

FCC RF Test Report

APPLICANT : Motorola Solutions, Inc.
EQUIPMENT : Enterprise Digital Assistant (EDA)
BRAND NAME : Motorola
MODEL NAME : MC55N0
FCC ID : UZ7MC55N0
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : Digital Transmission System (DTS)

The product was received on Apr. 14, 2011 and completely tested on Jul. 19, 2011. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.4-2003 and shown the compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:



Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.



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REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|------------|---------|-------------------------|---------------|
| FR141402B | Rev. 01 | Initial issue of report | Aug. 05, 2011 |
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SUMMARY OF TEST RESULT

| Report Section | FCC Rule | IC Rule | Description | Limit | Result | Remark |
|----------------|-----------------------|-----------|-------------------------------|--------------------------|--------|--|
| 3.1 | 15.247(a)(2) | A8.2(a) | 6dB Bandwidth | $\geq 0.5\text{MHz}$ | Pass | - |
| 3.2 | 15.247(b) | A8.4 | Power Output Measurement | $\leq 30\text{dBm}$ | Pass | - |
| 3.3 | 15.247(d) | A8.5 | Frequency Band Edges | $\leq 20\text{dBc}$ | Pass | - |
| 3.4 | 15.247(d) | A8.5 | Spurious Emission | $< 20\text{ dBc}$ | Pass | - |
| 3.5 | 15.247(e) | A8.2(b) | Power Spectral Density | $\leq 8\text{dBm}$ | Pass | - |
| 3.6 | 15.207 | Gen 7.2.2 | AC Conducted Emission | 15.207(a) | Pass | Under limit 13.3 dB at 0.18 MHz |
| 3.7 | 15.247(d) | A8.5 | Transmitter Radiated Emission | 15.209(a) & 15.247(d) | Pass | Under limit 1.52 dB at 2385.62 MHz |
| 3.8 | 15.203 & 15.247(b) | A8.4 | Antenna Requirement | N/A | Pass | - |

1 General Description

1.1 Applicant

Motorola Solutions, Inc.

One Motorola Plaza, Holtsville, NY 11742-1300 USA

1.2 Manufacturer

Motorola Solutions, Inc.

One Motorola Plaza, Holtsville, NY 11742-1300 USA

1.3 Feature of Equipment Under Test

| Product Feature & Specification | |
|---------------------------------|--|
| Equipment | Enterprise Digital Assistant (EDA) |
| Brand Name | Motorola |
| Model Name | MC55N0 |
| FCC ID | UZ7MC55N0 |
| Sample 1 | EUT with Camera |
| Sample 2 | EUT without Camera |
| Tx/Rx Frequency Range | 802.11b/g/n : 2400 MHz ~ 2483.5 MHz 802.11a/n : 5725 MHz ~ 5850 MHz |
| Channel Spacing | 802.11b/g : 5 MHz 802.11a : 20 MHz |
| Maximum Output Power to Antenna | <2400 MHz ~ 2483.5 MHz> 802.11b : 22.58 dBm (0.18 W) 802.11g : 24.51 dBm (0.28 W) 802.11n (BW 20MHz) : 24.47 dBm (0.28 W) <5725 MHz ~ 5850 MHz> 802.11a : 22.36 dBm (0.17 W) 802.11n (BW 20MHz) : 22.42 dBm (0.18 W) |
| Antenna Type | 802.11b/g/n : PIFA Antenna with gain 2.55 dBi 802.11a/n : PIFA Antenna with gain 2.94 dBi |
| HW Version | DV |
| SW Version | BSP36 |
| Type of Modulation | 802.11b : DSSS (BPSK / QPSK / CCK) 802.11a/g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) |
| EUT Stage | Identical Prototype |

Remark:

1. For other wireless features of this EUT, test report will be issued separately.
2. This test report recorded only product characteristics and test results of Digital Transmission System (DTS).
3. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Testing Site

| | | | | |
|---------------------------|--|-----------|-----------|--------------------------------|
| Test Site | SPORTON INTERNATIONAL INC. | | | |
| Test Site Location | No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-3273456 / FAX: +886-3-3284978 | | | |
| Test Site No. | Sporton Site No. | | | FCC/IC Registration No. |
| | CO05-HY | 03CH06-HY | 03CH07-HY | 722060/4086B-1 |

1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 (Measurement Guidelines of DTS)
- ♦ ANSI C63.4-2003
- ♦ IC RSS-210 Issue 8

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B (DoC), recorded in a separate test report.

1.6 Ancillary Equipment List

| Item | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord |
|------|------------------------|------------|-------------|-------------|-----------------|--|
| 1. | Bluetooth Base Station | R&S | CBT32 | N/A | N/A | Unshielded, 1.8 m |
| 2. | WLAN AP | D-Link | DIR-628 | KA2DIR628A2 | N/A | Unshielded, 1.8 m |
| 3. | Notebook | DELL | Vostro 1510 | FCC DoC | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 4. | LCD Monitor | Lenovo | 6135-AB1 | FCC DoC | Shielded, 1.6 m | Unshielded, 1.8 m |
| 5. | Bluetooth Earphone | Nokia | BH-102 | PYAHS-107W | N/A | N/A |
| 6. | iPod | Apple | A1285 | FCC DoC | Shielded, 1.0 m | N/A |

2 Test Configuration of Equipment Under Test

2.1 RF Power

Preliminary tests were performed in different data rate and recorded the RF power output in the following table:

| Channel | Frequency | 2.4GHz 802.11b RF Power (dBm) | | | |
|---------|-----------|-------------------------------|--------|----------|---------|
| | | DSSS Data Rate | | | |
| | | 1 Mbps | 2 Mbps | 5.5 Mbps | 11 Mbps |
| CH 01 | 2412 MHz | 19.91 | 19.84 | 19.45 | 19.47 |
| CH 06 | 2437 MHz | 22.58 | 22.20 | 21.95 | 21.77 |
| CH 11 | 2462 MHz | 22.18 | 22.13 | 21.82 | 21.83 |
| CH 12 | 2467 MHz | 15.08 | 15.01 | 14.72 | 14.77 |
| CH 13 | 2472 MHz | 15.18 | 15.13 | 14.86 | 14.89 |

| Channel | Frequency | 2.4GHz 802.11g RF Power (dBm) | | | | | | | |
|---------|-----------|-------------------------------|--------|---------|---------|---------|---------|---------|---------|
| | | OFDM Data Rate | | | | | | | |
| | | 6 Mbps | 9 Mbps | 12 Mbps | 18 Mbps | 24 Mbps | 36 Mbps | 48 Mbps | 54 Mbps |
| CH 01 | 2412 MHz | 24.04 | 24.02 | 23.92 | 23.88 | 23.94 | 24.02 | 23.73 | 23.61 |
| CH 06 | 2437 MHz | 24.51 | 24.46 | 24.42 | 24.47 | 24.40 | 24.30 | 24.03 | 23.93 |
| CH 11 | 2462 MHz | 24.22 | 24.18 | 24.10 | 24.08 | 24.01 | 24.09 | 23.77 | 23.80 |
| CH 12 | 2467 MHz | 21.12 | 21.11 | 20.78 | 20.72 | 20.87 | 20.84 | 20.83 | 21.08 |
| CH 13 | 2472 MHz | -11.75 | -11.76 | -11.77 | -11.78 | -11.75 | -11.79 | -11.77 | -11.76 |

| Channel | Frequency | 2.4GHz 802.11n (BW 20MHz) RF Power (dBm) | | | | | | | |
|---------|-----------|--|--------|--------|--------|--------|--------|--------|--------|
| | | OFDM Data Rate | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| CH 01 | 2412 MHz | 23.82 | 23.76 | 23.72 | 23.68 | 23.73 | 23.65 | 23.36 | 22.95 |
| CH 06 | 2437 MHz | 24.47 | 24.43 | 24.45 | 24.24 | 24.30 | 24.02 | 23.95 | 23.18 |
| CH 11 | 2462 MHz | 24.00 | 23.96 | 23.95 | 23.92 | 23.96 | 23.92 | 23.72 | 23.19 |
| CH 12 | 2467 MHz | 20.27 | 20.21 | 20.15 | 19.86 | 19.79 | 20.18 | 19.43 | 19.37 |
| CH 13 | 2472 MHz | -11.41 | -11.43 | -11.45 | -11.48 | -11.44 | -11.47 | -11.43 | -11.42 |

| Channel | Frequency | 5GHz 802.11a RF Power (dBm) | | | | | | | |
|---------|-----------|-----------------------------|--------|---------|---------|---------|---------|---------|---------|
| | | OFDM Data Rate | | | | | | | |
| | | 6 Mbps | 9 Mbps | 12 Mbps | 18 Mbps | 24 Mbps | 36 Mbps | 48 Mbps | 54 Mbps |
| CH149 | 5745 MHz | 22.34 | 22.01 | 21.86 | 21.85 | 21.90 | 21.78 | 21.25 | 21.23 |
| CH157 | 5785 MHz | 22.36 | 22.04 | 21.91 | 21.94 | 21.92 | 21.85 | 21.38 | 21.32 |
| CH165 | 5825 MHz | 22.12 | 21.93 | 21.51 | 21.54 | 21.83 | 21.72 | 21.06 | 21.13 |

| Channel | Frequency | 5GHz 802.11n (BW 20MHz) RF Power (dBm) | | | | | | | |
|---------|-----------|--|-------|-------|-------|-------|-------|-------|-------|
| | | OFDM Data Rate | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| CH149 | 5745 MHz | 22.30 | 22.09 | 21.83 | 21.64 | 21.67 | 21.58 | 21.35 | 20.92 |
| CH157 | 5785 MHz | 22.42 | 22.22 | 21.97 | 21.86 | 21.95 | 21.64 | 21.39 | 21.14 |
| CH165 | 5825 MHz | 22.40 | 22.20 | 22.30 | 22.17 | 22.23 | 22.06 | 21.66 | 21.32 |

Remark:

1. The EUT is programmed to transmit signals continuously for all testing.
2. The data rates of WLAN 802.11a/b/g/n were set in 1Mbps for 802.11b, 6Mbps for 802.11g, MCS0 for 802.11n (BW 20MHz), 6Mbps for 802.11a, and MCS0 for 802.11n (BW 20MHz) for all the test cases due to the highest RF output power.

2.2 Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz), radiated emission (30 MHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

Pre-scanned tests were conducted to determine the final configuration from all possible combinations.

The following table is showing the total pre-scanned test modes, and the worst modes are recorded in this report only.

| Test Cases | | |
|--------------------------|--|--|
| Test Item | 802.11b (Modulation : DSSS) 802.11g/n (Modulation : OFDM) | 802.11a/n (Modulation : OFDM) |
| Conducted TCs | Mode 1: 802.11b_CH01_2412 MHz | Mode 10: 802.11a_CH149_5745 MHz |
| | Mode 2: 802.11b_CH06_2437 MHz | Mode 11: 802.11a_CH157_5785 MHz |
| | Mode 3: 802.11b_CH11_2462 MHz | Mode 12: 802.11a_CH165_5825 MHz |
| | Mode 4: 802.11g_CH01_2412 MHz | Mode 13: 802.11n_CH149_5745 MHz (BW 20M) |
| | Mode 5: 802.11g_CH06_2437 MHz | Mode 14: 802.11n_CH157_5785 MHz (BW 20M) |
| | Mode 6: 802.11g_CH11_2462 MHz | Mode 15: 802.11n_CH165_5825 MHz (BW 20M) |
| | Mode 7: 802.11n_CH01_2412 MHz (BW 20M) | |
| | Mode 8: 802.11n_CH06_2437 MHz (BW 20M) | |
| | Mode 9: 802.11n_CH11_2462 MHz (BW 20M) | |

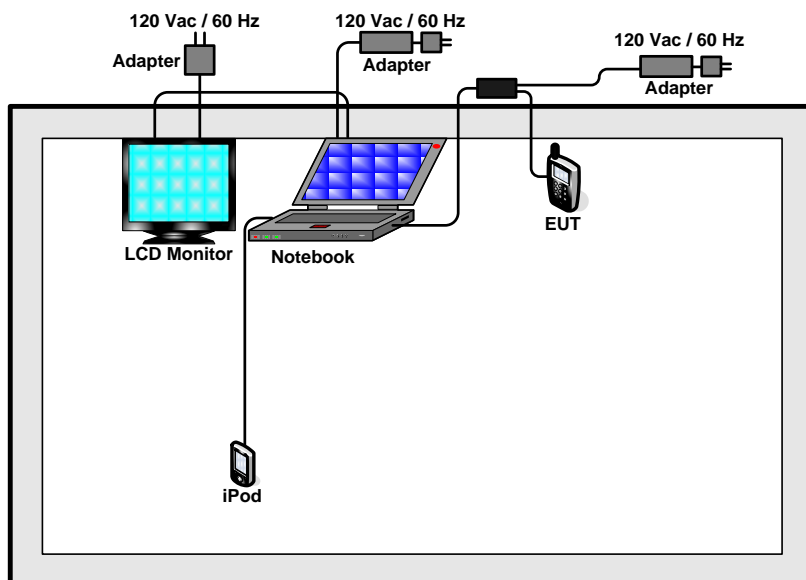


| Test Cases | | |
|-------------------------|---|--|
| Test Item | 802.11b (Modulation : DSSS) 802.11g/n (Modulation : OFDM) | 802.11a/n (Modulation : OFDM) |
| Radiated TCs | Mode 1: 802.11b_CH01_2412 MHz + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 | Mode 17: 802.11a_CH149_5745 MHz + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 |
| | Mode 2: 802.11b_CH06_2437 MHz + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 | Mode 18: 802.11a_CH157_5785 MHz + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 |
| | Mode 3: 802.11b_CH11_2462 MHz + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 | Mode 19: 802.11a_CH165_5825 MHz + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 |
| | Mode 4: 802.11b_CH12_2467 MHz + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 | Mode 20: 802.11n_CH149_5745 MHz (BW 20M) + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 |
| | Mode 5: 802.11b_CH13_2472 MHz + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 | Mode 21: 802.11n_CH157_5785 MHz (BW 20M) + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 |
| | Mode 6: 802.11g_CH01_2412 MHz + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 | Mode 22: 802.11n_CH165_5825 MHz (BW 20M) + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 |
| | Mode 7: 802.11g_CH06_2437 MHz + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 | Mode 23: 802.11a_CH165_5825 MHz + Numeric Keypad + Battery (2400mAh) + 1D Scanner for Sample 2 |
| | Mode 8: 802.11g_CH11_2462 MHz + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 | |
| | Mode 9: 802.11g_CH12_2467 MHz + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 | |
| | Mode 10: 802.11g_CH13_2472 MHz + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 | |
| | Mode 11: 802.11n_CH01_2412 MHz (BW 20M) + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 | |
| | Mode 12: 802.11n_CH06_2437 MHz (BW 20M) + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 | |
| | Mode 13: 802.11n_CH11_2462 MHz (BW 20M) + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 | |
| | Mode 14: 802.11n_CH12_2467 MHz (BW 20M) + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 | |
| | Mode 15: 802.11n_CH13_2472 MHz (BW 20M) + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 | |
| | Mode 16: 802.11b_CH01_2412 MHz + PIM Keypad + Battery (2400mAh) + 1D Scanner for Sample 2 | |
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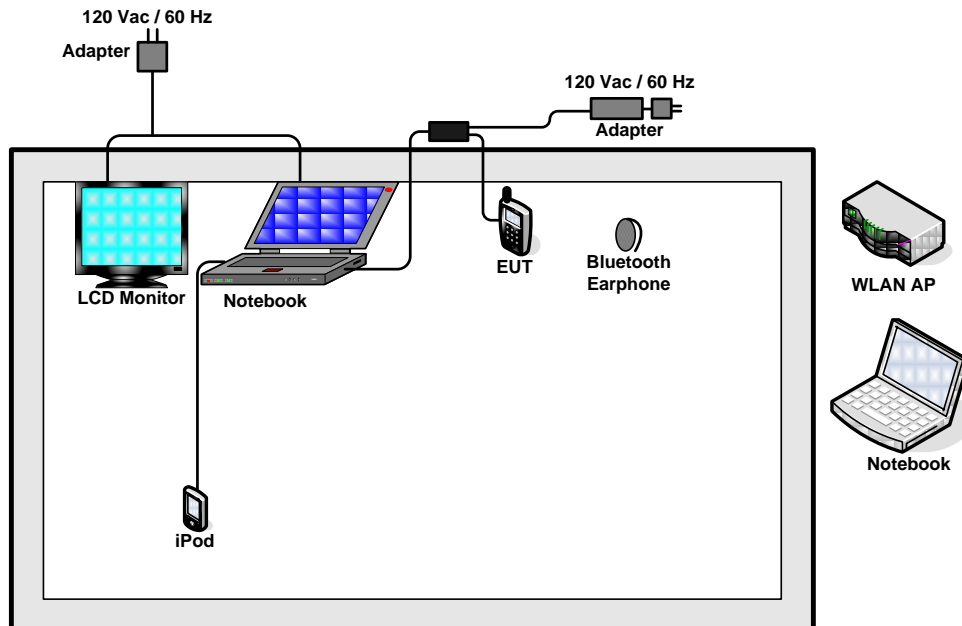
| Test Cases | | |
|--|--|-------------------------------|
| Test Item | 802.11b (Modulation : DSSS) 802.11g/n (Modulation : OFDM) | 802.11a/n (Modulation : OFDM) |
| AC Conducted Emission | Mode 1 : WLAN Link(2.4G) + Bluetooth Link + USB Charging Cable with AC Power + USB Link + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 Mode 2 : WLAN Link(2.4G) + Bluetooth Link + USB Charging Cable with AC Power + USB Link + Numeric Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 Mode 3 : WLAN Link(2.4G) + Bluetooth Link + USB Charging Cable with AC Power + USB Link + PIM Keypad + Battery (2400mAh) + 1D Scanner for Sample 1 | |
| Remark: 1. For radiated TCs test was performed together with USB charging cable with AC power. 2. “BT Link” stands for terminal linked to headset by BT function. 3. “WLAN Link” stands for terminal associated with AP at 2.4GHz band. 4. “USB Link” stands for Activesync RNDIS file transfer. | | |

2.3 Connection Diagram of Test System

<Radiation Test>



<AC Conducted Emission Mode>



2.4 RF Utility

The programmed RF utility "XWingCon", is installed in EUT to provide channel selection, power level, data rate and the application type. RF Utility can send transmitting signal for all testing. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

3 Test Result

3.1 6dB and Bandwidth Measurement

3.1.1 Limit of 6dB Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

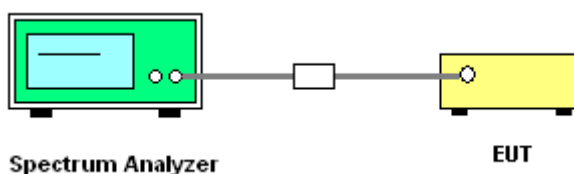
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW. The 6 dB bandwidth must be greater than 500 kHz.
4. The marker-delta reading at this point is the 6 dB bandwidth of the emission.

3.1.4 Test Setup



3.1.5 Test Result of 6dB Bandwidth

| | | | |
|------------------------|--------------|----------------------------|---------|
| Test Mode : | Mode 1, 2, 3 | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11b 6dB Bandwidth (MHz) | 6dB Bandwidth Min. Limit (MHz) | Pass/Fail |
|---------|-----------------|--------------------------------|-----------------------------------|-----------|
| 01 | 2412 | 9.04 | 0.5 | Pass |
| 06 | 2437 | 9.04 | 0.5 | Pass |
| 11 | 2462 | 9.04 | 0.5 | Pass |

| | | | |
|------------------------|--------------|----------------------------|---------|
| Test Mode : | Mode 4, 5, 6 | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11g 6dB Bandwidth (MHz) | 6dB Bandwidth Min. Limit (MHz) | Pass/Fail |
|---------|-----------------|--------------------------------|-----------------------------------|-----------|
| 01 | 2412 | 15.78 | 0.5 | Pass |
| 06 | 2437 | 15.64 | 0.5 | Pass |
| 11 | 2462 | 15.76 | 0.5 | Pass |

| | | | |
|------------------------|--------------|----------------------------|---------|
| Test Mode : | Mode 7, 8, 9 | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11n (BW 20MHz) 6dB Bandwidth (MHz) | 6dB Bandwidth Min. Limit (MHz) | Pass/Fail |
|---------|-----------------|---|-----------------------------------|-----------|
| 01 | 2412 | 15.88 | 0.5 | Pass |
| 06 | 2437 | 15.32 | 0.5 | Pass |
| 11 | 2462 | 15.68 | 0.5 | Pass |

| | | | |
|------------------------|-----------------|----------------------------|--------|
| Test Mode : | Mode 10, 11, 12 | Temperature : | 24~26℃ |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

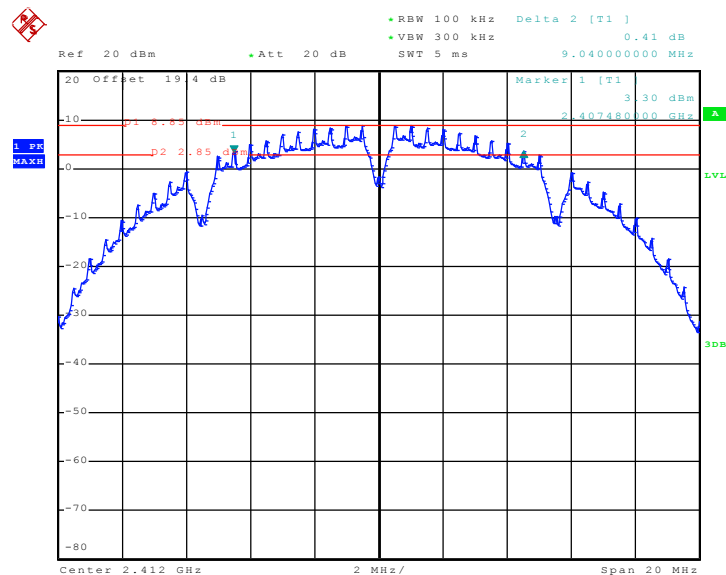
| Channel | Frequency (MHz) | 802.11a 6dB Bandwidth (MHz) | 6dB Bandwidth Min. Limit (MHz) | Pass/Fail |
|---------|-----------------|--------------------------------|-----------------------------------|-----------|
| 149 | 5745 | 15.60 | 0.5 | Pass |
| 157 | 5785 | 15.50 | 0.5 | Pass |
| 165 | 5825 | 15.65 | 0.5 | Pass |

| | | | |
|------------------------|-----------------|----------------------------|--------|
| Test Mode : | Mode 13, 14, 15 | Temperature : | 24~26℃ |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11n (BW 20MHz) 6dB Bandwidth (MHz) | 6dB Bandwidth Min. Limit (MHz) | Pass/Fail |
|---------|-----------------|---|-----------------------------------|-----------|
| 149 | 5745 | 15.70 | 0.5 | Pass |
| 157 | 5785 | 15.30 | 0.5 | Pass |
| 165 | 5825 | 15.50 | 0.5 | Pass |

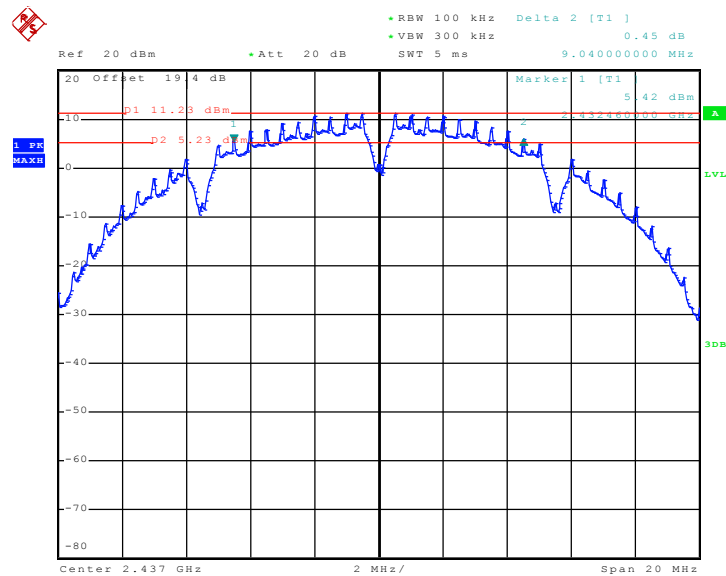
3.1.6 Test Result of 6dB Bandwidth Plots

Mode 1 : 6 dB Bandwidth Plot on 802.11b Channel 01

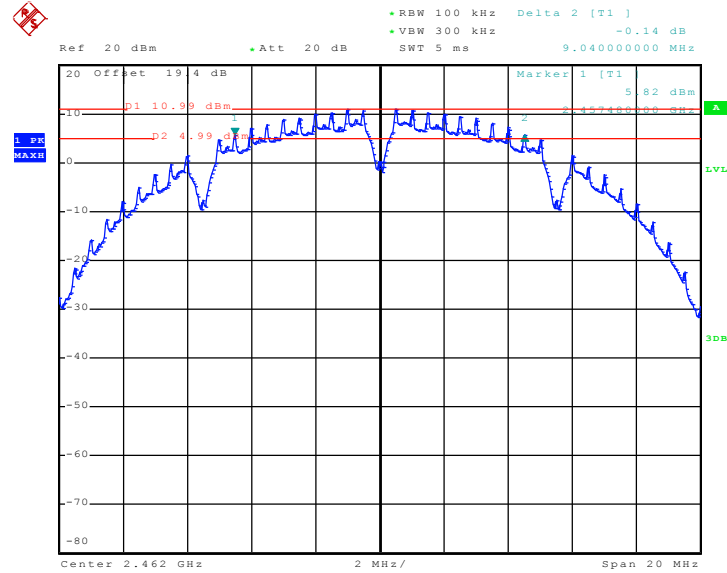


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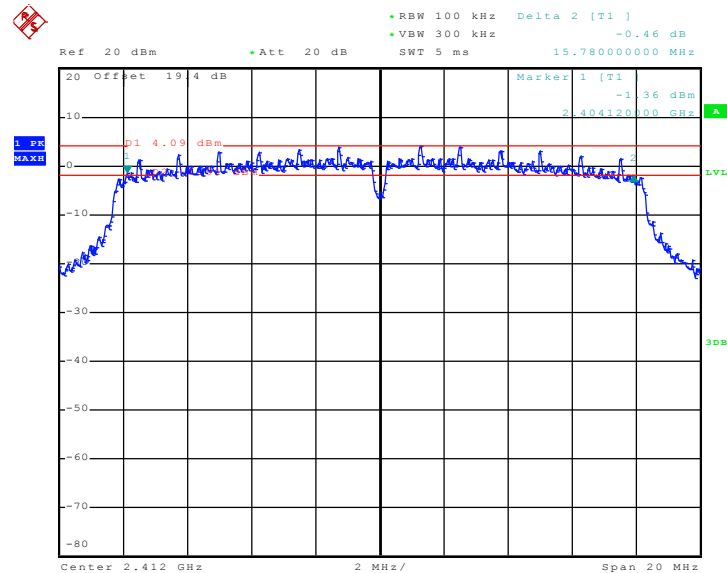
Mode 2 : 6 dB Bandwidth Plot on 802.11b Channel 06



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Mode 3 : 6 dB Bandwidth Plot on 802.11b Channel 11


Date: 28.JUN.2011 11:34:54

Mode 4 : 6 dB Bandwidth Plot on 802.11g Channel 01


Date: 28.JUN.2011 12:03:16

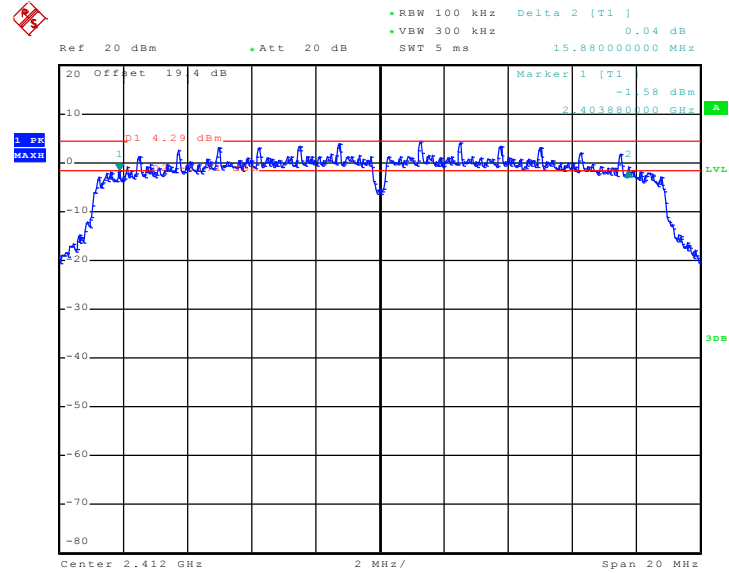


Mode 6 : 6 dB Bandwidth Plot on 802.11g Channel 11



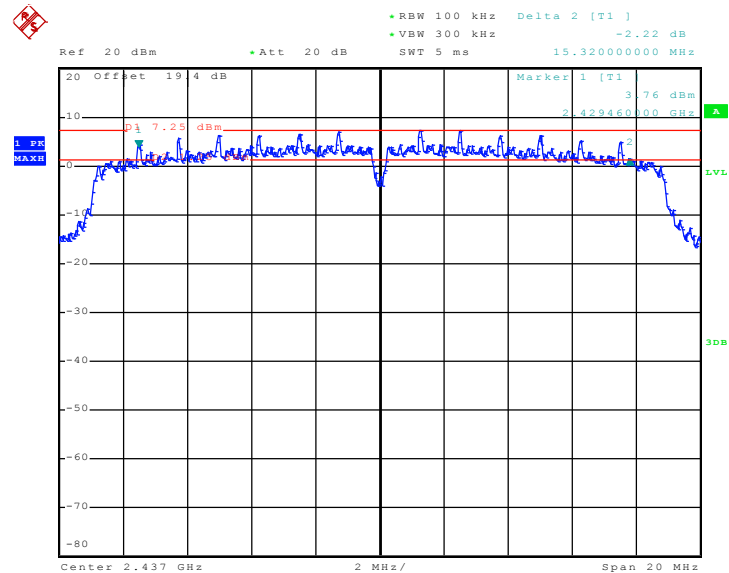


Mode 7 : 6 dB Bandwidth Plot on 802.11n Channel 01

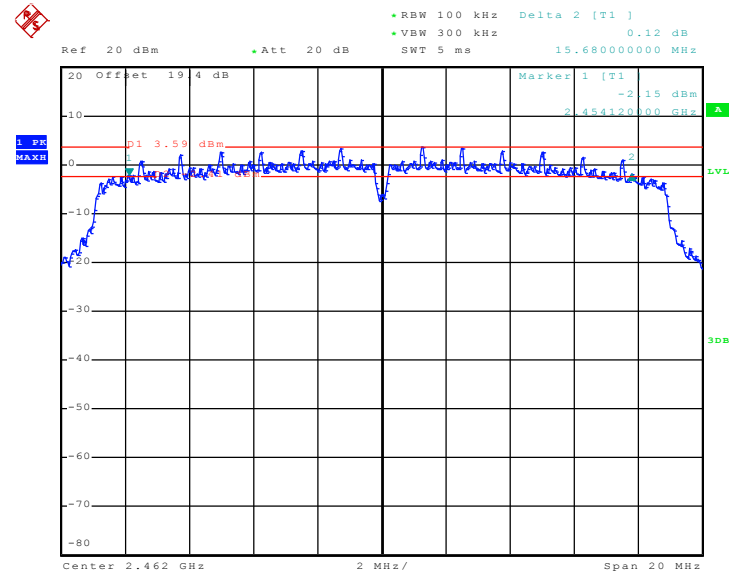


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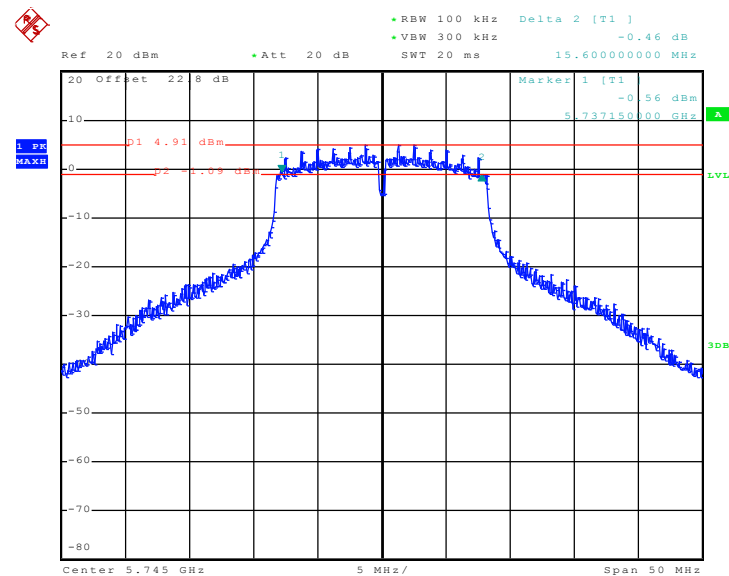
Mode 8 : 6 dB Bandwidth Plot on 802.11n Channel 06



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Mode 9 : 6 dB Bandwidth Plot on 802.11n Channel 11


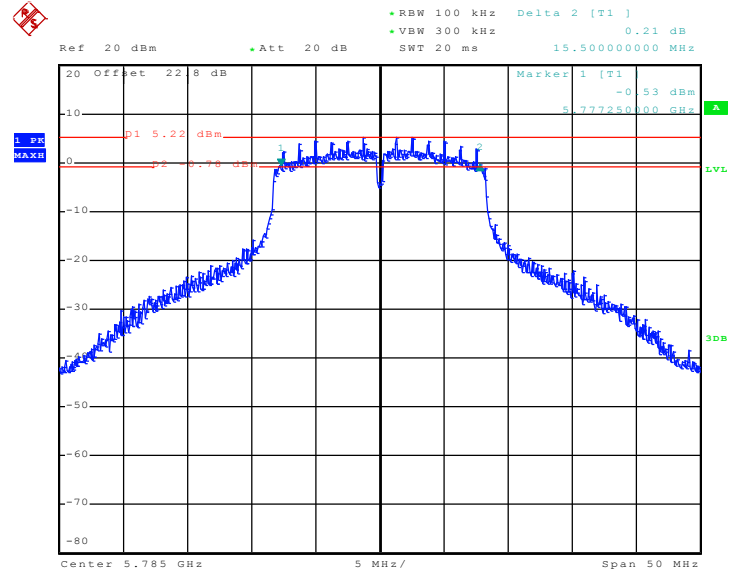
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Mode 10: 6 dB Bandwidth Plot on 802.11a Channel 149


Date: 28.JUN.2011 15:08:59

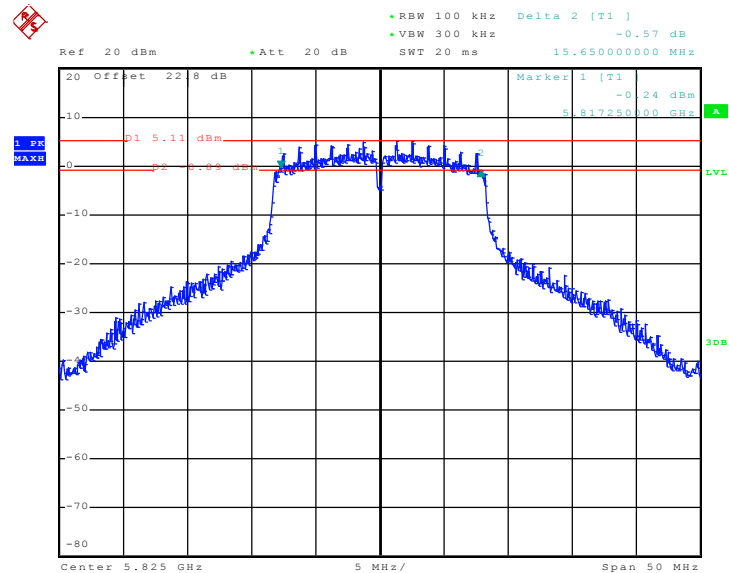


Mode 11: 6 dB Bandwidth Plot on 802.11a Channel 157

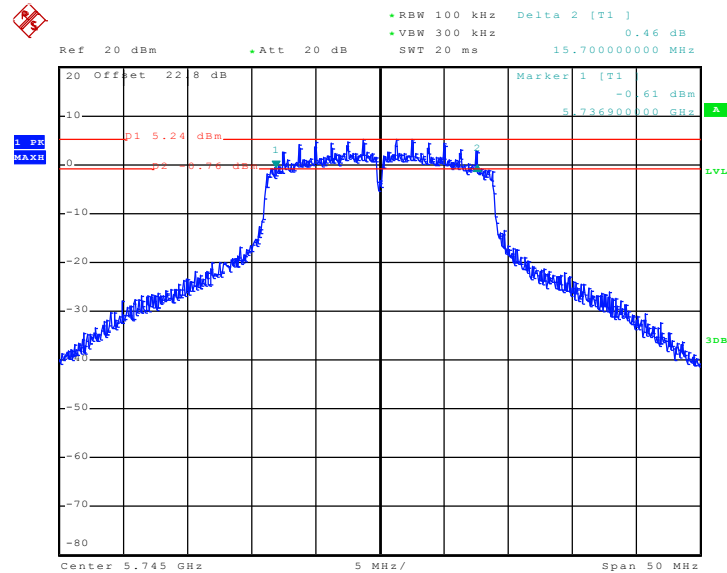


Date: 28.JUN.2011 15:26:36

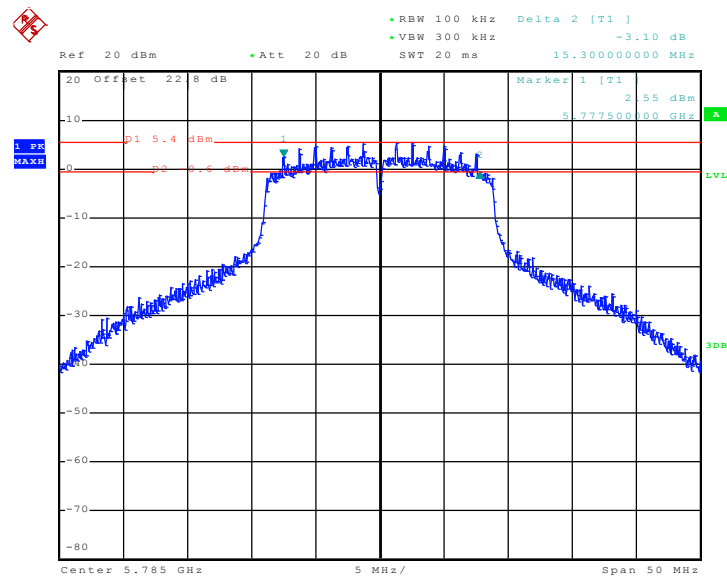
Mode 12: 6 dB Bandwidth Plot on 802.11a Channel 165



Date: 28.JUN.2011 15:40:35

Mode 13: 6 dB Bandwidth Plot on 802.11n Channel 149


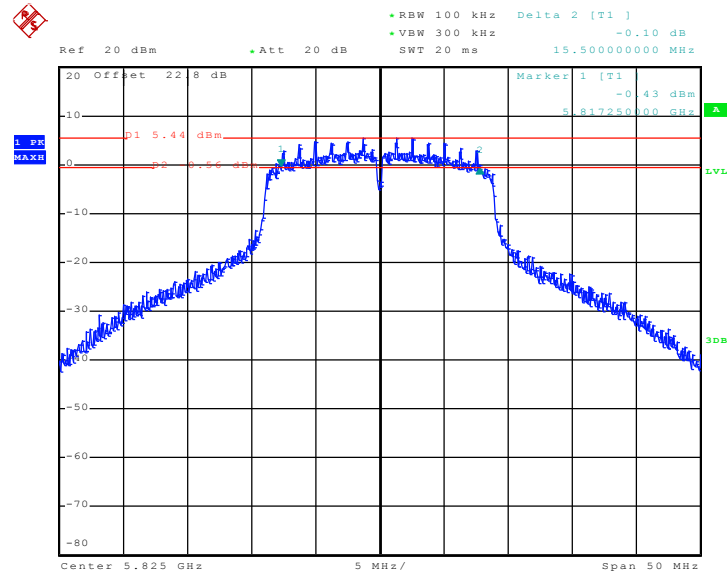
Date: 28.JUN.2011 17:04:23

Mode 14: 6 dB Bandwidth Plot on 802.11n Channel 157


Date: 28.JUN.2011 17:20:06



Mode 15: 6 dB Bandwidth Plot on 802.11n Channel 165



Date: 28.JUN.2011 16:48:01

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz and 5725-5850MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

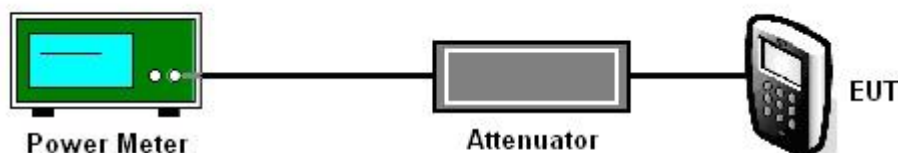
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. The RF output of EUT was connected to the power meter by a low loss cable.
3. Measure the power by power meter.

3.2.4 Test Setup



3.2.5 Test Result of Output Power

| | | | |
|------------------------|--------------|----------------------------|---------|
| Test Mode : | Mode 1, 2, 3 | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11b Measured Output Power (dBm) | Max. Limits (dBm) | Pass/Fail |
|---------|-----------------|--|-------------------|-----------|
| 01 | 2412 | 19.91 | 30 | Pass |
| 06 | 2437 | 22.58 | 30 | Pass |
| 11 | 2462 | 22.18 | 30 | Pass |

| | | | |
|------------------------|--------------|----------------------------|---------|
| Test Mode : | Mode 4, 5, 6 | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11g Measured Output Power (dBm) | Max. Limits (dBm) | Pass/Fail |
|---------|-----------------|--|-------------------|-----------|
| 01 | 2412 | 24.04 | 30 | Pass |
| 06 | 2437 | 24.51 | 30 | Pass |
| 11 | 2462 | 24.22 | 30 | Pass |

| | | | |
|------------------------|--------------|----------------------------|---------|
| Test Mode : | Mode 7, 8, 9 | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11n (BW 20MHz) Measured Output Power (dBm) | Max. Limits (dBm) | Pass/Fail |
|---------|-----------------|---|-------------------|-----------|
| 01 | 2412 | 23.82 | 30 | Pass |
| 06 | 2437 | 24.47 | 30 | Pass |
| 11 | 2462 | 24.00 | 30 | Pass |

| | | | |
|------------------------|-----------------|----------------------------|---------|
| Test Mode : | Mode 10, 11, 12 | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11a Measured Output Power (dBm) | Max. Limits (dBm) | Pass/Fail |
|---------|-----------------|--|-------------------|-----------|
| 149 | 5745 | 22.34 | 30 | Pass |
| 157 | 5785 | 22.36 | 30 | Pass |
| 165 | 5825 | 22.12 | 30 | Pass |

| | | | |
|------------------------|-----------------|----------------------------|---------|
| Test Mode : | Mode 13, 14, 15 | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11n (BW 20MHz) Measured Output Power (dBm) | Max. Limits (dBm) | Pass/Fail |
|---------|-----------------|---|-------------------|-----------|
| 149 | 5745 | 22.30 | 30 | Pass |
| 157 | 5785 | 22.42 | 30 | Pass |
| 165 | 5825 | 22.40 | 30 | Pass |

3.3 Band Edges Measurement

3.3.1 Limit of Band Edges

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB.

3.3.2 Measuring Instruments

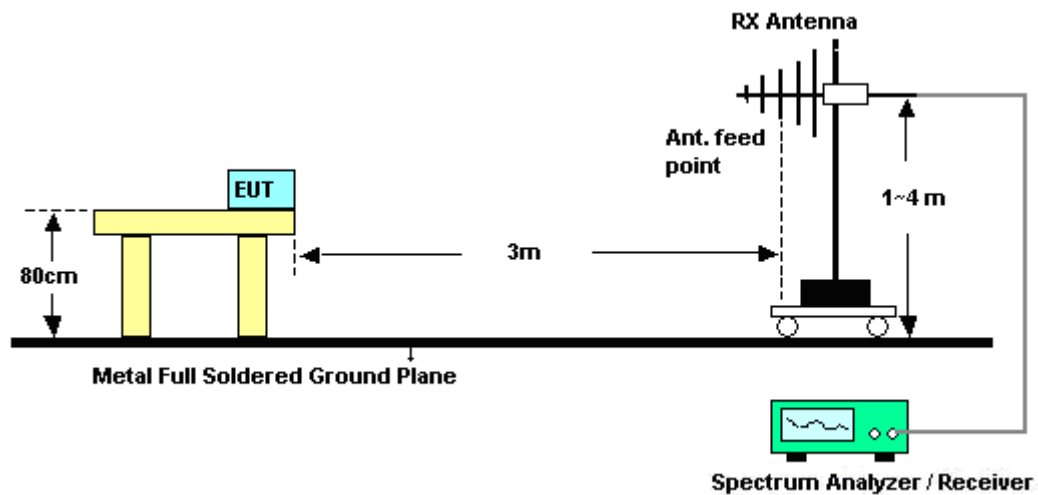
See list of measuring instruments of this test report.

3.3.3 Test Procedures

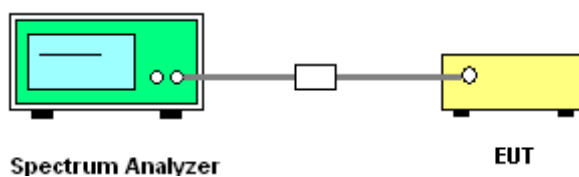
1. The testing follows the guidelines in ANSI C63.4-2003 and FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. Conducted emission test: Set RBW = 100 kHz, Video bandwidth (VBW) > RBW. Band edge emissions must be at least 20 dB below the highest emission level within the authorized band as measured with a 100 kHz RBW. Note: If the output power of this device was measured by power meter, the attenuation under this paragraph shall be 30 dB instead of 20 dB.
3. Radiated emission test: Apply to band edge emissions that fall in the restricted bands listed in FCC Section 15.205. The maximum permitted average field strength is listed in FCC Section 15.209. A pre-amp is necessary for this measurement. For measurements above 1 GHz, set RBW = 1MHz, VBW = 10 Hz, Sweep=Auto. If the emission is pulsed, modify the unit for continuous operation; use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation as in FCC Section 15.35(b) and (c).

3.3.4 Test Setup

<Radiated Band Edges>



<Conducted Band Edges>



3.3.5 Test Result of Radiated Band Edges

| | | | |
|-----------------------|---------|----------------------------|-----------|
| Test Mode : | Mode 1 | Temperature : | 22~26°C |
| Test Band : | 802.11b | Relative Humidity : | 51~55% |
| Test Channel : | 01 | Test Engineer : | Wii Chang |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2385.62 | 60.73 | -13.27 | 74 | 57.82 | 31.9 | 5.4 | 34.39 | 137 | 9 | Peak |
| 2385.62 | 52.48 | -1.52 | 54 | 49.57 | 31.9 | 5.4 | 34.39 | 137 | 9 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2385.62 | 59.72 | -14.28 | 74 | 56.81 | 31.9 | 5.4 | 34.39 | 100 | 285 | Peak |
| 2385.62 | 51.5 | -2.5 | 54 | 48.59 | 31.9 | 5.4 | 34.39 | 100 | 285 | Average |

| | | | |
|-----------------------|---------|----------------------------|-----------|
| Test Mode : | Mode 3 | Temperature : | 22~26°C |
| Test Band : | 802.11b | Relative Humidity : | 51~55% |
| Test Channel : | 11 | Test Engineer : | Wii Chang |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2487.65 | 58.45 | -15.55 | 74 | 55.3 | 32 | 5.52 | 34.37 | 156 | 2 | Peak |
| 2487.65 | 49.81 | -4.19 | 54 | 46.66 | 32 | 5.52 | 34.37 | 156 | 2 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2488.22 | 57.4 | -16.6 | 74 | 54.25 | 32 | 5.52 | 34.37 | 119 | 312 | Peak |
| 2488.22 | 47.73 | -6.27 | 54 | 44.58 | 32 | 5.52 | 34.37 | 119 | 312 | Average |



| | | | |
|-----------------------|---------|----------------------------|-----------|
| Test Mode : | Mode 4 | Temperature : | 22~26°C |
| Test Band : | 802.11b | Relative Humidity : | 51~55% |
| Test Channel : | 12 | Test Engineer : | Wii Chang |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2388 | 49.48 | -24.52 | 74 | 46.57 | 31.9 | 5.4 | 34.39 | 103 | 10 | Peak |
| 2388 | 35.34 | -18.66 | 54 | 32.43 | 31.9 | 5.4 | 34.39 | 103 | 10 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2388 | 50.14 | -23.86 | 74 | 47.23 | 31.9 | 5.4 | 34.39 | 100 | 289 | Peak |
| 2388 | 35.25 | -18.75 | 54 | 32.34 | 31.9 | 5.4 | 34.39 | 100 | 289 | Average |

| | | | |
|-----------------------|---------|----------------------------|-----------|
| Test Mode : | Mode 5 | Temperature : | 22~26°C |
| Test Band : | 802.11b | Relative Humidity : | 51~55% |
| Test Channel : | 13 | Test Engineer : | Wii Chang |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2486.13 | 58.61 | -15.39 | 74 | 55.48 | 31.98 | 5.52 | 34.37 | 100 | 0 | Peak |
| 2486.13 | 51.43 | -2.57 | 54 | 48.3 | 31.98 | 5.52 | 34.37 | 100 | 0 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2487.46 | 57.48 | -16.52 | 74 | 54.35 | 31.98 | 5.52 | 34.37 | 119 | 301 | Peak |
| 2487.46 | 49.52 | -4.48 | 54 | 46.39 | 31.98 | 5.52 | 34.37 | 119 | 301 | Average |

| | | | |
|-----------------------|---------|----------------------------|-----------|
| Test Mode : | Mode 6 | Temperature : | 22~26°C |
| Test Band : | 802.11g | Relative Humidity : | 51~55% |
| Test Channel : | 01 | Test Engineer : | Wii Chang |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2389.61 | 69.03 | -4.97 | 74 | 66.12 | 31.9 | 5.4 | 34.39 | 160 | 16 | Peak |
| 2389.61 | 47.61 | -6.39 | 54 | 44.7 | 31.9 | 5.4 | 34.39 | 160 | 16 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2389.61 | 66.04 | -7.96 | 74 | 63.13 | 31.9 | 5.4 | 34.39 | 118 | 326 | Peak |
| 2389.61 | 44.95 | -9.05 | 54 | 42.04 | 31.9 | 5.4 | 34.39 | 118 | 326 | Average |

| | | | |
|-----------------------|---------|----------------------------|-----------|
| Test Mode : | Mode 8 | Temperature : | 22~26°C |
| Test Band : | 802.11g | Relative Humidity : | 51~55% |
| Test Channel : | 11 | Test Engineer : | Wii Chang |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.85 | 63.6 | -10.4 | 74 | 60.47 | 31.98 | 5.52 | 34.37 | 157 | 2 | Peak |
| 2483.85 | 45.96 | -8.04 | 54 | 42.83 | 31.98 | 5.52 | 34.37 | 157 | 2 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.85 | 59.54 | -14.46 | 74 | 56.41 | 31.98 | 5.52 | 34.37 | 172 | 321 | Peak |
| 2483.85 | 43.97 | -10.03 | 54 | 40.84 | 31.98 | 5.52 | 34.37 | 172 | 321 | Average |

| | | | |
|-----------------------|---------|----------------------------|-----------|
| Test Mode : | Mode 9 | Temperature : | 22~26°C |
| Test Band : | 802.11g | Relative Humidity : | 51~55% |
| Test Channel : | 12 | Test Engineer : | Wii Chang |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2366 | 46.53 | -27.47 | 74 | 43.7 | 31.86 | 5.37 | 34.4 | 100 | 1 | Peak |
| 2366 | 34.35 | -19.65 | 54 | 31.52 | 31.86 | 5.37 | 34.4 | 100 | 1 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2316 | 45.52 | -28.48 | 74 | 42.81 | 31.81 | 5.31 | 34.41 | 117 | 300 | Peak |
| 2316 | 33.55 | -20.45 | 54 | 30.84 | 31.81 | 5.31 | 34.41 | 117 | 300 | Average |

| | | | |
|-----------------------|---------|----------------------------|-----------|
| Test Mode : | Mode 10 | Temperature : | 22~26°C |
| Test Band : | 802.11g | Relative Humidity : | 51~55% |
| Test Channel : | 13 | Test Engineer : | Wii Chang |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.37 | 58.39 | -15.61 | 74 | 55.26 | 31.98 | 5.52 | 34.37 | 189 | 7 | Peak |
| 2483.37 | 45.03 | -8.97 | 54 | 41.9 | 31.98 | 5.52 | 34.37 | 189 | 7 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.5 | 56.37 | -17.63 | 74 | 53.24 | 31.98 | 5.52 | 34.37 | 100 | 285 | Peak |
| 2483.5 | 43.26 | -10.74 | 54 | 40.13 | 31.98 | 5.52 | 34.37 | 100 | 285 | Average |

| | | | |
|-----------------------|--------------------|----------------------------|-----------|
| Test Mode : | Mode 11 | Temperature : | 22~26°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 51~55% |
| Test Channel : | 01 | Test Engineer : | Wii Chang |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2389.61 | 71.97 | -2.03 | 74 | 69.06 | 31.9 | 5.4 | 34.39 | 161 | 360 | Peak |
| 2389.61 | 48.28 | -5.72 | 54 | 45.37 | 31.9 | 5.4 | 34.39 | 161 | 360 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2389.99 | 68.29 | -5.71 | 74 | 65.38 | 31.9 | 5.4 | 34.39 | 143 | 315 | Peak |
| 2389.99 | 45.5 | -8.5 | 54 | 42.59 | 31.9 | 5.4 | 34.39 | 143 | 315 | Average |

| | | | |
|-----------------------|--------------------|----------------------------|-----------|
| Test Mode : | Mode 13 | Temperature : | 22~26°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 51~55% |
| Test Channel : | 11 | Test Engineer : | Wii Chang |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.66 | 65.56 | -8.44 | 74 | 62.43 | 31.98 | 5.52 | 34.37 | 157 | 2 | Peak |
| 2483.66 | 45.67 | -8.33 | 54 | 42.54 | 31.98 | 5.52 | 34.37 | 157 | 2 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2485.18 | 62.59 | -11.41 | 74 | 59.46 | 31.98 | 5.52 | 34.37 | 114 | 320 | Peak |
| 2485.18 | 45.2 | -8.8 | 54 | 42.07 | 31.98 | 5.52 | 34.37 | 114 | 320 | Average |

| | | | |
|-----------------------|--------------------|----------------------------|-----------|
| Test Mode : | Mode 14 | Temperature : | 22~26°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 51~55% |
| Test Channel : | 12 | Test Engineer : | Wii Chang |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2356 | 47.32 | -26.68 | 74 | 44.53 | 31.86 | 5.34 | 34.41 | 104 | 12 | Peak |
| 2356 | 35.38 | -18.62 | 54 | 32.59 | 31.86 | 5.34 | 34.41 | 104 | 12 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2388 | 47.54 | -26.46 | 74 | 44.63 | 31.9 | 5.4 | 34.39 | 100 | 288 | Peak |
| 2388 | 34.95 | -19.05 | 54 | 32.04 | 31.9 | 5.4 | 34.39 | 100 | 288 | Average |

| | | | |
|-----------------------|--------------------|----------------------------|-----------|
| Test Mode : | Mode 15 | Temperature : | 22~26°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 51~55% |
| Test Channel : | 13 | Test Engineer : | Wii Chang |

| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.66 | 59.27 | -14.73 | 74 | 56.14 | 31.98 | 5.52 | 34.37 | 188 | 9 | Peak |
| 2483.66 | 44.86 | -9.14 | 54 | 41.73 | 31.98 | 5.52 | 34.37 | 188 | 9 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2483.66 | 56.96 | -17.04 | 74 | 53.83 | 31.98 | 5.52 | 34.37 | 100 | 284 | Peak |
| 2483.66 | 42.37 | -11.63 | 54 | 39.24 | 31.98 | 5.52 | 34.37 | 100 | 284 | Average |



| | | | |
|-----------------------|---------|----------------------------|-----------|
| Test Mode : | Mode 16 | Temperature : | 22~26°C |
| Test Band : | 802.11b | Relative Humidity : | 51~55% |
| Test Channel : | 01 | Test Engineer : | Wii Chang |

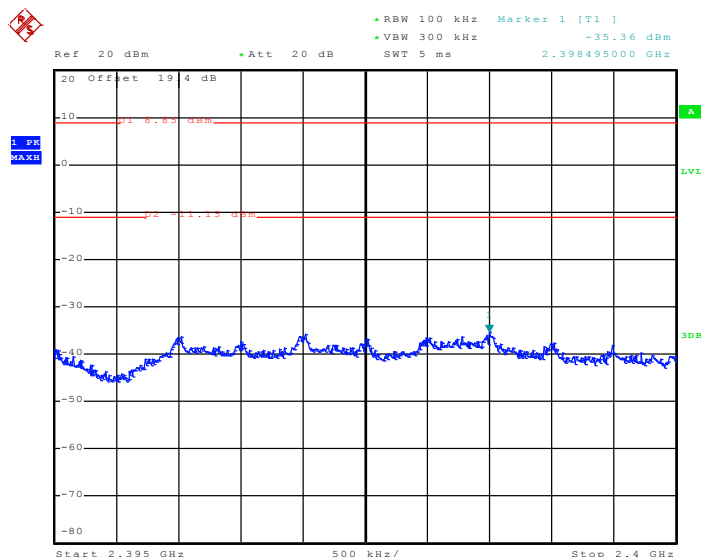
| ANTENNA POLARITY : HORIZONTAL | | | | | | | | | | |
|-------------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2492 | 51.84 | -22.16 | 74 | 48.69 | 32 | 5.52 | 34.37 | 100 | 110 | Peak |
| 2492 | 34.56 | -19.44 | 54 | 31.41 | 32 | 5.52 | 34.37 | 100 | 110 | Average |

| ANTENNA POLARITY : VERTICAL | | | | | | | | | | |
|-----------------------------|---------------------|-------------------------|-----------------------------|---------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
| 2492 | 51.84 | -22.16 | 74 | 48.69 | 32 | 5.52 | 34.37 | 100 | 2 | Peak |
| 2492 | 34.13 | -19.87 | 54 | 30.98 | 32 | 5.52 | 34.37 | 100 | 2 | Average |

3.3.6 Test Result of Conducted Band Edges

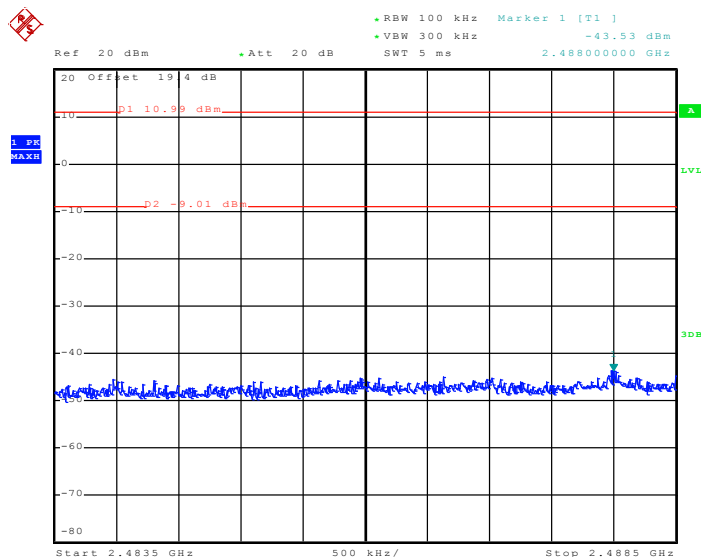
| | | | |
|-----------------------|--------------|----------------------------|-------------|
| Test Mode : | Mode 1 and 3 | Temperature : | 24~26℃ |
| Test Band : | 802.11b | Relative Humidity : | 50~53% |
| Test Channel : | 01 and 11 | Test Engineer : | Pinkston Tu |

Low Band Edge Plot on 802.11b Channel 01



Date: 28.JUN.2011 11:05:36

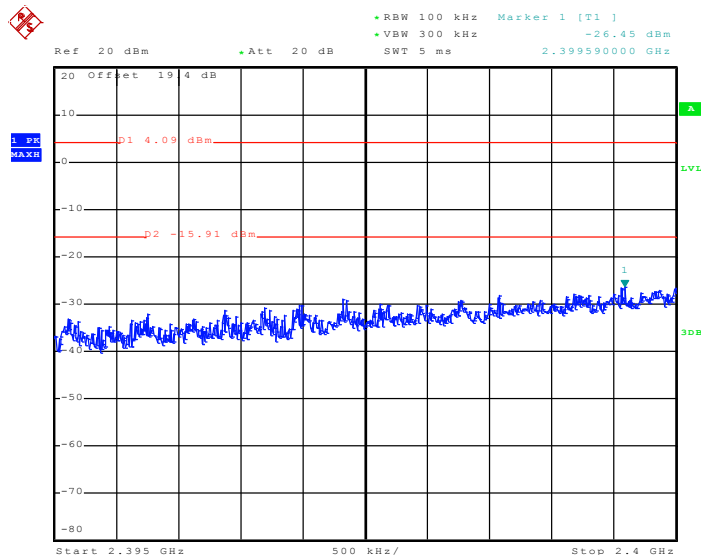
High Band Edge Plot on 802.11b Channel 11



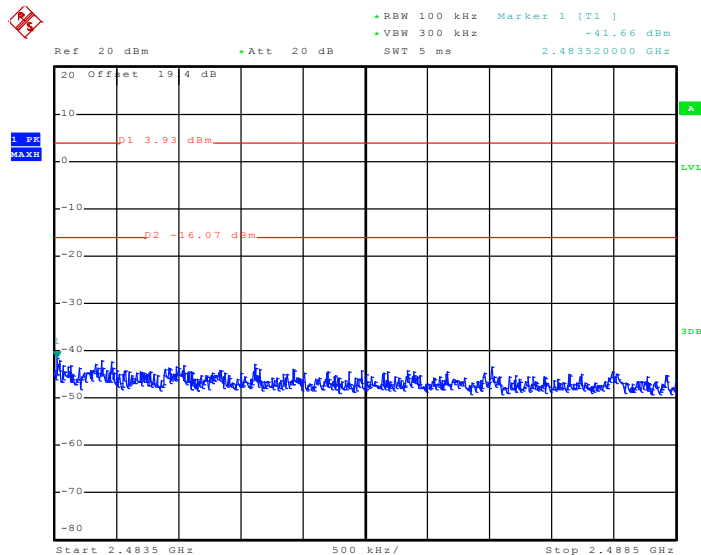
Date: 28.JUN.2011 11:35:40



| | | | |
|----------------|--------------|---------------------|-------------|
| Test Mode : | Mode 4 and 6 | Temperature : | 24~26°C |
| Test Band : | 802.11g | Relative Humidity : | 50~53% |
| Test Channel : | 01 and 11 | Test Engineer : | Pinkston Tu |

Low Band Edge Plot on 802.11g Channel 01

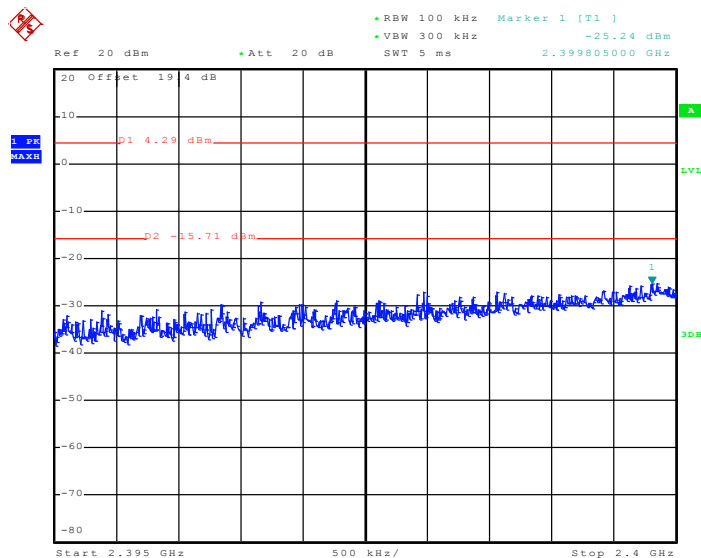
Date: 28.JUN.2011 12:04:25

High Band Edge Plot on 802.11g Channel 11

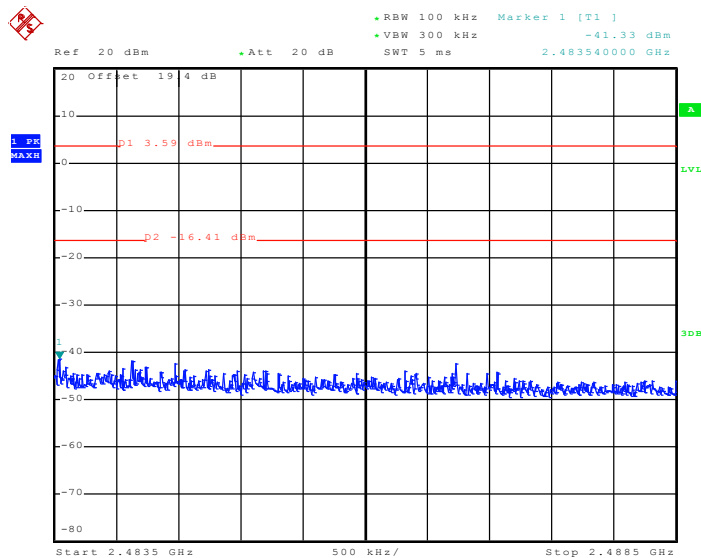
Date: 28.JUN.2011 11:50:52



| | | | |
|----------------|--------------------|---------------------|-------------|
| Test Mode : | Mode 7 and 9 | Temperature : | 24~26°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 50~53% |
| Test Channel : | 01 and 11 | Test Engineer : | Pinkston Tu |

Low Band Edge Plot on 802.11n Channel 01

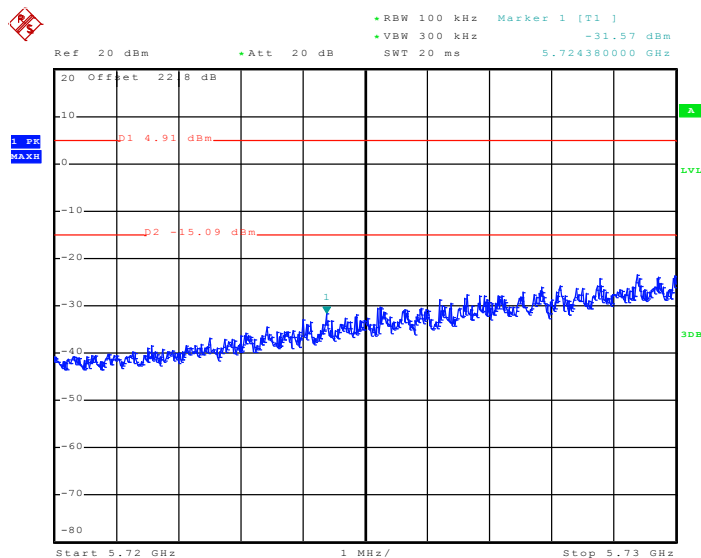
Date: 28.JUN.2011 13:55:16

High Band Edge Plot on 802.11n Channel 11

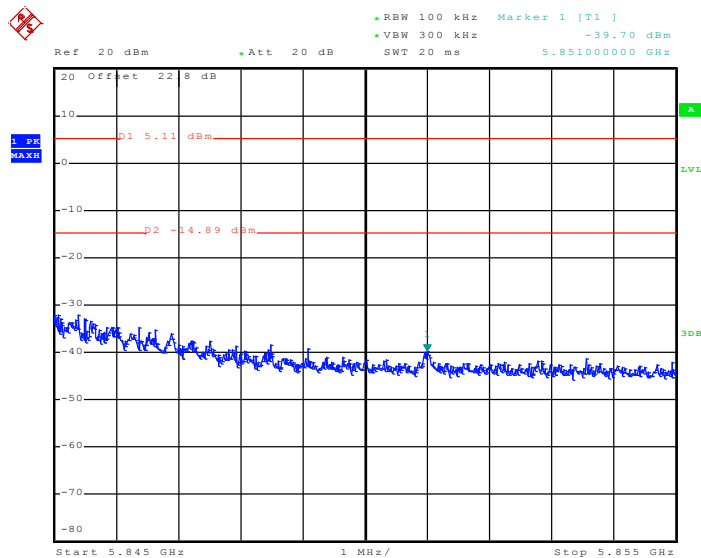
Date: 28.JUN.2011 14:29:32



| | | | |
|----------------|----------------|---------------------|-------------|
| Test Mode : | Mode 10 and 12 | Temperature : | 24~26°C |
| Test Band : | 802.11a | Relative Humidity : | 50~53% |
| Test Channel : | 149 and 165 | Test Engineer : | Pinkston Tu |

Low Band Edge Plot on 802.11a Channel 149

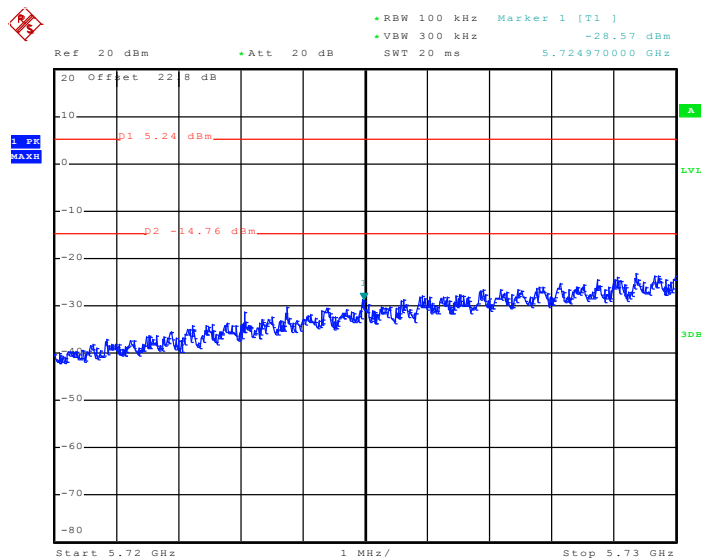
Date: 28.JUN.2011 15:09:25

High Band Edge Plot on 802.11a Channel 165

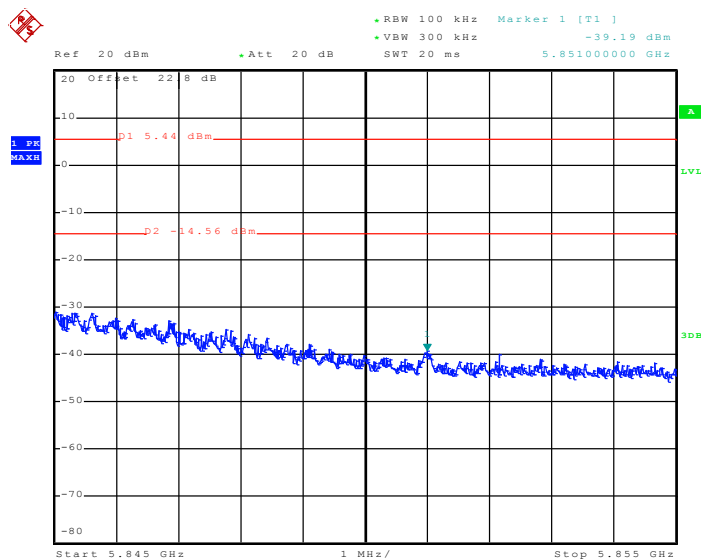
Date: 28.JUN.2011 15:41:01



| | | | |
|----------------|--------------------|---------------------|-------------|
| Test Mode : | Mode 13 and 15 | Temperature : | 24~26°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 50~53% |
| Test Channel : | 149 and 165 | Test Engineer : | Pinkston Tu |

Low Band Edge Plot on 802.11n Channel 149

Date: 28.JUN.2011 17:04:49

High Band Edge Plot on 802.11n Channel 165

Date: 28.JUN.2011 16:48:27

3.4 Spurious Emission Measurement

3.4.1 Limit of Spurious Emission Measurement

All harmonics/spurious must be at least 20 dB down from the highest emission level within the authorized band.

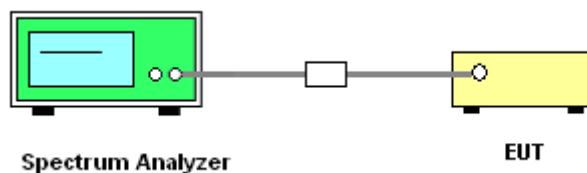
3.4.2 Measuring Instruments

See list of measuring instruments of this test report.

3.4.3 Test Procedure

1. The transmitter output was connected to the spectrum analyzer via a low lose cable.
2. Set RBW = 100 kHz, Video bandwidth (VBW) > RBW, scan up through 10th harmonic. All harmonics/spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.

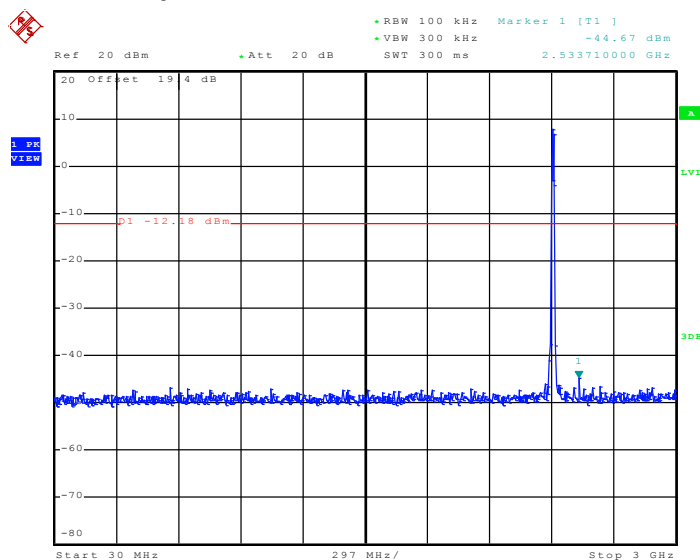
3.4.4 Test Setup



3.4.5 Test Result

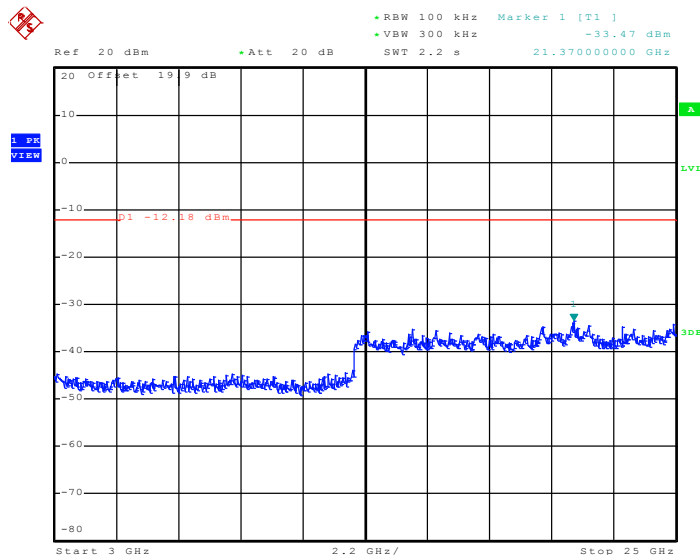
| | | | |
|----------------|---------|---------------------|-------------|
| Test Mode : | Mode 1 | Temperature : | 24~26°C |
| Test Band : | 802.11b | Relative Humidity : | 50~53% |
| Test Channel : | 01 | Test Engineer : | Pinkston Tu |

Conducted Spurious Emission Plot between 30MHz ~ 3 GHz



Date: 28.JUN.2011 11:15:31

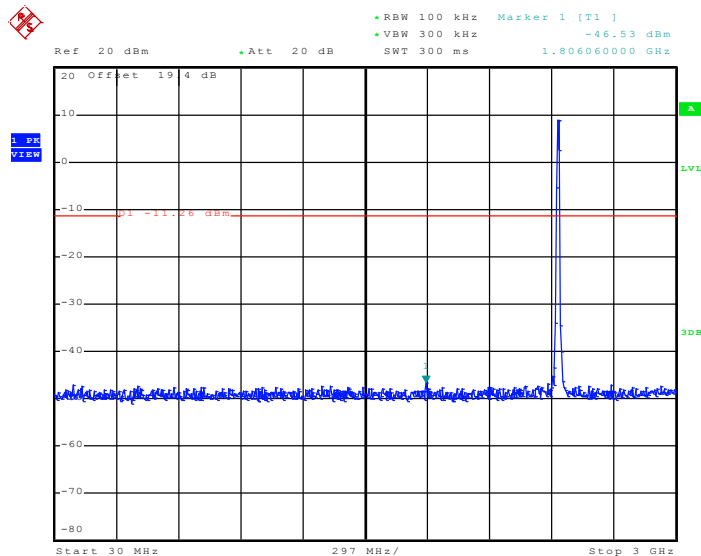
Conducted Spurious Emission Plot between 3 GHz ~ 25 GHz



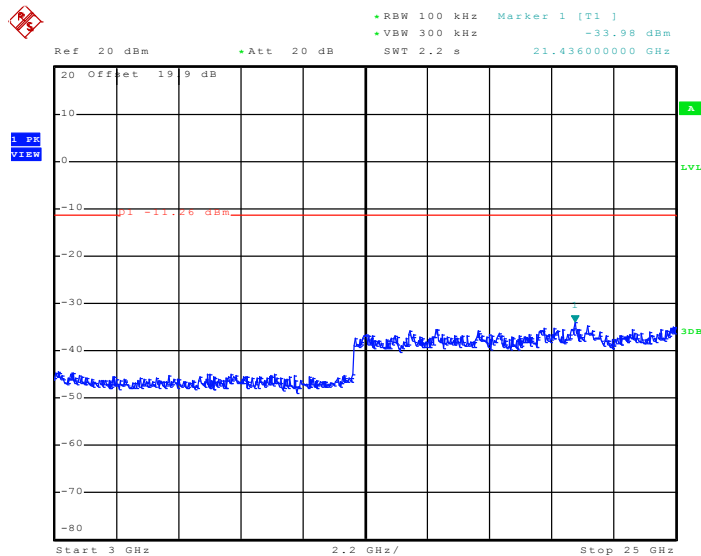
Date: 28.JUN.2011 16:23:22



| | | | |
|----------------|---------|---------------------|-------------|
| Test Mode : | Mode 2 | Temperature : | 24~26°C |
| Test Band : | 802.11b | Relative Humidity : | 50~53% |
| Test Channel : | 06 | Test Engineer : | Pinkston Tu |

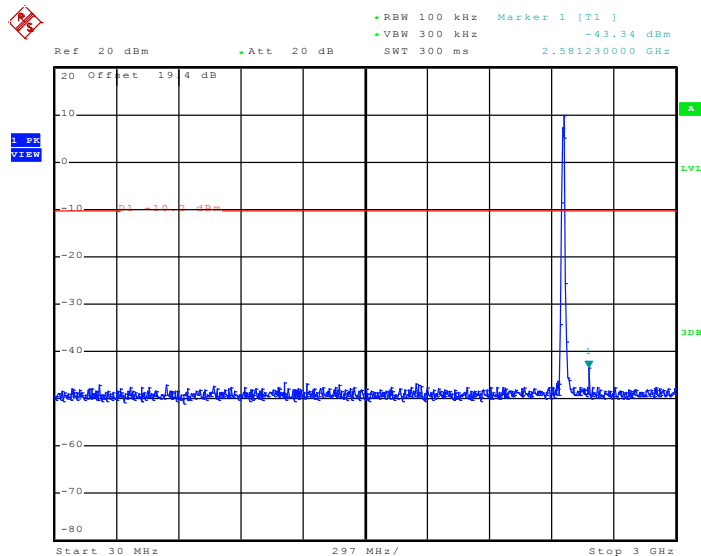
Conducted Spurious Emission Plot between 30MHz ~ 3 GHz

Date: 28.JUN.2011 11:31:52

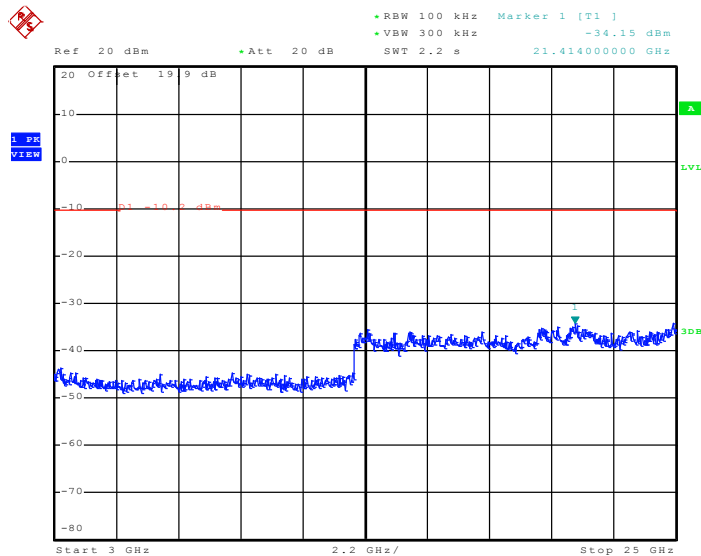
Conducted Spurious Emission Plot between 3 GHz ~ 25 GHz

Date: 28.JUN.2011 16:24:25

| | | | |
|-----------------------|---------|----------------------------|-------------|
| Test Mode : | Mode 3 | Temperature : | 24~26°C |
| Test Band : | 802.11b | Relative Humidity : | 50~53% |
| Test Channel : | 11 | Test Engineer : | Pinkston Tu |

Conducted Spurious Emission Plot between 30MHz ~ 3 GHz


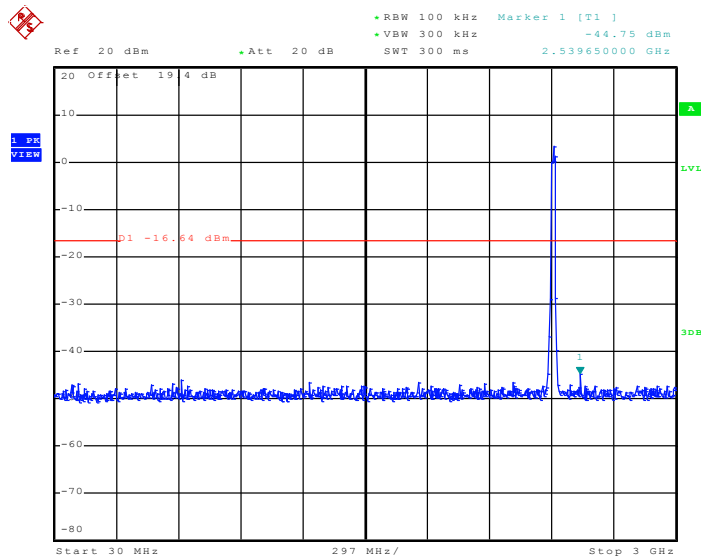
Date: 28.JUN.2011 11:45:03

Conducted Spurious Emission Plot between 3 GHz ~ 25 GHz


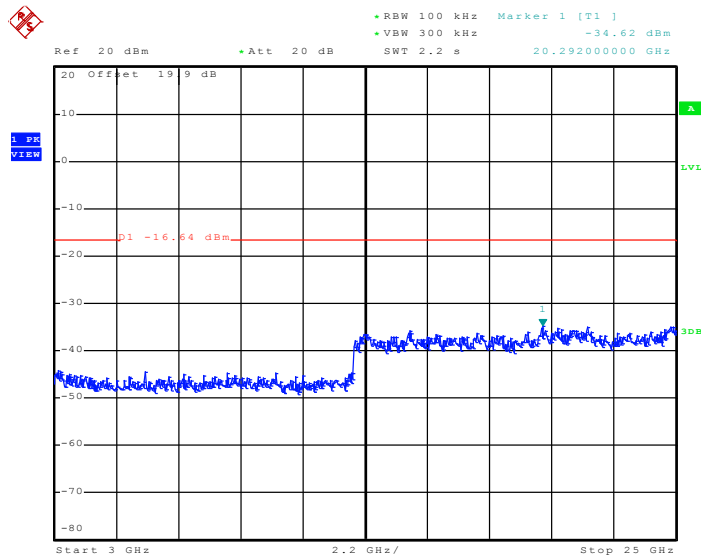
Date: 28.JUN.2011 16:25:34



| | | | |
|----------------|---------|---------------------|-------------|
| Test Mode : | Mode 4 | Temperature : | 24~26°C |
| Test Band : | 802.11g | Relative Humidity : | 50~53% |
| Test Channel : | 01 | Test Engineer : | Pinkston Tu |

Conducted Spurious Emission Plot between 30MHz ~ 3 GHz

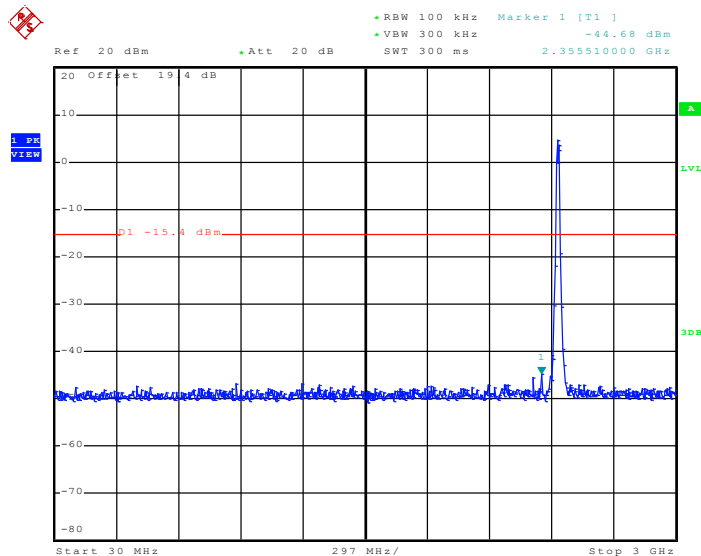
Date: 28.JUN.2011 12:23:13

Conducted Spurious Emission Plot between 3 GHz ~ 25 GHz

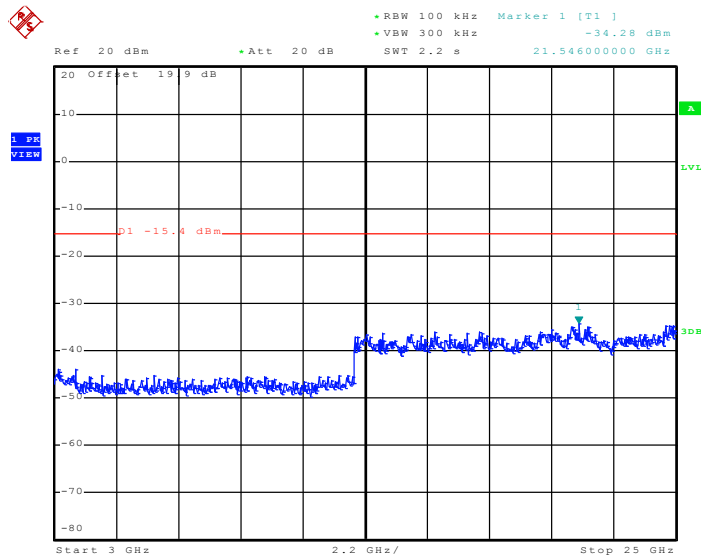
Date: 28.JUN.2011 16:27:01



| | | | |
|----------------|---------|---------------------|-------------|
| Test Mode : | Mode 5 | Temperature : | 24~26°C |
| Test Band : | 802.11g | Relative Humidity : | 50~53% |
| Test Channel : | 06 | Test Engineer : | Pinkston Tu |

Conducted Spurious Emission Plot between 30MHz ~ 3 GHz

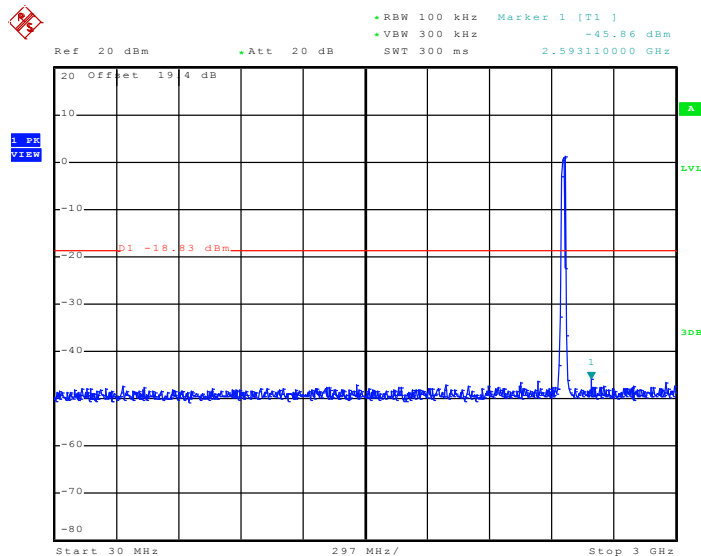
Date: 28.JUN.2011 13:48:04

Conducted Spurious Emission Plot between 3 GHz ~ 25 GHz

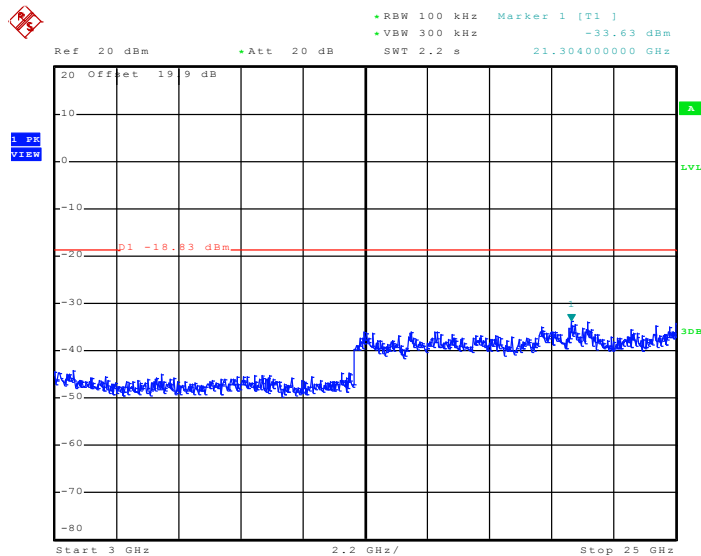
Date: 28.JUN.2011 16:28:15



| | | | |
|----------------|---------|---------------------|-------------|
| Test Mode : | Mode 6 | Temperature : | 24~26°C |
| Test Band : | 802.11g | Relative Humidity : | 50~53% |
| Test Channel : | 11 | Test Engineer : | Pinkston Tu |

Conducted Spurious Emission Plot between 30MHz ~ 3 GHz

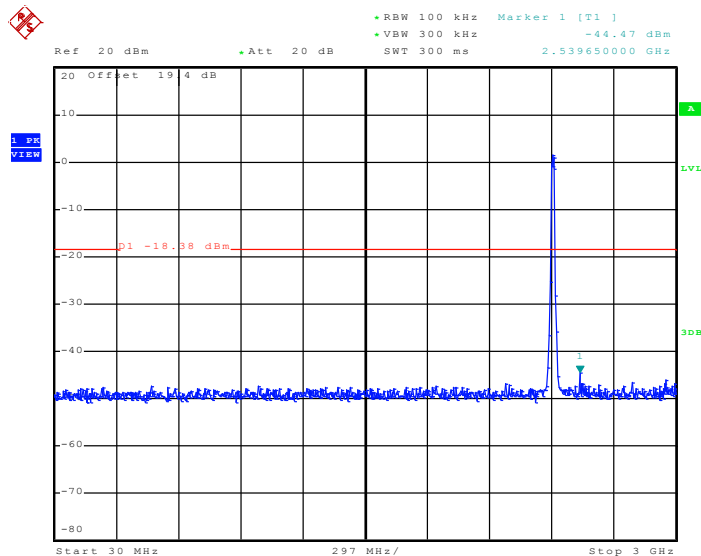
Date: 28.JUN.2011 12:00:49

Conducted Spurious Emission Plot between 3 GHz ~ 25 GHz

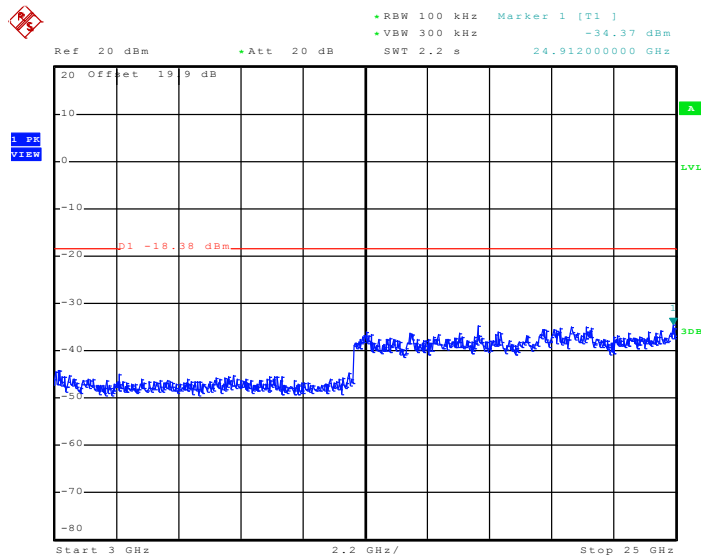
Date: 28.JUN.2011 16:29:33



| | | | |
|----------------|--------------------|---------------------|-------------|
| Test Mode : | Mode 7 | Temperature : | 24~26°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 50~53% |
| Test Channel : | 01 | Test Engineer : | Pinkston Tu |

Conducted Spurious Emission Plot between 30MHz ~ 3 GHz

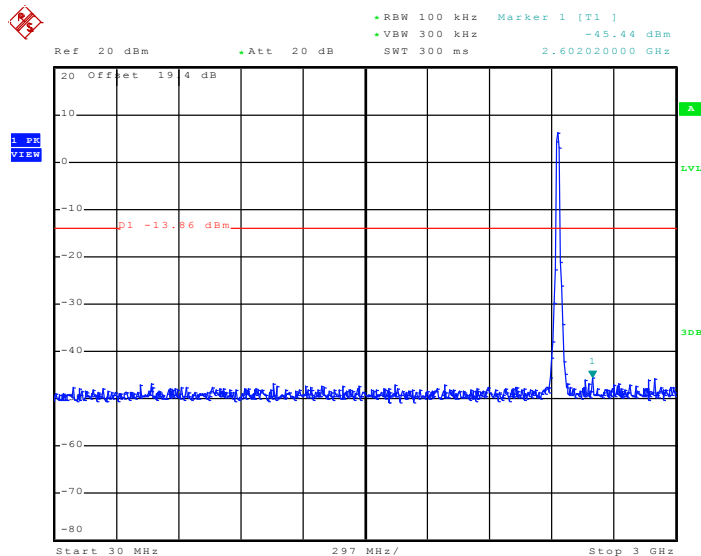
Date: 28.JUN.2011 14:07:04

Conducted Spurious Emission Plot between 3 GHz ~ 25 GHz

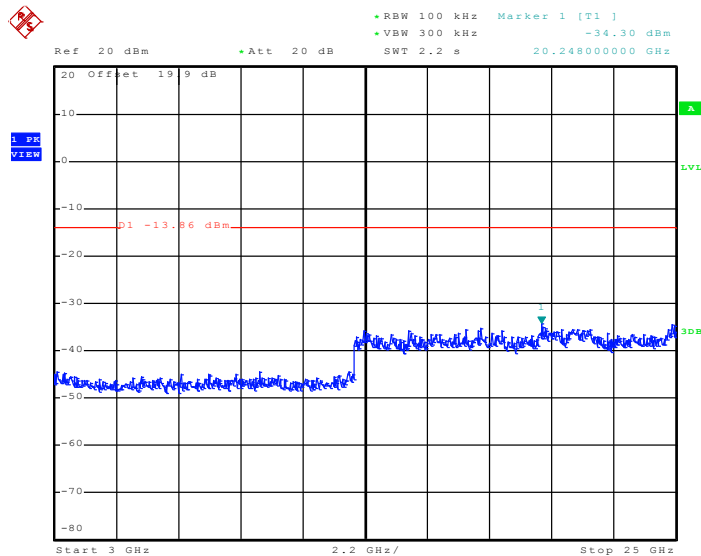
Date: 28.JUN.2011 16:42:22



| | | | |
|----------------|--------------------|---------------------|-------------|
| Test Mode : | Mode 8 | Temperature : | 24~26°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 50~53% |
| Test Channel : | 06 | Test Engineer : | Pinkston Tu |

Conducted Spurious Emission Plot between 30MHz ~ 3 GHz

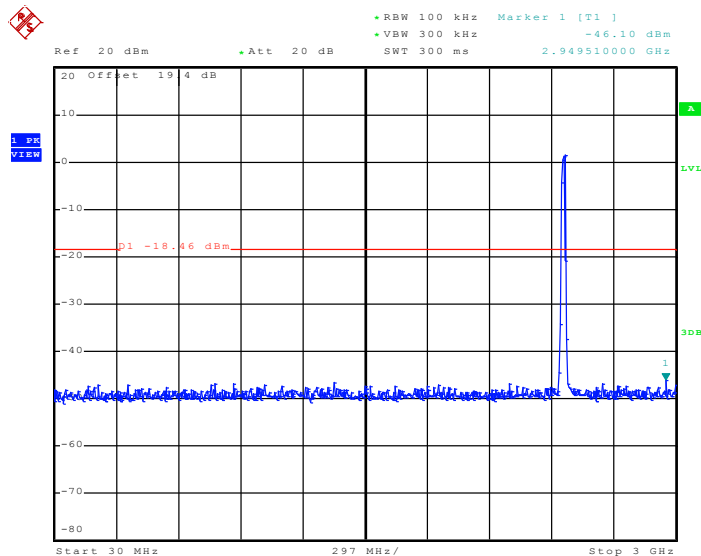
Date: 28.JUN.2011 14:19:12

Conducted Spurious Emission Plot between 3 GHz ~ 25 GHz

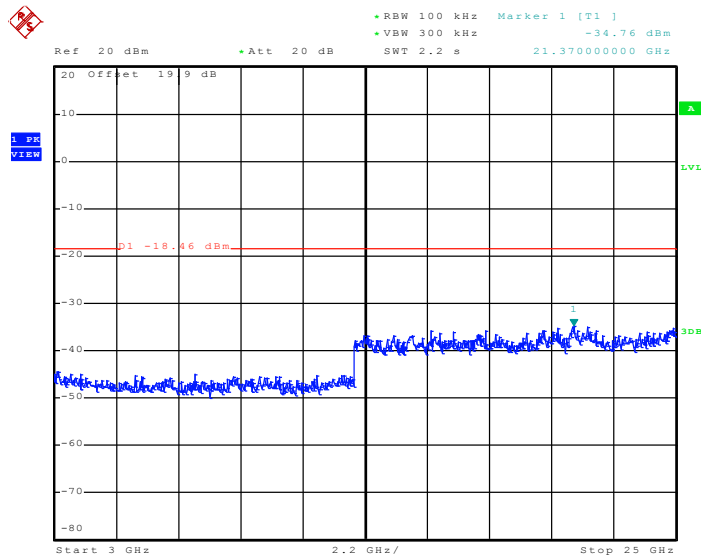
Date: 28.JUN.2011 16:32:41



| | | | |
|----------------|--------------------|---------------------|-------------|
| Test Mode : | Mode 9 | Temperature : | 24~26°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 50~53% |
| Test Channel : | 11 | Test Engineer : | Pinkston Tu |

Conducted Spurious Emission Plot between 30MHz ~ 3 GHz

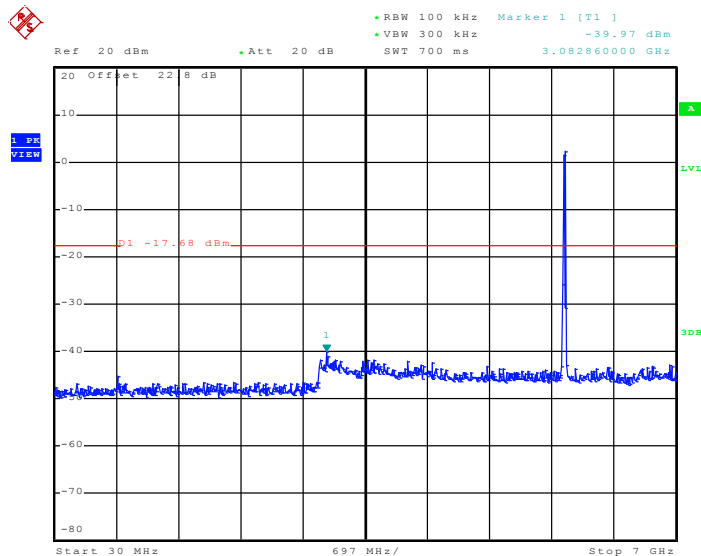
Date: 28.JUN.2011 14:41:59

Conducted Spurious Emission Plot between 3 GHz ~ 25 GHz

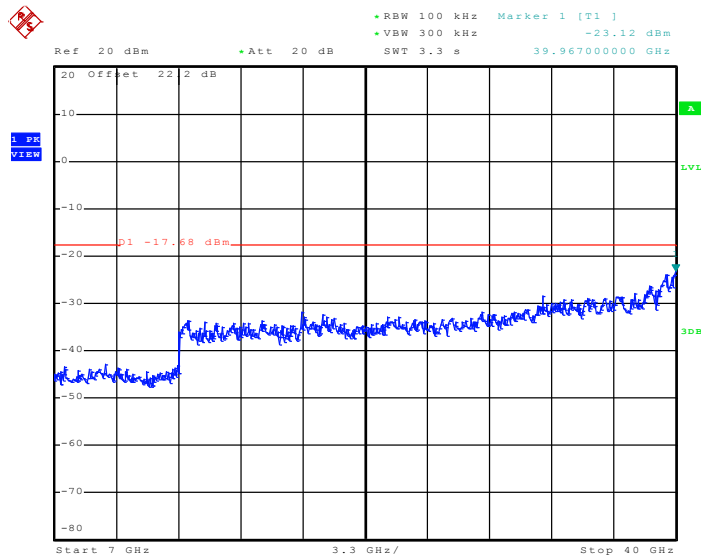
Date: 28.JUN.2011 16:33:47



| | | | |
|----------------|---------|---------------------|-------------|
| Test Mode : | Mode 10 | Temperature : | 24~26°C |
| Test Band : | 802.11a | Relative Humidity : | 50~53% |
| Test Channel : | 149 | Test Engineer : | Pinkston Tu |

Conducted Spurious Emission Plot between 30MHz ~ 7 GHz

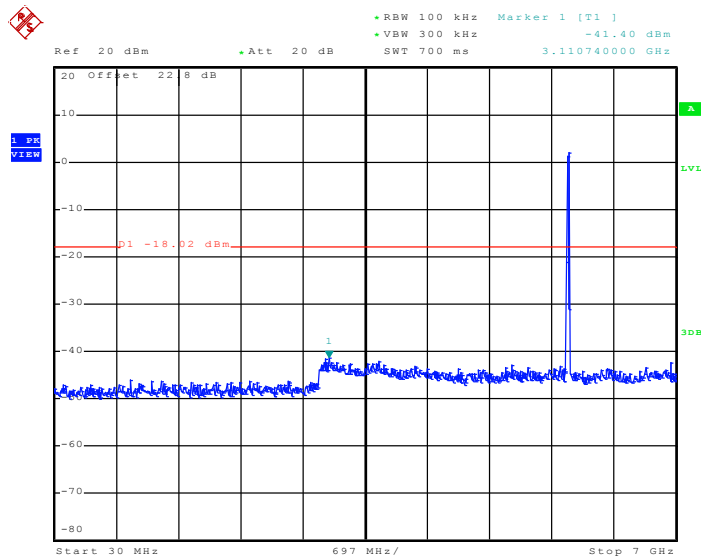
Date: 28.JUN.2011 15:19:01

Conducted Spurious Emission Plot between 7 GHz ~ 40 GHz

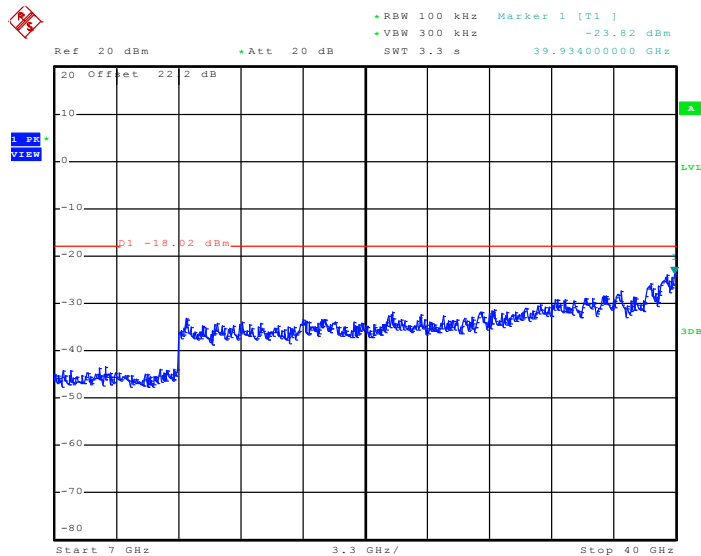
Date: 28.JUN.2011 16:09:11



| | | | |
|----------------|---------|---------------------|-------------|
| Test Mode : | Mode 11 | Temperature : | 24~26°C |
| Test Band : | 802.11a | Relative Humidity : | 50~53% |
| Test Channel : | 157 | Test Engineer : | Pinkston Tu |

Conducted Spurious Emission Plot between 30MHz ~ 7 GHz

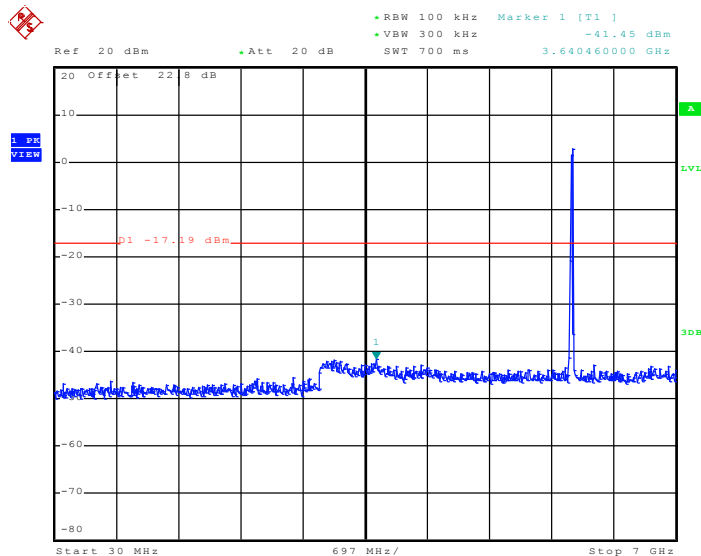
Date: 28.JUN.2011 15:36:44

Conducted Spurious Emission Plot between 7 GHz ~ 40 GHz

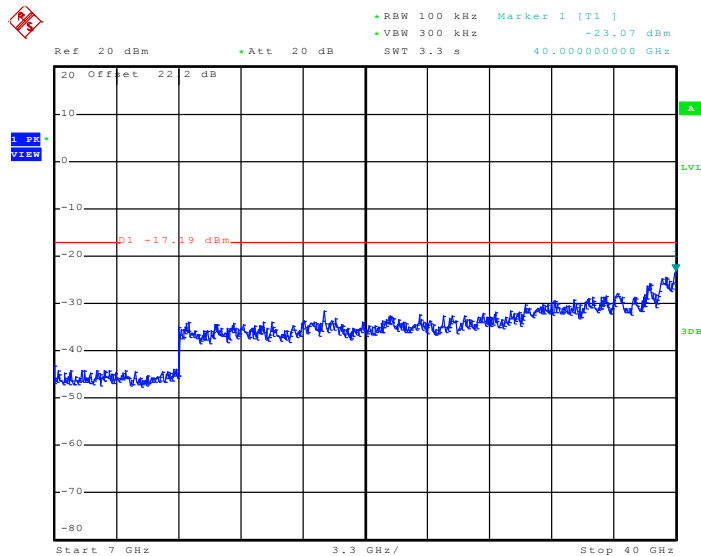
Date: 28.JUN.2011 16:06:49



| | | | |
|----------------|---------|---------------------|-------------|
| Test Mode : | Mode 12 | Temperature : | 24~26°C |
| Test Band : | 802.11a | Relative Humidity : | 50~53% |
| Test Channel : | 165 | Test Engineer : | Pinkston Tu |

Conducted Spurious Emission Plot between 30MHz ~ 7 GHz

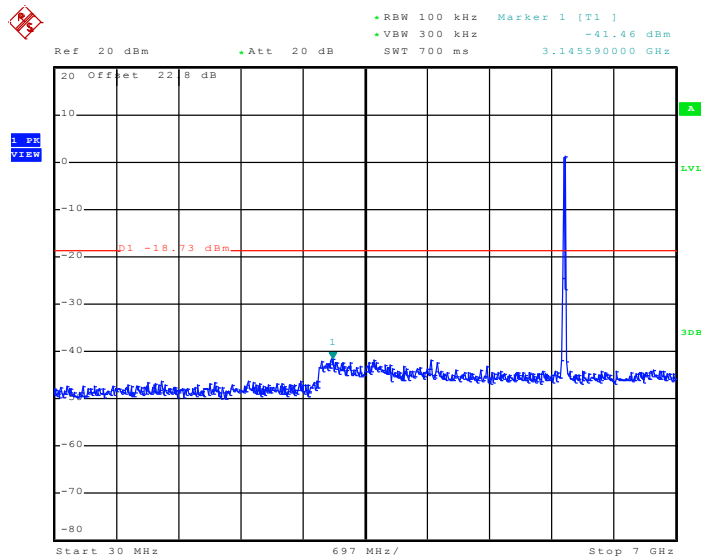
Date: 28.JUN.2011 15:50:47

Conducted Spurious Emission Plot between 7 GHz ~ 40 GHz

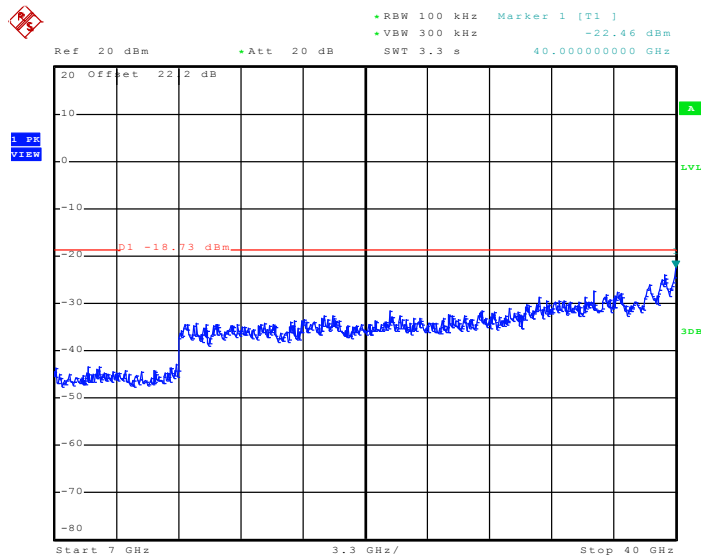
Date: 28.JUN.2011 16:17:43



| | | | |
|----------------|--------------------|---------------------|-------------|
| Test Mode : | Mode 13 | Temperature : | 24~26°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 50~53% |
| Test Channel : | 149 | Test Engineer : | Pinkston Tu |

Conducted Spurious Emission Plot between 30MHz ~ 7 GHz

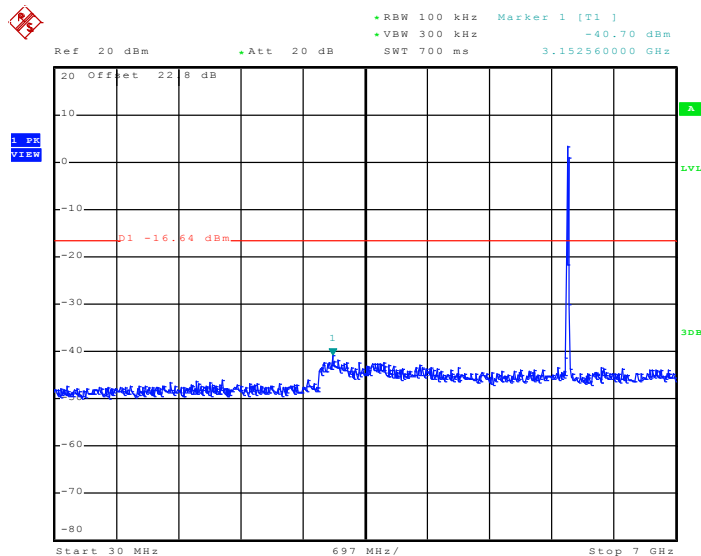
Date: 28.JUN.2011 17:14:18

Conducted Spurious Emission Plot between 7 GHz ~ 40 GHz

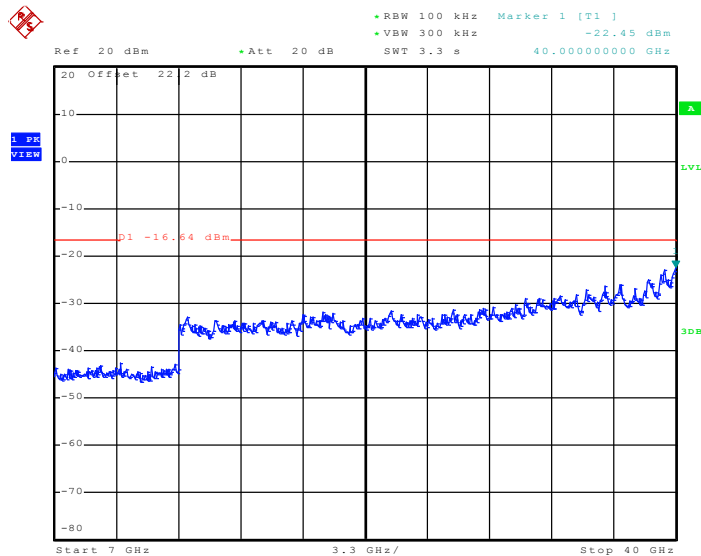
Date: 28.JUN.2011 17:37:17



| | | | |
|----------------|--------------------|---------------------|-------------|
| Test Mode : | Mode 14 | Temperature : | 24~26°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 50~53% |
| Test Channel : | 157 | Test Engineer : | Pinkston Tu |

Conducted Spurious Emission Plot between 30MHz ~ 7 GHz

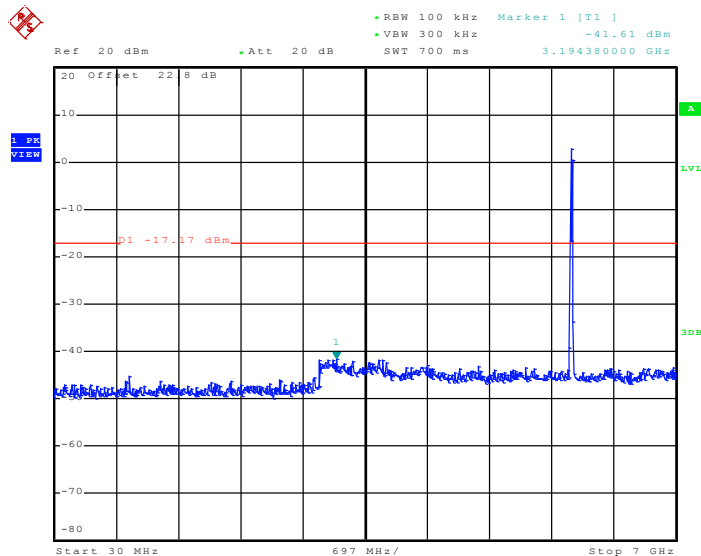
Date: 28.JUN.2011 17:29:36

Conducted Spurious Emission Plot between 7 GHz ~ 40 GHz

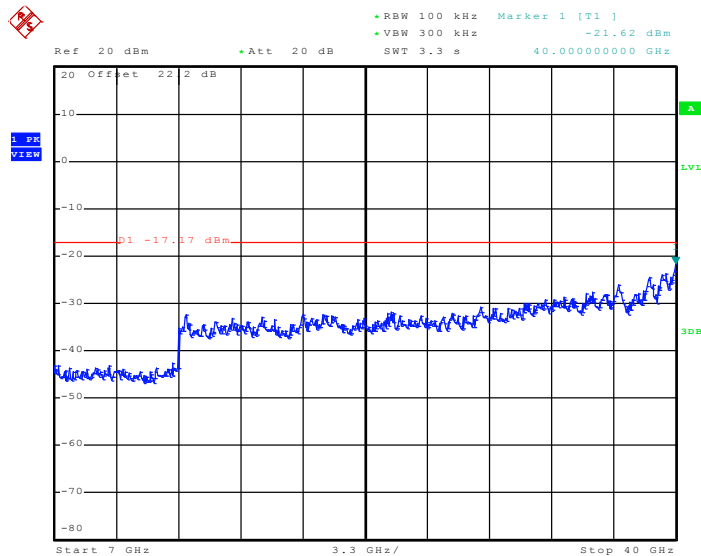
Date: 28.JUN.2011 17:36:21



| | | | |
|----------------|--------------------|---------------------|-------------|
| Test Mode : | Mode 15 | Temperature : | 24~26°C |
| Test Band : | 802.11n (BW 20MHz) | Relative Humidity : | 50~53% |
| Test Channel : | 165 | Test Engineer : | Pinkston Tu |

Conducted Spurious Emission Plot between 30MHz ~ 7 GHz

Date: 28.JUN.2011 16:58:53

Conducted Spurious Emission Plot between 7 GHz ~ 40 GHz

Date: 28.JUN.2011 17:01:38

3.5 Power Spectral Density Measurement

3.5.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

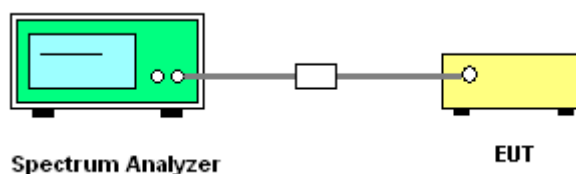
3.5.2 Measuring Instruments

See list of measuring instruments of this test report.

3.5.3 Test Procedures

1. The test follows FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Take the measured data from spectrum analyzer.

3.5.4 Test Setup



3.5.5 Test Result of Power Spectral Density

| | | | |
|------------------------|--------------|----------------------------|---------|
| Test Mode : | Mode 1, 2, 3 | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11b Measured PSD (dBm) | Max. Limits (dBm) | Pass/Fail |
|---------|-----------------|----------------------------|-------------------|-----------|
| 01 | 2412 | -4.30 | 8 | Pass |
| 06 | 2437 | -1.79 | 8 | Pass |
| 11 | 2462 | -2.29 | 8 | Pass |

| | | | |
|------------------------|--------------|----------------------------|---------|
| Test Mode : | Mode 4, 5, 6 | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11g Measured PSD (dBm) | Max. Limits (dBm) | Pass/Fail |
|---------|-----------------|----------------------------|-------------------|-----------|
| 01 | 2412 | -9.01 | 8 | Pass |
| 06 | 2437 | -6.65 | 8 | Pass |
| 11 | 2462 | -9.35 | 8 | Pass |

| | | | |
|------------------------|--------------|----------------------------|---------|
| Test Mode : | Mode 7, 8, 9 | Temperature : | 24~26°C |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11n (BW 20MHz) Measured PSD (dBm) | Max. Limits (dBm) | Pass/Fail |
|---------|-----------------|---------------------------------------|-------------------|-----------|
| 01 | 2412 | -8.61 | 8 | Pass |
| 06 | 2437 | -5.76 | 8 | Pass |
| 11 | 2462 | -9.39 | 8 | Pass |

| | | | |
|------------------------|-----------------|----------------------------|--------|
| Test Mode : | Mode 10, 11, 12 | Temperature : | 24~26℃ |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

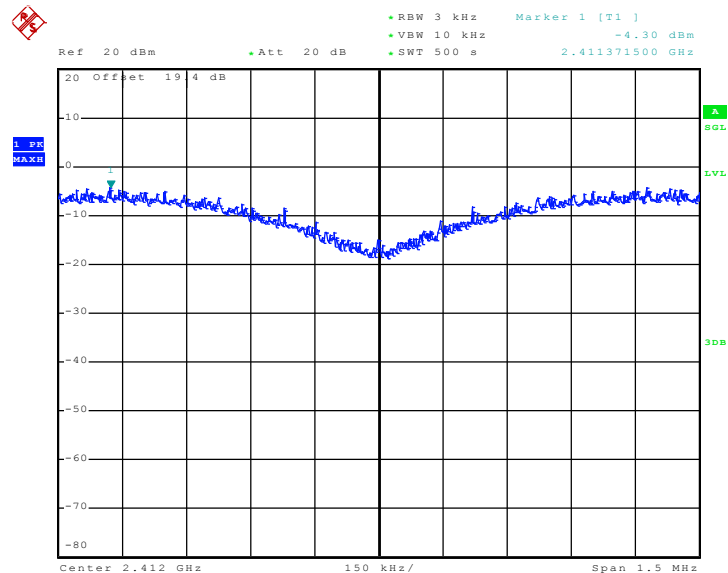
| Channel | Frequency (MHz) | 802.11a Measured PSD (dBm) | Max. Limits (dBm) | Pass/Fail |
|---------|-----------------|----------------------------|-------------------|-----------|
| 149 | 5745 | -8.63 | 8 | Pass |
| 157 | 5785 | -8.36 | 8 | Pass |
| 165 | 5825 | -8.08 | 8 | Pass |

| | | | |
|------------------------|-----------------|----------------------------|--------|
| Test Mode : | Mode 13, 14, 15 | Temperature : | 24~26℃ |
| Test Engineer : | Pinkston Tu | Relative Humidity : | 50~53% |

| Channel | Frequency (MHz) | 802.11n (BW 20MHz) Measured PSD (dBm) | Max. Limits (dBm) | Pass/Fail |
|---------|-----------------|---------------------------------------|-------------------|-----------|
| 149 | 5745 | -7.98 | 8 | Pass |
| 157 | 5785 | -7.88 | 8 | Pass |
| 165 | 5825 | -7.80 | 8 | Pass |

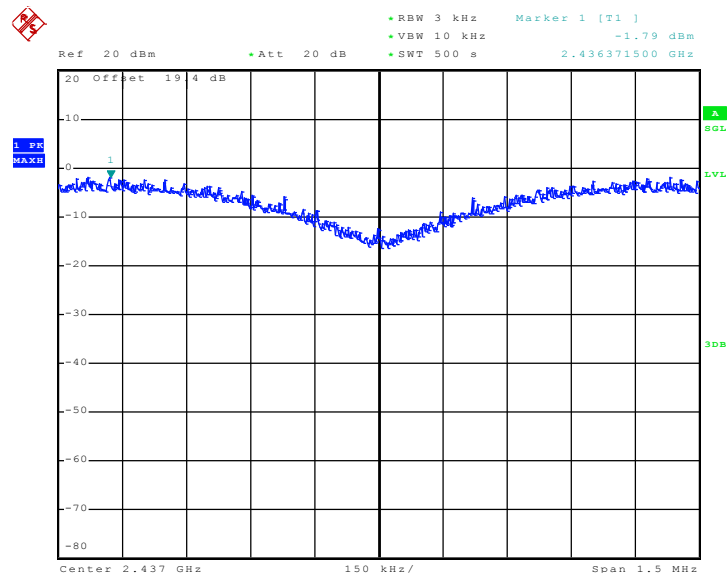
3.5.6 Test Result of Power Spectral Density Plots

Mode 1 : PSD Plot on 802.11b Channel 01

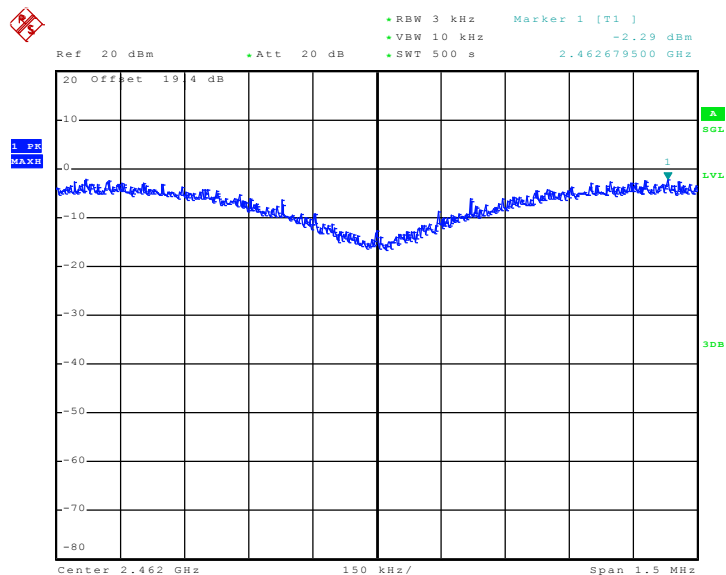


Date: 28.JUN.2011 11:15:10

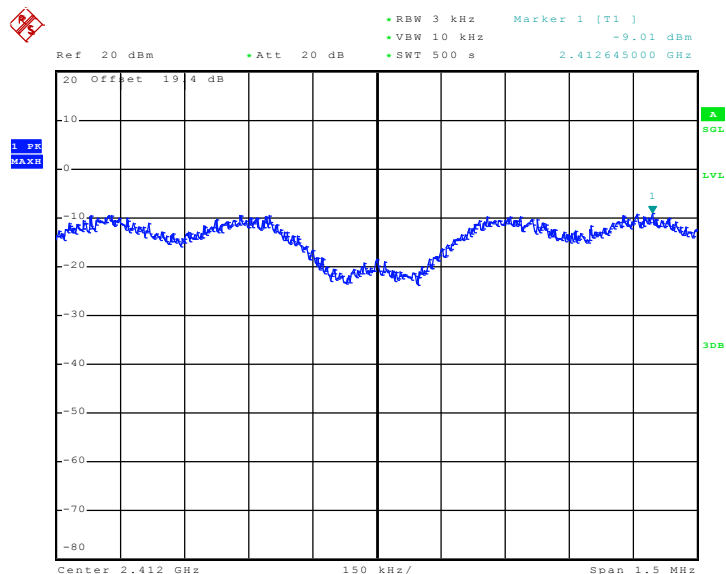
Mode 2 : PSD Plot on 802.11b Channel 06



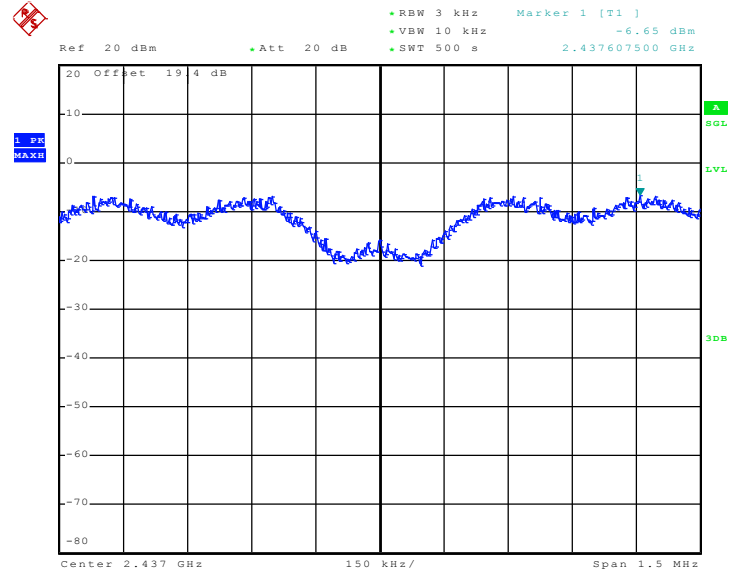
Date: 28.JUN.2011 11:29:59

Mode 3 : PSD Plot on 802.11b Channel 11


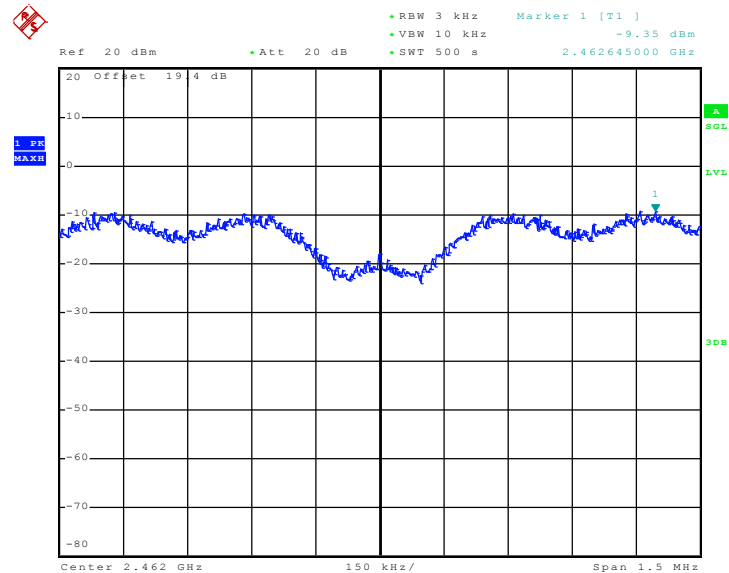
Date: 28.JUN.2011 11:44:42

Mode 4 : PSD Plot on 802.11g Channel 01


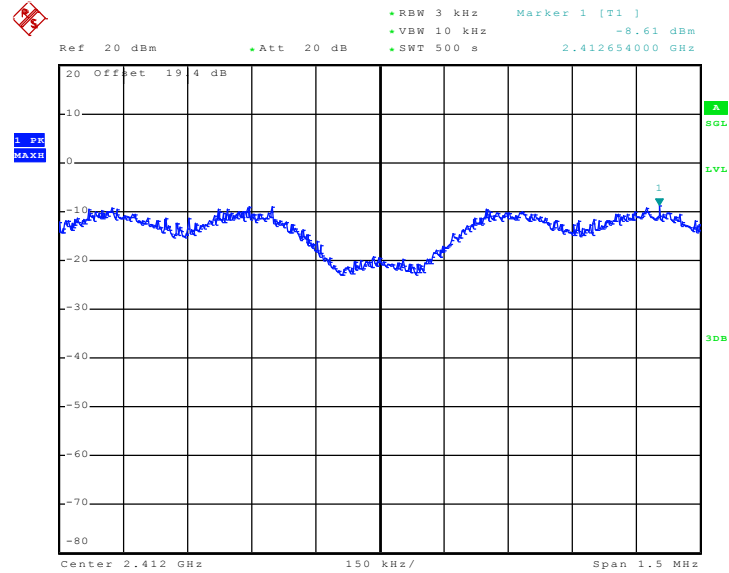
Date: 28.JUN.2011 12:22:52

Mode 5 : PSD Plot on 802.11g Channel 06


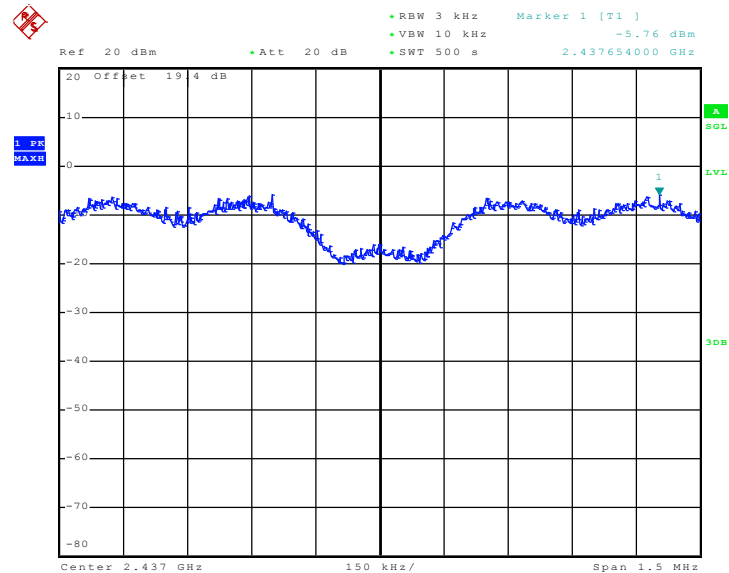
Date: 28.JUN.2011 13:47:43

Mode 6 : PSD Plot on 802.11g Channel 11


Date: 28.JUN.2011 11:59:51

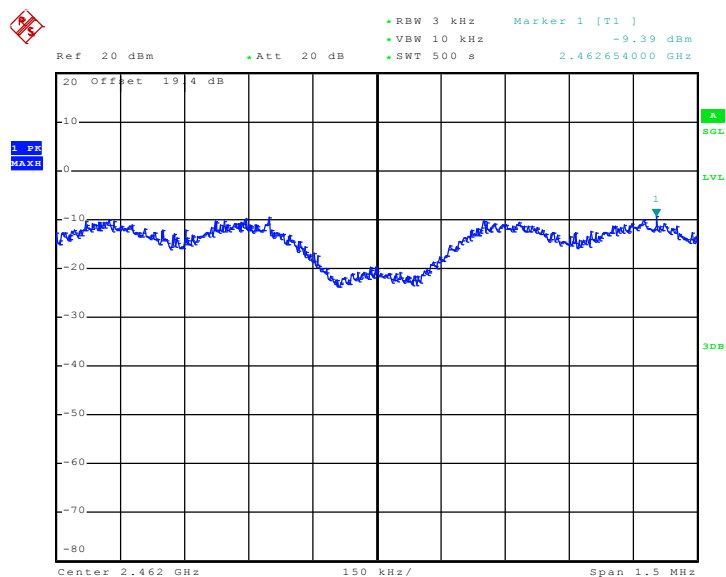
Mode 7 : PSD Plot on 802.11n Channel 01


Date: 28.JUN.2011 14:06:43

Mode 8 : PSD Plot on 802.11n Channel 06


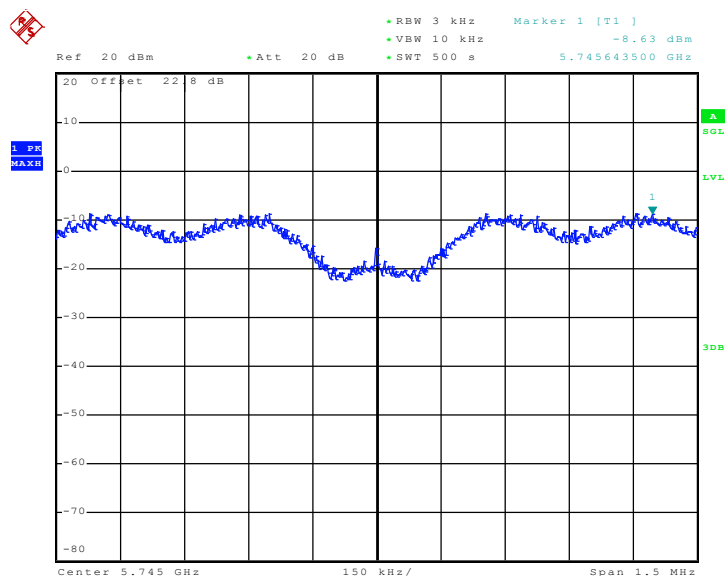
Date: 28.JUN.2011 14:18:51

Mode 9 : PSD Plot on 802.11n Channel 11

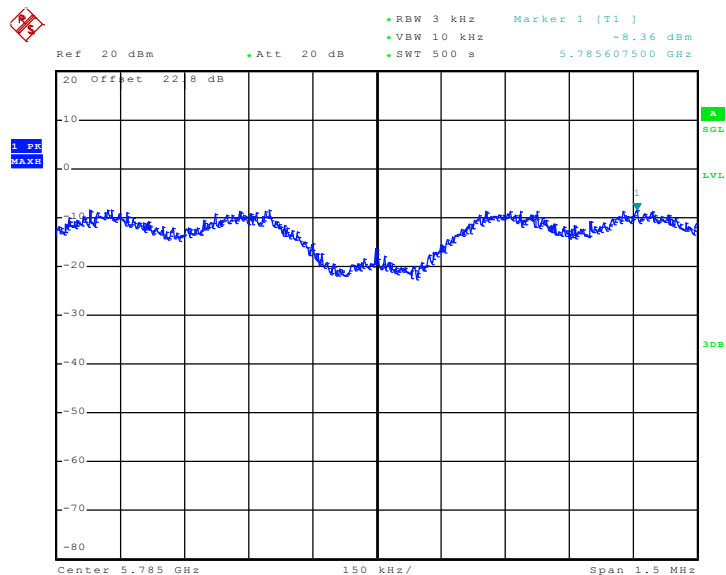


Date: 28.JUN.2011 14:41:38

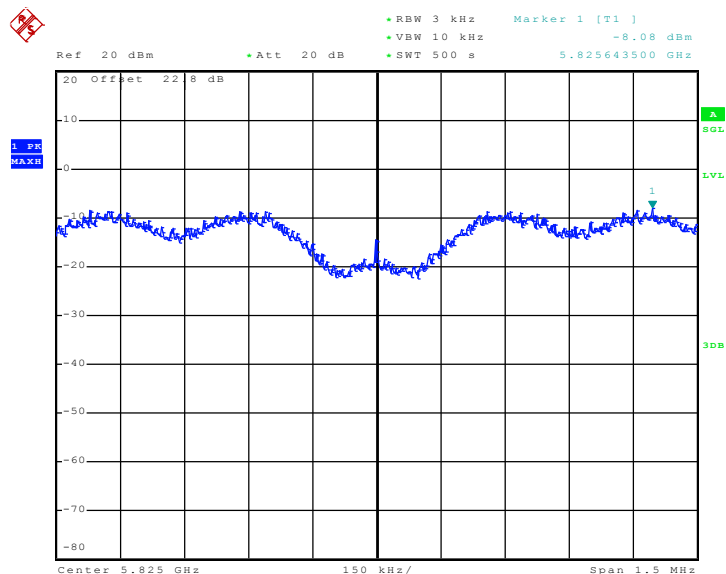
Mode 10: PSD Plot on 802.11a Channel 149



Date: 28.JUN.2011 15:18:40

Mode 11: PSD Plot on 802.11a Channel 157


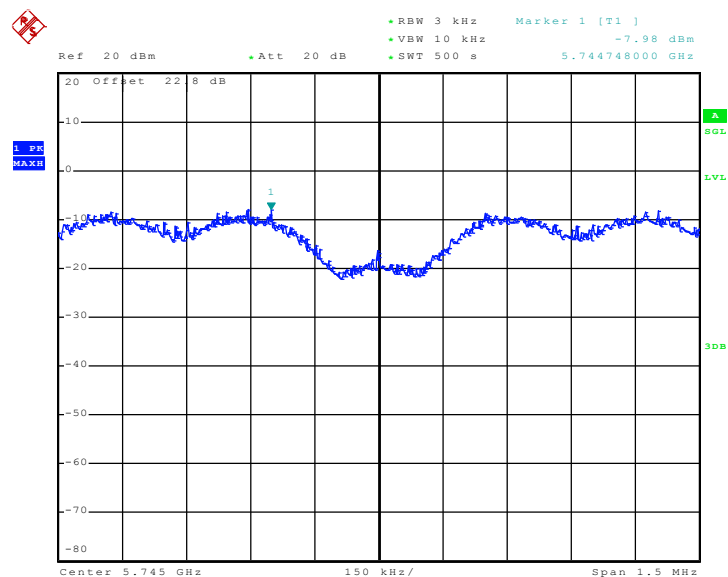
Date: 28.JUN.2011 15:36:23

Mode 12: PSD Plot on 802.11a Channel 165


Date: 28.JUN.2011 15:50:26

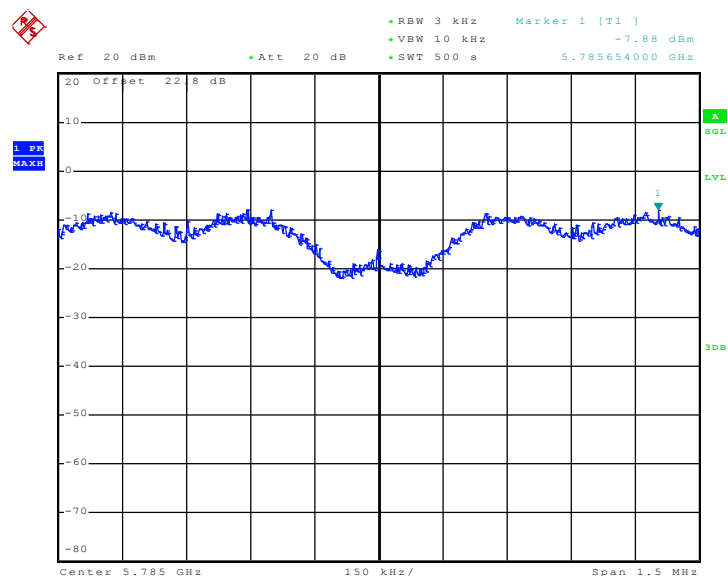


Mode 13: PSD Plot on 802.11n Channel 149



Date: 28.JUN.2011 17:13:57

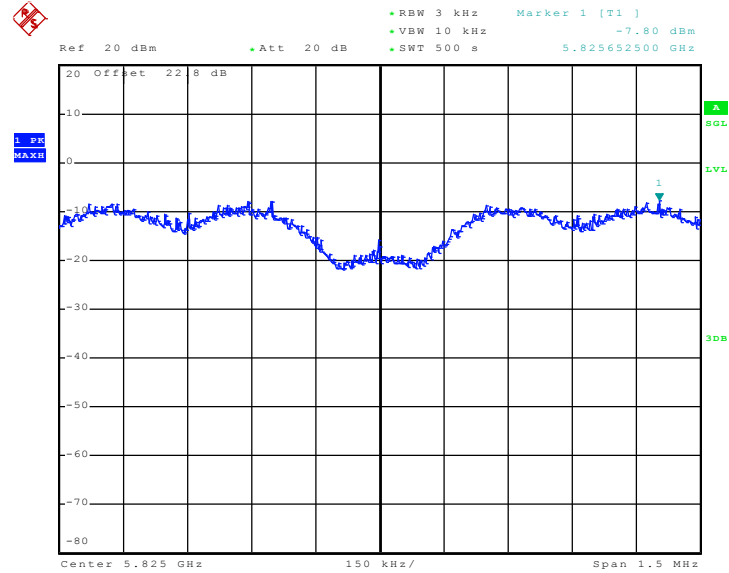
Mode 14: PSD Plot on 802.11n Channel 157



Date: 28.JUN.2011 17:29:15



Mode 15: PSD Plot on 802.11n Channel 165



Date: 28.JUN.2011 16:58:32

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of Emission (MHz) | Conducted 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.

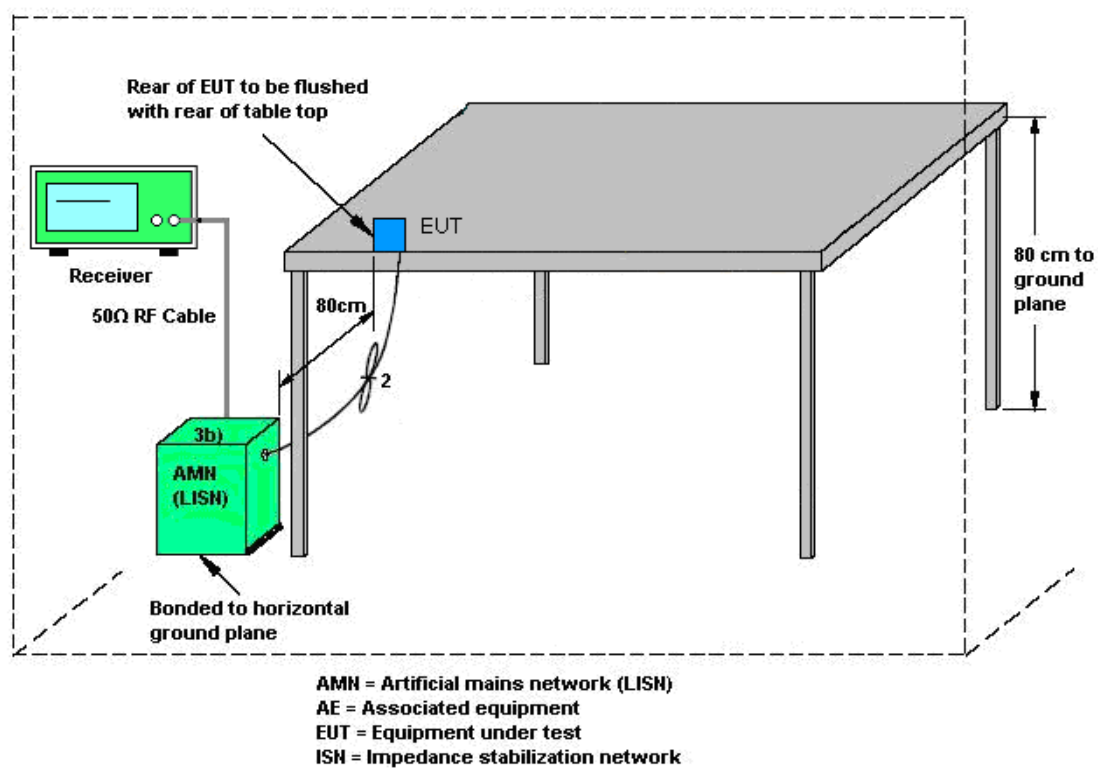
3.6.2 Measuring Instruments

See list of measuring instruments of this test report.

3.6.3 Test Procedures

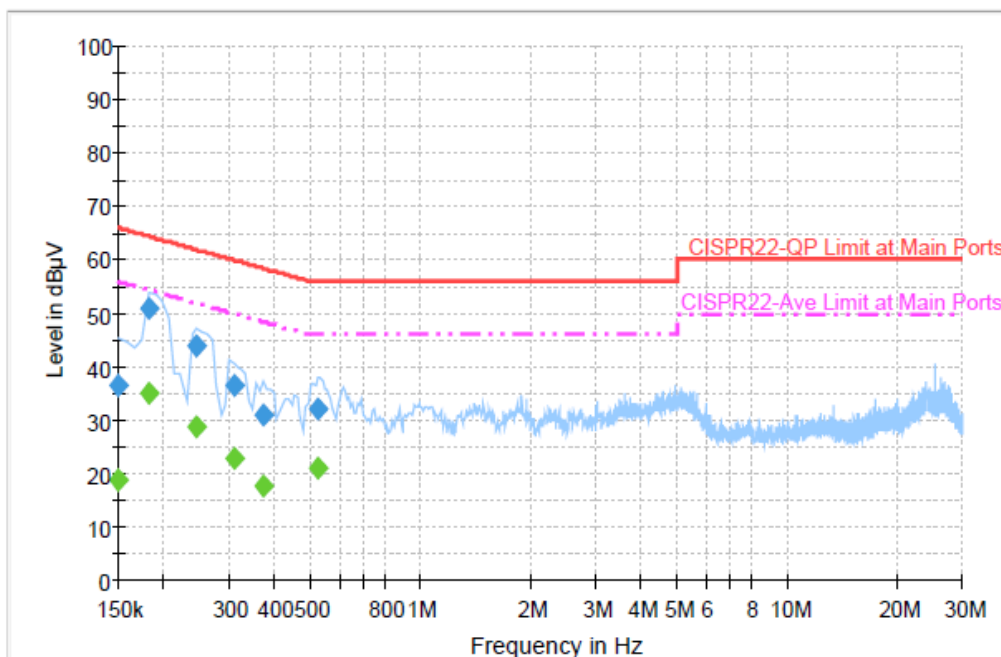
4. The testing follows the guidelines in ANSI C63.4-2003.
5. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
6. Connect EUT to the power mains through a line impedance stabilization network (LISN).
7. All the support units are connecting to the other LISN.
8. The LISN provides 50 ohm coupling impedance for the measuring instrument.
9. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
10. Both sides of AC line were checked for maximum conducted interference.
11. The frequency range from 150 kHz to 30 MHz was searched.
12. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

| | | | |
|------------------------|--|----------------------------|--------|
| Test Mode : | Mode 1 | Temperature : | 22~24℃ |
| Test Engineer : | Novic Chiang | Relative Humidity : | 42~44% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Line |
| Function Type : | WLAN Link(2.4G) + Bluetooth Link + USB Charging Cable with AC Power + USB Link + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |



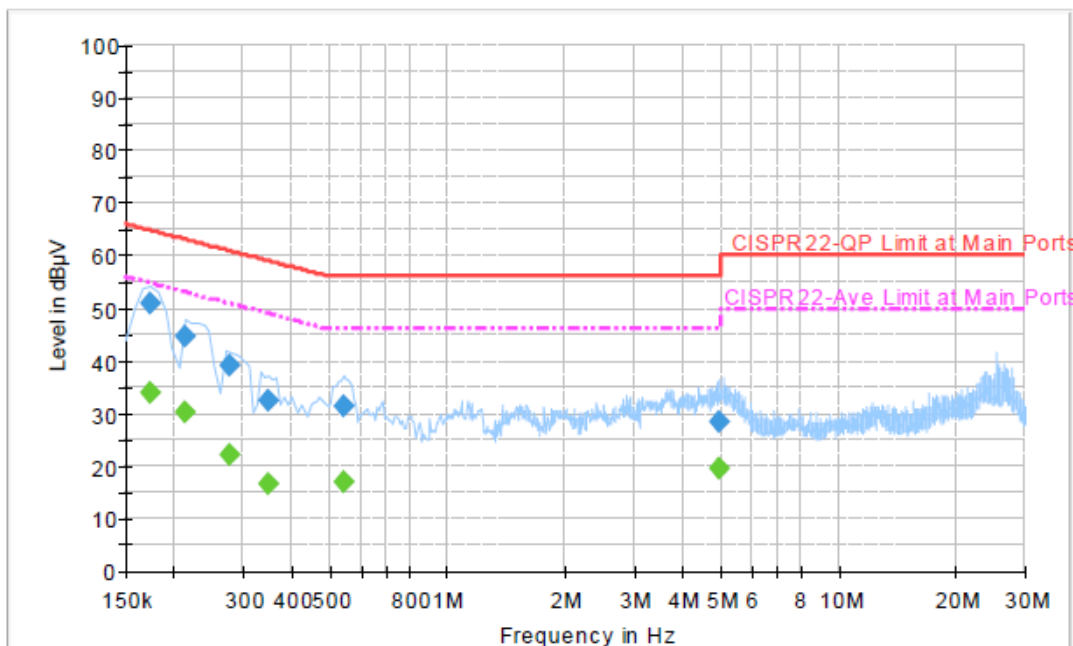
Final Result 1

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000 | 36.6 | Off | L1 | 19.4 | 29.4 | 66.0 |
| 0.182000 | 51.1 | Off | L1 | 19.4 | 13.3 | 64.4 |
| 0.246000 | 43.8 | Off | L1 | 19.4 | 18.1 | 61.9 |
| 0.310000 | 36.6 | Off | L1 | 19.4 | 23.4 | 60.0 |
| 0.374000 | 31.2 | Off | L1 | 19.4 | 27.2 | 58.4 |
| 0.526000 | 32.0 | Off | L1 | 19.4 | 24.0 | 56.0 |

Final Result 2

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000 | 18.7 | Off | L1 | 19.4 | 37.3 | 56.0 |
| 0.182000 | 34.9 | Off | L1 | 19.4 | 19.5 | 54.4 |
| 0.246000 | 28.7 | Off | L1 | 19.4 | 23.2 | 51.9 |
| 0.310000 | 22.7 | Off | L1 | 19.4 | 27.3 | 50.0 |
| 0.374000 | 17.6 | Off | L1 | 19.4 | 30.8 | 48.4 |
| 0.526000 | 20.9 | Off | L1 | 19.4 | 25.1 | 46.0 |

| | | | |
|------------------------|--|----------------------------|---------|
| Test Mode : | Mode 1 | Temperature : | 22~24°C |
| Test Engineer : | Novic Chiang | Relative Humidity : | 42~44% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |
| Function Type : | WLAN Link(2.4G) + Bluetooth Link + USB Charging Cable with AC Power + USB Link + Qwerty Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |

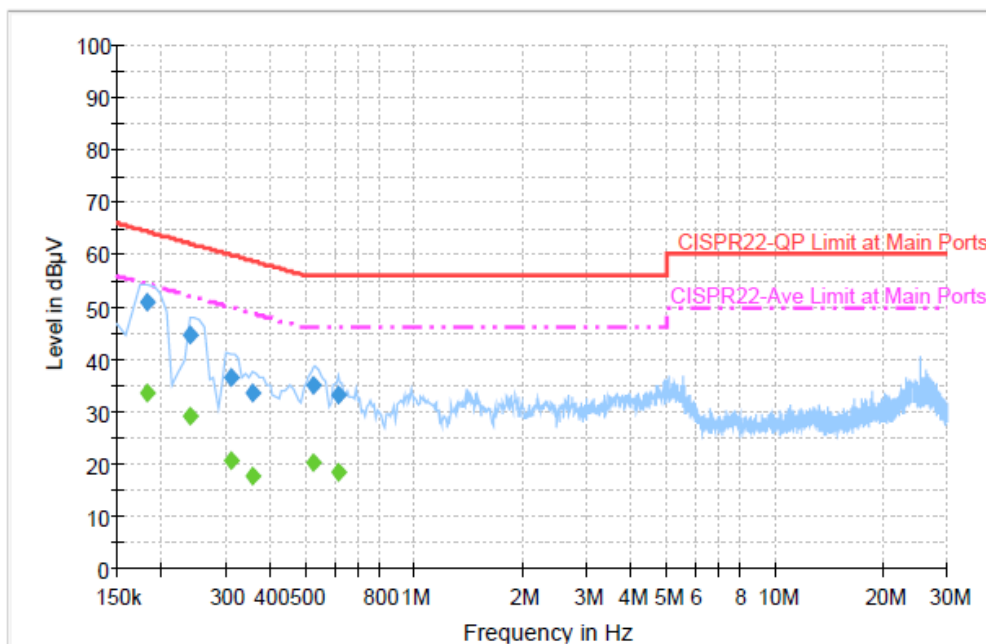

Final Result 1

| Frequency (MHz) | QuasiPeak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.174000 | 50.8 | Off | N | 19.4 | 14.0 | 64.8 |
| 0.214000 | 44.7 | Off | N | 19.4 | 18.3 | 63.0 |
| 0.278000 | 39.0 | Off | N | 19.4 | 21.9 | 60.9 |
| 0.350000 | 32.3 | Off | N | 19.4 | 26.7 | 59.0 |
| 0.542000 | 31.2 | Off | N | 19.4 | 24.8 | 56.0 |
| 4.966000 | 28.3 | Off | N | 19.6 | 27.7 | 56.0 |

Final Result 2

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.174000 | 33.8 | Off | N | 19.4 | 21.0 | 54.8 |
| 0.214000 | 30.1 | Off | N | 19.4 | 22.9 | 53.0 |
| 0.278000 | 22.0 | Off | N | 19.4 | 28.9 | 50.9 |
| 0.350000 | 16.5 | Off | N | 19.4 | 32.5 | 49.0 |
| 0.542000 | 17.0 | Off | N | 19.4 | 29.0 | 46.0 |
| 4.966000 | 19.4 | Off | N | 19.6 | 26.6 | 46.0 |

| | | | |
|------------------------|---|----------------------------|---------|
| Test Mode : | Mode 2 | Temperature : | 22~24°C |
| Test Engineer : | Novic Chiang | Relative Humidity : | 42~44% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Line |
| Function Type : | WLAN Link(2.4G) + Bluetooth Link + USB Charging Cable with AC Power + USB Link + Numeric Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |

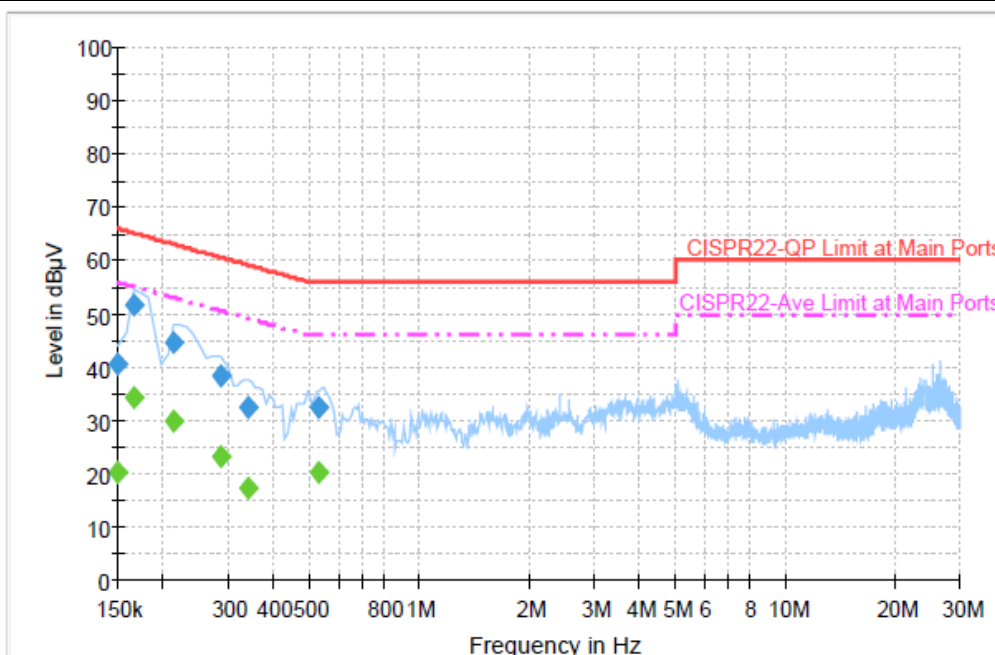

Final Result 1

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.182000 | 50.9 | Off | L1 | 19.4 | 13.5 | 64.4 |
| 0.238000 | 44.5 | Off | L1 | 19.4 | 17.7 | 62.2 |
| 0.310000 | 36.4 | Off | L1 | 19.4 | 23.6 | 60.0 |
| 0.358000 | 33.5 | Off | L1 | 19.4 | 25.3 | 58.8 |
| 0.526000 | 35.0 | Off | L1 | 19.4 | 21.0 | 56.0 |
| 0.614000 | 33.1 | Off | L1 | 19.4 | 22.9 | 56.0 |

Final Result 2

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.182000 | 33.6 | Off | L1 | 19.4 | 20.8 | 54.4 |
| 0.238000 | 29.2 | Off | L1 | 19.4 | 23.0 | 52.2 |
| 0.310000 | 20.7 | Off | L1 | 19.4 | 29.3 | 50.0 |
| 0.358000 | 17.9 | Off | L1 | 19.4 | 30.9 | 48.8 |
| 0.526000 | 20.2 | Off | L1 | 19.4 | 25.8 | 46.0 |
| 0.614000 | 18.4 | Off | L1 | 19.4 | 27.6 | 46.0 |

| | | | |
|------------------------|---|----------------------------|---------|
| Test Mode : | Mode 2 | Temperature : | 22~24°C |
| Test Engineer : | Novic Chiang | Relative Humidity : | 42~44% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |
| Function Type : | WLAN Link(2.4G) + Bluetooth Link + USB Charging Cable with AC Power + USB Link + Numeric Keypad + Battery (3600mAh) + 2D Scanner for Sample 1 | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |

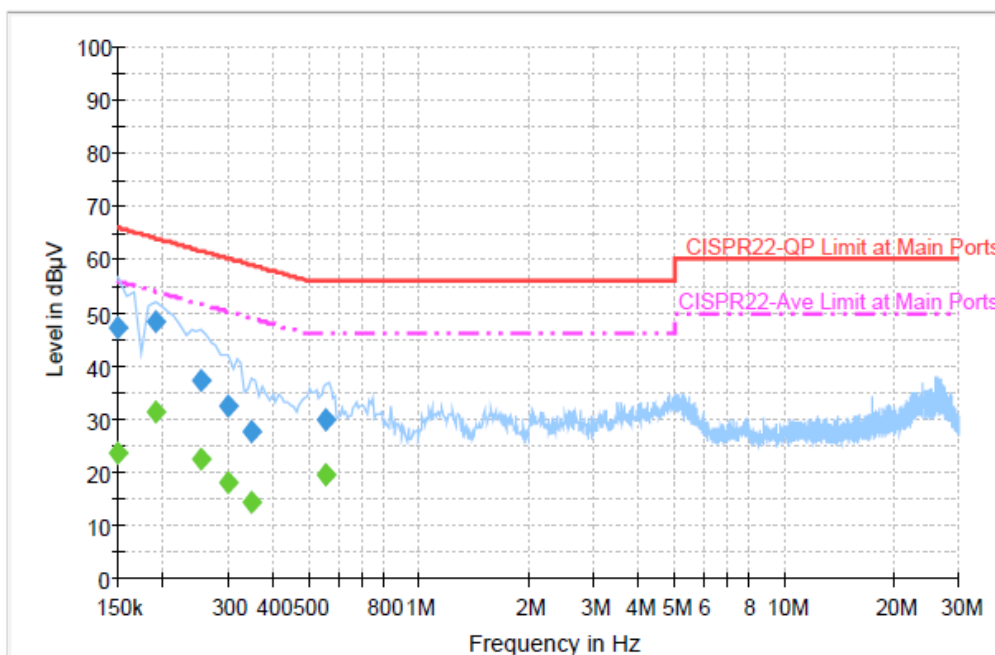

Final Result 1

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000 | 40.5 | Off | N | 19.4 | 25.5 | 66.0 |
| 0.166000 | 51.6 | Off | N | 19.4 | 13.6 | 65.2 |
| 0.214000 | 44.7 | Off | N | 19.4 | 18.3 | 63.0 |
| 0.286000 | 38.4 | Off | N | 19.4 | 22.2 | 60.6 |
| 0.342000 | 32.4 | Off | N | 19.4 | 26.8 | 59.2 |
| 0.534000 | 32.3 | Off | N | 19.4 | 23.7 | 56.0 |

Final Result 2

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000 | 20.3 | Off | N | 19.4 | 35.7 | 56.0 |
| 0.166000 | 34.4 | Off | N | 19.4 | 20.8 | 55.2 |
| 0.214000 | 29.8 | Off | N | 19.4 | 23.2 | 53.0 |
| 0.286000 | 23.4 | Off | N | 19.4 | 27.2 | 50.6 |
| 0.342000 | 17.4 | Off | N | 19.4 | 31.8 | 49.2 |
| 0.534000 | 20.4 | Off | N | 19.4 | 25.6 | 46.0 |

| | | | |
|------------------------|---|----------------------------|---------|
| Test Mode : | Mode 3 | Temperature : | 22~24°C |
| Test Engineer : | Novic Chiang | Relative Humidity : | 42~44% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Line |
| Function Type : | WLAN Link(2.4G) + Bluetooth Link + USB Charging Cable with AC Power + USB Link + PIM Keypad + Battery (2400mAh) + 1D Scanner for Sample 1 | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |

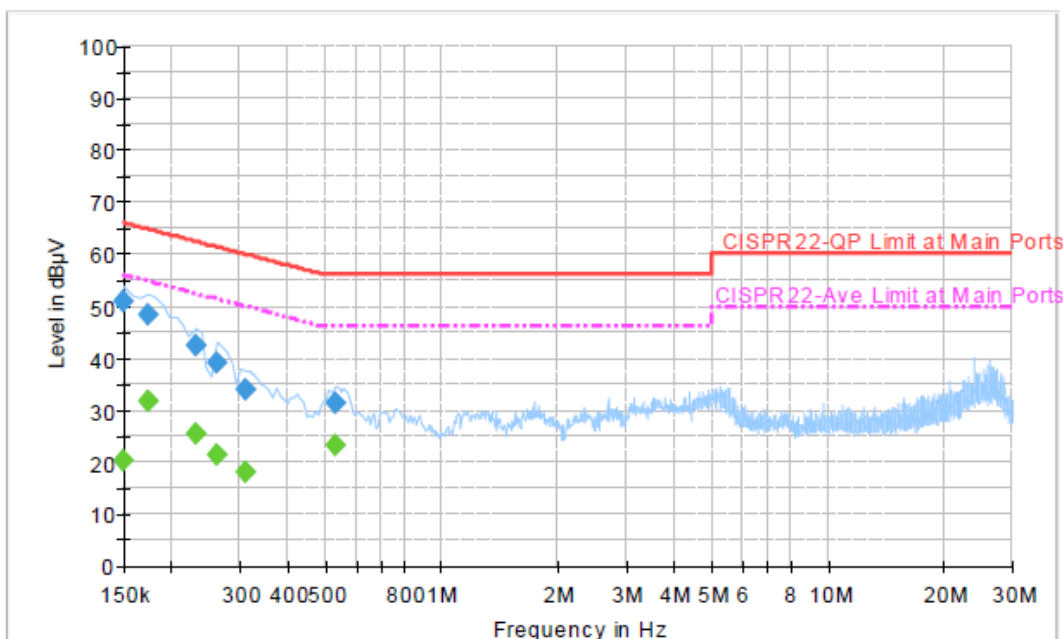

Final Result 1

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000 | 47.2 | Off | L1 | 19.4 | 18.8 | 66.0 |
| 0.190000 | 48.5 | Off | L1 | 19.4 | 15.5 | 64.0 |
| 0.254000 | 37.3 | Off | L1 | 19.4 | 24.3 | 61.6 |
| 0.302000 | 32.3 | Off | L1 | 19.4 | 27.9 | 60.2 |
| 0.350000 | 27.8 | Off | L1 | 19.4 | 31.2 | 59.0 |
| 0.558000 | 29.8 | Off | L1 | 19.4 | 26.2 | 56.0 |

Final Result 2

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000 | 23.5 | Off | L1 | 19.4 | 32.5 | 56.0 |
| 0.190000 | 31.5 | Off | L1 | 19.4 | 22.5 | 54.0 |
| 0.254000 | 22.5 | Off | L1 | 19.4 | 29.1 | 51.6 |
| 0.302000 | 18.0 | Off | L1 | 19.4 | 32.2 | 50.2 |
| 0.350000 | 14.5 | Off | L1 | 19.4 | 34.5 | 49.0 |
| 0.558000 | 19.6 | Off | L1 | 19.4 | 26.4 | 46.0 |

| | | | |
|------------------------|---|----------------------------|---------|
| Test Mode : | Mode 3 | Temperature : | 22~24°C |
| Test Engineer : | Novic Chiang | Relative Humidity : | 42~44% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |
| Function Type : | WLAN Link(2.4G) + Bluetooth Link + USB Charging Cable with AC Power + USB Link + PIM Keypad + Battery (2400mAh) + 1D Scanner for Sample 1 | | |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |


Final Result 1

| Frequency (MHz) | QuasiPeak (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|--------|------|------------|-------------|--------------|
| 0.150000 | 50.9 | Off | N | 19.4 | 15.1 | 66.0 |
| 0.174000 | 48.5 | Off | N | 19.4 | 16.3 | 64.8 |
| 0.230000 | 42.4 | Off | N | 19.5 | 20.0 | 62.4 |
| 0.262000 | 39.3 | Off | N | 19.4 | 22.1 | 61.4 |
| 0.310000 | 33.9 | Off | N | 19.4 | 26.1 | 60.0 |
| 0.534000 | 31.5 | Off | N | 19.4 | 24.5 | 56.0 |

Final Result 2

| Frequency (MHz) | Average (dBμV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|----------------|--------|------|------------|-------------|--------------|
| 0.150000 | 20.2 | Off | N | 19.4 | 35.8 | 56.0 |
| 0.174000 | 31.8 | Off | N | 19.4 | 23.0 | 54.8 |
| 0.230000 | 25.4 | Off | N | 19.5 | 27.0 | 52.4 |
| 0.262000 | 21.4 | Off | N | 19.4 | 30.0 | 51.4 |
| 0.310000 | 18.2 | Off | N | 19.4 | 31.8 | 50.0 |
| 0.534000 | 23.2 | Off | N | 19.4 | 22.8 | 46.0 |

3.7 Radiated Emission Measurement

3.7.1 Limit of Radiated Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|--------------------|--------------------------------------|----------------------------------|
| 0.009 – 0.490 | 2400/F(kHz) | 300 |
| 0.490 – 1.705 | 24000/F(kHz) | 30 |
| 1.705 – 30.0 | 30 | 30 |
| 30 – 88 | 100 | 3 |
| 88 – 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

3.7.2 Measuring Instruments

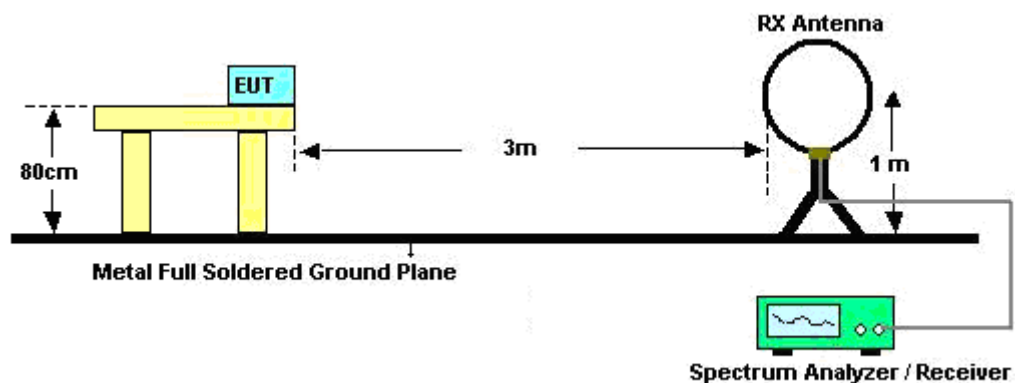
See list of measuring instruments of this test report.

3.7.3 Test Procedures

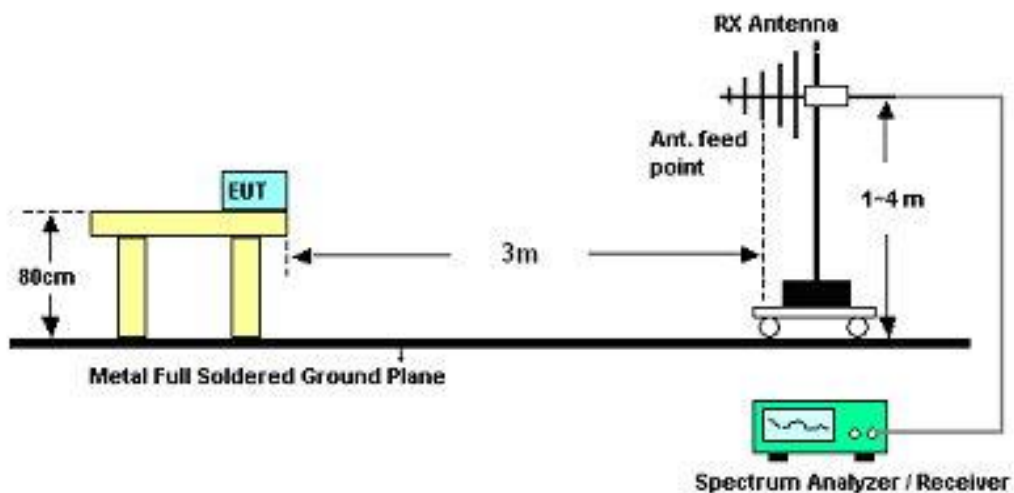
- The testing follows the guidelines in FCC KDB Publication No. 558074 (Measurement Guidelines of DTS).
- Use the following spectrum analyzer settings:
 - Span = wide enough to fully capture the emission being measured; RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold.
 - Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.
Distance extrapolation factor = $20 \log (\text{specific distance [3m]} / \text{test distance [1m]})$ (dB)
- Follow the guidelines in ANSI C63.4-2003 with respect to maximizing the emission by rotating the EUT, measuring the emission for three EUT orthogonal planes, and adjusting the measurement antenna height and polarization. A pre-amp and a high pass filter are used for this test in order to get the good signal level.

3.7.4 Test Setup

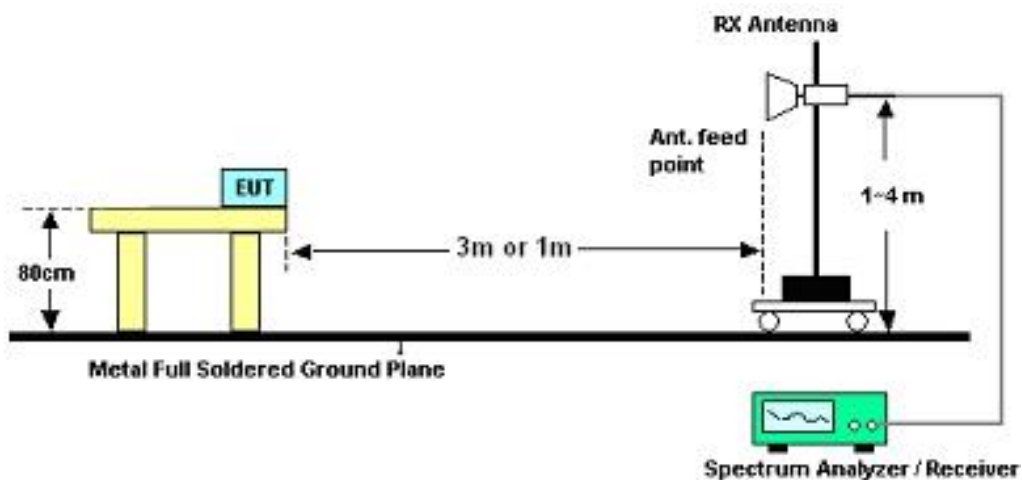
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.7.5 Test Results of Radiated Emissions (9kHz ~ 30MHz)

| | | | | |
|-----------------|-----------|---------------------|---------|--|
| Test Engineer : | Wii Chang | Temperature : | 22~26°C | |
| | | Relative Humidity : | 51~55% | |

| Frequency (MHz) | Level (dBuV) | Over Limit (dB) | Limit Line (dBuV) | Remark |
|-----------------|--------------|-----------------|-------------------|----------|
| - | - | - | - | See Note |

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

3.7.6 Test Result of Radiated Emission (30MHz ~ 10th Harmonic)

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 1 | Temperature : | 22~26°C |
| Test Channel : | 01 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 2412 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30 | 17.31 | -22.69 | 40 | 30.4 | 17.91 | 0.72 | 31.72 | - | - | Peak |
| 142.59 | 23.63 | -19.87 | 43.5 | 42.67 | 11.21 | 1.45 | 31.7 | - | - | Peak |
| 164.73 | 28.24 | -15.26 | 43.5 | 48.46 | 9.91 | 1.53 | 31.66 | 100 | 21 | Peak |
| 358.8 | 20.45 | -25.55 | 46 | 34.93 | 14.82 | 2.26 | 31.56 | - | - | Peak |
| 549.9 | 22.13 | -23.87 | 46 | 32.67 | 18.49 | 2.85 | 31.88 | - | - | Peak |
| 745.9 | 22.94 | -23.06 | 46 | 31.68 | 20.02 | 3.34 | 32.1 | - | - | Peak |
| 2385.62 | 52.48 | -1.52 | 54 | 49.57 | 31.9 | 5.4 | 34.39 | 137 | 9 | Average |
| 2385.62 | 60.73 | -13.27 | 74 | 57.82 | 31.9 | 5.4 | 34.39 | 137 | 9 | Peak |
| 2412 | 106.56 | - | - | 103.61 | 31.91 | 5.43 | 34.39 | 137 | 9 | Average |
| 2412 | 110.8 | - | - | 107.85 | 31.91 | 5.43 | 34.39 | 137 | 9 | Peak |
| 2494 | 51.7 | -22.3 | 74 | 48.55 | 32 | 5.52 | 34.37 | 137 | 9 | Peak |
| 2494 | 39.12 | -14.88 | 54 | 35.97 | 32 | 5.52 | 34.37 | 137 | 9 | Average |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 1 | Temperature : | 22~26°C |
| Test Channel : | 01 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 2412 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 59.43 | 35.15 | -4.85 | 40 | 59.26 | 6.63 | 0.95 | 31.69 | 100 | 154 | Peak |
| 173.64 | 32.61 | -10.89 | 43.5 | 53.12 | 9.6 | 1.57 | 31.68 | - | - | Peak |
| 213.33 | 29.02 | -14.48 | 43.5 | 48.71 | 10.24 | 1.71 | 31.64 | - | - | Peak |
| 327.3 | 17.26 | -28.74 | 46 | 32.62 | 14.09 | 2.15 | 31.6 | - | - | Peak |
| 535.9 | 21.49 | -24.51 | 46 | 32.23 | 18.31 | 2.8 | 31.85 | - | - | Peak |
| 682.9 | 22.9 | -23.1 | 46 | 32.36 | 19.35 | 3.19 | 32 | - | - | Peak |
| 2385.62 | 59.72 | -14.28 | 74 | 56.81 | 31.9 | 5.4 | 34.39 | 100 | 285 | Peak |
| 2385.62 | 51.5 | -2.5 | 54 | 48.59 | 31.9 | 5.4 | 34.39 | 100 | 285 | Average |
| 2412 | 103.95 | - | - | 101.04 | 31.9 | 5.4 | 34.39 | 100 | 285 | Average |
| 2412 | 108.47 | - | - | 105.52 | 31.91 | 5.43 | 34.39 | 100 | 285 | Peak |
| 2492 | 39.42 | -14.58 | 54 | 36.27 | 32 | 5.52 | 34.37 | 100 | 285 | Average |
| 2492 | 58.59 | -15.41 | 74 | 55.44 | 32 | 5.52 | 34.37 | 100 | 285 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 2 | Temperature : | 22~26°C |
| Test Channel : | 06 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 2437 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30 | 16.86 | -23.14 | 40 | 29.95 | 17.91 | 0.72 | 31.72 | - | - | Peak |
| 163.38 | 26.96 | -16.54 | 43.5 | 47.16 | 9.94 | 1.52 | 31.66 | 100 | 51 | Peak |
| 224.13 | 23.28 | -22.72 | 46 | 42.22 | 10.95 | 1.75 | 31.64 | - | - | Peak |
| 355.3 | 21.77 | -24.23 | 46 | 36.35 | 14.73 | 2.25 | 31.56 | - | - | Peak |
| 490.4 | 21.46 | -24.54 | 46 | 32.97 | 17.63 | 2.64 | 31.78 | - | - | Peak |
| 780.9 | 24.02 | -21.98 | 46 | 32.18 | 20.5 | 3.36 | 32.02 | - | - | Peak |
| 2358 | 57.68 | -16.32 | 74 | 54.85 | 31.86 | 5.37 | 34.4 | 158 | 2 | Peak |
| 2358 | 41.31 | -12.69 | 54 | 38.48 | 31.86 | 5.37 | 34.4 | 158 | 2 | Average |
| 2437 | 111.46 | - | - | 108.45 | 31.93 | 5.46 | 34.38 | 158 | 2 | Peak |
| 2437 | 107.07 | - | - | 104.04 | 31.95 | 5.46 | 34.38 | 158 | 2 | Average |
| 2486 | 40.43 | -13.57 | 54 | 37.3 | 31.98 | 5.52 | 34.37 | 158 | 2 | Average |
| 2486 | 51.55 | -22.45 | 74 | 48.42 | 31.98 | 5.52 | 34.37 | 158 | 2 | Peak |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 2 | Temperature : | 22~26°C |
| Test Channel : | 06 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 2437 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 59.43 | 35.4 | -4.6 | 40 | 59.51 | 6.63 | 0.95 | 31.69 | 100 | 53 | Peak |
| 174.99 | 32.58 | -10.92 | 43.5 | 53.12 | 9.57 | 1.57 | 31.68 | - | - | Peak |
| 216.84 | 29.08 | -16.92 | 46 | 48.51 | 10.5 | 1.73 | 31.66 | - | - | Peak |
| 330.8 | 17.63 | -28.37 | 46 | 32.89 | 14.17 | 2.16 | 31.59 | - | - | Peak |
| 528.9 | 21.28 | -24.72 | 46 | 32.14 | 18.21 | 2.77 | 31.84 | - | - | Peak |
| 644.4 | 21.86 | -24.14 | 46 | 31.55 | 19.27 | 3.03 | 31.99 | - | - | Peak |
| 2348 | 50.16 | -23.84 | 74 | 47.39 | 31.84 | 5.34 | 34.41 | 113 | 324 | Peak |
| 2348 | 38.76 | -15.24 | 54 | 35.99 | 31.84 | 5.34 | 34.41 | 113 | 324 | Average |
| 2437 | 108.9 | - | - | 105.89 | 31.93 | 5.46 | 34.38 | 113 | 324 | Peak |
| 2437 | 101.58 | - | - | 98.55 | 31.95 | 5.46 | 34.38 | 113 | 324 | Average |
| 2486 | 40.39 | -13.61 | 54 | 37.26 | 31.98 | 5.52 | 34.37 | 113 | 324 | Average |
| 2486 | 51.8 | -22.2 | 74 | 48.67 | 31.98 | 5.52 | 34.37 | 113 | 324 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 3 | Temperature : | 22~26°C |
| Test Channel : | 11 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 2462 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30 | 16.63 | -23.37 | 40 | 29.72 | 17.91 | 0.72 | 31.72 | - | - | Peak |
| 166.89 | 26.87 | -16.63 | 43.5 | 47.15 | 9.84 | 1.54 | 31.66 | 100 | 78 | Peak |
| 228.18 | 22.5 | -23.5 | 46 | 41.14 | 11.2 | 1.77 | 31.61 | - | - | Peak |
| 357.4 | 21.88 | -24.12 | 46 | 36.38 | 14.8 | 2.26 | 31.56 | - | - | Peak |
| 528.9 | 20.73 | -25.27 | 46 | 31.59 | 18.21 | 2.77 | 31.84 | - | - | Peak |
| 687.8 | 22.41 | -23.59 | 46 | 31.84 | 19.36 | 3.21 | 32 | - | - | Peak |
| 2382 | 55.61 | -18.39 | 74 | 52.72 | 31.88 | 5.4 | 34.39 | 156 | 2 | Peak |
| 2382 | 40.27 | -13.73 | 54 | 37.38 | 31.88 | 5.4 | 34.39 | 156 | 2 | Average |
| 2462 | 112.68 | - | - | 109.6 | 31.97 | 5.49 | 34.38 | 156 | 2 | Peak |
| 2462 | 108.23 | - | - | 105.15 | 31.97 | 5.49 | 34.38 | 156 | 2 | Average |
| 2487.65 | 49.81 | -4.19 | 54 | 46.66 | 32 | 5.52 | 34.37 | 156 | 2 | Average |
| 2487.65 | 58.45 | -15.55 | 74 | 55.3 | 32 | 5.52 | 34.37 | 156 | 2 | Peak |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 3 | Temperature : | 22~26°C |
| Test Channel : | 11 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 2462 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 38.64 | 33.33 | -6.67 | 40 | 50.96 | 13.27 | 0.8 | 31.7 | 100 | 54 | Peak |
| 174.99 | 33.04 | -10.46 | 43.5 | 53.58 | 9.57 | 1.57 | 31.68 | - | - | Peak |
| 211.98 | 29.28 | -14.22 | 43.5 | 49.02 | 10.18 | 1.71 | 31.63 | - | - | Peak |
| 390.3 | 19.8 | -26.2 | 46 | 33.66 | 15.54 | 2.37 | 31.77 | - | - | Peak |
| 575.8 | 22.04 | -23.96 | 46 | 32.32 | 18.84 | 2.89 | 32.01 | - | - | Peak |
| 805.4 | 24.32 | -21.68 | 46 | 32.09 | 20.81 | 3.38 | 31.96 | - | - | Peak |
| 2316 | 50.74 | -23.26 | 74 | 48.03 | 31.81 | 5.31 | 34.41 | 119 | 312 | Peak |
| 2316 | 39.05 | -14.95 | 54 | 36.34 | 31.81 | 5.31 | 34.41 | 119 | 312 | Average |
| 2462 | 109.91 | - | - | 106.83 | 31.97 | 5.49 | 34.38 | 119 | 312 | Peak |
| 2462 | 105.63 | - | - | 102.55 | 31.97 | 5.49 | 34.38 | 119 | 312 | Average |
| 2488.22 | 47.73 | -6.27 | 54 | 44.58 | 32 | 5.52 | 34.37 | 119 | 312 | Average |
| 2488.22 | 57.4 | -16.6 | 74 | 54.25 | 32 | 5.52 | 34.37 | 119 | 312 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 4 | Temperature : | 22~26°C |
| Test Channel : | 12 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 2467 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2388 | 49.48 | -24.52 | 74 | 46.57 | 31.9 | 5.4 | 34.39 | 103 | 10 | Peak |
| 2388 | 35.34 | -18.66 | 54 | 32.43 | 31.9 | 5.4 | 34.39 | 103 | 10 | Average |
| 2467 | 104.31 | - | - | 101.23 | 31.97 | 5.49 | 34.38 | 103 | 10 | Peak |
| 2467 | 99.7 | - | - | 96.62 | 31.97 | 5.49 | 34.38 | 103 | 10 | Average |
| 2483.5 | 47.35 | -6.65 | 54 | 44.22 | 31.98 | 5.52 | 34.37 | 103 | 10 | Average |
| 2483.5 | 57.57 | -16.43 | 74 | 54.44 | 31.98 | 5.52 | 34.37 | 103 | 10 | Peak |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 4 | Temperature : | 22~26°C |
| Test Channel : | 12 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 2467 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2388 | 50.14 | -23.86 | 74 | 47.23 | 31.9 | 5.4 | 34.39 | 100 | 289 | Peak |
| 2388 | 35.25 | -18.75 | 54 | 32.34 | 31.9 | 5.4 | 34.39 | 100 | 289 | Average |
| 2467 | 101.65 | - | - | 98.57 | 31.97 | 5.49 | 34.38 | 100 | 289 | Peak |
| 2467 | 97.21 | - | - | 94.13 | 31.97 | 5.49 | 34.38 | 100 | 289 | Average |
| 2483.5 | 45.1 | -8.9 | 54 | 41.97 | 31.98 | 5.52 | 34.37 | 100 | 289 | Average |
| 2483.5 | 54.2 | -19.8 | 74 | 51.07 | 31.98 | 5.52 | 34.37 | 100 | 289 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 5 | Temperature : | 22~26°C |
| Test Channel : | 13 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 2472 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2318 | 34.27 | -19.73 | 54 | 31.54 | 31.83 | 5.31 | 34.41 | 100 | 0 | Average |
| 2318 | 45.96 | -28.04 | 74 | 43.23 | 31.83 | 5.31 | 34.41 | 100 | 0 | Peak |
| 2472 | 98.48 | - | - | 95.39 | 31.98 | 5.49 | 34.38 | 100 | 0 | Average |
| 2472 | 102.95 | - | - | 99.86 | 31.98 | 5.49 | 34.38 | 100 | 0 | Peak |
| 2486.13 | 51.43 | -2.57 | 54 | 48.3 | 31.98 | 5.52 | 34.37 | 100 | 0 | Average |
| 2486.13 | 58.61 | -15.39 | 74 | 55.48 | 31.98 | 5.52 | 34.37 | 100 | 0 | Peak |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 5 | Temperature : | 22~26°C |
| Test Channel : | 13 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 2472 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2350 | 33.87 | -20.13 | 54 | 31.1 | 31.84 | 5.34 | 34.41 | 119 | 301 | Average |
| 2350 | 45.83 | -28.17 | 74 | 43.06 | 31.84 | 5.34 | 34.41 | 119 | 301 | Peak |
| 2472 | 96.91 | - | - | 93.82 | 31.98 | 5.49 | 34.38 | 119 | 301 | Average |
| 2472 | 101.12 | - | - | 98.03 | 31.98 | 5.49 | 34.38 | 119 | 301 | Peak |
| 2487.46 | 49.52 | -4.48 | 54 | 46.39 | 31.98 | 5.52 | 34.37 | 119 | 301 | Average |
| 2487.46 | 57.48 | -16.52 | 74 | 54.35 | 31.98 | 5.52 | 34.37 | 119 | 301 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 6 | Temperature : | 22~26°C |
| Test Channel : | 01 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 2412 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30 | 17.93 | -22.07 | 40 | 31.02 | 17.91 | 0.72 | 31.72 | - | - | Peak |
| 166.08 | 26.51 | -16.99 | 43.5 | 46.76 | 9.88 | 1.53 | 31.66 | 100 | 44 | Peak |
| 229.53 | 22.29 | -23.71 | 46 | 40.78 | 11.33 | 1.77 | 31.59 | - | - | Peak |
| 369.3 | 20.6 | -25.4 | 46 | 34.88 | 15.07 | 2.3 | 31.65 | - | - | Peak |
| 567.4 | 21.66 | -24.34 | 46 | 32.03 | 18.73 | 2.87 | 31.97 | - | - | Peak |
| 652.8 | 21.82 | -24.18 | 46 | 31.44 | 19.29 | 3.06 | 31.97 | - | - | Peak |
| 2389.61 | 47.61 | -6.39 | 54 | 44.7 | 31.9 | 5.4 | 34.39 | 160 | 16 | Average |
| 2389.61 | 69.03 | -4.97 | 74 | 66.12 | 31.9 | 5.4 | 34.39 | 160 | 16 | Peak |
| 2412 | 99.01 | - | - | 96.06 | 31.91 | 5.43 | 34.39 | 160 | 16 | Average |
| 2412 | 109.21 | - | - | 106.26 | 31.91 | 5.43 | 34.39 | 160 | 16 | Peak |
| 2494 | 53.01 | -20.99 | 74 | 49.86 | 32 | 5.52 | 34.37 | 160 | 16 | Peak |
| 2494 | 36.1 | -17.9 | 54 | 32.95 | 32 | 5.52 | 34.37 | 160 | 16 | Average |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 6 | Temperature : | 22~26°C |
| Test Channel : | 01 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 2412 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 41.34 | 32.56 | -7.44 | 40 | 51.67 | 11.78 | 0.81 | 31.7 | 100 | 66 | Peak |
| 174.99 | 33.17 | -10.33 | 43.5 | 53.71 | 9.57 | 1.57 | 31.68 | - | - | Peak |
| 212.79 | 28.89 | -14.61 | 43.5 | 48.64 | 10.18 | 1.71 | 31.64 | - | - | Peak |
| 336.4 | 18.27 | -27.73 | 46 | 33.36 | 14.31 | 2.18 | 31.58 | - | - | Peak |
| 493.9 | 20.95 | -25.05 | 46 | 32.39 | 17.69 | 2.65 | 31.78 | - | - | Peak |
| 584.9 | 22.18 | -23.82 | 46 | 32.37 | 18.96 | 2.9 | 32.05 | - | - | Peak |
| 2389.61 | 44.95 | -9.05 | 54 | 42.04 | 31.9 | 5.4 | 34.39 | 118 | 326 | Average |
| 2389.61 | 66.04 | -7.96 | 74 | 63.13 | 31.9 | 5.4 | 34.39 | 118 | 326 | Peak |
| 2412 | 107.26 | - | - | 104.29 | 31.93 | 5.43 | 34.39 | 118 | 326 | Peak |
| 2412 | 97.21 | - | - | 94.26 | 31.91 | 5.43 | 34.39 | 118 | 326 | Average |
| 2486 | 35.47 | -18.53 | 54 | 32.34 | 31.98 | 5.52 | 34.37 | 118 | 326 | Average |
| 2486 | 50.1 | -23.9 | 74 | 46.97 | 31.98 | 5.52 | 34.37 | 118 | 326 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 7 | Temperature : | 22~26°C |
| Test Channel : | 06 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 2437 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30 | 16.64 | -23.36 | 40 | 29.73 | 17.91 | 0.72 | 31.72 | - | - | Peak |
| 166.89 | 27.08 | -16.42 | 43.5 | 47.36 | 9.84 | 1.54 | 31.66 | 100 | 77 | Peak |
| 226.83 | 21.18 | -24.82 | 46 | 39.9 | 11.14 | 1.76 | 31.62 | - | - | Peak |
| 336.4 | 20.95 | -25.05 | 46 | 36.04 | 14.31 | 2.18 | 31.58 | - | - | Peak |
| 549.9 | 20.9 | -25.1 | 46 | 31.44 | 18.49 | 2.85 | 31.88 | - | - | Peak |
| 661.9 | 22.61 | -23.39 | 46 | 32.19 | 19.3 | 3.1 | 31.98 | - | - | Peak |
| 2390 | 56.25 | -17.75 | 74 | 53.34 | 31.9 | 5.4 | 34.39 | 159 | 3 | Peak |
| 2390 | 40.85 | -13.15 | 54 | 37.94 | 31.9 | 5.4 | 34.39 | 159 | 3 | Average |
| 2437 | 111.98 | - | - | 108.97 | 31.93 | 5.46 | 34.38 | 159 | 3 | Peak |
| 2437 | 100.92 | - | - | 97.89 | 31.95 | 5.46 | 34.38 | 159 | 3 | Average |
| 2486 | 39.97 | -14.03 | 54 | 36.84 | 31.98 | 5.52 | 34.37 | 159 | 3 | Average |
| 2486 | 51.63 | -22.37 | 74 | 48.5 | 31.98 | 5.52 | 34.37 | 159 | 3 | Peak |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 7 | Temperature : | 22~26°C |
| Test Channel : | 06 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 2437 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 41.34 | 32.95 | -7.05 | 40 | 52.06 | 11.78 | 0.81 | 31.7 | 100 | 89 | Peak |
| 175.53 | 33.39 | -10.11 | 43.5 | 53.96 | 9.55 | 1.56 | 31.68 | - | - | Peak |
| 213.33 | 29.25 | -14.25 | 43.5 | 48.94 | 10.24 | 1.71 | 31.64 | - | - | Peak |
| 332.9 | 17.18 | -28.82 | 46 | 32.37 | 14.22 | 2.17 | 31.58 | - | - | Peak |
| 493.9 | 21.38 | -24.62 | 46 | 32.82 | 17.69 | 2.65 | 31.78 | - | - | Peak |
| 612.9 | 21.9 | -24.1 | 46 | 31.84 | 19.2 | 2.95 | 32.09 | - | - | Peak |
| 2390 | 54.68 | -19.32 | 74 | 51.77 | 31.9 | 5.4 | 34.39 | 118 | 312 | Peak |
| 2390 | 40 | -14 | 54 | 37.09 | 31.9 | 5.4 | 34.39 | 118 | 312 | Average |
| 2437 | 109.27 | - | - | 106.26 | 31.93 | 5.46 | 34.38 | 118 | 312 | Peak |
| 2437 | 99.05 | - | - | 96.02 | 31.95 | 5.46 | 34.38 | 118 | 312 | Average |
| 2484 | 40.26 | -13.74 | 54 | 37.13 | 31.98 | 5.52 | 34.37 | 118 | 312 | Average |
| 2484 | 53.64 | -20.36 | 74 | 50.51 | 31.98 | 5.52 | 34.37 | 118 | 312 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 8 | Temperature : | 22~26°C |
| Test Channel : | 11 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 2462 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.54 | 17.12 | -22.88 | 40 | 30.81 | 17.31 | 0.72 | 31.72 | - | - | Peak |
| 165.54 | 26.57 | -16.93 | 43.5 | 46.82 | 9.88 | 1.53 | 31.66 | 100 | 32 | Peak |
| 224.13 | 21.61 | -24.39 | 46 | 40.55 | 10.95 | 1.75 | 31.64 | - | - | Peak |
| 357.4 | 20.85 | -25.15 | 46 | 35.35 | 14.8 | 2.26 | 31.56 | - | - | Peak |
| 617.8 | 21.36 | -24.64 | 46 | 31.25 | 19.21 | 2.97 | 32.07 | - | - | Peak |
| 761.3 | 23.18 | -22.82 | 46 | 31.68 | 20.23 | 3.35 | 32.08 | - | - | Peak |
| 2374 | 49.31 | -24.69 | 74 | 46.46 | 31.88 | 5.37 | 34.4 | 157 | 2 | Peak |
| 2374 | 39.39 | -14.61 | 54 | 36.54 | 31.88 | 5.37 | 34.4 | 157 | 2 | Average |
| 2462 | 108.34 | - | - | 105.26 | 31.97 | 5.49 | 34.38 | 157 | 2 | Peak |
| 2462 | 98.48 | - | - | 95.4 | 31.97 | 5.49 | 34.38 | 157 | 2 | Average |
| 2483.85 | 63.6 | -10.4 | 74 | 60.47 | 31.98 | 5.52 | 34.37 | 157 | 2 | Peak |
| 2483.85 | 45.96 | -8.04 | 54 | 42.83 | 31.98 | 5.52 | 34.37 | 157 | 2 | Average |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 8 | Temperature : | 22~26°C |
| Test Channel : | 11 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 2462 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 41.88 | 33.16 | -6.84 | 40 | 52.27 | 11.78 | 0.81 | 31.7 | 100 | 11 | Peak |
| 174.99 | 32.8 | -10.7 | 43.5 | 53.34 | 9.57 | 1.57 | 31.68 | - | - | Peak |
| 212.79 | 28.14 | -15.36 | 43.5 | 47.89 | 10.18 | 1.71 | 31.64 | - | - | Peak |
| 332.9 | 18.15 | -27.85 | 46 | 33.34 | 14.22 | 2.17 | 31.58 | - | - | Peak |
| 493.9 | 21.18 | -24.82 | 46 | 32.62 | 17.69 | 2.65 | 31.78 | - | - | Peak |
| 640.9 | 21.82 | -24.18 | 46 | 31.53 | 19.26 | 3.03 | 32 | - | - | Peak |
| 2372 | 45.9 | -28.1 | 74 | 43.05 | 31.88 | 5.37 | 34.4 | 172 | 321 | Peak |
| 2372 | 34.07 | -19.93 | 54 | 31.22 | 31.88 | 5.37 | 34.4 | 172 | 321 | Average |
| 2462 | 96.05 | - | - | 92.97 | 31.97 | 5.49 | 34.38 | 172 | 321 | Average |
| 2462 | 106.83 | - | - | 103.75 | 31.97 | 5.49 | 34.38 | 172 | 321 | Peak |
| 2483.85 | 43.97 | -10.03 | 54 | 40.84 | 31.98 | 5.52 | 34.37 | 172 | 321 | Average |
| 2483.85 | 59.54 | -14.46 | 74 | 56.41 | 31.98 | 5.52 | 34.37 | 172 | 321 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 9 | Temperature : | 22~26°C |
| Test Channel : | 12 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 2467 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2366 | 34.35 | -19.65 | 54 | 31.52 | 31.86 | 5.37 | 34.4 | 100 | 1 | Average |
| 2366 | 46.53 | -27.47 | 74 | 43.7 | 31.86 | 5.37 | 34.4 | 100 | 1 | Peak |
| 2467 | 92.64 | - | - | 89.56 | 31.97 | 5.49 | 34.38 | 100 | 1 | Average |
| 2467 | 102.88 | - | - | 99.8 | 31.97 | 5.49 | 34.38 | 100 | 1 | Peak |
| 2483.5 | 47.84 | -6.16 | 54 | 44.71 | 31.98 | 5.52 | 34.37 | 100 | 1 | Average |
| 2483.5 | 68.06 | -5.94 | 74 | 64.93 | 31.98 | 5.52 | 34.37 | 100 | 1 | Peak |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 9 | Temperature : | 22~26°C |
| Test Channel : | 12 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 2467 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2316 | 33.55 | -20.45 | 54 | 30.84 | 31.81 | 5.31 | 34.41 | 117 | 300 | Average |
| 2316 | 45.52 | -28.48 | 74 | 42.81 | 31.81 | 5.31 | 34.41 | 117 | 300 | Peak |
| 2467 | 88.46 | - | - | 85.38 | 31.97 | 5.49 | 34.38 | 117 | 300 | Average |
| 2467 | 99.15 | - | - | 96.07 | 31.97 | 5.49 | 34.38 | 117 | 300 | Peak |
| 2483.5 | 43.88 | -10.12 | 54 | 40.75 | 31.98 | 5.52 | 34.37 | 117 | 300 | Average |
| 2483.5 | 63.93 | -10.07 | 74 | 60.8 | 31.98 | 5.52 | 34.37 | 117 | 300 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 10 | Temperature : | 22~26°C |
| Test Channel : | 13 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 2472 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2334 | 45.34 | -28.66 | 74 | 42.58 | 31.83 | 5.34 | 34.41 | 189 | 7 | Peak |
| 2334 | 33.21 | -20.79 | 54 | 30.45 | 31.83 | 5.34 | 34.41 | 189 | 7 | Average |
| 2472 | 77.87 | - | - | 74.79 | 31.97 | 5.49 | 34.38 | 189 | 7 | Peak |
| 2472 | 74.72 | - | - | 71.63 | 31.98 | 5.49 | 34.38 | 189 | 7 | Average |
| 2483.37 | 58.39 | -15.61 | 74 | 55.26 | 31.98 | 5.52 | 34.37 | 189 | 7 | Peak |
| 2483.37 | 45.03 | -8.97 | 54 | 41.9 | 31.98 | 5.52 | 34.37 | 189 | 7 | Average |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 10 | Temperature : | 22~26°C |
| Test Channel : | 13 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 2472 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2356 | 45.04 | -28.96 | 74 | 42.25 | 31.86 | 5.34 | 34.41 | 100 | 285 | Peak |
| 2356 | 33.48 | -20.52 | 54 | 30.69 | 31.86 | 5.34 | 34.41 | 100 | 285 | Average |
| 2472 | 73.77 | - | - | 70.69 | 31.97 | 5.49 | 34.38 | 100 | 285 | Peak |
| 2472 | 70.97 | - | - | 67.88 | 31.98 | 5.49 | 34.38 | 100 | 285 | Average |
| 2483.5 | 43.26 | -10.74 | 54 | 40.13 | 31.98 | 5.52 | 34.37 | 100 | 285 | Average |
| 2483.5 | 56.37 | -17.63 | 74 | 53.24 | 31.98 | 5.52 | 34.37 | 100 | 285 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 11 | Temperature : | 22~26°C |
| Test Channel : | 01 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 2412 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.81 | 15.67 | -24.33 | 40 | 29.36 | 17.31 | 0.72 | 31.72 | - | - | Peak |
| 165.54 | 26.82 | -16.68 | 43.5 | 47.07 | 9.88 | 1.53 | 31.66 | 100 | 77 | Peak |
| 230.34 | 21.16 | -24.84 | 46 | 39.59 | 11.39 | 1.78 | 31.6 | - | - | Peak |
| 337.8 | 20.73 | -25.27 | 46 | 35.78 | 14.33 | 2.19 | 31.57 | - | - | Peak |
| 596.8 | 21.82 | -24.18 | 46 | 31.9 | 19.12 | 2.91 | 32.11 | - | - | Peak |
| 775.3 | 24.12 | -21.88 | 46 | 32.38 | 20.42 | 3.36 | 32.04 | - | - | Peak |
| 2389.61 | 48.28 | -5.72 | 54 | 45.37 | 31.9 | 5.4 | 34.39 | 161 | 360 | Average |
| 2389.61 | 71.97 | -2.03 | 74 | 69.06 | 31.9 | 5.4 | 34.39 | 161 | 360 | Peak |
| 2412 | 98.39 | - | - | 95.44 | 31.91 | 5.43 | 34.39 | 161 | 360 | Average |
| 2412 | 109.1 | - | - | 106.15 | 31.91 | 5.43 | 34.39 | 161 | 360 | Peak |
| 2486 | 53.8 | -20.2 | 74 | 50.67 | 31.98 | 5.52 | 34.37 | 161 | 360 | Peak |
| 2486 | 38.99 | -15.01 | 54 | 35.86 | 31.98 | 5.52 | 34.37 | 161 | 360 | Average |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 11 | Temperature : | 22~26°C |
| Test Channel : | 01 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 2412 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 41.34 | 33.15 | -6.85 | 40 | 52.26 | 11.78 | 0.81 | 31.7 | 100 | 211 | Peak |
| 174.18 | 32.71 | -10.79 | 43.5 | 53.25 | 9.57 | 1.57 | 31.68 | - | - | Peak |
| 214.14 | 28.89 | -14.61 | 43.5 | 48.51 | 10.31 | 1.71 | 31.64 | - | - | Peak |
| 336.4 | 18.16 | -27.84 | 46 | 33.25 | 14.31 | 2.18 | 31.58 | - | - | Peak |
| 432.3 | 18.19 | -27.81 | 46 | 31.12 | 16.44 | 2.47 | 31.84 | - | - | Peak |
| 493.9 | 21.63 | -24.37 | 46 | 33.07 | 17.69 | 2.65 | 31.78 | - | - | Peak |
| 2389.99 | 45.5 | -8.5 | 54 | 42.59 | 31.9 | 5.4 | 34.39 | 143 | 315 | Average |
| 2389.99 | 68.29 | -5.71 | 74 | 65.38 | 31.9 | 5.4 | 34.39 | 143 | 315 | Peak |
| 2412 | 107.52 | - | - | 104.57 | 31.91 | 5.43 | 34.39 | 143 | 315 | Peak |
| 2412 | 97.45 | - | - | 94.5 | 31.91 | 5.43 | 34.39 | 143 | 315 | Average |
| 2486 | 39.05 | -14.95 | 54 | 35.92 | 31.98 | 5.52 | 34.37 | 143 | 315 | Average |
| 2486 | 51.21 | -22.79 | 74 | 48.08 | 31.98 | 5.52 | 34.37 | 143 | 315 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 12 | Temperature : | 22~26°C |
| Test Channel : | 06 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 2437 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30 | 17.25 | -22.75 | 40 | 30.34 | 17.91 | 0.72 | 31.72 | - | - | Peak |
| 165.54 | 26.97 | -16.53 | 43.5 | 47.22 | 9.88 | 1.53 | 31.66 | 100 | 221 | Peak |
| 227.64 | 21.51 | -24.49 | 46 | 40.15 | 11.2 | 1.77 | 31.61 | - | - | Peak |
| 357.4 | 20.86 | -25.14 | 46 | 35.36 | 14.8 | 2.26 | 31.56 | - | - | Peak |
| 584.9 | 21.51 | -24.49 | 46 | 31.7 | 18.96 | 2.9 | 32.05 | - | - | Peak |
| 747.3 | 22.96 | -23.04 | 46 | 31.68 | 20.03 | 3.35 | 32.1 | - | - | Peak |
| 2390 | 58.01 | -15.99 | 74 | 55.1 | 31.9 | 5.4 | 34.39 | 158 | 1 | Peak |
| 2390 | 40.61 | -13.39 | 54 | 37.7 | 31.9 | 5.4 | 34.39 | 158 | 1 | Average |
| 2437 | 111.5 | - | - | 108.49 | 31.93 | 5.46 | 34.38 | 158 | 1 | Peak |
| 2437 | 100.91 | - | - | 97.88 | 31.95 | 5.46 | 34.38 | 158 | 1 | Average |
| 2484 | 39.85 | -14.15 | 54 | 36.72 | 31.98 | 5.52 | 34.37 | 158 | 1 | Average |
| 2484 | 52.61 | -21.39 | 74 | 49.48 | 31.98 | 5.52 | 34.37 | 158 | 1 | Peak |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 12 | Temperature : | 22~26°C |
| Test Channel : | 06 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 2437 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 41.88 | 33.03 | -6.97 | 40 | 52.14 | 11.78 | 0.81 | 31.7 | 100 | 32 | Peak |
| 174.99 | 32.86 | -10.64 | 43.5 | 53.4 | 9.57 | 1.57 | 31.68 | - | - | Peak |
| 211.98 | 28.62 | -14.88 | 43.5 | 48.36 | 10.18 | 1.71 | 31.63 | - | - | Peak |
| 404.3 | 18.22 | -27.78 | 46 | 31.74 | 15.86 | 2.42 | 31.8 | - | - | Peak |
| 551.3 | 21.72 | -24.28 | 46 | 32.25 | 18.51 | 2.85 | 31.89 | - | - | Peak |
| 742.4 | 22.88 | -23.12 | 46 | 31.66 | 19.97 | 3.34 | 32.09 | - | - | Peak |
| 2390 | 55.89 | -18.11 | 74 | 52.98 | 31.9 | 5.4 | 34.39 | 117 | 313 | Peak |
| 2390 | 39.61 | -14.39 | 54 | 36.7 | 31.9 | 5.4 | 34.39 | 117 | 313 | Average |
| 2437 | 109.46 | - | - | 106.45 | 31.93 | 5.46 | 34.38 | 117 | 313 | Peak |
| 2437 | 98.66 | - | - | 95.63 | 31.95 | 5.46 | 34.38 | 117 | 313 | Average |
| 2484 | 40.41 | -13.59 | 54 | 37.28 | 31.98 | 5.52 | 34.37 | 117 | 313 | Average |
| 2484 | 53.77 | -20.23 | 74 | 50.64 | 31.98 | 5.52 | 34.37 | 117 | 313 | Peak |



| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 13 | Temperature : | 22~26°C |
| Test Channel : | 11 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 2462 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 30.54 | 16.07 | -23.93 | 40 | 29.76 | 17.31 | 0.72 | 31.72 | - | - | Peak |
| 165.54 | 27.89 | -15.61 | 43.5 | 48.14 | 9.88 | 1.53 | 31.66 | 100 | 211 | Peak |
| 229.53 | 22.44 | -23.56 | 46 | 40.93 | 11.33 | 1.77 | 31.59 | - | - | Peak |
| 357.4 | 20.43 | -25.57 | 46 | 34.93 | 14.8 | 2.26 | 31.56 | - | - | Peak |
| 544.3 | 21.11 | -24.89 | 46 | 31.73 | 18.42 | 2.83 | 31.87 | - | - | Peak |
| 659.8 | 22.2 | -23.8 | 46 | 31.79 | 19.3 | 3.09 | 31.98 | - | - | Peak |
| 2380 | 51.37 | -22.63 | 74 | 48.48 | 31.88 | 5.4 | 34.39 | 157 | 2 | Peak |
| 2380 | 39.41 | -14.59 | 54 | 36.52 | 31.88 | 5.4 | 34.39 | 157 | 2 | Average |
| 2462 | 107.57 | - | - | 104.49 | 31.97 | 5.49 | 34.38 | 157 | 2 | Peak |
| 2462 | 97.24 | - | - | 94.16 | 31.97 | 5.49 | 34.38 | 157 | 2 | Average |
| 2483.66 | 45.67 | -8.33 | 54 | 42.54 | 31.98 | 5.52 | 34.37 | 157 | 2 | Average |
| 2483.66 | 65.56 | -8.44 | 74 | 62.43 | 31.98 | 5.52 | 34.37 | 157 | 2 | Peak |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 13 | Temperature : | 22~26°C |
| Test Channel : | 11 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 2462 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 41.34 | 33.18 | -6.82 | 40 | 52.29 | 11.78 | 0.81 | 31.7 | 100 | 145 | Peak |
| 174.99 | 32.65 | -10.85 | 43.5 | 53.19 | 9.57 | 1.57 | 31.68 | - | - | Peak |
| 211.44 | 28.49 | -15.01 | 43.5 | 48.3 | 10.12 | 1.7 | 31.63 | - | - | Peak |
| 329.4 | 17.43 | -28.57 | 46 | 32.71 | 14.15 | 2.16 | 31.59 | - | - | Peak |
| 421.8 | 19.39 | -26.61 | 46 | 32.55 | 16.22 | 2.45 | 31.83 | - | - | Peak |
| 505.8 | 20.78 | -25.22 | 46 | 31.97 | 17.91 | 2.69 | 31.79 | - | - | Peak |
| 2380 | 49.27 | -24.73 | 74 | 46.38 | 31.88 | 5.4 | 34.39 | 114 | 320 | Peak |
| 2380 | 38.44 | -15.56 | 54 | 35.55 | 31.88 | 5.4 | 34.39 | 114 | 320 | Average |
| 2462 | 104.38 | - | - | 101.3 | 31.97 | 5.49 | 34.38 | 114 | 320 | Peak |
| 2462 | 93.62 | - | - | 90.54 | 31.97 | 5.49 | 34.38 | 114 | 320 | Average |
| 2485.18 | 45.2 | -8.8 | 54 | 42.07 | 31.98 | 5.52 | 34.37 | 114 | 320 | Average |
| 2485.18 | 62.59 | -11.41 | 74 | 59.46 | 31.98 | 5.52 | 34.37 | 114 | 320 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 14 | Temperature : | 22~26°C |
| Test Channel : | 12 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 2467 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2356 | 47.32 | -26.68 | 74 | 44.53 | 31.86 | 5.34 | 34.41 | 104 | 12 | Peak |
| 2356 | 35.38 | -18.62 | 54 | 32.59 | 31.86 | 5.34 | 34.41 | 104 | 12 | Average |
| 2467 | 102.38 | - | - | 99.3 | 31.97 | 5.49 | 34.38 | 104 | 12 | Peak |
| 2467 | 91.89 | - | - | 88.81 | 31.97 | 5.49 | 34.38 | 104 | 12 | Average |
| 2483.5 | 47.77 | -6.23 | 54 | 44.64 | 31.98 | 5.52 | 34.37 | 104 | 12 | Average |
| 2483.5 | 70.1 | -3.9 | 74 | 66.97 | 31.98 | 5.52 | 34.37 | 104 | 12 | Peak |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 14 | Temperature : | 22~26°C |
| Test Channel : | 12 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 2467 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2388 | 47.54 | -26.46 | 74 | 44.63 | 31.9 | 5.4 | 34.39 | 100 | 288 | Peak |
| 2388 | 34.95 | -19.05 | 54 | 32.04 | 31.9 | 5.4 | 34.39 | 100 | 288 | Average |
| 2467 | 100.37 | - | - | 97.29 | 31.97 | 5.49 | 34.38 | 100 | 288 | Peak |
| 2467 | 89.86 | - | - | 86.78 | 31.97 | 5.49 | 34.38 | 100 | 288 | Average |
| 2483.5 | 45.46 | -8.54 | 54 | 42.33 | 31.98 | 5.52 | 34.37 | 100 | 288 | Average |
| 2483.5 | 67.17 | -6.83 | 74 | 64.04 | 31.98 | 5.52 | 34.37 | 100 | 288 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 15 | Temperature : | 22~26°C |
| Test Channel : | 13 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 2472 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2390 | 45.45 | -28.55 | 74 | 42.54 | 31.9 | 5.4 | 34.39 | 188 | 9 | Peak |
| 2390 | 33.34 | -20.66 | 54 | 30.43 | 31.9 | 5.4 | 34.39 | 188 | 9 | Average |
| 2472 | 77.75 | - | - | 74.67 | 31.97 | 5.49 | 34.38 | 188 | 9 | Peak |
| 2472 | 74.68 | - | - | 71.59 | 31.98 | 5.49 | 34.38 | 188 | 9 | Average |
| 2483.66 | 59.27 | -14.73 | 74 | 56.14 | 31.98 | 5.52 | 34.37 | 188 | 9 | Peak |
| 2483.66 | 44.86 | -9.14 | 54 | 41.73 | 31.98 | 5.52 | 34.37 | 188 | 9 | Average |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 15 | Temperature : | 22~26°C |
| Test Channel : | 13 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 2472 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 2332 | 44.99 | -29.01 | 74 | 42.23 | 31.83 | 5.34 | 34.41 | 100 | 284 | Peak |
| 2332 | 33.43 | -20.57 | 54 | 30.67 | 31.83 | 5.34 | 34.41 | 100 | 284 | Average |
| 2472 | 73.44 | - | - | 70.36 | 31.97 | 5.49 | 34.38 | 100 | 284 | Peak |
| 2472 | 70.68 | - | - | 67.59 | 31.98 | 5.49 | 34.38 | 100 | 284 | Average |
| 2483.66 | 56.96 | -17.04 | 74 | 53.83 | 31.98 | 5.52 | 34.37 | 100 | 284 | Peak |
| 2483.66 | 42.37 | -11.63 | 54 | 39.24 | 31.98 | 5.52 | 34.37 | 100 | 284 | Average |

| | | | |
|------------------------|--|----------------------------|------------|
| Test Mode : | Mode 16 | Temperature : | 22~26°C |
| Test Channel : | 01 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 1. 2412 MHz is Fundamental Signals which can be ignored. 2. 2534 MHz and 2574 MHz are not within a restricted band. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 168.78 | 23.7 | -19.8 | 43.5 | 44.04 | 9.77 | 1.56 | 31.67 | - | - | Peak |
| 195.24 | 33.19 | -10.31 | 43.5 | 53.84 | 9.37 | 1.63 | 31.65 | 100 | 111 | Peak |
| 220.89 | 31.24 | -14.76 | 46 | 50.42 | 10.75 | 1.74 | 31.67 | - | - | Peak |
| 301.4 | 21.02 | -24.98 | 46 | 37.12 | 13.5 | 2.07 | 31.67 | - | - | Peak |
| 654.9 | 21.95 | -24.05 | 46 | 31.56 | 19.29 | 3.07 | 31.97 | - | - | Peak |
| 876.8 | 25.23 | -20.77 | 46 | 31.88 | 21.43 | 3.66 | 31.74 | - | - | Peak |
| 2333.37 | 38.54 | -15.46 | 54 | 35.78 | 31.83 | 5.34 | 34.41 | 100 | 110 | Average |
| 2333.37 | 50.77 | -23.23 | 74 | 48.01 | 31.83 | 5.34 | 34.41 | 100 | 110 | Peak |
| 2412 | 109.46 | - | - | 106.51 | 31.91 | 5.43 | 34.39 | 100 | 110 | Peak |
| 2412 | 99.88 | - | - | 96.93 | 31.91 | 5.43 | 34.39 | 100 | 110 | Average |
| 2492 | 34.56 | -19.44 | 54 | 31.41 | 32 | 5.52 | 34.37 | 100 | 110 | Average |
| 2492 | 51.84 | -22.16 | 74 | 48.69 | 32 | 5.52 | 34.37 | 100 | 110 | Peak |
| 2534 | 55.16 | -34.3 | 89.46 | 51.89 | 32.03 | 5.57 | 34.33 | 100 | 110 | Peak |
| 2574 | 59.52 | -29.94 | 89.46 | 56.1 | 32.08 | 5.63 | 34.29 | 100 | 110 | Peak |

| | | | |
|------------------------|--|----------------------------|----------|
| Test Mode : | Mode 16 | Temperature : | 22~26°C |
| Test Channel : | 01 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 1. 2412 MHz is Fundamental Signals which can be ignored. 2. 2534 MHz and 2574 MHz are not within a restricted band. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 35.13 | 28.06 | -11.94 | 40 | 44.09 | 14.93 | 0.74 | 31.7 | - | - | Peak |
| 195.24 | 36.65 | -6.85 | 43.5 | 57.3 | 9.37 | 1.63 | 31.65 | 100 | 65 | Peak |
| 220.89 | 35.95 | -10.05 | 46 | 55.13 | 10.75 | 1.74 | 31.67 | - | - | Peak |
| 407.8 | 17.52 | -28.48 | 46 | 30.99 | 15.92 | 2.42 | 31.81 | - | - | Peak |
| 540.8 | 20.89 | -25.11 | 46 | 31.55 | 18.38 | 2.82 | 31.86 | - | - | Peak |
| 647.9 | 23.07 | -22.93 | 46 | 32.74 | 19.27 | 3.04 | 31.98 | - | - | Peak |
| 2386.57 | 38.13 | -15.87 | 54 | 35.22 | 31.9 | 5.4 | 34.39 | 100 | 2 | Average |
| 2386.57 | 50.32 | -23.68 | 74 | 47.41 | 31.9 | 5.4 | 34.39 | 100 | 2 | Peak |
| 2412 | 106.25 | - | - | 103.3 | 31.91 | 5.43 | 34.39 | 100 | 2 | Peak |
| 2412 | 96.31 | - | - | 93.36 | 31.91 | 5.43 | 34.39 | 100 | 2 | Average |
| 2492 | 34.13 | -19.87 | 54 | 30.98 | 32 | 5.52 | 34.37 | 100 | 2 | Average |
| 2492 | 51.84 | -22.16 | 74 | 48.69 | 32 | 5.52 | 34.37 | 100 | 2 | Peak |
| 2534 | 53.93 | -32.32 | 86.25 | 50.66 | 32.03 | 5.57 | 34.33 | 100 | 2 | Peak |
| 2574 | 59.94 | -26.31 | 86.25 | 56.52 | 32.08 | 5.63 | 34.29 | 100 | 2 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 17 | Temperature : | 22~26°C |
| Test Channel : | 149 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 1. 5745 MHz is Fundamental Signals which can be ignored. 2. 17235 MHz is not within a restricted band. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 126.66 | 28.13 | -15.37 | 43.5 | 47 | 11.57 | 1.13 | 31.57 | 144 | 192 | Peak |
| 161.22 | 24.31 | -19.19 | 43.5 | 44.29 | 10.32 | 1.22 | 31.52 | - | - | Peak |
| 214.41 | 24.15 | -19.35 | 43.5 | 44.11 | 10.13 | 1.38 | 31.47 | - | - | Peak |
| 337.8 | 22.23 | -23.77 | 46 | 37.02 | 14.63 | 1.88 | 31.3 | - | - | Peak |
| 595.4 | 21.27 | -24.73 | 46 | 29.82 | 19.7 | 2.68 | 30.93 | - | - | Peak |
| 806.1 | 24.51 | -21.49 | 46 | 29.5 | 22.54 | 3.16 | 30.69 | - | - | Peak |
| 5745 | 114.98 | - | - | 103.44 | 34.84 | 9.91 | 33.21 | 100 | 313 | Peak |
| 5745 | 104.54 | - | - | 93 | 34.84 | 9.91 | 33.21 | 100 | 313 | Average |
| 17235 | 52.49 | -42.49 | 94.98 | 53.69 | 41.87 | 14.37 | 57.44 | 100 | 0 | Peak |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 17 | Temperature : | 22~26°C |
| Test Channel : | 149 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 1. 5745 MHz is Fundamental Signals which can be ignored. 2. 17235 MHz is not within a restricted band. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 71.85 | 32.53 | -7.47 | 40 | 56.78 | 6.46 | 0.84 | 31.55 | 112 | 27 | Peak |
| 89.13 | 31.74 | -11.76 | 43.5 | 53.8 | 8.53 | 0.93 | 31.52 | - | - | Peak |
| 120.45 | 29.03 | -14.47 | 43.5 | 47.96 | 11.53 | 1.1 | 31.56 | - | - | Peak |
| 332.2 | 18.55 | -27.45 | 46 | 33.52 | 14.48 | 1.86 | 31.31 | - | - | Peak |
| 486.2 | 19.98 | -26.02 | 46 | 30.65 | 17.99 | 2.4 | 31.06 | - | - | Peak |
| 780.2 | 23.74 | -22.26 | 46 | 29.17 | 22.15 | 3.11 | 30.69 | - | - | Peak |
| 5745 | 107.23 | - | - | 95.69 | 34.84 | 9.91 | 33.21 | 100 | 229 | Peak |
| 5745 | 96.91 | - | - | 85.37 | 34.84 | 9.91 | 33.21 | 100 | 229 | Average |
| 17235 | 53.06 | -34.17 | 87.23 | 54.25 | 41.87 | 14.38 | 57.44 | 100 | 0 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 18 | Temperature : | 22~26°C |
| Test Channel : | 157 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 1. 5785 MHz is Fundamental Signals which can be ignored. 2. 17355 MHz is not within a restricted band. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 75.9 | 21.92 | -18.08 | 40 | 45.8 | 6.8 | 0.86 | 31.54 | - | - | Peak |
| 126.66 | 28.4 | -15.1 | 43.5 | 47.27 | 11.57 | 1.13 | 31.57 | 137 | 226 | Peak |
| 211.98 | 24.68 | -18.82 | 43.5 | 44.79 | 9.99 | 1.37 | 31.47 | - | - | Peak |
| 341.3 | 22.55 | -23.45 | 46 | 37.2 | 14.75 | 1.9 | 31.3 | - | - | Peak |
| 570.9 | 20.8 | -25.2 | 46 | 29.82 | 19.32 | 2.61 | 30.95 | - | - | Peak |
| 799.8 | 25.4 | -20.6 | 46 | 30.47 | 22.47 | 3.14 | 30.68 | - | - | Peak |
| 5785 | 115.02 | - | - | 103.47 | 34.88 | 9.9 | 33.23 | 100 | 311 | Peak |
| 5785 | 104.34 | - | - | 92.79 | 34.88 | 9.9 | 33.23 | 100 | 311 | Average |
| 17355 | 55.44 | -39.58 | 95.02 | 56.48 | 41.75 | 14.42 | 57.21 | 100 | 0 | Peak |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 18 | Temperature : | 22~26°C |
| Test Channel : | 157 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 1. 5785 MHz is Fundamental Signals which can be ignored. 2. 17355 MHz is not within a restricted band. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 72.93 | 33.43 | -6.57 | 40 | 57.59 | 6.54 | 0.85 | 31.55 | 121 | 329 | Peak |
| 88.86 | 31.85 | -11.65 | 43.5 | 53.92 | 8.53 | 0.93 | 31.53 | - | - | Peak |
| 120.18 | 28.94 | -14.56 | 43.5 | 47.87 | 11.53 | 1.1 | 31.56 | - | - | Peak |
| 327.3 | 19.32 | -26.68 | 46 | 34.49 | 14.3 | 1.84 | 31.31 | - | - | Peak |
| 561.8 | 20.9 | -25.1 | 46 | 30.12 | 19.17 | 2.58 | 30.97 | - | - | Peak |
| 755 | 23.24 | -22.76 | 46 | 29.12 | 21.75 | 3.07 | 30.7 | - | - | Peak |
| 5785 | 107.3 | - | - | 95.78 | 34.89 | 9.89 | 33.26 | 100 | 280 | Peak |
| 5785 | 96.47 | - | - | 84.92 | 34.88 | 9.9 | 33.23 | 100 | 280 | Average |
| 17355 | 57.26 | -30.04 | 87.3 | 58.3 | 41.75 | 14.42 | 57.21 | 100 | 0 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 19 | Temperature : | 22~26°C |
| Test Channel : | 165 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 1. 5825 MHz is Fundamental Signals which can be ignored. 2. 17475 MHz is not within a restricted band. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 31.62 | 18.66 | -21.34 | 40 | 33.53 | 16.04 | 0.55 | 31.46 | - | - | Peak |
| 125.85 | 28.08 | -15.42 | 43.5 | 46.96 | 11.56 | 1.13 | 31.57 | 128 | 220 | Peak |
| 160.41 | 24.19 | -19.31 | 43.5 | 44.11 | 10.38 | 1.22 | 31.52 | - | - | Peak |
| 337.8 | 21.76 | -24.24 | 46 | 36.55 | 14.63 | 1.88 | 31.3 | - | - | Peak |
| 542.9 | 20.43 | -25.57 | 46 | 29.99 | 18.89 | 2.54 | 30.99 | - | - | Peak |
| 799.8 | 24.29 | -21.71 | 46 | 29.36 | 22.47 | 3.14 | 30.68 | - | - | Peak |
| 5825 | 113.63 | - | - | 102.11 | 34.93 | 9.88 | 33.29 | 100 | 312 | Peak |
| 5825 | 103.01 | - | - | 91.49 | 34.93 | 9.88 | 33.29 | 100 | 312 | Average |
| 17475 | 55.53 | -38.1 | 93.63 | 56.41 | 41.63 | 14.46 | 56.97 | 100 | 0 | Peak |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 19 | Temperature : | 22~26°C |
| Test Channel : | 165 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 1. 5825 MHz is Fundamental Signals which can be ignored. 2. 17475 MHz is not within a restricted band. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 72.66 | 33.74 | -6.26 | 40 | 57.9 | 6.54 | 0.85 | 31.55 | 109 | 113 | Peak |
| 89.94 | 32.32 | -11.18 | 43.5 | 54.22 | 8.68 | 0.94 | 31.52 | - | - | Peak |
| 120.45 | 29.13 | -14.37 | 43.5 | 48.06 | 11.53 | 1.1 | 31.56 | - | - | Peak |
| 414.1 | 17.71 | -28.29 | 46 | 29.88 | 16.8 | 2.19 | 31.16 | - | - | Peak |
| 589.8 | 20.63 | -25.37 | 46 | 29.29 | 19.61 | 2.66 | 30.93 | - | - | Peak |
| 710.2 | 22.28 | -23.72 | 46 | 29.07 | 21.04 | 2.96 | 30.79 | - | - | Peak |
| 5825 | 106.11 | - | - | 94.59 | 34.93 | 9.88 | 33.29 | 100 | 288 | Peak |
| 5825 | 95.79 | - | - | 84.27 | 34.93 | 9.88 | 33.29 | 100 | 288 | Average |
| 17475 | 57.92 | -28.19 | 86.11 | 58.8 | 41.63 | 14.46 | 56.97 | 100 | 0 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 20 | Temperature : | 22~26°C |
| Test Channel : | 149 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 5745 MHz is Fundamental Signals which can be ignored. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 125.85 | 28.17 | -15.33 | 43.5 | 47.05 | 11.56 | 1.13 | 31.57 | 133 | 118 | Peak |
| 160.41 | 24.68 | -18.82 | 43.5 | 44.6 | 10.38 | 1.22 | 31.52 | - | - | Peak |
| 225.21 | 25.44 | -20.56 | 46 | 44.55 | 10.89 | 1.45 | 31.45 | - | - | Peak |
| 341.3 | 22.49 | -23.51 | 46 | 37.14 | 14.75 | 1.9 | 31.3 | - | - | Peak |
| 584.9 | 20.84 | -25.16 | 46 | 29.6 | 19.53 | 2.65 | 30.94 | - | - | Peak |
| 806.1 | 25.03 | -20.97 | 46 | 30.02 | 22.54 | 3.16 | 30.69 | - | - | Peak |
| 5745 | 114.01 | - | - | 102.47 | 34.84 | 9.91 | 33.21 | 100 | 323 | Peak |
| 5745 | 103.64 | - | - | 92.1 | 34.84 | 9.91 | 33.21 | 100 | 323 | Average |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 20 | Temperature : | 22~26°C |
| Test Channel : | 149 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 1. 5745 MHz is Fundamental Signals which can be ignored. 2. 17235 MHz is not within a restricted band. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 73.74 | 32.91 | -7.09 | 40 | 56.97 | 6.63 | 0.85 | 31.54 | 105 | 153 | Peak |
| 89.67 | 31.99 | -11.51 | 43.5 | 53.89 | 8.68 | 0.94 | 31.52 | - | - | Peak |
| 122.34 | 28.96 | -14.54 | 43.5 | 47.87 | 11.54 | 1.11 | 31.56 | - | - | Peak |
| 402.2 | 18.22 | -27.78 | 46 | 30.64 | 16.61 | 2.15 | 31.18 | - | - | Peak |
| 649.3 | 22.6 | -23.4 | 46 | 30.32 | 20.31 | 2.84 | 30.87 | - | - | Peak |
| 850.9 | 25.64 | -20.36 | 46 | 30.04 | 23.06 | 3.27 | 30.73 | - | - | Peak |
| 5745 | 106.75 | - | - | 95.21 | 34.84 | 9.91 | 33.21 | 100 | 228 | Peak |
| 5745 | 96.3 | - | - | 84.76 | 34.84 | 9.91 | 33.21 | 100 | 228 | Average |
| 17235 | 54.57 | -32.18 | 86.75 | 55.76 | 41.87 | 14.38 | 57.44 | 100 | 0 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 21 | Temperature : | 22~26°C |
| Test Channel : | 157 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 1. 5785 MHz is Fundamental Signals which can be ignored. 2. 17355 MHz is not within a restricted band. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 124.77 | 28.05 | -15.45 | 43.5 | 46.93 | 11.56 | 1.12 | 31.56 | 140 | 300 | Peak |
| 159.33 | 23.95 | -19.55 | 43.5 | 43.8 | 10.45 | 1.22 | 31.52 | - | - | Peak |
| 211.98 | 25.54 | -17.96 | 43.5 | 45.65 | 9.99 | 1.37 | 31.47 | - | - | Peak |
| 341.3 | 21.96 | -24.04 | 46 | 36.61 | 14.75 | 1.9 | 31.3 | - | - | Peak |
| 528.2 | 20.47 | -25.53 | 46 | 30.32 | 18.66 | 2.51 | 31.02 | - | - | Peak |
| 806.1 | 25.24 | -20.76 | 46 | 30.23 | 22.54 | 3.16 | 30.69 | - | - | Peak |
| 5785 | 114.02 | - | - | 102.47 | 34.88 | 9.9 | 33.23 | 100 | 311 | Peak |
| 5785 | 103.77 | - | - | 92.22 | 34.88 | 9.9 | 33.23 | 100 | 311 | Average |
| 17355 | 55.05 | -38.97 | 94.02 | 56.09 | 41.75 | 14.42 | 57.21 | 100 | 0 | Peak |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 21 | Temperature : | 22~26°C |
| Test Channel : | 157 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 1. 5785 MHz is Fundamental Signals which can be ignored. 2. 17355 MHz is not within a restricted band. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 78.33 | 32.34 | -7.66 | 40 | 55.95 | 7.05 | 0.87 | 31.53 | 115 | 43 | Peak |
| 88.86 | 32.29 | -11.21 | 43.5 | 54.36 | 8.53 | 0.93 | 31.53 | - | - | Peak |
| 121.53 | 28.29 | -15.21 | 43.5 | 47.2 | 11.54 | 1.11 | 31.56 | - | - | Peak |
| 321.7 | 18.32 | -27.68 | 46 | 33.67 | 14.15 | 1.82 | 31.32 | - | - | Peak |
| 514.2 | 19.39 | -26.61 | 46 | 29.51 | 18.44 | 2.48 | 31.04 | - | - | Peak |
| 747.3 | 23.52 | -22.48 | 46 | 29.55 | 21.63 | 3.05 | 30.71 | - | - | Peak |
| 5785 | 107.3 | - | - | 95.75 | 34.88 | 9.9 | 33.23 | 100 | 281 | Peak |
| 5785 | 95.76 | - | - | 84.21 | 34.88 | 9.9 | 33.23 | 100 | 281 | Average |
| 17355 | 57.17 | -30.13 | 87.3 | 58.21 | 41.75 | 14.42 | 57.21 | 100 | 0 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 22 | Temperature : | 22~26°C |
| Test Channel : | 165 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 1. 5825 MHz is Fundamental Signals which can be ignored. 2. 17475 MHz is not within a restricted band. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 124.77 | 28.13 | -15.37 | 43.5 | 47.01 | 11.56 | 1.12 | 31.56 | 126 | 191 | Peak |
| 160.41 | 25 | -18.5 | 43.5 | 44.92 | 10.38 | 1.22 | 31.52 | - | - | Peak |
| 212.25 | 25 | -18.5 | 43.5 | 45.11 | 9.99 | 1.37 | 31.47 | - | - | Peak |
| 341.3 | 22.44 | -23.56 | 46 | 37.09 | 14.75 | 1.9 | 31.3 | - | - | Peak |
| 600.3 | 20.81 | -25.19 | 46 | 29.27 | 19.77 | 2.69 | 30.92 | - | - | Peak |
| 794.2 | 24.48 | -21.52 | 46 | 29.65 | 22.38 | 3.13 | 30.68 | - | - | Peak |
| 5825 | 114.13 | - | - | 102.61 | 34.93 | 9.88 | 33.29 | 100 | 309 | Peak |
| 5825 | 103.4 | - | - | 91.88 | 34.93 | 9.88 | 33.29 | 100 | 309 | Average |
| 17475 | 53.6 | -40.53 | 94.13 | 54.49 | 41.63 | 14.45 | 56.97 | 100 | 0 | Peak |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 22 | Temperature : | 22~26°C |
| Test Channel : | 165 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 1. 5825 MHz is Fundamental Signals which can be ignored. 2. 17475 MHz is not within a restricted band. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 79.14 | 32.06 | -7.94 | 40 | 55.57 | 7.14 | 0.88 | 31.53 | 106 | 101 | Peak |
| 121.53 | 28.33 | -15.17 | 43.5 | 47.24 | 11.54 | 1.11 | 31.56 | - | - | Peak |
| 184.17 | 23.67 | -19.83 | 43.5 | 44.88 | 9.05 | 1.26 | 31.52 | - | - | Peak |
| 500.2 | 19.22 | -26.78 | 46 | 29.61 | 18.23 | 2.45 | 31.07 | - | - | Peak |
| 657 | 22.41 | -23.59 | 46 | 30.02 | 20.4 | 2.85 | 30.86 | - | - | Peak |
| 808.9 | 24.88 | -21.12 | 46 | 29.84 | 22.57 | 3.16 | 30.69 | - | - | Peak |
| 5825 | 107.17 | - | - | 95.65 | 34.93 | 9.88 | 33.29 | 100 | 281 | Peak |
| 5825 | 96.55 | - | - | 85.03 | 34.93 | 9.88 | 33.29 | 100 | 281 | Average |
| 17475 | 58.79 | -28.38 | 87.17 | 59.67 | 41.63 | 14.46 | 56.97 | 100 | 0 | Peak |

| | | | |
|------------------------|---|----------------------------|------------|
| Test Mode : | Mode 23 | Temperature : | 22~26°C |
| Test Channel : | 165 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Horizontal |
| Remark : | 1. 5825 MHz is Fundamental Signals which can be ignored. 2. 17475 MHz is not within a restricted band. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 121.26 | 27.9 | -15.6 | 43.5 | 46.81 | 11.54 | 1.11 | 31.56 | 100 | 133 | Peak |
| 174.18 | 21.98 | -21.52 | 43.5 | 42.79 | 9.47 | 1.24 | 31.52 | - | - | Peak |
| 225.21 | 25 | -21 | 46 | 44.11 | 10.89 | 1.45 | 31.45 | - | - | Peak |
| 388.9 | 20.86 | -25.14 | 46 | 33.72 | 16.23 | 2.12 | 31.21 | - | - | Peak |
| 680.1 | 21.45 | -24.55 | 46 | 28.73 | 20.66 | 2.9 | 30.84 | - | - | Peak |
| 806.1 | 24.36 | -21.64 | 46 | 29.35 | 22.54 | 3.16 | 30.69 | - | - | Peak |
| 5825 | 108.47 | - | - | 96.95 | 34.93 | 9.88 | 33.29 | 178 | 282 | Peak |
| 5825 | 97.8 | - | - | 86.28 | 34.93 | 9.88 | 33.29 | 178 | 282 | Average |
| 17475 | 55.58 | -32.89 | 88.47 | 56.47 | 41.63 | 14.45 | 56.97 | 100 | 0 | Peak |

| | | | |
|------------------------|---|----------------------------|----------|
| Test Mode : | Mode 23 | Temperature : | 22~26°C |
| Test Channel : | 165 | Relative Humidity : | 51~55% |
| Test Engineer : | Wii Chang | Polarization : | Vertical |
| Remark : | 1. 5825 MHz is Fundamental Signals which can be ignored. 2. 17475 MHz is not within a restricted band. | | |

| Frequency (MHz) | Level (dBuV/m) | Over Limit (dB) | Limit Line (dBuV/m) | Read Level (dBuV) | Antenna Factor (dB) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Remark |
|----------------------|---------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|----------------------------|----------------------|-------------------------|---------|
| 78.33 | 32.17 | -7.83 | 40 | 55.78 | 7.05 | 0.87 | 31.53 | 120 | 284 | Peak |
| 106.41 | 27.14 | -16.36 | 43.5 | 47.29 | 10.37 | 1.03 | 31.55 | - | - | Peak |
| 179.58 | 22.89 | -20.61 | 43.5 | 44.06 | 9.11 | 1.25 | 31.53 | - | - | Peak |
| 310.5 | 21.18 | -24.82 | 46 | 36.92 | 13.79 | 1.79 | 31.32 | - | - | Peak |
| 635.3 | 21.11 | -24.89 | 46 | 29.03 | 20.16 | 2.8 | 30.88 | - | - | Peak |
| 957.3 | 25.73 | -20.27 | 46 | 28.48 | 24.35 | 3.47 | 30.57 | - | - | Peak |
| 5825 | 114.43 | - | - | 102.91 | 34.93 | 9.88 | 33.29 | 110 | 296 | Peak |
| 5825 | 103.75 | - | - | 92.23 | 34.93 | 9.88 | 33.29 | 110 | 296 | Average |
| 17475 | 56.84 | -37.59 | 94.43 | 57.73 | 41.63 | 14.45 | 56.97 | 100 | 0 | Peak |

3.8 Antenna Requirements

3.8.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

3.8.2 Antenna Connected Construction

The antennas type used in this product is PIFA Antenna without connector and it is considered to meet antenna requirement.

3.8.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

4 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Due Date | Remark |
|-------------------|--------------|-----------|------------|-----------------|------------------|---------------|----------------------|
| Spectrum Analyzer | R&S | FSP40 | 100055 | 9kHz~40GHz | Jun. 13, 2011 | Jun. 12, 2012 | Conducted (TH02-HY) |
| Power Meter | Anritsu | ML2495A | 0932001 | N/A | Sep. 13, 2010 | Sep. 12, 2011 | Conducted (TH02-HY) |
| Power Sensor | Anritsu | MA2411B | 0846202 | N/A | Sep. 14, 2010 | Sep. 13, 2011 | Conducted (TH02-HY) |
| Power Meter | Agilent | E4416A | GB41292344 | N/A | Feb. 18, 2011 | Feb. 17, 2012 | Conducted (TH02-HY) |
| Power Sensor | Agilent | E9327A | US40441548 | N/A | Feb. 18, 2011 | Feb. 17, 2012 | Conducted (TH02-HY) |
| Thermal Chamber | Ten Billion | TTH-D35P | TBN-930701 | N/A | Jul. 30, 2010 | Jul. 29, 2011 | Conducted (TH02-HY) |
| EMI Test Receive | R&S | ESCS 30 | 100356 | 9KHz – 2.75GHz | Aug. 16, 2010 | Aug. 15, 2011 | Conduction (CO05-HY) |
| Two-LISN | R&S | ENV216 | 11-100081 | 9KHz – 30MHz | Dec. 03, 2010 | Dec. 02, 2011 | Conduction (CO05-HY) |
| Two-LISN | R&S | ENV216 | 11-100080 | 9KHz – 30MHz | Dec. 01, 2010 | Nov. 30, 2011 | Conduction (CO05-HY) |
| AC Power Source | APC | APC-1000W | N/A | N/A | N/A | N/A | Conduction (CO05-HY) |



| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Due Date | Remark |
|---------------------------|-------------------|-----------|-------------|----------------------|------------------|---------------|-----------------------|
| Spectrum Analyzer | R&S | FSP40 | 100057 | 9KHz-40GHz | Oct. 25, 2010 | Oct. 24, 2011 | Radiation (03CH06-HY) |
| EMI TEST RECEIVER | R&S | ESCI 7 | 100724 | 9kHz~7GHz | Aug.19, 2010 | Aug.19, 2011 | Radiation (03CH06-HY) |
| Bilog Antenna | SCHAFFNER | CBL6112B | 2885 | 30MHz -2GHz | Oct. 31, 2010 | Oct. 31, 2011 | Radiation (03CH06-HY) |
| Double Ridge Horn Antenna | EMCO | 3117 | 00066583 | 1GHz~18GHz | Aug. 02, 2010 | Aug. 01, 2011 | Radiation (03CH06-HY) |
| Double Ridge Horn Antenna | Training Research | AH-0801 | 95119 | 8GHz~18GHz | Oct. 20, 2010 | Oct. 19, 2011 | Radiation (03CH06-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170251 | 15GHz- 40GHz | Oct. 18, 2010 | Oct. 17, 2011 | Radiation (03CH06-HY) |
| Pre Amplifier | Agilent | 8449B | 3008A01917 | 1GHz- 26.5GHz | Apr. 14, 2011 | Apr. 13, 2012 | Radiation (03CH06-HY) |
| Amplifier | Agilent | 310N | 186713 | 9KHz~1GHz | Apr. 14, 2011 | Apr. 13, 2012 | Radiation (03CH06-HY) |
| Bilog Antenna | SCHAFFNER | CBL6111C | 2726 | 30MHz ~ 1GHz | Oct. 31, 2010 | Oct. 30, 2011 | Radiation (03CH07-HY) |
| Spectrum Analyzer | R&S | FSP30 | 101067 | 9KHz ~ 30GHz | Dec. 03, 2010 | Dec. 02, 2011 | Radiation (03CH07-HY) |
| Double Ridge Horn Antenna | ESCO | 3117 | 00075962 | 1GHz ~ 18GHz | Aug. 19, 2010 | Aug. 18, 2011 | Radiation (03CH07-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170251 | 15GHz- 40GHz | Oct. 18, 2010 | Oct. 17, 2011 | Radiation (03CH07-HY) |
| Pre Amplifier | Agilent | 8449B | 3008A02362 | 1GHz~ 26.5GHz | Dec. 06, 2010 | Dec. 05, 2011 | Radiation (03CH07-HY) |
| Pre Amplifier | COM-POWER | PA-103A | 161241 | 10-1000MHz.32dB.GAIN | Mar. 29, 2011 | Mar. 28, 2012 | Radiation (03CH07-HY) |

5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

| Contribution | Uncertainty of X_i | | $u(X_i)$ |
|--|----------------------|--------------------------|----------|
| | dB | Probability Distribution | |
| Receiver Reading | 0.10 | Normal (k=2) | 0.05 |
| Cable Loss | 0.10 | Normal (k=2) | 0.05 |
| AMN Insertion Loss | 2.50 | Rectangular | 0.63 |
| Receiver Specification | 1.50 | Rectangular | 0.43 |
| Site Imperfection | 1.39 | Rectangular | 0.80 |
| Mismatch | +0.34 / -0.35 | U-Shape | 0.24 |
| Combined Standard Uncertainty $U_c(y)$ | 1.13 | | |
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$) | 2.26 | | |

Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

| Contribution | Uncertainty of X_i | | $u(X_i)$ |
|--|----------------------|--------------------------|----------|
| | dB | Probability Distribution | |
| Receiver Reading | 0.41 | Normal (k=2) | 0.21 |
| Antenna Factor Calibration | 0.83 | Normal (k=2) | 0.42 |
| Cable Loss Calibration | 0.25 | Normal (k=2) | 0.13 |
| Pre-Amplifier Gain Calibration | 0.27 | Normal (k=2) | 0.14 |
| RCV/SPA Specification | 2.50 | Rectangular | 0.72 |
| Antenna Factor Interpolation for Frequency | 1.00 | Rectangular | 0.29 |
| Site Imperfection | 1.43 | Rectangular | 0.83 |
| Mismatch | +0.39 / -0.41 | U-Shape | 0.28 |
| Combined Standard Uncertainty $U_c(y)$ | 1.27 | | |
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$) | 2.54 | | |

Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

| Contribution | Uncertainty of X_i | | $u(X_i)$ | C_i | $C_i * u(X_i)$ |
|--|----------------------|--------------------------|----------|-------|----------------|
| | dB | Probability Distribution | | | |
| Receiver Reading | ± 0.10 | Normal ($k=2$) | 0.10 | 1 | 0.10 |
| Antenna Factor Calibration | ± 1.70 | Normal ($k=2$) | 0.85 | 1 | 0.85 |
| Cable Loss Calibration | ± 0.50 | Normal ($k=2$) | 0.25 | 1 | 0.25 |
| Receiver Correction | ± 2.00 | Rectangular | 1.15 | 1 | 1.15 |
| Antenna Factor Directional | ± 1.50 | Rectangular | 0.87 | 1 | 0.87 |
| Site Imperfection | ± 2.80 | Triangular | 1.14 | 1 | 1.14 |
| Mismatch Receiver VSWR $\Gamma_1 = 0.197$ Antenna VSWR $\Gamma_2 = 0.194$ Uncertainty = $20\text{Log}(1-\Gamma_1*\Gamma_2)$ | +0.34 / -0.35 | U-Shape | 0.244 | 1 | 0.244 |
| Combined Standard Uncertainty $U_c(y)$ | 2.36 | | | | |
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$) | 4.72 | | | | |



Appendix A. Photographs of EUT

Please refer to Sporton report number EP141402 as below.