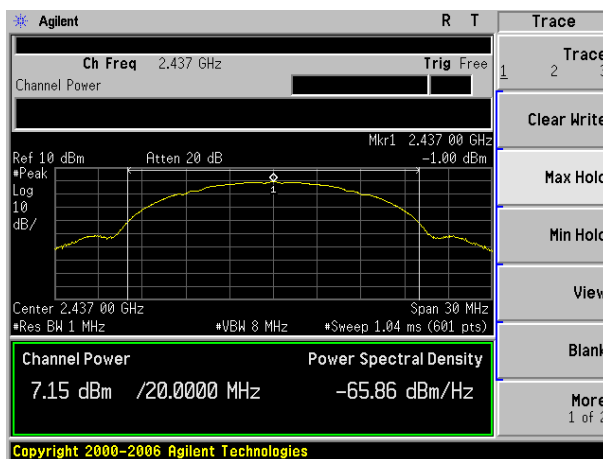
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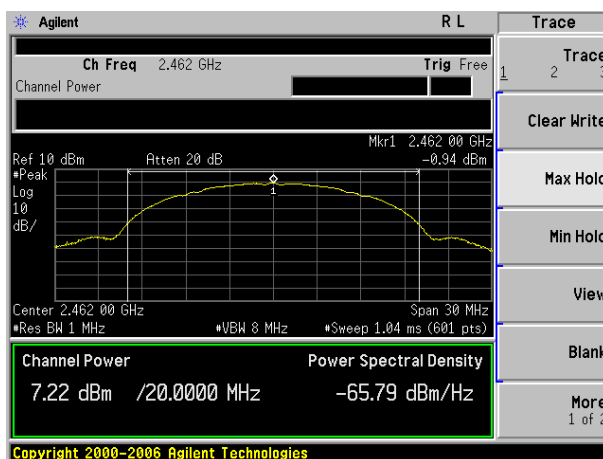
| | |
|------------|---------|
| Test mode: | 802.11b |
|------------|---------|



Lowest channel



Middle channel

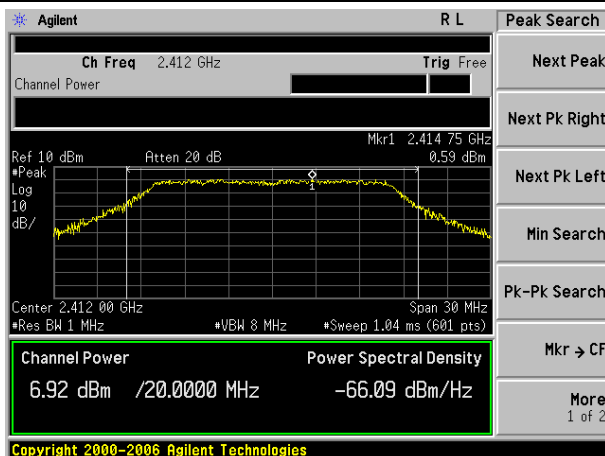


Highest channel

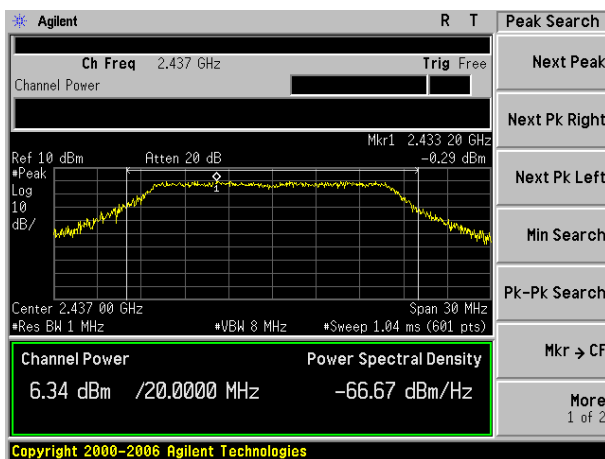
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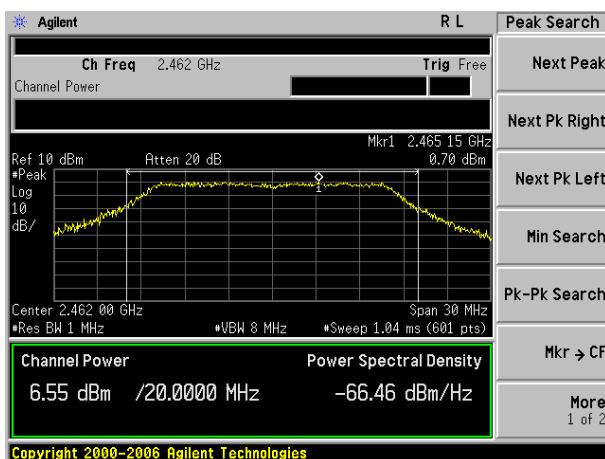
| | |
|------------|---------|
| Test mode: | 802.11g |
|------------|---------|



Lowest channel



Middle channel

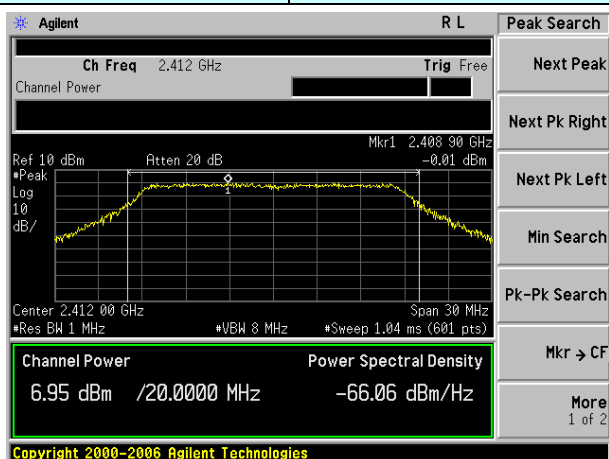


Highest channel

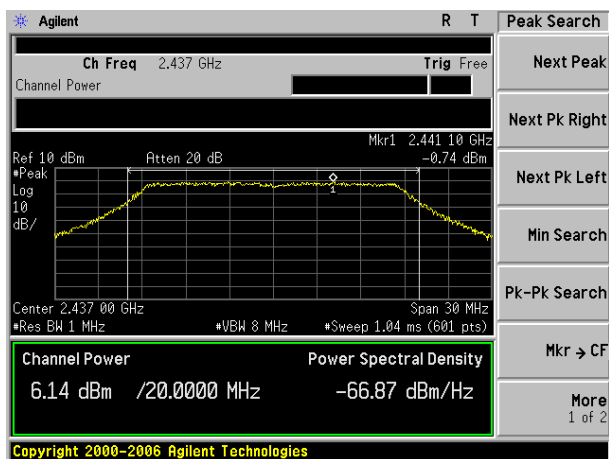
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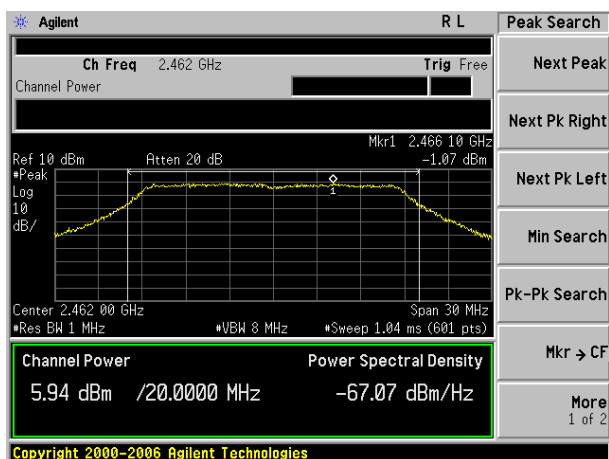
| | |
|------------|---------------|
| Test mode: | 802.11n(HT20) |
|------------|---------------|



Lowest channel



Middle channel

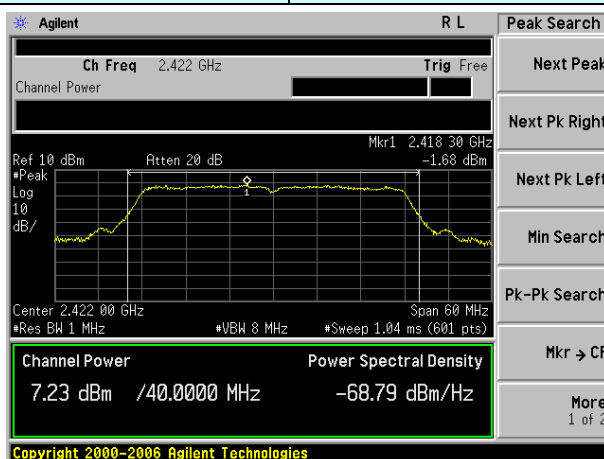


Highest channel

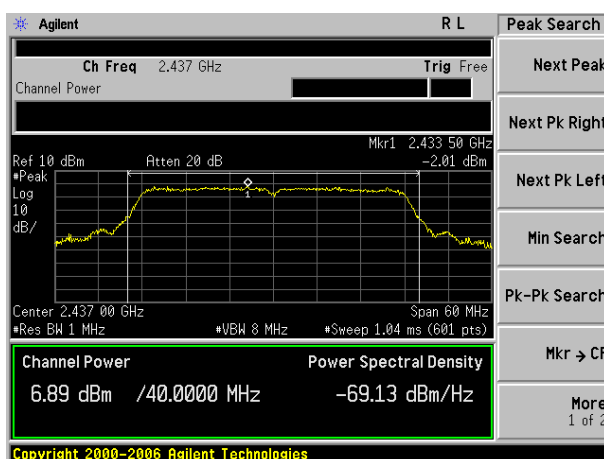
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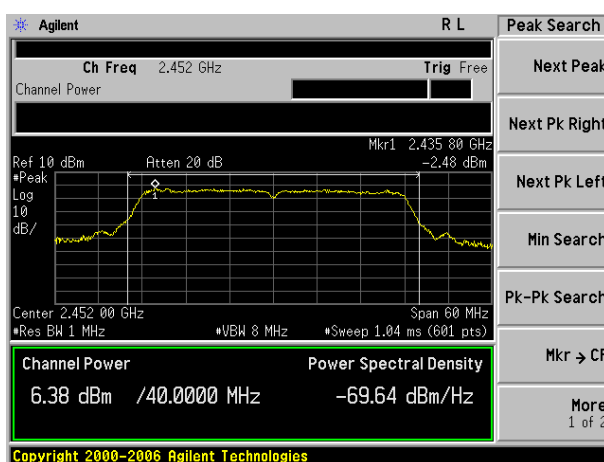
| | |
|------------|---------------|
| Test mode: | 802.11n(HT40) |
|------------|---------------|



Lowest channel



Middle channel

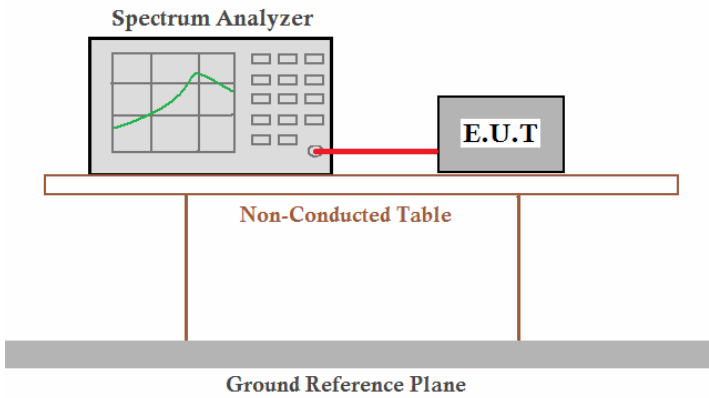


Highest channel

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6.4 Channel Bandwidth

| | |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(2) |
| Test Method: | ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V02 |
| Limit: | >500KHz |
| Test setup: |  |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Pass |

Measurement Data

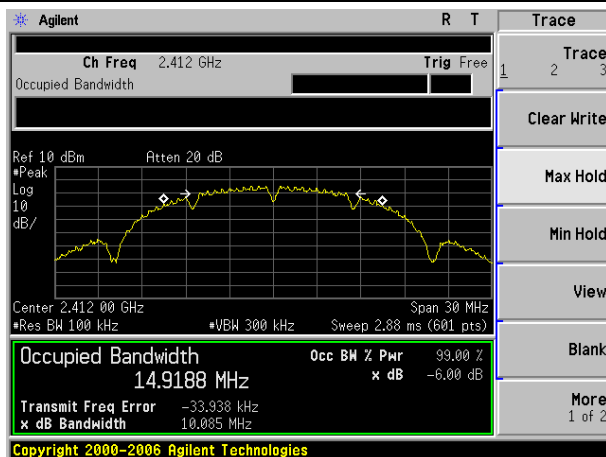
| Test CH | Emission Bandwidth (MHz) | | | | Limit(KHz) | Result |
|---------|--------------------------|---------|--------------|--------------|------------|--------|
| | 802.11b | 802.11g | 802.11n(H20) | 802.11n(H40) | | |
| Lowest | 10.085 | 16.580 | 17.848 | 36.475 | >500 | Pass |
| Middle | 10.088 | 16.587 | 17.841 | 36.481 | | |
| Highest | 10.113 | 16.581 | 17.832 | 36.493 | | |

Test plot as follows:

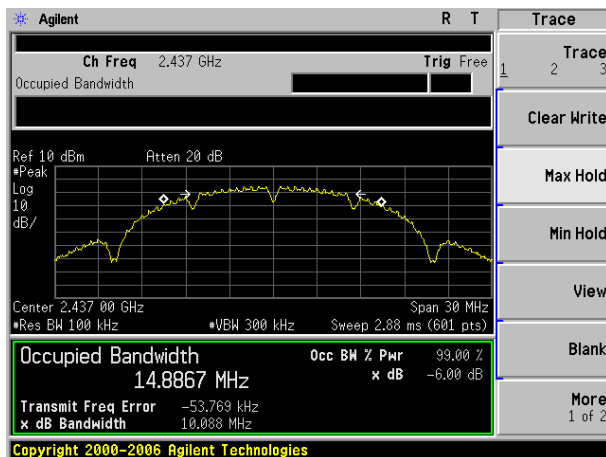
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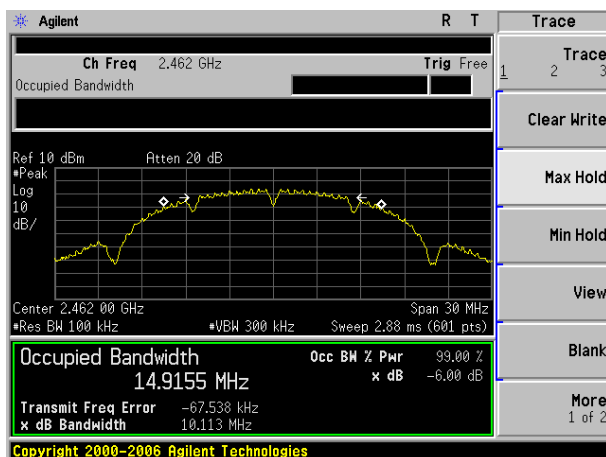
| | |
|------------|---------|
| Test mode: | 802.11b |
|------------|---------|



Lowest channel



Middle channel

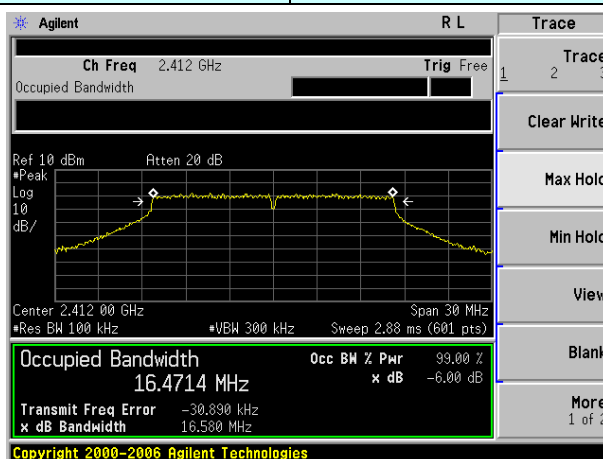


Highest channel

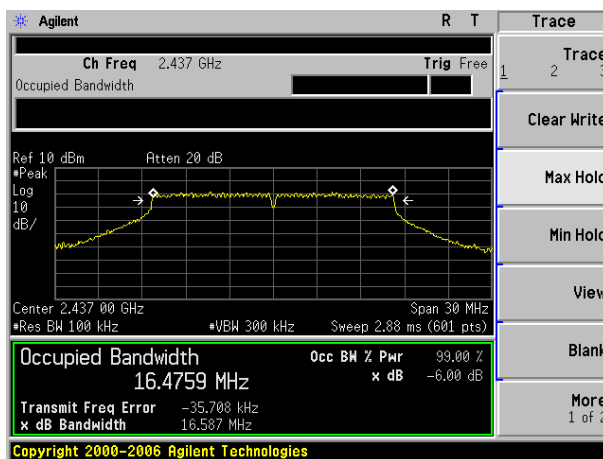
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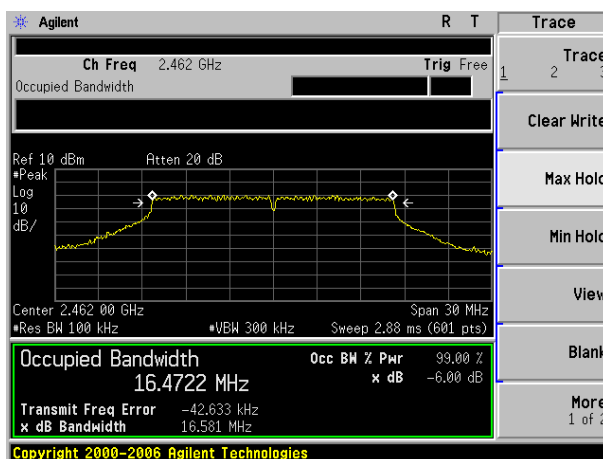
| | |
|------------|---------|
| Test mode: | 802.11g |
|------------|---------|



Lowest channel



Middle channel

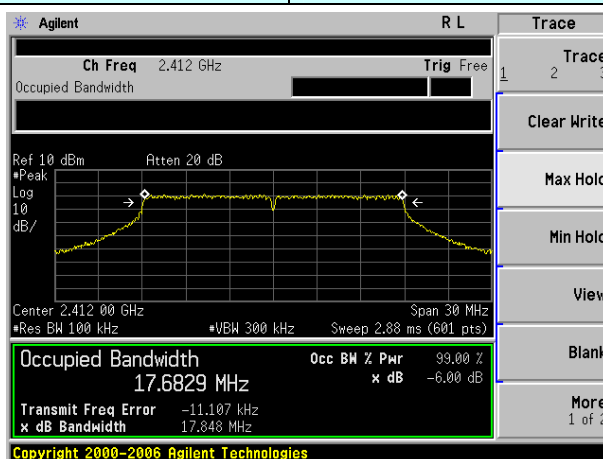


Highest channel

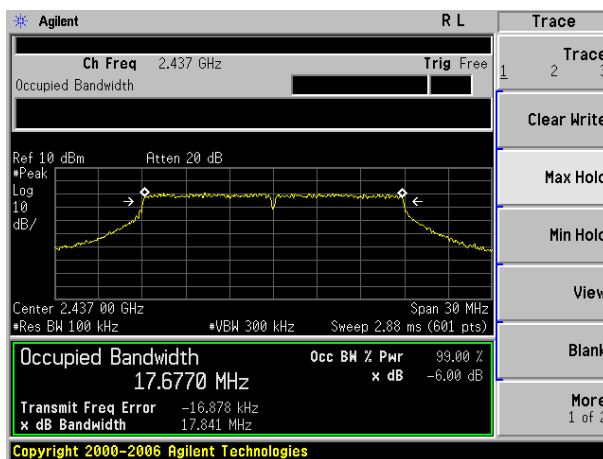
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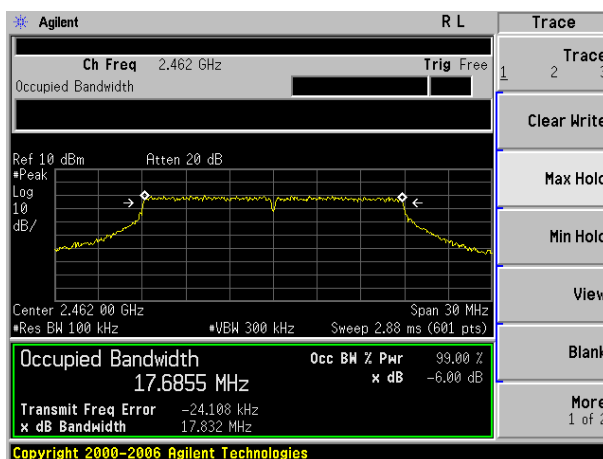
| | |
|------------|---------------|
| Test mode: | 802.11n(HT20) |
|------------|---------------|



Lowest channel



Middle channel

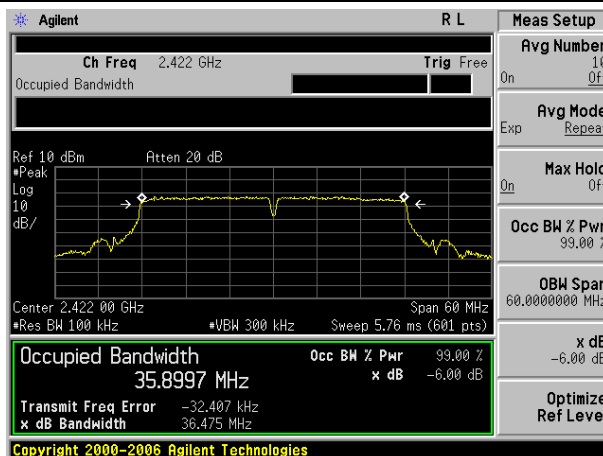


Highest channel

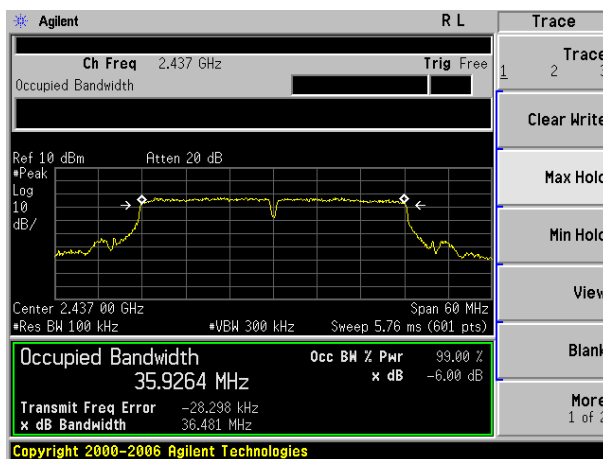
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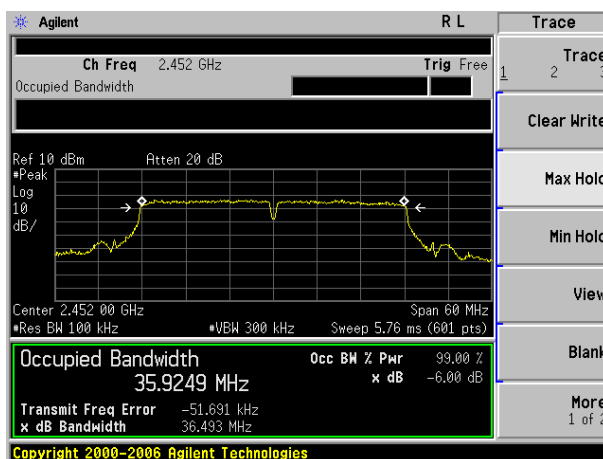
| | |
|------------|---------------|
| Test mode: | 802.11n(HT40) |
|------------|---------------|



Lowest channel



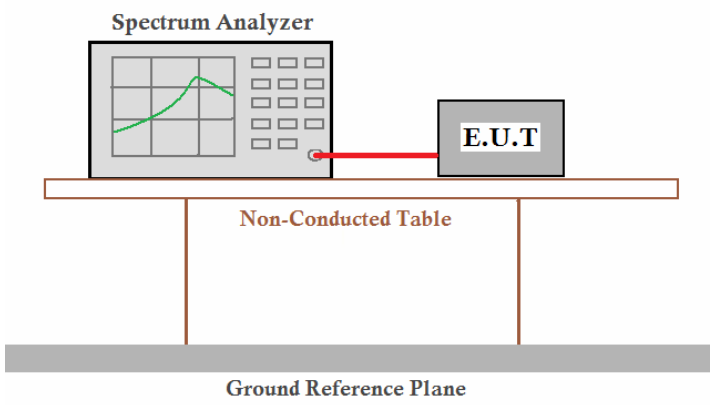
Middle channel



Highest channel

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6.5 Power Spectral Density

| | |
|-------------------|---|
| Test Requirement: | FCC Part15 C Section 15.247 (e) |
| Test Method: | ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V02 |
| Limit: | 8dBm |
| Test setup: |  |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Pass |

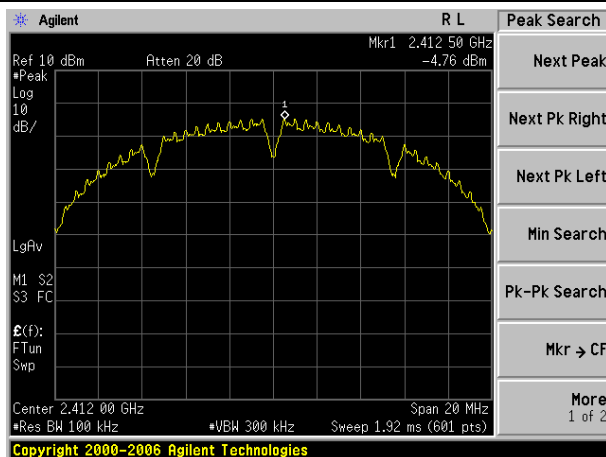
Measurement Data

| Test CH | Power Spectral Density (dBm) | | | | Limit (dBm/3kHz) | Result |
|---------|------------------------------|---------|---------------|---------------|------------------|--------|
| | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | | |
| Lowest | -4.76 | -8.08 | -8.59 | -11.92 | 8.00 | Pass |
| Middle | -5.43 | -8.71 | -9.16 | -12.54 | | |
| Highest | -6.43 | -9.69 | -10.25 | -13.02 | | |

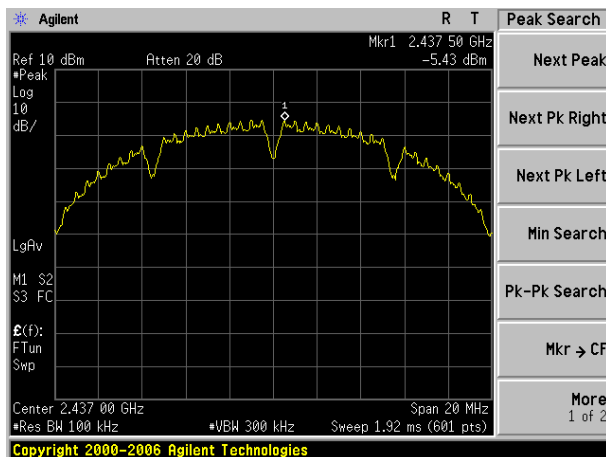
Test plot as follows:



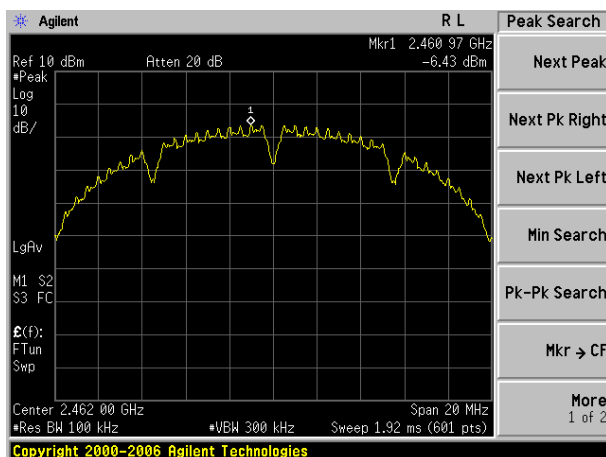
| | |
|------------|---------|
| Test mode: | 802.11b |
|------------|---------|



Lowest channel



Middle channel

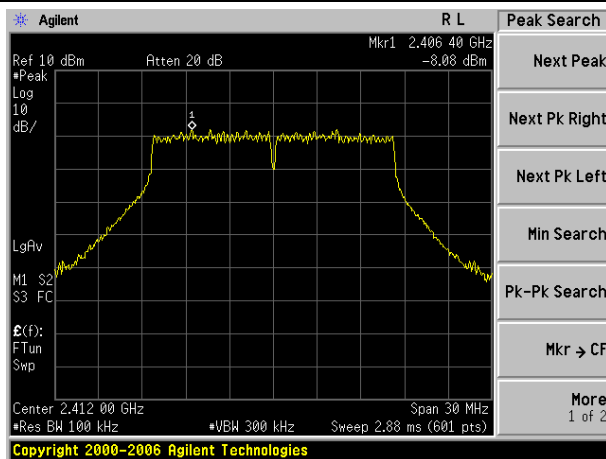


Highest channel

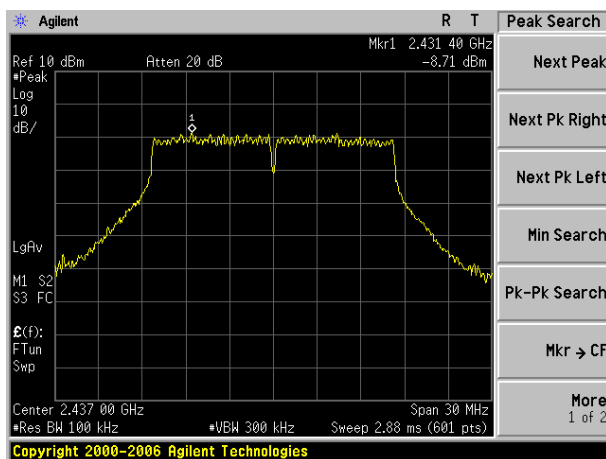
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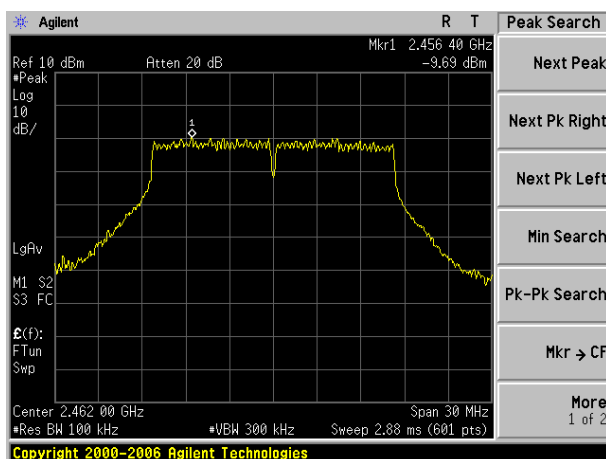
| | |
|------------|---------|
| Test mode: | 802.11g |
|------------|---------|



Lowest channel



Middle channel

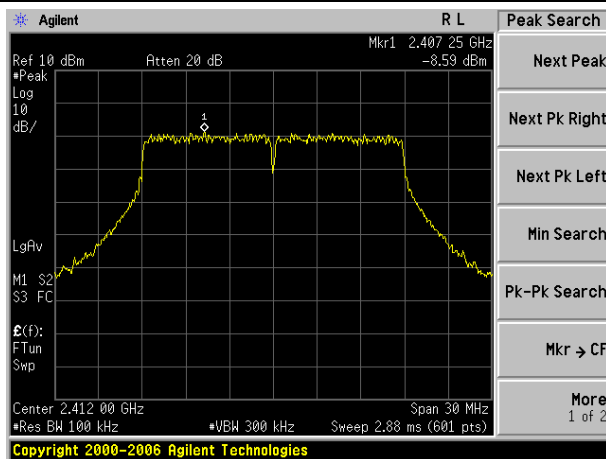


Highest channel

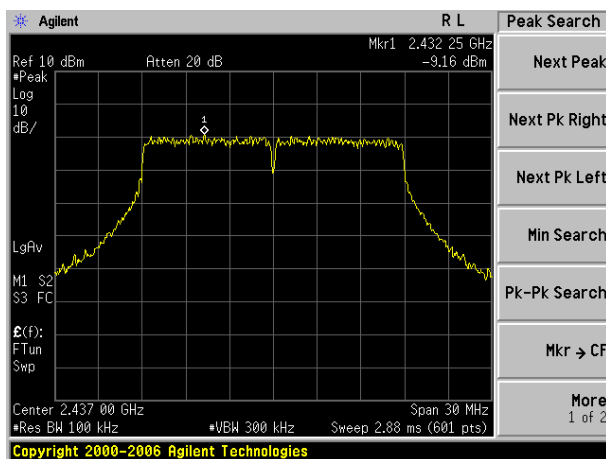
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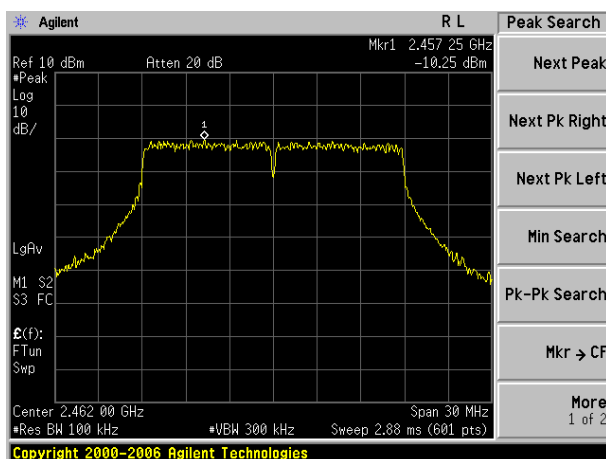
| | |
|------------|---------------|
| Test mode: | 802.11n(HT20) |
|------------|---------------|



Lowest channel



Middle channel

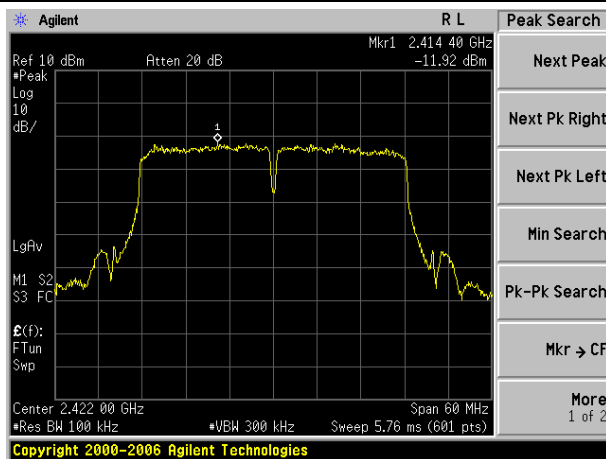


Highest channel

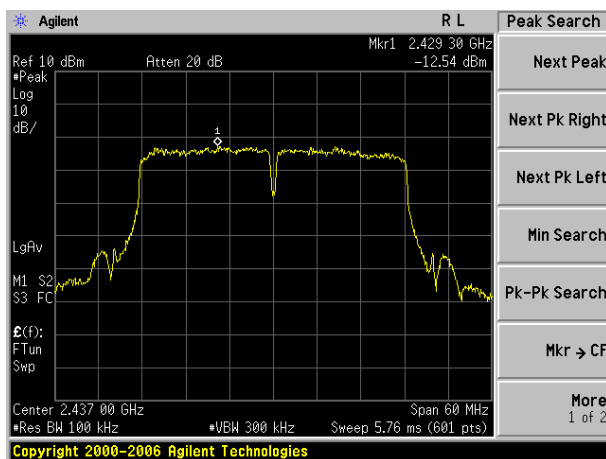
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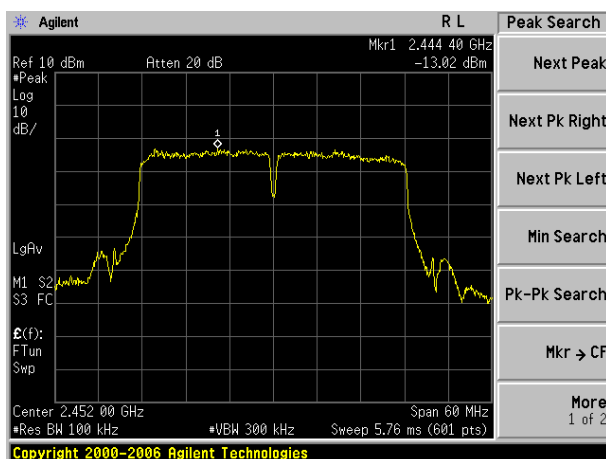
| | |
|------------|---------------|
| Test mode: | 802.11n(HT40) |
|------------|---------------|



Lowest channel



Middle channel

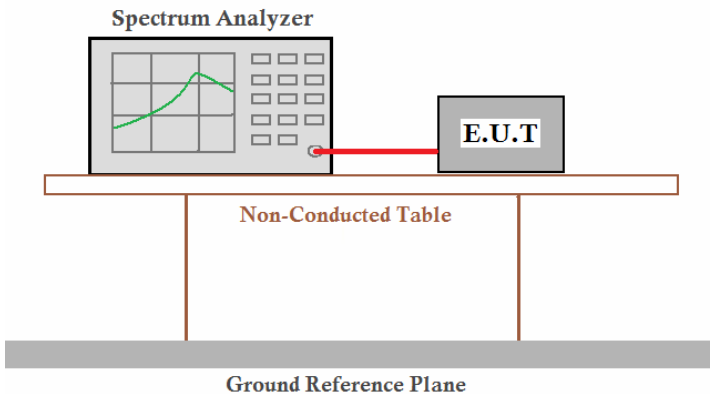


Highest channel

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6.6 Band edges

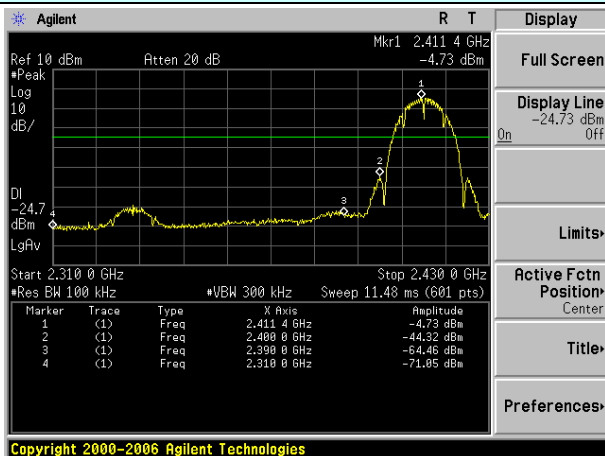
6.6.1 Conducted Emission Method

| | |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247 (d) |
| Test Method: | ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V02 |
| 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: |  <p>The diagram illustrates the test setup for conducted emission measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Pass |

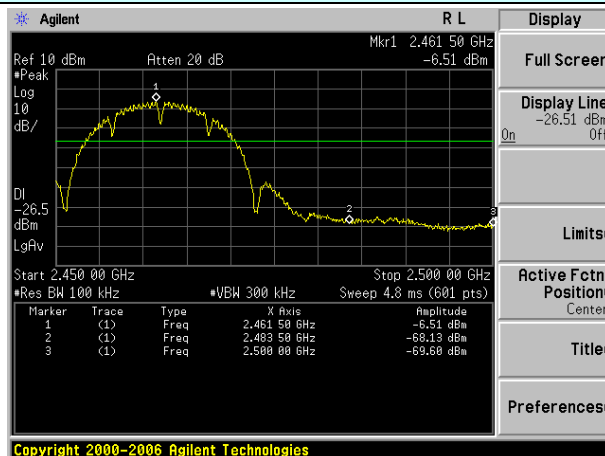
Test plot as follows:



Test mode: 802.11b

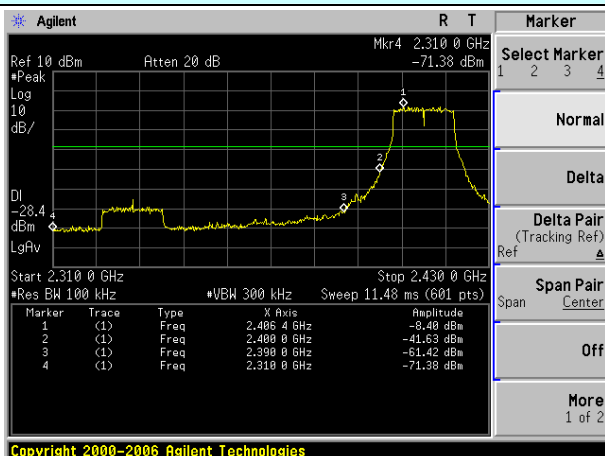


Lowest channel

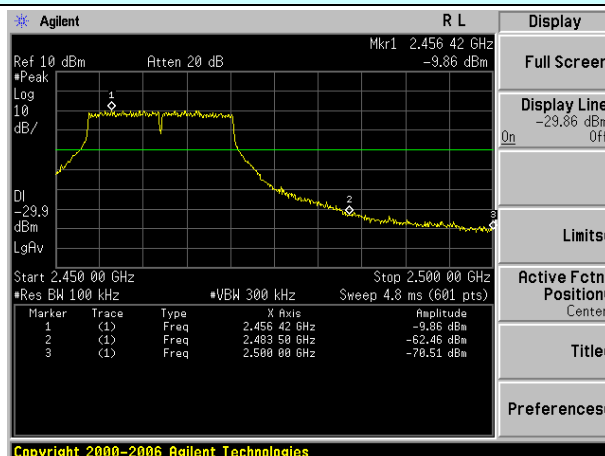


Highest channel

Test mode: 802.11g



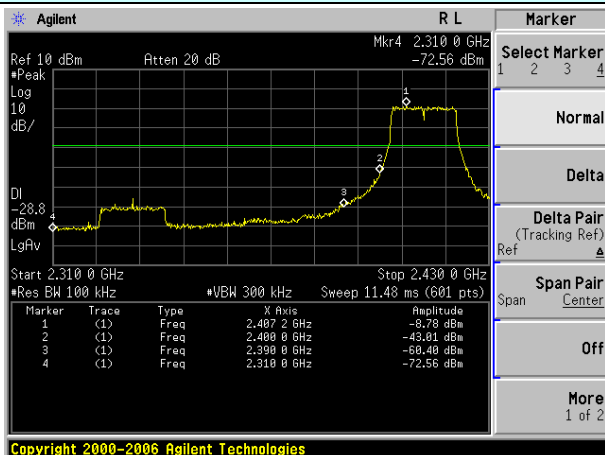
Lowest channel



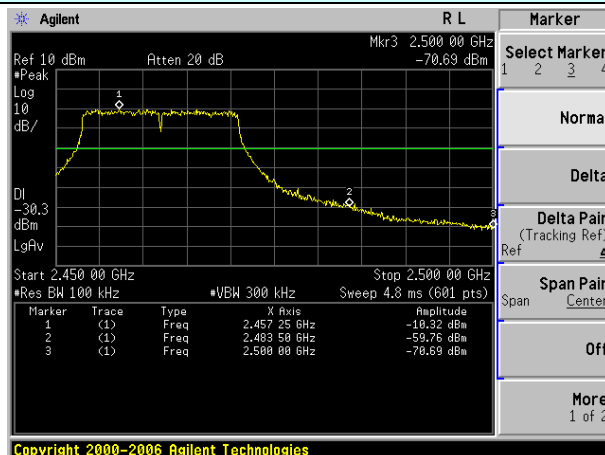
Highest channel



Test mode: 802.11n(HT20)

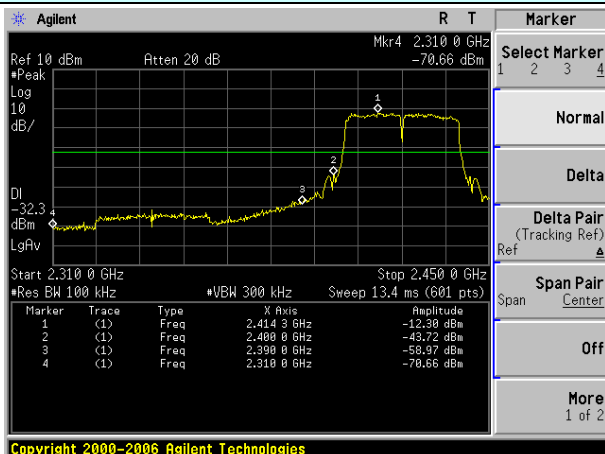


Lowest channel

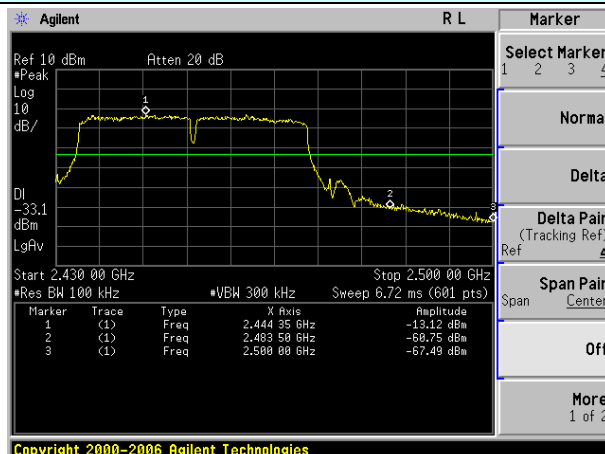


Highest channel

Test mode: 802.11n(HT40)

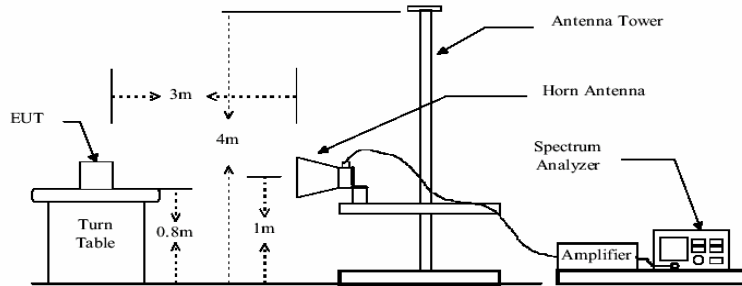


Lowest channel



Highest channel

6.6.2 Radiated Emission Method

| | | | | | |
|-----------------------|--|----------|--------------------|------|---------------|
| Test Requirement: | FCC Part15 C Section 15.209 and 15.205 | | | | |
| Test Method: | ANSI C63.4: 2003 | | | | |
| Test Frequency Range: | 30MHz to 25GHz, only worse case is reported | | | | |
| Test site: | Measurement Distance: 3m | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Remark |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value |
| | | Peak | 1MHz | 10Hz | Average Value |
| Limit: | Frequency | | Limit (dBuV/m @3m) | | Remark |
| | Above 1GHz | | 54.00 | | Average Value |
| | | | 74.00 | | Peak Value |
| Test setup: |  | | | | |
| Test Procedure: | <div>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>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.</div> <div>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.</div> <div>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.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</div> | | | | |
| Test Instruments: | Refer to section 5.8 for details | | | | |
| Test mode: | Refer to section 5.3 for details | | | | |
| Test results: | Pass | | | | |

Remark:

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

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Measurement data:

| | | | |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Lowest |
|------------|---------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 53.78 | 27.38 | 3.91 | 34.83 | 50.24 | 74.00 | -23.76 | Horizontal |
| 2400.00 | 57.88 | 27.38 | 3.93 | 34.83 | 54.36 | 74.00 | -19.64 | Horizontal |
| 2390.00 | 55.36 | 27.38 | 3.91 | 34.83 | 51.82 | 74.00 | -22.18 | Vertical |
| 2400.00 | 58.56 | 27.38 | 3.93 | 34.83 | 55.04 | 74.00 | -18.96 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 37.97 | 27.38 | 3.91 | 34.83 | 34.43 | 54.00 | -19.57 | Horizontal |
| 2400.00 | 40.52 | 27.38 | 3.93 | 34.83 | 37.00 | 54.00 | -17.00 | Horizontal |
| 2390.00 | 38.81 | 27.38 | 3.91 | 34.83 | 35.27 | 54.00 | -18.73 | Vertical |
| 2400.00 | 42.23 | 27.38 | 3.93 | 34.83 | 38.71 | 54.00 | -15.29 | Vertical |

| | | | |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 56.01 | 27.32 | 3.99 | 34.86 | 52.46 | 74.00 | -21.54 | Horizontal |
| 2500.00 | 53.60 | 27.35 | 4.00 | 34.87 | 50.08 | 74.00 | -23.92 | Horizontal |
| 2483.50 | 56.67 | 27.32 | 3.99 | 34.86 | 53.12 | 74.00 | -20.88 | Vertical |
| 2500.00 | 55.27 | 27.35 | 4.00 | 34.87 | 51.75 | 74.00 | -22.25 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 41.14 | 27.32 | 3.99 | 34.86 | 37.59 | 54.00 | -16.41 | Horizontal |
| 2500.00 | 36.65 | 27.35 | 4.00 | 34.87 | 33.13 | 54.00 | -20.87 | Horizontal |
| 2483.50 | 42.69 | 27.32 | 3.99 | 34.86 | 39.14 | 54.00 | -14.86 | Vertical |
| 2500.00 | 38.52 | 27.35 | 4.00 | 34.87 | 35.00 | 54.00 | -19.00 | 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 | Test channel: | Lowest |
|------------|---------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 52.56 | 27.38 | 3.91 | 34.83 | 49.02 | 74.00 | -24.98 | Horizontal |
| 2400.00 | 55.66 | 27.38 | 3.93 | 34.83 | 52.14 | 74.00 | -21.86 | Horizontal |
| 2390.00 | 54.26 | 27.38 | 3.91 | 34.83 | 50.72 | 74.00 | -23.28 | Vertical |
| 2400.00 | 57.09 | 27.38 | 3.93 | 34.83 | 53.57 | 74.00 | -20.43 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 36.50 | 27.38 | 3.91 | 34.83 | 32.96 | 54.00 | -21.04 | Horizontal |
| 2400.00 | 38.57 | 27.38 | 3.93 | 34.83 | 35.05 | 54.00 | -18.95 | Horizontal |
| 2390.00 | 36.01 | 27.38 | 3.91 | 34.83 | 32.47 | 54.00 | -21.53 | Vertical |
| 2400.00 | 37.97 | 27.38 | 3.93 | 34.83 | 34.45 | 54.00 | -19.55 | Vertical |

| | | | |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 53.31 | 27.32 | 3.99 | 34.86 | 49.76 | 74.00 | -24.24 | Horizontal |
| 2500.00 | 50.00 | 27.35 | 4.00 | 34.87 | 46.48 | 74.00 | -27.52 | Horizontal |
| 2483.50 | 54.98 | 27.32 | 3.99 | 34.86 | 51.43 | 74.00 | -22.57 | Vertical |
| 2500.00 | 52.84 | 27.35 | 4.00 | 34.87 | 49.32 | 74.00 | -24.68 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 39.11 | 27.32 | 3.99 | 34.86 | 35.56 | 54.00 | -18.44 | Horizontal |
| 2500.00 | 36.32 | 27.35 | 4.00 | 34.87 | 32.80 | 54.00 | -21.20 | Horizontal |
| 2483.50 | 40.58 | 27.32 | 3.99 | 34.86 | 37.03 | 54.00 | -16.97 | Vertical |
| 2500.00 | 38.52 | 27.35 | 4.00 | 34.87 | 35.00 | 54.00 | -19.00 | 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: | 802.11n(H20) | Test channel: | Lowest |
|------------|--------------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 52.51 | 27.38 | 3.91 | 34.83 | 48.97 | 74.00 | -25.03 | Horizontal |
| 2400.00 | 55.19 | 27.38 | 3.93 | 34.83 | 51.67 | 74.00 | -22.33 | Horizontal |
| 2390.00 | 48.39 | 27.38 | 3.91 | 34.83 | 44.85 | 74.00 | -29.15 | Vertical |
| 2400.00 | 51.43 | 27.38 | 3.93 | 34.83 | 47.91 | 74.00 | -26.09 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 36.80 | 27.38 | 3.91 | 34.83 | 33.26 | 54.00 | -20.74 | Horizontal |
| 2400.00 | 39.05 | 27.38 | 3.93 | 34.83 | 35.53 | 54.00 | -18.47 | Horizontal |
| 2390.00 | 36.58 | 27.38 | 3.91 | 34.83 | 33.04 | 54.00 | -20.96 | Vertical |
| 2400.00 | 38.40 | 27.38 | 3.93 | 34.83 | 34.88 | 54.00 | -19.12 | Vertical |

| | | | |
|------------|--------------|---------------|---------|
| Test mode: | 802.11n(H20) | Test channel: | Highest |
|------------|--------------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 51.81 | 27.32 | 3.99 | 34.86 | 48.26 | 74.00 | -25.74 | Horizontal |
| 2500.00 | 50.07 | 27.35 | 4.00 | 34.87 | 46.55 | 74.00 | -27.45 | Horizontal |
| 2483.50 | 53.87 | 27.32 | 3.99 | 34.86 | 50.32 | 74.00 | -23.68 | Vertical |
| 2500.00 | 51.00 | 27.35 | 4.00 | 34.87 | 47.48 | 74.00 | -26.52 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 38.64 | 27.32 | 3.99 | 34.86 | 35.09 | 54.00 | -18.91 | Horizontal |
| 2500.00 | 35.72 | 27.35 | 4.00 | 34.87 | 32.20 | 54.00 | -21.80 | Horizontal |
| 2483.50 | 39.13 | 27.32 | 3.99 | 34.86 | 35.58 | 54.00 | -18.42 | Vertical |
| 2500.00 | 37.36 | 27.35 | 4.00 | 34.87 | 33.84 | 54.00 | -20.16 | 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: | 802.11n(H40) | Test channel: | Lowest |
|------------|--------------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 53.70 | 27.38 | 3.91 | 34.83 | 50.16 | 74.00 | -23.84 | Horizontal |
| 2400.00 | 55.49 | 27.38 | 3.93 | 34.83 | 51.97 | 74.00 | -22.03 | Horizontal |
| 2390.00 | 54.59 | 27.38 | 3.91 | 34.83 | 51.05 | 74.00 | -22.95 | Vertical |
| 2400.00 | 59.19 | 27.38 | 3.93 | 34.83 | 55.67 | 74.00 | -18.33 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2390.00 | 35.90 | 27.38 | 3.91 | 34.83 | 32.36 | 54.00 | -21.64 | Horizontal |
| 2400.00 | 39.05 | 27.38 | 3.93 | 34.83 | 35.53 | 54.00 | -18.47 | Horizontal |
| 2390.00 | 36.01 | 27.38 | 3.91 | 34.83 | 32.47 | 54.00 | -21.53 | Vertical |
| 2400.00 | 38.83 | 27.38 | 3.93 | 34.83 | 35.31 | 54.00 | -18.69 | Vertical |

| | | | |
|------------|--------------|---------------|---------|
| Test mode: | 802.11n(H40) | Test channel: | Highest |
|------------|--------------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 56.39 | 27.32 | 3.99 | 34.86 | 52.84 | 74.00 | -21.16 | Horizontal |
| 2500.00 | 52.77 | 27.35 | 4.00 | 34.87 | 49.25 | 74.00 | -24.75 | Horizontal |
| 2483.50 | 56.07 | 27.32 | 3.99 | 34.86 | 52.52 | 74.00 | -21.48 | Vertical |
| 2500.00 | 53.04 | 27.35 | 4.00 | 34.87 | 49.52 | 74.00 | -24.48 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 40.84 | 27.32 | 3.99 | 34.86 | 37.29 | 54.00 | -16.71 | Horizontal |
| 2500.00 | 38.73 | 27.35 | 4.00 | 34.87 | 35.21 | 54.00 | -18.79 | Horizontal |
| 2483.50 | 40.63 | 27.32 | 3.99 | 34.86 | 37.08 | 54.00 | -16.92 | Vertical |
| 2500.00 | 38.90 | 27.35 | 4.00 | 34.87 | 35.38 | 54.00 | -18.62 | Vertical |

Remark:

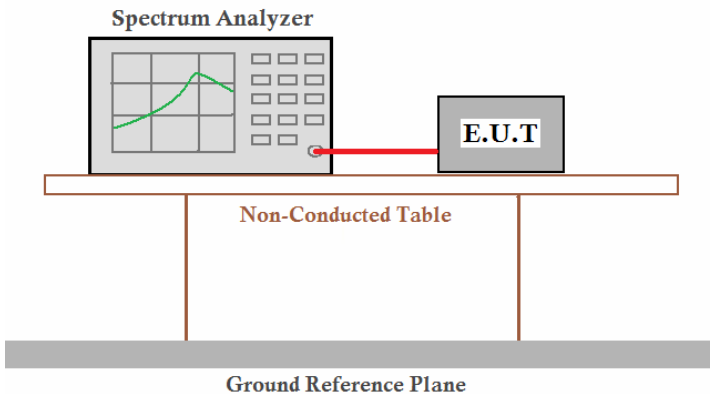
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

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6.7 Spurious Emission

6.7.1 Conducted Emission Method

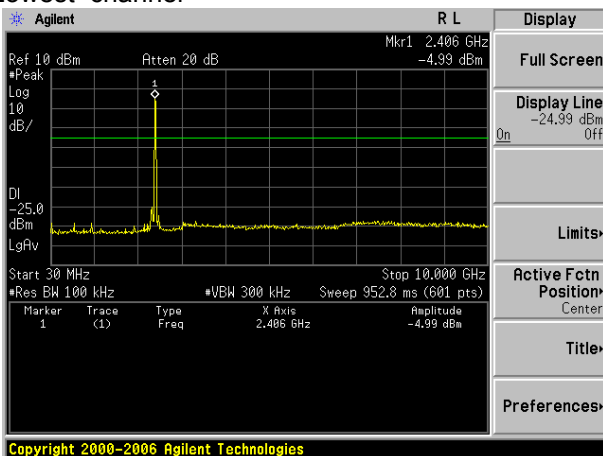
| | |
|-------------------|---|
| Test Requirement: | FCC Part15 C Section 15.247 (d) |
| Test Method: | ANSI C63.4:2003 and KDB558074 D01 DTS Meas Guidance V02 |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency 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: |  |
| Test Instruments: | Refer to section 5.8 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Pass |

Test plot as follows:

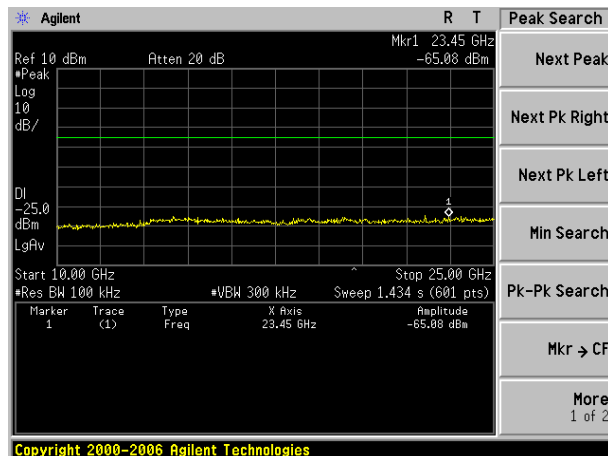


| | |
|------------|---------|
| Test mode: | 802.11b |
|------------|---------|

Lowest channel

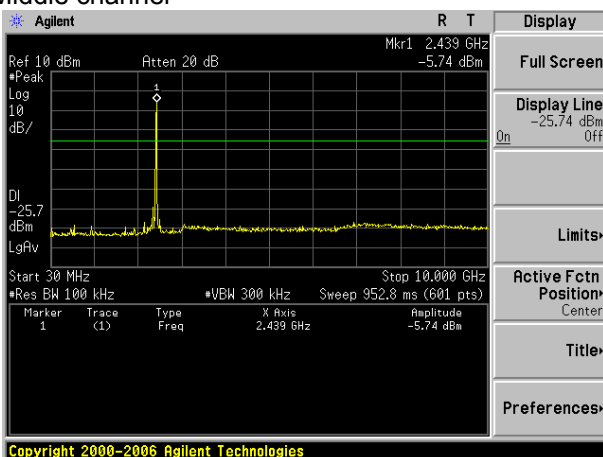


30MHz~10GHz

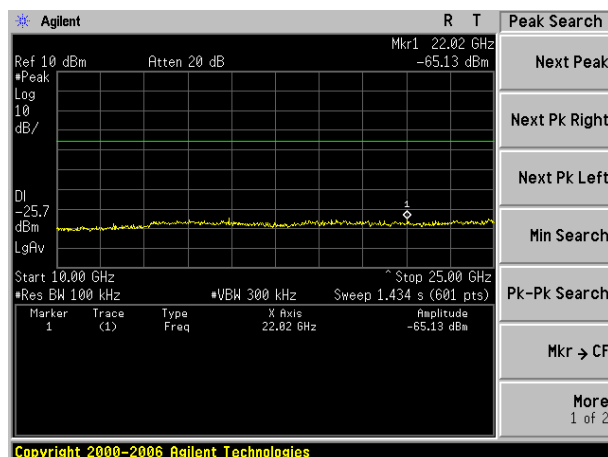


10GHz~25GHz

Middle channel

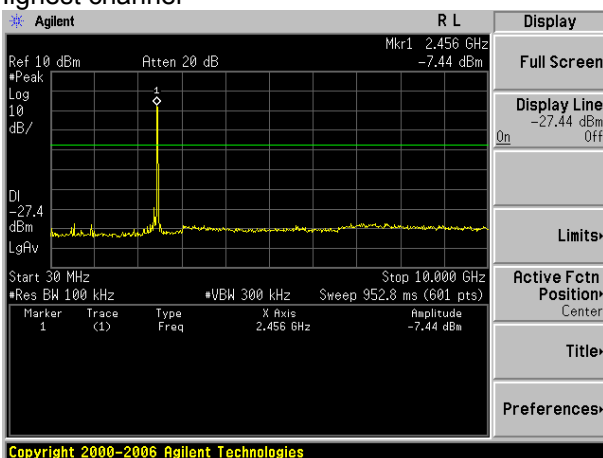


30MHz~10GHz

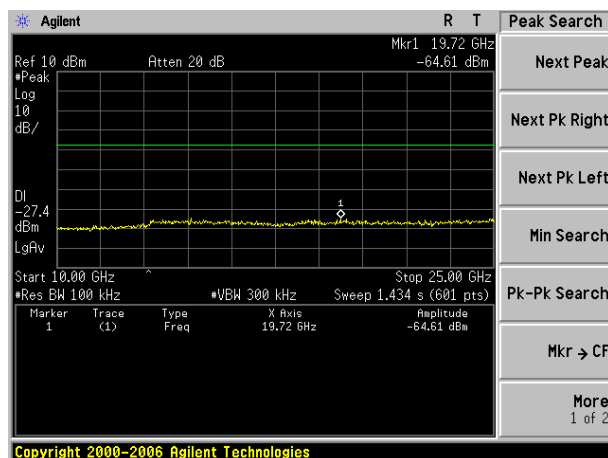


10GHz~25GHz

Highest channel



30MHz~10GHz



10GHz~25GHz

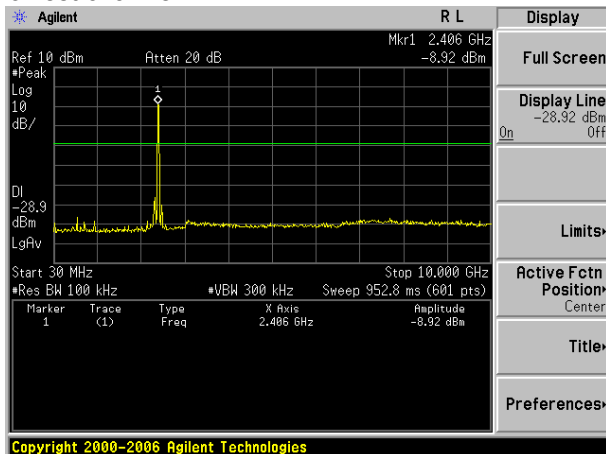
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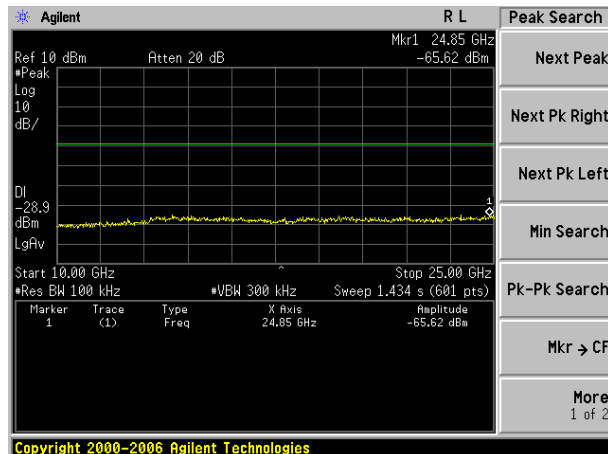
Test mode:

802.11g

Lowest channel

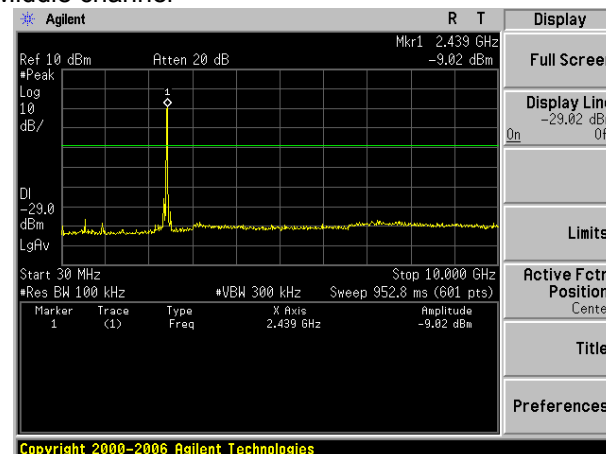


30MHz~10GHz

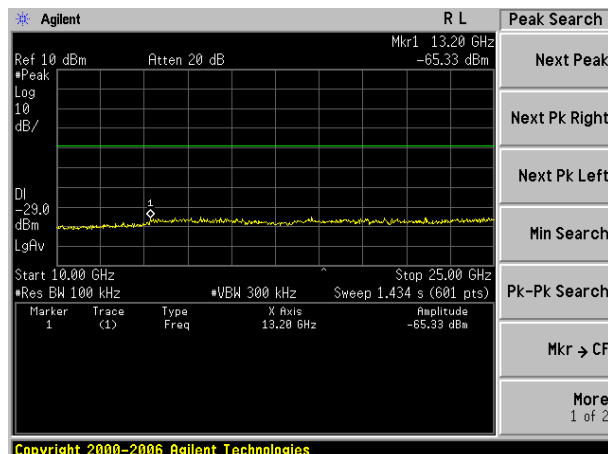


10GHz~25GHz

Middle channel

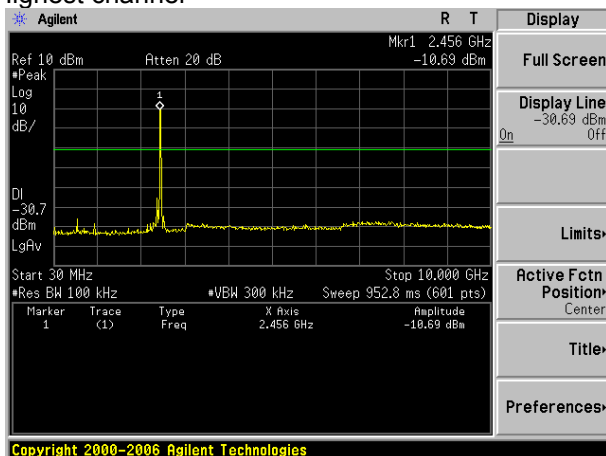


30MHz~10GHz

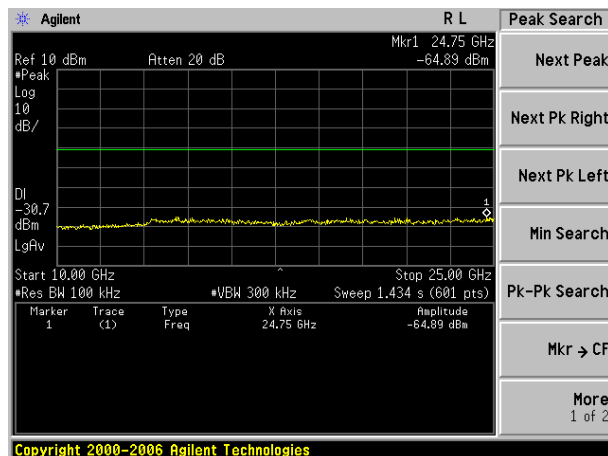


10GHz~25GHz

Highest channel



30MHz~10GHz



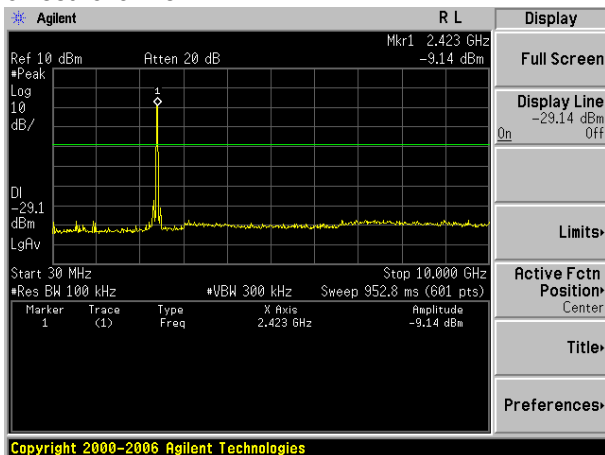
10GHz~25GHz

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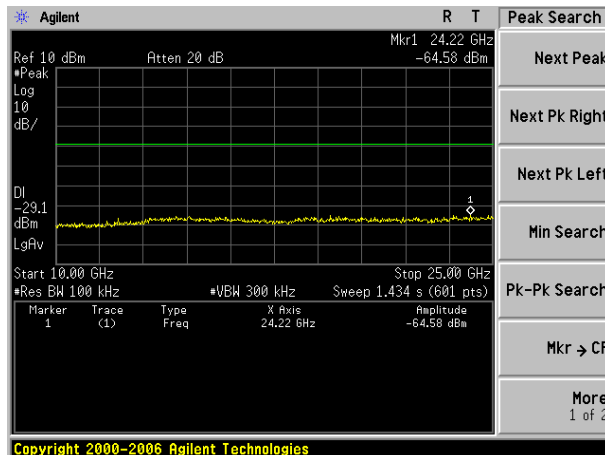


| | |
|------------|---------------|
| Test mode: | 802.11n(HT20) |
|------------|---------------|

Lowest channel

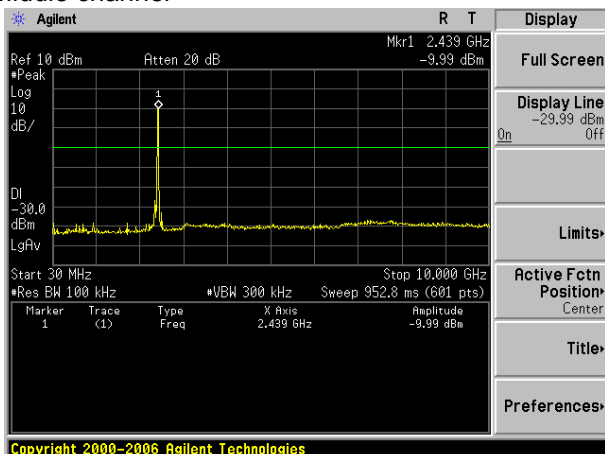


30MHz~10GHz

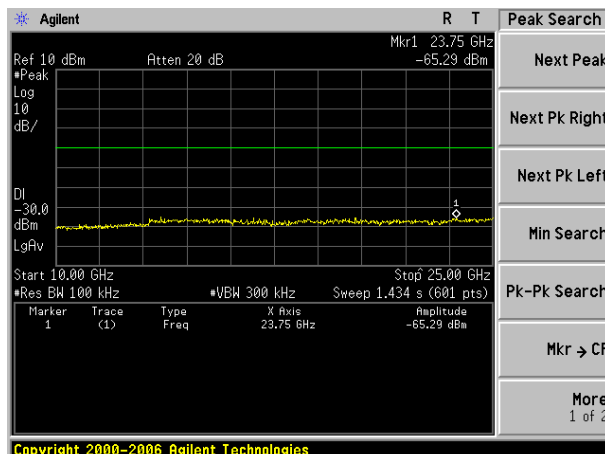


10GHz~25GHz

Middle channel

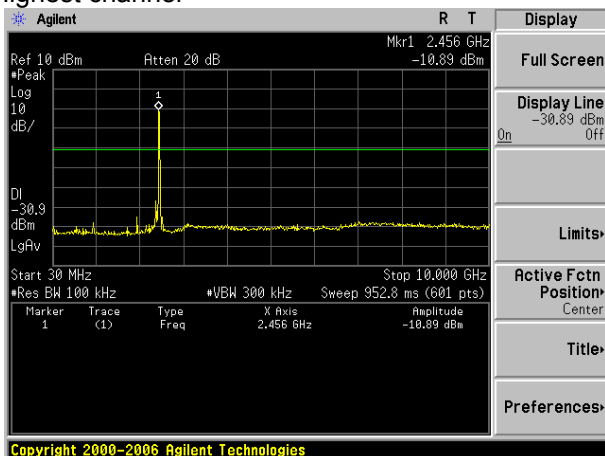


30MHz~10GHz

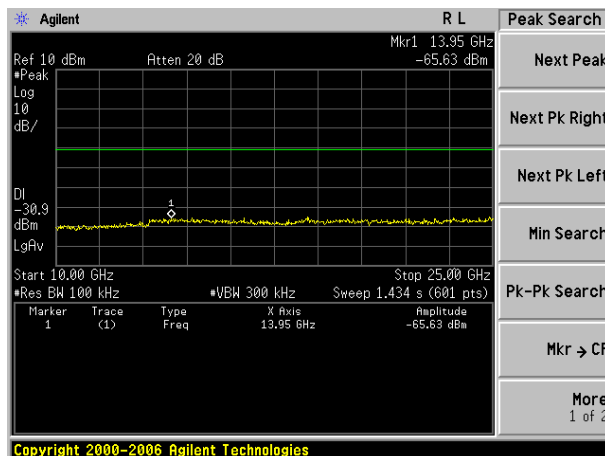


10GHz~25GHz

Highest channel



30MHz~10GHz



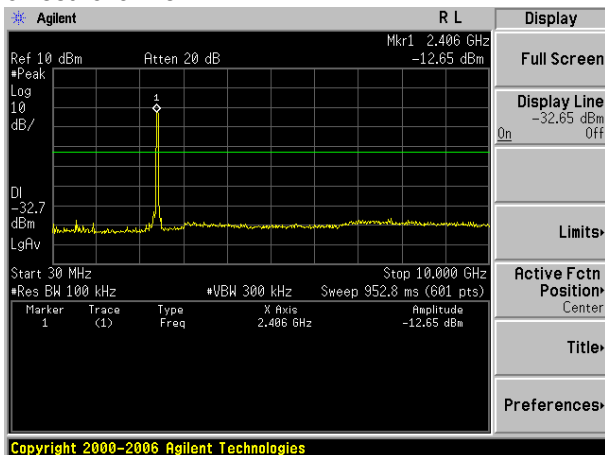
10GHz~25GHz

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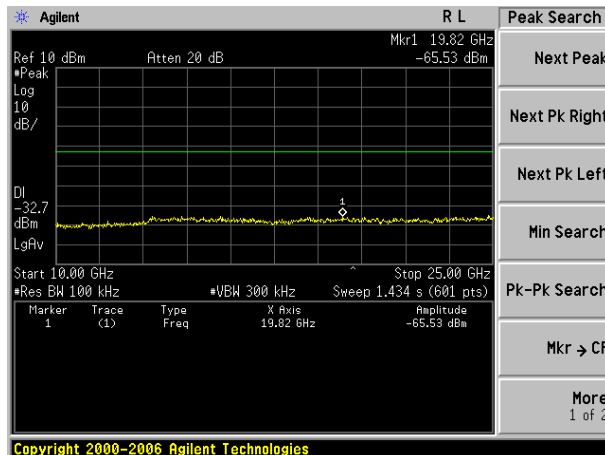


| | |
|------------|---------------|
| Test mode: | 802.11n(HT40) |
|------------|---------------|

Lowest channel

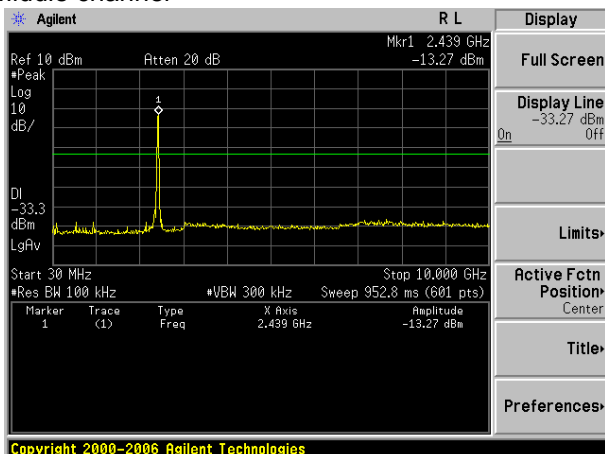


30MHz~10GHz

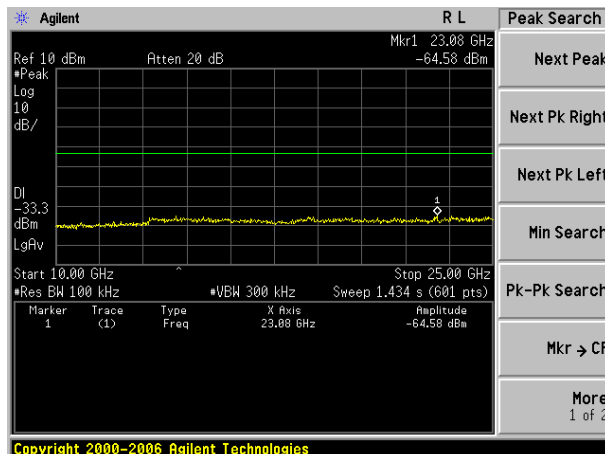


10GHz~25GHz

Middle channel

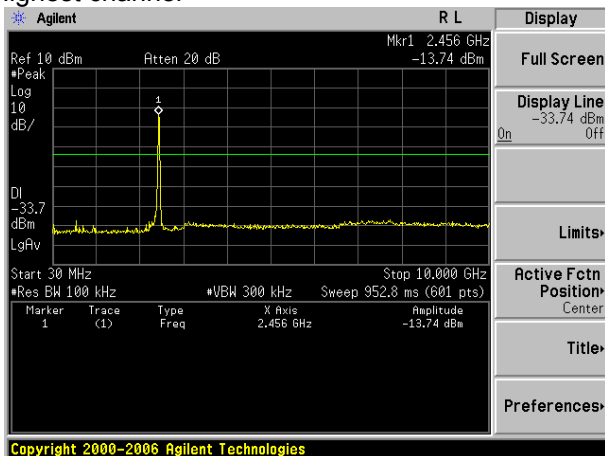


30MHz~10GHz

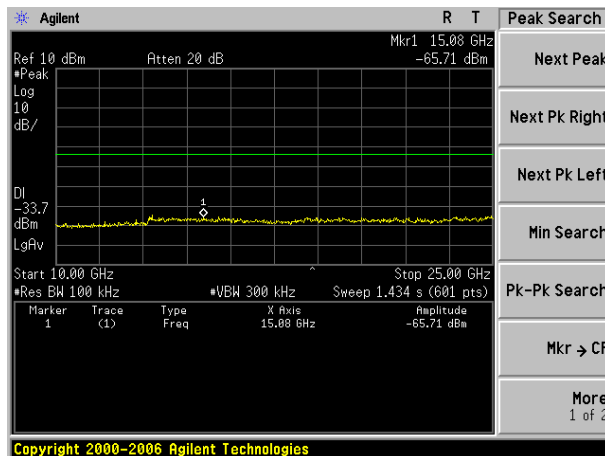


10GHz~25GHz

Highest channel



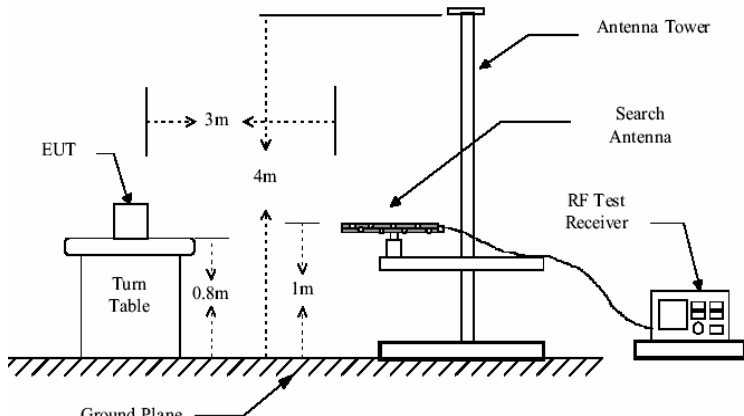
30MHz~10GHz

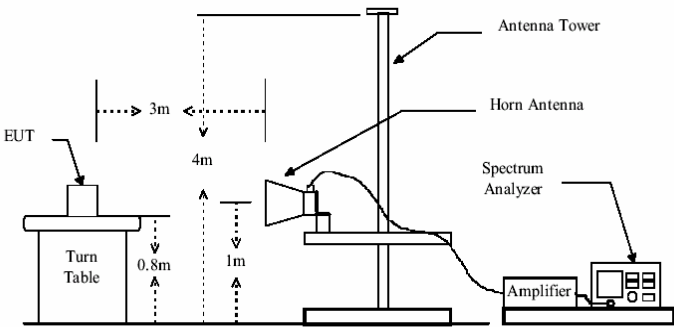


10GHz~25GHz

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6.7.2 Radiated Emission Method

| | | | | | |
|-----------------------|--|------------|--------------------|--------|------------------|
| Test Requirement: | FCC Part15 C Section 15.209 | | | | |
| Test Method: | ANSI C63.4: 2003 | | | | |
| Test Frequency Range: | 30MHz to 25GHz | | | | |
| Test site: | Measurement Distance: 3m | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Remark |
| | 30MHz-1GHz | Quasi-peak | 100KHz | 300KHz | Quasi-peak Value |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value |
| | | Peak | 1MHz | 10Hz | Average Value |
| Limit: | Frequency | | Limit (dBuV/m @3m) | | Remark |
| | 30MHz-88MHz | | 40.0 | | Quasi-peak Value |
| | 88MHz-216MHz | | 43.5 | | Quasi-peak Value |
| | 216MHz-960MHz | | 46.0 | | Quasi-peak Value |
| | 960MHz-1GHz | | 54.0 | | Quasi-peak Value |
| | Above 1GHz | | 54.0 | | Average Value |
| | | | 74.0 | | Peak Value |
| Test setup: | Below 1GHz | | | | |
| |  | | | | |
| | Above 1GHz | | | | |

| | |
|--------------------------|---|
| |  |
| <p>Test Procedure:</p> | <ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. 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, quasi-peak or average method as specified and then reported in a data sheet. |
| <p>Test Instruments:</p> | <p>Refer to section 5.8 for details</p> |
| <p>Test mode:</p> | <p>Refer to section 5.3 for details</p> |
| <p>Test results:</p> | <p>Pass</p> |

Remark:

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



■ Below 1GHz

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 61.35 | 52.04 | 15.52 | 0.87 | 31.93 | 36.50 | 40.00 | -3.50 | Vertical |
| 216.02 | 50.85 | 14.12 | 1.93 | 32.15 | 34.75 | 46.00 | -11.25 | Vertical |
| 307.83 | 52.96 | 16.18 | 2.40 | 32.15 | 39.39 | 46.00 | -6.61 | Vertical |
| 361.71 | 49.04 | 16.43 | 2.68 | 31.99 | 36.16 | 46.00 | -9.84 | Vertical |
| 431.03 | 48.68 | 17.53 | 3.00 | 31.78 | 37.43 | 46.00 | -8.57 | Vertical |
| 860.04 | 43.73 | 23.69 | 4.69 | 31.23 | 40.88 | 46.00 | -5.12 | Vertical |
| 61.35 | 49.26 | 15.52 | 0.87 | 31.93 | 33.72 | 40.00 | -6.28 | Horizontal |
| 249.43 | 53.22 | 15.07 | 2.12 | 32.16 | 38.25 | 46.00 | -7.75 | Horizontal |
| 306.75 | 50.83 | 16.15 | 2.39 | 32.16 | 37.21 | 46.00 | -8.79 | Horizontal |
| 361.71 | 51.10 | 16.43 | 2.68 | 31.99 | 38.22 | 46.00 | -7.78 | Horizontal |
| 431.03 | 51.43 | 17.53 | 3.00 | 31.78 | 40.18 | 46.00 | -5.82 | Horizontal |
| 860.04 | 43.30 | 23.69 | 4.69 | 31.23 | 40.45 | 46.00 | -5.55 | Horizontal |

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■ Above 1GHz

| | | | |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Lowest |
|------------|---------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4824.00 | 32.25 | 31.28 | 8.62 | 24.17 | 47.98 | 74.00 | -26.02 | Vertical |
| 7236.00 | 35.11 | 35.36 | 11.68 | 26.52 | 55.63 | 74.00 | -18.37 | Vertical |
| 9648.00 | 34.89 | 37.44 | 14.16 | 25.44 | 61.05 | 74.00 | -12.95 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 33.67 | 31.28 | 8.62 | 24.17 | 49.40 | 74.00 | -24.60 | Horizontal |
| 7236.00 | 36.23 | 35.36 | 11.68 | 26.52 | 56.75 | 74.00 | -17.25 | Horizontal |
| 9648.00 | 33.38 | 37.44 | 14.16 | 25.44 | 59.54 | 74.00 | -14.46 | 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) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4824.00 | 18.86 | 31.28 | 8.62 | 24.17 | 34.59 | 54.00 | -19.41 | Vertical |
| 7236.00 | 19.79 | 35.36 | 11.68 | 26.52 | 40.31 | 54.00 | -13.69 | Vertical |
| 9648.00 | 19.41 | 37.44 | 14.16 | 25.44 | 45.57 | 54.00 | -8.43 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4824.00 | 19.81 | 31.28 | 8.62 | 24.17 | 35.54 | 54.00 | -18.46 | Horizontal |
| 7236.00 | 21.13 | 35.36 | 11.68 | 26.52 | 41.65 | 54.00 | -12.35 | Horizontal |
| 9648.00 | 18.13 | 37.44 | 14.16 | 25.44 | 44.29 | 54.00 | -9.71 | 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.



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| | | | |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Middle |
|------------|---------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 32.68 | 32.02 | 8.66 | 24.12 | 49.24 | 74.00 | -24.76 | Vertical |
| 7311.00 | 35.03 | 36.64 | 11.71 | 26.71 | 56.67 | 74.00 | -17.33 | Vertical |
| 9748.00 | 32.10 | 38.54 | 14.25 | 25.38 | 59.51 | 74.00 | -14.49 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 33.63 | 32.02 | 8.66 | 24.12 | 50.19 | 74.00 | -23.81 | Horizontal |
| 7311.00 | 35.05 | 36.64 | 11.71 | 26.71 | 56.69 | 74.00 | -17.31 | Horizontal |
| 9748.00 | 31.94 | 38.54 | 14.25 | 25.38 | 59.35 | 74.00 | -14.65 | Horizontal |
| 12185.00 | * | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 19.29 | 32.02 | 8.66 | 24.12 | 35.85 | 54.00 | -18.15 | Vertical |
| 7311.00 | 19.71 | 36.64 | 11.71 | 26.71 | 41.35 | 54.00 | -12.65 | Vertical |
| 9748.00 | 16.62 | 38.54 | 14.25 | 25.38 | 44.03 | 54.00 | -9.97 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 19.77 | 32.02 | 8.66 | 24.12 | 36.33 | 54.00 | -17.67 | Horizontal |
| 7311.00 | 19.95 | 36.64 | 11.71 | 26.71 | 41.59 | 54.00 | -12.41 | Horizontal |
| 9748.00 | 16.69 | 38.54 | 14.25 | 25.38 | 44.10 | 54.00 | -9.90 | 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 too weak instrument of signal is unable to test.*

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| | | | |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4924.00 | 33.18 | 32.14 | 8.70 | 24.05 | 49.97 | 74.00 | -24.03 | Vertical |
| 7386.00 | 36.92 | 36.75 | 11.76 | 26.90 | 58.53 | 74.00 | -15.47 | Vertical |
| 9848.00 | 31.66 | 38.79 | 14.31 | 25.30 | 59.46 | 74.00 | -14.54 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 34.44 | 32.14 | 8.70 | 24.05 | 51.23 | 74.00 | -22.77 | Horizontal |
| 7386.00 | 37.07 | 36.75 | 11.76 | 26.90 | 58.68 | 74.00 | -15.32 | Horizontal |
| 9848.00 | 32.15 | 38.79 | 14.31 | 25.30 | 59.95 | 74.00 | -14.05 | Horizontal |
| 12310.00 | * | | | | | 74.00 | | Horizontal |
| 14772.00 | * | | | | | 74.00 | | Horizontal |
| 17234.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4924.00 | 19.79 | 32.14 | 8.70 | 24.05 | 36.58 | 54.00 | -17.42 | Vertical |
| 7386.00 | 21.60 | 36.75 | 11.76 | 26.90 | 43.21 | 54.00 | -10.79 | Vertical |
| 9848.00 | 16.18 | 38.79 | 14.31 | 25.30 | 43.98 | 54.00 | -10.02 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 20.58 | 32.14 | 8.70 | 24.05 | 37.37 | 54.00 | -16.63 | Horizontal |
| 7386.00 | 21.97 | 36.75 | 11.76 | 26.90 | 43.58 | 54.00 | -10.42 | Horizontal |
| 9848.00 | 16.90 | 38.79 | 14.31 | 25.30 | 44.70 | 54.00 | -9.30 | 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 – Pre-amplifier Factor
2. “*”, means this data is the too weak instrument of signal is unable to test.

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| | | | |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | lowest |
|------------|---------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4824.00 | 32.79 | 31.28 | 8.62 | 24.17 | 48.52 | 74.00 | -25.48 | Vertical |
| 7236.00 | 35.74 | 35.36 | 11.68 | 26.52 | 56.26 | 74.00 | -17.74 | Vertical |
| 9648.00 | 35.61 | 37.44 | 14.16 | 25.44 | 61.77 | 74.00 | -12.23 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 34.41 | 31.28 | 8.62 | 24.17 | 50.14 | 74.00 | -23.86 | Horizontal |
| 7236.00 | 36.92 | 35.36 | 11.68 | 26.52 | 57.44 | 74.00 | -16.56 | Horizontal |
| 9648.00 | 33.96 | 37.44 | 14.16 | 25.44 | 60.12 | 74.00 | -13.88 | 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) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4824.00 | 19.40 | 31.28 | 8.62 | 24.17 | 35.13 | 54.00 | -18.87 | Vertical |
| 7236.00 | 20.42 | 35.36 | 11.68 | 26.52 | 40.94 | 54.00 | -13.06 | Vertical |
| 9648.00 | 20.13 | 37.44 | 14.16 | 25.44 | 46.29 | 54.00 | -7.71 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4824.00 | 20.55 | 31.28 | 8.62 | 24.17 | 36.28 | 54.00 | -17.72 | Horizontal |
| 7236.00 | 21.82 | 35.36 | 11.68 | 26.52 | 42.34 | 54.00 | -11.66 | Horizontal |
| 9648.00 | 18.71 | 37.44 | 14.16 | 25.44 | 44.87 | 54.00 | -9.13 | 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.*

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| | | | |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Middle |
|------------|---------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 33.15 | 32.02 | 8.66 | 24.12 | 49.71 | 74.00 | -24.29 | Vertical |
| 7311.00 | 35.65 | 36.64 | 11.71 | 26.71 | 57.29 | 74.00 | -16.71 | Vertical |
| 9748.00 | 32.49 | 38.54 | 14.25 | 25.38 | 59.90 | 74.00 | -14.10 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 34.24 | 32.02 | 8.66 | 24.12 | 50.80 | 74.00 | -23.20 | Horizontal |
| 7311.00 | 35.80 | 36.64 | 11.71 | 26.71 | 57.44 | 74.00 | -16.56 | Horizontal |
| 9748.00 | 32.28 | 38.54 | 14.25 | 25.38 | 59.69 | 74.00 | -14.31 | Horizontal |
| 12185.00 | * | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 19.76 | 32.02 | 8.66 | 24.12 | 36.32 | 54.00 | -17.68 | Vertical |
| 7311.00 | 20.33 | 36.64 | 11.71 | 26.71 | 41.97 | 54.00 | -12.03 | Vertical |
| 9748.00 | 17.01 | 38.54 | 14.25 | 25.38 | 44.42 | 54.00 | -9.58 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 20.38 | 32.02 | 8.66 | 24.12 | 36.94 | 54.00 | -17.06 | Horizontal |
| 7311.00 | 20.70 | 36.64 | 11.71 | 26.71 | 42.34 | 54.00 | -11.66 | Horizontal |
| 9748.00 | 17.03 | 38.54 | 14.25 | 25.38 | 44.44 | 54.00 | -9.56 | 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 too weak instrument of signal is unable to test.*

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| | | | |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4924.00 | 34.02 | 32.14 | 8.70 | 24.05 | 50.81 | 74.00 | -23.19 | Vertical |
| 7386.00 | 37.64 | 36.75 | 11.76 | 26.90 | 59.25 | 74.00 | -14.75 | Vertical |
| 9848.00 | 32.32 | 38.79 | 14.31 | 25.30 | 60.12 | 74.00 | -13.88 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 35.01 | 32.14 | 8.70 | 24.05 | 51.80 | 74.00 | -22.20 | Horizontal |
| 7386.00 | 37.55 | 36.75 | 11.76 | 26.90 | 59.16 | 74.00 | -14.84 | Horizontal |
| 9848.00 | 32.78 | 38.79 | 14.31 | 25.30 | 60.58 | 74.00 | -13.42 | Horizontal |
| 12310.00 | * | | | | | 74.00 | | Horizontal |
| 14772.00 | * | | | | | 74.00 | | Horizontal |
| 17234.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 4924.00 | 20.63 | 32.14 | 8.70 | 24.05 | 37.42 | 54.00 | -16.58 | Vertical |
| 7386.00 | 22.32 | 36.75 | 11.76 | 26.90 | 43.93 | 54.00 | -10.07 | Vertical |
| 9848.00 | 16.84 | 38.79 | 14.31 | 25.30 | 44.64 | 54.00 | -9.36 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 21.15 | 32.14 | 8.70 | 24.05 | 37.94 | 54.00 | -16.06 | Horizontal |
| 7386.00 | 22.45 | 36.75 | 11.76 | 26.90 | 44.06 | 54.00 | -9.94 | Horizontal |
| 9848.00 | 17.53 | 38.79 | 14.31 | 25.30 | 45.33 | 54.00 | -8.67 | 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.

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| | | | |
|------------|--------------|---------------|--------|
| Test mode: | 802.11n(H20) | Test channel: | Lowest |
|------------|--------------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBUV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBUV/m) | Limit Line (dBUV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4824.00 | 31.99 | 31.28 | 8.62 | 24.17 | 47.72 | 74.00 | -26.28 | Vertical |
| 7236.00 | 34.74 | 35.36 | 11.68 | 26.52 | 55.26 | 74.00 | -18.74 | Vertical |
| 9648.00 | 34.45 | 37.44 | 14.16 | 25.44 | 60.61 | 74.00 | -13.39 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4824.00 | 33.34 | 31.28 | 8.62 | 24.17 | 49.07 | 74.00 | -24.93 | Horizontal |
| 7236.00 | 36.04 | 35.36 | 11.68 | 26.52 | 56.56 | 74.00 | -17.44 | Horizontal |
| 9648.00 | 33.13 | 37.44 | 14.16 | 25.44 | 59.29 | 74.00 | -14.71 | 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) | Preamplifier Factor (dB) | Level (dBUV/m) | Limit Line (dBUV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4824.00 | 18.60 | 31.28 | 8.62 | 24.17 | 34.33 | 54.00 | -19.67 | Vertical |
| 7236.00 | 19.42 | 35.36 | 11.68 | 26.52 | 39.94 | 54.00 | -14.06 | Vertical |
| 9648.00 | 18.97 | 37.44 | 14.16 | 25.44 | 45.13 | 54.00 | -8.87 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4824.00 | 19.48 | 31.28 | 8.62 | 24.17 | 35.21 | 54.00 | -18.79 | Horizontal |
| 7236.00 | 20.94 | 35.36 | 11.68 | 26.52 | 41.46 | 54.00 | -12.54 | Horizontal |
| 9648.00 | 17.88 | 37.44 | 14.16 | 25.44 | 44.04 | 54.00 | -9.96 | 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.*

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| | | | |
|------------|--------------|---------------|--------|
| Test mode: | 802.11n(H20) | Test channel: | Middle |
|------------|--------------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 32.27 | 32.02 | 8.66 | 24.12 | 48.83 | 74.00 | -25.17 | Vertical |
| 7311.00 | 34.67 | 36.64 | 11.71 | 26.71 | 56.31 | 74.00 | -17.69 | Vertical |
| 9748.00 | 31.79 | 38.54 | 14.25 | 25.38 | 59.20 | 74.00 | -14.80 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 33.12 | 32.02 | 8.66 | 24.12 | 49.68 | 74.00 | -24.32 | Horizontal |
| 7311.00 | 34.67 | 36.64 | 11.71 | 26.71 | 56.31 | 74.00 | -17.69 | Horizontal |
| 9748.00 | 31.65 | 38.54 | 14.25 | 25.38 | 59.06 | 74.00 | -14.94 | Horizontal |
| 12185.00 | * | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 18.88 | 32.02 | 8.66 | 24.12 | 35.44 | 54.00 | -18.56 | Vertical |
| 7311.00 | 19.35 | 36.64 | 11.71 | 26.71 | 40.99 | 54.00 | -13.01 | Vertical |
| 9748.00 | 16.31 | 38.54 | 14.25 | 25.38 | 43.72 | 54.00 | -10.28 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 19.26 | 32.02 | 8.66 | 24.12 | 35.82 | 54.00 | -18.18 | Horizontal |
| 7311.00 | 19.57 | 36.64 | 11.71 | 26.71 | 41.21 | 54.00 | -12.79 | Horizontal |
| 9748.00 | 16.40 | 38.54 | 14.25 | 25.38 | 43.81 | 54.00 | -10.19 | 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.

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| | | | |
|------------|--------------|---------------|---------|
| Test mode: | 802.11n(H20) | Test channel: | Highest |
|------------|--------------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4924.00 | 32.73 | 32.14 | 8.70 | 24.05 | 49.52 | 74.00 | -24.48 | Vertical |
| 7386.00 | 36.36 | 36.75 | 11.76 | 26.90 | 57.97 | 74.00 | -16.03 | Vertical |
| 9848.00 | 31.36 | 38.79 | 14.31 | 25.30 | 59.16 | 74.00 | -14.84 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4924.00 | 33.73 | 32.14 | 8.70 | 24.05 | 50.52 | 74.00 | -23.48 | Horizontal |
| 7386.00 | 36.25 | 36.75 | 11.76 | 26.90 | 57.86 | 74.00 | -16.14 | Horizontal |
| 9848.00 | 31.47 | 38.79 | 14.31 | 25.30 | 59.27 | 74.00 | -14.73 | Horizontal |
| 12310.00 | * | | | | | 74.00 | | Horizontal |
| 14772.00 | * | | | | | 74.00 | | Horizontal |
| 17234.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4924.00 | 19.34 | 32.14 | 8.70 | 24.05 | 36.13 | 54.00 | -17.87 | Vertical |
| 7386.00 | 21.04 | 36.75 | 11.76 | 26.90 | 42.65 | 54.00 | -11.35 | Vertical |
| 9848.00 | 15.88 | 38.79 | 14.31 | 25.30 | 43.68 | 54.00 | -10.32 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4924.00 | 19.87 | 32.14 | 8.70 | 24.05 | 36.66 | 54.00 | -17.34 | Horizontal |
| 7386.00 | 21.15 | 36.75 | 11.76 | 26.90 | 42.76 | 54.00 | -11.24 | Horizontal |
| 9848.00 | 16.22 | 38.79 | 14.31 | 25.30 | 44.02 | 54.00 | -9.98 | 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.

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| | | | |
|------------|--------------|---------------|--------|
| Test mode: | 802.11n(H40) | Test channel: | Lowest |
|------------|--------------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4844.00 | 33.10 | 31.40 | 8.63 | 24.04 | 49.09 | 74.00 | -24.91 | Vertical |
| 7266.00 | 35.87 | 35.96 | 11.69 | 26.47 | 57.05 | 74.00 | -16.95 | Vertical |
| 9688.00 | 35.56 | 37.71 | 14.21 | 25.30 | 62.18 | 74.00 | -11.82 | Vertical |
| 12060.00 | * | | | | | 74.00 | | Vertical |
| 14472.00 | * | | | | | 74.00 | | Vertical |
| 16884.00 | * | | | | | 74.00 | | Vertical |
| 4844.00 | 34.44 | 31.40 | 8.63 | 24.04 | 50.43 | 74.00 | -23.57 | Horizontal |
| 7266.00 | 36.77 | 35.96 | 11.69 | 26.47 | 57.95 | 74.00 | -16.05 | Horizontal |
| 9688.00 | 34.21 | 37.71 | 14.21 | 25.30 | 60.83 | 74.00 | -13.17 | 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) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4844.00 | 19.71 | 31.40 | 8.63 | 24.04 | 35.70 | 54.00 | -18.30 | Vertical |
| 7266.00 | 20.55 | 35.96 | 11.69 | 26.47 | 41.73 | 54.00 | -12.27 | Vertical |
| 9688.00 | 20.08 | 37.71 | 14.21 | 25.30 | 46.70 | 54.00 | -7.30 | Vertical |
| 12060.00 | * | | | | | 54.00 | | Vertical |
| 14472.00 | * | | | | | 54.00 | | Vertical |
| 16884.00 | * | | | | | 54.00 | | Vertical |
| 4844.00 | 20.58 | 31.40 | 8.63 | 24.04 | 36.57 | 54.00 | -17.43 | Horizontal |
| 7266.00 | 21.67 | 35.96 | 11.69 | 26.47 | 42.85 | 54.00 | -11.15 | Horizontal |
| 9688.00 | 18.96 | 37.71 | 14.21 | 25.30 | 45.58 | 54.00 | -8.42 | 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.*

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| | | | |
|------------|--------------|---------------|--------|
| Test mode: | 802.11n(H40) | Test channel: | Middle |
|------------|--------------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 33.80 | 32.02 | 8.66 | 24.12 | 50.36 | 74.00 | -23.64 | Vertical |
| 7311.00 | 36.07 | 36.64 | 11.71 | 26.71 | 57.71 | 74.00 | -16.29 | Vertical |
| 9748.00 | 33.35 | 38.54 | 14.25 | 25.38 | 60.76 | 74.00 | -13.24 | Vertical |
| 12185.00 | * | | | | | 74.00 | | Vertical |
| 14622.00 | * | | | | | 74.00 | | Vertical |
| 17059.00 | * | | | | | 74.00 | | Vertical |
| 4874.00 | 34.71 | 32.02 | 8.66 | 24.12 | 51.27 | 74.00 | -22.73 | Horizontal |
| 7311.00 | 36.27 | 36.64 | 11.71 | 26.71 | 57.91 | 74.00 | -16.09 | Horizontal |
| 9748.00 | 33.10 | 38.54 | 14.25 | 25.38 | 60.51 | 74.00 | -13.49 | Horizontal |
| 12185.00 | * | | | | | 74.00 | | Horizontal |
| 14622.00 | * | | | | | 74.00 | | Horizontal |
| 17059.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 20.41 | 32.02 | 8.66 | 24.12 | 36.97 | 54.00 | -17.03 | Vertical |
| 7311.00 | 20.75 | 36.64 | 11.71 | 26.71 | 42.39 | 54.00 | -11.61 | Vertical |
| 9748.00 | 17.87 | 38.54 | 14.25 | 25.38 | 45.28 | 54.00 | -8.72 | Vertical |
| 12185.00 | * | | | | | 54.00 | | Vertical |
| 14622.00 | * | | | | | 54.00 | | Vertical |
| 17059.00 | * | | | | | 54.00 | | Vertical |
| 4874.00 | 20.85 | 32.02 | 8.66 | 24.12 | 37.41 | 54.00 | -16.59 | Horizontal |
| 7311.00 | 21.17 | 36.64 | 11.71 | 26.71 | 42.81 | 54.00 | -11.19 | Horizontal |
| 9748.00 | 17.85 | 38.54 | 14.25 | 25.38 | 45.26 | 54.00 | -8.74 | 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.

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| | | | |
|------------|--------------|---------------|---------|
| Test mode: | 802.11n(H40) | Test channel: | Highest |
|------------|--------------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4904.00 | 34.73 | 32.08 | 8.68 | 23.97 | 51.52 | 74.00 | -22.48 | Vertical |
| 7356.00 | 38.66 | 36.69 | 11.74 | 26.73 | 60.36 | 74.00 | -13.64 | Vertical |
| 9808.00 | 33.64 | 38.60 | 14.29 | 25.22 | 61.31 | 74.00 | -12.69 | Vertical |
| 12310.00 | * | | | | | 74.00 | | Vertical |
| 14772.00 | * | | | | | 74.00 | | Vertical |
| 17234.00 | * | | | | | 74.00 | | Vertical |
| 4904.00 | 35.80 | 32.08 | 8.68 | 23.97 | 52.59 | 74.00 | -21.41 | Horizontal |
| 7356.00 | 38.34 | 36.69 | 11.74 | 26.73 | 60.04 | 74.00 | -13.96 | Horizontal |
| 9808.00 | 34.02 | 38.60 | 14.29 | 25.22 | 61.69 | 74.00 | -12.31 | Horizontal |
| 12310.00 | * | | | | | 74.00 | | Horizontal |
| 14772.00 | * | | | | | 74.00 | | Horizontal |
| 17234.00 | * | | | | | 74.00 | | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 4904.00 | 21.34 | 32.08 | 8.68 | 23.97 | 38.13 | 54.00 | -15.87 | Vertical |
| 7356.00 | 23.34 | 36.69 | 11.74 | 26.73 | 45.04 | 54.00 | -8.96 | Vertical |
| 9808.00 | 18.16 | 38.60 | 14.29 | 25.22 | 45.83 | 54.00 | -8.17 | Vertical |
| 12310.00 | * | | | | | 54.00 | | Vertical |
| 14772.00 | * | | | | | 54.00 | | Vertical |
| 17234.00 | * | | | | | 54.00 | | Vertical |
| 4904.00 | 21.94 | 32.08 | 8.68 | 23.97 | 38.73 | 54.00 | -15.27 | Horizontal |
| 7356.00 | 23.24 | 36.69 | 11.74 | 26.73 | 44.94 | 54.00 | -9.06 | Horizontal |
| 9808.00 | 18.77 | 38.60 | 14.29 | 25.22 | 46.44 | 54.00 | -7.56 | Horizontal |
| 12310.00 | * | | | | | 54.00 | | Horizontal |
| 14772.00 | * | | | | | 54.00 | | Horizontal |
| 17234.00 | * | | | | | 54.00 | | Horizontal |

Remark:

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

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