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Report No.: FCC11-RTE092802  
Page 1 of 61

## FCC REPORT

**Applicant:** Archos SA

**Address of Applicant:** 12 Rue Ampere Igny France 91430

### Equipment Under Test (EUT)

**Product Name:** A80H

**Model No.:** 9081

**Trade mark:** Archos

**FCC ID:** SOV9081

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.247:2010

**Date of sample receipt:** Aug. 26, 2011

**Date of Test:** Aug. 29- Sep. 27, 2011

**Date of report issued:** Sep. 28, 2011

**Test Result :** Pass \*

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

Authorized Signature:



Kavin 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.

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## 2 Version

| Version No. | Date          | Description |
|-------------|---------------|-------------|
| 00          | Sep. 28, 2011 | Original    |
|             |               |             |
|             |               |             |
|             |               |             |
|             |               |             |

Prepared By:

*Collin. He*

Date:

Sep. 28, 2011

*Project Engineer*

Check By:

*Hans. Hu*

Date:

Sep. 28, 2011

*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   |
| 6dB Occupied Bandwidth           | 15.247 (a)(2)     | Pass   |
| Power Spectral Density           | 15.247 (e)        | Pass   |
| Band Edge                        | 15.247(d)         | Pass   |
| Spurious Emission                | 15.205/15.209     | Pass   |

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

## 5 General Information

### 5.1 Client Information

|                          |  |
|--------------------------|--|
| Applicant:               | Archos SA  |
| Address of Applicant:    | 12 Rue Ampere Igny France 91430                          |
| Manufacturer:            | Archos SA  |
| Address of Manufacturer: | 12 Rue Ampere Igny France 91430                          |
| Factory:                 | Excelsior Electronics                                    |
| Address of Factory:      | Sam Tuen Management Zone, Houjie, Dongguan Guangdong PRC |

### 5.2 General Description of E.U.T.

|  |  |
|--|--|
| Product Name:                                    | A80H   |
| Model No.:                                       | 9081   |
| Trade mark:                                      | Archos   |
| Operation Frequency:                             | 2412MHz~2462MHz (802.11b/802.11g/802.11n(H20))                                   |
| Channel numbers:                                 | 11 for 802.11b/802.11g/802.11(H20)   |
| Channel separation:                              | 5MHz   |
| Modulation technology:<br>(IEEE 802.11b)         | Direct Sequence Spread Spectrum (DSSS)   |
| Modulation technology:<br>(IEEE 802.11g/802.11n) | Orthogonal Frequency Division Multiplexing(OFDM)                                 |
| Data speed (IEEE 802.11b):                       | 1Mbps, 2Mbps, 5.5Mbps, 11Mbps  |
| Data speed (IEEE 802.11g):                       | 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps                     |
| Data speed (IEEE 802.11n):                       | Up to 150Mbps  |
| Antenna Type:                                    | Integral   |
| Antenna gain:                                    | 2dBi (declare by Applicant)  |
| Power supply:                                    | Model:MD-TRC0620DC<br>Input: AC 100-240V 0.3A(MAX)50/60Hz<br>Output: DC 5.0V1.5A |

**Operation Frequency each of channel**

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 1       | 2412MHz   | 5       | 2432MHz   | 9       | 2452MHz   |
| 2       | 2417MHz   | 6       | 2437MHz   | 10      | 2457MHz   |
| 3       | 2422MHz   | 7       | 2442MHz   | 11      | 2462MHz   |
| 4       | 2427MHz   | 8       | 2447MHz   |         |           |

**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   |

### 5.3 Test environment and mode

| <b>Operating Environment:</b> |   |
|-------------------------------|---|
| Temperature:                  | 24.0 °C   |
| Humidity:                     | 54 % RH   |
| Atmospheric Pressure:         | 1010 mbar                                       |
| <b>Test mode:</b>             |   |
| Transmitting mode             | Keep the EUT in transmitting continuously mode. |

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   |

**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)

### 5.4 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 fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in 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

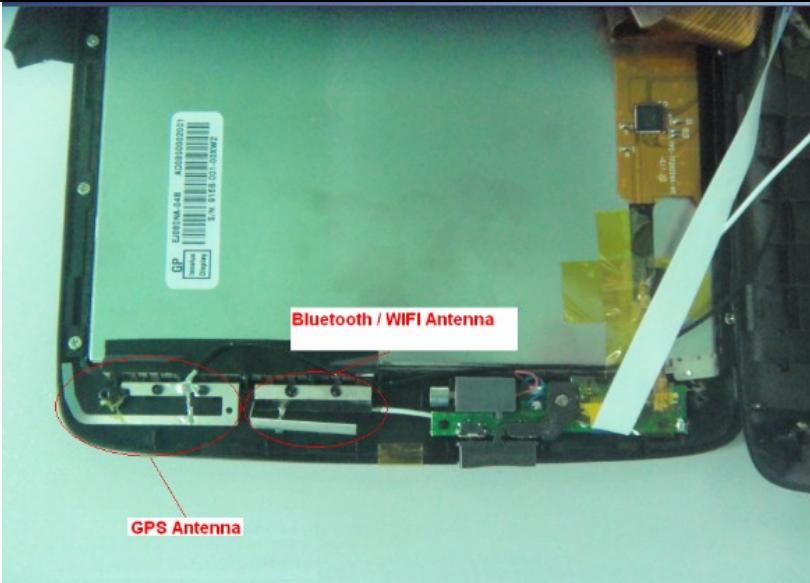
## 5.6 Test Instruments list

| 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. 30 2011        | Mar. 29 2012            |
| 2                  | Control Room                  | ZhongYu Electron            | 6.2(L)*2.5(W)* 2.4(H)       | GTS251        | N/A                 | N/A                     |
| 3                  | EMI Test Receiver             | Rohde & Schwarz             | ESU26                       | GTS203        | Jul. 04 2011        | Jul. 03 2012            |
| 4                  | BiConiLog Antenna             | SCHWARZBECK MESS-ELEKTRONIK | VULB9163                    | GTS214        | Feb. 26 2011        | Feb. 25 2012            |
| 5                  | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | 9120D-829                   | GTS208        | June 30 2011        | June 29 2012            |
| 6                  | Horn Antenna                  | ETS-LINDGREN                | 3160                        | GTS217        | Mar. 30 2011        | Mar. 29 2012            |
| 7                  | EMI Test Software             | AUDIX                       | E3                          | N/A           | N/A                 | N/A                     |
| 8                  | Coaxial Cable                 | GTS                         | N/A                         | GTS213        | Apr. 01 2011        | Mar. 31 2012            |
| 9                  | Coaxial Cable                 | GTS                         | N/A                         | GTS211        | Apr. 01 2011        | Mar. 31 2012            |
| 9                  | Coaxial cable                 | GTS                         | N/A                         | GTS210        | Apr. 01 2011        | Mar. 31 2012            |
| 11                 | Coaxial Cable                 | GTS                         | N/A                         | GTS212        | Apr. 01 2011        | Mar. 31 2012            |
| 12                 | Amplifier(100kHz-3GHz)        | HP                          | 8347A                       | GTS204        | Jul. 04 2011        | Jul. 03 2012            |
| 13                 | Amplifier(2GHz-20GHz)         | HP                          | 8349B                       | GTS206        | Jul. 04 2011        | Jul. 03 2012            |
| 14                 | Pre-amplifier (18-26GHz)      | Rohde & Schwarz             | AFS33-18002<br>650-30-8P-44 | GTS218        | June 30 2011        | June 29 2012            |
| 15                 | Band filter                   | Amindeon                    | 82346                       | GTS219        | June 30 2011        | June 29 2012            |

| 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) | GTS252        | Jul. 04 2011        | Jul. 03 2012            |
| 2                   | EMI Test Receiver | Rohde & Schwarz             | ESCS30               | GTS223        | Jul. 04 2011        | Jul. 03 2012            |
| 3                   | 10dB Pulse Limita | Rohde & Schwarz             | N/A                  | GTS224        | Jul. 04 2011        | Jul. 03 2012            |
| 4                   | LISN              | SCHWARZBECK MESS-ELEKTRONIK | NSLK 8127            | GTS226        | Jul. 04 2011        | Jul. 03 2012            |
| 5                   | Coaxial Cable     | GTS                         | N/A                  | GTS227        | Apr. 01 2011        | Mar. 31 2012            |
| 6                   | EMI Test Software | AUDIX                       | E3                   | N/A           | N/A                 | N/A                     |

## 6 Test results and Measurement Data

### 6.1 Antenna requirement:

| Standard requirement:  | FCC Part15 C Section 15.203 /247(c)   |
|--|---|
|  | <p><b>15.203 requirement:</b><br/><i>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.</i></p> |
|  | <p><b>15.247(c) (1)(i) requirement:</b><br/><i>(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.</i></p>  |
| E.U.T Antenna:   |   |
| <p><i>The antenna port is an integral antenna inside EUT, the best case gain of the antenna is 2.0dBi.</i></p> |   |
|                             |   |

## 6.2 Conducted Emissions

|                              |                             |              |           |
|------------------------------|-----------------------------|--------------|-----------|
| <b>Test Requirement:</b>     | FCC Part15 C Section 15.207 |              |           |
| <b>Test Method:</b>          | ANSI C63.4: 2003            |              |           |
| <b>Test Frequency Range:</b> | 150KHz to 30MHz             |              |           |
| <b>Class / Severity:</b>     | Class B                     |              |           |
| <b>Receiver setup:</b>       | RBW=9KHz, VBW=30KHz         |              |           |
| <b>Limit:</b>                | 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        |

\* Decreases with the logarithm of the frequency.

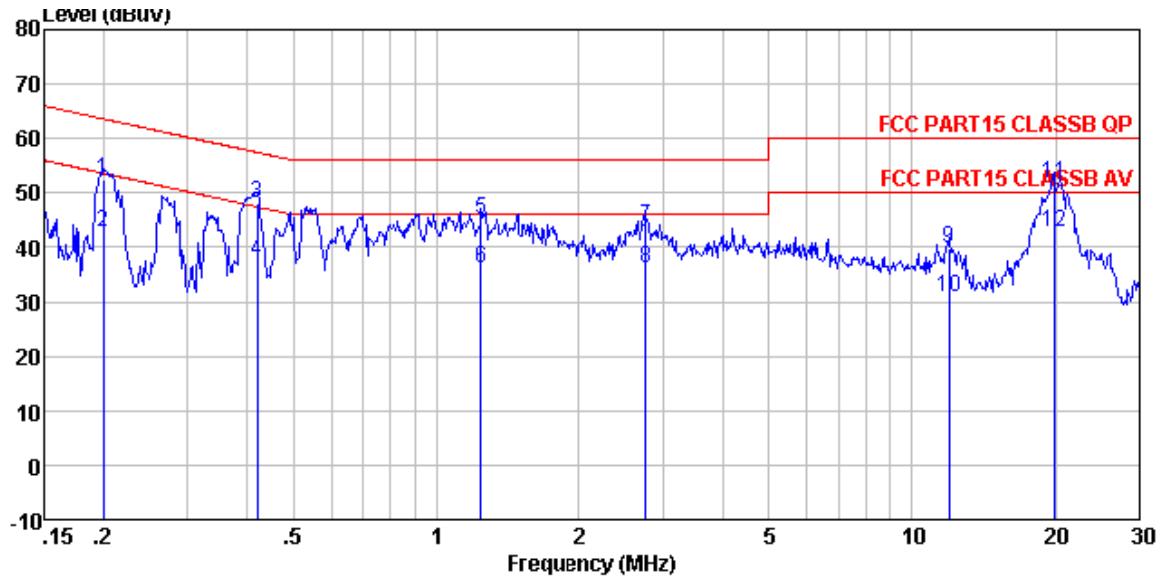
| **Test procedure** | The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement. |  |  |
| **Test setup:** | *Remark:*  *E.U.T: Equipment Under Test*  *LISN: Line Impedance Stabilization Network*  *Test table height=0.8m* |  |  |
| **Test Instruments:** | Refer to section 5.6 for details |  |  |
| **Test mode:** | Refer to section 5.3 for details |  |  |
| **Test results:** | Pass |  |  |

### Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

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Line:



Condition : FCC PART15 CLASSB QP LISN(2011) LINE

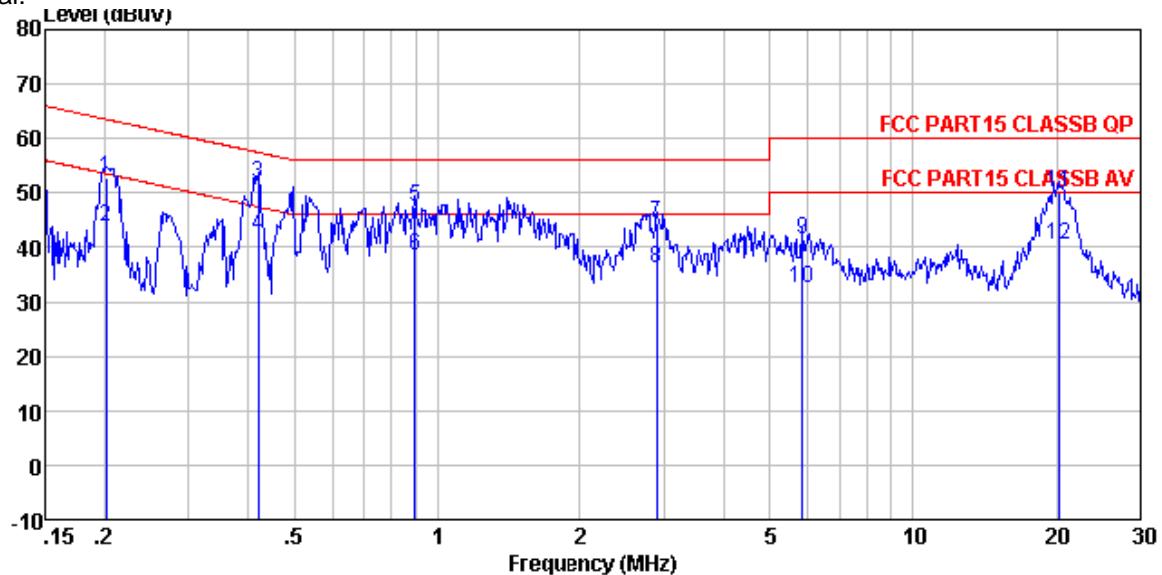
Job No. : 732IT

Test Mode : WIFI mode

Test Engineer: Collin

| Freq | Read   | LISN  | Cable  | Limit | Over  | Remark |                |
|------|--------|-------|--------|-------|-------|--------|----------------|
|      | MHz    | Level | Factor |       |       |        |                |
|      | dBuV   | dB    | dB     | dBuV  | dBuV  | dB     |                |
| 1    | 0.200  | 51.79 | 0.66   | 0.10  | 52.55 | 63.62  | -11.07 QP      |
| 2    | 0.200  | 42.07 | 0.66   | 0.10  | 42.83 | 53.62  | -10.79 Average |
| 3    | 0.419  | 47.59 | 0.57   | 0.10  | 48.26 | 57.46  | -9.20 QP       |
| 4    | 0.419  | 36.82 | 0.57   | 0.10  | 37.49 | 47.46  | -9.97 Average  |
| 5    | 1.236  | 44.43 | 0.45   | 0.10  | 44.98 | 56.00  | -11.02 QP      |
| 6    | 1.236  | 35.58 | 0.45   | 0.10  | 36.13 | 46.00  | -9.87 Average  |
| 7    | 2.765  | 43.32 | 0.36   | 0.10  | 43.78 | 56.00  | -12.22 QP      |
| 8    | 2.765  | 35.66 | 0.36   | 0.10  | 36.12 | 46.00  | -9.88 Average  |
| 9    | 11.933 | 39.56 | 0.20   | 0.20  | 39.96 | 60.00  | -20.04 QP      |
| 10   | 11.933 | 30.49 | 0.20   | 0.20  | 30.89 | 50.00  | -19.11 Average |
| 11   | 19.845 | 51.27 | 0.15   | 0.21  | 51.63 | 60.00  | -8.37 QP       |
| 12   | 19.845 | 42.55 | 0.15   | 0.21  | 42.91 | 50.00  | -7.09 Average  |

Neutral:



Condition : FCC PART15 CLASSB QP LISN(2011) NEUTRAL

Job No. : 732IT

Test Mode : WIFI mode

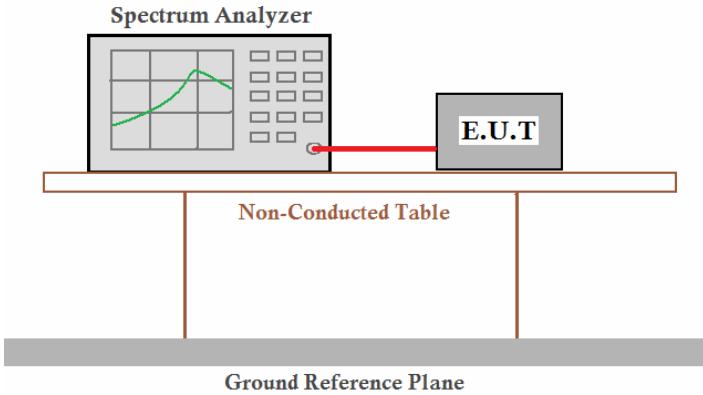
Test Engineer: Collin

| Freq | Read   | LISN  | Cable  | Limit | Over  | Remark |                |
|------|--------|-------|--------|-------|-------|--------|----------------|
|      | MHz    | Level | Factor | Loss  | Level | Line   | Limit          |
| 1    | 0.202  | 52.12 | 0.66   | 0.10  | 52.88 | 63.54  | -10.66 QP      |
| 2    | 0.202  | 43.19 | 0.66   | 0.10  | 43.95 | 53.54  | -9.59 Average  |
| 3    | 0.419  | 51.01 | 0.57   | 0.10  | 51.68 | 57.46  | -5.78 QP       |
| 4    | 0.419  | 41.62 | 0.57   | 0.10  | 42.29 | 47.46  | -5.17 Average  |
| 5    | 0.894  | 46.85 | 0.49   | 0.10  | 47.44 | 56.00  | -8.56 QP       |
| 6    | 0.894  | 37.91 | 0.49   | 0.10  | 38.50 | 46.00  | -7.50 Average  |
| 7    | 2.900  | 44.12 | 0.36   | 0.10  | 44.58 | 56.00  | -11.42 QP      |
| 8    | 2.900  | 35.68 | 0.36   | 0.10  | 36.14 | 46.00  | -9.86 Average  |
| 9    | 5.867  | 41.02 | 0.28   | 0.11  | 41.41 | 60.00  | -18.59 QP      |
| 10   | 5.867  | 32.19 | 0.28   | 0.11  | 32.58 | 50.00  | -17.42 Average |
| 11   | 20.162 | 49.75 | 0.14   | 0.21  | 50.10 | 60.00  | -9.90 QP       |
| 12   | 20.162 | 40.19 | 0.14   | 0.21  | 40.54 | 50.00  | -9.46 Average  |

## Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

### 6.3 Conducted Peak Output Power

|                          |   |
|--------------------------|---|
| <b>Test Requirement:</b> | FCC Part15 C Section 15.247 (b)(3)  |
| <b>Test Method:</b>      | ANSI C63.4:2009 and KDB558074   |
| <b>Limit:</b>            | 30dBm   |
| <b>Test setup:</b>       |  |
| <b>Test Instruments:</b> | Refer to section 5.6 for details  |
| <b>Test mode:</b>        | Refer to section 5.3 for details  |
| <b>Test results:</b>     | Pass  |

**Measurement Data**

| 802.11b mode |                         |             |        |
|--------------|-------------------------|-------------|--------|
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest       | 10.25                   | 30.00       | Pass   |
| Middle       | 10.37                   | 30.00       | Pass   |
| Highest      | 10.42                   | 30.00       | Pass   |

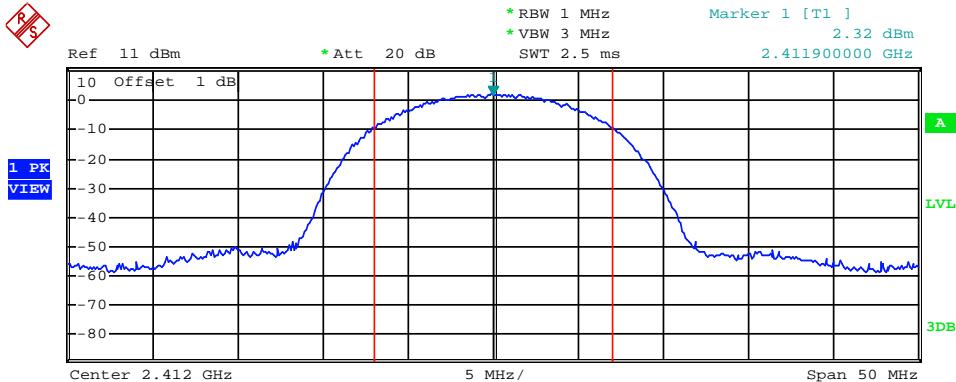
| 802.11g mode |                         |             |        |
|--------------|-------------------------|-------------|--------|
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest       | 10.33                   | 30.00       | Pass   |
| Middle       | 10.55                   | 30.00       | Pass   |
| Highest      | 10.76                   | 30.00       | Pass   |

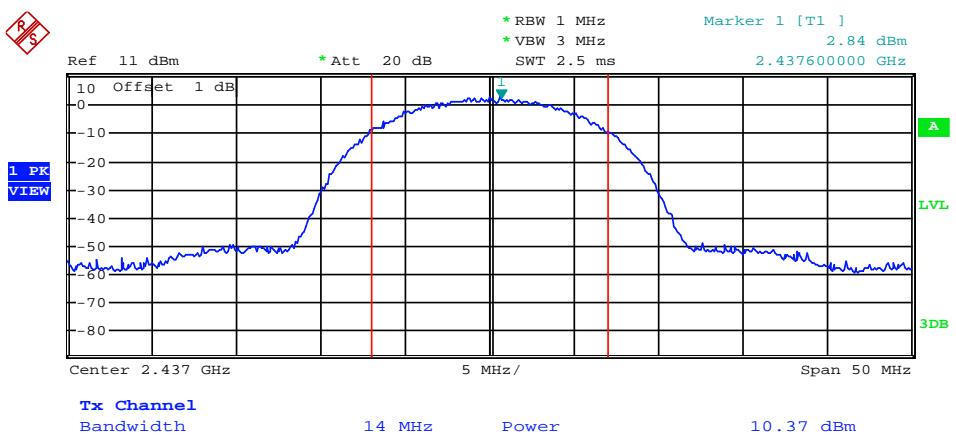
| 802.11n-H20 mode |                         |             |        |
|------------------|-------------------------|-------------|--------|
| Test channel     | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest           | 8.18                    | 30.00       | Pass   |
| Middle           | 8.33                    | 30.00       | Pass   |
| Highest          | 8.21                    | 30.00       | Pass   |

**Test plot as follows:**

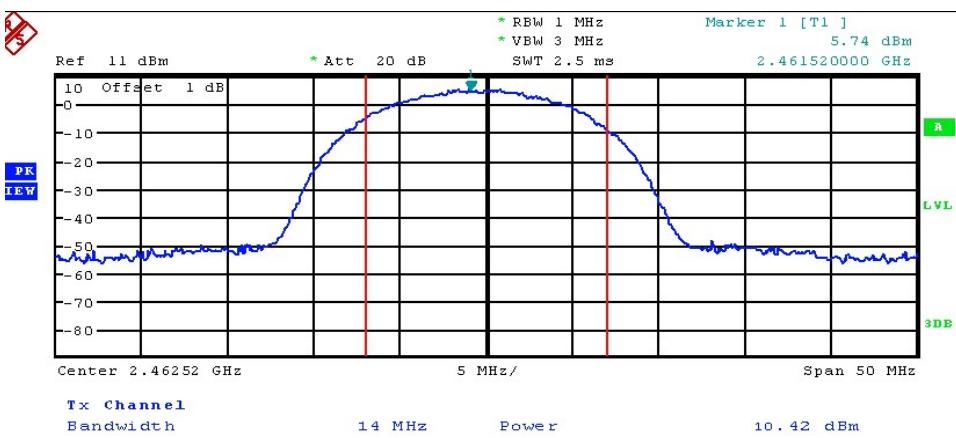
|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Lowest |
|------------|---------|---------------|--------|



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

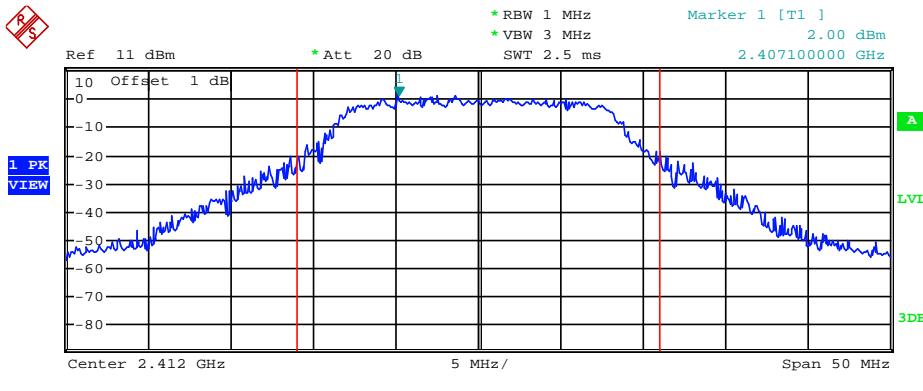


|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|

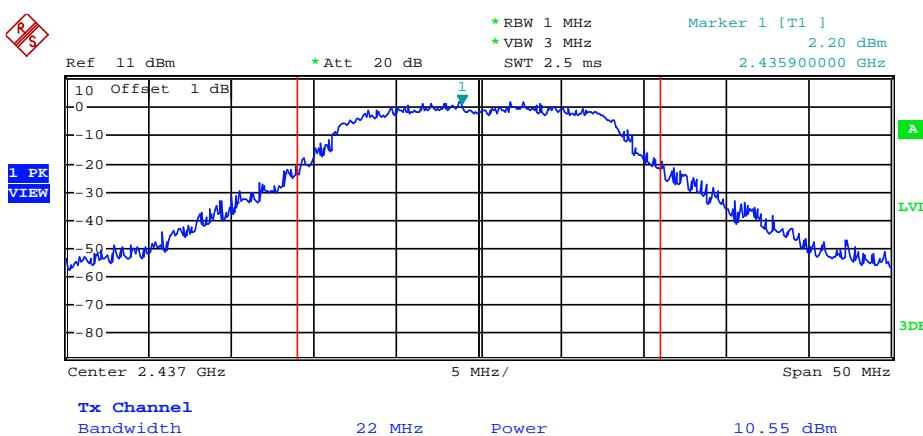


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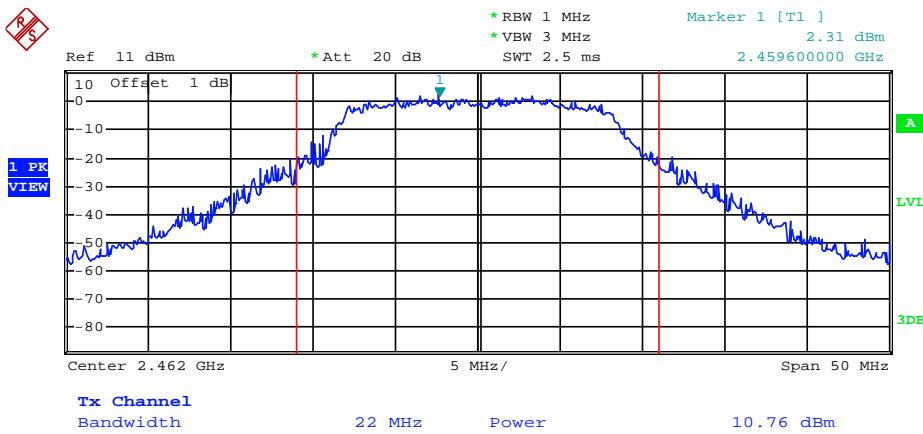
|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Lowest |
|------------|---------|---------------|--------|



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

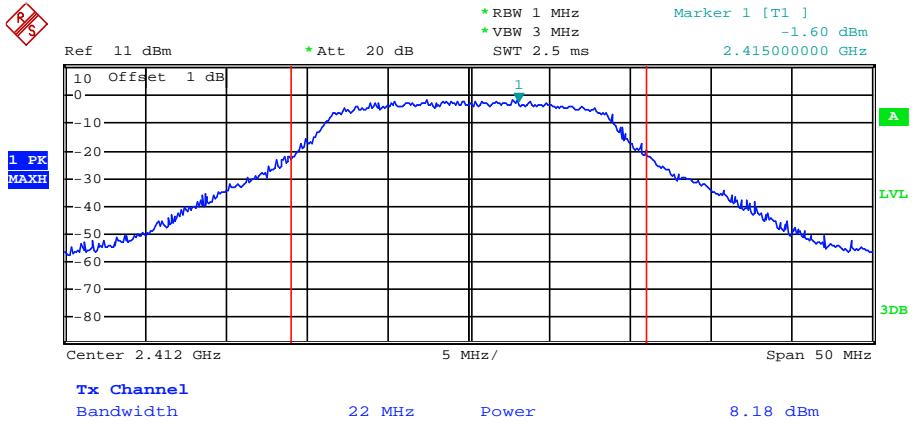


|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|

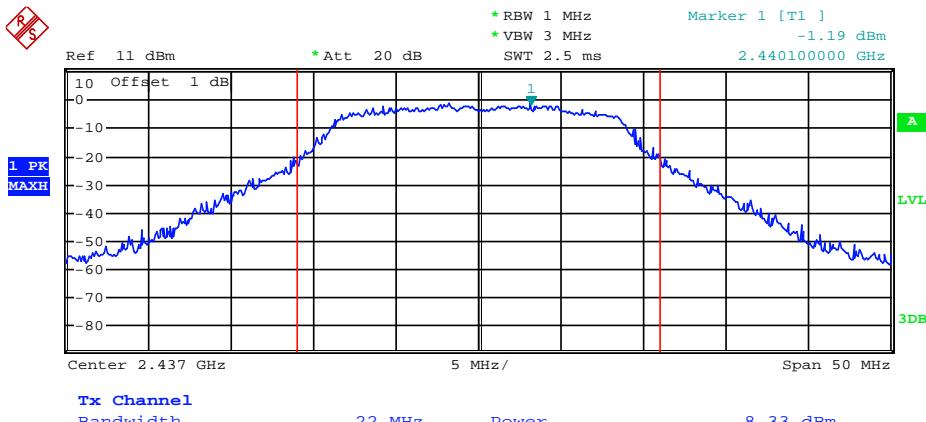


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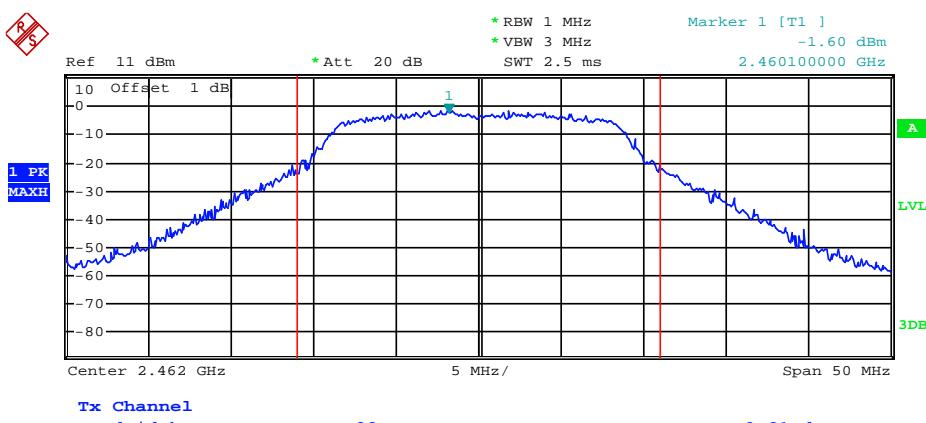
|            |              |               |        |
|------------|--------------|---------------|--------|
| Test mode: | 802.11n(H20) | Test channel: | Lowest |
|------------|--------------|---------------|--------|



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

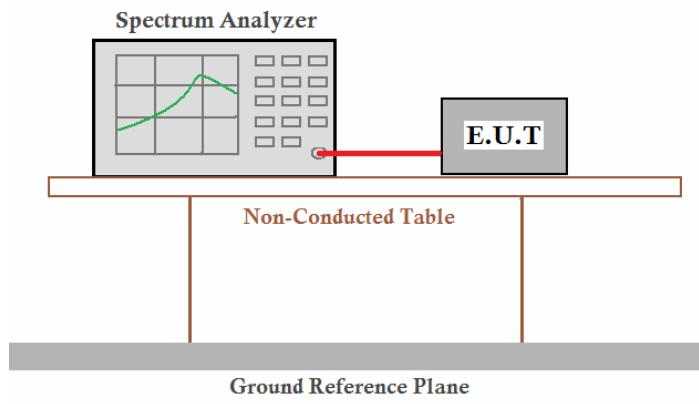


|            |              |               |         |
|------------|--------------|---------------|---------|
| Test mode: | 802.11n(H20) | Test channel: | Highest |
|------------|--------------|---------------|---------|



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## 6.4 6dB Occupy Bandwidth

|                          |   |
|--------------------------|---|
| <b>Test Requirement:</b> | FCC Part15 C Section 15.247 (a)(2)  |
| <b>Test Method:</b>      | ANSI C63.4:2009 and KDB558074   |
| <b>Limit:</b>            | >500KHz   |
| <b>Test setup:</b>       |  |
| <b>Test Instruments:</b> | Refer to section 5.6 for details  |
| <b>Test mode:</b>        | Refer to section 5.3 for details  |
| <b>Test results:</b>     | Pass  |

**Measurement Data**

| 802.11b mode |                            |             |        |
|--------------|----------------------------|-------------|--------|
| Test channel | 6dB Occupy Bandwidth (MHz) | Limit (KHz) | Result |
| Lowest       | 9.92                       | >500        | Pass   |
| Middle       | 10.12                      | >500        | Pass   |
| Highest      | 10.12                      | >500        | Pass   |

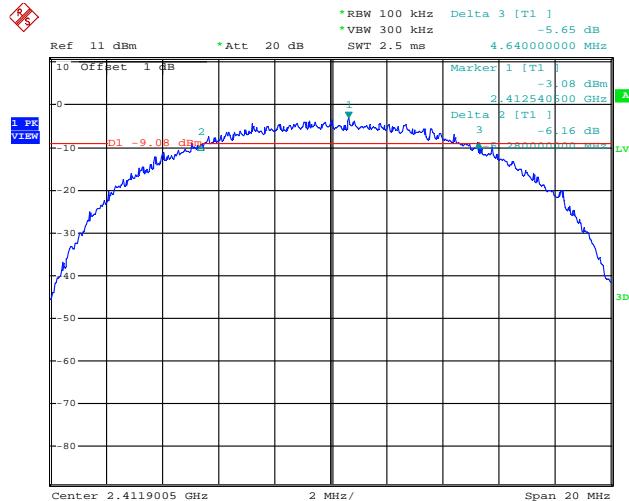
| 802.11g mode |                            |             |        |
|--------------|----------------------------|-------------|--------|
| Test channel | 6dB Occupy Bandwidth (MHz) | Limit (KHz) | Result |
| Lowest       | 16.40                      | >500        | Pass   |
| Middle       | 16.00                      | >500        | Pass   |
| Highest      | 16.32                      | >500        | Pass   |

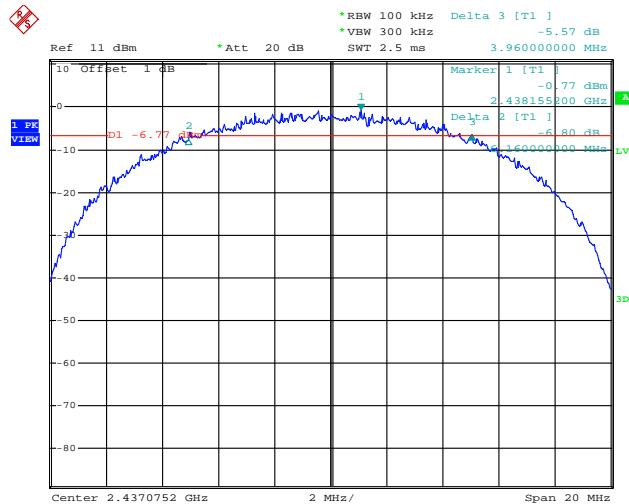
| 802.11n-H20 mode |                            |             |        |
|------------------|----------------------------|-------------|--------|
| Test channel     | 6dB Occupy Bandwidth (MHz) | Limit (KHz) | Result |
| Lowest           | 17.52                      | >500        | Pass   |
| Middle           | 16.04                      | >500        | Pass   |
| Highest          | 16.64                      | >500        | Pass   |

**Test plot as follows:**

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

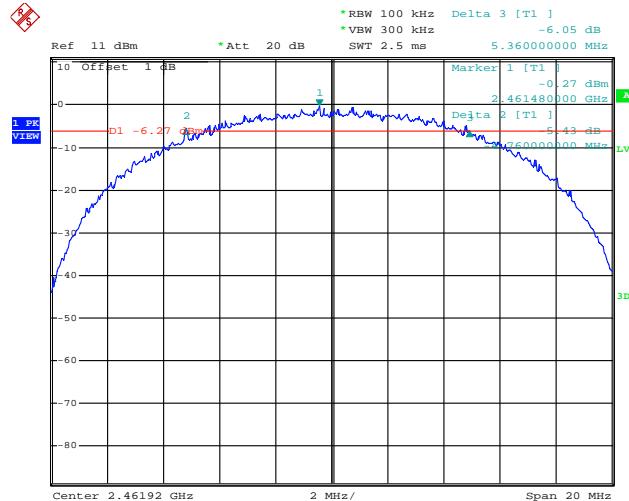


|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Middle |
|------------|---------|---------------|--------|

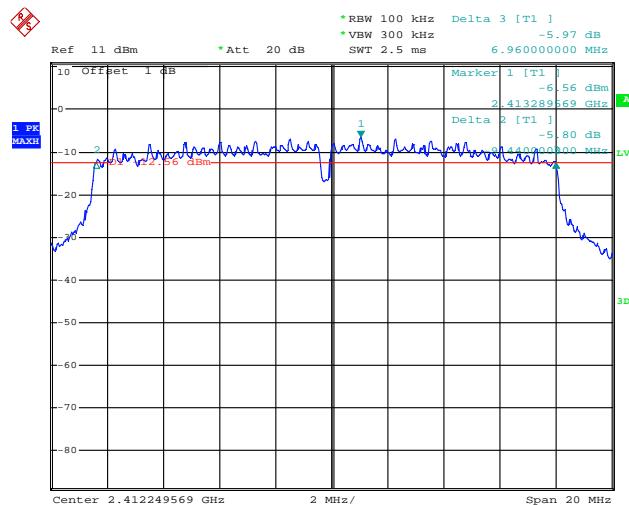


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|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|

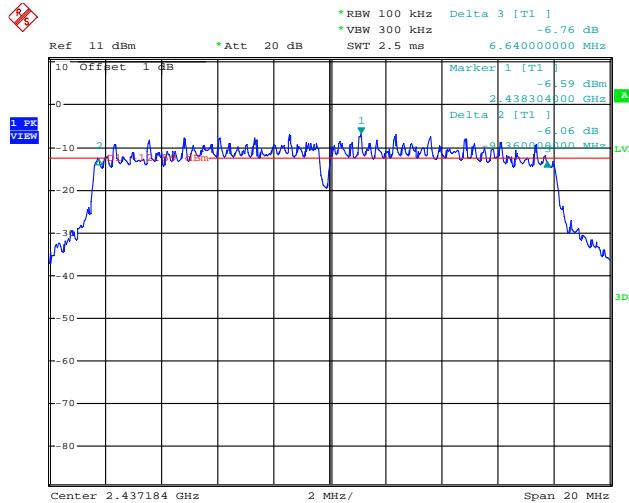


|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Lowest |
|------------|---------|---------------|--------|

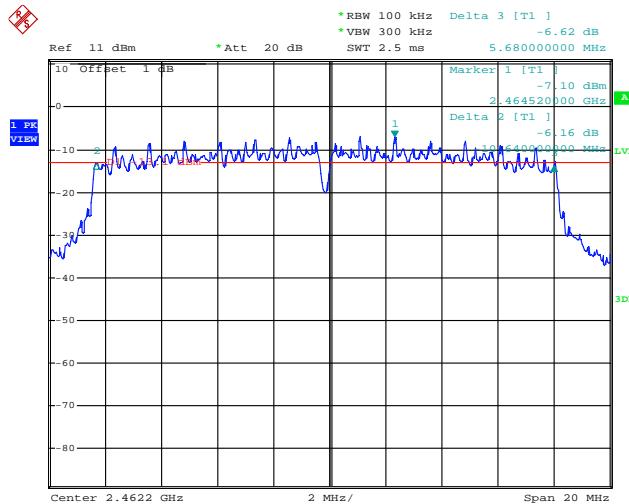


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|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Middle |
|------------|---------|---------------|--------|

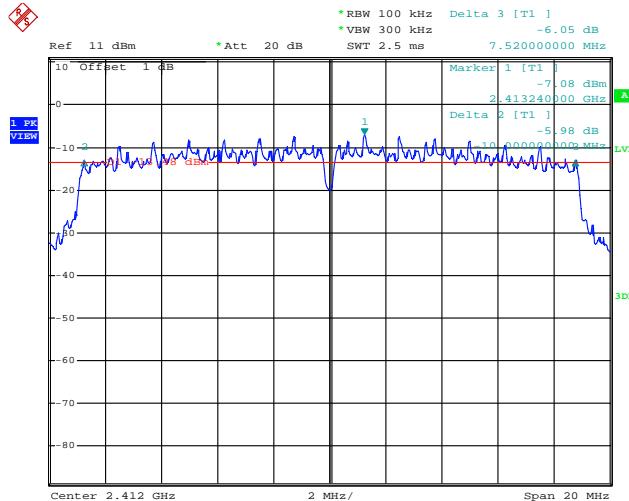


|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|

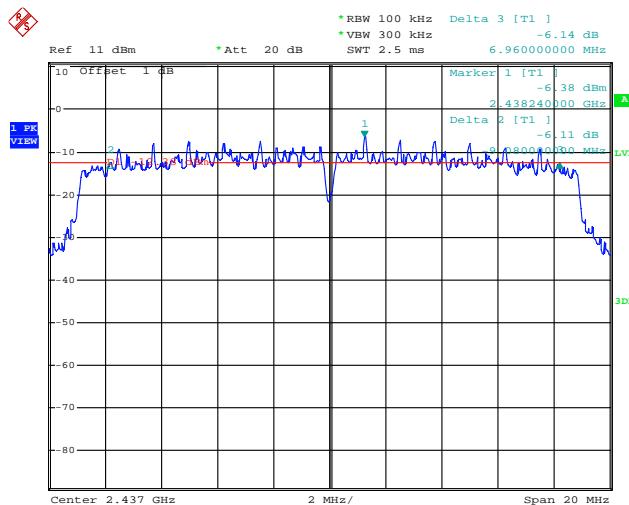


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|            |             |               |        |
|------------|-------------|---------------|--------|
| Test mode: | 802.11n-H20 | Test channel: | Lowest |
|------------|-------------|---------------|--------|

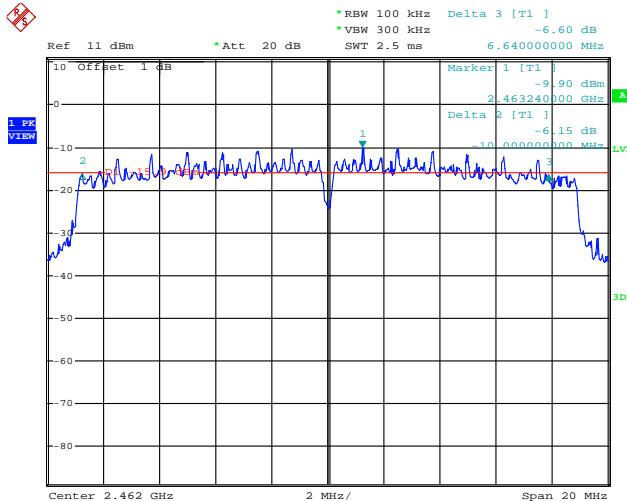


|            |             |               |        |
|------------|-------------|---------------|--------|
| Test mode: | 802.11n-H20 | Test channel: | Middle |
|------------|-------------|---------------|--------|



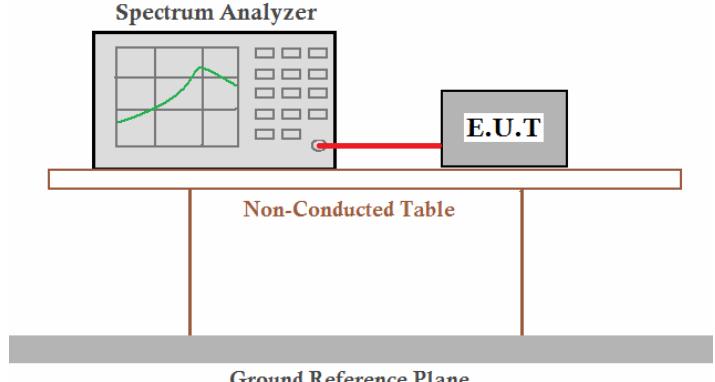
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|            |             |               |         |
|------------|-------------|---------------|---------|
| Test mode: | 802.11n-H20 | Test channel: | Highest |
|------------|-------------|---------------|---------|



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## 6.5 Power Spectral Density

|                          |  |
|--------------------------|--|
| <b>Test Requirement:</b> | FCC Part15 C Section 15.247 (e)  |
| <b>Test Method:</b>      | ANSI C63.4:2009 and KDB558074  |
| <b>Limit:</b>            | 8dBm   |
| <b>Test setup:</b>       |  |
| <b>Test Instruments:</b> | Refer to section 5.6 for details   |
| <b>Test mode:</b>        | Refer to section 5.3 for details   |
| <b>Test results:</b>     | Pass   |

**Measurement Data**

| 802.11b mode |                              |             |        |
|--------------|------------------------------|-------------|--------|
| Test channel | Power Spectral Density (dBm) | Limit (dBm) | Result |
| Lowest       | -16.00                       | 8.00        | Pass   |
| Middle       | -14.79                       | 8.00        | Pass   |
| Highest      | -15.85                       | 8.00        | Pass   |

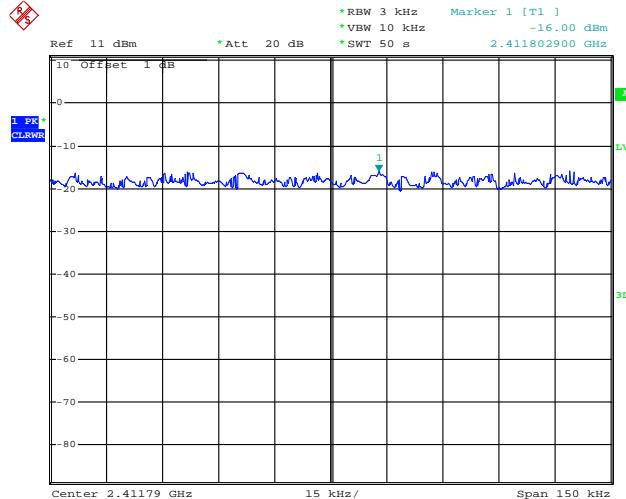
| 802.11g mode |                              |             |        |
|--------------|------------------------------|-------------|--------|
| Test channel | Power Spectral Density (dBm) | Limit (dBm) | Result |
| Lowest       | -21.73                       | 8.00        | Pass   |
| Middle       | -22.19                       | 8.00        | Pass   |
| Highest      | -21.71                       | 8.00        | Pass   |

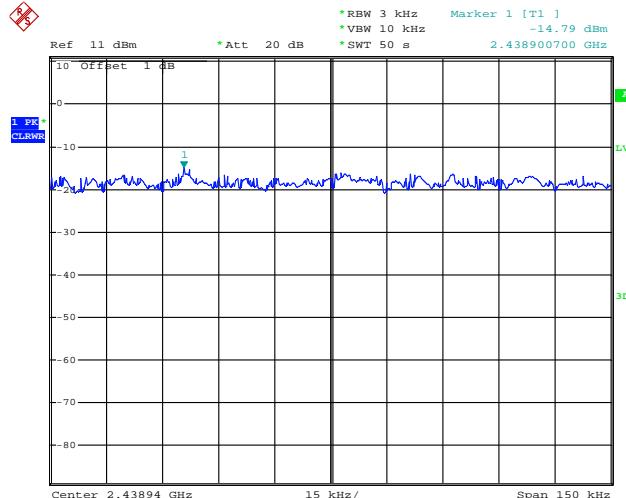
| 802.11n-H20 mode |                              |             |        |
|------------------|------------------------------|-------------|--------|
| Test channel     | Power Spectral Density (dBm) | Limit (dBm) | Result |
| Lowest           | -23.94                       | 8.00        | Pass   |
| Middle           | -24.19                       | 8.00        | Pass   |
| Highest          | -26.90                       | 8.00        | Pass   |

**Test plot as follows:**

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

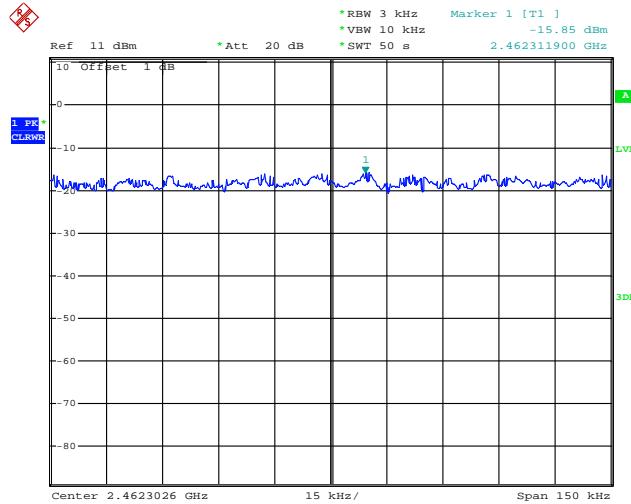


|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Middle |
|------------|---------|---------------|--------|

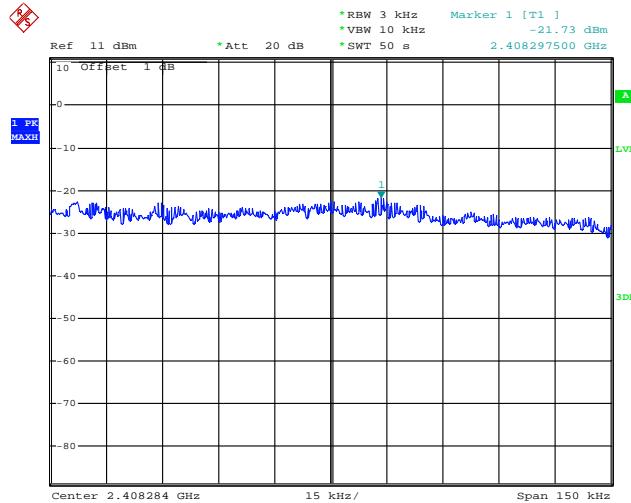


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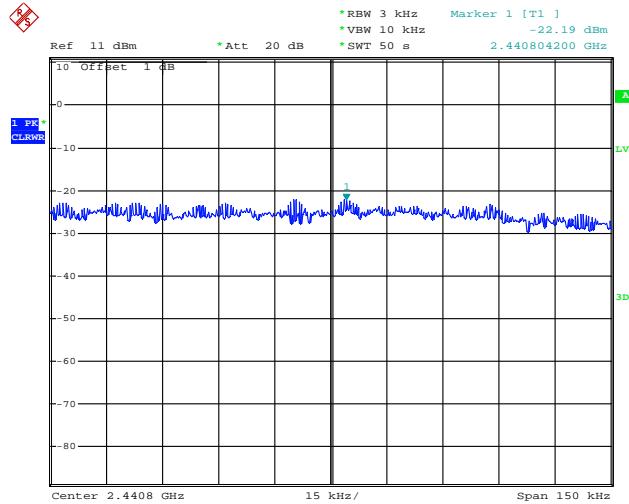
|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|



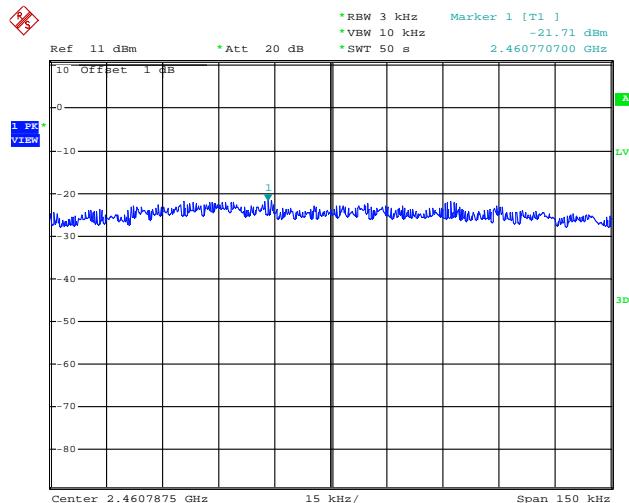
|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Lowest |
|------------|---------|---------------|--------|



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

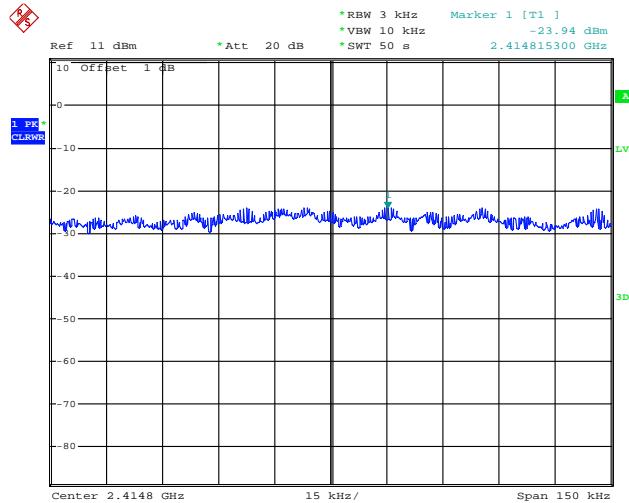


|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|

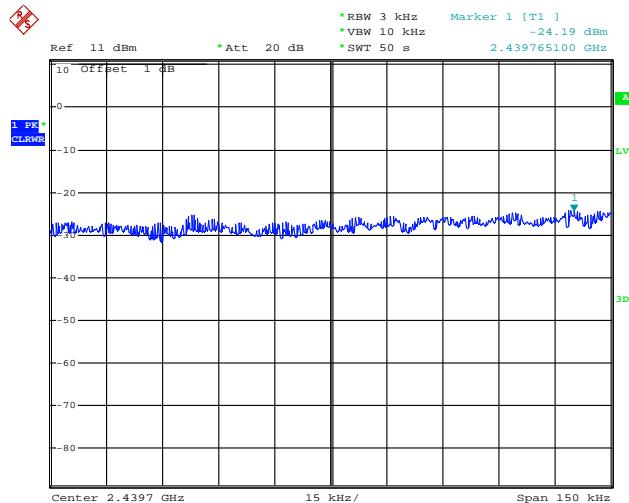


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|            |             |               |        |
|------------|-------------|---------------|--------|
| Test mode: | 802.11n-H20 | Test channel: | Lowest |
|------------|-------------|---------------|--------|

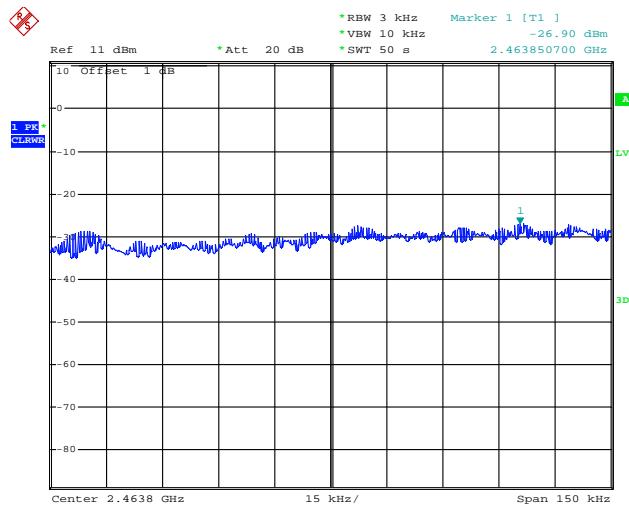


|            |             |               |        |
|------------|-------------|---------------|--------|
| Test mode: | 802.11n-H20 | Test channel: | Middle |
|------------|-------------|---------------|--------|



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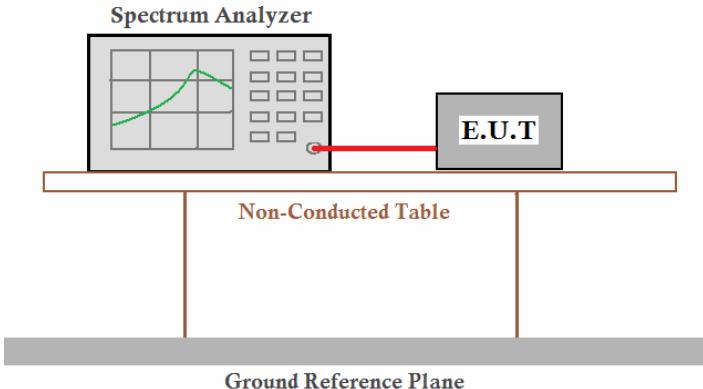
|            |             |               |         |
|------------|-------------|---------------|---------|
| Test mode: | 802.11n-H20 | Test channel: | Highest |
|------------|-------------|---------------|---------|



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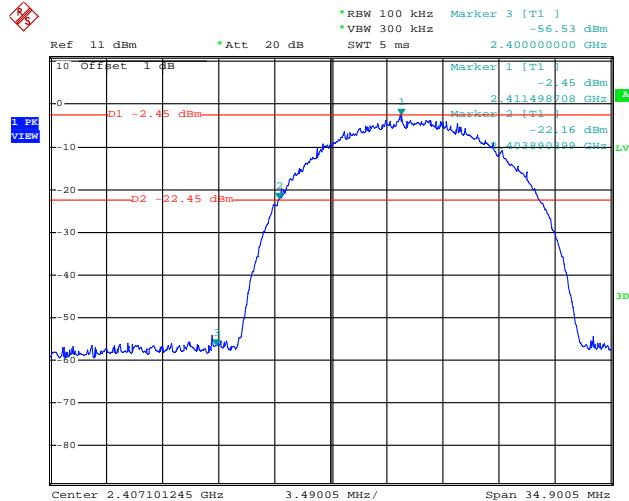
## 6.6 Band Edge

### 6.6.1 Conducted Emission Method

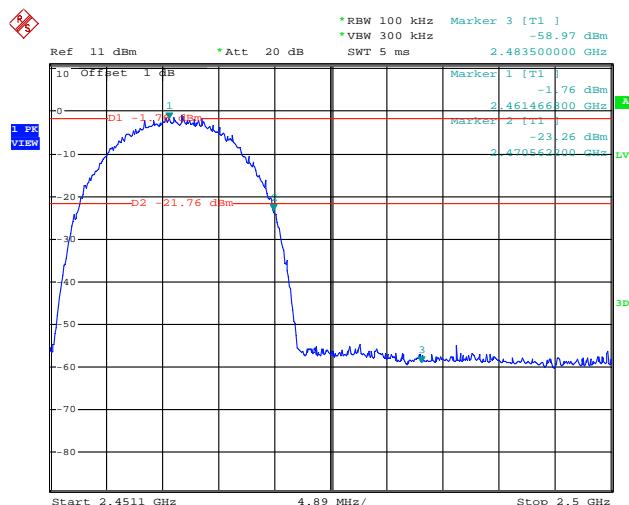
|                          |   |
|--------------------------|---|
| <b>Test Requirement:</b> | FCC Part15 C Section 15.247 (d)   |
| <b>Test Method:</b>      | ANSI C63.4:2009 and KDB558074   |
| <b>Limit:</b>            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. |
| <b>Test setup:</b>       |    |
| <b>Test Instruments:</b> | Refer to section 5.6 for details  |
| <b>Test mode:</b>        | Refer to section 5.3 for details  |
| <b>Test results:</b>     | Pass  |

**Test plot as follows:**

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

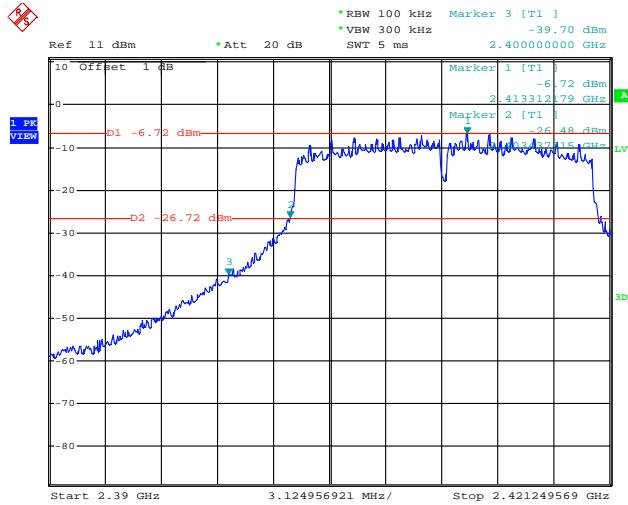


|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|

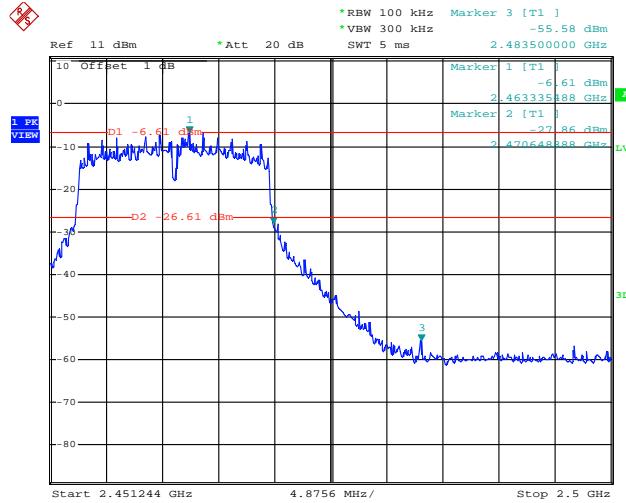


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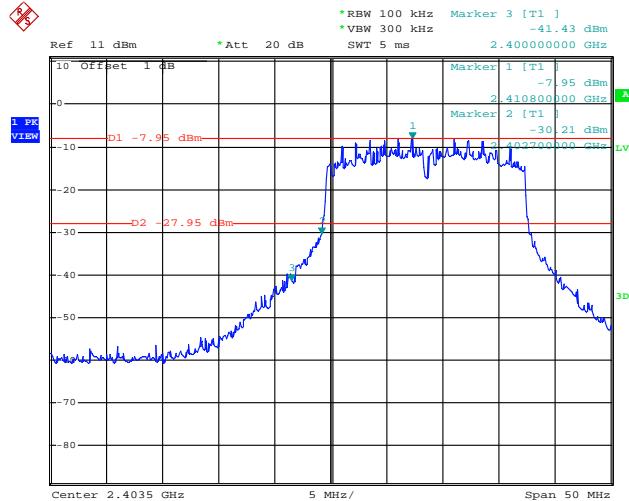
|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Lowest |
|------------|---------|---------------|--------|



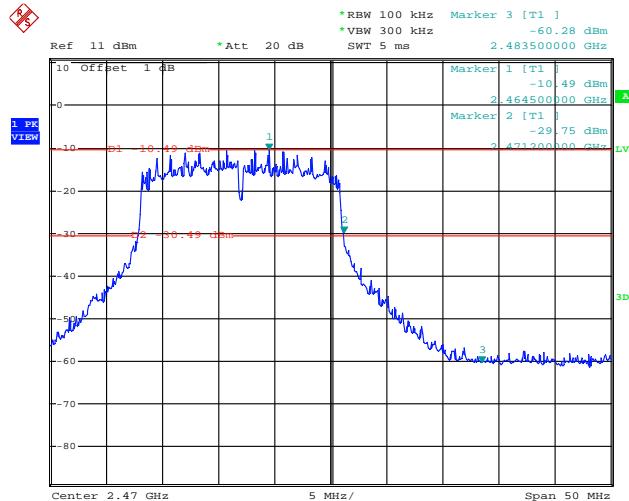
|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|



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



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



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### 6.6.2 Radiated Emission Method

| <b>Test Requirement:</b>     | FCC Part15 C Section 15.209 and 15.205  |               |      |               |  |           |                    |        |            |        |               |      |      |            |            |  |         |      |      |               |
|------------------------------|---|---------------|------|---------------|--|-----------|--------------------|--------|------------|--------|---------------|------|------|------------|------------|--|---------|------|------|---------------|
| <b>Test Method:</b>          | ANSI C63.4: 2003  |               |      |               |  |           |                    |        |            |        |               |      |      |            |            |  |         |      |      |               |
| <b>Test Frequency Range:</b> | 2.3GHz to 2.5GHz  |               |      |               |  |           |                    |        |            |        |               |      |      |            |            |  |         |      |      |               |
| <b>Test site:</b>            | Measurement Distance: 3m (Semi-Anechoic Chamber)  |               |      |               |  |           |                    |        |            |        |               |      |      |            |            |  |         |      |      |               |
| <b>Receiver setup:</b>       | <table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>Above 1GHz</td> <td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak Value</td> </tr> <tr> <td></td> <td>Average</td> <td>1MHz</td> <td>10Hz</td> <td>Average Value</td> </tr> </tbody> </table>   |               |      |               |  | Frequency | Detector           | RBW    | VBW        | Remark | Above 1GHz    | Peak | 1MHz | 3MHz       | Peak Value |  | Average | 1MHz | 10Hz | Average Value |
| Frequency                    | Detector  | RBW           | VBW  | Remark        |  |           |                    |        |            |        |               |      |      |            |            |  |         |      |      |               |
| Above 1GHz                   | Peak  | 1MHz          | 3MHz | Peak Value    |  |           |                    |        |            |        |               |      |      |            |            |  |         |      |      |               |
|                              | Average   | 1MHz          | 10Hz | Average Value |  |           |                    |        |            |        |               |      |      |            |            |  |         |      |      |               |
| <b>Limit:</b>                | <table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBuV/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>Above 1GHz</td> <td>54.0</td> <td>Average Value</td> </tr> <tr> <td></td> <td>74.0</td> <td>Peak Value</td> </tr> </tbody> </table>  |               |      |               |  | Frequency | Limit (dBuV/m @3m) | Remark | Above 1GHz | 54.0   | Average Value |      | 74.0 | Peak Value |            |  |         |      |      |               |
| Frequency                    | Limit (dBuV/m @3m)  | Remark        |      |               |  |           |                    |        |            |        |               |      |      |            |            |  |         |      |      |               |
| Above 1GHz                   | 54.0  | Average Value |      |               |  |           |                    |        |            |        |               |      |      |            |            |  |         |      |      |               |
|                              | 74.0  | Peak Value    |      |               |  |           |                    |        |            |        |               |      |      |            |            |  |         |      |      |               |
| <b>Test Procedure:</b>       | <ol style="list-style-type: none"> <li>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>c. 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.</li> <li>d. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>f. 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.</li> </ol> |               |      |               |  |           |                    |        |            |        |               |      |      |            |            |  |         |      |      |               |

|                          |                                  |
|--------------------------|----------------------------------|
| <b>Test setup:</b>       |                                  |
| <b>Test Instruments:</b> | Refer to section 5.6 for details |
| <b>Test mode:</b>        | Refer to section 5.3 for details |
| <b>Test results:</b>     | Pass                             |

**Note:**

*The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:*

*Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor*

**Measurement data:**

| Test mode:      |                   | 802.11b               |                 | Test channel:      |                | Lowest              |                 | Remark:      |  | Peak |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |  |      |  |
| 2390.00         | 51.47             | 27.59                 | 3.33            | 30.10              | 52.29          | 74.00               | -21.71          | Vertical     |  |      |  |
| 2400.00         | 55.63             | 27.58                 | 3.37            | 30.10              | 56.48          | 74.00               | -17.52          | Vertical     |  |      |  |
| 2390.00         | 52.82             | 27.59                 | 3.33            | 30.10              | 53.64          | 74.00               | -20.36          | Horizontal   |  |      |  |
| 2400.00         | 56.69             | 27.58                 | 3.37            | 30.10              | 57.54          | 74.00               | -16.46          | Horizontal   |  |      |  |

| Test mode:      |                   | 802.11b               |                 | Test channel:      |                | Lowest              |                 | Remark:      |  | Average |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |  |         |  |
| 2390.00         | 35.11             | 27.59                 | 3.33            | 30.10              | 35.93          | 54.00               | -18.07          | Vertical     |  |         |  |
| 2400.00         | 38.62             | 27.58                 | 3.37            | 30.10              | 39.47          | 54.00               | -14.53          | Vertical     |  |         |  |
| 2390.00         | 36.46             | 27.59                 | 3.33            | 30.10              | 37.28          | 54.00               | -16.72          | Horizontal   |  |         |  |
| 2400.00         | 39.68             | 27.58                 | 3.37            | 30.10              | 40.53          | 54.00               | -13.47          | Horizontal   |  |         |  |

| Test mode:      |                   | 802.11b               |                 | Test channel:      |                | Highest             |                 | Remark:      |  | Peak |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |  |      |  |
| 2483.50         | 55.91             | 27.55                 | 3.52            | 30.70              | 56.28          | 74.00               | -17.72          | Vertical     |  |      |  |
| 2500.00         | 52.01             | 27.53                 | 3.49            | 29.93              | 53.10          | 74.00               | -20.90          | Vertical     |  |      |  |
| 2483.50         | 57.07             | 27.55                 | 3.52            | 30.70              | 57.44          | 74.00               | -16.56          | Horizontal   |  |      |  |
| 2500.00         | 53.41             | 27.53                 | 3.49            | 29.93              | 54.50          | 74.00               | -19.50          | Horizontal   |  |      |  |

| Test mode:      |                   | 802.11b               |                 | Test channel:      |                | Highest             |                 | Remark:      |  | Average |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |  |         |  |
| 2483.50         | 38.87             | 27.53                 | 3.49            | 29.93              | 39.96          | 54.00               | -14.04          | Vertical     |  |         |  |
| 2500.00         | 34.30             | 27.55                 | 3.52            | 30.70              | 34.67          | 54.00               | -19.33          | Vertical     |  |         |  |
| 2483.50         | 40.27             | 27.53                 | 3.49            | 29.93              | 41.36          | 54.00               | -12.64          | Horizontal   |  |         |  |
| 2500.00         | 35.46             | 27.55                 | 3.52            | 30.70              | 35.83          | 54.00               | -18.17          | Horizontal   |  |         |  |

| Test mode:      |                   | 802.11g               |                 | Test channel:      |                | Lowest              |                 | Remark:      |  | Peak |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |  |      |  |
| 2390.00         | 49.92             | 27.59                 | 3.33            | 30.10              | 50.74          | 74.00               | -23.26          | Vertical     |  |      |  |
| 2400.00         | 54.01             | 27.58                 | 3.37            | 30.10              | 54.86          | 74.00               | -19.14          | Vertical     |  |      |  |
| 2390.00         | 51.46             | 27.59                 | 3.33            | 30.10              | 52.28          | 74.00               | -21.72          | Horizontal   |  |      |  |
| 2400.00         | 55.29             | 27.58                 | 3.37            | 30.10              | 56.14          | 74.00               | -17.86          | Horizontal   |  |      |  |

| Test mode:      |                   | 802.11g               |                 | Test channel:      |                | Lowest              |                 | Remark:      |  | Average |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |  |         |  |
| 2390.00         | 35.18             | 27.59                 | 3.33            | 30.10              | 36.00          | 54.00               | -18.00          | Vertical     |  |         |  |
| 2400.00         | 39.10             | 27.58                 | 3.37            | 30.10              | 39.95          | 54.00               | -14.05          | Vertical     |  |         |  |
| 2390.00         | 37.16             | 27.59                 | 3.33            | 30.10              | 37.98          | 54.00               | -16.02          | Horizontal   |  |         |  |
| 2400.00         | 40.91             | 27.58                 | 3.37            | 30.10              | 41.76          | 54.00               | -12.24          | Horizontal   |  |         |  |

| Test mode:      |                   | 802.11g               |                 | Test channel:      |                | Highest             |                 | Remark:      |  | Peak |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |  |      |  |
| 2483.50         | 54.70             | 27.55                 | 3.52            | 30.70              | 55.07          | 74.00               | -18.93          | Vertical     |  |      |  |
| 2500.00         | 50.75             | 27.53                 | 3.49            | 29.93              | 51.84          | 74.00               | -22.16          | Vertical     |  |      |  |
| 2483.50         | 55.96             | 27.55                 | 3.52            | 30.70              | 56.33          | 74.00               | -17.67          | Horizontal   |  |      |  |
| 2500.00         | 52.35             | 27.53                 | 3.49            | 29.93              | 53.44          | 74.00               | -20.56          | Horizontal   |  |      |  |

| Test mode:      |                   | 802.11g               |                 | Test channel:      |                | Highest             |                 | Remark:      |  | Average |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |  |         |  |
| 2483.50         | 40.29             | 27.53                 | 3.49            | 29.93              | 41.38          | 54.00               | -12.62          | Vertical     |  |         |  |
| 2500.00         | 36.03             | 27.55                 | 3.52            | 30.70              | 36.40          | 54.00               | -17.60          | Vertical     |  |         |  |
| 2483.50         | 40.60             | 27.53                 | 3.49            | 29.93              | 41.69          | 54.00               | -12.31          | Horizontal   |  |         |  |
| 2500.00         | 36.17             | 27.55                 | 3.52            | 30.70              | 36.54          | 54.00               | -17.46          | Horizontal   |  |         |  |

| Test mode:      |                   | 802.11n(H20)          |                 | Test channel:      |                | Lowest              |                 | Remark:      |  | Peak |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |  |      |  |
| 2390.00         | 51.06             | 27.59                 | 3.33            | 30.10              | 51.88          | 74.00               | -22.12          | Vertical     |  |      |  |
| 2400.00         | 56.46             | 27.58                 | 3.37            | 30.10              | 57.31          | 74.00               | -16.69          | Vertical     |  |      |  |
| 2390.00         | 51.62             | 27.59                 | 3.33            | 30.10              | 52.44          | 74.00               | -21.56          | Horizontal   |  |      |  |
| 2400.00         | 55.53             | 27.58                 | 3.37            | 30.10              | 56.38          | 74.00               | -17.62          | Horizontal   |  |      |  |

| Test mode:      |                   | 802.11n(H20)          |                 | Test channel:      |                | Lowest              |                 | Remark:      |  | Average |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |  |         |  |
| 2390.00         | 37.39             | 27.59                 | 3.33            | 30.10              | 38.21          | 54.00               | -15.79          | Vertical     |  |         |  |
| 2400.00         | 41.33             | 27.58                 | 3.37            | 30.10              | 42.18          | 54.00               | -11.82          | Vertical     |  |         |  |
| 2390.00         | 36.95             | 27.59                 | 3.33            | 30.10              | 37.77          | 54.00               | -16.23          | Horizontal   |  |         |  |
| 2400.00         | 40.67             | 27.58                 | 3.37            | 30.10              | 41.52          | 54.00               | -12.48          | Horizontal   |  |         |  |

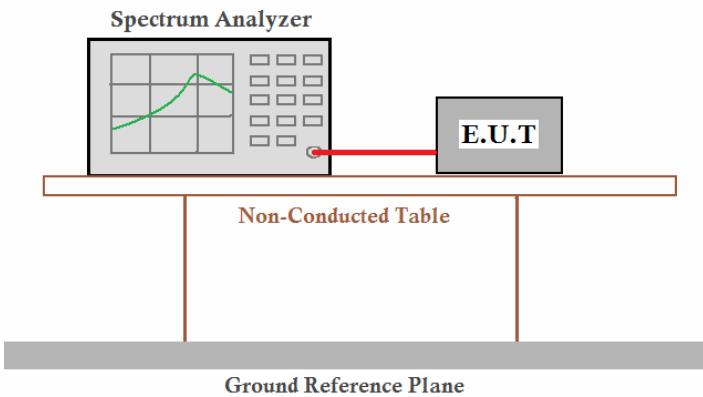
| Test mode:      |                   | 802.11n(H20)          |                 | Test channel:      |                | Highest             |                 | Remark:      |  | Peak |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |  |      |  |
| 2483.50         | 54.58             | 27.53                 | 3.49            | 29.93              | 55.67          | 74.00               | -18.33          | Vertical     |  |      |  |
| 2500.00         | 50.19             | 27.55                 | 3.52            | 30.70              | 50.56          | 74.00               | -23.44          | Vertical     |  |      |  |
| 2483.50         | 54.26             | 27.53                 | 3.49            | 29.93              | 55.35          | 74.00               | -18.65          | Horizontal   |  |      |  |
| 2500.00         | 49.35             | 27.55                 | 3.52            | 30.70              | 49.72          | 74.00               | -24.28          | Horizontal   |  |      |  |

| Test mode:      |                   | 802.11n(H20)          |                 | Test channel:      |                | Highest             |                 | Remark:      |  | Average |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|--|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |  |         |  |
| 2483.50         | 40.57             | 27.53                 | 3.49            | 29.93              | 41.66          | 54.00               | -12.34          | Vertical     |  |         |  |
| 2500.00         | 37.44             | 27.55                 | 3.52            | 30.70              | 37.81          | 54.00               | -16.19          | Vertical     |  |         |  |
| 2483.50         | 39.62             | 27.53                 | 3.49            | 29.93              | 40.71          | 54.00               | -13.29          | Horizontal   |  |         |  |
| 2500.00         | 37.08             | 27.55                 | 3.52            | 30.70              | 37.45          | 54.00               | -16.55          | Horizontal   |  |         |  |

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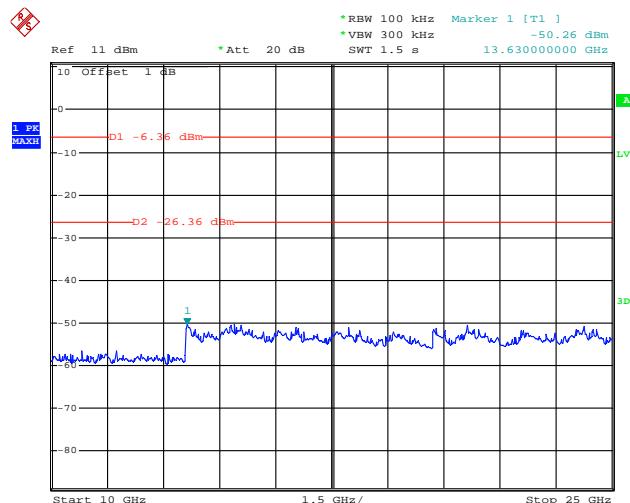
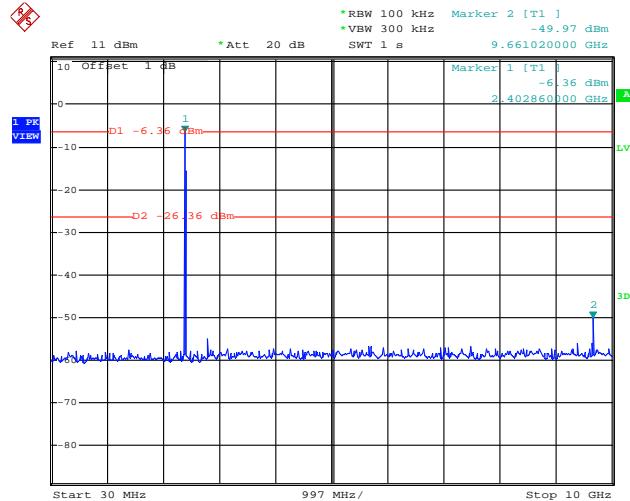
## 6.7 Spurious Emission

### 6.7.1 Conducted Emission Method

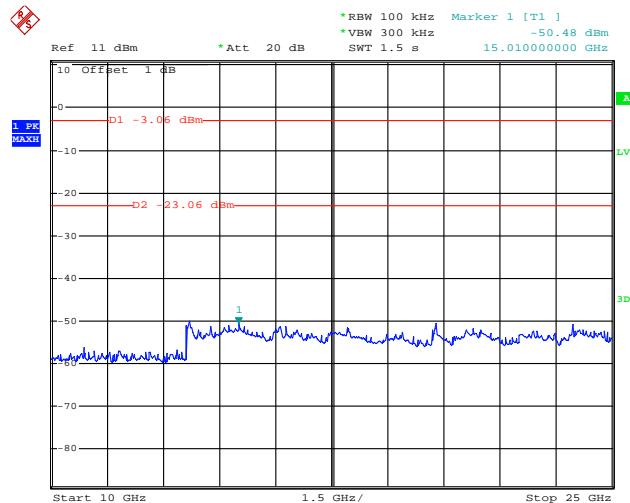
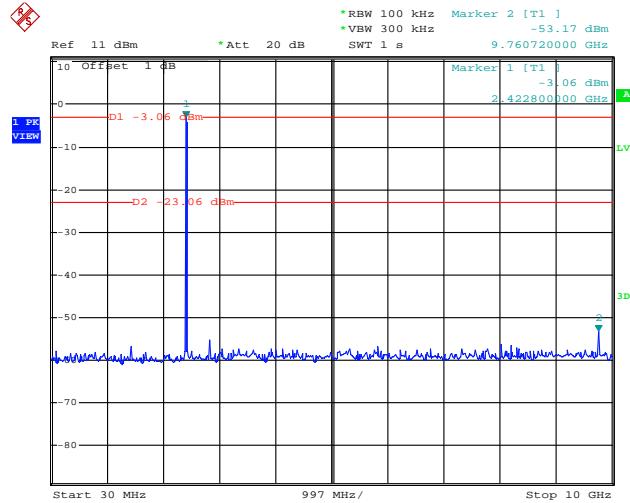
|                          |   |
|--------------------------|---|
| <b>Test Requirement:</b> | FCC Part15 C Section 15.247 (d)   |
| <b>Test Method:</b>      | ANSI C63.4:2009 and KDB558074   |
| <b>Limit:</b>            | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. |
| <b>Test setup:</b>       |    |
| <b>Test Instruments:</b> | Refer to section 5.6 for details  |
| <b>Test mode:</b>        | Refer to section 5.3 for details  |
| <b>Test results:</b>     | Pass  |

**Test plot as follows:**

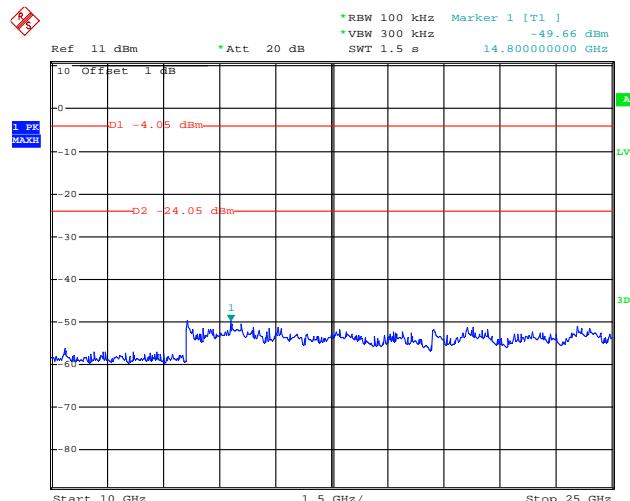
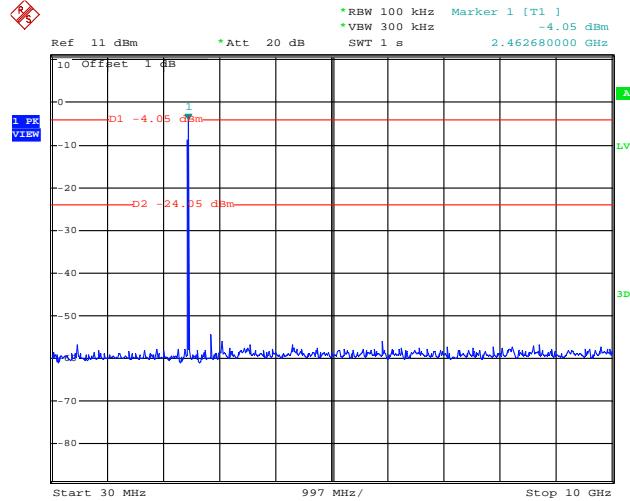
|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Lowest |
|------------|---------|---------------|--------|



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

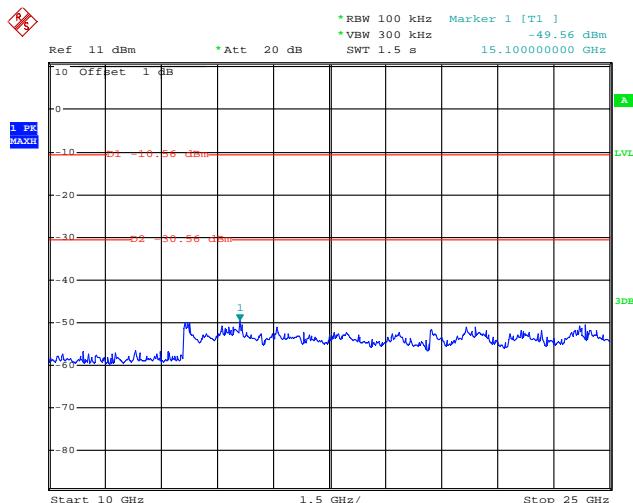
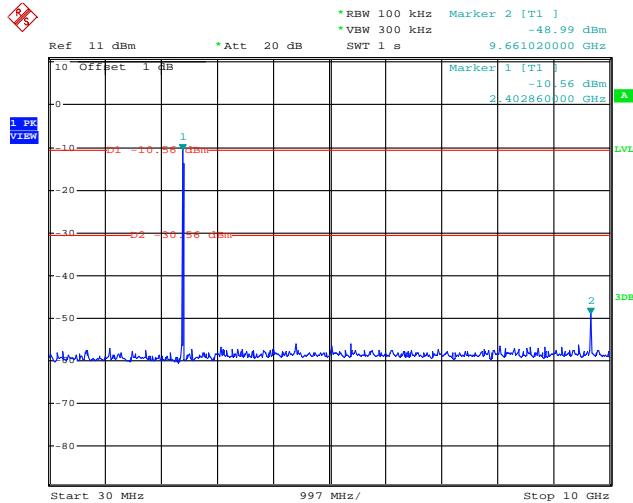


|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|



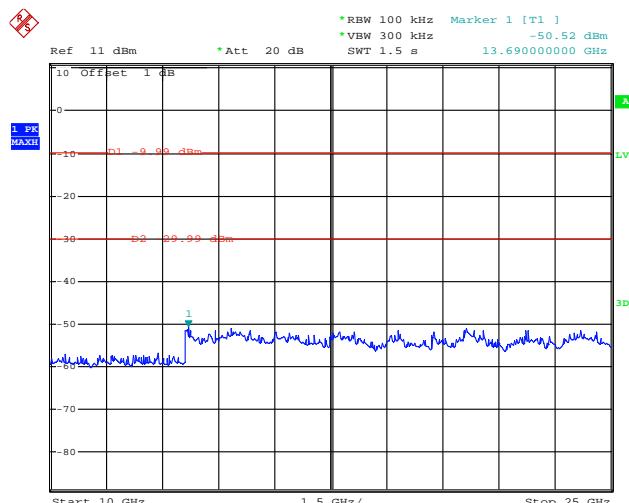
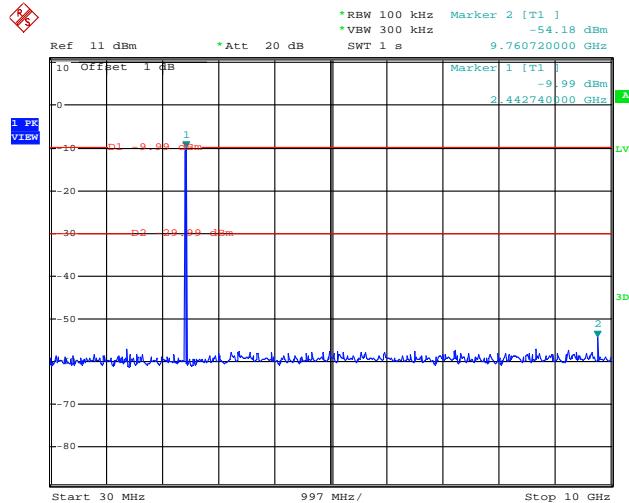
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|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Lowest |
|------------|---------|---------------|--------|



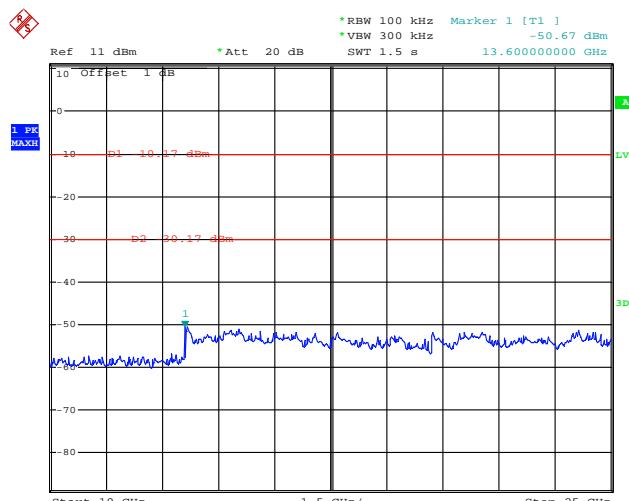
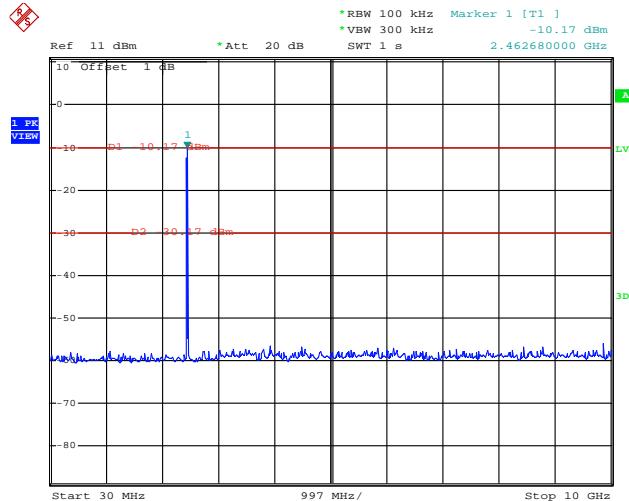
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|            |         |               |        |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Middle |
|------------|---------|---------------|--------|



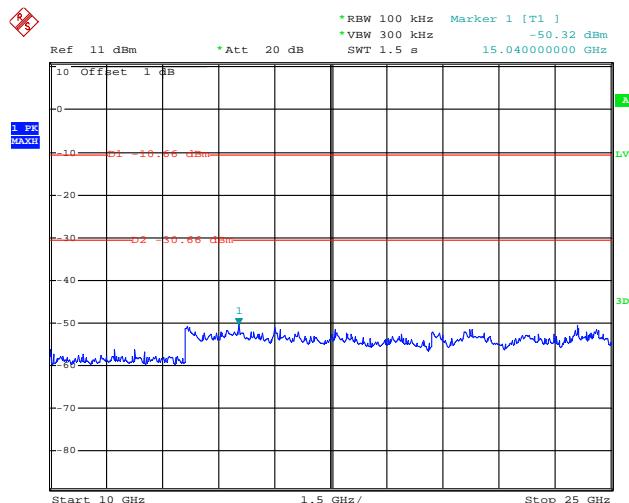
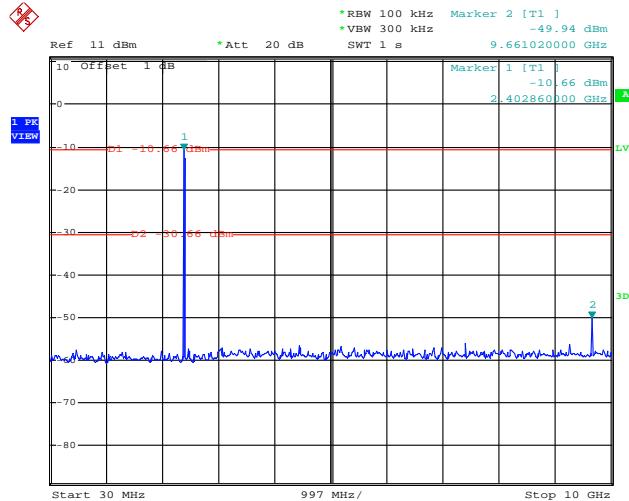
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|            |         |               |         |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|



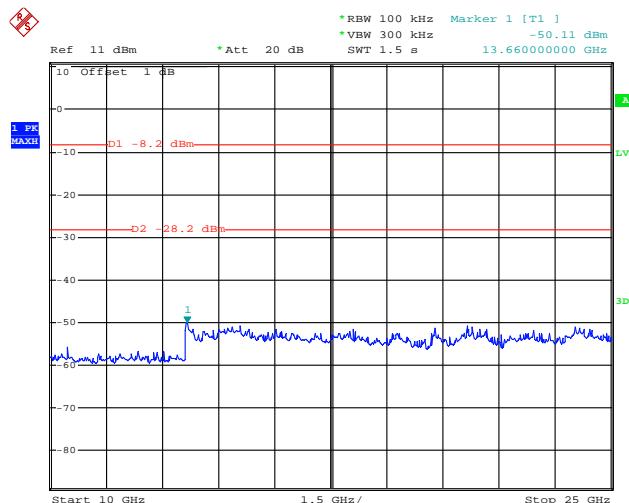
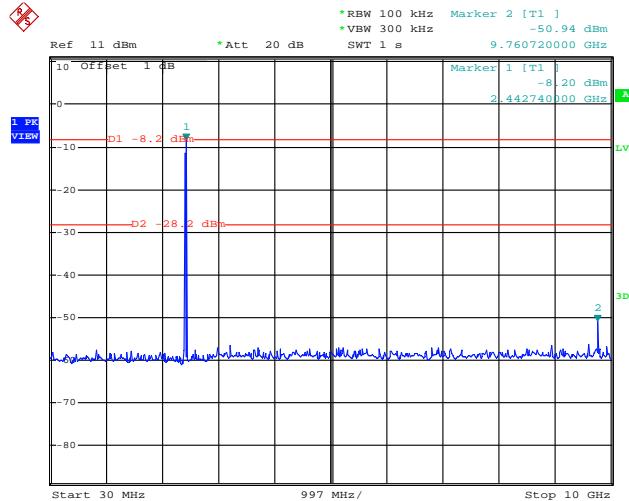
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|            |              |               |        |
|------------|--------------|---------------|--------|
| Test mode: | 802.11n(H20) | Test channel: | Lowest |
|------------|--------------|---------------|--------|

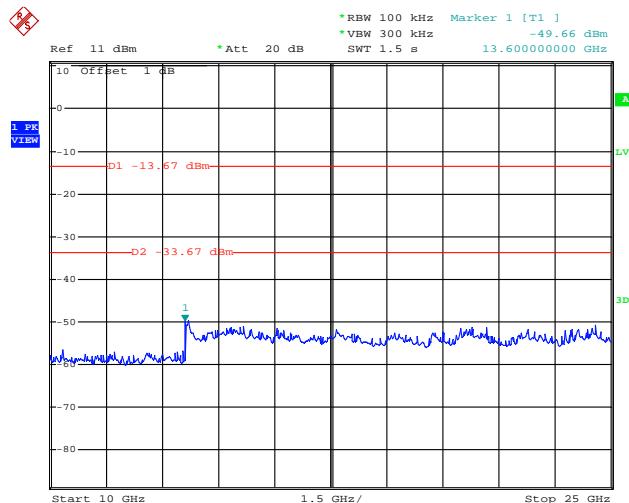
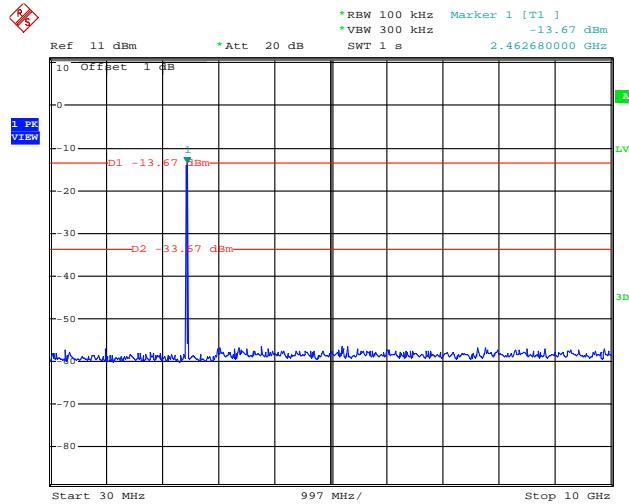


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|            |              |               |        |
|------------|--------------|---------------|--------|
| Test mode: | 802.11n(H20) | Test channel: | Middle |
|------------|--------------|---------------|--------|



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

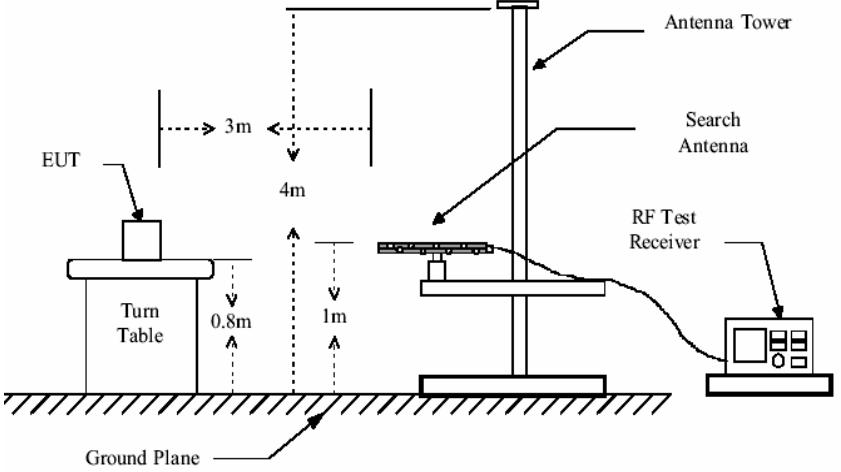
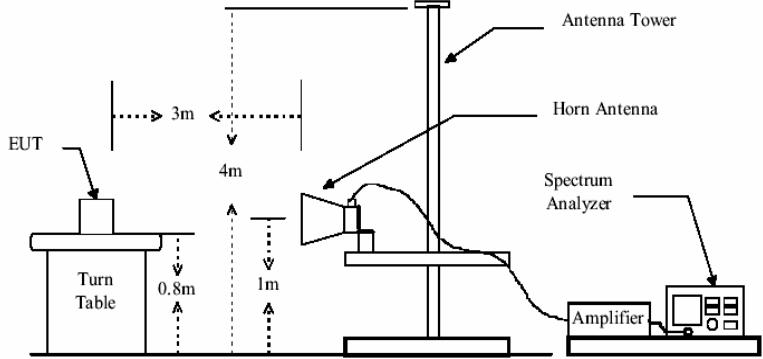


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### 6.7.2 Radiated Emission Method

| <b>Test Requirement:</b>     | FCC Part15 C Section 15.209 and 15.205   |                  |        |                  |  |           |                    |        |             |        |                  |              |        |                  |                  |            |                  |             |      |                  |            |         |               |      |               |            |
|------------------------------|--|------------------|--------|------------------|--|-----------|--------------------|--------|-------------|--------|------------------|--------------|--------|------------------|------------------|------------|------------------|-------------|------|------------------|------------|---------|---------------|------|---------------|------------|
| <b>Test Method:</b>          | ANSI C63.4:2009  |                  |        |                  |  |           |                    |        |             |        |                  |              |        |                  |                  |            |                  |             |      |                  |            |         |               |      |               |            |
| <b>Test Frequency Range:</b> | 30MHz to 25GHz   |                  |        |                  |  |           |                    |        |             |        |                  |              |        |                  |                  |            |                  |             |      |                  |            |         |               |      |               |            |
| <b>Test site:</b>            | Measurement Distance: 3m (Semi-Anechoic Chamber)   |                  |        |                  |  |           |                    |        |             |        |                  |              |        |                  |                  |            |                  |             |      |                  |            |         |               |      |               |            |
| <b>Receiver setup:</b>       | <table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-1GHz</td> <td>Quasi-peak</td> <td>100KHz</td> <td>300KHz</td> <td>Quasi-peak Value</td> </tr> <tr> <td>Above 1GHz</td> <td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak Value</td> </tr> <tr> <td></td> <td>Average</td> <td>1MHz</td> <td>10Hz</td> <td>Average Value</td> </tr> </tbody> </table>   |                  |        |                  |  | Frequency | Detector           | RBW    | VBW         | Remark | 30MHz-1GHz       | Quasi-peak   | 100KHz | 300KHz           | Quasi-peak Value | Above 1GHz | Peak             | 1MHz        | 3MHz | Peak Value       |            | Average | 1MHz          | 10Hz | Average Value |            |
| Frequency                    | Detector   | RBW              | VBW    | Remark           |  |           |                    |        |             |        |                  |              |        |                  |                  |            |                  |             |      |                  |            |         |               |      |               |            |
| 30MHz-1GHz                   | Quasi-peak   | 100KHz           | 300KHz | Quasi-peak Value |  |           |                    |        |             |        |                  |              |        |                  |                  |            |                  |             |      |                  |            |         |               |      |               |            |
| Above 1GHz                   | Peak   | 1MHz             | 3MHz   | Peak Value       |  |           |                    |        |             |        |                  |              |        |                  |                  |            |                  |             |      |                  |            |         |               |      |               |            |
|                              | Average  | 1MHz             | 10Hz   | Average Value    |  |           |                    |        |             |        |                  |              |        |                  |                  |            |                  |             |      |                  |            |         |               |      |               |            |
| <b>Limit:</b>                | <table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBuV/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td> <td>40.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>88MHz-216MHz</td> <td>43.5</td> <td>Quasi-peak Value</td> </tr> <tr> <td>216MHz-960MHz</td> <td>46.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>960MHz-1GHz</td> <td>54.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>Above 1GHz</td> <td>54.0</td> <td>Average Value</td> </tr> <tr> <td></td> <td>74.0</td> <td>Peak Value</td> </tr> </tbody> </table>  |                  |        |                  |  | 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 |
| 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       |        |                  |  |           |                    |        |             |        |                  |              |        |                  |                  |            |                  |             |      |                  |            |         |               |      |               |            |
| <b>Test Procedure:</b>       | <ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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.</li> <li>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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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</li> </ol> |                  |        |                  |  |           |                    |        |             |        |                  |              |        |                  |                  |            |                  |             |      |                  |            |         |               |      |               |            |

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|                          |  |
|--------------------------|--|
| <b>Test setup:</b>       | sheet.   |
|                          | Below 1GHz   |
|                          |    |
|                          | Above 1GHz   |
|                          |  |
| <b>Test Instruments:</b> | Refer to section 5.6 for details   |
| <b>Test mode:</b>        | Refer to section 5.3 for details   |
| <b>Test results:</b>     | Pass   |

**Note:**

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

Below 1GHz

Test in WIFI mode.

| 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 |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|
| 33.85           | 46.76             | 14.37                 | 0.60            | 32.27              | 29.46          | 40.00               | -10.54          | Vertical     |
| 55.13           | 42.33             | 15.84                 | 0.68            | 31.99              | 26.86          | 40.00               | -13.14          | Vertical     |
| 132.40          | 43.74             | 10.30                 | 1.34            | 31.83              | 23.55          | 43.50               | -19.95          | Vertical     |
| 323.28          | 40.84             | 12.71                 | 2.10            | 32.30              | 23.35          | 46.00               | -22.65          | Vertical     |
| 379.03          | 42.68             | 14.20                 | 2.26            | 32.32              | 26.82          | 46.00               | -19.18          | Vertical     |
| 664.75          | 38.70             | 19.98                 | 2.89            | 31.64              | 29.93          | 46.00               | -16.07          | Vertical     |
| 32.64           | 35.79             | 15.88                 | 0.60            | 32.27              | 20.00          | 40.00               | -20.00          | Horizontal   |
| 65.43           | 40.58             | 10.66                 | 0.76            | 31.93              | 20.07          | 40.00               | -19.93          | Horizontal   |
| 132.40          | 43.36             | 10.52                 | 1.34            | 31.83              | 23.39          | 43.50               | -20.11          | Horizontal   |
| 215.02          | 42.97             | 10.82                 | 1.83            | 32.27              | 23.35          | 43.50               | -20.15          | Horizontal   |
| 312.48          | 48.38             | 13.09                 | 2.08            | 32.30              | 31.25          | 46.00               | -14.75          | Horizontal   |
| 465.91          | 44.01             | 19.45                 | 2.34            | 31.92              | 33.88          | 46.00               | -12.12          | Horizontal   |

Above 1GHz

| Test mode:      |                   | 802.11b               |                 | Test channel:      |                | Lowest              | Remark:         |              | Peak |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |      |
| 4824.00         | 42.77             | 31.79                 | 5.34            | 24.07              | 55.83          | 74.00               | -18.17          | Vertical     |      |
| 7236.00         | 33.97             | 36.19                 | 6.88            | 26.44              | 50.60          | 74.00               | -23.40          | Vertical     |      |
| 9648.00         | 32.54             | 38.07                 | 8.96            | 25.36              | 54.21          | 74.00               | -19.79          | Vertical     |      |
| 12060.00        | 31.26             | 39.05                 | 10.35           | 25.15              | 55.51          | 74.00               | -18.49          | Vertical     |      |
| 14472.00        | ---               |                       |                 |                    |                | 74.00               |                 | Vertical     |      |
| 16884.00        | ---               |                       |                 |                    |                | 74.00               |                 | Vertical     |      |
| 4824.00         | 44.41             | 31.79                 | 5.34            | 24.07              | 57.47          | 74.00               | -16.53          | Horizontal   |      |
| 7236.00         | 35.46             | 36.19                 | 6.88            | 26.44              | 52.09          | 74.00               | -21.91          | Horizontal   |      |
| 9648.00         | 33.88             | 38.07                 | 8.96            | 25.36              | 55.55          | 74.00               | -18.45          | Horizontal   |      |
| 12060.00        | 32.45             | 39.05                 | 10.35           | 25.15              | 56.70          | 74.00               | -17.30          | Horizontal   |      |
| 14472.00        | ---               |                       |                 |                    |                | 74.00               |                 | Horizontal   |      |
| 16884.00        | ---               |                       |                 |                    |                | 74.00               |                 | Horizontal   |      |

| Test mode:      |                   | 802.11b               |                 | Test channel:      |                | Lowest              | Remark:         |              | Average |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|---------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |         |
| 4824.00         | 24.02             | 31.79                 | 5.34            | 24.07              | 37.08          | 54.00               | -16.92          | Vertical     |         |
| 7236.00         | 19.00             | 36.19                 | 6.88            | 26.44              | 35.63          | 54.00               | -18.37          | Vertical     |         |
| 9648.00         | 17.05             | 38.07                 | 8.96            | 25.36              | 38.72          | 54.00               | -15.28          | Vertical     |         |
| 12060.00        | 15.94             | 39.05                 | 10.35           | 25.15              | 40.19          | 54.00               | -13.81          | Vertical     |         |
| 14472.00        | ---               |                       |                 |                    |                | 54.00               |                 | Vertical     |         |
| 16884.00        | ---               |                       |                 |                    |                | 54.00               |                 | Vertical     |         |
| 4824.00         | 25.63             | 31.79                 | 5.34            | 24.07              | 38.69          | 54.00               | -15.31          | Horizontal   |         |
| 7236.00         | 20.46             | 36.19                 | 6.88            | 26.44              | 37.09          | 54.00               | -16.91          | Horizontal   |         |
| 9648.00         | 18.36             | 38.07                 | 8.96            | 25.36              | 40.03          | 54.00               | -13.97          | Horizontal   |         |
| 12060.00        | 17.10             | 39.05                 | 10.35           | 25.15              | 41.35          | 54.00               | -12.65          | Horizontal   |         |
| 14472.00        | ---               |                       |                 |                    |                | 54.00               |                 | Horizontal   |         |
| 16884.00        | ---               |                       |                 |                    |                | 54.00               |                 | Horizontal   |         |

| Test mode:      |                   | 802.11b               |                 | Test channel:      |                | Middle              | Remark:         |              | Peak |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|--------------|------|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |      |
| 4874.00         | 43.06             | 31.85                 | 5.40            | 24.01              | 56.30          | 74.00               | -17.70          | Vertical     |      |
| 7311.00         | 31.66             | 36.37                 | 6.90            | 26.58              | 48.35          | 74.00               | -25.65          | Vertical     |      |
| 9688.00         | 31.07             | 38.13                 | 8.98            | 25.34              | 52.84          | 74.00               | -21.16          | Vertical     |      |
| 12185.00        | 29.18             | 38.92                 | 10.38           | 25.04              | 53.44          | 74.00               | -20.56          | Vertical     |      |
| 14682.00        | ---               |                       |                 |                    |                | 74.00               |                 | Vertical     |      |
| 17179.00        | ---               |                       |                 |                    |                | 74.00               |                 | Vertical     |      |
| 4874.00         | 45.20             | 31.85                 | 5.40            | 24.01              | 58.44          | 74.00               | -15.56          | Horizontal   |      |
| 7311.00         | 33.69             | 36.37                 | 6.90            | 26.58              | 50.38          | 74.00               | -23.62          | Horizontal   |      |
| 9688.00         | 32.99             | 38.13                 | 8.98            | 25.34              | 54.76          | 74.00               | -19.24          | Horizontal   |      |
| 12185.00        | 30.99             | 38.92                 | 10.38           | 25.04              | 55.25          | 74.00               | -18.75          | Horizontal   |      |
| 14682.00        | ---               |                       |                 |                    |                | 74.00               |                 | Horizontal   |      |
| 17179.00        | ---               |                       |                 |                    |                | 74.00               |                 | Horizontal   |      |

## Remark

"---" means that the emission level is too low to be measured

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| Test mode:      |                   | 802.11b               |                 | Test channel:      |                | Middle              |                 | Remark: |              | Average |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|---------|--------------|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |         | polarization |         |  |
| 4874.00         | 25.44             | 31.85                 | 5.40            | 24.01              | 38.68          | 54.00               | -15.32          |         | Vertical     |         |  |
| 7311.00         | 18.71             | 36.37                 | 6.90            | 26.58              | 35.40          | 54.00               | -18.60          |         | Vertical     |         |  |
| 9688.00         | 15.04             | 38.13                 | 8.98            | 25.34              | 36.81          | 54.00               | -17.19          |         | Vertical     |         |  |
| 12185.00        | 16.31             | 38.92                 | 10.38           | 25.04              | 40.57          | 54.00               | -13.43          |         | Vertical     |         |  |
| 14682.00        | ---               |                       |                 |                    |                | 54.00               |                 |         | Vertical     |         |  |
| 17179.00        | ---               |                       |                 |                    |                | 54.00               |                 |         | Vertical     |         |  |
| 4874.00         | 27.48             | 31.85                 | 5.40            | 24.01              | 40.72          | 54.00               | -13.28          |         | Horizontal   |         |  |
| 7311.00         | 20.59             | 36.37                 | 6.90            | 26.58              | 37.28          | 54.00               | -16.72          |         | Horizontal   |         |  |
| 9688.00         | 16.76             | 38.13                 | 8.98            | 25.34              | 38.53          | 54.00               | -15.47          |         | Horizontal   |         |  |
| 12185.00        | 17.87             | 38.92                 | 10.38           | 25.04              | 42.13          | 54.00               | -11.87          |         | Horizontal   |         |  |
| 14682.00        | ---               |                       |                 |                    |                | 54.00               |                 |         | Horizontal   |         |  |
| 17179.00        | ---               |                       |                 |                    |                | 54.00               |                 |         | Horizontal   |         |  |

| Test mode:      |                   | 802.11b               |                 | Test channel:      |                | Highest             |                 | Remark: |              | Peak |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|---------|--------------|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |         | polarization |      |  |
| 4924.00         | 40.87             | 31.89                 | 5.46            | 23.96              | 54.26          | 74.00               | -19.74          |         | Vertical     |      |  |
| 7386.00         | 33.21             | 36.49                 | 6.93            | 26.79              | 49.84          | 74.00               | -24.16          |         | Vertical     |      |  |
| 9848.00         | 30.28             | 38.24                 | 9.05            | 25.30              | 52.27          | 74.00               | -21.73          |         | Vertical     |      |  |
| 12310.00        | 28.90             | 38.83                 | 10.41           | 24.90              | 53.24          | 74.00               | -20.76          |         | Vertical     |      |  |
| 14772.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Vertical     |      |  |
| 17234.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Vertical     |      |  |
| 4924.00         | 42.91             | 31.89                 | 5.46            | 23.96              | 56.30          | 74.00               | -17.70          |         | Horizontal   |      |  |
| 7386.00         | 35.16             | 36.49                 | 6.93            | 26.79              | 51.79          | 74.00               | -22.21          |         | Horizontal   |      |  |
| 9848.00         | 32.14             | 38.24                 | 9.05            | 25.30              | 54.13          | 74.00               | -19.87          |         | Horizontal   |      |  |
| 12310.00        | 30.67             | 38.83                 | 10.41           | 24.90              | 55.01          | 74.00               | -18.99          |         | Horizontal   |      |  |
| 14772.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Horizontal   |      |  |
| 17234.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Horizontal   |      |  |

| Test mode:      |                   | 802.11b               |                 | Test channel:      |                | Highest             |                 | Remark: |              | Average |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|---------|--------------|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |         | polarization |         |  |
| 4924.00         | 24.21             | 31.89                 | 5.46            | 23.96              | 37.60          | 54.00               | -16.40          |         | Vertical     |         |  |
| 7386.00         | 19.25             | 36.49                 | 6.93            | 26.79              | 35.88          | 54.00               | -18.12          |         | Vertical     |         |  |
| 9848.00         | 20.52             | 38.24                 | 9.05            | 25.30              | 42.51          | 54.00               | -11.49          |         | Vertical     |         |  |
| 12310.00        | 17.21             | 38.83                 | 10.41           | 24.90              | 41.55          | 54.00               | -12.45          |         | Vertical     |         |  |
| 14772.00        | ---               |                       |                 |                    |                | 54.00               |                 |         | Vertical     |         |  |
| 17234.00        | ---               |                       |                 |                    |                | 54.00               |                 |         | Vertical     |         |  |
| 4924.00         | 26.17             | 31.89                 | 5.46            | 23.96              | 39.56          | 54.00               | -14.44          |         | Horizontal   |         |  |
| 7386.00         | 21.04             | 36.49                 | 6.93            | 26.79              | 37.67          | 54.00               | -16.33          |         | Horizontal   |         |  |
| 9848.00         | 22.14             | 38.24                 | 9.05            | 25.30              | 44.13          | 54.00               | -9.87           |         | Horizontal   |         |  |
| 12310.00        | 18.66             | 38.83                 | 10.41           | 24.90              | 43.00          | 54.00               | -11.00          |         | Horizontal   |         |  |
| 14772.00        | ---               |                       |                 |                    |                | 54.00               |                 |         | Horizontal   |         |  |
| 17234.00        | ---               |                       |                 |                    |                | 54.00               |                 |         | Horizontal   |         |  |

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| Test mode:      |                   | 802.11g               |                 | Test channel:      |                | Lowest              |                 | Remark: |              | Peak |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|---------|--------------|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |         | polarization |      |  |
| 4824.00         | 38.83             | 31.79                 | 5.34            | 24.07              | 51.89          | 74.00               | -22.11          |         | Vertical     |      |  |
| 7236.00         | 34.62             | 36.19                 | 6.88            | 26.44              | 51.25          | 74.00               | -22.75          |         | Vertical     |      |  |
| 9648.00         | 31.26             | 38.07                 | 8.96            | 25.36              | 52.93          | 74.00               | -21.07          |         | Vertical     |      |  |
| 12060.00        | 30.05             | 39.05                 | 10.35           | 25.15              | 54.30          | 74.00               | -19.70          |         | Vertical     |      |  |
| 14472.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Vertical     |      |  |
| 16884.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Vertical     |      |  |
| 4824.00         | 39.24             | 31.79                 | 5.34            | 24.07              | 52.30          | 74.00               | -21.70          |         | Horizontal   |      |  |
| 7236.00         | 33.98             | 36.19                 | 6.88            | 26.44              | 50.61          | 74.00               | -23.39          |         | Horizontal   |      |  |
| 9648.00         | 32.36             | 38.07                 | 8.96            | 25.36              | 54.03          | 74.00               | -19.97          |         | Horizontal   |      |  |
| 12060.00        | 30.89             | 39.05                 | 10.35           | 25.15              | 55.14          | 74.00               | -18.86          |         | Horizontal   |      |  |
| 14472.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Horizontal   |      |  |
| 16884.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Horizontal   |      |  |

| Test mode:      |                   | 802.11g               |                 | Test channel:      |                | Lowest              |                 | Remark: |              | Average |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|---------|--------------|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |         | polarization |         |  |
| 4824.00         | 25.53             | 31.79                 | 5.34            | 24.07              | 38.59          | 54.00               | -15.41          |         | Vertical     |         |  |
| 7236.00         | 21.89             | 36.19                 | 6.88            | 26.44              | 38.52          | 54.00               | -15.48          |         | Vertical     |         |  |
| 9648.00         | 17.58             | 38.07                 | 8.96            | 25.36              | 39.25          | 54.00               | -14.75          |         | Vertical     |         |  |
| 12060.00        | 16.62             | 39.05                 | 10.35           | 25.15              | 40.87          | 54.00               | -13.13          |         | Vertical     |         |  |
| 14472.00        | ---               |                       |                 |                    |                | 54.00               |                 |         | Vertical     |         |  |
| 16884.00        | ---               |                       |                 |                    |                | 54.00               |                 |         | Vertical     |         |  |
| 4824.00         | 27.14             | 31.79                 | 5.34            | 24.07              | 40.20          | 54.00               | -13.80          |         | Horizontal   |         |  |
| 7236.00         | 23.35             | 36.19                 | 6.88            | 26.44              | 39.98          | 54.00               | -14.02          |         | Horizontal   |         |  |
| 9648.00         | 18.89             | 38.07                 | 8.96            | 25.36              | 40.56          | 54.00               | -13.44          |         | Horizontal   |         |  |
| 12060.00        | 17.78             | 39.05                 | 10.35           | 25.15              | 42.03          | 54.00               | -11.97          |         | Horizontal   |         |  |
| 14472.00        | ---               |                       |                 |                    |                | 54.00               |                 |         | Horizontal   |         |  |
| 16884.00        | ---               |                       |                 |                    |                | 54.00               |                 |         | Horizontal   |         |  |

| Test mode:      |                   | 802.11g               |                 | Test channel:      |                | Middle              |                 | Remark: |              | Peak |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|---------|--------------|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |         | polarization |      |  |
| 4874.00         | 37.74             | 31.85                 | 5.40            | 24.01              | 50.98          | 74.00               | -23.02          |         | Vertical     |      |  |
| 7311.00         | 31.75             | 36.37                 | 6.90            | 26.58              | 48.44          | 74.00               | -25.56          |         | Vertical     |      |  |
| 9688.00         | 28.19             | 38.13                 | 8.98            | 25.34              | 49.96          | 74.00               | -24.04          |         | Vertical     |      |  |
| 12185.00        | 29.33             | 38.92                 | 10.38           | 25.04              | 53.59          | 74.00               | -20.41          |         | Vertical     |      |  |
| 14472.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Vertical     |      |  |
| 16884.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Vertical     |      |  |
| 4874.00         | 39.87             | 31.85                 | 5.40            | 24.01              | 53.11          | 74.00               | -20.89          |         | Horizontal   |      |  |
| 7311.00         | 33.08             | 36.37                 | 6.90            | 26.58              | 49.77          | 74.00               | -24.23          |         | Horizontal   |      |  |
| 9688.00         | 28.33             | 38.13                 | 8.98            | 25.34              | 50.10          | 74.00               | -23.90          |         | Horizontal   |      |  |
| 12185.00        | 29.28             | 38.92                 | 10.38           | 25.04              | 53.54          | 74.00               | -20.46          |         | Horizontal   |      |  |
| 14472.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Horizontal   |      |  |
| 16884.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Horizontal   |      |  |

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| Test mode:      |                   | 802.11g               |                 | Test channel:      |                | Middle              |                 | Remark: |  | Average      |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|---------|--|--------------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |         |  | polarization |  |
| 4874.00         | 24.05             | 31.85                 | 5.40            | 24.01              | 37.29          | 54.00               | -16.71          |         |  | Vertical     |  |
| 7311.00         | 21.46             | 36.37                 | 6.90            | 26.58              | 38.15          | 54.00               | -15.85          |         |  | Vertical     |  |
| 9688.00         | 17.01             | 38.13                 | 8.98            | 25.34              | 38.78          | 54.00               | -15.22          |         |  | Vertical     |  |
| 12185.00        | 16.08             | 38.92                 | 10.38           | 25.04              | 40.34          | 54.00               | -13.66          |         |  | Vertical     |  |
| 14472.00        | ---               |                       |                 |                    |                | 54.00               |                 |         |  | Vertical     |  |
| 16884.00        | ---               |                       |                 |                    |                | 54.00               |                 |         |  | Vertical     |  |
| 4874.00         | 26.09             | 31.85                 | 5.40            | 24.01              | 39.33          | 54.00               | -14.67          |         |  | Horizontal   |  |
| 7311.00         | 23.34             | 36.37                 | 6.90            | 26.58              | 40.03          | 54.00               | -13.97          |         |  | Horizontal   |  |
| 9688.00         | 18.73             | 38.13                 | 8.98            | 25.34              | 40.50          | 54.00               | -13.50          |         |  | Horizontal   |  |
| 12185.00        | 17.64             | 38.92                 | 10.38           | 25.04              | 41.90          | 54.00               | -12.10          |         |  | Horizontal   |  |
| 14472.00        | ---               |                       |                 |                    |                | 54.00               |                 |         |  | Horizontal   |  |
| 16884.00        | ---               |                       |                 |                    |                | 54.00               |                 |         |  | Horizontal   |  |

| Test mode:      |                   | 802.11g               |                 | Test channel:      |                | Highest             |                 | Remark: |  | Peak         |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|---------|--|--------------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |         |  | polarization |  |
| 4924.00         | 38.32             | 31.89                 | 5.46            | 23.96              | 51.71          | 74.00               | -22.29          |         |  | Vertical     |  |
| 7386.00         | 34.77             | 36.49                 | 6.93            | 26.79              | 51.40          | 74.00               | -22.60          |         |  | Vertical     |  |
| 9848.00         | 32.24             | 38.24                 | 9.05            | 25.30              | 54.23          | 74.00               | -19.77          |         |  | Vertical     |  |
| 12310.00        | 29.77             | 38.83                 | 10.41           | 24.90              | 54.11          | 74.00               | -19.89          |         |  | Vertical     |  |
| 14772.00        | ---               |                       |                 |                    |                | 74.00               |                 |         |  | Vertical     |  |
| 17234.00        | ---               |                       |                 |                    |                | 74.00               |                 |         |  | Vertical     |  |
| 4924.00         | 41.04             | 31.89                 | 5.46            | 23.96              | 54.43          | 74.00               | -19.57          |         |  | Horizontal   |  |
| 7386.00         | 34.95             | 36.49                 | 6.93            | 26.79              | 51.58          | 74.00               | -22.42          |         |  | Horizontal   |  |
| 9848.00         | 32.14             | 38.24                 | 9.05            | 25.30              | 54.13          | 74.00               | -19.87          |         |  | Horizontal   |  |
| 12310.00        | 29.41             | 38.83                 | 10.41           | 24.90              | 53.75          | 74.00               | -20.25          |         |  | Horizontal   |  |
| 14772.00        | ---               |                       |                 |                    |                | 74.00               |                 |         |  | Horizontal   |  |
| 17234.00        | ---               |                       |                 |                    |                | 74.00               |                 |         |  | Horizontal   |  |

| Test mode:      |                   | 802.11g               |                 | Test channel:      |                | Highest             |                 | Remark: |  | Average      |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|---------|--|--------------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |         |  | polarization |  |
| 4924.00         | 23.42             | 31.89                 | 5.46            | 23.96              | 36.81          | 54.00               | -17.19          |         |  | Vertical     |  |
| 7386.00         | 22.08             | 36.49                 | 6.93            | 26.79              | 38.71          | 54.00               | -15.29          |         |  | Vertical     |  |
| 9848.00         | 18.84             | 38.24                 | 9.05            | 25.30              | 40.83          | 54.00               | -13.17          |         |  | Vertical     |  |
| 12310.00        | 17.60             | 38.83                 | 10.41           | 24.90              | 41.94          | 54.00               | -12.06          |         |  | Vertical     |  |
| 14772.00        | ---               |                       |                 |                    |                | 54.00               |                 |         |  | Vertical     |  |
| 17234.00        | ---               |                       |                 |                    |                | 54.00               |                 |         |  | Vertical     |  |
| 4924.00         | 25.38             | 31.89                 | 5.46            | 23.96              | 38.77          | 54.00               | -15.23          |         |  | Horizontal   |  |
| 7386.00         | 23.87             | 36.49                 | 6.93            | 26.79              | 40.50          | 54.00               | -13.50          |         |  | Horizontal   |  |
| 9848.00         | 20.46             | 38.24                 | 9.05            | 25.30              | 42.45          | 54.00               | -11.55          |         |  | Horizontal   |  |
| 12310.00        | 19.05             | 38.83                 | 10.41           | 24.90              | 43.39          | 54.00               | -10.61          |         |  | Horizontal   |  |
| 14772.00        | ---               |                       |                 |                    |                | 54.00               |                 |         |  | Horizontal   |  |
| 17234.00        | ---               |                       |                 |                    |                | 54.00               |                 |         |  | Horizontal   |  |

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| Test mode:      |                   | 802.11n(H20)          |                 | Test channel:      |                | Lowest              |                 | Remark: |              | Peak |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|---------|--------------|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |         | polarization |      |  |
| 4824.00         | 36.60             | 31.79                 | 5.34            | 24.07              | 49.66          | 74.00               | -24.34          |         | Vertical     |      |  |
| 7236.00         | 32.92             | 36.19                 | 6.88            | 26.44              | 49.55          | 74.00               | -24.45          |         | Vertical     |      |  |
| 9648.00         | 31.53             | 38.07                 | 8.96            | 25.36              | 53.20          | 74.00               | -20.80          |         | Vertical     |      |  |
| 12060.00        | 30.29             | 39.05                 | 10.35           | 25.15              | 54.54          | 74.00               | -19.46          |         | Vertical     |      |  |
| 14472.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Vertical     |      |  |
| 16884.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Vertical     |      |  |
| 4824.00         | 38.21             | 31.79                 | 5.34            | 24.07              | 51.27          | 74.00               | -22.73          |         | Horizontal   |      |  |
| 7236.00         | 34.38             | 36.19                 | 6.88            | 26.44              | 51.01          | 74.00               | -22.99          |         | Horizontal   |      |  |
| 9648.00         | 32.84             | 38.07                 | 8.96            | 25.36              | 54.51          | 74.00               | -19.49          |         | Horizontal   |      |  |
| 12060.00        | 31.45             | 39.05                 | 10.35           | 25.15              | 55.70          | 74.00               | -18.30          |         | Horizontal   |      |  |
| 14472.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Horizontal   |      |  |
| 16884.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Horizontal   |      |  |

| Test mode:      |                   | 802.11n(H20)          |                 | Test channel:      |                | Lowest              |                 | Remark: |              | Average |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|---------|--------------|---------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |         | polarization |         |  |
| 4824.00         | 25.46             | 31.79                 | 5.34            | 24.07              | 38.52          | 54.00               | -15.48          |         | Vertical     |         |  |
| 7236.00         | 24.12             | 36.19                 | 6.88            | 26.44              | 40.75          | 54.00               | -13.25          |         | Vertical     |         |  |
| 9648.00         | 20.07             | 38.07                 | 8.96            | 25.36              | 41.74          | 54.00               | -12.26          |         | Vertical     |         |  |
| 12060.00        | 17.63             | 39.05                 | 10.35           | 25.15              | 41.88          | 54.00               | -12.12          |         | Vertical     |         |  |
| 14472.00        | ---               |                       |                 |                    |                | 54.00               |                 |         | Vertical     |         |  |
| 16884.00        | ---               |                       |                 |                    |                | 54.00               |                 |         | Vertical     |         |  |
| 4824.00         | 27.07             | 31.79                 | 5.34            | 24.07              | 40.13          | 54.00               | -13.87          |         | Horizontal   |         |  |
| 7236.00         | 25.58             | 36.19                 | 6.88            | 26.44              | 42.21          | 54.00               | -11.79          |         | Horizontal   |         |  |
| 9648.00         | 21.38             | 38.07                 | 8.96            | 25.36              | 43.05          | 54.00               | -10.95          |         | Horizontal   |         |  |
| 12060.00        | 18.79             | 39.05                 | 10.35           | 25.15              | 43.04          | 54.00               | -10.96          |         | Horizontal   |         |  |
| 14472.00        | ---               |                       |                 |                    |                | 54.00               |                 |         | Horizontal   |         |  |
| 16884.00        | ---               |                       |                 |                    |                | 54.00               |                 |         | Horizontal   |         |  |

| Test mode:      |                   | 802.11n(H20)          |                 | Test channel:      |                | Middle              |                 | Remark: |              | Peak |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|---------|--------------|------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |         | polarization |      |  |
| 4874.00         | 36.88             | 31.85                 | 5.40            | 24.01              | 50.12          | 74.00               | -23.88          |         | Vertical     |      |  |
| 7311.00         | 31.36             | 36.37                 | 6.90            | 26.58              | 48.05          | 74.00               | -25.95          |         | Vertical     |      |  |
| 9688.00         | 27.42             | 38.13                 | 8.98            | 25.34              | 49.19          | 74.00               | -24.81          |         | Vertical     |      |  |
| 12185.00        | 27.61             | 38.92                 | 10.38           | 25.04              | 51.87          | 74.00               | -22.13          |         | Vertical     |      |  |
| 14472.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Vertical     |      |  |
| 16884.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Vertical     |      |  |
| 4874.00         | 38.92             | 31.85                 | 5.40            | 24.01              | 52.16          | 74.00               | -21.84          |         | Horizontal   |      |  |
| 7311.00         | 33.24             | 36.37                 | 6.90            | 26.58              | 49.93          | 74.00               | -24.07          |         | Horizontal   |      |  |
| 9688.00         | 29.14             | 38.13                 | 8.98            | 25.34              | 50.91          | 74.00               | -23.09          |         | Horizontal   |      |  |
| 12185.00        | 29.17             | 38.92                 | 10.38           | 25.04              | 53.43          | 74.00               | -20.57          |         | Horizontal   |      |  |
| 14472.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Horizontal   |      |  |
| 16884.00        | ---               |                       |                 |                    |                | 74.00               |                 |         | Horizontal   |      |  |

## Remark

"---" means that the emission level is too low to be measured

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| Test mode:      |                   | 802.11n(H20)          |                 | Test channel:      |                | Middle              |                 | Remark: |  | Average      |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|---------|--|--------------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |         |  | polarization |  |
| 4874.00         | 24.35             | 31.85                 | 5.40            | 24.01              | 37.59          | 54.00               | -16.41          |         |  | Vertical     |  |
| 7311.00         | 23.24             | 36.37                 | 6.90            | 26.58              | 39.93          | 54.00               | -14.07          |         |  | Vertical     |  |
| 9688.00         | 19.27             | 38.13                 | 8.98            | 25.34              | 41.04          | 54.00               | -12.96          |         |  | Vertical     |  |
| 12185.00        | 16.09             | 38.92                 | 10.38           | 25.04              | 40.35          | 54.00               | -13.65          |         |  | Vertical     |  |
| 14472.00        | ---               |                       |                 |                    |                | 54.00               |                 |         |  | Vertical     |  |
| 16884.00        | ---               |                       |                 |                    |                | 54.00               |                 |         |  | Vertical     |  |
| 4874.00         | 26.39             | 31.85                 | 5.40            | 24.01              | 39.63          | 54.00               | -14.37          |         |  | Horizontal   |  |
| 7311.00         | 25.12             | 36.37                 | 6.90            | 26.58              | 41.81          | 54.00               | -12.19          |         |  | Horizontal   |  |
| 9688.00         | 20.99             | 38.13                 | 8.98            | 25.34              | 42.76          | 54.00               | -11.24          |         |  | Horizontal   |  |
| 12185.00        | 19.15             | 38.92                 | 10.38           | 25.04              | 43.41          | 54.00               | -10.59          |         |  | Horizontal   |  |
| 14472.00        | ---               |                       |                 |                    |                | 54.00               |                 |         |  | Horizontal   |  |
| 16884.00        | ---               |                       |                 |                    |                | 54.00               |                 |         |  | Horizontal   |  |

| Test mode:      |                   | 802.11n(H20)          |                 | Test channel:      |                | Highest             |                 | Remark: |  | Peak         |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|---------|--|--------------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |         |  | polarization |  |
| 4924.00         | 36.25             | 31.89                 | 5.46            | 23.96              | 49.64          | 74.00               | -24.36          |         |  | Vertical     |  |
| 7386.00         | 32.97             | 36.49                 | 6.93            | 26.79              | 49.60          | 74.00               | -24.40          |         |  | Vertical     |  |
| 9848.00         | 30.42             | 38.24                 | 9.05            | 25.30              | 52.41          | 74.00               | -21.59          |         |  | Vertical     |  |
| 12310.00        | 28.01             | 38.83                 | 10.41           | 24.90              | 52.35          | 74.00               | -21.65          |         |  | Vertical     |  |
| 14772.00        | ---               |                       |                 |                    |                | 74.00               |                 |         |  | Vertical     |  |
| 17234.00        | ---               |                       |                 |                    |                | 74.00               |                 |         |  | Vertical     |  |
| 4924.00         | 38.41             | 31.89                 | 5.46            | 23.96              | 51.80          | 74.00               | -22.20          |         |  | Horizontal   |  |
| 7386.00         | 34.86             | 36.49                 | 6.93            | 26.79              | 51.49          | 74.00               | -22.51          |         |  | Horizontal   |  |
| 9848.00         | 32.14             | 38.24                 | 9.05            | 25.30              | 54.13          | 74.00               | -19.87          |         |  | Horizontal   |  |
| 12310.00        | 29.56             | 38.83                 | 10.41           | 24.90              | 53.90          | 74.00               | -20.10          |         |  | Horizontal   |  |
| 14772.00        | ---               |                       |                 |                    |                | 74.00               |                 |         |  | Horizontal   |  |
| 17234.00        | ---               |                       |                 |                    |                | 74.00               |                 |         |  | Horizontal   |  |

| Test mode:      |                   | 802.11n(H20)          |                 | Test channel:      |                | Highest             |                 | Remark: |  | Average      |  |
|-----------------|-------------------|-----------------------|-----------------|--------------------|----------------|---------------------|-----------------|---------|--|--------------|--|
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |         |  | polarization |  |
| 4924.00         | 24.39             | 31.89                 | 5.46            | 23.96              | 37.78          | 54.00               | -16.22          |         |  | Vertical     |  |
| 7386.00         | 22.09             | 36.49                 | 6.93            | 26.79              | 38.72          | 54.00               | -15.28          |         |  | Vertical     |  |
| 9848.00         | 19.16             | 38.24                 | 9.05            | 25.30              | 41.15          | 54.00               | -12.85          |         |  | Vertical     |  |
| 12310.00        | 18.24             | 38.83                 | 10.41           | 24.90              | 42.58          | 54.00               | -11.42          |         |  | Vertical     |  |
| 14772.00        | ---               |                       |                 |                    |                | 54.00               |                 |         |  | Vertical     |  |
| 17234.00        | ---               |                       |                 |                    |                | 54.00               |                 |         |  | Vertical     |  |
| 4924.00         | 26.45             | 31.89                 | 5.46            | 23.96              | 39.84          | 54.00               | -14.16          |         |  | Horizontal   |  |
| 7386.00         | 23.98             | 36.49                 | 6.93            | 26.79              | 40.61          | 54.00               | -13.39          |         |  | Horizontal   |  |
| 9848.00         | 20.88             | 38.24                 | 9.05            | 25.30              | 42.87          | 54.00               | -11.13          |         |  | Horizontal   |  |
| 12310.00        | 19.79             | 38.83                 | 10.41           | 24.90              | 44.13          | 54.00               | -9.87           |         |  | Horizontal   |  |
| 14772.00        | ---               |                       |                 |                    |                | 54.00               |                 |         |  | Horizontal   |  |
| 17234.00        | ---               |                       |                 |                    |                | 54.00               |                 |         |  | Horizontal   |  |

## Remark

"---" means that the emission level is too low to be measured

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