FCC 47 CFR PART 15 SUBPART C AND ANSI C63.4:2003 TEST REPORT

For

PCI-RF module

Model: MB92-EKI6340

Trade Name: ADVANTECH

Issued for

Advantech Co., Ltd.

No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District, Taipei 114, Taiwan, R.O.C.

Issued by

Compliance Certification Services Inc. Hsinchu Lab.

NO. 989-1 Wen Shan Rd., Shang Shan Village, Qionglin Shiang Hsinchu County 30741, Taiwan, R.O.C

TEL: +886-3-5921698 FAX: +886-3-5921108

http://www.ccsrf.com E-Mail : service@ccsrf.com

Issued Date: May 07, 2012



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Revision History

| Rev. | Issue Date | Revisions | Effect Page | Revised By |
|------|------------|---------------------------------------|--------------|-------------|
| 00 | 04/19/2012 | Initial Issue | All Page 150 | Winnie Chen |
| 01 | 05/07/2012 | Revised Maximum Permissible Exposure. | Page 144 | Winnie Chen |
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KI6340 Report No.: T120315033-RP1

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1. TEST REPORT CERTIFICATION

Applicant : Advantech Co., Ltd.

Address : No.1, Alley 20, Lane 26, Rueiguang Road, Neihu District,

Taipei 114, Taiwan, R.O.C.

Equipment Under Test: PCI-RF module **Model**: MB92-EKI6340 **Trade Name**: ADVANTECH

Tested Date : March 15 ~ April 18, 2012

| APPLICABLE STANDARD | | |
|--|-------------|--|
| Standard | Test Result | |
| FCC Part 15 Subpart C AND ANSI C63.4:2003 | PASS | |

WE HEREBY CERTIFY THAT: The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Rex Liao

Deputy Section Manager

Reviewed by:

Sb Lu

Sr. Engineer

2. EUT DESCRIPTION

| Product Name | PCI-RF module | |
|--------------------|--|--|
| Model Number | MB92-EKI6340 | |
| Identify Number | T120315033 | |
| Received Date | March 15, 2012 | |
| | IEEE 802.11a, IEEE 802.11n HT20 : 5745MHz ~ 5825MHz | |
| F | IEEE 802.11n HT40 : 5755MHz ~ 5815MHz | |
| Frequency Range | IEEE 802.11b/g, 802.11n HT20 : 2412MHz∼2462MHz | |
| | IEEE 802.11n HT40 : 2422MHz∼2452MHz | |
| | IEEE 802.11a : 21.60dBm (0.1445W) | |
| | IEEE 802.11n HT20 : 23.66dBm (0.2321W) | |
| | IEEE 802.11n HT40 : 24.24dBm (0.2658W) | |
| Transmit Power | IEEE 802.11b : 18.61dBm (0.0726W) | |
| | IEEE 802.11g : 23.20dBm (0.2089W) | |
| | IEEE 802.11n HT20 : 26.33dBm (0.4291W) | |
| | IEEE 802.11n HT40 : 25.72dBm (0.3733W) | |
| | IEEE 802.11a, 802.11n HT20 : 20MHz | |
| Channel Spacing | IEEE 802.11n HT40 : 60MHz | |
| | IEEE 802.11b/g, 802.11n HT20/HT40 : 5MHz | |
| | IEEE 802.11a, 802.11n HT20 : 5 Channels | |
| Channel Number | IEEE 802.11n HT40 : 2 Channels | |
| | IEEE 802.11b/g, 802.11n HT20 : 11 Channels | |
| | IEEE 802.11n HT40 : 7 Channels | |
| | IEEE 802.11a : 54, 48, 36, 24, 18, 12, 9, 6 Mbps | |
| | IEEE 802.11b : 11, 5.5, 2, 1 Mbps | |
| | IEEE 802.11g : 54, 48, 36, 24, 18, 12, 9, 6 Mbps | |
| Transmit Data Rate | IEEE 802.11n HT20 : 144.444, 130, 117, 115.556, 104, 86.667, 78, 72.2, 65, 58.5, 57.778, 52, 43.333, 39, 28.889, 26, 21.7, 19.5, 14.444, 13, 7.2, 6.5 Mbps | |
| | IEEE 802.11n HT40 : 300, 270, 243, 240, 216, 180, 162, 150, 135, 121.5, 120, 108, 90, 81, 60, 54, 45, 40.5, 30, 27, 15, 13.5 Mbps | |
| | IEEE 802.11a : OFDM (64QAM, 16QAM, QPSK, BPSK) | |
| | IEEE 802.11b : DSSS (CCK, DQPSK, DBPSK) | |
| Type of Modulation | IEEE 802.11g : OFDM (64QAM, 16QAM, QPSK, BPSK) | |
| | IEEE 802.11n HT20/40 : OFDM (64QAM, 16QAM, QPSK, BPSK) | |

| Power Rating | 3.3Vdc |
|--------------|--------------|
| Test Voltage | 120Vac, 60Hz |

Antenna List:

| No. | Model | Туре | 2.4G Gain (dBi) | 5G Gain (dBi) |
|-----|----------------|--------|-----------------|---------------|
| 1 | AN2450-57B01RS | | 2 | 1 |
| 2 | SAA04-050280 | Dipole | 8 | |
| 3 | SAA04-22008A | | 4 | 7 |

Antenna Operation Frequency:

| No. | Model | Туре | 2400~2483.5 (MHz) | 5150~5250 (MHz) | 5725~5850 (MHz) |
|-----|----------------|--------|----------------------|--------------------|--------------------|
| 1 | AN2450-57B01RS | | 0 | 0 | 0 |
| 2 | SAA04-050280 | Dipole | 0 | Χ | X |
| 3 | SAA04-22008A | | 0 | X | 0 |

Remark:

- 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
- 2. For more details, please refer to the User's manual of the EUT.
- 3. This submittal(s) (test report) is intended for FCC ID: M82-EKI6340 filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

3. DESCRIPTION OF TEST MODES

The EUT is an 802.11n MIMO transceiver in PCI-RF module form factor. It has two transmitter chains and two receive chains $(2 \times 2 \text{ configurations})$.

IEEE 802.11a, IEEE 802.11b/g mode, Chain 0 transmitter.

Conducted Emission / Radiated Emission Test (Below 1 GHz)

1. The following test modes were scanned during the preliminary test:

| No. | Pre-Test Mode |
|-----|---------------|
| 1 | TX Mode |

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

| Final Test Mode | | |
|-----------------|--------------------|---------|
| Emission | Radiated Emission | TX Mode |
| LIIIISSIOII | Conducted Emission | TX Mode |

Remark : Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.

Conducted / Radiated Emission Test (Above 1 GHz)

IEEE 802.11a, 802.11n HT20 mode

The EUT had been tested under operating condition.

There are three channels have been tested as following:

| Channel | Frequency (MHz) |
|---------|-----------------|
| Low | 5745 |
| Middle | 5785 |
| High | 5825 |

IEEE 802.11a mode: 6Mbps data rate (worst case) were chosen for full testing.

IEEE 802.11n HT20 mode: 13Mbps data rate (worst case) were chosen for full testing.

IEEE 802.11n HT40 mode

The EUT had been tested under operating condition.

There are two channels have been tested as following:

| Channel | Frequency (MHz) | |
|---------|-----------------|--|
| Low | 5755 | |
| High | 5815 | |

IEEE 802.11n HT40 mode: 27Mbps data rate (worst case) were chosen for full testing.

IEEE 802.11b, 802.11g, 802.11n HT20 mode

The EUT had been tested under operating condition.

There are three channels have been tested as following:

| Channel | Frequency (MHz) |
|---------|-----------------|
| Low | 2412 |
| Middle | 2437 |
| High | 2462 |

IEEE 802.11b mode: 1Mbps data rate (worst case) were chosen for full testing.

IEEE 802.11g mode: 6Mbps data rate (worst case) were chosen for full testing.

IEEE 802.11n HT20 mode: 13Mbps data rate (worst case) were chosen for full testing.

IEEE 802.11n HT40 mode

The EUT had been tested under operating condition.

There are three channels have been tested as following:

| Channel | Frequency (MHz) |
|---------|-----------------|
| Low | 2422 |
| Middle | 2437 |
| High | 2452 |

IEEE 802.11n HT40 mode: 27Mbps data rate (worst case) were chosen for full testing.

4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4: 2003 and FCC CFR 47, 15.207, 15.209 and 15.247.

5. FACILITIES AND ACCREDITATION

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

NO. 989-1 Wen Shan Rd., Shang Shan Village, Qionglin Shiang Hsinchu County 30741, Taiwan, R.O.C

The sites are constructed in conformance with the requirements of ANSI C63.4:2003 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-5.

5.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Taiwan TAF

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada INDUSTRY CANADA

Japan VCCI

Taiwan BSMI

USA FCC MRA

Copies of granted accreditation certificates are available for downloading from our web site, http:///www.ccsrf.com

5.3 MEASUREMENT UNCERTAINTY

The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4-2.

| PARAMETER | UNCERTAINTY |
|---|-------------|
| Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 30 to 1000 MHz | +/- 3.5189 |
| Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 1 to 18GHz | +/- 2.5164 |
| Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 18 to 26 GHz | +/- 2.4967 |
| Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 26 to 40 GHz | +/- 2.7655 |
| Conducted Emission (Mains Terminals), 9kHz to 30MHz | +/- 1.5923 |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Consistent with industry standard (e.g. CISPR 22: 2006, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than U_{CISPR} which is 3.6dB and 5.2dB respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.

6. SETUP OF EQUIPMENT UNDER TEST

SUPPORT EQUIPMENT

| No. | Product | Manufacturer | Model No. | Serial No. | FCC ID |
|-----|-------------|-----------------|--------------------------|------------|--------|
| 1 | Notebook PC | IBM (Lenovo) | ThinkPad T61 7663-AS6 | L3F3864 | DoC |
| 2 | Notebook PC | HP | ProBook 4421s | CNF03242PM | DoC |

SETUP DIAGRAM FOR TESTS

EUT & peripherals setup diagram is shown in appendix setup photos.

EUT OPERATING CONDITION

- 1. Set up all computers like the setup diagram.
- The "Atheros Radio Test <ART> Devilib Revision 0.9 BUILD #27 ART_11n" software was used for testing.

The EUT driver software installed in the host support equipment during testing was Atheros AR5002, ANWI Diagnostic Kernel Drive.

⇒ Tx Antenna: ANT_A, [TX99]

⇒ Tx Data Rate:1Mbps long (IEEE 802.11b mode , chain 0 TX)

6Mbps (IEEE 802.11g mode , chain 0 TX)

13Mbps (IEEE 802.11n HT20 mode ,chain 0/1TX)

27Mbps (IEEE 802.11n HT40 mode, chain 0/1TX)

6Mbps (IEEE 802.11a mode , chain 0 TX)

13Mbps (IEEE 802.11an HT20 mode ,chain 0/1TX)

27Mbps (IEEE 802.11an HT40 mode, chain 0/1TX)

⇒ Power control mode

Output Power: IEEE 802.11b Channel Low (2412MHz) = 13.5

IEEE 802.11b Channel Middle (2437MHz) = 16.5

IEEE 802.11b Channel High (2462MHz) = 12

Output Power: IEEE 802.11g Channel Low (2412MHz) = 10

IEEE 802.11g Channel Middle (2437MHz) = 13.5

IEEE 802.11g Channel High (2462MHz) = 7

Output Power: IEEE 802.11n HT20 Channel Low (2412MHz) = 9.5

IEEE 802.11n HT20 Channel Middle (2437MHz) = 13.5

IEEE 802.11n HT20 Channel High (2462MHz) = 6.5

Output Power: IEEE 802.11n HT40 Channel Low (2422MHz) = 5

IEEE 802.11n HT40 Channel Middle (2437MHz) = 12

IEEE 802.11n HT40 Channel High (2452MHz) = 4

Output Power: IEEE 802.11a Channel Low (5745MHz) = 9

IEEE 802.11a Channel Middle (5785MHz) = 12

IEEE 802.11a Channel High (5825MHz) = 10.5

Output Power: IEEE 802.11an HT20 Channel Low (5745MHz) = 10

IEEE 802.11an HT20 Channel Middle (5785MHz) = 10

IEEE 802.11an HT20 Channel High (5825MHz) = 9.5

Output Power: IEEE 802.11an HT40 Channel Low (5755MHz) = 11

IEEE 802.11an HT40 Channel High (5815MHz) = 10

- 3. All of the functions are under run.
- 4. Start test.

7. FCC PART 15.247 REQUIREMENTS

7.1 6dB BANDWIDTH

LIMITS

§ 15.247(a) (2) For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

TEST EQUIPMENT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|-------------------|--------------|--------|---------------|--------------------|
| Spectrum Analyzer | Agilent | E4407B | US41443108 | 08/09/2012 |

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

The transmitter output was connected to a spectrum analyzer. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 300 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

TEST RESULTS

IEEE 802.11a Mode

| Channel | Channel Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (kHz) | Pass / Fail |
|---------|-------------------------------|------------------------|------------------------|-------------|
| Low | 5745 | 16.50 | 500 | PASS |
| Middle | 5785 | 16.50 | 500 | PASS |
| High | 5825 | 16.50 | 500 | PASS |

IEEE 802.11n HT20 Mode (Two TX)

| Channel | Channel Frequency | | odB Bandwidth (MHz) Minimum Limit | | Pass / Fail | |
|---------|----------------------|---------|------------------------------------|-------|-------------|--|
| | (MHz) | Chain 0 | Chain 1 | (kHz) | | |
| Low | 5745 | 17.83 | 17.92 | 500 | PASS | |
| Middle | 5785 | 17.75 | 17.92 | 500 | PASS | |
| High | 5825 | 17.75 | 17.92 | 500 | PASS | |

IEEE 802.11n HT40 Mode (Two TX)

| Channel | Channel Frequency | 6dB Bai | ndwidth Hz) | Minimum Limit | Pass / Fail | |
|---------|----------------------|---------|----------------|------------------|-------------|--|
| | (MHz) | Chain 0 | Chain 1 | (kHz) | | |
| Low | 5755 | 36.20 | 36.50 | 500 | PASS | |
| High | 5815 | 36.30 | 36.50 | 500 | PASS | |

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IEEE 802.11b Mode

| Channel | Channel Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (kHz) | Pass / Fail |
|---------|-------------------------------|------------------------|------------------------|-------------|
| Low | 2412 | 12.17 | 500 | PASS |
| Middle | 2437 | 12.17 | 500 | PASS |
| High | 2462 | 12.17 | 500 | PASS |

IEEE 802.11q Mode

| Channel | Channel Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (kHz) | Pass / Fail |
|---------|-------------------------------|------------------------|------------------------|-------------|
| Low | 2412 | 16.50 | 500 | PASS |
| Middle | 2437 | 16.50 | 500 | PASS |
| High | 2462 | 16.50 | 500 | PASS |

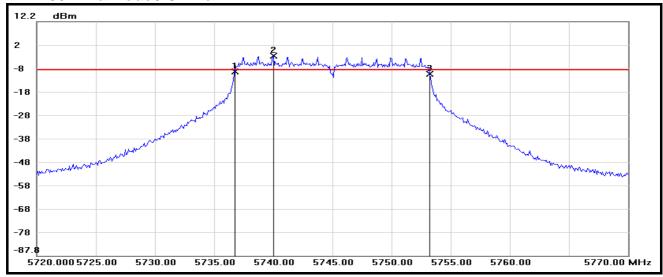
IEEE 802.11n HT20 Mode (Two TX)

| Channel | Channel Frequency | 6dB Bai | ndwidth Hz) | Minimum Limit | Pass / Fail |
|---------|----------------------|---------|----------------|------------------|-------------|
| | (MHz) | Chain 0 | Chain 1 | (kHz) | |
| Low | 2412 | 17.83 | 17.83 | 500 | PASS |
| Middle | 2437 | 17.83 | 17.83 | 500 | PASS |
| High | 2462 | 17.83 | 17.92 | 500 | PASS |

IEEE 802.11n HT40 Mode (Two TX)

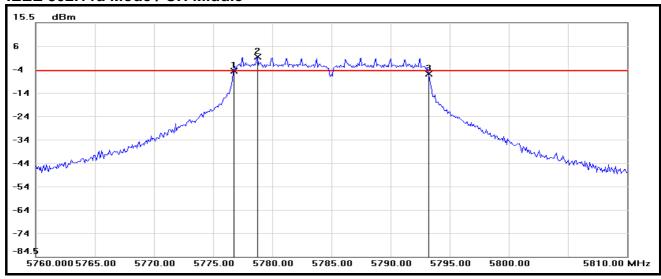
| Channel | Channel Frequency | 6dB Bandwidth (MHz) | | Minimum Limit | Pass / Fail |
|---------|----------------------|------------------------|---------|------------------|-------------|
| | (MHz) | Chain 0 | Chain 1 | (kHz) | |
| Low | 2422 | 36.00 | 36.00 | 500 | PASS |
| Middle | 2437 | 36.17 | 36.42 | 500 | PASS |
| High | 2452 | 36.17 | 36.25 | 500 | PASS |

IEEE 802.11a Mode / CH Low



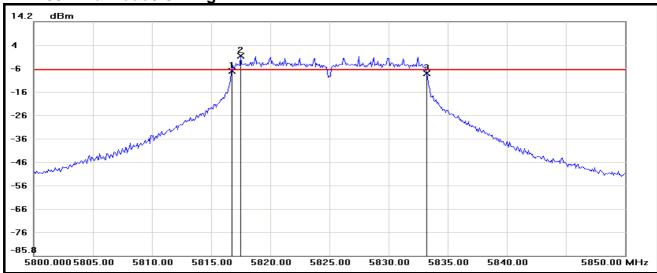
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5736.7500 | -9.14 | -8.48 | -0.66 |
| 2 | 5740.0000 | -2.48 | -8.48 | 6.00 |
| 3 | 5753.2500 | -10.22 | -8.48 | -1.74 |

IEEE 802.11a Mode / CH Middle



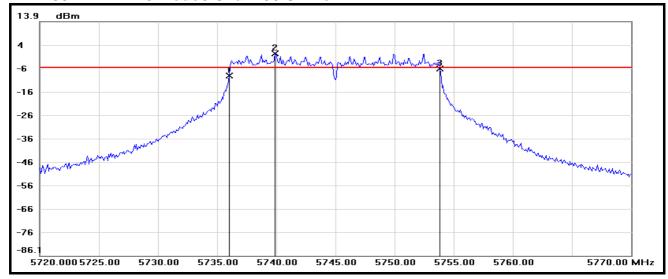
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5776.7500 | -5.10 | -5.00 | -0.10 |
| 2 | 5778.7500 | 1.00 | -5.00 | 6.00 |
| 3 | 5793.2500 | -6.41 | -5.00 | -1.41 |

IEEE 802.11a Mode / CH High



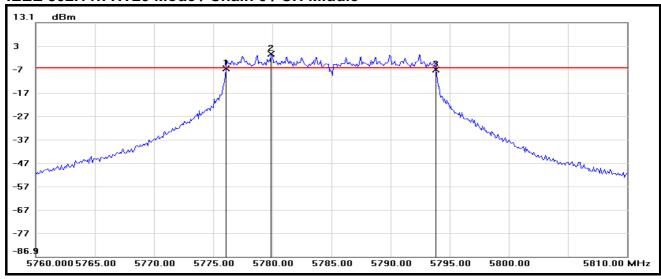
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5816.7500 | -7.01 | -6.41 | -0.60 |
| 2 | 5817.5000 | -0.41 | -6.41 | 6.00 |
| 3 | 5833.2500 | -7.96 | -6.41 | -1.55 |

IEEE 802.11n HT20 Mode / Chain 0 / CH Low



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5736.0000 | -9.20 | -5.61 | -3.59 |
| 2 | 5739.9167 | 0.39 | -5.61 | 6.00 |
| 3 | 5753.8333 | -6.31 | -5.61 | -0.70 |

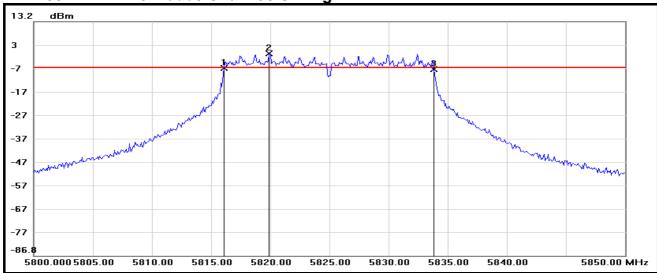
IEEE 802.11n HT20 Mode / Chain 0 / CH Middle



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5776.0833 | -6.61 | -6.34 | -0.27 |
| 2 | 5779.9167 | -0.34 | -6.34 | 6.00 |
| 3 | 5793.8333 | -6.98 | -6.34 | -0.64 |

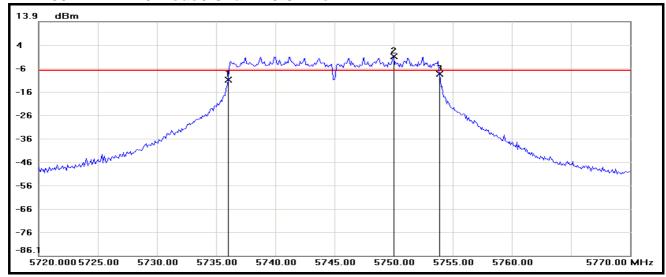
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IEEE 802.11n HT20 Mode / Chain 0 / CH High



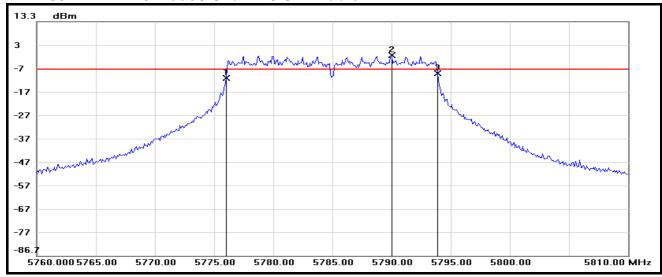
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5816.0833 | -6.63 | -6.56 | -0.07 |
| 2 | 5819.9167 | -0.56 | -6.56 | 6.00 |
| 3 | 5833.8333 | -7.11 | -6.56 | -0.55 |

IEEE 802.11n HT20 Mode / Chain 1 / CH Low



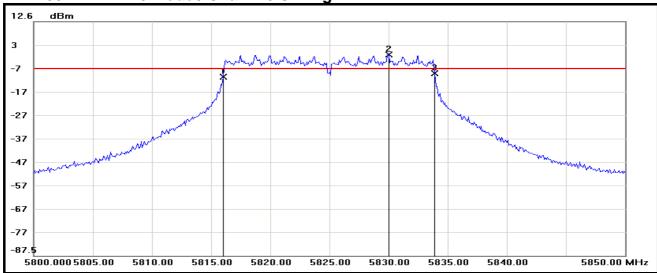
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5736.0000 | -10.94 | -7.05 | -3.89 |
| 2 | 5750.0000 | -1.05 | -7.05 | 6.00 |
| 3 | 5753.9167 | -8.52 | -7.05 | -1.47 |

IEEE 802.11n HT20 Mode / Chain 1 / CH Middle



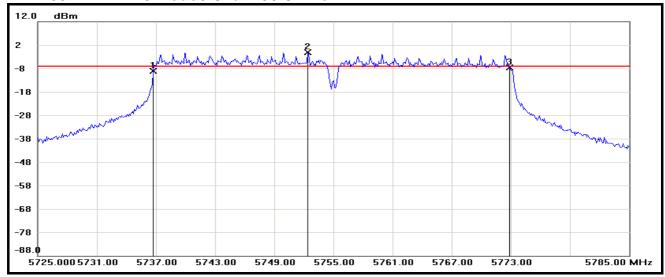
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5776.0000 | -10.96 | -6.97 | -3.99 |
| 2 | 5790.0000 | -0.97 | -6.97 | 6.00 |
| 3 | 5793.9167 | -8.76 | -6.97 | -1.79 |

IEEE 802.11n HT20 Mode / Chain 1 / CH High



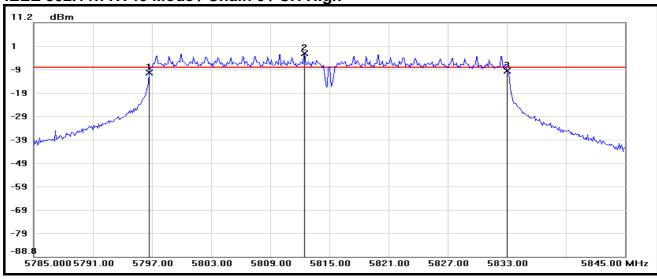
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5816.0000 | -10.97 | -7.45 | -3.52 |
| 2 | 5830.0000 | -1.45 | -7.45 | 6.00 |
| 3 | 5833.9167 | -9.49 | -7.45 | -2.04 |

IEEE 802.11n HT40 Mode / Chain 0 / CH Low



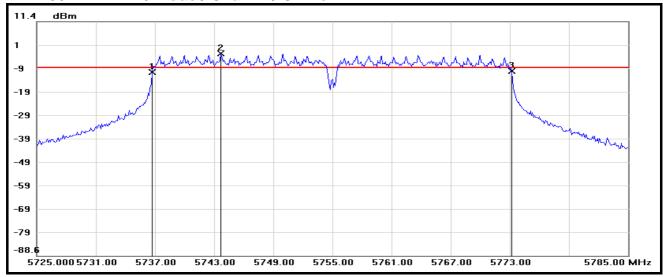
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5736.7000 | -9.16 | -7.19 | -1.97 |
| 2 | 5752.4000 | -1.19 | -7.19 | 6.00 |
| 3 | 5772.9000 | -7.63 | -7.19 | -0.44 |

IEEE 802.11n HT40 Mode / Chain 0 / CH High



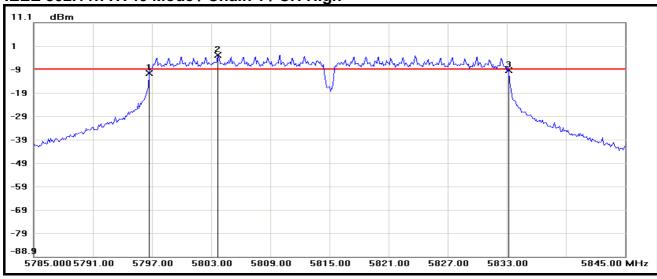
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5796.7000 | -10.13 | -8.06 | -2.07 |
| 2 | 5812.5000 | -2.06 | -8.06 | 6.00 |
| 3 | 5833.0000 | -9.40 | -8.06 | -1.34 |

IEEE 802.11n HT40 Mode / Chain 1 / CH Low



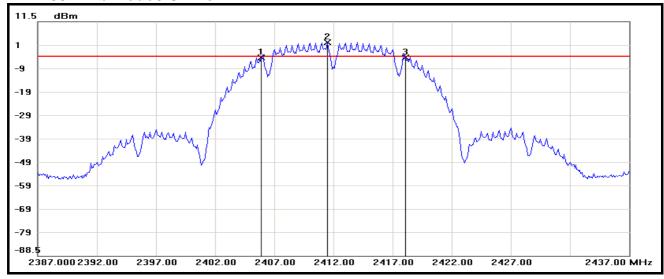
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5736.7000 | -10.22 | -8.27 | -1.95 |
| 2 | 5743.7000 | -2.27 | -8.27 | 6.00 |
| 3 | 5773.2000 | -9.67 | -8.27 | -1.40 |

IEEE 802.11n HT40 Mode / Chain 1 / CH High



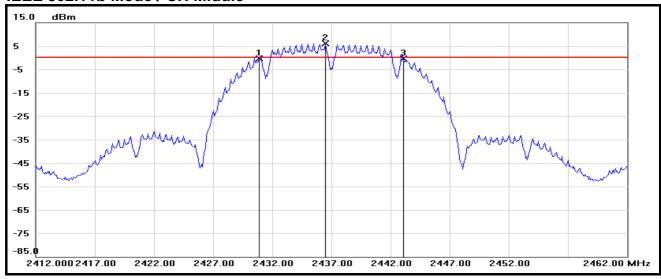
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5796.7000 | -10.44 | -8.71 | -1.73 |
| 2 | 5803.7000 | -2.71 | -8.71 | 6.00 |
| 3 | 5833.2000 | -9.35 | -8.71 | -0.64 |

IEEE 802.11b Mode / CH Low



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2405.9167 | -4.01 | -3.37 | -0.64 |
| 2 | 2411.5000 | 2.63 | -3.37 | 6.00 |
| 3 | 2418.0833 | -3.98 | -3.37 | -0.61 |

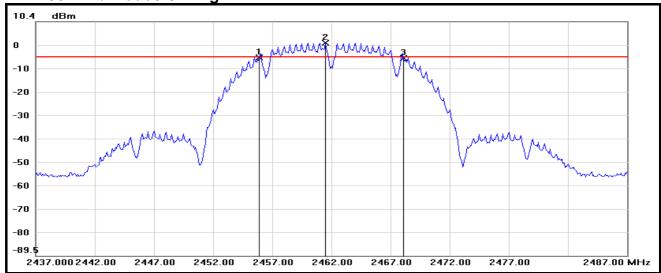
IEEE 802.11b Mode / CH Middle



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2430.9167 | -0.47 | 0.10 | -0.57 |
| 2 | 2436.5000 | 6.10 | 0.10 | 6.00 |
| 3 | 2443.0833 | -0.42 | 0.10 | -0.52 |

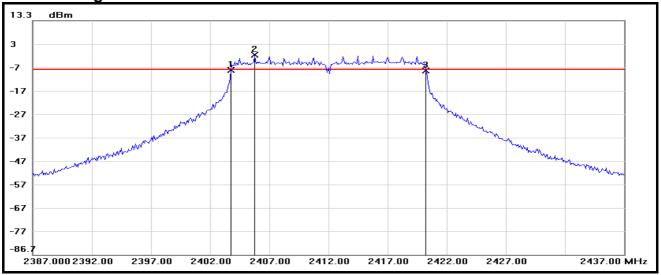
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IEEE 802.11b Mode / CH High



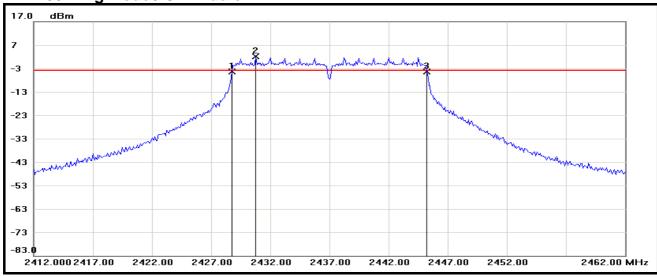
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2455.9167 | -4.92 | -4.67 | -0.25 |
| 2 | 2461.5000 | 1.33 | -4.67 | 6.00 |
| 3 | 2468.0833 | -5.28 | -4.67 | -0.61 |

IEEE 802.11g Mode / CH Low



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2403.7500 | -7.83 | -7.46 | -0.37 |
| 2 | 2405.7500 | -1.46 | -7.46 | 6.00 |
| 3 | 2420.2500 | -8.16 | -7.46 | -0.70 |

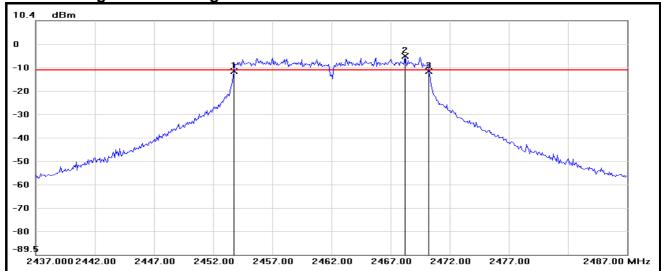
IEEE 802.11g Mode / CH Middle



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2428.7500 | -4.32 | -3.90 | -0.42 |
| 2 | 2430.7500 | 2.10 | -3.90 | 6.00 |
| 3 | 2445.2500 | -4.42 | -3.90 | -0.52 |

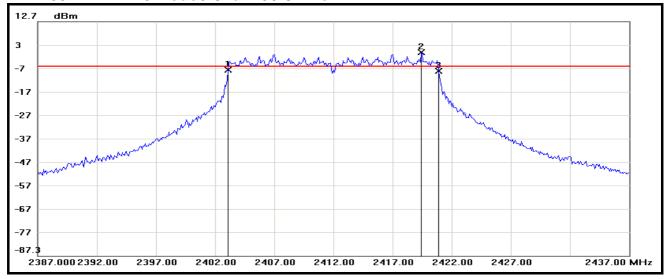
Report No.: T120315033-RP1

IEEE 802.11g Mode / CH High



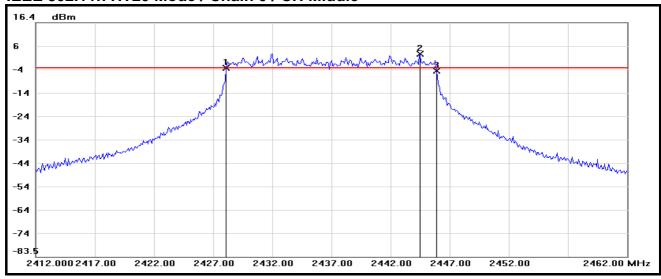
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2453.7500 | -11.15 | -10.79 | -0.36 |
| 2 | 2468.2500 | -4.79 | -10.79 | 6.00 |
| 3 | 2470.2500 | -11.14 | -10.79 | -0.35 |

IEEE 802.11n HT20 Mode / Chain 0 / CH Low



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2403.0833 | -8.07 | -6.45 | -1.62 |
| 2 | 2419.4167 | -0.45 | -6.45 | 6.00 |
| 3 | 2420.9167 | -8.38 | -6.45 | -1.93 |

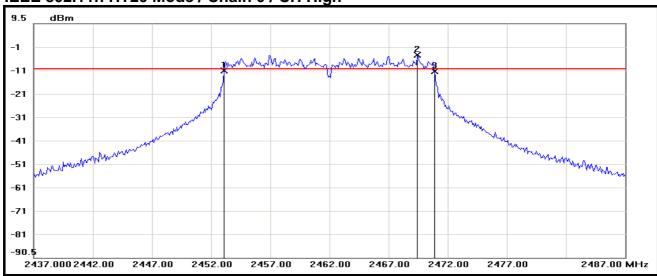
IEEE 802.11n HT20 Mode / Chain 0 / CH Middle



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2428.0833 | -2.96 | -2.83 | -0.13 |
| 2 | 2444.5000 | 3.17 | -2.83 | 6.00 |
| 3 | 2445.9167 | -4.29 | -2.83 | -1.46 |

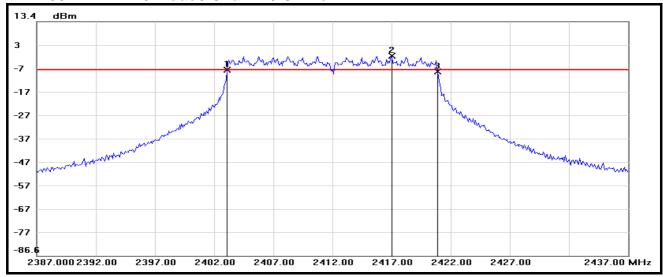
Report No.: T120315033-RP1

IEEE 802.11n HT20 Mode / Chain 0 / CH High



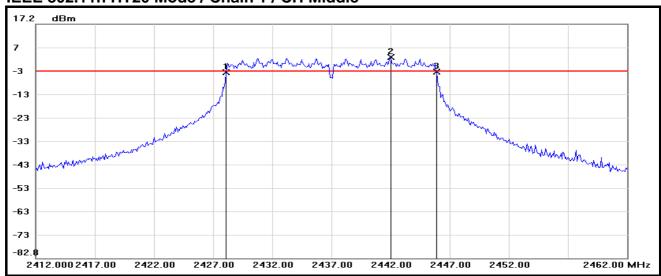
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2453.0833 | -10.73 | -9.87 | -0.86 |
| 2 | 2469.4167 | -3.87 | -9.87 | 6.00 |
| 3 | 2470.9167 | -10.96 | -9.87 | -1.09 |

IEEE 802.11n HT20 Mode / Chain 1 / CH Low



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2403.0833 | -7.19 | -7.18 | -0.01 |
| 2 | 2417.0000 | -1.18 | -7.18 | 6.00 |
| 3 | 2420.9167 | -7.87 | -7.18 | -0.69 |

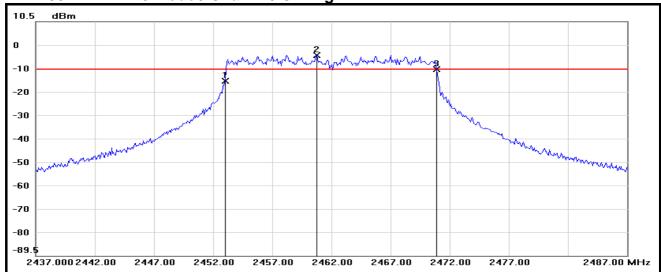
IEEE 802.11n HT20 Mode / Chain 1 / CH Middle



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2428.0833 | -3.41 | -2.86 | -0.55 |
| 2 | 2442.0000 | 3.14 | -2.86 | 6.00 |
| 3 | 2445.9167 | -3.23 | -2.86 | -0.37 |

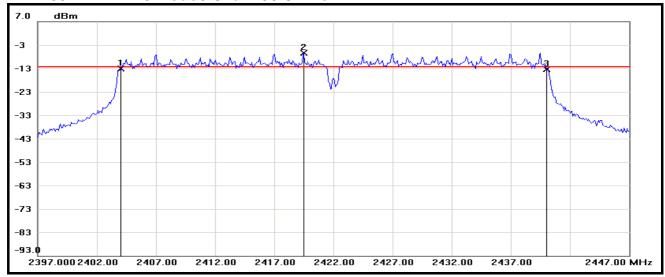
Report No.: T120315033-RP1

IEEE 802.11n HT20 Mode / Chain 1 / CH High



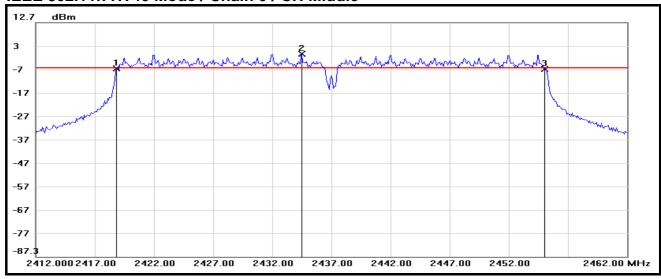
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2453.0000 | -15.03 | -9.79 | -5.24 |
| 2 | 2460.7500 | -3.79 | -9.79 | 6.00 |
| 3 | 2470.9167 | -9.95 | -9.79 | -0.16 |

IEEE 802.11n HT40 Mode / Chain 0 / CH Low



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2404.0000 | -13.14 | -12.31 | -0.83 |
| 2 | 2419.5000 | -6.31 | -12.31 | 6.00 |
| 3 | 2440.0000 | -13.35 | -12.31 | -1.04 |

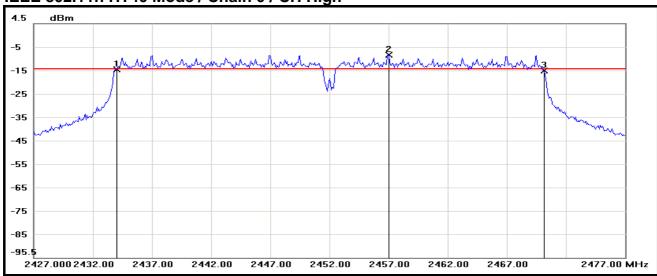
IEEE 802.11n HT40 Mode / Chain 0 / CH Middle



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2418.8333 | -7.01 | -6.55 | -0.46 |
| 2 | 2434.5000 | -0.55 | -6.55 | 6.00 |
| 3 | 2455.0000 | -7.23 | -6.55 | -0.68 |

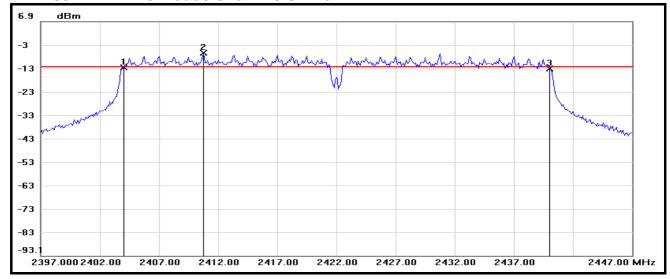
Report No.: T120315033-RP1

IEEE 802.11n HT40 Mode / Chain 0 / CH High



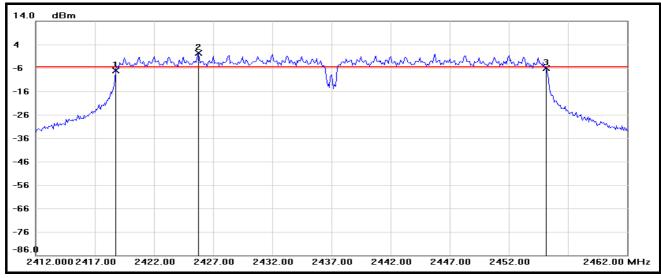
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2434.0000 | -15.20 | -14.88 | -0.32 |
| 2 | 2457.0000 | -8.88 | -14.88 | 6.00 |
| 3 | 2470.1667 | -15.72 | -14.88 | -0.84 |

IEEE 802.11n HT40 Mode / Chain 1 / CH Low



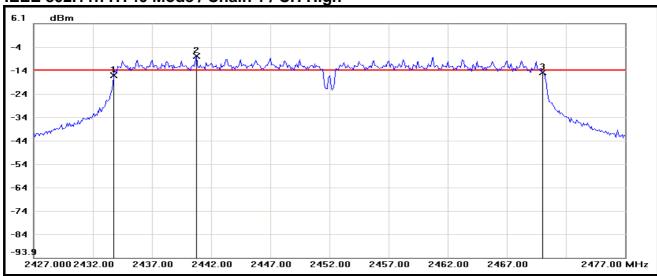
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2404.0000 | -12.74 | -12.46 | -0.28 |
| 2 | 2410.7500 | -6.46 | -12.46 | 6.00 |
| 3 | 2440.0000 | -13.27 | -12.46 | -0.81 |

IEEE 802.11n HT40 Mode / Chain 1 / CH Middle



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2418.7500 | -7.12 | -5.70 | -1.42 |
| 2 | 2425.7500 | 0.30 | -5.70 | 6.00 |
| 3 | 2455.1667 | -6.10 | -5.70 | -0.40 |

IEEE 802.11n HT40 Mode / Chain 1 / CH High



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2433.7500 | -16.04 | -13.81 | -2.23 |
| 2 | 2440.7500 | -7.81 | -13.81 | 6.00 |
| 3 | 2470.0000 | -14.85 | -13.81 | -1.04 |

7.2 MAXIMUM PEAK OUTPUT POWER

LIMITS

§ 15.247(b) The maximum peak output power of the intentional radiator shall not exceed the following:

§ 15.247(b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands : 1 watt.

§ 15.247(b) (4) Except as shown in paragraphs (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST EQUIPMENT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|-------------------|--------------|---------|---------------|--------------------|
| Power Meter | ANRITSU | ML2495A | 1149001 | 12/07/2012 |
| Power Sensor | ANRITSU | MA2411B | 1126148 | 12/14/2012 |

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

The transmitter output is connected to the Power Meter. The Power Meter is set to the peak power detection.

TEST RESULTS

IEEE 802.11a Mode

| Channel | Channel | Channel Peak Power equency | | Peak Pov | wer Limit | Pass / Fail |
|---------|---------|----------------------------|--------|----------|-----------|-------------|
| Chaine | (MHz) | (dBm) | (W) | (dBm) | (W) | rass/raii |
| Low | 5745 | 19.34 | 0.0859 | 29 | 0.7943 | PASS |
| Middle | 5785 | 21.60 | 0.1445 | 29 | 0.7943 | PASS |
| High | 5825 | 20.70 | 0.1175 | 29 | 0.7943 | PASS |

Remark:

- 1. At finial test to get the worst-case emission at 6Mbps.
- 2. The maximum antenna gain is 7dBi which is more than 6dBi, the limit should be 0.7943W.

IEEE 802.11n HT20 Mode (Two TX)

| Channel Channel | | Peak Power (dBm) | | Peak Power Total | | Peak Power Limit | | Pass / Fail |
|-----------------|-------|---------------------|---------|---------------------|--------|---------------------|--------|---------------|
| | (MHz) | Chain 0 | Chain 1 | (dBm) | (W) | (dBm) | (W) | 1 000 / 1 011 |
| Low | 5745 | 20.56 | 20.73 | 23.66 | 0.2321 | 29 | 0.7943 | PASS |
| Middle | 5785 | 20.41 | 20.56 | 23.50 | 0.2237 | 29 | 0.7943 | PASS |
| High | 5825 | 20.10 | 20.15 | 23.14 | 0.2058 | 29 | 0.7943 | PASS |

Remark:

- 1. At finial test to get the worst-case emission at 13Mbps.
- 2. The maximum antenna gain is 7dBi which is more than 6dBi, the limit should be 0.7943W.
- 3. Total peak power = Chain 0 + Chain 1.

IEEE 802.11n HT40 Mode (Two TX)

| Channel Frequency | | / ₄ F | Peak Power (dBm) | | Peak Power Total | | Power mit | Pass / Fail |
|-------------------|---------|------------------|---------------------|-------|---------------------|-------|--------------|-------------|
| | /Ball > | | Chain 1 | (dBm) | (W) | (dBm) | (W) | 1 455 / 1 4 |
| Low | 5755 | 21.43 | 21.03 | 24.24 | 0.2658 | 29 | 0.7943 | PASS |
| High | 5815 | 20.58 | 20.33 | 23.47 | 0.2222 | 29 | 0.7943 | PASS |

- 1. At finial test to get the worst-case emission at 13Mbps.
- 2. The maximum antenna gain is 7dBi which is more than 6dBi, the limit should be 0.7943W.
- 3. Total peak power = Chain 0 + Chain 1.

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IEEE 802.11b Mode

| Channel | Channel Peak Power | | Peak Pov | Pass / Fail | | |
|---------|--------------------|-------|----------|-------------|--------|-----------|
| Chamer | (MHz) | (dBm) | (W) | (dBm) | (W) | rass/raii |
| Low | 2412 | 15.02 | 0.0318 | 28 | 0.6310 | PASS |
| Middle | 2437 | 18.61 | 0.0726 | 28 | 0.6310 | PASS |
| High | 2462 | 13.78 | 0.0239 | 28 | 0.6310 | PASS |

Remark:

- 1. At finial test to get the worst-case emission at 1Mbps.
- 2. The maximum antenna gain is 8dBi which is more than 6dBi, the limit should be 0.6310W.

IEEE 802.11g Mode

| Channel | Channel Frequency | 1 00 | | Peak Pov | Pass / Fail | |
|------------|-------------------|-------|--------|----------|-------------|---------------|
| Gilailliei | (MHz) | (dBm) | (W) | (dBm) | (W) | i ass / i aii |
| Low | 2412 | 19.66 | 0.0925 | 28 | 0.6310 | PASS |
| Middle | 2437 | 23.20 | 0.2089 | 28 | 0.6310 | PASS |
| High | 2462 | 15.89 | 0.0388 | 28 | 0.6310 | PASS |

Remark:

- 1. At finial test to get the worst-case emission at 6Mbps.
- 2. The maximum antenna gain is 8dBi which is more than 6dBi, the limit should be 0.6310W.

IEEE 802.11n HT20 Mode (Two TX)

| Channel Channel | | Peak Power (dBm) | | Peak Power Total | | Peak Power Limit | | Pass / Fail |
|-----------------|-------|---------------------|---------|---------------------|--------|---------------------|--------|-------------|
| | (MHz) | Chain 0 | Chain 1 | (dBm) | (W) | (dBm) | (W) | |
| Low | 2412 | 19.35 | 20.28 | 22.85 | 0.1928 | 28 | 0.6310 | PASS |
| Middle | 2437 | 23.09 | 23.53 | 26.33 | 0.4291 | 28 | 0.6310 | PASS |
| High | 2462 | 15.83 | 17.05 | 19.49 | 0.0890 | 28 | 0.6310 | PASS |

- 1. At finial test to get the worst-case emission at 13Mbps.
- 2. The maximum antenna gain is 8dBi which is more than 6dBi, the limit should be 0.6310W..
- 3. Total peak power = Chain 0 + Chain 1.

IEEE 802.11n HT40 Mode (Two TX)

| Channel Channel | | Peak Power (dBm) | | Peak Power Total | | Peak Power Limit | | Pass / Fail |
|-----------------|-------|---------------------|---------|---------------------|--------|---------------------|--------|---------------|
| Gridinio | (MHz) | Chain 0 | Chain 1 | (dBm) | (W) | (dBm) | (W) | 1 455 / 1 411 |
| Low | 2422 | 15.78 | 15.98 | 18.89 | 0.0775 | 28 | 0.6310 | PASS |
| Middle | 2437 | 22.49 | 22.92 | 25.72 | 0.3733 | 28 | 0.6310 | PASS |
| High | 2452 | 14.43 | 14.92 | 17.69 | 0.0588 | 28 | 0.6310 | PASS |

- 1. At finial test to get the worst-case emission at 13Mbps.
- 2. The maximum antenna gain is 8dBi which is more than 6dBi, the limit should be 0.6310W..
- 3. Total peak power = Chain 0 + Chain 1.

7.3 POWER SPECTRAL DENSITY

LIMITS

§ 15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST EQUIPMENT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|-------------------|--------------|--------|---------------|--------------------|
| Spectrum Analyzer | Agilent | E4407B | US41443108 | 08/09/2012 |

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using RBW = 3KHz and VBW RBW, set sweep time = span / 3KHz.

The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span / 3KHz for a full response of the mixer in the spectrum analyzer.

TEST RESULTS

IEEE 802.11a Mode

| Channel | Channel Frequency (MHz) | Final RF Power Level in 3KHz BW (dBm) | Minimum Limit (dBm) | Pass / Fail |
|---------|-------------------------------|---|------------------------|-------------|
| Low | 5745 | -17.07 | 8 | PASS |
| Middle | 5785 | -13.37 | 8 | PASS |
| High | 5825 | -14.02 | 8 | PASS |

Remark: At finial test to get the worst-case emission at 6Mbps.

IEEE 802.11n HT20 Mode (Two TX)

| Channel | Channel Frequency | Final RF Power Level in 3KHz BW (dBm) | | PSD Total | Minimum Limit | Pass / Fail | |
|---------|----------------------|---------------------------------------|---------|--------------|------------------|-------------|--|
| | (MHz) | Chain 0 | Chain 1 | (dBm) | (kHz) | | |
| Low | 5745 | -14.92 | -15.12 | -12.01 | 8 | PASS | |
| Middle | 5785 | -14.36 | -16.48 | -12.28 | 8 | PASS | |
| High | 5825 | -14.46 | -17.24 | -12.62 | 8 | PASS | |

Remark:

- 1. At finial test to get the worst-case emission at 13Mbps.
- 2. Total power spectral density = Chain 0 + Chain 1.

IEEE 802.11n HT40 Mode (Two TX)

| Channel | Channel Frequency | | | FJD | Minimum Limit | Pass / Fail | |
|---------|----------------------|---------|--------|--------|------------------|-------------|--|
| | (MHz) | Chain 0 | (-ID) | | (kHz) | | |
| Low | 5755 | -15.98 | -17.44 | -13.64 | 8 | PASS | |
| High | 5815 | -17.03 | -17.45 | -14.22 | 8 | PASS | |

- 1. At finial test to get the worst-case emission at 27Mbps.
- 2. Total power spectral density = Chain 0 + Chain 1.

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IEEE 802.11b Mode

| Channel | Channel Frequency (MHz) | Final RF Power Level in 3KHz BW (dBm) | Minimum Limit (dBm) | Pass / Fail |
|---------|-------------------------------|---|------------------------|-------------|
| Low | 2412 | -10.54 | 8 | PASS |
| Middle | 2437 | -6.91 | 8 | PASS |
| High | 2462 | -11.54 | 8 | PASS |

Remark: At finial test to get the worst-case emission at 1Mbps.

IEEE 802.11g Mode

| Channel | Channel Frequency (MHz) | Final RF Power Level in 3KHz BW (dBm) | Minimum Limit (dBm) | Pass / Fail |
|---------|-------------------------------|---|------------------------|-------------|
| Low | 2412 | -14.97 | 8 | PASS |
| Middle | 2437 | -10.93 | 8 | PASS |
| High | 2462 | -16.56 | 8 | PASS |

Remark: At finial test to get the worst-case emission at 6Mbps.

IEEE 802.11n HT20 Mode (Two TX)

| Channel | Channel Frequency | Final RF Por 3KHz BV | | PSD Total | Minimum Limit | Pass / Fail |
|---------|----------------------|-------------------------|---------|--------------|------------------|---------------|
| Oname | (MHz) | Chain 0 | Chain 1 | (dBm) | (dBm) | 1 433 / 1 411 |
| Low | 2412 | -15.96 | -14.67 | -12.26 | 8 | PASS |
| Middle | 2437 | -10.95 | -10.52 | -7.72 | 8 | PASS |
| High | 2462 | -17.93 | -15.71 | -13.67 | 8 | PASS |

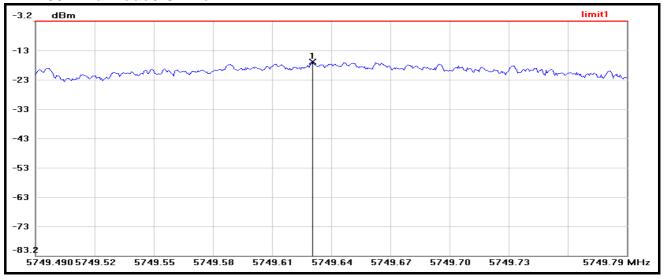
- 1. At finial test to get the worst-case emission at 13Mbps.
- 2. Total power spectral density = Chain 0 + Chain 1.

IEEE 802.11n HT40 Mode (Two TX)

| Channel | Channel Frequency | 3KHZ BW (dBm) | | PSD Total | Minimum Limit | Pass / Fail | |
|---------|----------------------|---------------|---------|--------------|------------------|---------------|--|
| Onamici | (MHz) | Chain 0 | Chain 1 | (dBm) | (dBm) | 1 433 / 1 411 | |
| Low | 2422 | -21.30 | -21.27 | -18.27 | 8 | PASS | |
| Middle | 2437 | -15.75 | -14.63 | -12.14 | 8 | PASS | |
| High | 2452 | -23.61 | -22.68 | -20.11 | 8 | PASS | |

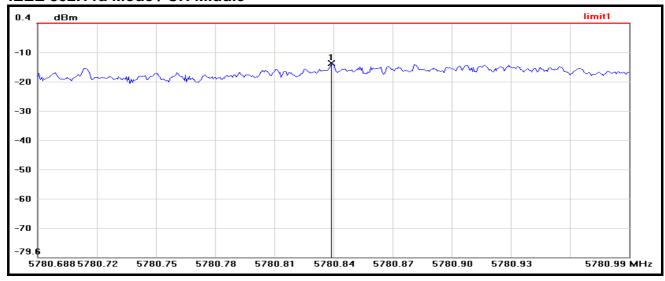
- 1. At finial test to get the worst-case emission at 27Mbps.
- 2. Total power spectral density = Chain 0 + Chain 1.

IEEE 802.11a Mode / CH Low



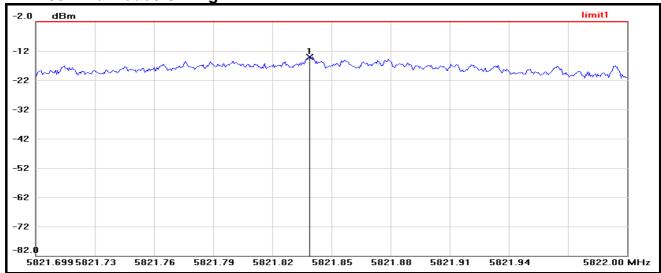
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5749.6305 | -17.07 | 8 | -25.07 |

IEEE 802.11a Mode / CH Middle



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5780.8365 | -13.37 | 8.00 | -21.37 |

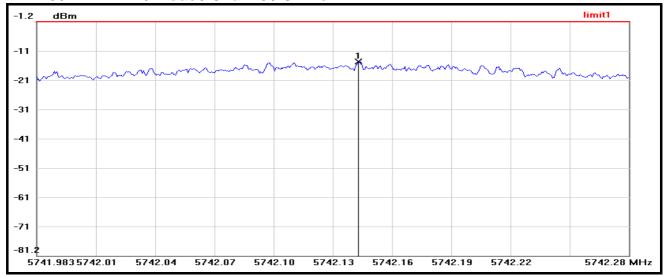
IEEE 802.11a Mode / CH High



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5821.8385 | -14.02 | 8.00 | -22.02 |

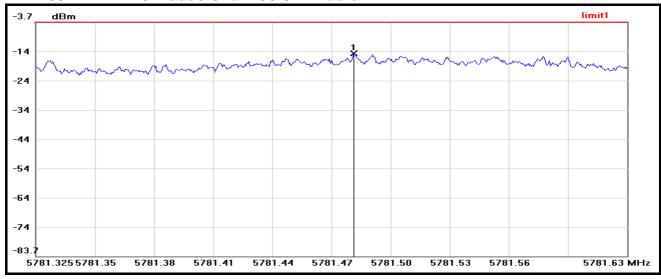
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IEEE 802.11n HT20 Mode / Chain 0 / CH Low



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5742.1455 | -14.92 | 8 | -22.92 |

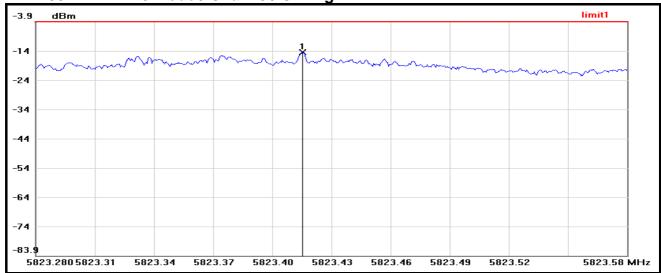
IEEE 802.11n HT20 Mode / Chain 0 / CH Middle



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5781.4865 | -14.36 | 8.00 | -22.36 |

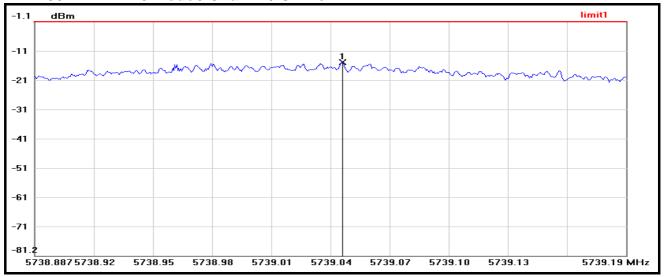
Report No.: T120315033-RP1

IEEE 802.11n HT20 Mode / Chain 0 / CH High



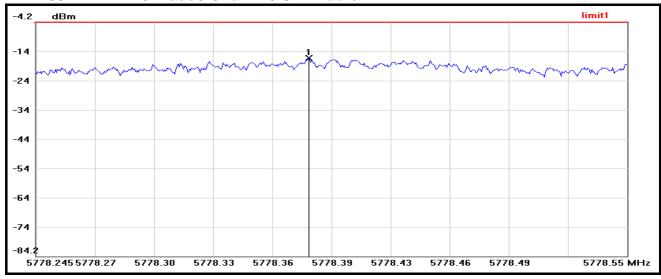
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5823.4155 | -14.46 | 8.00 | -22.46 |

IEEE 802.11n HT20 Mode / Chain 1 / CH Low



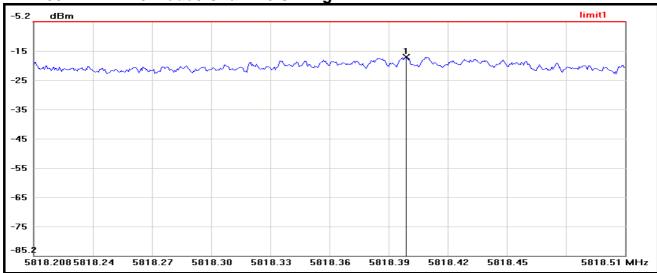
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5739.0435 | -15.12 | 8 | -23.12 |

IEEE 802.11n HT20 Mode / Chain 1 / CH Middle



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5778.3835 | -16.48 | 8.00 | -24.48 |

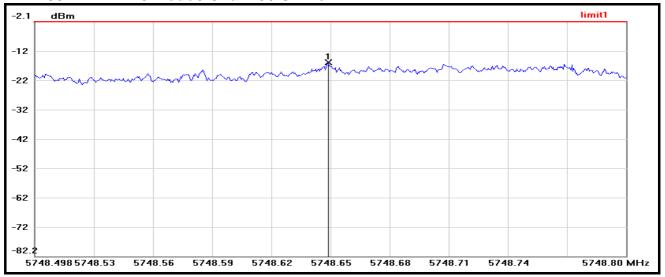
IEEE 802.11n HT20 Mode / Chain 1 / CH High



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5818.3965 | -17.24 | 8.00 | -25.24 |

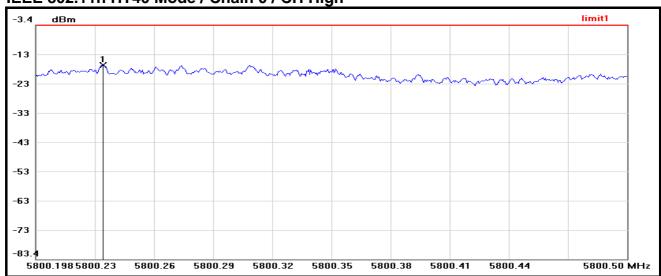
Report No.: T120315033-RP1

IEEE 802.11n HT40 Mode / Chain 0 / CH Low



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5748.6465 | -15.98 | 8 | -23.98 |

IEEE 802.11n HT40 Mode / Chain 0 / CH High



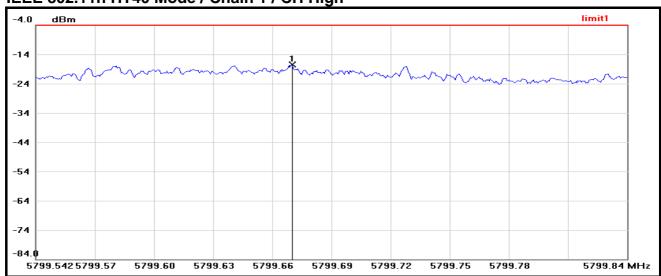
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5800.2320 | -17.03 | 8.00 | -25.03 |

IEEE 802.11n HT40 Mode / Chain 1 / CH Low



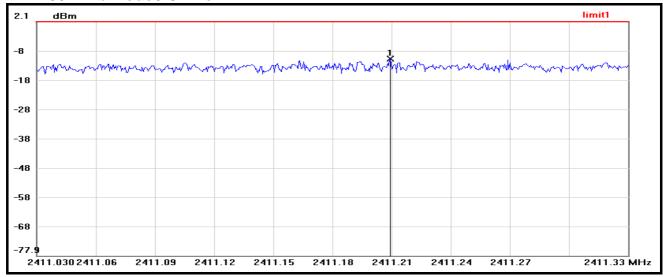
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5749.4085 | -17.44 | 8 | -25.44 |

IEEE 802.11n HT40 Mode / Chain 1 / CH High



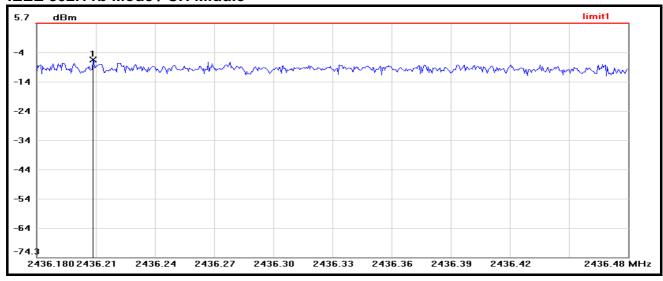
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5799.6725 | -17.45 | 8.00 | -25.45 |

IEEE 802.11b Mode / CH Low



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2411.2095 | -10.54 | 8.00 | -18.54 |

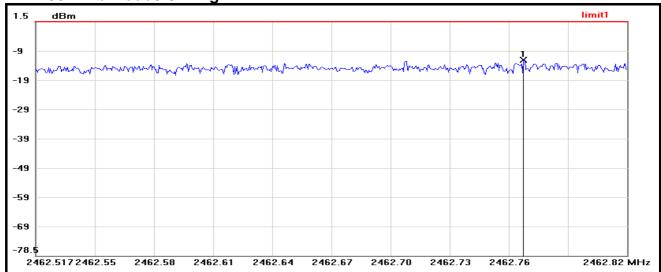
IEEE 802.11b Mode / CH Middle



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2436.2085 | -6.91 | 8.00 | -14.91 |

Report No.: T120315033-RP1

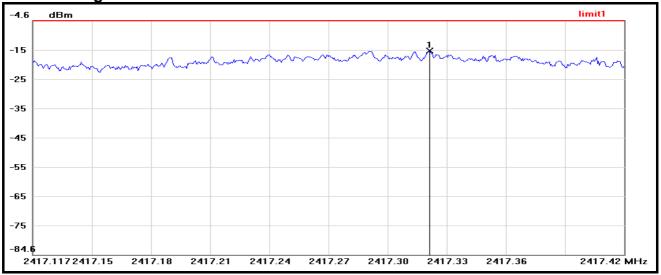
IEEE 802.11b Mode / CH High



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2462.7645 | -11.54 | 8.00 | -19.54 |

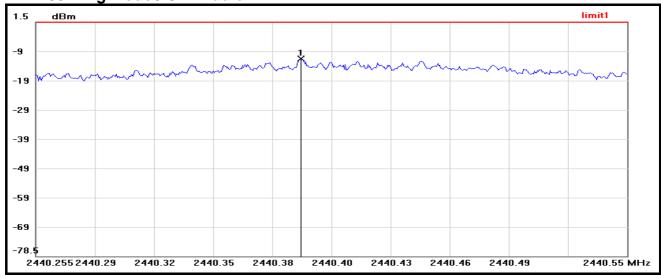
Report No.: T120315033-RP1

IEEE 802.11g Mode / CH Low



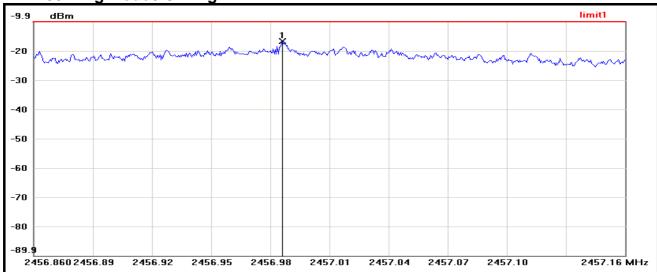
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2417.3190 | -14.97 | 8.00 | -22.97 |

IEEE 802.11g Mode / CH Middle



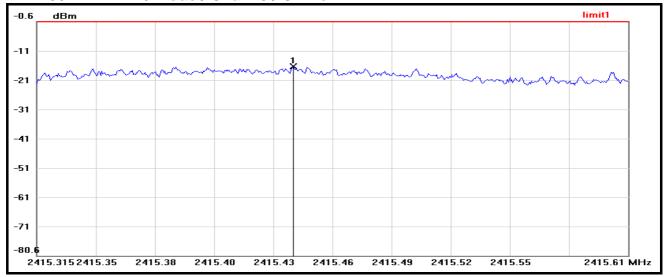
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2440.3895 | -10.93 | 8.00 | -18.93 |

IEEE 802.11g Mode / CH High



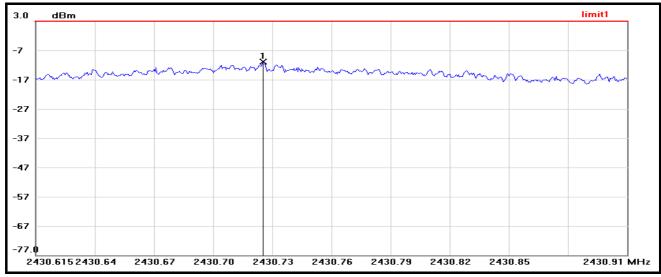
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2456.9860 | -16.56 | 8.00 | -24.56 |

IEEE 802.11n HT20 Mode / Chain 0 / CH Low



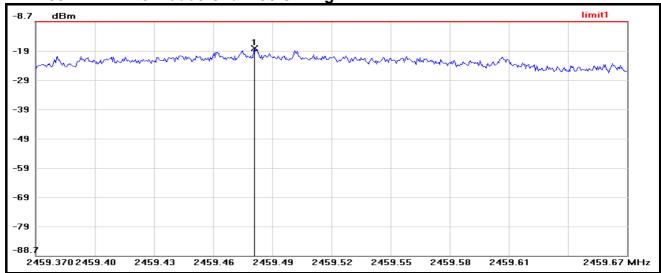
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2415.4450 | -15.96 | 8.00 | -23.96 |

IEEE 802.11n HT20 Mode / Chain 0 / CH Middle



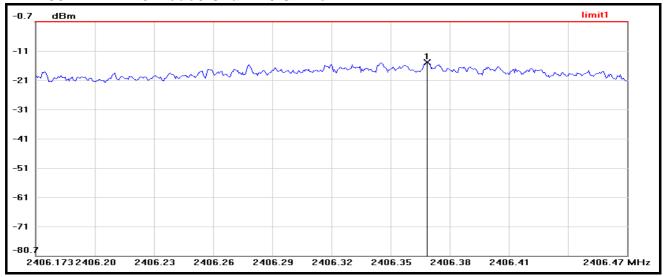
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2430.7305 | -10.95 | 8.00 | -18.95 |

IEEE 802.11n HT20 Mode / Chain 0 / CH High



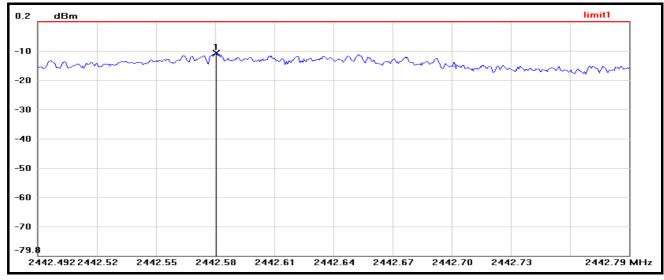
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2459.4810 | -17.93 | 8.00 | -25.93 |

IEEE 802.11n HT20 Mode / Chain 1 / CH Low



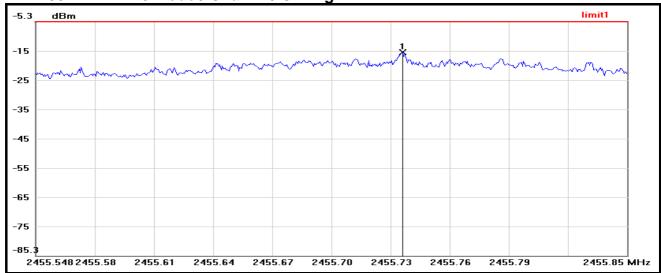
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2406.3710 | -14.67 | 8.00 | -22.67 |

IEEE 802.11n HT20 Mode / Chain 1 / CH Middle



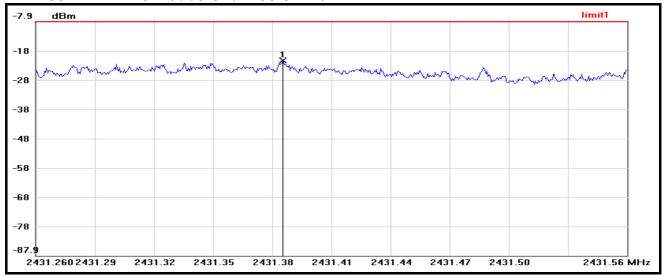
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2442.5830 | -10.52 | 8.00 | -18.52 |

IEEE 802.11n HT20 Mode / Chain 1 / CH High



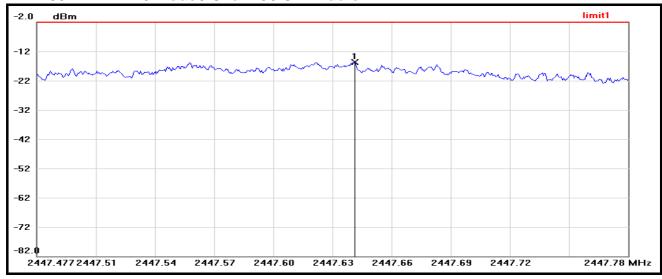
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2455.7335 | -15.71 | 8.00 | -23.71 |

IEEE 802.11n HT40 Mode / Chain 0 / CH Low



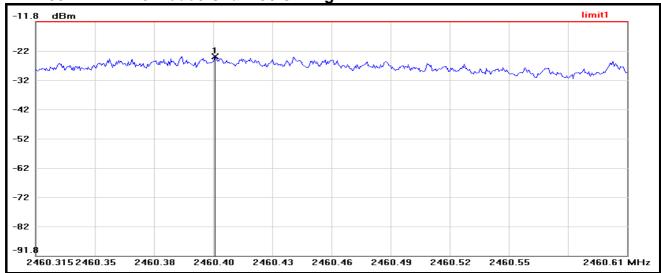
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2431.3855 | -21.30 | 8.00 | -29.30 |

IEEE 802.11n HT40 Mode / Chain 0 / CH Middle



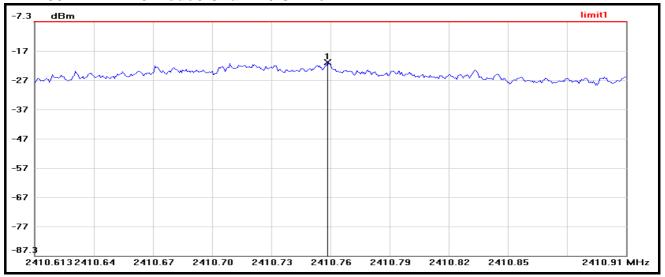
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2447.6390 | -15.75 | 8.00 | -23.75 |

IEEE 802.11n HT40 Mode / Chain 0 / CH High



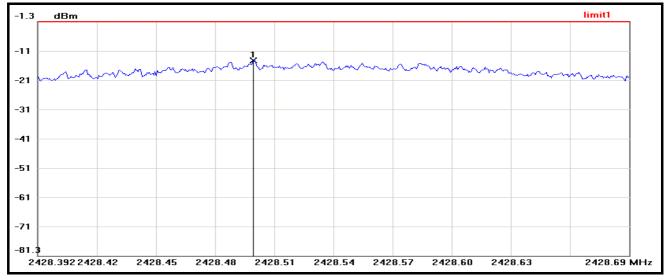
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2460.4060 | -23.61 | 8.00 | -31.61 |

IEEE 802.11n HT40 Mode / Chain 1 / CH Low



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2410.7610 | -21.27 | 8.00 | -29.27 |

IEEE 802.11n HT40 Mode / Chain 1 / CH Middle



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2428.5020 | -14.63 | 8.00 | -22.63 |

IEEE 802.11n HT40 Mode / Chain 1 / CH High



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2440.0850 | -22.68 | 8.00 | -30.68 |

7.4 CONDUCTED SPURIOUS EMISSION

LIMITS

§ 15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST EQUIPMENT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|-------------------|--------------|--------|---------------|--------------------|
| Spectrum Analyzer | Agilent | E4446A | MY43360132 | 06/19/2012 |

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP



TEST PROCEDURE

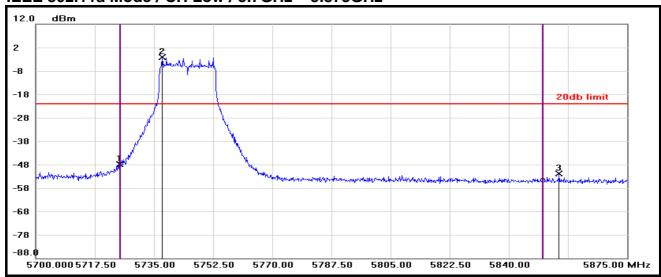
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 5.0 GHz band.

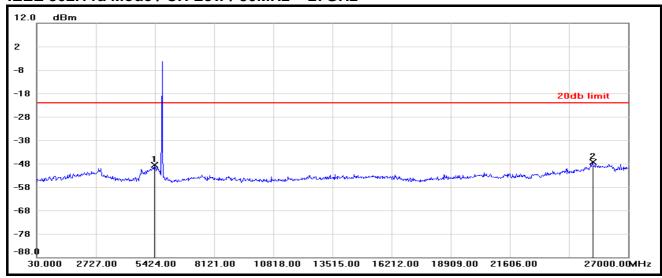
TEST RESULTS

IEEE 802.11a Mode / CH Low / 5.7GHz ~ 5.875GHz



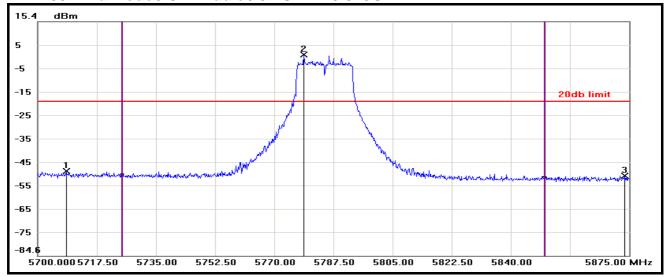
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5724.8500 | -47.93 | -22.24 | -25.69 |
| 2 | 5737.4500 | -2.24 | -22.24 | 20.00 |
| 3 | 5854.8750 | -51.95 | -22.24 | -29.71 |

IEEE 802.11a Mode / CH Low / 30MHz ~ 27GHz



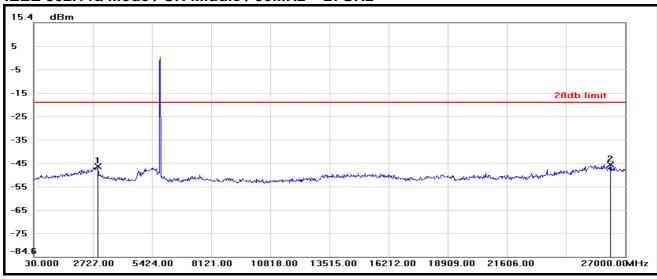
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5397.0300 | -48.68 | -22.24 | -26.44 |
| 2 | 25381.8000 | -47.39 | -22.24 | -25.15 |

IEEE 802.11a Mode / CH Middle / 5.7GHz ~ 5.875GHz



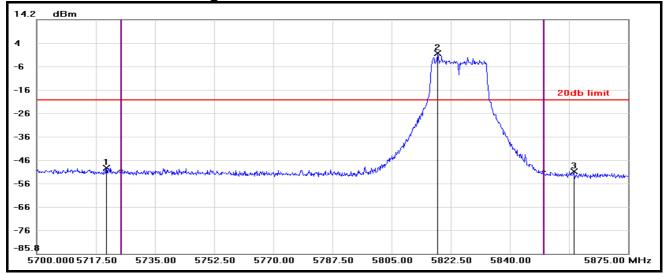
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5708.4000 | -48.57 | -18.76 | -29.81 |
| 2 | 5778.7500 | 1.24 | -18.76 | 20.00 |
| 3 | 5873.7750 | -50.49 | -18.76 | -31.73 |

IEEE 802.11a Mode / CH Middle / 30MHz ~ 27GHz



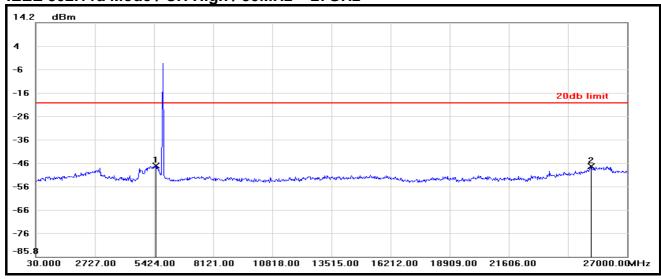
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2969.7300 | -45.90 | -18.76 | -27.14 |
| 2 | 26325.7500 | -45.15 | -18.76 | -26.39 |

IEEE 802.11a Mode / CH High / 5.7GHz ~ 5.875GHz



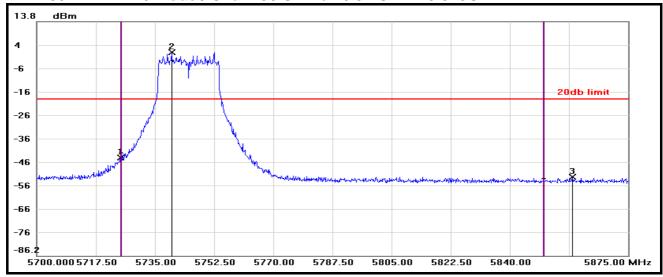
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5720.6500 | -49.26 | -20.16 | -29.10 |
| 2 | 5818.6500 | -0.16 | -20.16 | 20.00 |
| 3 | 5858.9000 | -50.73 | -20.16 | -30.57 |

IEEE 802.11a Mode / CH High / 30MHz ~ 27GHz



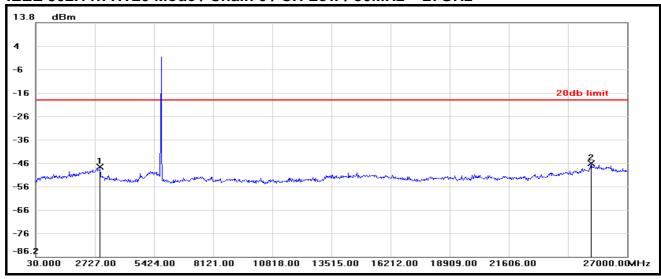
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5504.9100 | -47.00 | -20.16 | -26.84 |
| 2 | 25354.8300 | -47.22 | -20.16 | -27.06 |

IEEE 802.11n HT20 Mode / Chain 0 / CH Low / 5.7GHz ~ 5.875GHz



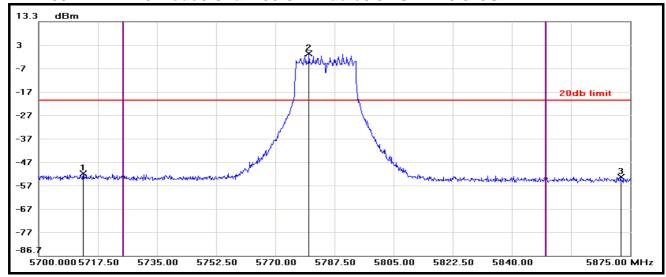
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5724.8500 | -44.29 | -19.35 | -24.94 |
| 2 | 5739.9000 | 0.65 | -19.35 | 20.00 |
| 3 | 5858.5500 | -52.56 | -19.35 | -33.21 |

IEEE 802.11n HT20 Mode / Chain 0 / CH Low / 30MHz ~ 27GHz



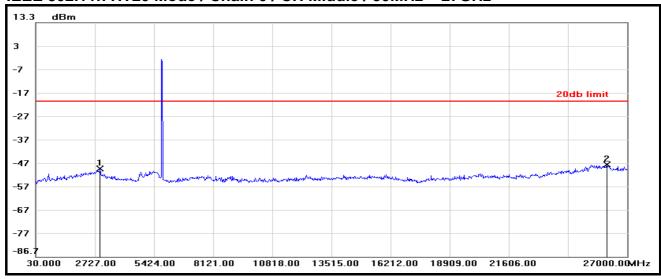
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2969.7300 | -47.94 | -19.35 | -28.59 |
| 2 | 25354.8300 | -46.37 | -19.35 | -27.02 |

IEEE 802.11n HT20 Mode / Chain 0 / CH Middle / 5.7GHz ~ 5.875GHz



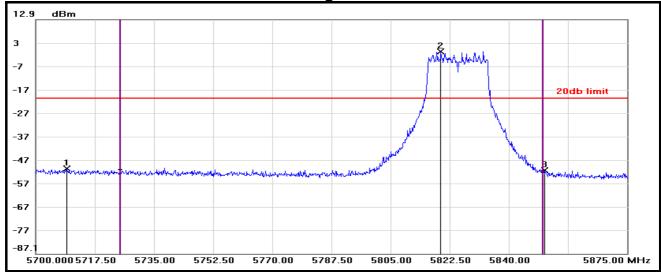
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5713.1250 | -51.56 | -20.18 | -31.38 |
| 2 | 5779.9750 | -0.18 | -20.18 | 20.00 |
| 3 | 5872.2000 | -52.96 | -20.18 | -32.78 |

IEEE 802.11n HT20 Mode / Chain 0 / CH Middle / 30MHz ~ 27GHz



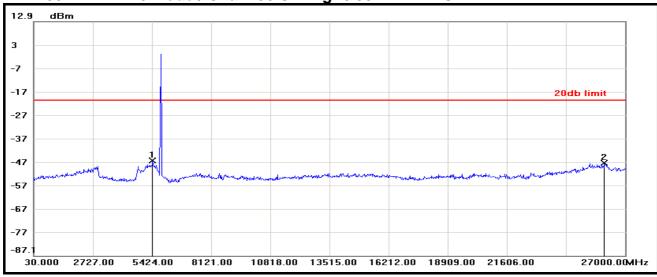
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2969.7300 | -48.96 | -20.18 | -28.78 |
| 2 | 26083.0200 | -47.37 | -20.18 | -27.19 |

IEEE 802.11n HT20 Mode / Chain 0 / CH High / 5.7GHz ~ 5.875GHz



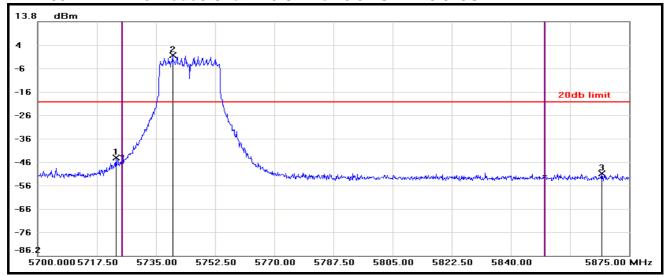
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5709.1000 | -50.83 | -20.60 | -30.23 |
| 2 | 5819.8750 | -0.60 | -20.60 | 20.00 |
| 3 | 5850.5000 | -51.44 | -20.60 | -30.84 |

IEEE 802.11n HT20 Mode / Chain 0 / CH High / 30MHz ~ 27GHz



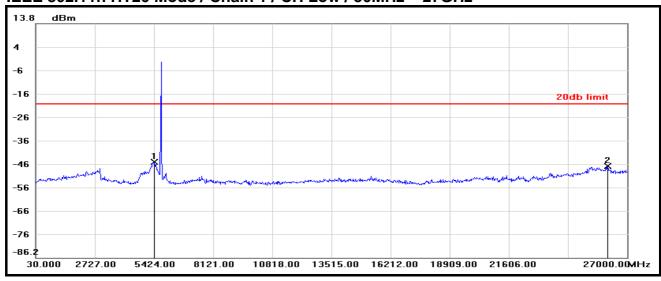
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5450.9700 | -46.57 | -20.60 | -25.97 |
| 2 | 26056.0500 | -47.57 | -20.60 | -26.97 |

IEEE 802.11n HT20 Mode / Chain 1 / CH Low / 5.7GHz ~ 5.875GHz



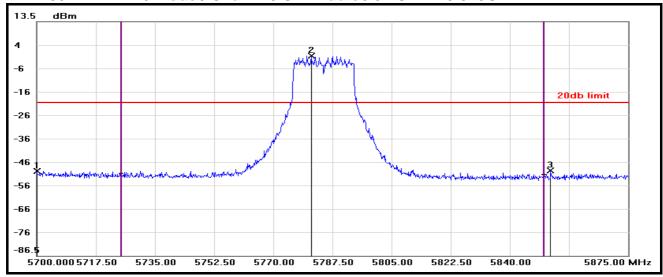
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5723.1000 | -44.47 | -20.71 | -23.76 |
| 2 | 5739.9000 | -0.71 | -20.71 | 20.00 |
| 3 | 5866.9500 | -50.99 | -20.71 | -30.28 |

IEEE 802.11n HT20 Mode / Chain 1 / CH Low / 30MHz ~ 27GHz



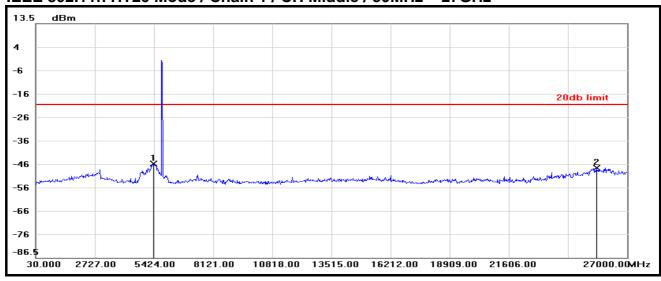
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5450.9700 | -45.41 | -20.71 | -24.70 |
| 2 | 26109.9900 | -47.16 | -20.71 | -26.45 |

IEEE 802.11n HT20 Mode / Chain 1 / CH Middle / 5.7GHz ~ 5.875GHz



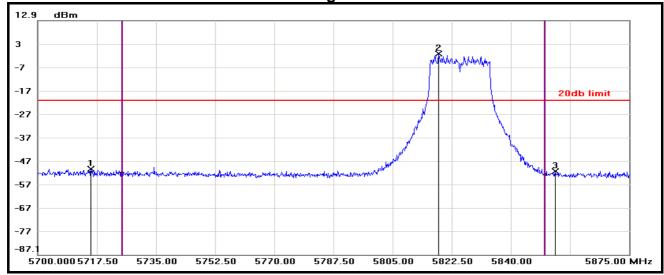
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5700.0000 | -50.38 | -21.08 | -29.30 |
| 2 | 5781.2000 | -1.08 | -21.08 | 20.00 |
| 3 | 5852.0750 | -50.11 | -21.08 | -29.03 |

IEEE 802.11n HT20 Mode / Chain 1 / CH Middle / 30MHz ~ 27GHz



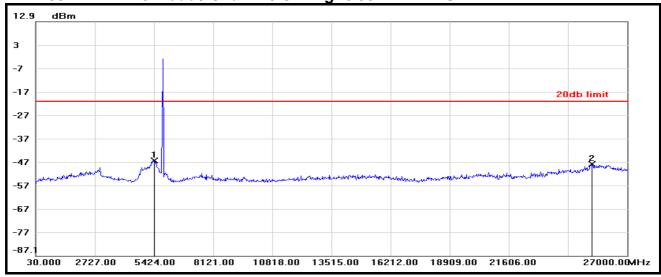
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5397.0300 | -46.25 | -21.08 | -25.17 |
| 2 | 25597.5600 | -48.16 | -21.08 | -27.08 |

IEEE 802.11n HT20 Mode / Chain 1 / CH High / 5.7GHz ~ 5.875GHz



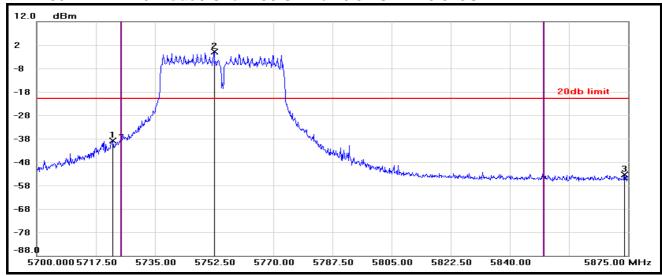
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5715.7500 | -50.51 | -21.28 | -29.23 |
| 2 | 5818.6500 | -1.28 | -21.28 | 20.00 |
| 3 | 5853.1250 | -51.58 | -21.28 | -30.30 |

IEEE 802.11n HT20 Mode / Chain 1 / CH High / 30MHz ~ 27GHz



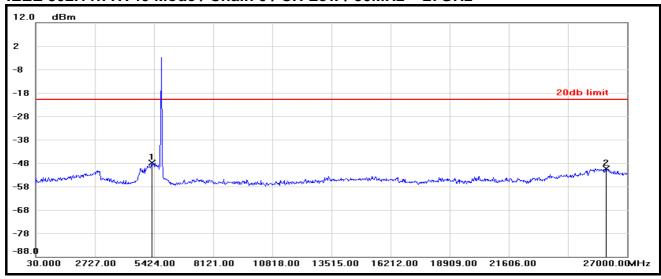
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5450.9700 | -46.42 | -21.28 | -25.14 |
| 2 | 25408.7700 | -48.01 | -21.28 | -26.73 |

IEEE 802.11n HT40 Mode / Chain 0 / CH Low / 5.7GHz ~ 5.875GHz



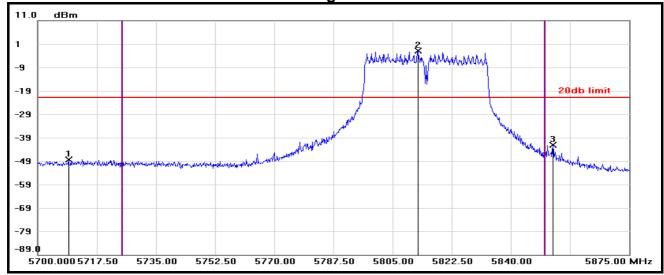
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5722.5750 | -38.88 | -20.93 | -17.95 |
| 2 | 5752.5000 | -0.93 | -20.93 | 20.00 |
| 3 | 5873.9500 | -53.51 | -20.93 | -32.58 |

IEEE 802.11n HT40 Mode / Chain 0 / CH Low / 30MHz ~ 27GHz



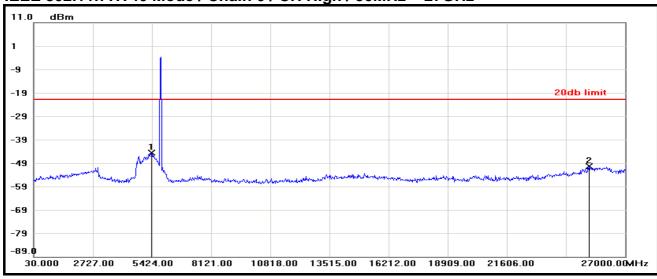
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5316.1200 | -47.94 | -20.93 | -27.01 |
| 2 | 26029.0800 | -50.39 | -20.93 | -29.46 |

IEEE 802.11n HT40 Mode / Chain 0 / CH High / 5.7GHz ~ 5.875GHz



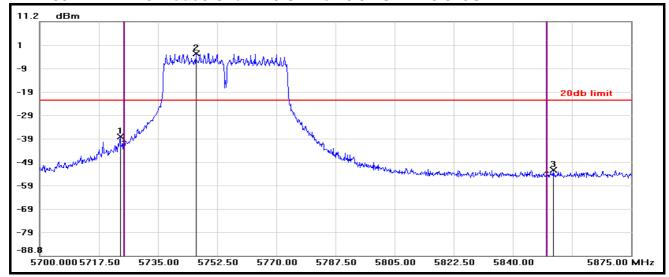
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5709.1000 | -48.29 | -21.91 | -26.38 |
| 2 | 5812.5250 | -1.91 | -21.91 | 20.00 |
| 3 | 5852.4250 | -42.13 | -21.91 | -20.22 |

IEEE 802.11n HT40 Mode / Chain 0 / CH High / 30MHz ~ 27GHz



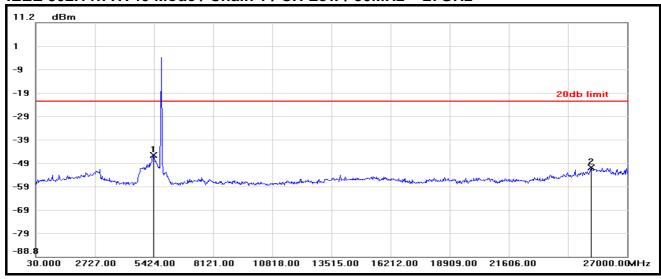
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5397.0300 | -44.66 | -21.91 | -22.75 |
| 2 | 25354.8300 | -50.25 | -21.91 | -28.34 |

IEEE 802.11n HT40 Mode / Chain 1 / CH Low / 5.7GHz ~ 5.875GHz



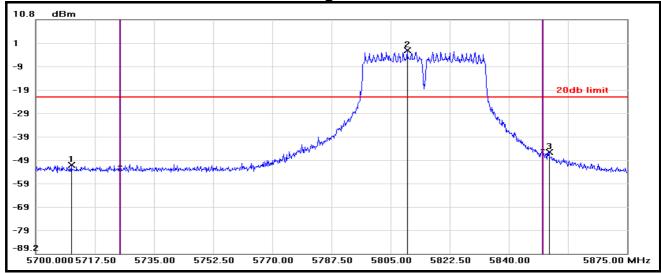
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5723.8000 | -38.04 | -22.43 | -15.61 |
| 2 | 5746.2000 | -2.43 | -22.43 | 20.00 |
| 3 | 5852.0750 | -52.06 | -22.43 | -29.63 |

IEEE 802.11n HT40 Mode / Chain 1 / CH Low / 30MHz ~ 27GHz



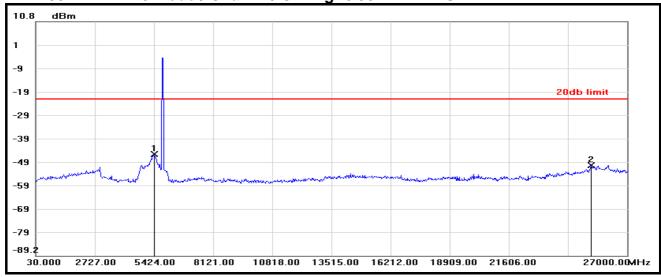
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5397.0300 | -45.36 | -22.43 | -22.93 |
| 2 | 25354.8300 | -50.73 | -22.43 | -28.30 |

IEEE 802.11n HT40 Mode / Chain 1 / CH High / 5.7GHz ~ 5.875GHz



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5710.5000 | -51.24 | -22.46 | -28.78 |
| 2 | 5809.9000 | -2.46 | -22.46 | 20.00 |
| 3 | 5851.9000 | -45.95 | -22.46 | -23.49 |

IEEE 802.11n HT40 Mode / Chain 1 / CH High / 30MHz ~ 27GHz



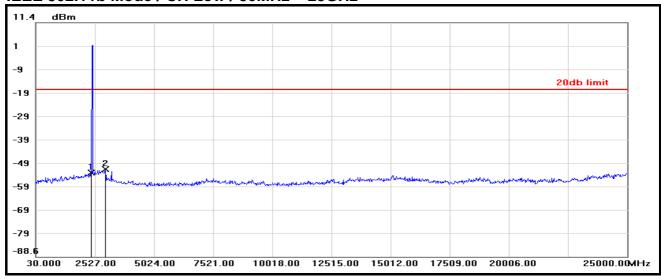
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 5424.0000 | -45.95 | -22.46 | -23.49 |
| 2 | 25354.8300 | -50.54 | -22.46 | -28.08 |

IEEE 802.11b Mode / CH Low / 2.38GHz ~ 2.5GHz



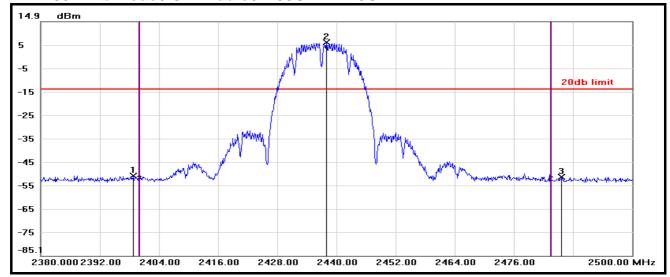
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2397.0400 | -34.01 | -17.22 | -16.79 |
| 2 | 2413.4800 | 2.78 | -17.22 | 20.00 |
| 3 | 2494.9600 | -54.44 | -17.22 | -37.22 |

IEEE 802.11b Mode / CH Low / 30MHz ~ 25GHz



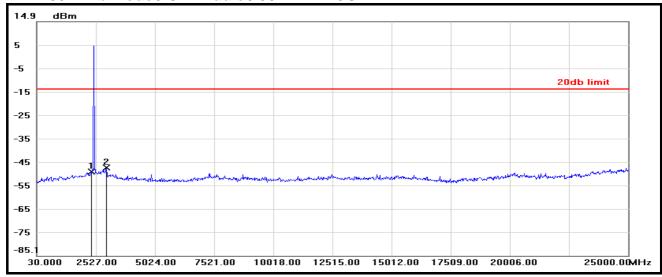
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2377.1800 | -52.62 | -17.22 | -35.40 |
| 2 | 2976.4600 | -51.11 | -17.22 | -33.89 |

IEEE 802.11b Mode / CH Middle / 2.38GHz ~ 2.5GHz



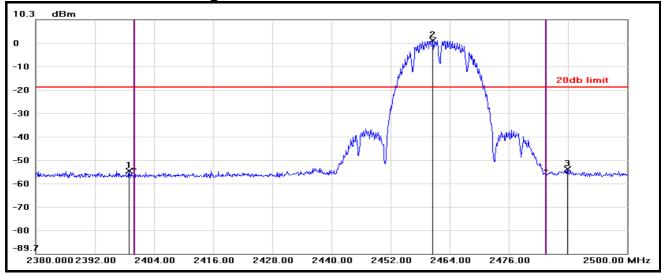
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2398.8400 | -50.84 | -13.86 | -36.98 |
| 2 | 2437.9600 | 6.14 | -13.86 | 20.00 |
| 3 | 2485.7200 | -51.43 | -13.86 | -37.57 |

IEEE 802.11b Mode / CH Middle / 30MHz ~ 25GHz



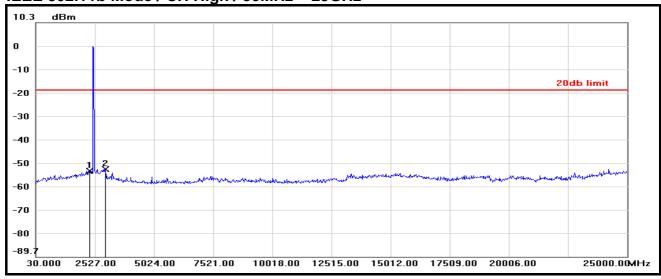
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2352.2100 | -49.12 | -13.86 | -35.26 |
| 2 | 2976.4600 | -47.43 | -13.86 | -33.57 |

IEEE 802.11b Mode / CH High / 2.38GHz ~ 2.5GHz



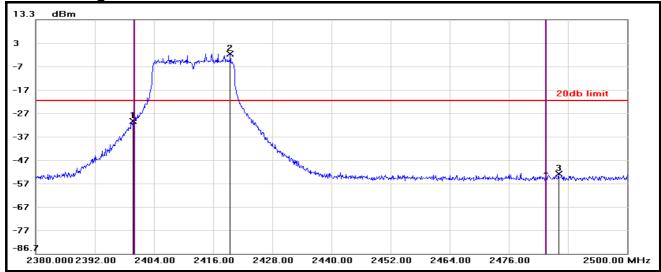
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2398.9600 | -54.34 | -18.45 | -35.89 |
| 2 | 2460.5200 | 1.55 | -18.45 | 20.00 |
| 3 | 2487.8800 | -53.55 | -18.45 | -35.10 |

IEEE 802.11b Mode / CH High / 30MHz ~ 25GHz



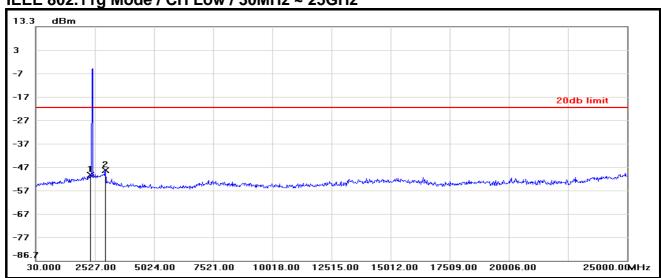
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2302.2700 | -52.96 | -18.45 | -34.51 |
| 2 | 2976.4600 | -52.16 | -18.45 | -33.71 |

IEEE 802.11g Mode / CH Low / 2.38GHz ~ 2.5GHz



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2399.8000 | -29.99 | -21.23 | -8.76 |
| 2 | 2419.4800 | -1.23 | -21.23 | 20.00 |
| 3 | 2486.0800 | -52.60 | -21.23 | -31.37 |

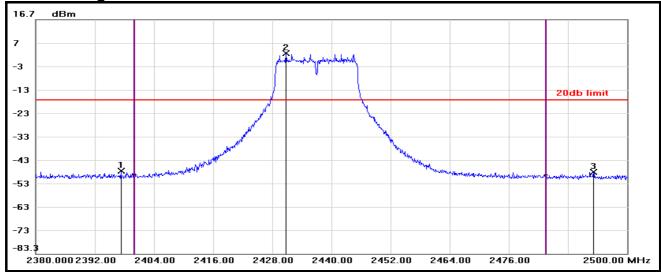
IEEE 802.11g Mode / CH Low / 30MHz ~ 25GHz



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2327.2400 | -50.14 | -21.23 | -28.91 |
| 2 | 2976.4600 | -47.96 | -21.23 | -26.73 |

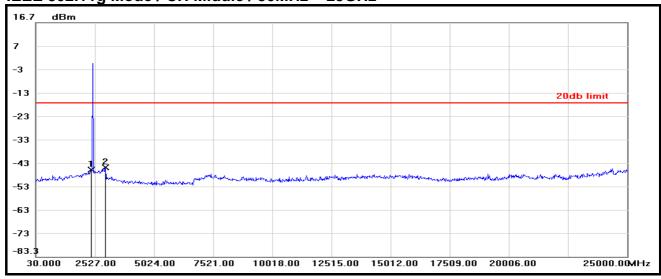
182-EKI6340 Report No.: T120315033-RP1

IEEE 802.11g Mode / CH Middle / 2.38GHz ~ 2.5GHz



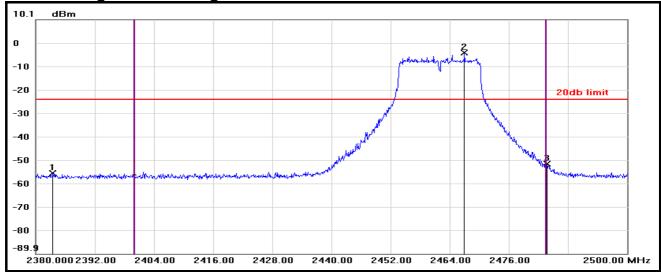
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2397.2800 | -47.89 | -17.73 | -30.16 |
| 2 | 2430.7600 | 2.27 | -17.73 | 20.00 |
| 3 | 2493.1600 | -48.37 | -17.73 | -30.64 |

IEEE 802.11g Mode / CH Middle / 30MHz ~ 25GHz



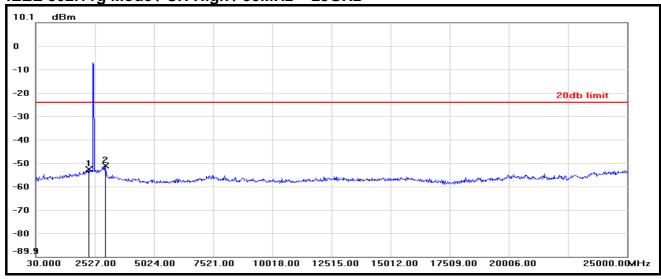
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2377.1800 | -46.11 | -17.73 | -28.38 |
| 2 | 2976.4600 | -45.19 | -17.73 | -27.46 |

IEEE 802.11g Mode / CH High / 2.38GHz ~ 2.5GHz



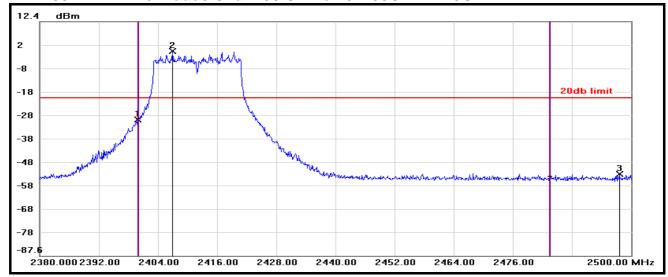
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2383.4800 | -55.60 | -24.17 | -31.43 |
| 2 | 2467.0000 | -4.17 | -24.17 | 20.00 |
| 3 | 2483.8000 | -51.49 | -24.17 | -27.32 |

IEEE 802.11g Mode / CH High / 30MHz ~ 25GHz



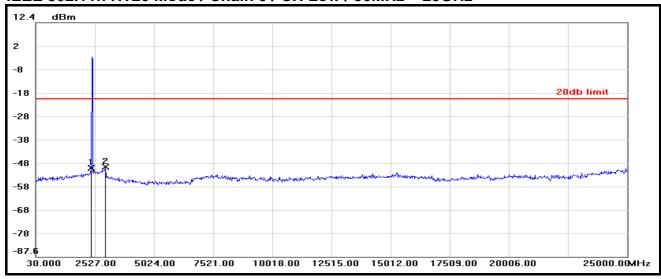
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2277.3000 | -52.44 | -24.17 | -28.27 |
| 2 | 2976.4600 | -51.05 | -24.17 | -26.88 |

IEEE 802.11n HT20 Mode / Chain 0 / CH Low / 2.38GHz ~ 2.5GHz



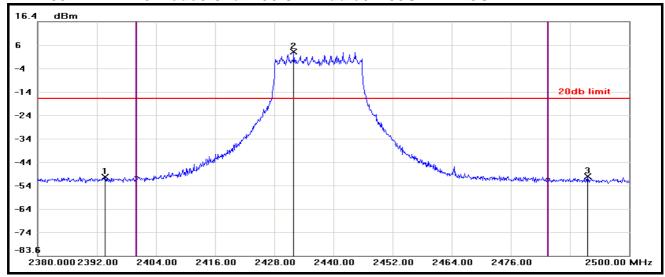
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2399.9200 | -29.45 | -20.23 | -9.22 |
| 2 | 2407.0000 | -0.23 | -20.23 | 20.00 |
| 3 | 2497.6000 | -52.62 | -20.23 | -32.39 |

IEEE 802.11n HT20 Mode / Chain 0 / CH Low / 30MHz ~ 25GHz



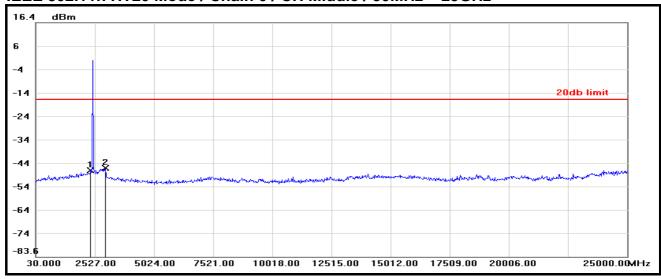
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2377.1800 | -49.66 | -20.23 | -29.43 |
| 2 | 2976.4600 | -49.30 | -20.23 | -29.07 |

IEEE 802.11n HT20 Mode / Chain 0 / CH Middle / 2.38GHz ~ 2.5GHz



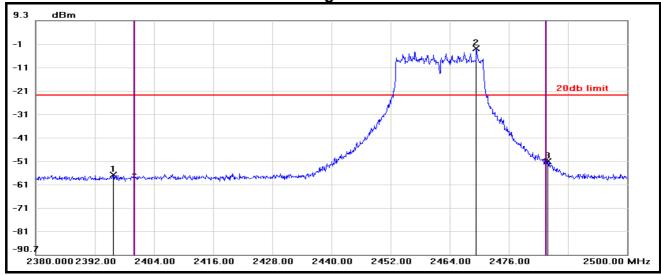
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2393.6800 | -49.94 | -16.54 | -33.40 |
| 2 | 2431.9600 | 3.46 | -16.54 | 20.00 |
| 3 | 2491.6000 | -49.59 | -16.54 | -33.05 |

IEEE 802.11n HT20 Mode / Chain 0 / CH Middle / 30MHz ~ 25GHz



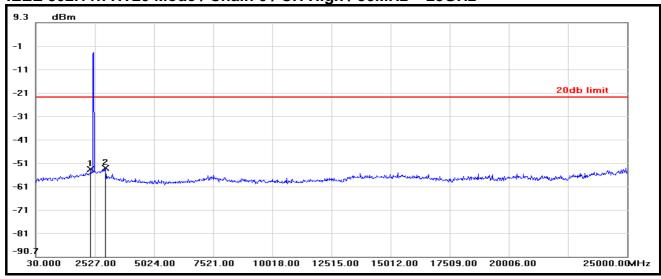
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2352.2100 | -46.80 | -16.54 | -30.26 |
| 2 | 2976.4600 | -45.73 | -16.54 | -29.19 |

IEEE 802.11n HT20 Mode / Chain 0 / CH High / 2.38GHz ~ 2.5GHz



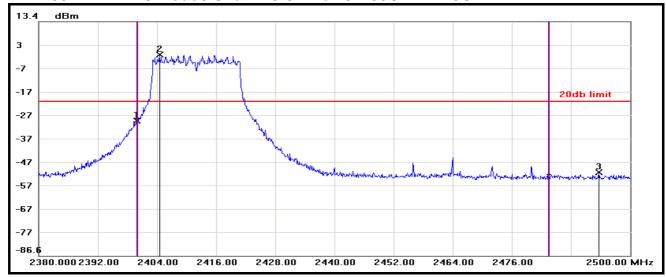
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2395.7200 | -56.67 | -22.51 | -34.16 |
| 2 | 2469.4000 | -2.51 | -22.51 | 20.00 |
| 3 | 2483.9200 | -50.69 | -22.51 | -28.18 |

IEEE 802.11n HT20 Mode / Chain 0 / CH High / 30MHz ~ 25GHz



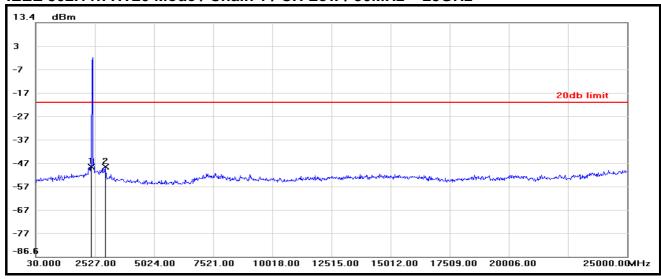
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2352.2100 | -53.36 | -22.51 | -30.85 |
| 2 | 2976.4600 | -52.79 | -22.51 | -30.28 |

IEEE 802.11n HT20 Mode / Chain 1 / CH Low / 2.38GHz ~ 2.5GHz



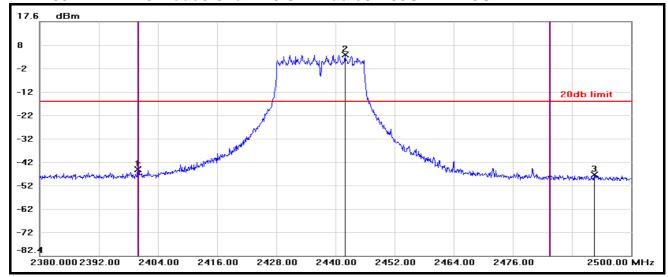
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2399.9200 | -28.91 | -20.72 | -8.19 |
| 2 | 2404.4800 | -0.72 | -20.72 | 20.00 |
| 3 | 2493.6400 | -50.84 | -20.72 | -30.12 |

IEEE 802.11n HT20 Mode / Chain 1 / CH Low / 30MHz ~ 25GHz



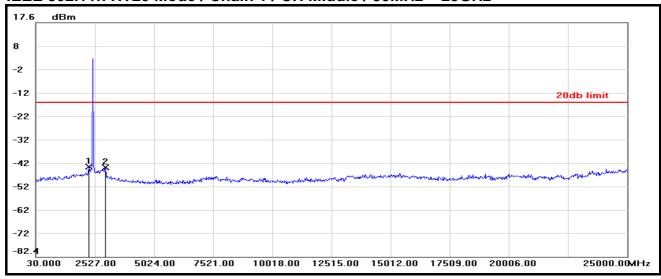
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2377.1800 | -48.20 | -20.72 | -27.48 |
| 2 | 2976.4600 | -48.12 | -20.72 | -27.40 |

IEEE 802.11n HT20 Mode / Chain 1 / CH Middle / 2.38GHz ~ 2.5GHz



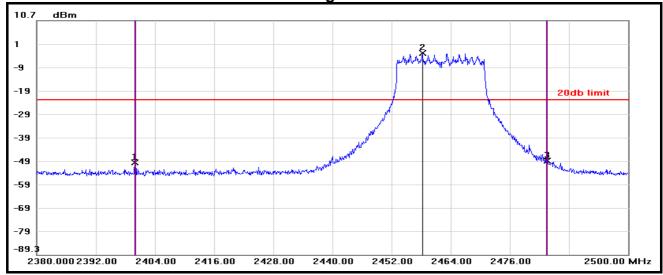
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2399.9200 | -45.48 | -16.48 | -29.00 |
| 2 | 2441.9200 | 3.52 | -16.48 | 20.00 |
| 3 | 2492.5600 | -47.84 | -16.48 | -31.36 |

IEEE 802.11n HT20 Mode / Chain 1 / CH Middle / 30MHz ~ 25GHz



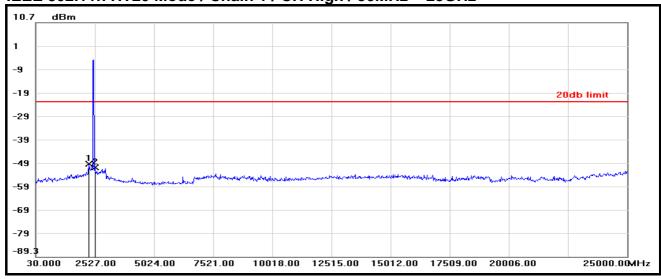
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2277.3000 | -44.07 | -16.48 | -27.59 |
| 2 | 2976.4600 | -44.16 | -16.48 | -27.68 |

IEEE 802.11n HT20 Mode / Chain 1 / CH High / 2.38GHz ~ 2.5GHz



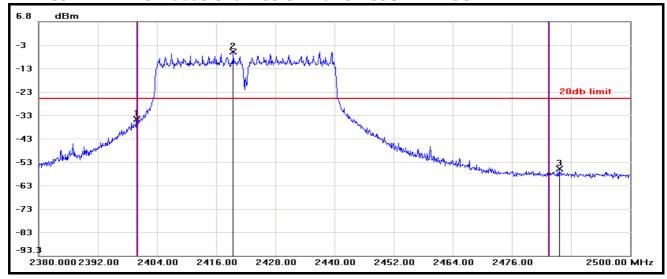
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2399.9200 | -49.84 | -23.23 | -26.61 |
| 2 | 2458.2400 | -3.23 | -23.23 | 20.00 |
| 3 | 2483.5600 | -49.10 | -23.23 | -25.87 |

IEEE 802.11n HT20 Mode / Chain 1 / CH High / 30MHz ~ 25GHz



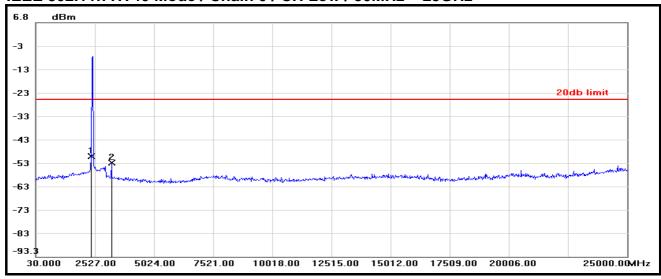
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2277.3000 | -49.74 | -23.23 | -26.51 |
| 2 | 2527.0000 | -51.27 | -23.23 | -28.04 |

IEEE 802.11n HT40 Mode / Chain 0 / CH Low / 2.38GHz ~ 2.5GHz



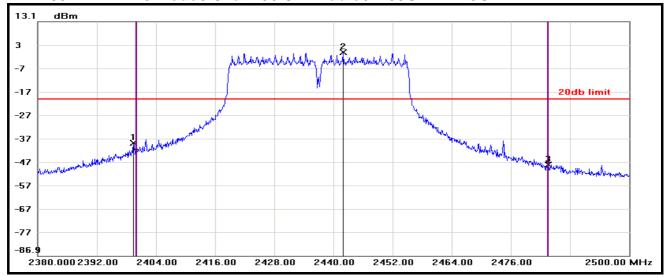
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2399.9200 | -34.99 | -26.06 | -8.93 |
| 2 | 2419.4800 | -6.06 | -26.06 | 20.00 |
| 3 | 2485.6000 | -56.15 | -26.06 | -30.09 |

IEEE 802.11n HT40 Mode / Chain 0 / CH Low / 30MHz ~ 25GHz



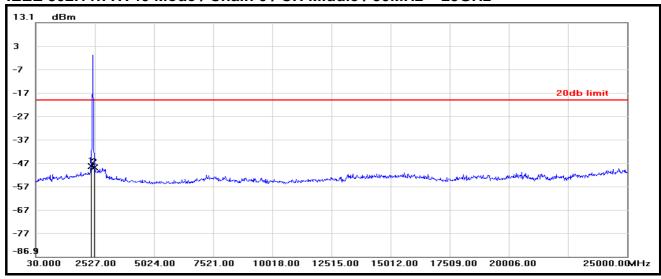
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2377.1800 | -50.39 | -26.06 | -24.33 |
| 2 | 3226.1600 | -53.19 | -26.06 | -27.13 |

IEEE 802.11n HT40 Mode / Chain 0 / CH Middle / 2.38GHz ~ 2.5GHz



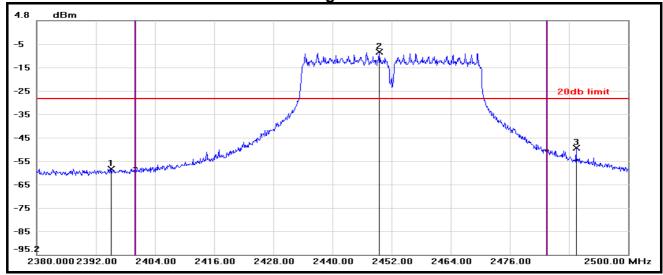
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2399.4400 | -38.88 | -20.14 | -18.74 |
| 2 | 2441.9200 | -0.14 | -20.14 | 20.00 |
| 3 | 2483.5600 | -48.01 | -20.14 | -27.87 |

IEEE 802.11n HT40 Mode / Chain 0 / CH Middle / 30MHz ~ 25GHz



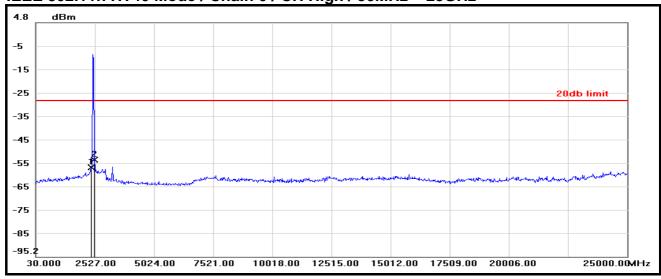
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2377.1800 | -48.40 | -20.14 | -28.26 |
| 2 | 2502.0300 | -48.85 | -20.14 | -28.71 |

IEEE 802.11n HT40 Mode / Chain 0 / CH High / 2.38GHz ~ 2.5GHz



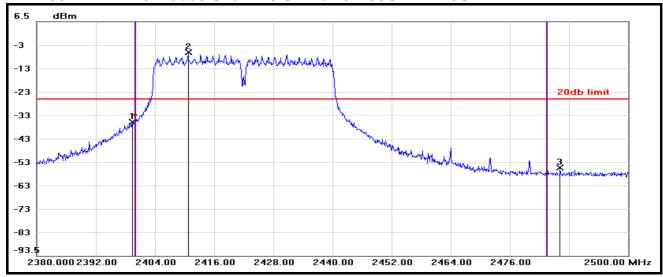
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2395.1200 | -58.45 | -28.51 | -29.94 |
| 2 | 2449.4800 | -8.51 | -28.51 | 20.00 |
| 3 | 2489.4400 | -49.53 | -28.51 | -21.02 |

IEEE 802.11n HT40 Mode / Chain 0 / CH High / 30MHz ~ 25GHz



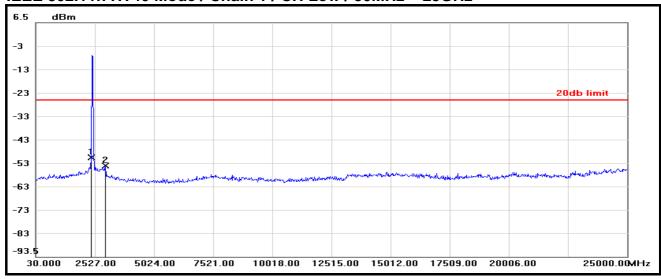
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2377.1800 | -57.16 | -28.51 | -28.65 |
| 2 | 2502.0300 | -53.88 | -28.51 | -25.37 |

IEEE 802.11n HT40 Mode / Chain 1 / CH Low / 2.38GHz ~ 2.5GHz



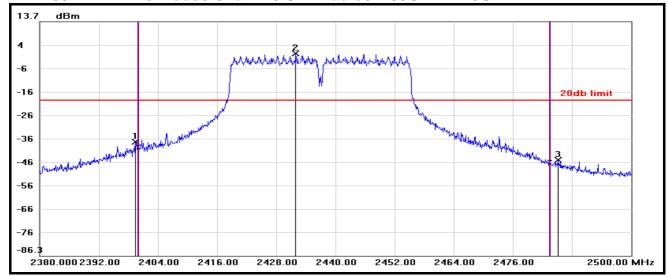
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2399.4400 | -36.22 | -26.67 | -9.55 |
| 2 | 2410.7200 | -6.67 | -26.67 | 20.00 |
| 3 | 2486.2000 | -55.91 | -26.67 | -29.24 |

IEEE 802.11n HT40 Mode / Chain 1 / CH Low / 30MHz ~ 25GHz



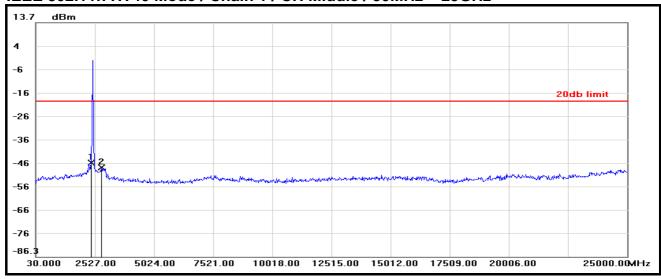
| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2377.1800 | -51.10 | -26.67 | -24.43 |
| 2 | 2976.4600 | -54.52 | -26.67 | -27.85 |

IEEE 802.11n HT40 Mode / Chain 1 / CH Middle / 2.38GHz ~ 2.5GHz



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2399.4400 | -37.68 | -20.01 | -17.67 |
| 2 | 2431.9600 | -0.01 | -20.01 | 20.00 |
| 3 | 2485.1200 | -45.40 | -20.01 | -25.39 |

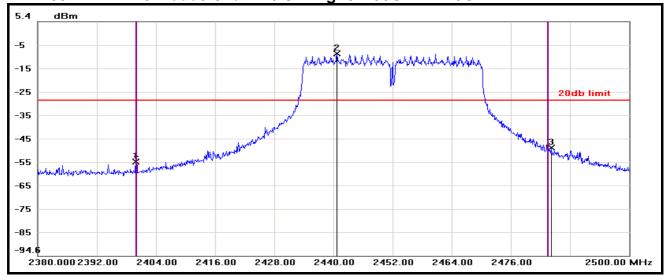
IEEE 802.11n HT40 Mode / Chain 1 / CH Middle / 30MHz ~ 25GHz



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2377.1800 | -46.30 | -20.01 | -26.29 |
| 2 | 2801.6700 | -48.22 | -20.01 | -28.21 |

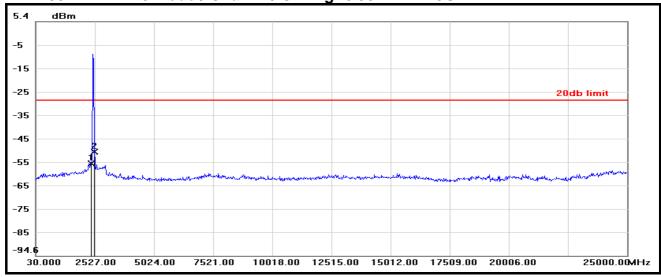
Report No.: T120315033-RP1

IEEE 802.11n HT40 Mode / Chain 1 / CH High / 2.38GHz ~ 2.5GHz



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2399.9200 | -54.46 | -28.27 | -26.19 |
| 2 | 2440.7200 | -8.27 | -28.27 | 20.00 |
| 3 | 2484.1600 | -48.40 | -28.27 | -20.13 |

IEEE 802.11n HT40 Mode / Chain 1 / CH High / 30MHz ~ 25GHz



| No. | Frequency(MHz) | Result(dBm) | Limit(dBm) | Margin(dBm) |
|-----|----------------|-------------|------------|-------------|
| 1 | 2377.1800 | -55.16 | -28.27 | -26.89 |
| 2 | 2502.0300 | -50.16 | -28.27 | -21.89 |

7.5 RADIATED EMISSION

LIMITS

(1) According to § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|----------------------------|--------------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 -1710 | 10.6 -12.7 |
| 6.26775 - 6.26825 | 108 -121.94 | 1718.8 - 1722.2 | 13.25 -13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 – 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 -16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2655 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3338 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 -335.4 | 3600 - 4400 | (²) |
| 13.36 - 13.41 | | | |

Remark:

(2) According to § 15.205 (b) Except as provided in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

^{1. 1} Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

^{2. 2} Above 38.6

(3) According to § 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table :

| 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 |

Remark: **Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

(4) According to § 15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST EQUIPMENT

Radiated Emission / 966Chamber B

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due | |
|------------------------------------|-----------------|-------------|---------------|--------------------|--|
| Spectrum Analyzer | Agilent | E4446A | MY43360132 | 06/19/2012 | |
| EMI Receiver | ROHDE & SCHWARZ | ESCS 30 | 826547/004 | 10/27/2012 | |
| Broadband Hybrid Bi-Log Antenna | Sunol Sciences | JB1 | A100209-4 | 10/05/2012 | |
| Double-Ridged Waveguide Horn | ETS-LINDGREN | 3117 | 00078733 | 12/06/2012 | |
| Horn Antenna | COM-POWER | AH-840 | 03077 | 12/06/2012 | |
| Pre-Amplifier | Agilent | 8447D | 2944A10052 | 07/19/2012 | |
| Pre-Amplifier | EMCI | EMC012645 | 980060 | 08/29/2012 | |
| LOOP Antenna | EMCO | 6502 | 8905-2356 | 06/10/2012 | |
| Band Reject Notch Filter | Micro-Tronics | BRM05702-01 | 009 | N.C.R | |

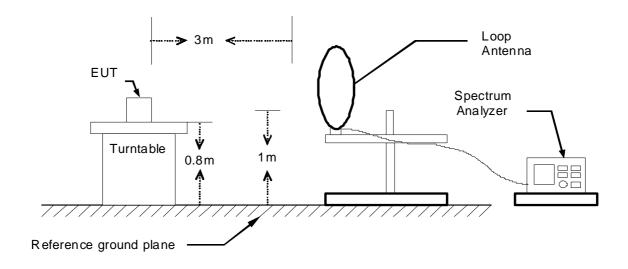
Remark: 1. Each piece of equipment is scheduled for calibration once a year.

2. N.C.R = No Calibration Request.

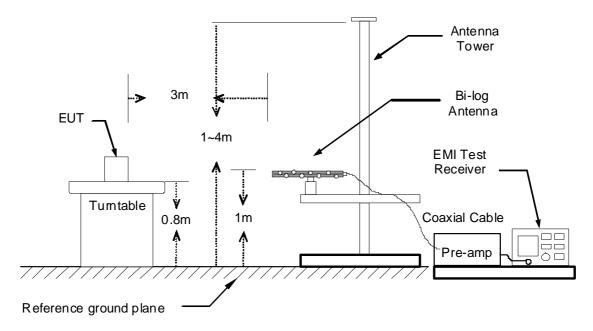
TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission from below 1GHz.

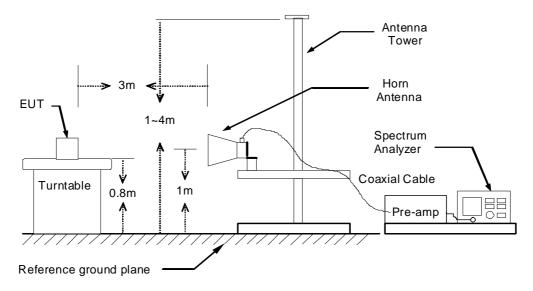
9kHz ~ 30MHz



30MHz ~ 1GHz



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



TEST PROCEDURE

- 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. While measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna.
- 3. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Remark:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

Report No.: T120315033-RP1

TEST RESULTS

Below 1 GHz (9kHz ~ 30MHz)

No emission found between lowest internal used/generated frequency to 30MHz.

Below 1 GHz (30MHz ~ 1GHz)

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|-------------------------|----------------------------|------------------|-------------|
| Test Model MB92-EKI6340 | | Test Date | 2012/03/21 |
| Test Mode | TX Mode / Antenna (3) / 5G | Temp. & Humidity | 22°C, 56% |

| 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|--------------------------------------|-------------------|--------------------------------|--------------------|-------------------|----------------|--------|--|--|--|
| Frequency (MHz) | Reading (dBµV) | Correction Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Remark | | | |
| 107.60 | 56.43 | -15.92 | 40.51 | 43.50 | -2.99 | Peak | | | |
| 140.58 | 53.90 | -13.48 | 40.41 | 43.50 | -3.09 | Peak | | | |
| 232.73 | 58.08 | -14.29 | 43.79 | 46.00 | -2.21 | Peak | | | |
| 270.56 | 55.79 | -12.56 | 43.22 | 46.00 | -2.78 | Peak | | | |
| 339.43 | 55.55 | -11.05 | 44.49 | 46.00 | -1.51 | Peak | | | |
| 372.41 | 53.20 | -10.45 | 42.75 | 46.00 | -3.25 | QP | | | |
| 405.39 | 54.49 | -9.89 | 44.59 | 46.00 | -1.41 | Peak | | | |
| 663.41 | 663.41 48.83 | | 43.03 | 46.00 | -2.97 | Peak | | | |
| | | | | | | | | | |
| | | 966 Chamb | er_B at 3Met | er / Vertical | | | | | |
| Frequency (MHz) | Reading (dBµV) | Correction Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Remark | | | |
| 32.91 | 47.07 | -8.20 | 38.87 | 40.00 | -1.13 | Peak | | | |
| 145.43 | 51.08 | -13.76 | 37.31 | 43.50 | -6.19 | Peak | | | |
| 339.43 | 54.47 | -11.05 | 43.41 | 46.00 | -2.59 | Peak | | | |
| 407.33 | 50.76 | -9.86 | 40.89 | 46.00 | -5.11 | Peak | | | |
| 436.43 | 48.80 | -9.40 | 39.40 | 46.00 | -6.60 | Peak | | | |
| 663.41 | 43.76 | -5.80 | 37.96 | 46.00 | -8.04 | Peak | | | |
| 967.02 | 37.56 | -1.42 | 36.14 | 54.00 | -17.86 | Peak | | | |

Remark:

- 1. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.
- 2. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) PreAmp.Gain (dB)
- 4. Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)
- 5. Margin (dB) = Remark result (dBuV/m) Quasi-peak limit (dBuV/m).

Report No.: T120315033-RP1

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|---------------------|------------------------------|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/21 |
| Test Mode | TX Mode / Antenna (2) / 2.4G | Temp. & Humidity | 22°C, 56% |

| 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|--------------------------------------|-------|---|-------|-------------------|----------------|--------|--|--|--|
| Frequency Reading (MHz) (dBµV) | | Correction Factor (dB/m) Result (dBµV/m) | | Limit (dBµV/m) | Margin (dB) | Remark | | | |
| 140.58 | 53.31 | -13.48 | 39.83 | 43.50 | -3.67 | Peak | | | |
| 192.96 | 54.39 | -13.95 | 40.44 | 43.50 | -3.06 | Peak | | | |
| 210.42 | 55.10 | -14.12 | 40.98 | 43.50 | -2.52 | QP | | | |
| 269.59 | 55.00 | -12.63 | 42.37 | 46.00 | -3.63 | QP | | | |
| 310.33 | 52.80 | -11.64 | 41.16 | 46.00 | -4.84 | Peak | | | |
| 666.32 | 45.73 | -5.78 | 39.95 | 46.00 | -6.05 | Peak | | | |
| 733.25 | 42.59 | -4.96 | 37.62 | 46.00 | -8.38 | Peak | | | |
| 889.42 | 36.12 | -2.34 | 33.78 | 46.00 | -12.22 | Peak | | | |

| | 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|--------------------|------------------------------------|--------|--------------------------|-------|----------------------------|------|--|--|--|--|
| Frequency (MHz) | . , | | Correction Result (dB/m) | | Limit Margin (dBµV/m) (dB) | | | | | |
| 43.58 | 54.00 | -15.72 | 38.28 | 40.00 | -1.72 | QP | | | | |
| 106.63 | 56.68 | -16.10 | 40.58 | 43.50 | -2.92 | Peak | | | | |
| 132.82 | 52.70 | -13.51 | 39.19 | 43.50 | -4.31 | Peak | | | | |
| 232.73 | 52.11 | -14.29 | 37.82 | 46.00 | -8.18 | Peak | | | | |
| 269.59 | 49.37 | -12.63 | 36.74 | 46.00 | -9.26 | Peak | | | | |
| 302.57 | 48.54 | -11.80 | 36.74 | 46.00 | -9.26 | Peak | | | | |
| 666.32 | 41.09 | -5.78 | 35.31 | 46.00 | -10.69 | Peak | | | | |
| 950.53 | 39.16 | -1.88 | 37.29 | 46.00 | -8.71 | Peak | | | | |

Remark:

- 1. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.
- 2. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) PreAmp.Gain (dB)
- 4. Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)
- 5. Margin (dB) = Remark result (dBuV/m) Quasi-peak limit (dBuV/m).

Above 1 GHz

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|--------------|---|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/22 |
| Test Mode | IEEE 802.11a TX / CH Low / Antenna (3) | Temp. & Humidity | 24°C, 57% |

| | | 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | | |
|--------------------|--------------------------|--------------------------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|--------|--|--|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | | | |
| 1055.00 | 67.39 | | -16.86 | 50.53 | | 74.00 | 54.00 | -3.47 | Peak | | | |
| 1255.00 | 67.27 | | -16.57 | 50.70 | | 74.00 | 54.00 | -3.30 | Peak | | | |
| 1545.00 | 65.61 | | -15.84 | 49.78 | | 74.00 | 54.00 | -4.22 | Peak | | | |
| 6012.00 | 52.31 | | -2.50 | 49.81 | | 74.00 | 54.00 | -4.19 | Peak | | | |
| 6648.00 | 53.18 | | -1.95 | 51.23 | | 74.00 | 54.00 | -2.77 | Peak | | | |
| 7428.00 | 50.93 | | -0.46 | 50.46 | | 74.00 | 54.00 | -3.54 | Peak | | | |
| | | | | | | | | | | | | |
| | | | | | 3Meter / Ve | ertical | | | | | | |
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | | | |
| 1080.00 | 67.18 | | -16.82 | 50.36 | | 74.00 | 54.00 | -3.64 | Peak | | | |

| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | | Limit-AV (dBuV/m) | Margin (dB) | Remark |
|--------------------|--------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|-------|----------------------|----------------|--------|
| 1080.00 | 67.18 | | -16.82 | 50.36 | | 74.00 | 54.00 | -3.64 | Peak |
| 1255.00 | 66.14 | | -16.57 | 49.57 | | 74.00 | 54.00 | -4.43 | Peak |
| 5350.00 | 71.57 | 58.30 | -4.66 | 66.91 | 53.64 | 74.00 | 54.00 | -0.36 | AVG |
| 6012.00 | 53.09 | | -2.50 | 50.59 | | 74.00 | 54.00 | -3.41 | Peak |
| 6732.00 | 51.93 | | -1.86 | 50.07 | | 74.00 | 54.00 | -3.93 | Peak |
| 7488.00 | 50.90 | | -0.31 | 50.59 | | 74.00 | 54.00 | -3.41 | Peak |

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|--------------|--|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/22 |
| Test Mode | IEEE 802.11a TX / CH Middle / Antenna (3) | Temp. & Humidity | 24°C, 57% |

| | 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|--------------------|--------------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|-------|----------------------|----------------|--------|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | | Limit-AV (dBuV/m) | Margin (dB) | Remark | |
| 1065.00 | 67.35 | | -16.85 | 50.51 | | 74.00 | 54.00 | -3.49 | Peak | |
| 1340.00 | 65.88 | | -16.45 | 49.42 | | 74.00 | 54.00 | -4.58 | Peak | |
| 1535.00 | 66.31 | | -15.92 | 50.39 | | 74.00 | 54.00 | -3.61 | Peak | |
| 6000.00 | 52.32 | | -2.51 | 49.81 | | 74.00 | 54.00 | -4.19 | Peak | |
| 6756.00 | 52.39 | | -1.84 | 50.56 | | 74.00 | 54.00 | -3.44 | Peak | |
| 7524.00 | 51.90 | | -0.25 | 51.65 | | 74.00 | 54.00 | -2.35 | Peak | |
| | | | | | | | | | | |

| | 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|--------------------|------------------------------------|--------------------------|--------------------------------|-----------------------|-------|----------------------|----------------------|----------------|--------|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | |
| 1075.00 | 68.17 | | -16.83 | 51.34 | | 74.00 | 54.00 | -2.66 | Peak | |
| 1235.00 | 67.14 | | -16.60 | 50.54 | | 74.00 | 54.00 | -3.46 | Peak | |
| 1555.00 | 67.12 | | -15.75 | 51.37 | | 74.00 | 54.00 | -2.63 | Peak | |
| 5420.00 | 70.05 | 56.61 | -4.49 | 65.56 | 52.12 | 74.00 | 54.00 | -1.88 | AVG | |
| 6000.00 | 58.98 | 45.83 | -2.51 | 56.47 | 43.32 | 74.00 | 54.00 | -10.68 | AVG | |
| 6744.00 | 53.06 | | -1.85 | 51.21 | | 74.00 | 54.00 | -2.79 | Peak | |
| 7524.00 | 51.74 | | -0.25 | 51.49 | | 74.00 | 54.00 | -2.51 | Peak | |

Remark

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

Margin = Result - Limit

 $Remark\ Peak = Result(PK) - Limit(AV)$

| Product Name | pduct Name PCI-RF module | | Rueyyan Lin |
|--------------|--|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/22 |
| Test Mode | IEEE 802.11a TX / CH High / Antenna (3) | Temp. & Humidity | 24°C, 57% |

| | 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|--------------------|--------------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|-------|----------------------|----------------|--------|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | | Limit-AV (dBuV/m) | Margin (dB) | Remark | |
| 1090.00 | 67.05 | | -16.81 | 50.24 | | 74.00 | 54.00 | -3.76 | Peak | |
| 1365.00 | 67.11 | | -16.42 | 50.70 | | 74.00 | 54.00 | -3.30 | Peak | |
| 1625.00 | 64.77 | | -15.15 | 49.62 | | 74.00 | 54.00 | -4.38 | Peak | |
| 6000.00 | 52.11 | | -2.51 | 49.61 | | 74.00 | 54.00 | -4.39 | Peak | |
| 6564.00 | 51.91 | | -2.04 | 49.88 | | 74.00 | 54.00 | -4.12 | Peak | |
| 7584.00 | 51.69 | | -0.19 | 51.50 | | 74.00 | 54.00 | -2.50 | Peak | |
| | | | | | | | | | | |

| | 966 Chamber_B at 3Meter / Vertical | | | | | | | | | | |
|--------------------|------------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|--------|--|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | | |
| 1095.00 | 68.30 | | -16.80 | 51.50 | | 74.00 | 54.00 | -2.50 | Peak | | |
| 1260.00 | 66.97 | | -16.57 | 50.40 | | 74.00 | 54.00 | -3.60 | Peak | | |
| 1645.00 | 66.54 | | -14.98 | 51.56 | | 74.00 | 54.00 | -2.44 | Peak | | |
| 5380.00 | 70.40 | 56.49 | -4.59 | 65.81 | 51.90 | 74.00 | 54.00 | -2.10 | AVG | | |
| 6012.00 | 54.14 | | -2.50 | 51.64 | | 74.00 | 54.00 | -2.36 | Peak | | |
| 6624.00 | 52.42 | | -1.97 | 50.45 | | 74.00 | 54.00 | -3.55 | Peak | | |
| 7524.00 | 51.73 | | -0.25 | 51.48 | | 74.00 | 54.00 | -2.52 | Peak | | |

Remark

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

Margin = Result - Limit

 $Remark\ Peak = Result(PK) - Limit(AV)$

CH Low / Antenna (3)

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|--------------|------------------------|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/22 |
| Test Mode | IEEE 802.11n HT20 TX / | Temp. & Humidity | 24°C, 57% |

Report No.: T120315033-RP1

| 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|--------------------------------------|--------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|--------|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1125.00 | 67.31 | | -16.76 | 50.55 | | 74.00 | 54.00 | -3.45 | Peak |
| 1400.00 | 66.79 | | -16.37 | 50.42 | | 74.00 | 54.00 | -3.58 | Peak |
| 1675.00 | 65.53 | | -14.72 | 50.81 | | 74.00 | 54.00 | -3.19 | Peak |
| 6024.00 | 52.39 | | -2.49 | 49.90 | | 74.00 | 54.00 | -4.10 | Peak |
| 6708.00 | 52.28 | | -1.89 | 50.39 | | 74.00 | 54.00 | -3.61 | Peak |
| 7572.00 | 51.69 | | -0.21 | 51.48 | | 74.00 | 54.00 | -2.52 | Peak |
| | | | | | | | | | |
| | | 9 | 66 Chaml | ber_B at 3 | 3Meter / V | ertical | | | |
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1165.00 | 66.83 | | -16.70 | 50.13 | | 74.00 | 54.00 | -3.87 | Peak |
| 1365.00 | 65.46 | | -16.42 | 49.05 | | 74.00 | 54.00 | -4.95 | Peak |
| 1595.00 | 65.84 | | -15.41 | 50.43 | | 74.00 | 54.00 | -3.57 | Peak |
| 5355.00 | 71.46 | 58.20 | -4.65 | 66.81 | 53.55 | 74.00 | 54.00 | -0.45 | AVG |
| 6000.00 | 60.13 | 45.97 | -2.51 | 57.62 | 43.46 | 74.00 | 54.00 | -10.54 | AVG |

Remark:

6732.00

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.

-1.86

3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

74.00

54.00

-3.63

Peak

50.37

- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor Margin = Result – Limit

52.23

Remark Peak = Result(PK) - Limit(AV)

74.00

74.00

74.00

74.00

74.00

53.77

43.71

54.00

54.00

54.00

54.00

54.00

-4.51

-3.79

-0.23

-10.29

-3.64

Peak

Peak

AVG

AVG

Peak

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|--------------|---|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/22 |
| Test Mode | IEEE 802.11n HT20 TX / CH Middle / Antenna (3) | Temp. & Humidity | 24°C, 57% |

| | 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|--------------------|--------------------------------------|--------------------------|--------------------------------|-----------------------|------------|----------------------|----------------------|----------------|--------|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | |
| 1060.00 | 67.17 | | -16.85 | 50.32 | | 74.00 | 54.00 | -3.68 | Peak | |
| 1315.00 | 66.38 | | -16.49 | 49.89 | | 74.00 | 54.00 | -4.11 | Peak | |
| 1635.00 | 66.51 | | -15.07 | 51.44 | | 74.00 | 54.00 | -2.56 | Peak | |
| 6036.00 | 52.71 | | -2.48 | 50.23 | | 74.00 | 54.00 | -3.77 | Peak | |
| 6456.00 | 51.98 | | -2.14 | 49.84 | | 74.00 | 54.00 | -4.16 | Peak | |
| 6984.00 | 51.91 | | -1.60 | 50.31 | | 74.00 | 54.00 | -3.69 | Peak | |
| | | | | | | | | | | |
| | | 9 | 66 Chaml | ber_B at 3 | 3Meter / V | ertical | | | | |
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | |
| 1090.00 | 67.05 | | -16.81 | 50.24 | | 74.00 | 54.00 | -3.76 | Peak | |
| 1 | | 1 | 1 | | l | 1 | | ı | 1 | |

49.49

50.21

68.00

57.51

50.36

Remark:

1300.00

1635.00

5365.00

6048.00

6684.00

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.

-16.51

-15.07

-4.62

-2.47

-1.91

- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor
 Margin = Result Limit

66.00

65.27

72.62

59.98

52.27

58.39

46.18

Remark Peak = Result(PK) - Limit(AV)

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|---------------------|---|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/22 |
| Test Mode | IEEE 802.11n HT20 TX / CH High / Antenna (3) | Temp. & Humidity | 24°C, 57% |

Report No.: T120315033-RP1

| | 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|--------------------|--------------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|--------|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | |
| 1080.00 | 66.68 | | -16.82 | 49.86 | | 74.00 | 54.00 | -4.14 | Peak | |
| 1280.00 | 67.18 | | -16.54 | 50.64 | | 74.00 | 54.00 | -3.36 | Peak | |
| 1625.00 | 65.94 | | -15.15 | 50.79 | | 74.00 | 54.00 | -3.21 | Peak | |
| 6000.00 | 52.63 | | -2.51 | 50.12 | | 74.00 | 54.00 | -3.88 | Peak | |
| 6708.00 | 52.32 | | -1.89 | 50.44 | | 74.00 | 54.00 | -3.56 | Peak | |
| 7464.00 | 51.45 | | -0.37 | 51.08 | | 74.00 | 54.00 | -2.92 | Peak | |
| | | | | | | | | | | |
| | | 9 | 66 Chaml | ber_B at 3 | 3Meter / V | ertical | | | | |
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | |
| 1150.00 | 67.41 | | -16.72 | 50.69 | | 74.00 | 54.00 | -3.31 | Peak | |
| 1365.00 | 66.41 | | -16.42 | 49.99 | | 74.00 | 54.00 | -4.01 | Peak | |
| 1610.00 | 66.53 | | -15.28 | 51.25 | | 74.00 | 54.00 | -2.75 | Peak | |
| 5415.00 | 70.41 | 57.82 | -4.50 | 65.91 | 53.32 | 74.00 | 54.00 | -0.68 | AVG | |
| 6036.00 | 60.08 | 46.11 | -2.48 | 57.60 | 43.63 | 74.00 | 54.00 | -10.37 | AVG | |
| 6720.00 | 53.17 | | -1.87 | 51.29 | | 74.00 | 54.00 | -2.71 | Peak | |

Remark

7428.00

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.

-0.46

3. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

74.00

54.00

-2.98

Peak

51.02

- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

51.48

Margin = Result - Limit

 $Remark\ Peak = Result(PK) - Limit(AV)$

74.00

74.00

74.00

53.20

43.71

54.00

54.00

54.00

-0.80

-10.29

-2.90

AVG

AVG

Peak

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|--------------|--|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/22 |
| Test Mode | IEEE 802.11n HT40 TX / CH Low / Antenna (3) | Temp. & Humidity | 24°C, 57% |

| | 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|--------------------|--------------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|--------|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | |
| 1105.00 | 67.84 | | -16.79 | 51.06 | | 74.00 | 54.00 | -2.94 | Peak | |
| 1280.00 | 66.18 | | -16.54 | 49.64 | | 74.00 | 54.00 | -4.36 | Peak | |
| 1600.00 | 66.98 | | -15.37 | 51.62 | | 74.00 | 54.00 | -2.38 | Peak | |
| 6012.00 | 51.44 | | -2.50 | 48.94 | | 74.00 | 54.00 | -5.06 | Peak | |
| 6552.00 | 51.94 | | -2.05 | 49.89 | | 74.00 | 54.00 | -4.11 | Peak | |
| 7500.00 | 51.29 | | -0.28 | 51.02 | | 74.00 | 54.00 | -2.98 | Peak | |
| | | | | | | | | | | |
| | | 9 | 66 Chaml | ber_B at 3 | 3Meter / V | ertical | | | | |
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | |
| 1125.00 | 67.18 | | -16.76 | 50.42 | | 74.00 | 54.00 | -3.58 | Peak | |
| 1330.00 | 66.51 | | -16.47 | 50.04 | | 74.00 | 54.00 | -3.96 | Peak | |
| 1685.00 | 65.34 | | -14.64 | 50.70 | | 74.00 | 54.00 | -3.30 | Peak | |
| | 1 | 1 | 1 | 1 | 1 | 1 | I | 1 | 1 | |

Remark:

5380.00

6012.00

7536.00

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.

-4.59

-2.50

-0.24

3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

66.59

57.63

51.10

- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor Margin = Result – Limit

71.18

60.13

51.34

57.79

46.21

Remark Peak = Result(PK) - Limit(AV)

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|--------------|---|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/22 |
| Test Mode | IEEE 802.11n HT40 TX / CH High / Antenna (3) | Temp. & Humidity | 24°C, 57% |

| | 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | | |
|--------------------|--------------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|-------|----------------------|----------------|--------|--|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | | Limit-AV (dBuV/m) | Margin (dB) | Remark | | |
| 1035.00 | 67.59 | | -16.89 | 50.70 | | 74.00 | 54.00 | -3.30 | Peak | | |
| 1330.00 | 66.52 | | -16.47 | 50.06 | | 74.00 | 54.00 | -3.94 | Peak | | |
| 1660.00 | 65.42 | | -14.85 | 50.57 | | 74.00 | 54.00 | -3.43 | Peak | | |
| 6024.00 | 53.21 | | -2.49 | 50.72 | | 74.00 | 54.00 | -3.28 | Peak | | |
| 6696.00 | 51.96 | | -1.90 | 50.06 | | 74.00 | 54.00 | -3.94 | Peak | | |
| 7608.00 | 50.77 | | -0.17 | 50.60 | | 74.00 | 54.00 | -3.40 | Peak | | |
| | | | | | | | | | | | |

| | 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|--------------------|------------------------------------|--------------------------|--------------------------------|-----------------------|-------|-------|----------------------|----------------|--------|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | | | Limit-AV (dBuV/m) | Margin (dB) | Remark | |
| 1130.00 | 67.20 | | -16.75 | 50.45 | | 74.00 | 54.00 | -3.55 | Peak | |
| 1370.00 | 66.67 | | -16.41 | 50.26 | | 74.00 | 54.00 | -3.74 | Peak | |
| 1635.00 | 64.83 | | -15.07 | 49.77 | | 74.00 | 54.00 | -4.23 | Peak | |
| 5350.00 | 71.40 | 57.89 | -4.66 | 66.74 | 53.23 | 74.00 | 54.00 | -0.77 | AVG | |
| 6012.00 | 59.70 | 46.44 | -2.50 | 57.20 | 43.94 | 74.00 | 54.00 | -10.06 | AVG | |
| 6744.00 | 52.26 | | -1.85 | 50.41 | | 74.00 | 54.00 | -3.59 | Peak | |

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

Report No.: T120315033-RP1

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|---------------------|---|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/20 |
| Test Mode | IEEE 802.11b TX / CH Low / Antenna (2) | Temp. & Humidity | 22°C, 57% |

| | 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|--------------------|--------------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|--------|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | |
| 1048.00 | 54.80 | | -3.73 | 51.07 | | 74.00 | 54.00 | -2.93 | Peak | |
| 1182.00 | 54.39 | | -3.29 | 51.09 | | 74.00 | 54.00 | -2.91 | Peak | |
| 1356.00 | 53.48 | | -2.73 | 50.74 | | 74.00 | 54.00 | -3.26 | Peak | |
| 3195.00 | 41.81 | | 5.62 | 47.43 | | 74.00 | 54.00 | -6.57 | Peak | |
| 4395.00 | 41.00 | | 8.34 | 49.33 | | 74.00 | 54.00 | -4.67 | Peak | |
| 4980.00 | 39.64 | | 9.87 | 49.51 | | 74.00 | 54.00 | -4.49 | Peak | |

| | 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|--------------------|------------------------------------|--------------------------|--------------------------------|-----------------------|--|----------------------|----------------------|----------------|--------|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | |
| 1048.00 | 54.97 | | -3.73 | 51.25 | | 74.00 | 54.00 | -2.75 | Peak | |
| 1236.00 | 54.90 | | -3.12 | 51.78 | | 74.00 | 54.00 | -2.22 | Peak | |
| 1530.00 | 54.09 | | -2.00 | 52.09 | | 74.00 | 54.00 | -1.91 | Peak | |
| 3210.00 | 43.19 | | 5.64 | 48.82 | | 74.00 | 54.00 | -5.18 | Peak | |
| 4260.00 | 40.60 | | 7.88 | 48.48 | | 74.00 | 54.00 | -5.52 | Peak | |
| 4965.00 | 40.13 | | 9.83 | 49.96 | | 74.00 | 54.00 | -4.04 | Peak | |

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

74.00

74.00

74.00

54.00

54.00

54.00

-5.80

-5.55

-2.73

Peak

Peak

Peak

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|--------------|--|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/20 |
| Test Mode | IEEE 802.11b TX / CH Middle / Antenna (2) | Temp. & Humidity | 22°C, 57% |

| | | 96 | 6 Chambe | er_B at 3N | /leter / Ho | rizontal | | | |
|--------------------|--------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|--------|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1098.00 | 54.84 | | -3.56 | 51.28 | | 74.00 | 54.00 | -2.72 | Peak |
| 1260.00 | 54.64 | | -3.04 | 51.60 | | 74.00 | 54.00 | -2.40 | Peak |
| 1390.00 | 52.87 | | -2.62 | 50.25 | | 74.00 | 54.00 | -3.75 | Peak |
| 3255.00 | 41.10 | | 5.69 | 46.79 | | 74.00 | 54.00 | -7.21 | Peak |
| 3750.00 | 40.89 | | 6.47 | 47.36 | | 74.00 | 54.00 | -6.64 | Peak |
| 4950.00 | 39.64 | | 9.80 | 49.43 | | 74.00 | 54.00 | -4.57 | Peak |
| | | | | | | | | | |
| | | 9 | 66 Chaml | ber_B at 3 | 3Meter / V | ertical | | | |
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1064.00 | 55.49 | | -3.67 | 51.82 | | 74.00 | 54.00 | -2.18 | Peak |
| 1264.00 | 54.61 | | -3.03 | 51.58 | | 74.00 | 54.00 | -2.42 | Peak |
| 1410.00 | 53.12 | | -2.56 | 50.56 | | 74.00 | 54.00 | -3.44 | Peak |
| 2288.00 | 58.00 | 47.73 | 3.16 | 61.16 | 50.89 | 74.00 | 54.00 | -3.11 | AVG |

Remark:

3255.00

4380.00

4875.00

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.

5.69

8.28

9.61

3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

48.20

48.45

51.27

- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

42.51

40.17

41.66

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|--------------|--|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/20 |
| Test Mode | IEEE 802.11b TX / CH High / Antenna (2) | Temp. & Humidity | 22°C, 57% |

| | 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | | |
|--------------------|--------------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|----------------------|-------|----------------|--------|--|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | | Margin (dB) | Remark | | |
| 1082.00 | 54.24 | | -3.62 | 50.62 | | 74.00 | 54.00 | -3.38 | Peak | | |
| 1234.00 | 53.80 | | -3.13 | 50.68 | | 74.00 | 54.00 | -3.32 | Peak | | |
| 1416.00 | 53.09 | | -2.54 | 50.55 | | 74.00 | 54.00 | -3.45 | Peak | | |
| 3240.00 | 42.11 | | 5.67 | 47.78 | | 74.00 | 54.00 | -6.22 | Peak | | |
| 4095.00 | 40.08 | | 7.32 | 47.40 | | 74.00 | 54.00 | -6.60 | Peak | | |
| 4950.00 | 40.10 | | 9.80 | 49.89 | | 74.00 | 54.00 | -4.11 | Peak | | |
| | | | | | | | | | | | |
| | | 9 | 66 Chaml | per_B at 3 | 3Meter / V | ertical | | | | | |

| | 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|--------------------|------------------------------------|--------------------------|--------------------------------|-----------------------|--|-------|----------------------|----------------|--------|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | | | Limit-AV (dBuV/m) | Margin (dB) | Remark | |
| 1006.00 | 53.77 | | -3.86 | 49.91 | | 74.00 | 54.00 | -4.09 | Peak | |
| 1164.00 | 53.20 | | -3.35 | 49.85 | | 74.00 | 54.00 | -4.15 | Peak | |
| 1320.00 | 53.26 | | -2.85 | 50.41 | | 74.00 | 54.00 | -3.59 | Peak | |
| 3270.00 | 42.11 | | 5.70 | 47.81 | | 74.00 | 54.00 | -6.19 | Peak | |
| 4245.00 | 40.45 | | 7.83 | 48.28 | | 74.00 | 54.00 | -5.72 | Peak | |
| 4920.00 | 40.25 | | 9.72 | 49.97 | | 74.00 | 54.00 | -4.03 | Peak | |

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

74.00

74.00

74.00

74.00

74.00

74.00

54.00

54.00

54.00

54.00

54.00

54.00

-3.53

-2.81

-2.62

-5.33

-5.85

-5.26

Peak

Peak

AVG

Peak

Peak

Peak

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|--------------|---|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/20 |
| Test Mode | IEEE 802.11g TX / CH Low / Antenna (2) | Temp. & Humidity | 22°C, 57% |

| | 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | | | |
|--------------------|--------------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|--------|--|--|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | | | |
| 1120.00 | 55.39 | | -3.49 | 51.89 | | 74.00 | 54.00 | -2.11 | Peak | | | |
| 1244.00 | 53.80 | | -3.09 | 50.71 | | 74.00 | 54.00 | -3.29 | Peak | | | |
| 1476.00 | 53.26 | | -2.35 | 50.92 | | 74.00 | 54.00 | -3.08 | Peak | | | |
| 3225.00 | 41.82 | | 5.65 | 47.47 | | 74.00 | 54.00 | -6.53 | Peak | | | |
| 4845.00 | 39.16 | | 9.54 | 48.70 | | 74.00 | 54.00 | -5.30 | Peak | | | |
| 5790.00 | 39.23 | | 11.36 | 50.59 | | 74.00 | 54.00 | -3.41 | Peak | | | |
| | | | | | | | | | | | | |
| | | 9 | 66 Chaml | ber_B at 3 | 3Meter / V | ertical | | | | | | |
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | | | |
| 1006.00 | 54.14 | | -3.86 | 50.28 | | 74.00 | 54.00 | -3.72 | Peak | | | |

50.47

51.19

61.93

48.67

48.15

48.74

51.38

Remark:

1172.00

1324.00

2288.00

3210.00

4110.00

4875.00

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.

-3.33

-2.84

3.16

5.64

7.37

9.61

- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

53.80

54.03

58.77

43.04

40.78

39.12

48.22

Margin = Result – Limit

Remark Peak = Result(PK) - Limit(AV)

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|--------------|--|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/20 |
| Test Mode | IEEE 802.11g TX / CH Middle / Antenna (2) | Temp. & Humidity | 22°C, 57% |

| | 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | | | | |
|--------------------|--------------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|-------|----------------------|----------------|--------|--|--|--|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | | Limit-AV (dBuV/m) | Margin (dB) | Remark | | | | |
| 1018.00 | 54.95 | | -3.82 | 51.13 | | 74.00 | 54.00 | -2.87 | Peak | | | | |
| 1146.00 | 53.52 | | -3.41 | 50.11 | | 74.00 | 54.00 | -3.89 | Peak | | | | |
| 1316.00 | 53.47 | | -2.86 | 50.60 | | 74.00 | 54.00 | -3.40 | Peak | | | | |
| 3240.00 | 41.67 | | 5.67 | 47.34 | | 74.00 | 54.00 | -6.66 | Peak | | | | |
| 4860.00 | 40.12 | | 9.58 | 49.69 | | 74.00 | 54.00 | -4.31 | Peak | | | | |
| 6030.00 | 38.89 | | 11.84 | 50.73 | | 74.00 | 54.00 | -3.27 | Peak | | | | |
| | | | | | | | | | | | | | |

| | 966 Chamber_B at 3Meter / Vertical | | | | | | | | | | | |
|--------------------|------------------------------------|--------------------------|--------------------------------|-----------------------|-------|----------------------|----------------------|----------------|--------|--|--|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | | | |
| 1022.00 | 54.94 | | -3.81 | 51.14 | | 74.00 | 54.00 | -2.86 | Peak | | | |
| 1134.00 | 54.28 | | -3.45 | 50.83 | | 74.00 | 54.00 | -3.17 | Peak | | | |
| 1264.00 | 53.35 | | -3.03 | 50.32 | | 74.00 | 54.00 | -3.68 | Peak | | | |
| 2288.00 | 60.31 | 48.88 | 3.16 | 63.47 | 52.04 | 74.00 | 54.00 | -1.96 | AVG | | | |
| 3345.00 | 42.51 | | 5.78 | 48.29 | | 74.00 | 54.00 | -5.71 | Peak | | | |
| 4395.00 | 40.62 | | 8.34 | 48.96 | | 74.00 | 54.00 | -5.04 | Peak | | | |
| 4905.00 | 40.04 | | 9.69 | 49.73 | | 74.00 | 54.00 | -4.27 | Peak | | | |

Remark.

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

Margin = Result - Limit

 $Remark\ Peak = Result(PK) - Limit(AV)$

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|--------------|--|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/20 |
| Test Mode | IEEE 802.11g TX / CH High / Antenna (2) | Temp. & Humidity | 22°C, 57% |

| | 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | | | | |
|--------------------|--------------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|-------|-------|----------------|--------|--|--|--|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | | | Margin (dB) | Remark | | | | |
| 1050.00 | 54.89 | | -3.72 | 51.17 | | 74.00 | 54.00 | -2.83 | Peak | | | | |
| 1220.00 | 54.63 | | -3.17 | 51.46 | | 74.00 | 54.00 | -2.54 | Peak | | | | |
| 1436.00 | 53.21 | | -2.48 | 50.74 | | 74.00 | 54.00 | -3.26 | Peak | | | | |
| 3435.00 | 42.35 | | 5.88 | 48.23 | | 74.00 | 54.00 | -5.77 | Peak | | | | |
| 4215.00 | 40.78 | | 7.73 | 48.51 | | 74.00 | 54.00 | -5.49 | Peak | | | | |
| 4950.00 | 39.88 | | 9.80 | 49.68 | | 74.00 | 54.00 | -4.32 | Peak | | | | |
| | | | | | | | • | | | | | | |

| | 966 Chamber_B at 3Meter / Vertical | | | | | | | | | | | | |
|--------------------|------------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|-------|----------------------|----------------|--------|--|--|--|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | | Limit-AV (dBuV/m) | Margin (dB) | Remark | | | | |
| 1062.00 | 54.67 | | -3.68 | 50.99 | | 74.00 | 54.00 | -3.01 | Peak | | | | |
| 1214.00 | 53.58 | | -3.19 | 50.39 | | 74.00 | 54.00 | -3.61 | Peak | | | | |
| 1466.00 | 53.51 | | -2.38 | 51.13 | | 74.00 | 54.00 | -2.87 | Peak | | | | |
| 3240.00 | 41.91 | | 5.67 | 47.58 | | 74.00 | 54.00 | -6.42 | Peak | | | | |
| 4095.00 | 40.32 | | 7.32 | 47.64 | | 74.00 | 54.00 | -6.36 | Peak | | | | |
| 5010.00 | 39.63 | | 9.94 | 49.57 | | 74.00 | 54.00 | -4.43 | Peak | | | | |

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|--------------|--|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/20 |
| Test Mode | IEEE 802.11n HT20 TX / CH Low / Antenna (2) | Temp. & Humidity | 22°C, 57% |

| | 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | | | | |
|--------------------|--------------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|--------|--|--|--|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | | | | |
| 1076.00 | 54.78 | | -3.64 | 51.14 | | 74.00 | 54.00 | -2.86 | Peak | | | | |
| 1252.00 | 54.84 | | -3.07 | 51.77 | | 74.00 | 54.00 | -2.23 | Peak | | | | |
| 1428.00 | 54.01 | | -2.50 | 51.51 | | 74.00 | 54.00 | -2.49 | Peak | | | | |
| 3105.00 | 42.52 | | 5.52 | 48.05 | | 74.00 | 54.00 | -5.95 | Peak | | | | |
| 3765.00 | 41.08 | | 6.51 | 47.59 | | 74.00 | 54.00 | -6.41 | Peak | | | | |
| 4860.00 | 38.57 | | 9.58 | 48.14 | | 74.00 | 54.00 | -5.86 | Peak | | | | |
| | | | | | | | | | | | | | |
| | 966 Chamber_B at 3Meter / Vertical | | | | | | | | | | | | |
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | | | | |
| I | | 1 | | l | I | | l | l | 1 | | | | |

| | 900 Chamber_B at Sweter / Vertical | | | | | | | | | | | |
|--------------------|------------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|--------|--|--|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | | | |
| 1102.00 | 53.98 | | -3.55 | 50.43 | | 74.00 | 54.00 | -3.57 | Peak | | | |
| 1270.00 | 53.43 | | -3.01 | 50.42 | | 74.00 | 54.00 | -3.58 | Peak | | | |
| 1382.00 | 53.26 | | -2.65 | 50.61 | | 74.00 | 54.00 | -3.39 | Peak | | | |
| 3210.00 | 42.34 | | 5.64 | 47.98 | | 74.00 | 54.00 | -6.02 | Peak | | | |
| 4245.00 | 40.85 | | 7.83 | 48.67 | | 74.00 | 54.00 | -5.33 | Peak | | | |
| 4860.00 | 39.14 | | 9.58 | 48.72 | | 74.00 | 54.00 | -5.28 | Peak | | | |

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

74.00

74.00

74.00

74.00

52.17

54.00

54.00

54.00

54.00

-1.83

-6.43

-6.22

-4.50

AVG

Peak

Peak

Peak

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|--------------|---|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/20 |
| Test Mode | IEEE 802.11n HT20 TX / CH Middle / Antenna (2) | Temp. & Humidity | 22°C, 57% |

| | 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | | |
|--------------------|--------------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|--------|--|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | | |
| 1066.00 | 54.42 | | -3.67 | 50.75 | | 74.00 | 54.00 | -3.25 | Peak | | |
| 1264.00 | 53.76 | | -3.03 | 50.73 | | 74.00 | 54.00 | -3.27 | Peak | | |
| 1430.00 | 53.02 | | -2.50 | 50.52 | | 74.00 | 54.00 | -3.48 | Peak | | |
| 3195.00 | 41.73 | | 5.62 | 47.35 | | 74.00 | 54.00 | -6.65 | Peak | | |
| 4365.00 | 40.61 | | 8.23 | 48.84 | | 74.00 | 54.00 | -5.16 | Peak | | |
| 5085.00 | 40.19 | | 10.06 | 50.25 | | 74.00 | 54.00 | -3.75 | Peak | | |
| | | | | | | | | | | | |
| | | 9 | 66 Chaml | ber_B at 3 | 3Meter / V | ertical | | | | | |
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | | |
| 1002.00 | 54.36 | | -3.87 | 50.49 | | 74.00 | 54.00 | -3.51 | Peak | | |
| 1190.00 | 54.56 | | -3.27 | 51.29 | | 74.00 | 54.00 | -2.71 | Peak | | |
| 1330.00 | 54.33 | | -2.82 | 51.51 | | 74.00 | 54.00 | -2.49 | Peak | | |

Remark:

2286.00

3225.00

4140.00

4920.00

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.

3.16

5.65

7.47

9.72

3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

62.94

47.57

47.78

49.50

- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

59.78

41.92

40.31

39.78

49.01

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

CH High / Antenna (2)

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|--------------|------------------------|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/20 |
| Took Mode | IEEE 802.11n HT20 TX / | Tampa O Humiditu | 22°C 570/ |

Report No.: T120315033-RP1

22°C, 57%

Temp. & Humidity

74.00

74.00

54.00

54.00

-5.19

-4.60

Peak

Peak

| | | 96 | 6 Chambe | er_B at 3N | /leter / Ho | rizontal | | | |
|--------------------|--------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|--------|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1030.00 | 54.39 | | -3.78 | 50.61 | | 74.00 | 54.00 | -3.39 | Peak |
| 1232.00 | 54.29 | | -3.13 | 51.16 | | 74.00 | 54.00 | -2.84 | Peak |
| 1386.00 | 53.07 | | -2.64 | 50.44 | | 74.00 | 54.00 | -3.56 | Peak |
| 3090.00 | 42.01 | | 5.51 | 47.52 | | 74.00 | 54.00 | -6.48 | Peak |
| 4395.00 | 40.18 | | 8.34 | 48.52 | | 74.00 | 54.00 | -5.48 | Peak |
| 4935.00 | 40.07 | | 9.76 | 49.83 | | 74.00 | 54.00 | -4.17 | Peak |
| | | | | | | | | | |
| | | 9 | 66 Chaml | ber_B at 3 | 3Meter / V | ertical | | | |
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1030.00 | 55.58 | | -3.78 | 51.80 | | 74.00 | 54.00 | -2.20 | Peak |
| 1154.00 | 54.56 | | -3.38 | 51.17 | | 74.00 | 54.00 | -2.83 | Peak |
| 1334.00 | 54.40 | | -2.80 | 51.59 | | 74.00 | 54.00 | -2.41 | Peak |
| 3225.00 | 41.60 | | 5.65 | 47.25 | | 74.00 | 54.00 | -6.75 | Peak |

Remark:

4365.00

5025.00

Test Mode

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.

8.23

9.96

3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

48.81

49.40

- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor Margin = Result – Limit

40.57

39.44

Remark Peak = Result(PK) - Limit(AV)

Report No.: T120315033-RP1

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|---------------------|--|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/20 |
| Test Mode | IEEE 802.11n HT40 TX / CH Low / Antenna (2) | Temp. & Humidity | 22°C, 57% |

| | 966 Chamber_B at 3Meter / Horizontal | | | | | | | | | |
|--------------------|--------------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|--------|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | |
| 1082.00 | 54.81 | | -3.62 | 51.19 | | 74.00 | 54.00 | -2.81 | Peak | |
| 1214.00 | 53.67 | | -3.19 | 50.48 | | 74.00 | 54.00 | -3.52 | Peak | |
| 1372.00 | 53.23 | | -2.68 | 50.55 | | 74.00 | 54.00 | -3.45 | Peak | |
| 3225.00 | 41.41 | | 5.65 | 47.07 | | 74.00 | 54.00 | -6.93 | Peak | |
| 3885.00 | 41.46 | | 6.76 | 48.22 | | 74.00 | 54.00 | -5.78 | Peak | |
| 4995.00 | 39.21 | | 9.91 | 49.12 | | 74.00 | 54.00 | -4.88 | Peak | |

| | 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|--------------------|------------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|--------|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | |
| 1036.00 | 54.26 | | -3.76 | 50.50 | | 74.00 | 54.00 | -3.50 | Peak | |
| 1208.00 | 53.97 | | -3.21 | 50.76 | | 74.00 | 54.00 | -3.24 | Peak | |
| 1394.00 | 52.88 | | -2.61 | 50.27 | | 74.00 | 54.00 | -3.73 | Peak | |
| 3225.00 | 41.97 | | 5.65 | 47.63 | | 74.00 | 54.00 | -6.37 | Peak | |
| 3990.00 | 40.18 | | 6.98 | 47.16 | | 74.00 | 54.00 | -6.84 | Peak | |
| 4860.00 | 39.76 | | 9.58 | 49.34 | | 74.00 | 54.00 | -4.66 | Peak | |

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

Margin = Result - Limit

Remark Peak = Result(PK) - Limit(AV)

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|--------------|---|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/20 |
| Test Mode | IEEE 802.11n HT40 TX / CH Middle / Antenna (2) | Temp. & Humidity | 22°C, 57% |

| | 966 Chamber_B at 3Meter / Horizontal | | | | | | | | |
|--------------------|--------------------------------------|--------------------------|--------------------------------|-----------------------|--|-------|----------------------|----------------|--------|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | | | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1040.00 | 54.21 | | -3.75 | 50.45 | | 74.00 | 54.00 | -3.55 | Peak |
| 1154.00 | 54.17 | | -3.38 | 50.78 | | 74.00 | 54.00 | -3.22 | Peak |
| 1274.00 | 53.77 | | -3.00 | 50.77 | | 74.00 | 54.00 | -3.23 | Peak |
| 3165.00 | 41.61 | | 5.59 | 47.20 | | 74.00 | 54.00 | -6.80 | Peak |
| 4425.00 | 40.37 | | 8.44 | 48.81 | | 74.00 | 54.00 | -5.19 | Peak |
| 4935.00 | 39.74 | | 9.76 | 49.50 | | 74.00 | 54.00 | -4.50 | Peak |
| | | | | | | | | | |
| | 966 Chamber_B at 3Meter / Vertical | | | | | | | | |
| | D | D !! | C = === = = 1: = == | | | | | | |

| | 966 Chamber_B at 3Meter / Vertical | | | | | | | | | |
|--------------------|------------------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|--------|--|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark | |
| 1024.00 | 55.03 | | -3.80 | 51.23 | | 74.00 | 54.00 | -2.77 | Peak | |
| 1188.00 | 53.61 | | -3.27 | 50.33 | | 74.00 | 54.00 | -3.67 | Peak | |
| 1394.00 | 53.09 | | -2.61 | 50.47 | | 74.00 | 54.00 | -3.53 | Peak | |
| 2390.00 | 60.52 | 49.90 | 3.50 | 64.02 | 53.40 | 74.00 | 54.00 | -0.60 | AVG | |
| 3255.00 | 41.40 | | 5.69 | 47.08 | | 74.00 | 54.00 | -6.92 | Peak | |
| 3885.00 | 39.98 | | 6.76 | 46.74 | | 74.00 | 54.00 | -7.26 | Peak | |
| 4935.00 | 39.82 | | 9.76 | 49.58 | | 74.00 | 54.00 | -4.42 | Peak | |

Remark

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor

Margin = Result - Limit

 $Remark\ Peak = Result(PK) - Limit(AV)$

74.00

74.00

74.00

74.00

54.00

54.00

54.00

54.00

-2.91

-6.86

-5.22

-4.77

Peak

Peak

Peak

Peak

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|--------------|---|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/20 |
| Test Mode | IEEE 802.11n HT40 TX / CH High / Antenna (2) | Temp. & Humidity | 22°C, 57% |

| | | 96 | 6 Chambe | er_B at 3N | Meter / Ho | rizontal | | | |
|--------------------|--------------------------|--------------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|--------|
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1088.00 | 54.20 | | -3.60 | 50.60 | | 74.00 | 54.00 | -3.40 | Peak |
| 1372.00 | 53.25 | | -2.68 | 50.57 | | 74.00 | 54.00 | -3.43 | Peak |
| 1462.00 | 53.25 | | -2.39 | 50.86 | | 74.00 | 54.00 | -3.14 | Peak |
| 3240.00 | 41.71 | | 5.67 | 47.38 | | 74.00 | 54.00 | -6.62 | Peak |
| 4290.00 | 39.89 | | 7.98 | 47.87 | | 74.00 | 54.00 | -6.13 | Peak |
| 4950.00 | 39.99 | | 9.80 | 49.78 | | 74.00 | 54.00 | -4.22 | Peak |
| | | | | | | | | | |
| | | 9 | 66 Chaml | per_B at 3 | 3Meter / V | ertical | | | |
| Frequency (MHz) | Reading- PK (dBuV) | Reading- AV (dBuV) | Correction Factor (dB/m) | Result-PK (dBuV/m) | Result-AV (dBuV/m) | Limit-PK (dBuV/m) | Limit-AV (dBuV/m) | Margin (dB) | Remark |
| 1036.00 | 54.18 | | -3.76 | 50.42 | | 74.00 | 54.00 | -3.58 | Peak |
| 1198.00 | 53.91 | | -3.24 | 50.67 | | 74.00 | 54.00 | -3.33 | Peak |

Remark:

1406.00

3195.00

4530.00

4965.00

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit.

-2.57

5.62

8.76

9.83

3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

51.09

47.14

48.78

49.23

- 4. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 5. Result = Reading + Correction Factor Margin = Result – Limit

53.66

41.52

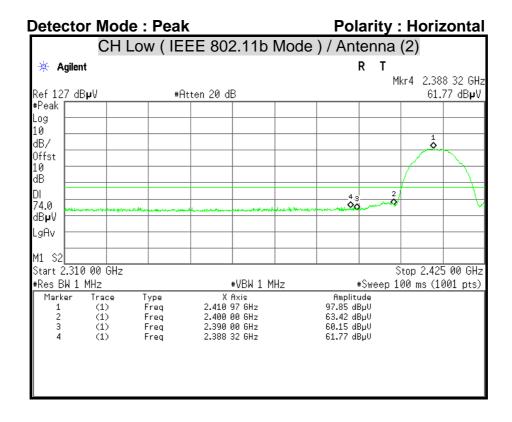
40.02

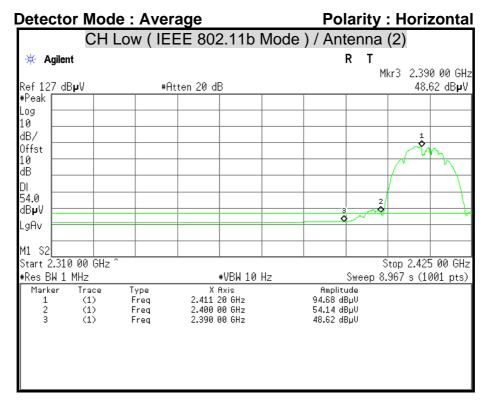
39.40

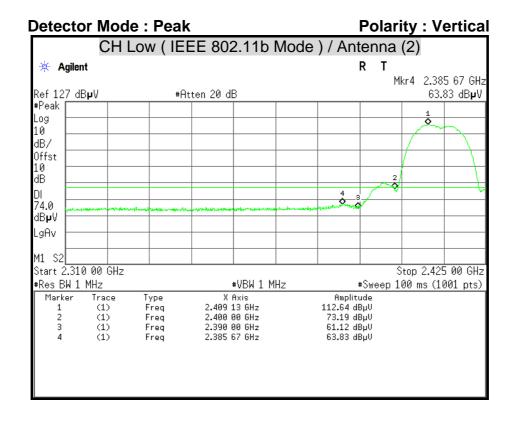
Remark Peak = Result(PK) - Limit(AV)

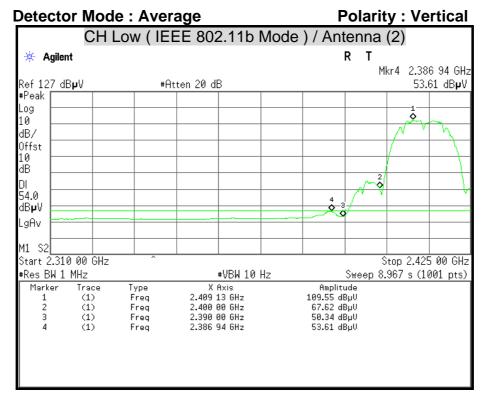
Report No.: T120315033-RP1

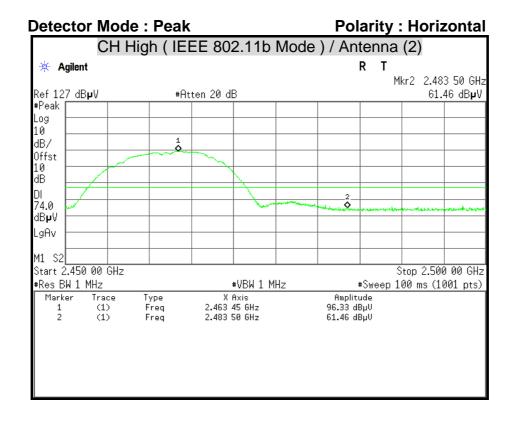
Restricted Band Edges

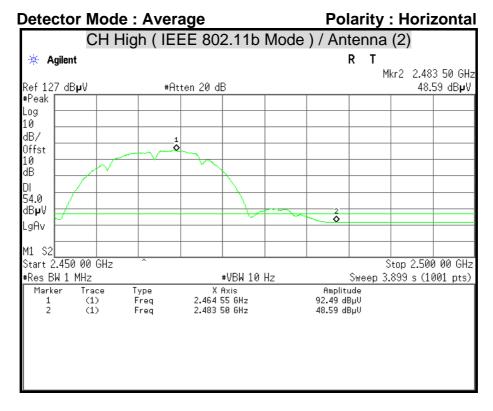


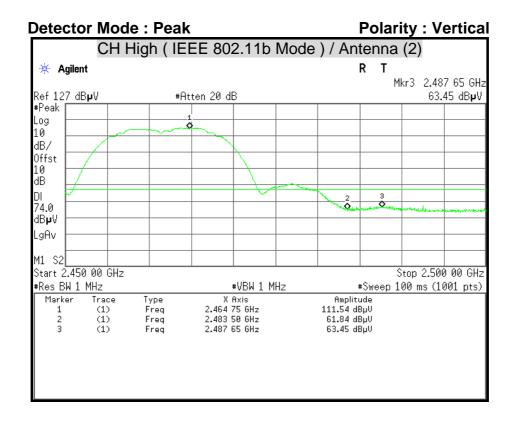


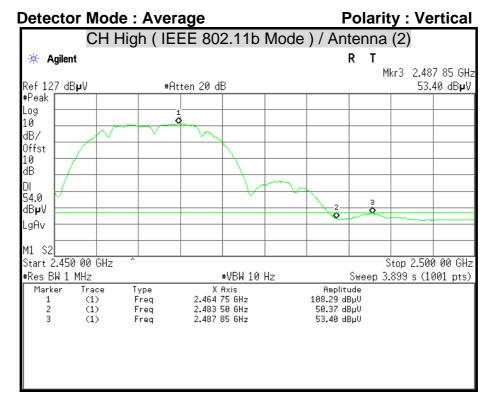


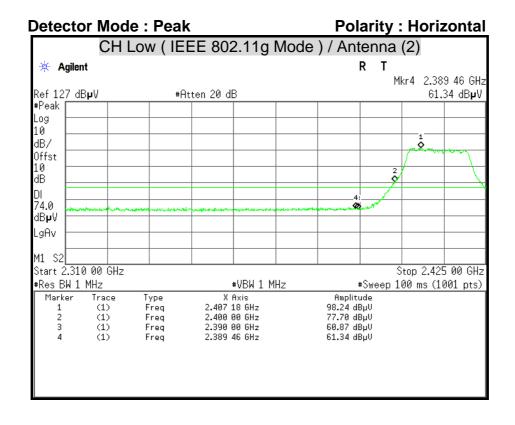


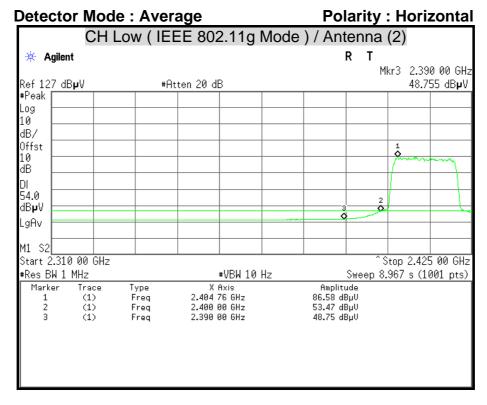


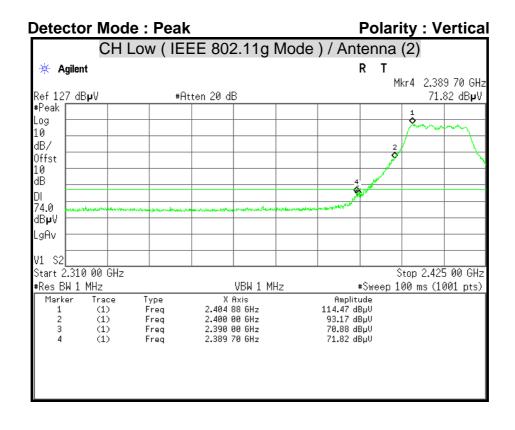


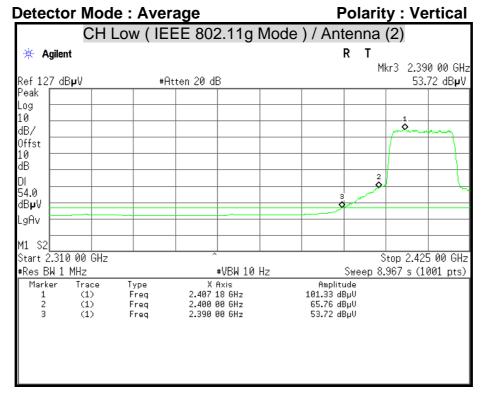


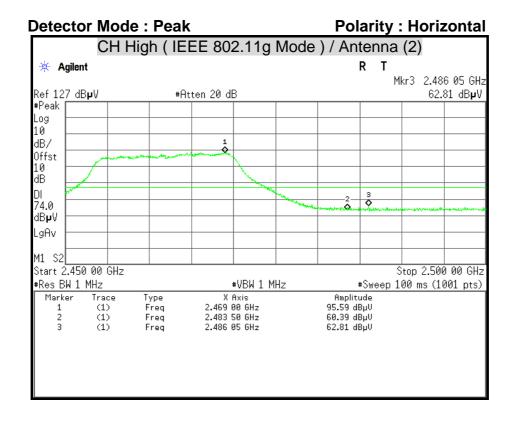


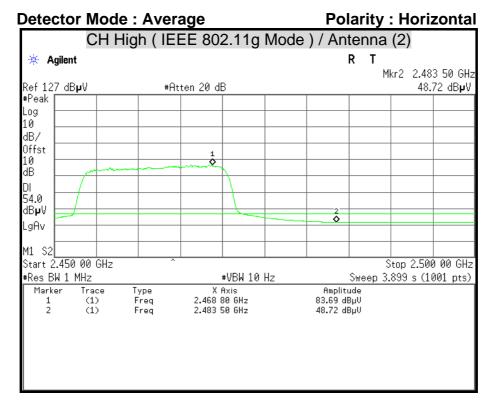


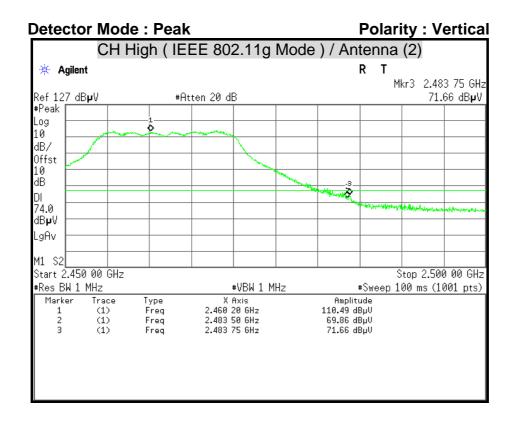


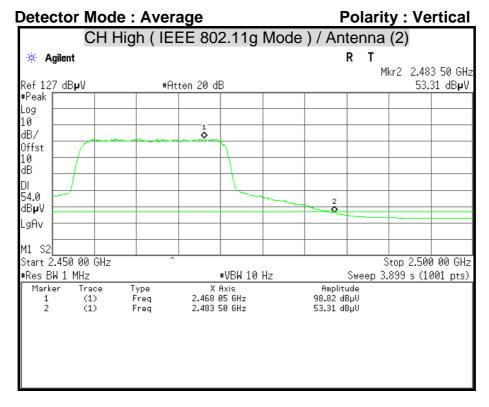


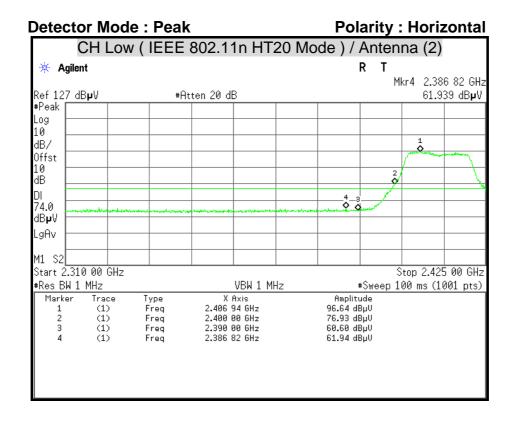


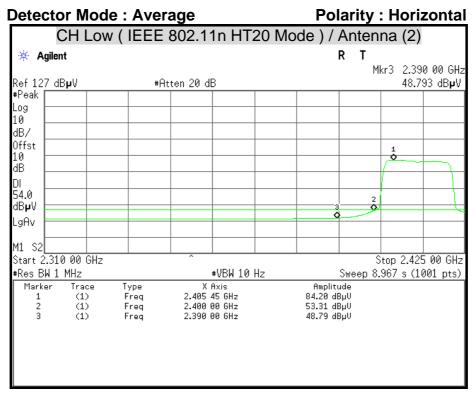


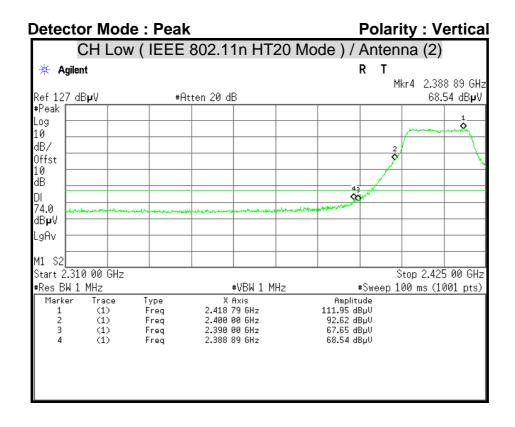


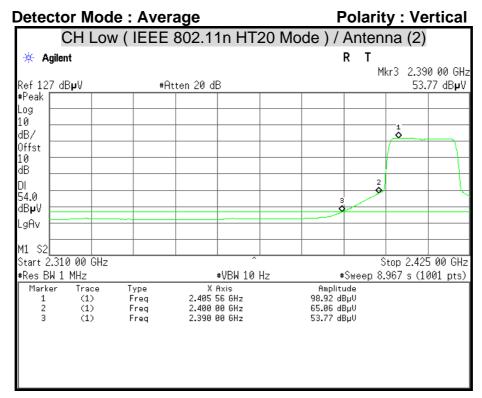


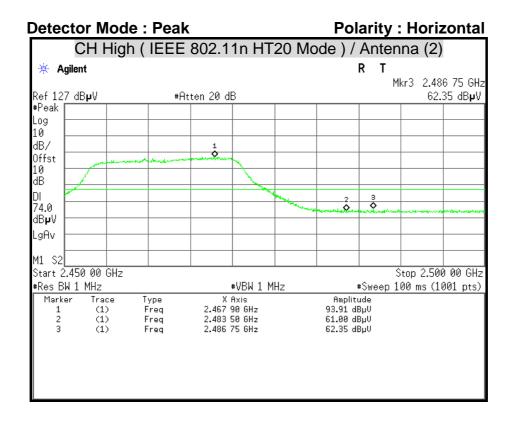


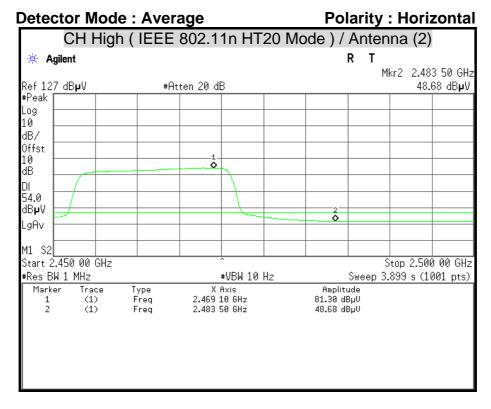


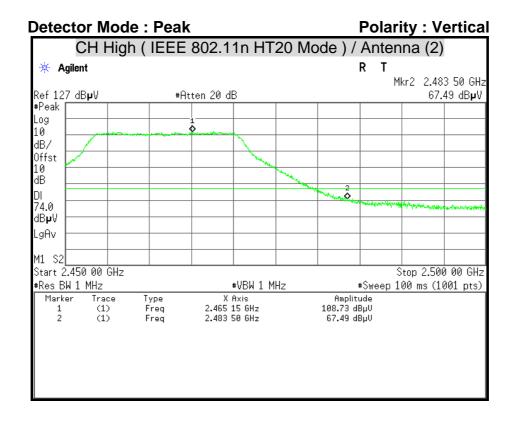


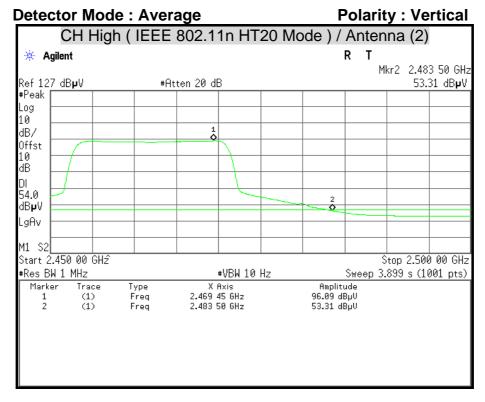


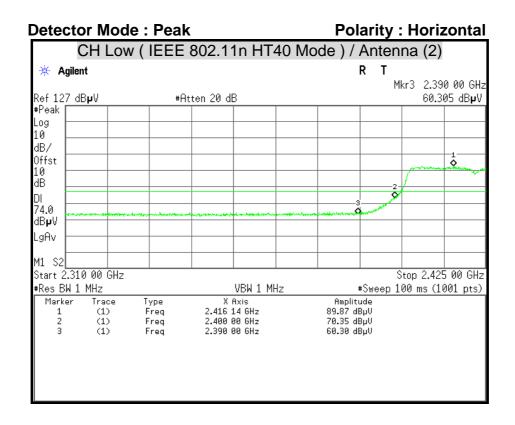


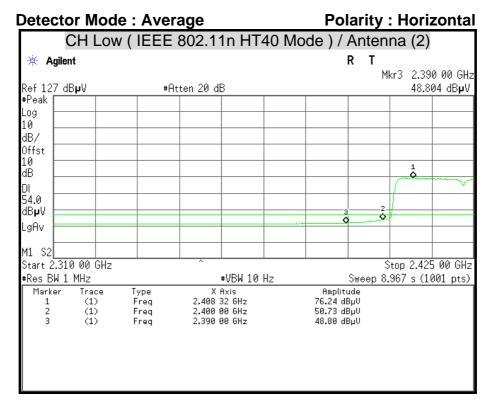


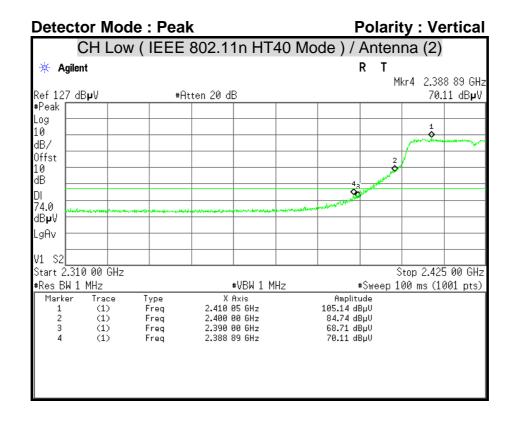


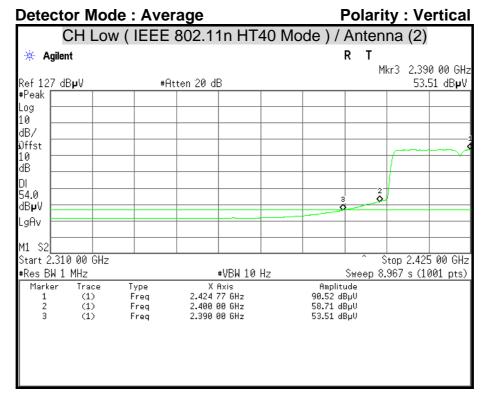


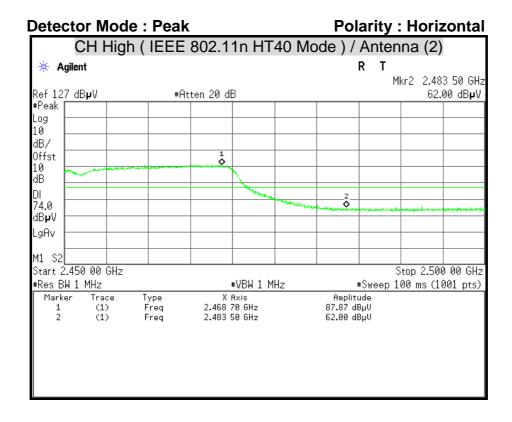


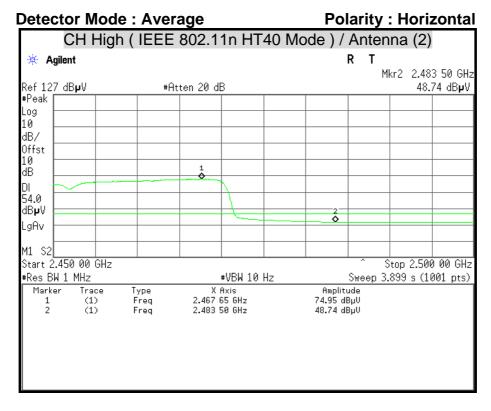


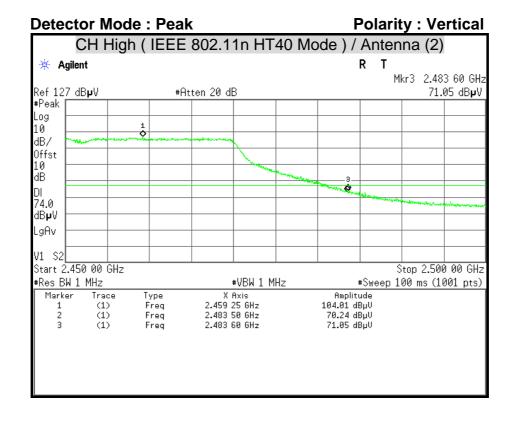


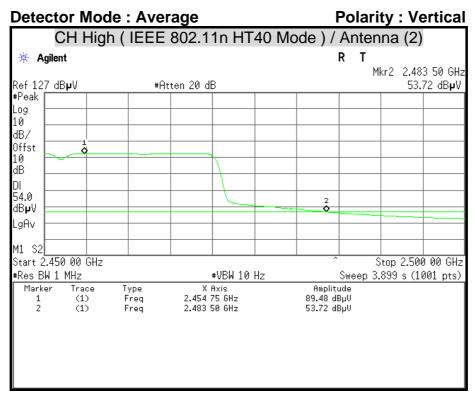












7.6 CONDUCTED EMISSION

LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator 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, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

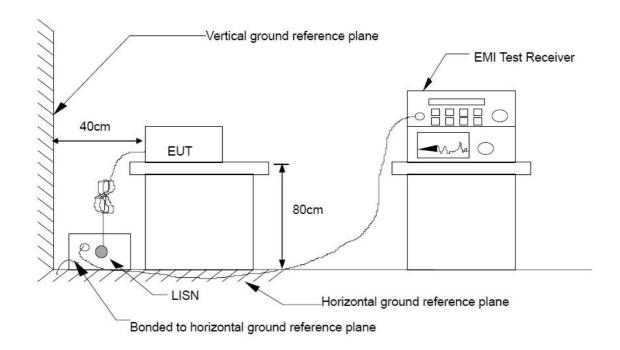
| Frequency Range | Conducted Limit (dBµv) | | | | |
|-----------------|------------------------|----------|--|--|--|
| (MHz) | Quasi-peak | Average | | | |
| 0.15 - 0.50 | 66 to 56 | 56 to 46 | | | |
| 0.50 - 5.00 | 56 | 46 | | | |
| 5.00 - 30.0 | 60 | 50 | | | |

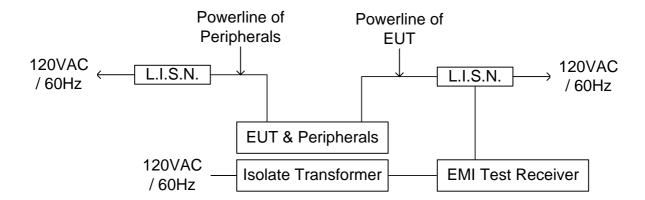
TEST EQUIPMENT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due | |
|-------------------|-----------------|-----------|---------------|--------------------|--|
| L.I.S.N | SCHWARZBECK | NSLK 8127 | 8127-465 | 08/09/2012 | |
| L.I.S.N | SCHWARZBECK | NSLK 8127 | 8127-473 | 03/12/2013 | |
| EMI Receiver | ROHDE & SCHWARZ | ESCS 30 | 835418/008 | 10/20/2012 | |
| Pulse Limiter | ROHDE & SCHWARZ | ESH3-Z2 | 100117 | 09/14/2012 | |

Remark: Each piece of equipment is scheduled for calibration once a year.

TEST SETUP





TEST PROCEDURE

The basic test procedure was in accordance with ANSI C63.4:2003.

The test procedure is performed in a $4m \times 3m \times 2.4m$ (L×W×H) shielded room.

The EUT along with its peripherals were placed on a 1.0m (W) \times 1.5m (L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.

The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.

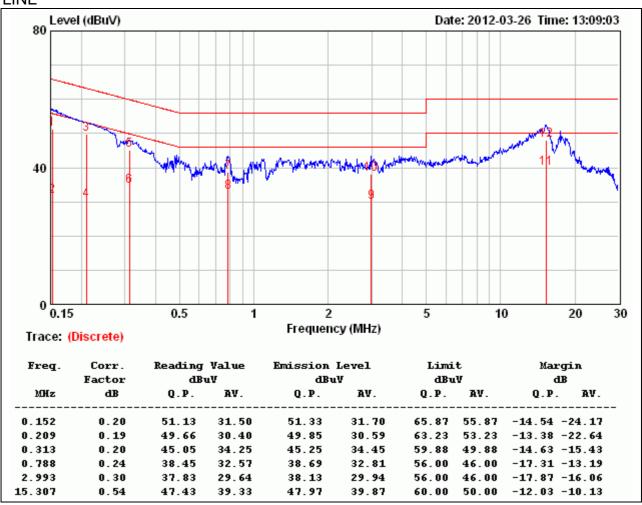
The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN is 0.8 m. Where a mains flexible cord was provided by the manufacturer shall be 1 m long, or if in excess of 1 m, the excess cable was folded back and forth as far as possible so as to form a bundle not exceeding 0.4 m in length.

Report No.: T120315033-RP1

TEST RESULTS

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|---------------------|---------------|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/26 |
| Test Mode | TX Mode | Temp. & Humidity | 22°C, 62% |

LINE

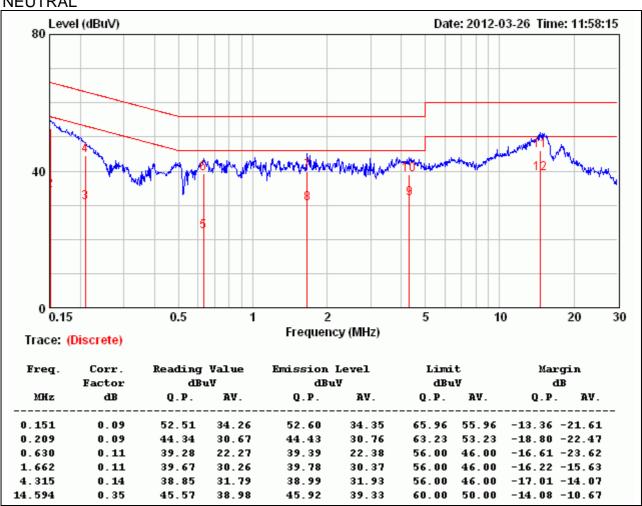


Remark:

- 1. Correction Factor = Insertion loss + Cable loss
- 2. Emission level = Reading Value + Correction factor
- 3. Margin value = Emission level Limit value

| Product Name | PCI-RF module | Test By | Rueyyan Lin |
|---------------------|---------------|------------------|-------------|
| Test Model | MB92-EKI6340 | Test Date | 2012/03/26 |
| Test Mode | TX Mode | Temp. & Humidity | 22°C, 62% |

NEUTRAL



Remark:

- 1. Correction Factor = Insertion loss + Cable loss
- 2. Emission level = Reading Value + Correction factor
- 3. Margin value = Emission level Limit value