FCC RF Test Report

APPLICANT : Senga Na Lenga Limited Liability Company

EQUIPMENT : Tablet MODEL NAME : SR87CV

FCC ID : 2ACBF-6708

STANDARD : FCC Part 15 Subpart E §15.407

CLASSIFICATION: (NII) Unlicensed National Information Infrastructure

The testing was completed on Jun. 03, 2015. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL INC.

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

Report No. : FR520216-01E Report Version : Rev. 02 Page Number : 1 of 35

Testing Laboratory 1190

TABLE OF CONTENTS

| RE | EVISION HISTORY | 3 |
|----|--|-------------|
| SU | UMMARY OF TEST RESULT | 4 |
| 1 | GENERAL DESCRIPTION | 5 |
| | 1.1 Applicant | 5 5 5 |
| 2 | TEST CONFIGURATION OF EQUIPMENT UNDER TEST | 7 |
| | 2.1 Carrier Frequency and Channel 2.2 Pre-Scanned RF Power 2.3 Test Mode 2.4 Connection Diagram of Test System 2.5 Support Unit used in test configuration and system 2.6 EUT Operation Test Setup 2.7 Measurement Results Explanation Example | 8 |
| 3 | TEST RESULT | 12 |
| | 3.1 6dB Bandwidth Measurement | |
| | 3.7 Automatically Discontinue Transmission 3.8 Antenna Requirements | |
| 4 | · | |
| 5 | UNCERTAINTY OF EVALUATION | 35 |
| ΑP | PPENDIX A. CONDUCTED TEST RESULTS | |
| ΑP | PPENDIX B. RADIATED TEST RESULTS | |

Report No. : FR520216-01E
Report Version : Rev. 02
Page Number : 2 of 35

REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|--------------|---------|--|---------------|
| FR520216-01E | Rev. 01 | Initial issue of report | May 29, 2015 |
| FR520216-01E | Rev. 02 | Adding test data of duty cycle in section 3.4.7 and Automatically Discontinue Transmission in section 3.7.3. | Jun. 03, 2015 |
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Report No. : FR520216-01E Report Version : Rev. 02 Page Number : 3 of 35

SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description | Limit | Result | Remark |
|-------------------|----------------------------------|---|----------------------------------|--------|--|
| 3.1 | 15.403(i) | 6dB Bandwidth | > 500kHz | Pass | - |
| 3.2 | 15.407(a) | 15.407(a) Maximum Conducted Output ≤ 30 dBm F | | Pass | - |
| 3.3 | 15.407(a) Power Spectral Density | | ≤ 30 dBm/500kHz | Pass | - |
| 3.4 | 15.407(b) | Unwanted Emissions | ≤ -17, -27 dBm/MHz &15.209(a) | Pass | Under limit 0.56 dB at 5714.680 MHz |
| 3.5 | 15.207 | AC Conducted Emission | 15.207(a) | Pass | Under limit 11.50 dB at 1.014 MHz and 1.278 MHz |
| 3.6 | 15.407(g) | Frequency Stability | Within Operation Band | Pass | - |
| 3.7 | 15.407(c) | Automatically Discontinue Transmission | Discontinue Transmission Pass | | - |
| 3.8 | 15.203 & 15.407(a) | Antenna Requirement | N/A | Pass | - |

Report No. : FR520216-01E
Report Version : Rev. 02
Page Number : 4 of 35

1 General Description

1.1 Applicant

Senga Na Lenga Limited Liability Company

3900 N. Causeway Blvd.

Suite 1200

Metairie, Louisiana 70002

1.2 Feature of Equipment Under Test

| Product Feature | | | | | | |
|---------------------------------|-----------------------------|--|--|--|--|--|
| Equipment | Tablet | | | | | |
| Model Name | SR87CV | | | | | |
| FCC ID | 2ACBF-6708 | | | | | |
| | WLAN 11b/g/n HT20 | | | | | |
| EUT supports Radios application | WLAN 11a/n HT20/HT40 | | | | | |
| EOT Supports Radios application | WLAN 11ac VHT20/VHT40/VHT80 | | | | | |
| | Bluetooth v4.1 EDR/LE | | | | | |

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.3 Product Specification of Equipment Under Test

| Product Specification subjective to this standard | | | | | | |
|--|--|--|--|--|--|--|
| Tx/Rx Channel Frequency Range | 5725 MHz ~ 5850 MHz | | | | | |
| | 802.11a: 16.06 dBm / 0.0404 W | | | | | |
| | 802.11n HT20 : 16.13 dBm / 0.0410 W | | | | | |
| Maximum Quinut Bower | 802.11n HT40 : 16.43 dBm / 0.0440 W | | | | | |
| Maximum Output Power | 802.11ac VHT20: 13.98 dBm / 0.0250 W | | | | | |
| | 802.11ac VHT40: 13.80 dBm / 0.0240 W | | | | | |
| | 802.11ac VHT80: 13.73 dBm / 0.0236 W | | | | | |
| Maximum Output Power Type of Modulation Antenna Type | 802.11a/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) | | | | | |
| Type of Modulation | 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / | | | | | |
| | 256QAM) | | | | | |
| Antenna Type | Fixed Internal Antenna | | | | | |
| Antenna Gain | 0.40 dBi | | | | | |

1.4 Modification of EUT

No modifications are made to the EUT during all test items.

Report No. : FR520216-01E Report Version : Rev. 02 Page Number : 5 of 35

1.5 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

| Test Site | SPORTON INTERNATIONAL INC. | SPORTON INTERNATIONAL INC. | | | | | |
|--------------------|---|----------------------------|--|--|--|--|--|
| | No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, | | | | | | |
| Took Site Legation | Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. | | | | | | |
| Test Site Location | TEL: +886-3-327-3456 | | | | | | |
| | FAX: +886-3-328-4978 | | | | | | |
| Tool Cita No | Sporton Site No. | | | | | | |
| Test Site No. | TH02-HY | CO05-HY | | | | | |

Note: The test site complies with ANSI C63.4 2009 requirement.

| Test Site | SPORTON INTERNATIONAL INC. | | | | |
|--------------------|---|--|--|--|--|
| | No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. | | | | |
| Test Site Location | Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. | | | | |
| | TEL: +886-3-327-0855 | | | | |
| Tool Cita No | Sporton Site No. | | | | |
| Test Site No. | 03CH11-HY | | | | |

Note: The test site complies with ANSI C63.4 2009 requirement.

1.6 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v01
- ANSI C63.10-2009

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. FCC permits the use of the 1.5 meter table as an alternative in C63.10-2013 through inquiry tracking number 961829.
- 3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

Report No. : FR520216-01E Report Version : Rev. 02 Page Number : 6 of 35

2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.

2.1 Carrier Frequency and Channel

| Frequency Band | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|---------------------|---------|----------------|---------|----------------|
| | 149 | 5745 | 157 | 5785 |
| 5725-5850 MHz | 151 | 5755 | 159 | 5795 |
| Band 4 (U-NII-3) | 153 | 5765 | 161 | 5805 |
| | 155 | 5775 | 165 | 5825 |

Note: The above Frequency and Channel in boldface were 802.11n HT40.

Report No. : FR520216-01E Report Version : Rev. 02 Page Number : 7 of 35

2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test in the following tables. Final Output Power equals to Measured Output Power adds the duty factor.

| 5GHz 802.11a mode | | | | | | | | | | |
|---|--------------------|-------|-------|-------|-------|-------|---------|---------|--|--|
| Data Rate (MHz) 6M bps 9M bps 12M bps 18M bps 24M bps 36M bps | | | | | | | 48M bps | 54M bps | | |
| Average Power (dBm) | <mark>16.06</mark> | 15.99 | 16.06 | 16.03 | 15.77 | 16.05 | 16.00 | 16.03 | | |

| 5GHz 802.11n HT20 mode | | | | | | | | | |
|---|--------------------|-------|-------|-------|-------|-------|-------|-------|--|
| Data Rate (MHz) MCS0 MCS1 MCS2 MCS3 MCS4 MC | | | | | | | MCS6 | MCS7 | |
| Average Power (dBm) | <mark>16.13</mark> | 15.81 | 15.93 | 15.59 | 15.87 | 16.12 | 16.05 | 16.12 | |

| 5GHz 802.11n HT40 mode | | | | | | | | | |
|--|--------------------|-------|-------|-------|-------|-------|-------|-------|--|
| Data Rate (MHz) MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6 M | | | | | | | | MCS7 | |
| Average Power (dBm) | <mark>16.43</mark> | 16.34 | 16.32 | 16.34 | 16.34 | 16.31 | 16.39 | 16.11 | |

| 5GHz 802.11ac VHT20 mode | | | | | | | | | | |
|--------------------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Data Rate (MHz) | MCS 0 | MCS 1 | MCS 2 | MCS 3 | MCS 4 | MCS 5 | MCS 6 | MCS 7 | MCS 8 | |
| Average Power (dBm) | <mark>13.98</mark> | 13.42 | 13.50 | 13.50 | 13.45 | 13.46 | 13.42 | 13.32 | 13.49 | |

| 5GHz 802.11ac VHT40 mode | | | | | | | | | | |
|--------------------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Data Rate (MHz) | MCS 0 | MCS 1 | MCS 2 | MCS 3 | MCS 4 | MCS 5 | MCS 6 | MCS 7 | MCS 8 | MCS 9 |
| Average Power (dBm) | <mark>13.80</mark> | 13.21 | 13.13 | 13.06 | 13.09 | 13.31 | 13.39 | 13.38 | 13.27 | 12.96 |

| 5GHz 802.11ac VHT80 mode | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Data Rate (MHz) MCS 0 MCS 1 MCS 2 MCS 3 MCS 4 MCS 5 MCS 6 MCS 7 MCS 8 MCS 9 | | | | | | MCS 9 | | | | |
| Average Power (dBm) | 13.73 | 13.27 | 13.47 | 13.51 | 13.44 | 13.59 | 13.54 | 13.19 | 13.34 | 13.65 |

Report No. : FR520216-01E Report Version : Rev. 02 Page Number : 8 of 35

2.3 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table described in section 2.2.

| Modulation | Data Rate |
|----------------|-----------|
| 802.11a | 6 Mbps |
| 802.11n HT20 | MCS0 |
| 802.11n HT40 | MCS0 |
| 802.11ac VHT20 | MCS0 |
| 802.11ac VHT40 | MCS0 |
| 802.11ac VHT80 | MCS0 |

| AC Conducted | Mode 1 : WLAN (5GHz) Link + Bluetooth Link + MPEG4 + Earphone + SD Card + USB Cable |
|--------------|---|
| Emission | (Charging from Adapter) |

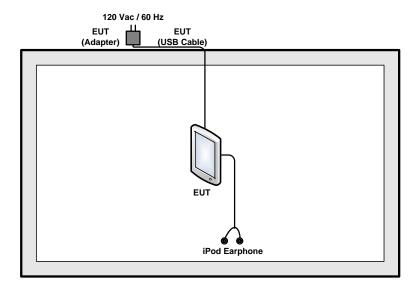
| | Ch # | Band IV:5725-5850 MHz | | | | |
|---|--------|-----------------------|--------------|--------------|--|--|
| | Ch. # | 802.11a | 802.11n HT20 | 802.11n HT40 | | |
| L | Low | 149 | 149 | 151 | | |
| M | Middle | 157 | 157 | - | | |
| Н | High | 165 | 165 | 159 | | |

| | Ch. # | Band IV:5725-5850 MHz | | | | |
|---|---------------|-----------------------|----------------|----------------|--|--|
| | 802.11ac VHT2 | | 802.11ac VHT40 | 802.11ac VHT80 | | |
| L | Low | 149 | 151 | - | | |
| M | Middle | 157 | - | 155 | | |
| Н | High | 165 | 159 | - | | |

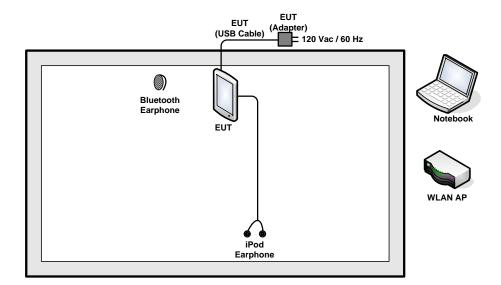
Report No. : FR520216-01E
Report Version : Rev. 02
Page Number : 9 of 35

2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



Report No. : FR520216-01E
Report Version : Rev. 02
Page Number : 10 of 35

2.5 Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord |
|------|-----------------------|---------------|-------------------|--|-------------------|--|
| 1. | Bluetooth Earphone | Sony Ericsson | MW600 | PY7DDA-2029 | N/A | N/A |
| 2. | WLAN AP | ASUS | RT-AC66U | MSQ-RTAC66U | N/A | Unshielded, 1.8 m |
| 3. | Notebook | DELL | Latitude E6320 | FCC DoC/ Contains FCC ID: QDS-BRCM1054 | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 4. | iPod Earphone | Apple | N/A | Verification | Unshielded, 1.0 m | N/A |
| 5. | SD Card | SanDisk | MicroSD HC | FCC DoC | N/A | N/A |

2.6 EUT Operation Test Setup

For WLAN function, programmed RF utility make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

2.7 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

 $Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$ = 4.2 + 10 = 14.2 (dB)

> Report No. : FR520216-01E Report Version : Rev. 02 Page Number : 11 of 35

3 Test Result

3.1 6dB Bandwidth Measurement

3.1.1 Description of 6dB Bandwidth

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

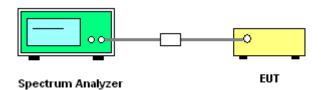
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
 Section C) Emission bandwidth for the band 5.725-5.85GHz
- 2. Set RBW = 100kHz.
- 3. Set the VBW \geq 3 x RBW.
- Detector = Peak.
- 5. Trace mode = max hold
- 6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
- 7. Measure and record the results in the test report.

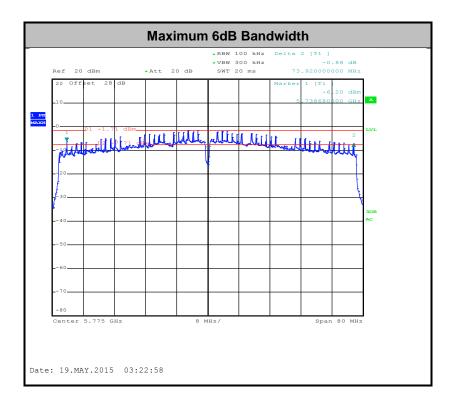
3.1.4 Test Setup



Report No. : FR520216-01E Report Version : Rev. 02 Page Number : 12 of 35

3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

Report No. : FR520216-01E Report Version : Rev. 02 Page Number : 13 of 35

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

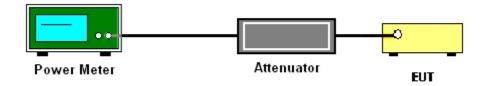
3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.

Method PM (Measurement using an RF average power meter):

- 1. Measurement is performed using a wideband RF power meter.
- 2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
- 3. Measure the average power of the transmitter, and the average power is corrected with duty factor, 10 log(1/x), where x is the duty cycle.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

Report No. : FR520216-01E Report Version : Rev. 02 Page Number : 14 of 35

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01. Section F) Maximum power spectral density.

Method SA-2

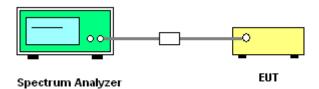
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- The testing follows Method SA-2 of FCC KDB 789033 D01 General UNII Test Procedures v01r03.
 - · Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 300 kHz.
 - Set VBW ≥ 1 MHz.
 - Number of points in sweep ≥ 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add 10 log(500kHz/RBW) to the test result.
 - Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

Report No. : FR520216-01E Report Version : Rev. 02 Page Number : 15 of 35

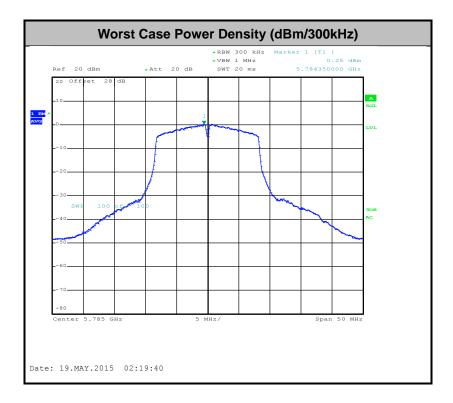
- 2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
- 3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



Report No. : FR520216-01E
Report Version : Rev. 02
Page Number : 16 of 35

3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part15.205.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5725-5850 MHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz (78.3dBμV/m); for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz (68.3dBμV/m).
- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

| Frequency | Field Strength | Measurement Distance |
|---------------|--------------------|----------------------|
| (MHz) | (microvolts/meter) | (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 |

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3}$$
 µV/m, where P is the eirp (Watts)

| EIRP (dBm) | Field Strength at 3m (dBµV/m) |
|------------|-------------------------------|
| -17 | 78.3 |
| - 27 | 68.3 |

(3) KDB789033 v01r03 H)2)c)(i) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

Report No. : FR520216-01E Report Version : Rev. 02 Page Number : 17 of 35

3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
 Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW ≥ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

| Antenna | Band | Duty Cycle(%) | T(us) | 1/T(kHz) | VBW Setting |
|---------|---------------------|---------------|-------|----------|--------------------|
| 1 | 802.11a | 97.62 | 4100 | 0.24 | 300Hz |
| 1 | 5GHz 802.11n HT20 | 96.92 | 3780 | 0.26 | 300Hz |
| 1 | 5GHz 802.11n HT40 | 94.39 | 1850 | 0.54 | 1kHz |
| 1 | 5GHz 802.11ac VHT20 | 97.45 | 3820 | 0.26 | 300Hz |
| 1 | 5GHz 802.11ac VHT40 | 94.39 | 1850 | 0.54 | 1kHz |
| 1 | 5GHz 802.11ac VHT80 | 88.89 | 880 | 1.14 | 3kHz |

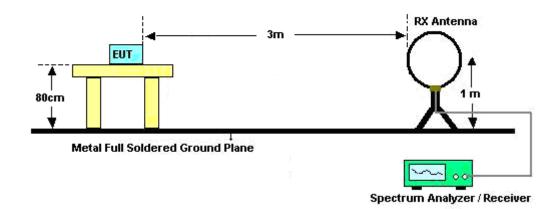
Report No. : FR520216-01E Report Version : Rev. 02 Page Number : 18 of 35

- 2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- 4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
- 7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

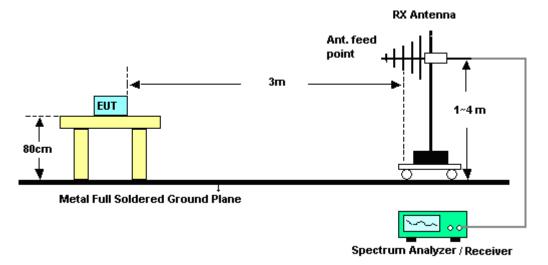
Report No. : FR520216-01E
Report Version : Rev. 02
Page Number : 19 of 35

3.4.4 Test Setup

For radiated emissions below 30MHz

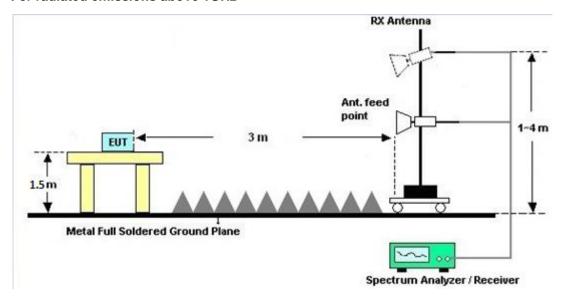


For radiated emissions from 30MHz to 1GHz



Report No. : FR520216-01E Report Version : Rev. 02 Page Number : 20 of 35

For radiated emissions above 1GHz



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

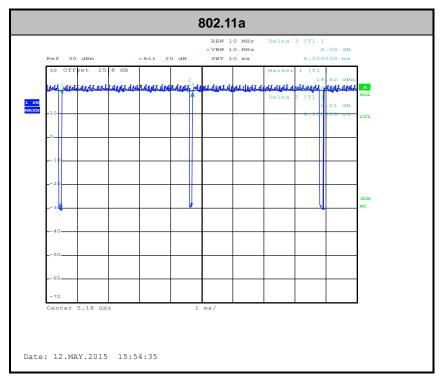
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

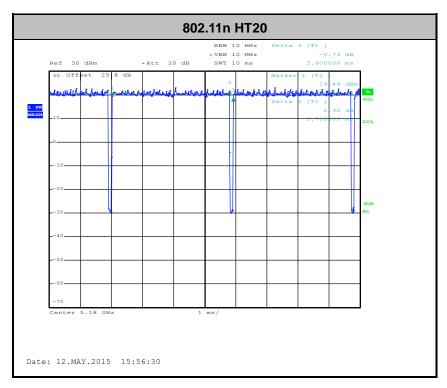
3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix A.

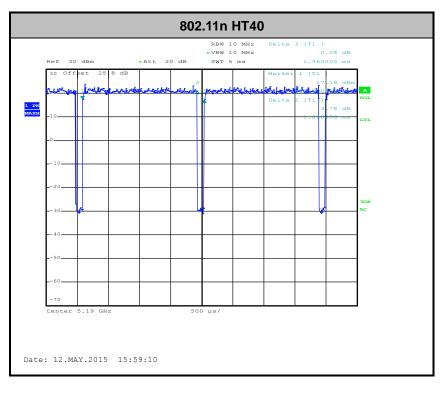
Report No. : FR520216-01E
Report Version : Rev. 02
Page Number : 21 of 35

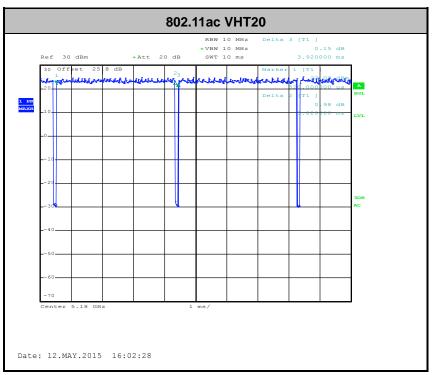
3.4.7 Duty Cycle



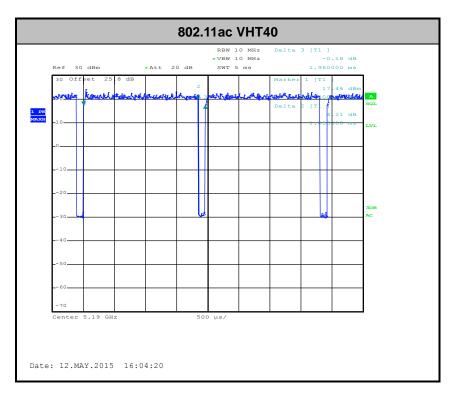


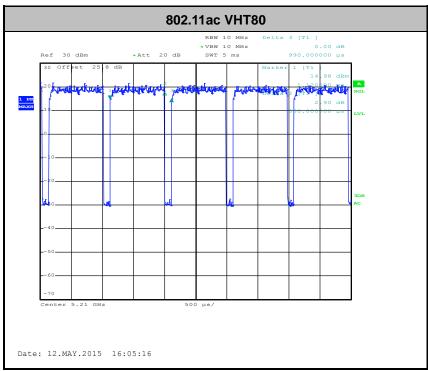
Report No. : FR520216-01E
Report Version : Rev. 02
Page Number : 22 of 35





Report No. : FR520216-01E
Report Version : Rev. 02
Page Number : 23 of 35





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

Please refer to Appendix A.

Report No. : FR520216-01E
Report Version : Rev. 02
Page Number : 24 of 35

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

| Frequency of emission (MHz) | Conducted limit (dBμV) | | | |
|-----------------------------|------------------------|-----------|--|--|
| Frequency of emission (MHZ) | Quasi-peak | Average | | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | | |
| 0.5-5 | 56 | 46 | | |
| 5-30 | 60 | 50 | | |

^{*}Decreases with the logarithm of the frequency.

3.5.2 Measuring Instruments

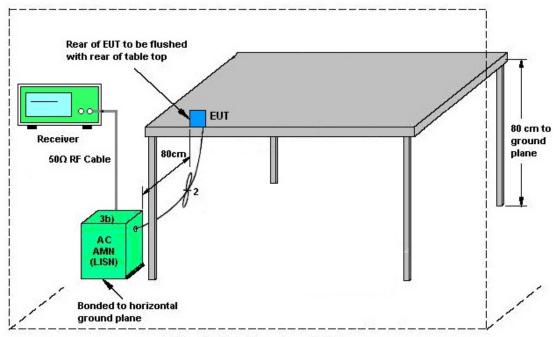
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

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

Report No. : FR520216-01E Report Version : Rev. 02 Page Number : 25 of 35

3.5.4 Test Setup



AMN = Artificial mains network (LISN)

AE = Associated equipment

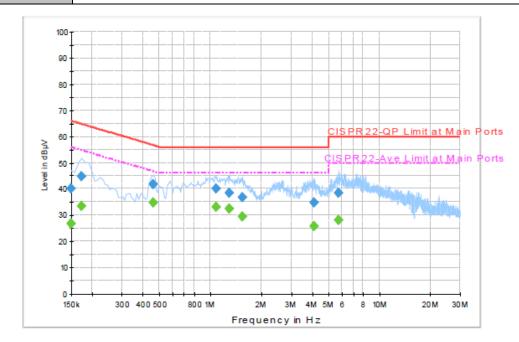
EUT = Equipment under test

ISN = Impedance stabilization network

Report No. : FR520216-01E Report Version : Rev. 02 Page Number : 26 of 35

3.5.5 Test Result of AC Conducted Emission

| Test Mode : | Mode 1 | Temperature : | 24~26 ℃ | | |
|-----------------|--|---------------------|----------------|--|--|
| Test Engineer : | Eric Jeng | Relative Humidity : | 48~50% | | |
| Test Voltage : | 120Vac / 60Hz | Phase : | Line | | |
| Eurotion Type | WLAN (5GHz) Link + Bluetooth Link + MPEG4 + Earphone + SD Card + USB | | | | |
| Function Type : | Cable (Charging from Adapter) | | | | |



Final Result : QuasiPeak

| Frequency (MHz) | QuasiPeak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|---------------------|--------|------|---------------|----------------|-----------------|
| 0.150000 | 40.0 | Off | L1 | 19.5 | 26.0 | 66.0 |
| 0.174000 | 44.8 | Off | L1 | 19.4 | 20.0 | 64.8 |
| 0.462000 | 41.9 | Off | L1 | 19.4 | 14.8 | 56.7 |
| 1.078000 | 40.3 | Off | L1 | 19.5 | 15.7 | 56.0 |
| 1.294000 | 38.4 | Off | L1 | 19.6 | 17.6 | 56.0 |
| 1.550000 | 36.7 | Off | L1 | 19.5 | 19.3 | 56.0 |
| 4.094000 | 34.9 | Off | L1 | 19.7 | 21.1 | 56.0 |
| 5.710000 | 38.5 | Off | L1 | 19.8 | 21.5 | 60.0 |

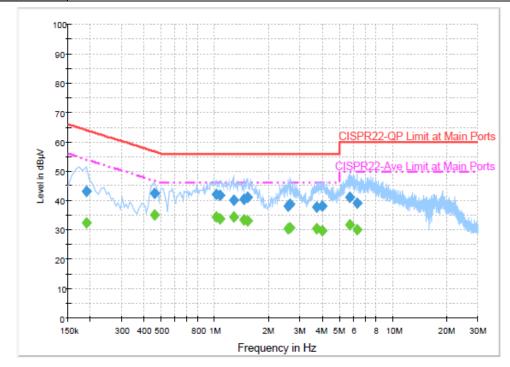
Final Result : Average

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|-----------------|-------------------|--------|------|---------------|----------------|-----------------|
| 0.150000 | 26.7 | Off | L1 | 19.5 | 29.3 | 56.0 |
| 0.174000 | 33.5 | Off | L1 | 19.4 | 21.3 | 54.8 |
| 0.462000 | 34.9 | Off | L1 | 19.4 | 11.8 | 46.7 |
| 1.078000 | 33.2 | Off | L1 | 19.5 | 12.8 | 46.0 |
| 1.294000 | 32.6 | Off | L1 | 19.6 | 13.4 | 46.0 |
| 1.550000 | 29.6 | Off | L1 | 19.5 | 16.4 | 46.0 |
| 4.094000 | 25.7 | Off | L1 | 19.7 | 20.3 | 46.0 |
| 5.710000 | 28.1 | Off | L1 | 19.8 | 21.9 | 50.0 |

Report No. : FR520216-01E
Report Version : Rev. 02
Page Number : 27 of 35

| Test Mode : | Mode 1 | Temperature : | 24~26 ℃ | | | |
|-----------------|--|---------------------|----------------|--|--|--|
| Test Engineer : | Eric Jeng | Relative Humidity : | 48~50% | | | |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral | | | |
| | VLAN (5GHz) Link + Bluetooth Link + MPEG4 + Earphone + SD Card + USB | | | | | |

Function Type : WLAN (5GHz) Link + Bluetooth Link + MPEG4 + Earphone + SD Card + USE Cable (Charging from Adapter)



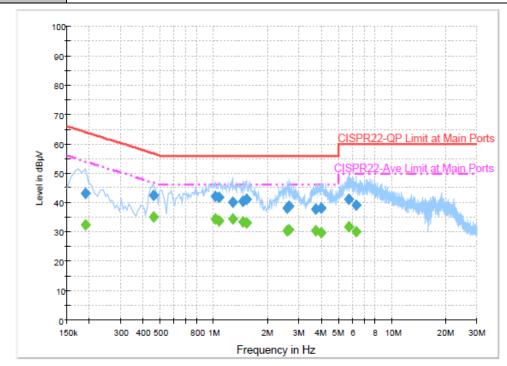
Final Result : QuasiPeak

| F | O!D!- | | | 0 | M | Limit |
|-----------|-----------|--------|------|-------|--------|--------|
| Frequency | QuasiPeak | Filter | Line | Corr. | Margin | Limit |
| (MHz) | (dBµV) | 1 1101 | | (dB) | (dB) | (dBµV) |
| 0.190000 | 43.0 | Off | N | 19.5 | 21.0 | 64.0 |
| 0.462000 | 42.5 | Off | N | 19.4 | 14.2 | 56.7 |
| 1.014000 | 42.0 | Off | N | 19.5 | 14.0 | 56.0 |
| 1.070000 | 41.7 | Off | N | 19.5 | 14.3 | 56.0 |
| 1.278000 | 40.3 | Off | N | 19.6 | 15.7 | 56.0 |
| 1.462000 | 40.3 | Off | N | 19.5 | 15.7 | 56.0 |
| 1.526000 | 41.2 | Off | N | 19.5 | 14.8 | 56.0 |
| 2.582000 | 38.1 | Off | N | 19.6 | 17.9 | 56.0 |
| 2.654000 | 38.9 | Off | N | 19.6 | 17.1 | 56.0 |
| 3.750000 | 37.9 | Off | N | 19.7 | 18.1 | 56.0 |
| 4.022000 | 38.1 | Off | N | 19.7 | 17.9 | 56.0 |
| 5.710000 | 41.1 | Off | N | 19.7 | 18.9 | 60.0 |
| 6.310000 | 39.1 | Off | N | 19.7 | 20.9 | 60.0 |

Report No. : FR520216-01E Report Version : Rev. 02 Page Number : 28 of 35

| Test Mode : | Mode 1 | Temperature : | 24~26 ℃ |
|-----------------|-------------------------|----------------------|----------------------------|
| Test Engineer : | Eric Jeng | Relative Humidity : | 48~50% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |
| Function Type · | WLAN (5GHz) Link + Blue | tooth Link + MPEG4 - | + Earphone + SD Card + USB |

Cable (Charging from Adapter)



Final Result : Average

| ٠. | mai ixcount | . Average | | | | | |
|----|-------------|-----------|--------|------|-------|--------|--------|
| | Frequency | Average | Filter | Line | Corr. | Margin | Limit |
| | (MHz) | (dBµV) | Filler | Line | (dB) | (dB) | (dBµV) |
| | 0.190000 | 32.5 | Off | N | 19.5 | 21.5 | 54.0 |
| | 0.462000 | 35.1 | Off | N | 19.4 | 11.6 | 46.7 |
| | 1.014000 | 34.5 | Off | N | 19.5 | 11.5 | 46.0 |
| | 1.070000 | 33.9 | Off | N | 19.5 | 12.1 | 46.0 |
| | 1.278000 | 34.5 | Off | N | 19.6 | 11.5 | 46.0 |
| | 1.462000 | 33.3 | Off | N | 19.5 | 12.7 | 46.0 |
| | 1.526000 | 33.2 | Off | N | 19.5 | 12.8 | 46.0 |
| | 2.582000 | 30.6 | Off | N | 19.6 | 15.4 | 46.0 |
| | 2.654000 | 30.7 | Off | N | 19.6 | 15.3 | 46.0 |
| | 3.750000 | 30.4 | Off | N | 19.7 | 15.6 | 46.0 |
| | 4.022000 | 29.6 | Off | N | 19.7 | 16.4 | 46.0 |
| | 5.710000 | 31.8 | Off | N | 19.7 | 18.2 | 50.0 |
| | 6.310000 | 30.1 | Off | N | 19.7 | 19.9 | 50.0 |

Report No. : FR520216-01E Report Version : Rev. 02 Page Number : 29 of 35

3.6 Frequency Stability Measurement

3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

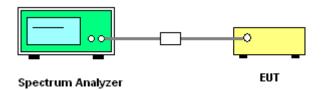
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

- To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
- 2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
- The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

3.6.4 Test Setup



3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.

Report No. : FR520216-01E Report Version : Rev. 02 Page Number : 30 of 35

3.7 Automatically Discontinue Transmission

3.7.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to

transmit or operational failure. These provisions are not intended to preclude the transmission of

control or signaling information or the use of repetitive codes used by certain digital technologies to

complete frame or burst intervals. Applicants shall include in their application for equipment

authorization to describe how this requirement is met.

3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Result of Automatically Discontinue Transmission

EUT is verified this characteristic during the function check of normal sample associated with an

access point:

A. Information start: make EUT supply information to the access point.

B. Information stop: stop supplying information to the access point.

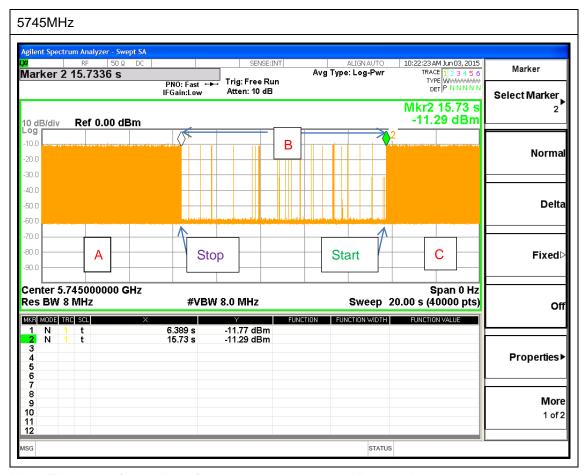
While the EUT is not transmitting any information, the EUT can automatically discontinue

transmission and become standby mode for power saving.

C. Information start: make EUT supply information to the access point again.

The EUT can detect the controlling signal of ACK message transmitting from remote device and verify

whether it shall resend or discontinue transmission.



Note: The control / signalling information during the period B is precluded.

Report No. : FR520216-01E
Report Version : Rev. 02
Page Number : 32 of 35

3.8 Antenna Requirements

3.8.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2) ,if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.8.3 Antenna Gain

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

Report No. : FR520216-01E
Report Version : Rev. 02
Page Number : 33 of 35

4 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|--------------------------------------|--------------------|-------------------------|-------------------|-----------------|---------------------|--------------------------------|---------------|--------------------------|
| Power Meter | Anritsu | ML2495A | 1218006 | 300MHz~40GHz | Oct. 18, 2014 | May 12, 2015~ Jun. 03, 2015 | Oct. 17, 2015 | Conducted (TH02-HY) |
| Power Sensor | DARE | RadiPower | 15I00041SNO0 9 | 10MHz~6GHz | Apr. 30, 2015 | May 12, 2015~ Jun. 03, 2015 | Apr. 29, 2016 | Conducted (TH02-HY) |
| Spectrum Analyzer | Rohde & Schwarz | FSP40 | 100057 | 9kHz-40GHz | Oct. 17, 2014 | May 12, 2015~ Jun. 03, 2015 | Oct. 16, 2015 | Conducted (TH02-HY) |
| Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 100315 | 9 kHz~30 MHz | Jul. 28, 2014 | May 09, 2015 ~ May 17, 2015 | Jul. 27, 2015 | Radiation (03CH11-HY) |
| Horn Antenna | SCHWARZBE CK | BBHA 9170 | BBHA9170584 | 18GHz- 40GHz | Nov. 03, 2014 | May 09, 2015 ~ May 17, 2015 | Nov. 02, 2015 | Radiation (03CH11-HY) |
| Amplifier | SONOMA | 310N | 187312 | 9kHz~1GHz | Nov. 24, 2014 | May 09, 2015 ~ May 17, 2015 | Nov. 23, 2015 | Radiation (03CH11-HY) |
| Bilog Antenna | TESEQ | CBL 6111D | 35414 | 30MHz~1GHz | Oct. 24, 2014 | May 09, 2015 ~ May 17, 2015 | Oct. 23, 2015 | Radiation (03CH11-HY) |
| Horn Antenna | SCHWARZBE CK | BBHA 9120 D | 9120D-1326 | 1GHz ~ 18GHz | Oct. 03, 2014 | May 09, 2015 ~ May 17, 2015 | Oct. 02, 2015 | Radiation (03CH11-HY) |
| Preamplifier | Keysight | 83017A | MY53270080 | 1GHz~26.5GHz | Nov. 20, 2014 | May 09, 2015 ~ May 17, 2015 | Nov. 19, 2015 | Radiation (03CH11-HY) |
| Spectrum Analyzer | Keysight | N9010A | MY54200486 | 10Hz ~ 44GHZ | Sep. 24, 2014 | May 09, 2015 ~ May 17, 2015 | Sep. 23, 2015 | Radiation (03CH11-HY) |
| Antenna Mast | EMEC | AM-BS-4500-B | N/A | 1~4m | N/A | May 09, 2015 ~ May 17, 2015 | N/A | Radiation (03CH11-HY) |
| Turn Table | EMEC | TT 2000 | N/A | 0-360 degree | N/A | May 09, 2015 ~ May 17, 2015 | N/A | Radiation (03CH11-HY) |
| Preamplifier | MITEQ | JS44-1800400 0-33-8P | 1840917 | 18GHz ~ 40GHz | Jun. 09, 2014 | May 09, 2015 ~ May 17, 2015 | Jun. 08, 2015 | Radiation (03CH11-HY) |
| EMI Test Receiver | Rohde & Schwarz | ESCS 30 | 100356 | 9kHz – 2.75GHz | Dec. 01, 2014 | May 07, 2015 | Nov. 30, 2015 | Conduction (CO05-HY) |
| LISN | Rohde & Schwarz | ENV216 | 100080 | 9kHz~30MHz | Dec. 02, 2014 | May 07, 2015 | Dec. 01, 2015 | Conduction (CO05-HY) |
| LISN (for auxiliary equipment) | Rohde & Schwarz | ENV216 | 100081 | 9kHz~30MHz | Dec. 08, 2014 | May 07, 2015 | Dec. 07, 2015 | Conduction (CO05-HY) |
| AC Power Source | ChainTek | APC-1000W | N/A | N/A | N/A | May 07, 2015 | N/A | Conduction (CO05-HY) |

Report No. : FR520216-01E
Report Version : Rev. 02
Page Number : 34 of 35

5 Uncertainty of Evaluation

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

| Measuring Uncertainty for a Level of | 2.26 |
|--------------------------------------|------|
| Confidence of 95% (U = 2Uc(y)) | 2.20 |

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

| Measuring Uncertainty for a Level of | 4.00 |
|--------------------------------------|------|
| Confidence of 95% (U = 2Uc(y)) | 4.90 |

Report No. : FR520216-01E
Report Version : Rev. 02
Page Number : 35 of 35

Report Number : FR520216-01E

Appendix A. Conducted Test Results

| Test Engineer: | Derek Hsu | Temperature: | 21~25 | °C |
|----------------|--------------------|--------------------|-------|----|
| Test Date: | 2015/5/7~2015/5/25 | Relative Humidity: | 51~54 | % |

Report Number: FR520216-01E

TEST RESULTS DATA 6dB and 99% OBW

| | | | | | Band IV | | |
|-------|--------------|-----|-----|----------------|----------------------------|-------------------------------------|-----------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 6 dB Bandwidth (MHz) | FCC 6dB Bandwidth Limit (MHz) | Pass/Fail |
| 11a | 6Mbps | 1 | 149 | 5745 | 15.08 | 0.5 | Pass |
| 11a | 6Mbps | 1 | 157 | 5785 | 15.08 | 0.5 | Pass |
| 11a | 6Mbps | 1 | 165 | 5825 | 15.08 | 0.5 | Pass |
| HT20 | MCS 0 | 1 | 149 | 5745 | 15.08 | 0.5 | Pass |
| HT20 | MCS 0 | 1 | 157 | 5785 | 15.08 | 0.5 | Pass |
| HT20 | MCS 0 | 1 | 165 | 5825 | 15.08 | 0.5 | Pass |
| HT40 | MCS 0 | 1 | 151 | 5755 | 32.48 | 0.5 | Pass |
| HT40 | MCS 0 | 1 | 159 | 5795 | 33.76 | 0.5 | Pass |
| VHT20 | MCS 0 | 1 | 149 | 5745 | 15.08 | 0.5 | Pass |
| VHT20 | MCS 0 | 1 | 157 | 5785 | 15.12 | 0.5 | Pass |
| VHT20 | MCS 0 | 1 | 165 | 5825 | 15.08 | 0.5 | Pass |
| VHT40 | MCS 0 | 1 | 151 | 5755 | 35.04 | 0.5 | Pass |
| VHT40 | MCS 0 | 1 | 159 | 5795 | 35.04 | 0.5 | Pass |
| VHT80 | MCS 0 | 1 | 155 | 5775 | 73.92 | 0.5 | Pass |

Report Number: FR520216-01E

TEST RESULTS DATA Average Power Table

| | | | | | | FCC Bai | nd IV | | |
|-------|--------------|-----|-----|----------------|------------------------|--|--|-------------|-----------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | FCC Conducted Power Limit (dBm) | DG (dBi) | Pass/Fail |
| 11a | 6Mbps | 1 | 149 | 5745 | 0.10 | 16.03 | 30.00 | 0.40 | Pass |
| 11a | 6Mbps | 1 | 157 | 5785 | 0.10 | 16.01 | 30.00 | 0.40 | Pass |
| 11a | 6Mbps | 1 | 165 | 5825 | 0.10 | 16.06 | 30.00 | 0.40 | Pass |
| HT20 | MCS 0 | 1 | 149 | 5745 | 0.14 | 16.13 | 30.00 | 0.40 | Pass |
| HT20 | MCS 0 | 1 | 157 | 5785 | 0.14 | 15.89 | 30.00 | 0.40 | Pass |
| HT20 | MCS 0 | 1 | 165 | 5825 | 0.14 | 15.95 | 30.00 | 0.40 | Pass |
| HT40 | MCS 0 | 1 | 151 | 5755 | 0.25 | 15.27 | 30.00 | 0.40 | Pass |
| HT40 | MCS 0 | 1 | 159 | 5795 | 0.25 | 16.43 | 30.00 | 0.40 | Pass |
| VHT20 | MCS 0 | 1 | 149 | 5745 | 0.11 | 13.74 | 30.00 | 0.40 | Pass |
| VHT20 | MCS 0 | 1 | 157 | 5785 | 0.11 | 13.81 | 30.00 | 0.40 | Pass |
| VHT20 | MCS 0 | 1 | 165 | 5825 | 0.11 | 13.98 | 30.00 | 0.40 | Pass |
| VHT40 | MCS 0 | 1 | 151 | 5755 | 0.25 | 13.68 | 30.00 | 0.40 | Pass |
| VHT40 | MCS 0 | 1 | 159 | 5795 | 0.25 | 13.80 | 30.00 | 0.40 | Pass |
| VHT80 | MCS 0 | 1 | 155 | 5775 | 0.51 | 13.73 | 30.00 | 0.40 | Pass |

Report Number: FR520216-01E

TEST RESULTS DATA Power Spectral Density

| | | | | | | Band | IV | | | |
|-------|--------------|-----|-----|----------------|------------------------|--|---|---|-------------|-----------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | 10log (500kHz /RBW) Factor (dB) | Average Power Density (dBm/500kHz) | Average PSD Limit (dBm/500kHz) | DG (dBi) | Pass/Fail |
| 11a | 6Mbps | | 149 | 5745 | 0.10 | 2.22 | 2.50 | 30.00 | 0.40 | Pass |
| 11a | 6Mbps | 1 | 157 | 5785 | 0.10 | 2.22 | 2.57 | 30.00 | 0.40 | Pass |
| 11a | 6Mbps | 1 | 165 | 5825 | 0.10 | 2.22 | 2.17 | 30.00 | 0.40 | Pass |
| HT20 | MCS 0 | 1 | 149 | 5745 | 0.14 | 2.22 | 2.51 | 30.00 | 0.40 | Pass |
| HT20 | MCS 0 | 1 | 157 | 5785 | 0.14 | 2.22 | 2.05 | 30.00 | 0.40 | Pass |
| HT20 | MCS 0 | 1 | 165 | 5825 | 0.14 | 2.22 | 1.93 | 30.00 | 0.40 | Pass |
| HT40 | MCS 0 | 1 | 151 | 5755 | 0.25 | 2.22 | -1.58 | 30.00 | 0.40 | Pass |
| HT40 | MCS 0 | 1 | 159 | 5795 | 0.25 | 2.22 | -0.54 | 30.00 | 0.40 | Pass |
| VHT20 | MCS 0 | 1 | 149 | 5745 | 0.11 | 2.22 | 0.35 | 30.00 | 0.40 | Pass |
| VHT20 | MCS 0 | 1 | 157 | 5785 | 0.11 | 2.22 | -0.35 | 30.00 | 0.40 | Pass |
| VHT20 | MCS 0 | 1 | 165 | 5825 | 0.11 | 2.22 | -0.44 | 30.00 | 0.40 | Pass |
| VHT40 | MCS 0 | 1 | 151 | 5755 | 0.25 | 2.22 | -2.92 | 30.00 | 0.40 | Pass |
| VHT40 | MCS 0 | 1 | 159 | 5795 | 0.25 | 2.22 | -3.31 | 30.00 | 0.40 | Pass |
| VHT80 | MCS 0 | 1 | 155 | 5775 | 0.51 | 2.22 | -1.26 | 30.00 | 0.40 | Pass |

Report Number : FR520216-01E

TEST RESULTS DATA Frequency Stability

| | | | | | | Band | IV | | | |
|------|--------------|-----|-----|----------------|------------------------------|---------------------------------|----------------------------------|------------------|----------------|------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Center Frequency (MHz) | Frequency Deviation (MHz) | Frequency Stablility (ppm) | Temperature (°C) | Voltage (V) | Note |
| 11a | 6M bps | 1 | 149 | 5745 | 5745.000 | 0.000 | 0.00 | 25 | 3.4 | |
| 11a | 6M bps | 1 | 149 | 5745 | 5745.000 | 0.000 | 0.00 | 25 | 4.2 | |
| 11a | 6M bps | 1 | 149 | 5745 | 5745.000 | 0.000 | 0.00 | 25 | 3.7 | |
| 11a | 6M bps | 1 | 149 | 5745 | 5745.050 | 0.050 | 8.70 | 0 | 3.7 | |
| 11a | 6M bps | 1 | 149 | 5745 | 5745.000 | 0.000 | 0.00 | 35 | 3.7 | |

Appendix B. Radiated Spurious Emission

| Test Engineer : | Jesse Wang and Derreck Chen | Temperature : | 23~24°C |
|-----------------|-----------------------------|---------------------|---------|
| rest Engineer. | | Relative Humidity : | 46~48% |

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------------|------|------------|------------|-------|------------|---------------------|----------|--------|--------|------|---------|-------|-------|
| Ant. | | , . | | Limit | Line | Level | Factor | Loss | Factor | Pos | | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dB _µ V) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 5714.28 | 59.9 | -14.1 | 74 | 51.86 | 32.29 | 9.39 | 33.64 | 100 | 77 | Р | Н |
| | | 5724.92 | 72.19 | -6.11 | 78.3 | 64.08 | 32.31 | 9.44 | 33.64 | 100 | 77 | Р | Н |
| | | 5714.84 | 49.42 | -4.58 | 54 | 41.38 | 32.29 | 9.39 | 33.64 | 100 | 77 | Α | Н |
| | * | 5745 | 109.62 | - | - | 101.49 | 32.34 | 9.44 | 33.65 | 100 | 77 | Р | Н |
| | * | 5745 | 102.81 | - | - | 94.68 | 32.34 | 9.44 | 33.65 | 100 | 77 | Α | Н |
| | | | | | | | | | | | | | Н |
| 000 44 - | | | | | | | | | | | | | Н |
| 802.11a CH 149 | | | | | | | | | | | | | Н |
| 5745MHz | | 5712.36 | 56.9 | -17.1 | 74 | 48.86 | 32.29 | 9.39 | 33.64 | 100 | 74 | Р | V |
| 37 4314112 | | 5725 | 72.07 | -6.23 | 78.3 | 63.96 | 32.31 | 9.44 | 33.64 | 100 | 74 | Р | V |
| | | 5715 | 47.55 | -6.45 | 54 | 39.51 | 32.29 | 9.39 | 33.64 | 100 | 74 | Α | V |
| | * | 5746 | 108.48 | - | - | 100.35 | 32.34 | 9.44 | 33.65 | 100 | 74 | Р | V |
| | * | 5746 | 101.37 | - | - | 93.24 | 32.34 | 9.44 | 33.65 | 100 | 74 | Α | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |

Page Number : B1 of B23

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 5691 | 55.25 | -18.75 | 74 | 47.22 | 32.27 | 9.39 | 33.63 | 100 | 77 | Р | Н |
| | | 5721.32 | 54.91 | -23.39 | 78.3 | 46.85 | 32.31 | 9.39 | 33.64 | 100 | 77 | Р | Н |
| | | 5687.24 | 47.63 | -6.37 | 54 | 39.6 | 32.27 | 9.39 | 33.63 | 100 | 77 | Α | Н |
| | * | 5785 | 109.27 | - | - | 101.05 | 32.39 | 9.49 | 33.66 | 100 | 77 | Р | Н |
| | * | 5785 | 102.03 | - | - | 93.81 | 32.39 | 9.49 | 33.66 | 100 | 77 | Α | Н |
| | | 5859.6 | 54.38 | -23.92 | 78.3 | 46.02 | 32.51 | 9.54 | 33.69 | 100 | 77 | Р | Н |
| 000 44 | | 5860.72 | 53.12 | -20.88 | 74 | 44.76 | 32.51 | 9.54 | 33.69 | 100 | 77 | Р | Н |
| 802.11a | | 5860.56 | 44.77 | -9.23 | 54 | 36.41 | 32.51 | 9.54 | 33.69 | 100 | 77 | Α | Н |
| CH 157 5785MHz | | 5711.32 | 52.97 | -21.03 | 74 | 44.93 | 32.29 | 9.39 | 33.64 | 102 | 75 | Р | V |
| 37 63WIF12 | | 5720.52 | 53.81 | -24.49 | 78.3 | 45.75 | 32.31 | 9.39 | 33.64 | 102 | 75 | Р | V |
| | | 5702.84 | 45.35 | -8.65 | 54 | 37.3 | 32.29 | 9.39 | 33.63 | 102 | 75 | Α | V |
| | * | 5788 | 108.24 | - | - | 100 | 32.41 | 9.49 | 33.66 | 102 | 75 | Р | V |
| | * | 5788 | 102.45 | - | - | 94.21 | 32.41 | 9.49 | 33.66 | 102 | 75 | Α | V |
| | | 5851.84 | 53.11 | -25.19 | 78.3 | 44.77 | 32.48 | 9.54 | 33.68 | 102 | 75 | Р | V |
| | | 5886.4 | 53.92 | -20.08 | 74 | 45.52 | 32.53 | 9.57 | 33.7 | 102 | 75 | Р | V |
| | | 5880.32 | 45.76 | -8.24 | 54 | 37.38 | 32.53 | 9.54 | 33.69 | 102 | 75 | Α | V |

Page Number : B2 of B23

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|------------------|------------|----------|-------------|----------|----------|-------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | * | 5825 | 109.72 | - | - | 101.41 | 32.46 | 9.52 | 33.67 | 100 | 77 | Р | Н |
| | * | 5825 | 102.18 | - | - | 93.87 | 32.46 | 9.52 | 33.67 | 100 | 77 | Α | Н |
| | | 5850.96 | 65.02 | -13.28 | 78.3 | 56.68 | 32.48 | 9.54 | 33.68 | 100 | 77 | Р | Н |
| | | 5861.12 | 54.52 | -19.48 | 74 | 46.16 | 32.51 | 9.54 | 33.69 | 100 | 77 | Р | Н |
| | | 5860.4 | 46.71 | -7.29 | 54 | 38.35 | 32.51 | 9.54 | 33.69 | 100 | 77 | Α | Н |
| | | | | | | | | | | | | | Н |
| | | | | | | | | | | | | | Н |
| 802.11a | | | | | | | | | | | | | Н |
| CH 165 | * | 5825 | 108.44 | - | - | 100.13 | 32.46 | 9.52 | 33.67 | 105 | 74 | Р | V |
| 5825MHz | * | 5825 | 101.82 | - | - | 93.51 | 32.46 | 9.52 | 33.67 | 105 | 74 | Α | V |
| | | 5850.1 | 64.9 | -13.4 | 78.3 | 56.56 | 32.48 | 9.54 | 33.68 | 105 | 74 | Р | V |
| | | 5860.88 | 55.65 | -18.35 | 74 | 47.29 | 32.51 | 9.54 | 33.69 | 105 | 74 | Р | V |
| | | 5860.72 | 47.13 | -6.87 | 54 | 38.77 | 32.51 | 9.54 | 33.69 | 105 | 74 | Α | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| Remark | | o other spurious | | Peak and | Average lim | it line. | | | | | | | |

Page Number : B3 of B23

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------------|--------|----------------|--------------|------------|--------------------|--------------|-----------------|--------------|-------------|------------|----------------|----------|-------|
| Ant. | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. | (H/V) |
| • | | 11490 | 46.53 | -27.47 | 74 | 27.28 | 40.01 | 13.95 | 34.71 | 100 | 0 | P | H |
| | | 17232 | 47.45 | -26.55 | 74 | 25.09 | 41.41 | 16.93 | 35.98 | 100 | 0 | Р | Н |
| | | | | | | | | | | | | | Н |
| 802.11a | | | | | | | | | | | | | Н |
| CH 149 5745MHz | | 11490 | 47.66 | -26.34 | 74 | 28.41 | 40.01 | 13.95 | 34.71 | 100 | 0 | Р | V |
| 37 43WII 12 | | 17232 | 48.5 | -25.5 | 74 | 26.14 | 41.41 | 16.93 | 35.98 | 100 | 0 | Р | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 11570 | 46.66 | -27.34 | 74 | 27.54 | 39.89 | 14 | 34.77 | 100 | 0 | Р | Н |
| | | 17352 | 47.58 | -26.42 | 74 | 24.89 | 41.67 | 17 | 35.98 | 100 | 0 | Р | Н |
| 802.11a | | | | | | | | | | | | | Н |
| CH 157 | | | | | | | | | | | | | Н |
| 5785MHz | | 11570 | 46.16 | -27.84 | 74 | 27.04 | 39.89 | 14 | 34.77 | 100 | 0 | Р | V |
| | | 17352 | 47.64 | -26.36 | 74 | 24.95 | 41.67 | 17 | 35.98 | 100 | 0 | Р | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | _ | | V |
| | | 11650 | 45.91 | -28.09 | 74 | 26.89 | 39.78 | 14.05 | 34.81 | 100 | 0 | Р | Н |
| | | 17472 | 49.57 | -24.43 | 74 | 26.55 | 41.93 | 17.08 | 35.99 | 100 | 0 | Р | Н |
| 802.11a | | | | | | | | | | | | | Н |
| CH 165 | | 11650 | 47.74 | -26.26 | 74 | 28.72 | 39.78 | 14.05 | 34.81 | 100 | 0 | Р | V |
| 5825MHz | | 17472 | 48.48 | -25.52 | 74 | 25.46 | 41.93 | 17.08 | 35.99 | 100 | 0 | P | V |
| | | 11712 | 70.70 | 20.02 | , , | 20.40 | 71.00 | 17.00 | 00.99 | 100 | 3 | <u> </u> | V |
| | | | | | | | | | | | | | V |
| | 4 | | | 1 | <u> </u> | | | | | | <u> </u> | <u> </u> | |
| Remark | | other spurious | | Dook on | I Avorogo lim | it line | | | | | | | |
| | 2. All | results are PA | SS against F | reak and | i Average iim | ii iine. | | | | | | | |

Page Number : B4 of B23

Band 4 5725~5850MHz WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|------------|--------|----------|-------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 5714.2 | 61.23 | -12.77 | 74 | 53.19 | 32.29 | 9.39 | 33.64 | 270 | 110 | Р | Н |
| | | 5723.88 | 74.53 | -3.77 | 78.3 | 66.42 | 32.31 | 9.44 | 33.64 | 270 | 110 | Р | Н |
| | | 5714.84 | 49.74 | -4.26 | 54 | 41.7 | 32.29 | 9.39 | 33.64 | 270 | 110 | Α | Н |
| | * | 5745 | 109.46 | - | - | 101.33 | 32.34 | 9.44 | 33.65 | 270 | 110 | Р | Н |
| | * | 5745 | 102.56 | - | - | 94.43 | 32.34 | 9.44 | 33.65 | 270 | 110 | Α | Н |
| | | | | | | | | | | | | | Н |
| 802.11n | | | | | | | | | | | | | Н |
| HT20 | | | | | | | | | | | | | Н |
| CH 149 | | 5708.36 | 58.32 | -15.68 | 74 | 50.28 | 32.29 | 9.39 | 33.64 | 100 | 76 | Р | ٧ |
| 5745MHz | | 5723.72 | 72.68 | -5.62 | 78.3 | 64.57 | 32.31 | 9.44 | 33.64 | 100 | 76 | Р | ٧ |
| | | 5714.68 | 47.46 | -6.54 | 54 | 39.42 | 32.29 | 9.39 | 33.64 | 100 | 76 | Α | ٧ |
| | * | 5745 | 108.13 | - | - | 100 | 32.34 | 9.44 | 33.65 | 100 | 76 | Р | ٧ |
| | * | 5745 | 100.87 | - | - | 92.74 | 32.34 | 9.44 | 33.65 | 100 | 76 | Α | ٧ |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | ٧ |

Page Number : B5 of B23

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 5695.72 | 55.37 | -18.63 | 74 | 47.34 | 32.27 | 9.39 | 33.63 | 270 | 110 | Р | Н |
| | | 5718.44 | 55.05 | -23.25 | 78.3 | 46.99 | 32.31 | 9.39 | 33.64 | 270 | 110 | Р | Н |
| | | 5694.44 | 47.52 | -6.48 | 54 | 39.49 | 32.27 | 9.39 | 33.63 | 270 | 110 | Α | H |
| | * | 5785 | 109.9 | - | - | 101.68 | 32.39 | 9.49 | 33.66 | 270 | 110 | Р | Н |
| | * | 5785 | 102.62 | - | - | 94.4 | 32.39 | 9.49 | 33.66 | 270 | 110 | Α | Н |
| | | 5858 | 55.65 | -22.65 | 78.3 | 47.29 | 32.51 | 9.54 | 33.69 | 270 | 110 | Р | Н |
| 802.11n | | 5875.52 | 53.41 | -20.59 | 74 | 45.03 | 32.53 | 9.54 | 33.69 | 270 | 110 | Р | Н |
| HT20 | | 5871.68 | 45.78 | -8.22 | 54 | 37.4 | 32.53 | 9.54 | 33.69 | 270 | 110 | Α | Н |
| CH 157 | | 5704.68 | 53.1 | -20.9 | 74 | 45.05 | 32.29 | 9.39 | 33.63 | 101 | 75 | Р | V |
| 5785MHz | | 5715.8 | 52.6 | -25.7 | 78.3 | 44.56 | 32.29 | 9.39 | 33.64 | 101 | 75 | Р | V |
| | | 5685.24 | 45.23 | -8.77 | 54 | 37.2 | 32.27 | 9.39 | 33.63 | 101 | 75 | А | ٧ |
| | * | 5785 | 108.25 | - | - | 100.03 | 32.39 | 9.49 | 33.66 | 101 | 75 | Р | V |
| | * | 5785 | 101.46 | - | - | 93.24 | 32.39 | 9.49 | 33.66 | 101 | 75 | Α | V |
| | | 5859.2 | 53.41 | -24.89 | 78.3 | 45.05 | 32.51 | 9.54 | 33.69 | 101 | 75 | Р | V |
| | | 5861.04 | 52.89 | -21.11 | 74 | 44.53 | 32.51 | 9.54 | 33.69 | 101 | 75 | Р | V |
| | | 5876.48 | 45.7 | -8.3 | 54 | 37.32 | 32.53 | 9.54 | 33.69 | 101 | 75 | Α | V |

Page Number : B6 of B23

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V |
| | * | 5825 | 108.74 | - | - | 100.43 | 32.46 | 9.52 | 33.67 | 265 | 109 | Р | Н |
| | * | 5825 | 102.47 | ı | - | 94.16 | 32.46 | 9.52 | 33.67 | 265 | 109 | Α | Н |
| | | 5850.72 | 71.42 | -6.88 | 78.3 | 63.08 | 32.48 | 9.54 | 33.68 | 265 | 109 | Р | Н |
| | | 5869.28 | 57.46 | -16.54 | 74 | 49.1 | 32.51 | 9.54 | 33.69 | 265 | 109 | Р | Н |
| | | 5860 | 47.5 | -6.5 | 54 | 39.14 | 32.51 | 9.54 | 33.69 | 265 | 109 | Α | Н |
| | | | | | | | | | | | | | Н |
| 802.11n | | | | | | | | | | | | | Н |
| HT20 | | | | | | | | | | | | | Н |
| CH 165 | * | 5825 | 110.05 | ı | - | 101.74 | 32.46 | 9.52 | 33.67 | 271 | 85 | Р | V |
| 5825MHz | * | 5825 | 102.7 | ı | - | 94.39 | 32.46 | 9.52 | 33.67 | 271 | 85 | Α | V |
| | | 5850.32 | 66.72 | -11.58 | 78.3 | 58.38 | 32.48 | 9.54 | 33.68 | 271 | 85 | Р | V |
| | | 5862.8 | 59.38 | -14.62 | 74 | 51.02 | 32.51 | 9.54 | 33.69 | 271 | 85 | Р | V |
| | | 5860.48 | 48.07 | -5.93 | 54 | 39.71 | 32.51 | 9.54 | 33.69 | 271 | 85 | Α | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |

Page Number : B7 of B23

Band 4 5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol |
|---------|------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V |
| | | 11490 | 46.6 | -27.4 | 74 | 27.35 | 40.01 | 13.95 | 34.71 | 100 | 0 | Р | Н |
| | | 17232 | 48.04 | -25.96 | 74 | 25.68 | 41.41 | 16.93 | 35.98 | 100 | 0 | Р | Н |
| 802.11n | | | | | | | | | | | | | Н |
| HT20 | | | | | | | | | | | | | Н |
| CH 149 | | 11490 | 46.44 | -27.56 | 74 | 27.19 | 40.01 | 13.95 | 34.71 | 100 | 0 | Р | ٧ |
| 5745MHz | | 17232 | 49.12 | -24.88 | 74 | 26.76 | 41.41 | 16.93 | 35.98 | 100 | 0 | Р | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 11570 | 46.09 | -27.91 | 74 | 26.97 | 39.89 | 14 | 34.77 | 100 | 0 | Р | Н |
| | | 17352 | 48.65 | -25.35 | 74 | 25.96 | 41.67 | 17 | 35.98 | 100 | 0 | Р | Н |
| 802.11n | | | | | | | | | | | | | Н |
| HT20 | | | | | | | | | | | | | Н |
| CH 157 | | 11570 | 46.34 | -27.66 | 74 | 27.22 | 39.89 | 14 | 34.77 | 100 | 0 | Р | V |
| 5785MHz | | 17352 | 47.73 | -26.27 | 74 | 25.04 | 41.67 | 17 | 35.98 | 100 | 0 | Р | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 11650 | 46.56 | -27.44 | 74 | 27.54 | 39.78 | 14.05 | 34.81 | 100 | 0 | Р | Н |
| | | 17472 | 48.57 | -25.43 | 74 | 25.55 | 41.93 | 17.08 | 35.99 | 100 | 0 | Р | Н |
| 802.11n | | | | | | | | | | | | | Н |
| HT20 | | | | | | | | | | | | | Н |
| CH 165 | | 11650 | 46.23 | -27.77 | 74 | 27.21 | 39.78 | 14.05 | 34.81 | 100 | 0 | Р | V |
| 5825MHz | | 17472 | 49.56 | -24.44 | 74 | 26.54 | 41.93 | 17.08 | 35.99 | 100 | 0 | Р | V |
| | | | | | | | | | | | | | V |
| | 1 | | | | | | | | | | | | V |

Page Number : B8 of B23

Band 4 5725~5850MHz WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 5713.4 | 66.6 | -7.4 | 74 | 58.56 | 32.29 | 9.39 | 33.64 | 100 | 123 | Р | Н |
| | | 5721.96 | 76.98 | -1.32 | 78.3 | 68.87 | 32.31 | 9.44 | 33.64 | 100 | 123 | Р | Н |
| | | 5714.68 | 53.4 | -0.6 | 54 | 45.36 | 32.29 | 9.39 | 33.64 | 100 | 123 | Α | Н |
| | * | 5748 | 103.7 | - | - | 95.57 | 32.34 | 9.44 | 33.65 | 100 | 123 | Р | Н |
| | * | 5748 | 97.4 | - | - | 89.27 | 32.34 | 9.44 | 33.65 | 100 | 123 | Α | Н |
| | | 5853.44 | 51.89 | -26.41 | 78.3 | 43.55 | 32.48 | 9.54 | 33.68 | 100 | 123 | Р | Н |
| 802.11n | | 5870.8 | 52.56 | -21.44 | 74 | 44.18 | 32.53 | 9.54 | 33.69 | 100 | 123 | Р | Н |
| HT40 | | 5861.44 | 44.72 | -9.28 | 54 | 36.36 | 32.51 | 9.54 | 33.69 | 100 | 123 | Α | Н |
| CH 151 | | 5714.28 | 59.12 | -14.88 | 74 | 51.08 | 32.29 | 9.39 | 33.64 | 100 | 269 | Р | ٧ |
| 5755MHz | | 5723.24 | 72.77 | -5.53 | 78.3 | 64.66 | 32.31 | 9.44 | 33.64 | 100 | 269 | Р | ٧ |
| | | 5714.44 | 49.88 | -4.12 | 54 | 41.84 | 32.29 | 9.39 | 33.64 | 100 | 269 | Α | ٧ |
| | * | 5757 | 99.41 | - | - | 91.26 | 32.36 | 9.44 | 33.65 | 100 | 269 | Р | ٧ |
| | * | 5757 | 93.95 | - | - | 85.8 | 32.36 | 9.44 | 33.65 | 100 | 269 | Α | ٧ |
| | | 5857.52 | 51.15 | -27.15 | 78.3 | 42.78 | 32.51 | 9.54 | 33.68 | 100 | 269 | Р | V |
| | | 5866.88 | 51.47 | -22.53 | 74 | 43.11 | 32.51 | 9.54 | 33.69 | 100 | 269 | Р | V |
| | | 5863.04 | 43.74 | -10.26 | 54 | 35.38 | 32.51 | 9.54 | 33.69 | 100 | 269 | Α | ٧ |

Page Number : B9 of B23

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 5694.12 | 56.06 | -17.94 | 74 | 48.03 | 32.27 | 9.39 | 33.63 | 258 | 111 | Р | Н |
| | | 5716.84 | 57.57 | -20.73 | 78.3 | 49.53 | 32.29 | 9.39 | 33.64 | 258 | 111 | Р | Н |
| | | 5699.08 | 48.04 | -5.96 | 54 | 40.01 | 32.27 | 9.39 | 33.63 | 258 | 111 | Α | Н |
| | * | 5795 | 106.27 | - | - | 98.03 | 32.41 | 9.49 | 33.66 | 258 | 111 | Р | Н |
| | * | 5795 | 98.95 | - | - | 90.71 | 32.41 | 9.49 | 33.66 | 258 | 111 | Α | Н |
| | | 5850.08 | 63.65 | -14.65 | 78.3 | 55.31 | 32.48 | 9.54 | 33.68 | 258 | 111 | Р | Н |
| 802.11n | | 5865.92 | 58.96 | -15.04 | 74 | 50.6 | 32.51 | 9.54 | 33.69 | 258 | 111 | Р | Н |
| HT40 | | 5860.16 | 46.8 | -7.2 | 54 | 38.44 | 32.51 | 9.54 | 33.69 | 258 | 111 | Α | Н |
| CH 159 | | 5693.56 | 55.4 | -18.6 | 74 | 47.37 | 32.27 | 9.39 | 33.63 | 283 | 86 | Р | V |
| 5795MHz | | 5718.12 | 57.18 | -21.12 | 78.3 | 49.12 | 32.31 | 9.39 | 33.64 | 283 | 86 | Р | V |
| | | 5687.24 | 47.66 | -6.34 | 54 | 39.63 | 32.27 | 9.39 | 33.63 | 283 | 86 | Α | V |
| | * | 5795 | 105.88 | - | - | 97.64 | 32.41 | 9.49 | 33.66 | 283 | 86 | Р | V |
| | * | 5795 | 98.81 | - | - | 90.57 | 32.41 | 9.49 | 33.66 | 283 | 86 | Α | V |
| | | 5851.76 | 55.79 | -22.51 | 78.3 | 47.45 | 32.48 | 9.54 | 33.68 | 283 | 86 | Р | V |
| | | 5861.52 | 57.47 | -16.53 | 74 | 49.11 | 32.51 | 9.54 | 33.69 | 283 | 86 | Р | V |
| | | 5860.24 | 46.82 | -7.18 | 54 | 38.46 | 32.51 | 9.54 | 33.69 | 283 | 86 | Α | V |

Page Number : B10 of B23

No other spurious found.
 All results are PASS again All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|--------|------------------|-------------|--------------|-------------|----------|----------|--------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 11510 | 46.12 | -27.88 | 74 | 26.9 | 40 | 13.95 | 34.73 | 100 | 0 | Р | Н |
| | | 17268 | 47.65 | -26.35 | 74 | 25.19 | 41.49 | 16.95 | 35.98 | 100 | 0 | Р | Н |
| 802.11n | | | | | | | | | | | | | Н |
| HT40 | | | | | | | | | | | | | Н |
| CH 151 | | 11510 | 46.14 | -27.86 | 74 | 26.92 | 40 | 13.95 | 34.73 | 100 | 0 | Р | V |
| 5755MHz | | 17268 | 47.46 | -26.54 | 74 | 25 | 41.49 | 16.95 | 35.98 | 100 | 0 | Р | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 11590 | 46.21 | -27.79 | 74 | 27.12 | 39.86 | 14 | 34.77 | 100 | 0 | Р | Н |
| | | 17388 | 48.63 | -25.37 | 74 | 25.85 | 41.74 | 17.03 | 35.99 | 100 | 0 | Р | Н |
| 802.11n | | | | | | | | | | | | | Н |
| HT40 | | | | | | | | | | | | | Н |
| CH 159 | | 11590 | 46.63 | -27.37 | 74 | 27.54 | 39.86 | 14 | 34.77 | 100 | 0 | Р | V |
| 5795MHz | | 17388 | 48.89 | -25.11 | 74 | 26.11 | 41.74 | 17.03 | 35.99 | 100 | 0 | Р | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | 1 No | o other spurious | s found | | | I | <u>I</u> | | 1 | I | I. | | |
| Remark | | • | | امماد منه -ا | Avere == !: | it line | | | | | | | |
| | 2. All | results are PA | oo agamst F | eak and | Average IIM | it iine. | | | | | | | |

Page Number : B11 of B23

Band 4 5725~5850MHz WIFI 802.11ac VHT20 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------|------|-----------|------------|--------|------------|--------|----------|-------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 5714.84 | 59.36 | -14.64 | 74 | 51.32 | 32.29 | 9.39 | 33.64 | 266 | 110 | Р | Н |
| | | 5724.68 | 76.83 | -1.47 | 78.3 | 68.72 | 32.31 | 9.44 | 33.64 | 266 | 110 | Р | Н |
| | | 5714.92 | 49.65 | -4.35 | 54 | 41.61 | 32.29 | 9.39 | 33.64 | 266 | 110 | Α | Н |
| | * | 5745 | 110.89 | - | - | 102.76 | 32.34 | 9.44 | 33.65 | 266 | 110 | Р | Н |
| | * | 5745 | 103.22 | - | - | 95.09 | 32.34 | 9.44 | 33.65 | 266 | 110 | Α | Н |
| | | | | | | | | | | | | | Н |
| 802.11ac | | | | | | | | | | | | | Н |
| VHT20 | | | | | | | | | | | | | Н |
| CH 149 | | 5713.64 | 60.75 | -13.25 | 74 | 52.71 | 32.29 | 9.39 | 33.64 | 266 | 85 | Р | ٧ |
| 5745MHz | | 5722.92 | 76.85 | -1.45 | 78.3 | 68.74 | 32.31 | 9.44 | 33.64 | 266 | 85 | Р | ٧ |
| | | 5714.76 | 49.63 | -4.37 | 54 | 41.59 | 32.29 | 9.39 | 33.64 | 266 | 85 | Α | ٧ |
| | * | 5745 | 109.57 | - | - | 101.44 | 32.34 | 9.44 | 33.65 | 266 | 85 | Р | ٧ |
| | * | 5745 | 102.86 | - | - | 94.73 | 32.34 | 9.44 | 33.65 | 266 | 85 | Α | ٧ |
| | | | | | | | | | | | | | ٧ |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | ٧ |

Page Number : B12 of B23

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 5694.12 | 55.56 | -18.44 | 74 | 47.53 | 32.27 | 9.39 | 33.63 | 257 | 109 | Р | Н |
| | | 5721.72 | 55.18 | -23.12 | 78.3 | 47.07 | 32.31 | 9.44 | 33.64 | 257 | 109 | Р | Н |
| | | 5696.36 | 47.82 | -6.18 | 54 | 39.79 | 32.27 | 9.39 | 33.63 | 257 | 109 | Α | П |
| | * | 5785 | 111.14 | - | - | 102.92 | 32.39 | 9.49 | 33.66 | 257 | 109 | Р | Н |
| | * | 5785 | 103.43 | - | - | 95.21 | 32.39 | 9.49 | 33.66 | 257 | 109 | Α | Н |
| | | 5850.56 | 54.35 | -23.95 | 78.3 | 46.01 | 32.48 | 9.54 | 33.68 | 257 | 109 | Р | Н |
| 802.11ac | | 5878.72 | 54.56 | -19.44 | 74 | 46.18 | 32.53 | 9.54 | 33.69 | 257 | 109 | Р | Н |
| VHT20 | | 5886.48 | 46.11 | -7.89 | 54 | 37.71 | 32.53 | 9.57 | 33.7 | 257 | 109 | Α | Н |
| CH 157 | | 5710.04 | 55.68 | -18.32 | 74 | 47.64 | 32.29 | 9.39 | 33.64 | 270 | 86 | Р | ٧ |
| 5785MHz | | 5715.56 | 55.11 | -23.19 | 78.3 | 47.07 | 32.29 | 9.39 | 33.64 | 270 | 86 | Р | ٧ |
| | | 5689.88 | 47.28 | -6.72 | 54 | 39.25 | 32.27 | 9.39 | 33.63 | 270 | 86 | Α | ٧ |
| | * | 5785 | 111.12 | - | - | 102.9 | 32.39 | 9.49 | 33.66 | 270 | 86 | Р | ٧ |
| | * | 5785 | 103.41 | - | - | 95.19 | 32.39 | 9.49 | 33.66 | 270 | 86 | Α | ٧ |
| | | 5860 | 53.7 | -20.3 | 74 | 45.34 | 32.51 | 9.54 | 33.69 | 270 | 86 | Р | ٧ |
| | | 5874.08 | 55.33 | -18.67 | 74 | 46.95 | 32.53 | 9.54 | 33.69 | 270 | 86 | Р | ٧ |
| | | 5869.12 | 46.66 | -7.34 | 54 | 38.3 | 32.51 | 9.54 | 33.69 | 270 | 86 | Α | V |

Page Number : B13 of B23

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------|------|-----------|------------|--------|------------|---------------------|----------|--------|--------|--------|-------|-------|------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dB _µ V) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V |
| | * | 5825 | 110.1 | - | - | 101.79 | 32.46 | 9.52 | 33.67 | 263 | 109 | Р | Н |
| | * | 5825 | 102.78 | - | - | 94.47 | 32.46 | 9.52 | 33.67 | 263 | 109 | Α | Н |
| | | 5852.48 | 63.86 | -14.44 | 78.3 | 55.52 | 32.48 | 9.54 | 33.68 | 263 | 109 | Р | Н |
| | | 5861.52 | 57.11 | -16.89 | 74 | 48.75 | 32.51 | 9.54 | 33.69 | 263 | 109 | Р | Н |
| | | 5860 | 47.69 | -6.31 | 54 | 39.33 | 32.51 | 9.54 | 33.69 | 263 | 109 | Α | Н |
| | | | | | | | | | | | | | Н |
| 802.11ac | | | | | | | | | | | | | Н |
| VHT20 | | | | | | | | | | | | | Н |
| CH 165 | * | 5825 | 109.22 | - | - | 100.91 | 32.46 | 9.52 | 33.67 | 277 | 86 | Р | V |
| 5825MHz | * | 5825 | 102.7 | - | - | 94.39 | 32.46 | 9.52 | 33.67 | 277 | 86 | Α | V |
| | | 5850.32 | 65.57 | -12.73 | 78.3 | 57.23 | 32.48 | 9.54 | 33.68 | 277 | 86 | Р | V |
| | | 5867.28 | 59.78 | -14.22 | 74 | 51.42 | 32.51 | 9.54 | 33.69 | 277 | 86 | Р | V |
| | | 5860.16 | 48.17 | -5.83 | 54 | 39.81 | 32.51 | 9.54 | 33.69 | 277 | 86 | Α | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |

Page Number : B14 of B23

Band 4 5725~5850MHz WIFI 802.11ac VHT20 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------|------|-----------|------------|--------|------------|--------|----------|--------|--------|----------|---------|-------|------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V |
| | | 11490 | 46.37 | -27.63 | 74 | 27.12 | 40.01 | 13.95 | 34.71 | 100 | 0 | Р | Н |
| | | 17232 | 47.86 | -26.14 | 74 | 25.5 | 41.41 | 16.93 | 35.98 | 100 | 0 | Р | Н |
| 802.11ac | | | | | | | | | | | | | Н |
| VHT20 | | | | | | | | | | | | | Н |
| CH 149 | | 11490 | 47.02 | -26.98 | 74 | 27.77 | 40.01 | 13.95 | 34.71 | 100 | 0 | Р | V |
| 5745MHz | | 17232 | 46.9 | -27.1 | 74 | 24.54 | 41.41 | 16.93 | 35.98 | 100 | 0 | Р | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 11570 | 45.65 | -28.35 | 74 | 26.53 | 39.89 | 14 | 34.77 | 100 | 0 | Р | Н |
| | | 17352 | 48.51 | -25.49 | 74 | 25.82 | 41.67 | 17 | 35.98 | 100 | 0 | Р | Н |
| 802.11ac | | | | | | | | | | | | | Н |
| VHT20 | | | | | | | | | | | | | Н |
| CH 157 | | 11570 | 47.04 | -26.96 | 74 | 27.92 | 39.89 | 14 | 34.77 | 100 | 0 | Р | V |
| 5785MHz | | 17352 | 50.07 | -23.93 | 74 | 27.38 | 41.67 | 17 | 35.98 | 100 | 0 | Р | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 11650 | 46.17 | -27.83 | 74 | 27.15 | 39.78 | 14.05 | 34.81 | 100 | 0 | Р | Н |
| | | 17472 | 48.46 | -25.54 | 74 | 25.44 | 41.93 | 17.08 | 35.99 | 100 | 0 | Р | Н |
| 802.11ac | | | | | | | | | | | | | Н |
| VHT20 | | | | | | | | | | | | | Н |
| CH 165 | | 11650 | 46.38 | -27.62 | 74 | 27.36 | 39.78 | 14.05 | 34.81 | 100 | 0 | Р | V |
| 5825MHz | | 17472 | 47.87 | -26.13 | 74 | 24.85 | 41.93 | 17.08 | 35.99 | 100 | 0 | Р | V |
| | | | | | | | | | | | | | V |
| | | | 1 | | | 1 | | | | <u> </u> | | + | |

Page Number : B15 of B23

Band 4 5725~5850MHz WIFI 802.11ac VHT40 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------|------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 5712.28 | 61.83 | -12.17 | 74 | 53.79 | 32.29 | 9.39 | 33.64 | 265 | 109 | Р | Н |
| | | 5724.84 | 72.02 | -6.28 | 78.3 | 63.91 | 32.31 | 9.44 | 33.64 | 265 | 109 | Р | Н |
| | | 5714.2 | 52.81 | -1.19 | 54 | 44.77 | 32.29 | 9.39 | 33.64 | 265 | 109 | Α | Н |
| | * | 5755 | 105.13 | - | - | 96.98 | 32.36 | 9.44 | 33.65 | 265 | 109 | Р | Н |
| | * | 5755 | 97.79 | - | - | 89.64 | 32.36 | 9.44 | 33.65 | 265 | 109 | Α | Н |
| | | 5854.56 | 52.45 | -25.85 | 78.3 | 44.08 | 32.51 | 9.54 | 33.68 | 265 | 109 | Р | Н |
| 802.11ac | | 5865.2 | 53.44 | -20.56 | 74 | 45.08 | 32.51 | 9.54 | 33.69 | 265 | 109 | Р | Н |
| VHT40 | | 5865.84 | 45.4 | -8.6 | 54 | 37.04 | 32.51 | 9.54 | 33.69 | 265 | 109 | Α | Н |
| CH 151 | | 5714.84 | 63.3 | -10.7 | 74 | 55.26 | 32.29 | 9.39 | 33.64 | 287 | 86 | Р | V |
| 5755MHz | | 5724.36 | 70.31 | -7.99 | 78.3 | 62.2 | 32.31 | 9.44 | 33.64 | 287 | 86 | Р | V |
| | | 5714.84 | 53.41 | -0.59 | 54 | 45.37 | 32.29 | 9.39 | 33.64 | 287 | 86 | Α | V |
| | * | 5755 | 104.37 | - | - | 96.22 | 32.36 | 9.44 | 33.65 | 287 | 86 | Р | V |
| | * | 5755 | 97.41 | - | - | 89.26 | 32.36 | 9.44 | 33.65 | 287 | 86 | Α | V |
| | | 5854.96 | 51.68 | -26.62 | 78.3 | 43.31 | 32.51 | 9.54 | 33.68 | 287 | 86 | Р | V |
| | | 5880.24 | 52.95 | -21.05 | 74 | 44.57 | 32.53 | 9.54 | 33.69 | 287 | 86 | Р | V |
| | | 5868.88 | 44.54 | -9.46 | 54 | 36.18 | 32.51 | 9.54 | 33.69 | 287 | 86 | Α | ٧ |

Page Number : B16 of B23

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 5704.6 | 56.55 | -17.45 | 74 | 48.5 | 32.29 | 9.39 | 33.63 | 258 | 112 | Р | Н |
| | | 5721.24 | 56.68 | -21.62 | 78.3 | 48.62 | 32.31 | 9.39 | 33.64 | 258 | 112 | Р | Н |
| | | 5704.52 | 48.52 | -5.48 | 54 | 40.47 | 32.29 | 9.39 | 33.63 | 258 | 112 | Α | Н |
| | * | 5795 | 107.02 | - | - | 98.78 | 32.41 | 9.49 | 33.66 | 258 | 112 | Р | Н |
| | * | 5795 | 99.5 | - | - | 91.26 | 32.41 | 9.49 | 33.66 | 258 | 112 | Α | Н |
| | | 5850.8 | 56.09 | -22.21 | 78.3 | 47.75 | 32.48 | 9.54 | 33.68 | 258 | 112 | Р | Н |
| 802.11ac | | 5863.52 | 54.8 | -19.2 | 74 | 46.44 | 32.51 | 9.54 | 33.69 | 258 | 112 | Р | Н |
| VHT40 | | 5863.2 | 46.74 | -7.26 | 54 | 38.38 | 32.51 | 9.54 | 33.69 | 258 | 112 | Α | Н |
| CH 159 | | 5698.76 | 56.01 | -17.99 | 74 | 47.98 | 32.27 | 9.39 | 33.63 | 268 | 86 | Р | ٧ |
| 5795MHz | | 5718.04 | 55.78 | -22.52 | 78.3 | 47.72 | 32.31 | 9.39 | 33.64 | 268 | 86 | Р | V |
| | | 5713.4 | 47.68 | -6.32 | 54 | 39.64 | 32.29 | 9.39 | 33.64 | 268 | 86 | Α | ٧ |
| | * | 5795 | 106.52 | - | - | 98.28 | 32.41 | 9.49 | 33.66 | 268 | 86 | Р | ٧ |
| | * | 5795 | 99.43 | - | - | 91.19 | 32.41 | 9.49 | 33.66 | 268 | 86 | Α | ٧ |
| | | 5856.24 | 58.17 | -20.13 | 78.3 | 49.8 | 32.51 | 9.54 | 33.68 | 268 | 86 | Р | ٧ |
| | | 5862.96 | 57.22 | -16.78 | 74 | 48.86 | 32.51 | 9.54 | 33.69 | 268 | 86 | Р | ٧ |
| | | 5862.72 | 46.92 | -7.08 | 54 | 38.56 | 32.51 | 9.54 | 33.69 | 268 | 86 | Α | ٧ |

Page Number : B17 of B23

No other spurious found.
 All results are PASS again All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------|--------|------------------|--------------|----------|-------------|----------|----------|-------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 11510 | 46.81 | -27.19 | 74 | 27.59 | 40 | 13.95 | 34.73 | 100 | 0 | Р | Н |
| | | 17268 | 48.1 | -25.9 | 74 | 25.64 | 41.49 | 16.95 | 35.98 | 100 | 0 | Р | Н |
| 802.11ac | | | | | | | | | | | | | Н |
| VHT40 | | | | | | | | | | | | | Н |
| CH 151 | | 11510 | 46.45 | -27.55 | 74 | 27.23 | 40 | 13.95 | 34.73 | 100 | 0 | Р | V |
| 5755MHz | | 17268 | 48.07 | -25.93 | 74 | 25.61 | 41.49 | 16.95 | 35.98 | 100 | 0 | Р | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 11590 | 46.36 | -27.64 | 74 | 27.27 | 39.86 | 14 | 34.77 | 100 | 0 | Р | Н |
| | | 17388 | 48.79 | -25.21 | 74 | 26.01 | 41.74 | 17.03 | 35.99 | 100 | 0 | Р | Н |
| 802.11ac | | | | | | | | | | | | | Н |
| VHT40 | | | | | | | | | | | | | Н |
| CH 159 | | 11590 | 46.66 | -27.34 | 74 | 27.57 | 39.86 | 14 | 34.77 | 100 | 0 | Р | V |
| 5795MHz | | 17388 | 48.36 | -25.64 | 74 | 25.58 | 41.74 | 17.03 | 35.99 | 100 | 0 | Р | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| Remark | | o other spurious | | | | | | | | • | | | |
| | 2. All | results are PA | SS against F | Peak and | Average lim | it line. | | | | | | | |

Page Number : B18 of B23

Band 4 5725~5850MHz WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------|------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 5713.4 | 60.46 | -13.54 | 74 | 52.42 | 32.29 | 9.39 | 33.64 | 104 | 116 | Р | Н |
| | | 5724.6 | 63.31 | -14.99 | 78.3 | 55.2 | 32.31 | 9.44 | 33.64 | 104 | 116 | Р | Н |
| | | 5714.68 | 53.44 | -0.56 | 54 | 45.4 | 32.29 | 9.39 | 33.64 | 104 | 116 | Α | Н |
| | * | 5775 | 100.24 | - | - | 92.01 | 32.39 | 9.49 | 33.65 | 104 | 116 | Р | Н |
| | * | 5775 | 93 | - | - | 84.77 | 32.39 | 9.49 | 33.65 | 104 | 116 | Α | Н |
| | | 5855.84 | 56.58 | -21.72 | 78.3 | 48.21 | 32.51 | 9.54 | 33.68 | 104 | 116 | Р | Н |
| 802.11ac | | 5864.08 | 57.95 | -16.05 | 74 | 49.59 | 32.51 | 9.54 | 33.69 | 104 | 116 | Р | Н |
| VHT80 | | 5862.16 | 47.15 | -6.85 | 54 | 38.79 | 32.51 | 9.54 | 33.69 | 104 | 116 | Α | Н |
| CH 155 | | 5713.8 | 58.93 | -15.07 | 74 | 50.89 | 32.29 | 9.39 | 33.64 | 100 | 273 | Р | V |
| 5775MHz | | 5722.28 | 60.6 | -17.7 | 78.3 | 52.49 | 32.31 | 9.44 | 33.64 | 100 | 273 | Р | V |
| | | 5714.76 | 52.13 | -1.87 | 54 | 44.09 | 32.29 | 9.39 | 33.64 | 100 | 273 | Α | V |
| | * | 5775 | 97.89 | - | - | 89.66 | 32.39 | 9.49 | 33.65 | 100 | 273 | Р | V |
| | * | 5775 | 91.4 | - | - | 83.17 | 32.39 | 9.49 | 33.65 | 100 | 273 | Α | V |
| | | 5852.48 | 55.47 | -22.83 | 78.3 | 47.13 | 32.48 | 9.54 | 33.68 | 100 | 273 | Р | V |
| | | 5861.44 | 55.38 | -18.62 | 74 | 47.02 | 32.51 | 9.54 | 33.69 | 100 | 273 | Р | V |
| | | 5862.88 | 46.02 | -7.98 | 54 | 37.66 | 32.51 | 9.54 | 33.69 | 100 | 273 | Α | V |

Remark

Page Number : B19 of B23

^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 4 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------|------|------------------|------------|----------|---------------|---------|----------|--------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 11550 | 47.99 | -26.01 | 74 | 28.86 | 39.92 | 13.97 | 34.76 | 100 | 0 | Р | Н |
| | | 17328 | 49.37 | -24.63 | 74 | 26.75 | 41.6 | 17 | 35.98 | 100 | 0 | Р | Н |
| 802.11ac | | | | | | | | | | | | | Н |
| VHT80 | | | | | | | | | | | | | Н |
| CH 155 | | 11550 | 47.19 | -26.81 | 74 | 28.06 | 39.92 | 13.97 | 34.76 | 100 | 0 | Р | V |
| 5775MHz | | 17328 | 50.03 | -23.97 | 74 | 27.41 | 41.6 | 17 | 35.98 | 100 | 0 | Р | V |
| | | | | | | | | | | | | | ٧ |
| | | | | | | | | | | | | | ٧ |
| Remark | | o other spurious | | Poak and | I Avorago lim | it lino | | | | | | | |

Page Number : B20 of B23

Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------|------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|------|------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | | |
| | | 61.32 | 4.42 | -35.58 | 40 | 30.11 | 5.07 | 1.04 | 31.8 | | | Р | Н |
| | | 149.07 | 20.24 | -23.26 | 43.5 | 40.5 | 10.06 | 1.46 | 31.78 | 100 | 25 | Р | Н |
| | | 241.14 | 14.23 | -31.77 | 46 | 33.35 | 10.86 | 1.79 | 31.77 | | | Р | Н |
| | | 367.2 | 13.93 | -32.07 | 46 | 28.63 | 14.77 | 2.32 | 31.79 | | | Р | Н |
| | | 640.2 | 19.09 | -26.91 | 46 | 29.07 | 19.1 | 2.96 | 32.04 | | | Р | Н |
| | | 918.1 | 22.22 | -23.78 | 46 | 29.78 | 20.18 | 3.55 | 31.29 | | | Р | Н |
| | | | | | | | | | | | | | Н |
| | | | | | | | | | | | | | Н |
| | | | | | | | | | | | | | Н |
| | | | | | | | | | | | | | Н |
| 5GHz | | | | | | | | | | | | | Н |
| 802.11ac | | | | | | | | | | | | | Н |
| VHT80 | | 58.62 | 6.06 | -33.94 | 40 | 31.41 | 5.41 | 1.04 | 31.8 | | | Р | V |
| LF | | 155.55 | 17.62 | -25.88 | 43.5 | 38.16 | 9.78 | 1.46 | 31.78 | | | Р | V |
| | | 261.66 | 12.53 | -33.47 | 46 | 29.43 | 12.93 | 1.94 | 31.77 | | | Р | V |
| | | 316.1 | 12.05 | -33.95 | 46 | 28.25 | 13.46 | 2.11 | 31.77 | | | Р | V |
| | | 643.7 | 19.27 | -26.73 | 46 | 29.25 | 19.1 | 2.96 | 32.04 | | | Р | V |
| | | 932.1 | 22.1 | -23.9 | 46 | 29.34 | 20.26 | 3.68 | 31.18 | 158 | 29 | Р | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | 1 | | | | | | | | | | V |

Page Number : B21 of B23

Note symbol

| * | Fundamental Frequency which can be ignored. However, the level of any unwanted emissions | | | | | | | | |
|-----|--|--|--|--|--|--|--|--|--|
| | shall not exceed the level of the fundamental frequency. | | | | | | | | |
| ! | Test result is over limit line. | | | | | | | | |
| P/A | Peak or Average | | | | | | | | |
| H/V | Horizontal or Vertical | | | | | | | | |

Page Number : B22 of B23

A calculation example for radiated spurious emission is shown as below:

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|----------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | İ | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11b | | 2390 | 55.45 | -18.55 | 74 | 54.51 | 32.22 | 4.58 | 35.86 | 103 | 308 | Р | Н |
| CH 01 | | | | | | | | | | | | | |
| 2412MHz | | 2390 | 43.54 | -10.46 | 54 | 42.6 | 32.22 | 4.58 | 35.86 | 103 | 308 | Α | Н |

1. Level($dB\mu V/m$) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dB μ V/m) – Limit Line(dB μ V/m)

For Peak Limit @ 2390MHz:

- 1. Level($dB\mu V/m$)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level(dBµV/m) Limit Line(dBµV/m)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

For Average Limit @ 2390MHz:

- Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level(dBμV/m) Limit Line(dBμV/m)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

Page Number : B23 of B23