FCC Part 15C

Measurement And Test Report For

JIANGXI TONGGU JIANGQIAO TIMBER&BAMBOO INDUSTRY COMPANY.LTD

XIA YAOPU INDUSTRIAL ZONE TONGGU COUNTY JIANGXI PROVINCE

Model: MG94-N, MG100-N, MG111-N, XX-X

August 3, 2012

| This Report Concerns: | Equipment Type: |
|---------------------------|---|
| ⊠ Original Report | Wireless Mouse |
| Report Number: | MTI120713002RF |
| Test Engineer: | Bill Chen |
| Reviewed By: | Jason Zheng Jason Zheng |
| Approved & Authorized By: | Hebe Lee Hebe Lee |
| Test Date: | July. 25-Aug.3, 2012 |
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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of MTI Technology Laboratory Ltd.

TABLE OF CONTENTS

| 1. GENERAL INFORMATION | |
|--|----|
| 1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) | 3 |
| 1.2 RELATED SUBMITTAL(S) / GRANT (S) | |
| 1.3 Test Methodology | |
| 1.4 Test Facility | |
| 2. SYSTEM TEST CONFIGURATION | 5 |
| 2.1 EUT Configuration | 5 |
| 2.2 EUT Exercise | |
| 2.3 GENERAL TEST PROCEDURES | |
| 2.4 LIST OF MEASURING EQUIPMENTS USED | |
| 3. SUMMARY OF TEST RESULTS | 7 |
| 3.1 SUMMARY OF TEST RESULT | 7 |
| 3.2 ASSISTANT EQUIPMENT USED FOR TEST | |
| 3.3 BLOCK DIAGRAM | 7 |
| 4. ANTENNA REQUIREMENT | 8 |
| 4.1 STANDARD APPLICABLE | 8 |
| 4.2 ANTENNA CONNECTED CONSTRUCTION | |
| 5. CONDUCTED DISTURBANCES | g |
| 5.1. Measurement Uncertainty | |
| 5.2. LIMIT OF CONDUCTED DISTURBANCES (CLASS B) | |
| 5.3. EUT SETUP | |
| 5.4. Instrument Setup | 9 |
| 5.5. TEST PROCEDURE | |
| 5.6. SUMMARY OF TEST RESULTS | |
| 5.7. TEST RESULT | 10 |
| 6. 20-DB BANDWIDTH | 11 |
| 6.1 LIMITS OF 20-DB BANDWIDTH MEASUREMENT | |
| 6.2 EUT SETUP | |
| 6.3 TEST EQUIPMENT LIST AND DETAILS | |
| 6.4 Test Procedure | |
| | |
| 7. FIELD STRENGTH OF SPURIOUS EMISSIONS | 14 |
| 7.1 LIMITS OF RADIATED EMISSION MEASUREMENT | |
| 7.2 EUT SETUP | |
| 7.3 TEST EQUIPMENT LIST AND DETAILS | |
| 7.4 Test Procedure | |
| | |
| 8. BAND EDGES MEASUREMENT | _ |
| 8.1 LIMITS OF BAND EDGES MEASUREMENT | |
| 8.2 TEST EQUIPMENT LIST AND DETAILS | |
| 9.4 Trot Brount | |

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Applicant: JIANGXI TONGGU JIANGQIAO TIMBER&BAMBOO

INDUSTRY COMPANY.LTD

Address of applicant: XIA YAOPU INDUSTRIAL ZONE TONGGU COUNTY

JIANGXI PROVINCE

Manufacturer: JIANGXI TONGGU JIANGQIAO TIMBER&BAMBOO

INDUSTRY COMPANY.LTD

Address of manufacturer: XIA YAOPU INDUSTRIAL ZONE TONGGU COUNTY

JIANGXI PROVINCE

Equipment Under Test: Wireless Mouse

Trade Name: N/A

Tested Model No.: MG94-N

Supplementary Models

No.:

MG100-N,MG111-N,XX-X(the first X can be made of 1-3 letters from A to Z,the second X can be made of 1-9999 numbers,the third X can be made of 1-2 letters from A to Z) Remark: supplementary models are only different in exterior with tested Model and with the same circuit construction

FCC ID: ZEQJQM

Type of Modulation: GFSK

Frequency Band: 2402 MHz ~ 2480MHz

Number of Channels: 79

Channel Separation: 1MHz

Type of Antenna: Integral Antenna, Max Gain 0dBi

Power Supply: DC 3V from battery

Remark: * The test data gathered are from the production sample provided by the manufacturer.

1.2 Related Submittal(s) / Grant (s)

This submittal(s) is a test report based on the Electromagnetic Interference (EMI) tests performed on the EUT. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4 - 2003.

The tests were performed in order to determine compliance with FCC Part 15:2011, Subpart C, and section 15.203, 15.207, and 15.249 rules.

Report No.: MTI120713002RF Page 3 of 24

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 - 2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Test Facility

All measurement required was performed at laboratory of NTEK Testing Technology Co., Ltd., at 1/F, Building E, Fenda Science Park Sanwei Community, Xixiang Street, Baoan District, Shenzhen, Guangdong

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

FCC – Registration No.: 238937

NTEK Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 238937.

Report No.: MTI120713002RF Page 4 of 24

2. SYSTEM TEST CONFIGURATION

The tests documented in this report were performed in accordance with ANSI C63.4-2003 and FCC CFR 47 Part 15 Subpart C.

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 3 or 10 meters from the leading edge of the turntable.

2.3 General Test Procedures

Conducted Emissions The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 7.1 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak detector mode.

Radiated Emissions The EUT is a placed on as turntable, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4-2003.

Report No.: MTI120713002RF Page 5 of 24

2.4 List of Measuring Equipments Used

| Items | Equipment | Manufacturer | Model No. | Serial No. | Last Cal | Calibration Period |
|-------|------------------------------------|--------------------|---------------|-----------------|------------|-----------------------|
| | | | | | | |
| 1 | EMI Test Receiver | ROHDE & SCHWARZ | ESI 26 | 100079 | 2011/11/18 | 1 year |
| 2 | Horn Antenna | R/S | CH14- H052 | 1091698 | 2011/11/18 | 1 year |
| 3 | 3m Semi- Anechoic Chamber | ETS | N/A | N/A | 2011/11/18 | 1 year |
| 4 | LISN | ROHDE&SCHWARZ | ESH3-Z5 | 100305 | 2011/11/18 | 1 year |
| 5 | Pulse Limiter | ROHDE&SCHWARZ | ESH3-Z2 | 100305 | 2011/11/18 | 1 year |
| | | | | | | |
| 1 | EMI Test Receiver | ROHDE & SCHWARZ | ESCS30 | 100038 | 2011/11/18 | 1 year |
| 2 | EMI Test Receiver | ROHDE & SCHWARZ | ESI 26 | 100009 | 2011/11/18 | 1 year |
| 3 | Receiver/ Spectrum Analyzer | ROHDE & SCHWARZ | ESCI | 100106 | 2011/11/18 | 1 year |
| 4 | Spectrum Analyzer | Agilent | E7405A | US41160415 | 2011/11/18 | 1 year |
| 5 | Artificial Mains | ROHDE & SCHWARZ | ESH2-Z5 | 100028 | 2011/11/18 | 1 year |
| 6 | Pulse Limiter | ROHDE & SCHWARZ | ESHSZ2 | 100044 | 2011/11/18 | 1 year |
| 7 | LISN | COM Power | LI-200 | 12212 | 2011/11/18 | 1 year |
| 8 | LISN | COM Power | LI-200 | 12019 | 2011/11/18 | 1 year |
| 9 | 3m/5m Semi- Anechoic Chamber | ETS | N/A | N/A | 2011/11/18 | 1 year |
| 10 | Ultra-Broadband Antenna | R/S | HL562 | 100015 | 2011/11/18 | 1 year |
| 11 | Horn Antenna | R/S | HF906 | 100039 | 2011/11/18 | 1 year |
| 12 | Loop Antenna | R&S | FMZB1516 | 1516131 | 2011/11/18 | 1Year |
| 13 | Bilog Antenna | Sunol | JB3 | A121206 | 2011/11/18 | 1Year |
| 14 | RF Test Panel | R/S | TS / RSP | 335015/ 0017 | N/A | N/A |
| 15 | Turntable | ETS | 2088 | 2149 | N/A | N/A |
| 16 | Antenna Mast | ETS | 2075 | 2346 | N/A | N/A |

Report No.: MTI120713002RF Page 6 of 24

3. SUMMARY OF TEST RESULTS

3.1 Summary of test result

| FCC Rules | Description of Test | Result |
|----------------------|---------------------|--------|
| 15.203/15.249(b)/(c) | Antenna Requirement | Pass |
| 15.207 | Conduction Emission | N/A |
| 15.249 | 20dB Bandwidth | Pass |
| 15.209(a)(f) | Radiated Emission | Pass |
| 15.249 | Band edge | Pass |

Note: N/A is not applicable.

3.2 Assistant equipment used for test

Description : N/A
Manufacturer : N/A
Model No. : N/A

3.3 Block Diagram

EUT

Report No.: MTI120713002RF Page 7 of 24

4. ANTENNA REQUIREMENT

4.1 Standard Applicable

Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Section 15.247(b)/(c):

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

If the intentional radiator is used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

4.2 Antenna Connected Construction

This product has a integral antenna, Max Gain 0dBi, fulfill the requirement of this section.

Report No.: MTI120713002RF Page 8 of 24

5. CONDUCTED DISTURBANCES

5.1. Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is +2.4 dB.

5.2. Limit of Conducted Disturbances (Class B)

| Fraguency Pango (MHz) | Limits (dBuV) | | | | |
|-----------------------|----------------|---------|--|--|--|
| Frequency Range (MHz) | Quasi-Peak | Average | | | |
| 0.150~0.500 | 66∼56 | 56~46 | | | |
| 0.500~5.000 | 56 | 46 | | | |
| 5.000~30.00 | 60 | 50 | | | |

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

5.3. EUT Setup

The setup of EUT is according with CISPR 16-1: 2002, CISPR16-2: 2002 measurement procedure.

The EUT was placed center and the back edge of the test table.

The cables were draped along the test table and bundled to 30-40cm in the middle.

The spacing between the peripherals was 10 cm.

Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.

5.4. Instrument Setup

The test receiver was set with the following configurations:

Test Receiver Setting:

Frequency Range......150 KHz to 30 MHz

Detector.....Peak & Quasi-Peak & Average

Report No.: MTI120713002RF Page 9 of 24

5.5. Test Procedure

During the conducted emission test, the EUT power cord was connected to the auxiliary outlet of the first Artificial Mains.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance using all installation combination.

All data was recorded in the peak detection mode. Quasi-peak and Average readings were only performed when an emission was found to be marginal (within -10 dB $_{\mu}$ V of specification limits). Quasi-peak readings are distinguished with a "QP". Average readings are distinguished with a "AV".

5.6. Summary of Test Results

According to the data in section 3.6, the worst margin reading of:

EUT Configuration on Test

Wireless Mouse

Model Number : MG94-N

Serial Number : N/A

JIANGXI TONGGU JIANGQIAO TIMBER&BAMBOO

Applicant : INDUSTRY COMPANY.LTD

5.7. Test Result

EUT Power supply by battery, so the test not applicable.

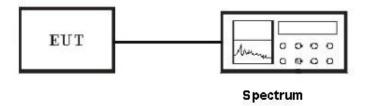
Report No.: MTI120713002RF Page 10 of 24

6. 20-dB BANDWIDTH

6.1 Limits of 20-dB Bandwidth Measurement

Please refer section 15.249

6.2 EUT Setup



6.3 Test Equipment List and Details

See section 2.4.

6.4 Test Procedure

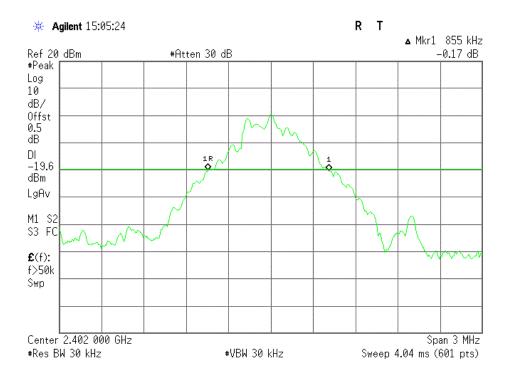
- 1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set center frequency of spectrum analyzer = operating frequency.
- 3. The spectrum analyzer as RBW=30 KHz, VBW=30 KHz, Sweep=auto
- 4. Mark the peak frequency and –20dB (upper and lower) frequency.

6.5 Test Result /Plots

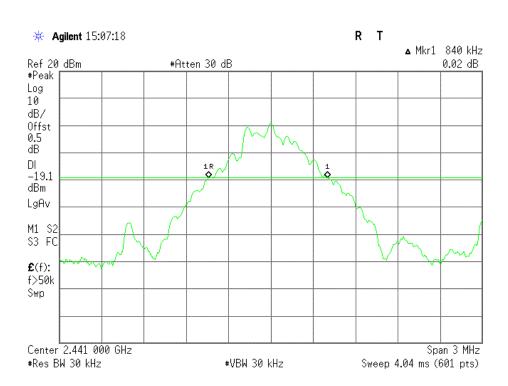
| Frequency MHz | 20 dB Bandwidth kHz | Limit dB |
|------------------|------------------------|-------------|
| 2402 | 855 | / |
| 2441 | 840 | / |
| 2480 | 850 | / |

Report No.: MTI120713002RF Page 11 of 24

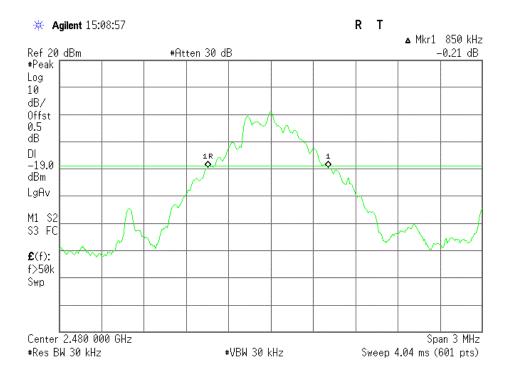
CH Low



Mid CH



High CH



7. FIELD STRENGTH OF SPURIOUS EMISSIONS

7.1 Limits of Radiated Emission Measurement

According to §15.249, 15.205 15.209(b) &15.35 (b), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Section 15.209: 0.009-0.490MHz 67.6 dBuV/m /F (KHz) @300M 0.490-1.705MHz 87.6 dBuV/m /F (KHz) @30M 1.705-30MHz 29.5 dBuV/m @30M 30 - 88 MHz 40 dBuV/m @3M 88 -216 MHz 43.5 dBuV/m @3M 216 -960 MHz 46 dBuV/m @3M

Section 15.209: Carrier frequency 93.97dBuV/m@3M

Above 960 MHz 54dBuV/m @3M

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

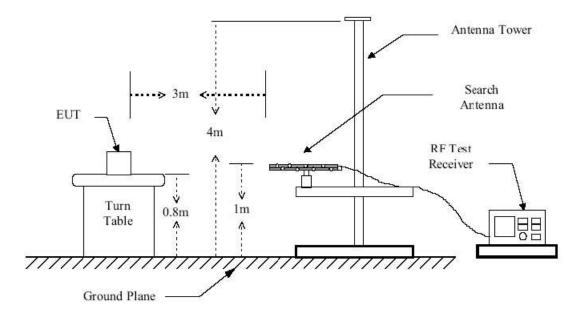
Emissions Radiated Outside Of The Specified Frequency Bands, Except For Harmonics, Shall Be Attenuated By At Least 20 Db Below The Level Of The Fundamental Or To The General Radiated Emission Limits In 15.209, Whichever Is The Lesser Attenuation.

Emissions that fall in the restricted bands (15.205) must be less than 54dBuV/m otherwise the spurious and harmonics must be attenuated by at least 20dB.

Note: 30m to 3m correction factor calculation: 40*Log(30m/3m)=40

7.2 EUT Setup

Radiated Measurement Setup



Report No.: MTI120713002RF Page 14 of 24

7.3 Test Equipment List and Details

See section 2.4.

7.4 Test Procedure

- 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3. The antenna 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 polarizations of the antenna are set to make the measurement.
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable 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 the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

NOTE:

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

7.5 Test Result

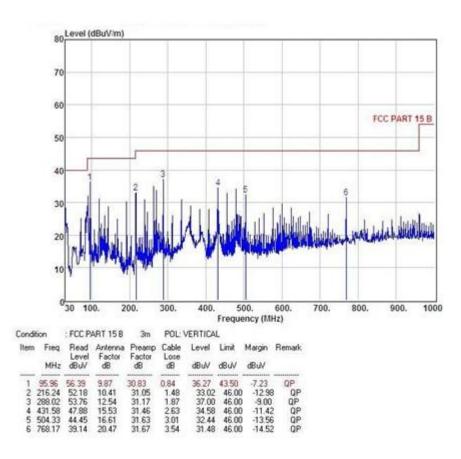
We have scanned the 5th harmonic from 9KHz to the EUT. Detailed information please see the following page.

From 9KHz to 30MHz: Conclusion: PASS

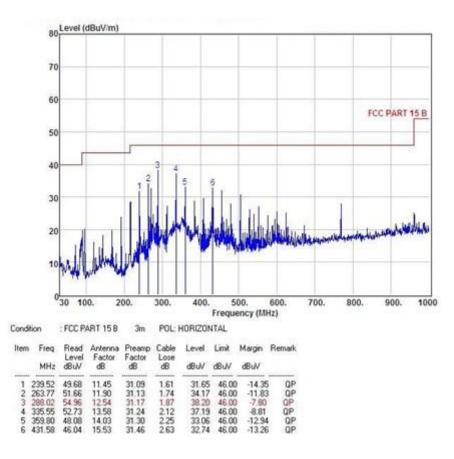
Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Report No.: MTI120713002RF Page 15 of 24

Vertical



Horizontal



Spurious emission above 1G

| Frequency MHz | Detector | Meter Reading dBuV | Polar H / V | Antenna Loss dB | Cable loss dB | Amplifier dB | Correction Amplitude dBuV/m | Limit dBuV/m | Margin dB |
|---------------|---------------------------|--------------------|----------------|--------------------|------------------|--------------|-----------------------------------|-----------------|--------------|
| | Low Channel (1G to 25GHz) | | | | | | | | |
| 4804.0 | AV | 40.1 | Н | 34.1 | 5.2 | 33.0 | 46.4 | 54 | -7.6 |
| 4804.0 | AV | 39.3 | V | 34.1 | 5.2 | 33.0 | 45.6 | 54 | -8.4 |
| 7206.0 | AV | 32.7 | Н | 37.4 | 6.1 | 33.5 | 42.7 | 54 | -11.3 |
| 7206.0 | AV | 31.1 | V | 37.4 | 6.1 | 33.5 | 41.1 | 54 | -12.9 |
| 2402.0 | AV | 80.97 | Н | 29.1 | 3.7 | 34.0 | 79.77 | 93.97 | -14.2 |
| 2402.0 | AV | 78.87 | V | 29.1 | 3.7 | 34.0 | 77.67 | 93.97 | -16.3 |
| 4804.0 | PK | 47.2 | Н | 34.1 | 5.2 | 33.0 | 53.5 | 74 | -20.5 |
| 4804.0 | PK | 46.3 | V | 34.1 | 5.2 | 33.0 | 52.6 | 74 | -21.4 |
| 7206.0 | PK | 44.3 | Н | 37.4 | 6.1 | 33.5 | 54.3 | 74 | -19.7 |
| 7206.0 | PK | 43.2 | V | 37.4 | 6.1 | 33.5 | 53.2 | 74 | -20.8 |
| 2402.0 | PK | 90.37 | Н | 29.1 | 3.7 | 34.0 | 89.17 | 113.97 | -24.8 |
| 2402.0 | PK | 89.87 | V | 29.1 | 3.7 | 34.0 | 88.67 | 113.97 | -25.3 |
| | | I | Middle | Channel (| 1G to 25 | GHz) | | | |
| 4882.0 | AV | 38.2 | Н | 34.1 | 5.2 | 33.0 | 44.5 | 54 | -9.5 |
| 4882.0 | AV | 37.6 | V | 34.1 | 5.2 | 33.0 | 43.9 | 54 | -10.1 |
| 7323.0 | AV | 31.6 | Н | 37.4 | 6.1 | 33.5 | 41.6 | 54 | -12.4 |
| 7323.0 | AV | 30.3 | V | 37.4 | 6.1 | 33.5 | 40.3 | 54 | -13.7 |
| 2441.0 | AV | 81.4 | Н | 29.1 | 3.7 | 34.0 | 80.17 | 93.97 | -13.8 |
| 2441.0 | AV | 79.47 | V | 29.1 | 3.7 | 34.0 | 78.27 | 93.97 | -15.7 |
| 4882.0 | PK | 46.2 | Н | 34.1 | 5.2 | 33.0 | 52.5 | 74 | -21.5 |
| 4882.0 | PK | 45.1 | V | 34.1 | 5.2 | 33.0 | 51.4 | 74 | -22.6 |
| 7323.0 | PK | 43.2 | Н | 37.4 | 6.1 | 33.5 | 53.2 | 74 | -20.8 |
| 7323.0 | PK | 42.3 | V | 37.4 | 6.1 | 33.5 | 52.3 | 74 | -21.7 |
| 2441.0 | PK | 90.57 | Н | 29.1 | 3.7 | 34.0 | 89.37 | 113.97 | -24.6 |
| 2441.0 | PK | 89.47 | V | 29.1 | 3.7 | 34.0 | 88.27 | 113.97 | -25.7 |

Report No.: MTI120713002RF Page 18 of 24

| High Channel (1G to 25GHz) | | | | | | | | | |
|----------------------------|----|-------|---|------|-----|------|-------|--------|-------|
| 4960.0 | AV | 38.2 | Н | 34.1 | 5.2 | 33.0 | 44.5 | 54 | -9.5 |
| 4960.0 | AV | 37.4 | V | 34.1 | 5.2 | 33.0 | 43.7 | 54 | -10.3 |
| 7440.0 | AV | 32.2 | Н | 37.4 | 6.1 | 33.5 | 42.2 | 54 | -11.8 |
| 7440.0 | AV | 31.6 | V | 37.4 | 6.1 | 33.5 | 41.6 | 54 | -12.4 |
| 2480.0 | AV | 80.97 | Н | 29.1 | 3.7 | 34.0 | 79.77 | 93.97 | -14.2 |
| 2480.0 | AV | 81.27 | V | 29.1 | 3.7 | 34.0 | 80.07 | 93.97 | -13.9 |
| 4960.0 | PK | 46.1 | Н | 34.1 | 5.2 | 33.0 | 52.4 | 74 | -21.6 |
| 4960.0 | PK | 44.3 | V | 34.1 | 5.2 | 33.0 | 50.6 | 74 | -23.4 |
| 7440.0 | PK | 43.5 | Н | 37.4 | 6.1 | 33.5 | 53.5 | 74 | -20.5 |
| 7440.0 | PK | 42.1 | V | 37.4 | 6.1 | 33.5 | 52.1 | 74 | -21.9 |
| 2480.0 | PK | 91.37 | Н | 29.1 | 3.7 | 34.0 | 90.17 | 113.97 | -23.8 |
| 2480.0 | PK | 92.47 | V | 29.1 | 3.7 | 34.0 | 91.27 | 113.97 | -22.7 |

Note: Testing is carried out with frequency rang 30MHz to the tenth harmonics, which above 5th Harmonics is close to the noise base even antenna close up to 1meter distance according the measurement of ANSI C63.4.

Report No.: MTI120713002RF Page 19 of 24

8. Band Edges Measurement

8.1 Limits of Band Edges Measurement

Please refer section 15.249

8.2 Test Equipment List and Details

See section 2.4.

8.3 Test Procedure

Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded. The spectrum plots (Peak RBW=VBW=100 kHz; Average RBW=1 MHz, VBW=10 Hz) are attached on the following pages.

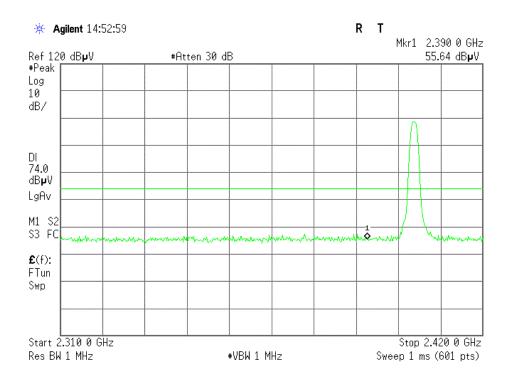
8.4 Test Result

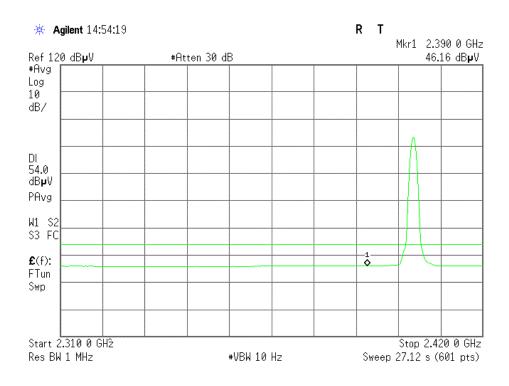
| Test mode | Frequency MHz | Limit dBuV /dB | Result |
|-----------|------------------|-------------------|--------|
| Lowest | 2390.00 | <54dBuv | Pass |
| Lowest | 2400.00 | >20dB | Pass |
| Highest | 2483.50 | <54DBUV | PASS |

The edge emissions are below the FCC 15.209 Limits. Please refer to the test plots below.

Report No.: MTI120713002RF Page 20 of 24

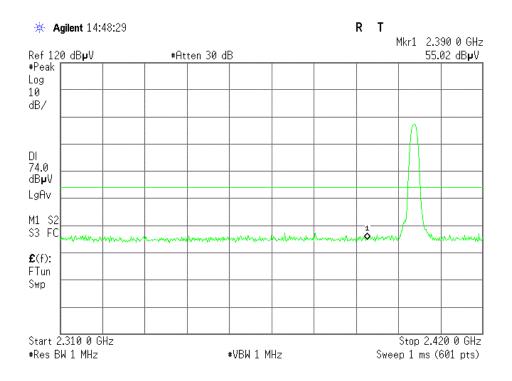
Lowest Bandedge-Horizontal

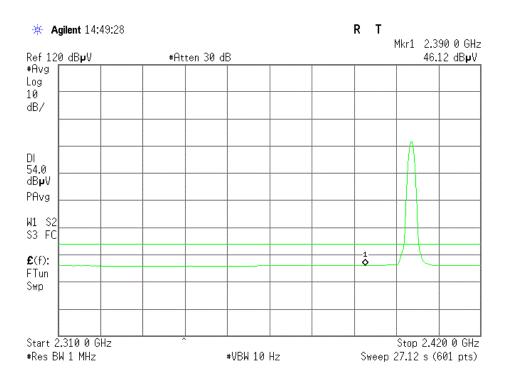




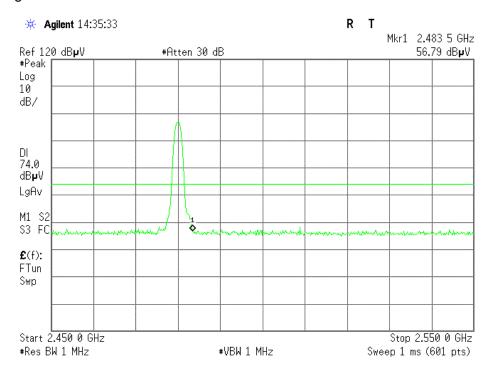
Report No.: MTI120713002RF Page 21 of 24

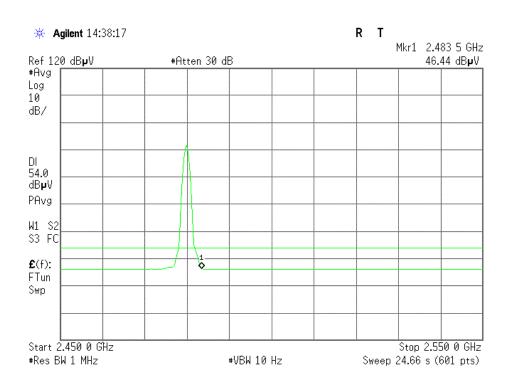
Lowest Bandedge- Vertical





High Bandedge-Horizontal





High Bandedge-Vertical

