RADIO TEST REPORT FCC ID: 2AJU3RT707

Product: Mini Wireless Game Controller Mouse

Keyboard Combo

Trade Mark: Rii

Model No.: RT707

RT707S, RT707+, RT707BT, RK707, RK707S, RK707+, RK707BT, ZW-707, ZW RT707+

Family Model: ZW-RT707, ZW-RT707S, ZW-RT707+,

ZW-RT707BT, ZW-RK707, ZW-RK707S, ZW-RK707+,

ZW-RK707BT

Report No.: \$19041703001001

Issue Date: May 08, 2019

Prepared for

Shenzhen Reiie intelligent technology Co.,ltd 401,4F, NO.1 Building,Zhongkenuo Industry Park, Hezhou Development Zone, Xixiang Street, Baoan District, Shenzhen City, China

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China

Tel.: +86-755-6115 6588 Fax.: +86-755-6115 6599 Website:http://www.ntek.org.cn

Version.1.2 Page 1 of 42





TABLE OF CONTENTS

| 1 T | EST RESULT CERTIFICATION | 3 |
|-----|--|----|
| 2 S | UMMARY OF TEST RESULTS | 4 |
| 3 F | ACILITIES AND ACCREDITATIONS | 5 |
| 3.1 | FACILITIES | 5 |
| 3.2 | LABORATORY ACCREDITATIONS AND LISTINGS | |
| 3.3 | MEASUREMENT UNCERTAINTY | 5 |
| 4 G | ENERAL DESCRIPTION OF EUT | 6 |
| 5 D | ESCRIPTION OF TEST MODES | 8 |
| 6 S | ETUP OF EQUIPMENT UNDER TEST | 9 |
| 6.1 | BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM | |
| 6.2 | SUPPORT EQUIPMENT | 10 |
| 6.3 | EQUIPMENTS LIST FOR ALL TEST ITEMS | |
| 7 T | EST REQUIREMENTS | 13 |
| 7.1 | CONDUCTED EMISSIONS TEST | 13 |
| 7.2 | RADIATED SPURIOUS EMISSION | 18 |
| 7.3 | 6DB BANDWIDTH | |
| 7.4 | PEAK OUTPUT POWER | |
| 7.5 | POWER SPECTRAL DENSITY | 33 |
| 7.6 | CONDUCTED BAND EDGE MEASUREMENT | |
| 7.7 | SPURIOUS RF CONDUCTED EMISSIONS | |
| 7.8 | ANTENNA APPLICATION | 42 |





1 TEST RESULT CERTIFICATION

| Applicant's name | Shenzhen Reiie intelligent technology Co.,ltd | | |
|------------------------------|---|--|--|
| Address | 401,4F, NO.1 Building,Zhongkenuo Industry Park, Hezhou Developme Zone, Xixiang Street, Baoan District, Shenzhen City, China | | |
| Manufacturer's Name | Shenzhen Reiie intelligent technology Co.,ltd | | |
| Address | 401,4F, NO.1 Building,Zhongkenuo Industry Park, Hezhou Development Zone, Xixiang Street, Baoan District, Shenzhen City, China | | |
| Product description | | | |
| Product name: | Mini Wireless Game Controller Mouse Keyboard Combo | | |
| Model and/or type reference: | RT707 | | |
| Family Model: | Refer to page 1 | | |

Measurement Procedure Used:

| APPLICABLE STANDARDS | | | | |
|--|-------------|--|--|--|
| APPLICABLE STANDARD/ TEST PROCEDURE | TEST RESULT | | | |
| FCC 47 CFR Part 2, Subpart J | | | | |
| FCC 47 CFR Part 15, Subpart C | | | | |
| KDB 174176 D01 Line Conducted FAQ v01r01 | Complied | | | |
| ANSI C63.10-2013 | | | | |
| KDB 558074 D01 15.247 Meas Guidance v05r02 | | | | |

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK Testing Technology Co., Ltd., this document may be altered or revised by Shenzhen NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

The test results of this report relate only to the tested sample identified in this report.

| Date of Test | | 14 Apr. 2019 ~ 07 May. 2019 |
|----------------------|------------|-----------------------------|
| Testing Engineer | : <u> </u> | Eileen Wu. |
| | | (Eileen Liu) |
| Technical Manager | : | Jason chen |
| · · | | (Jason Chen) |
| | | |
| | | Sam. Cher |
| Authorized Signatory | : | |
| | | (Sam Chen) |

Version.1.2 Page 3 of 42

SUMMARY OF TEST RESULTS

| FCC Part15 (15.247), Subpart C | | | | | | |
|---|--------------------------------|------|--|--|--|--|
| Standard Section Test Item Verdict Remark | | | | | | |
| 15.207 | Conducted Emission | PASS | | | | |
| 15.247 (a)(2) | 6dB Bandwidth | PASS | | | | |
| 15.247 (b) | Peak Output Power | PASS | | | | |
| 15.209 (a) 15.205 (a) | Radiated Spurious Emission | PASS | | | | |
| 15.247 (e) | Power Spectral Density | PASS | | | | |
| 15.247 (d) | Band Edge Emission | PASS | | | | |
| 15.247 (d) | Spurious RF Conducted Emission | PASS | | | | |
| 15.203 | Antenna Requirement | PASS | | | | |

Remark:

- "N/A" denotes test is not applicable in this Test Report.
 All test items were verified and recorded according to the standards and without any deviation during the test.

Version.1.2 Page 4 of 42

3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

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

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)

The Certificate Registration Number is L5516.

IC-Registration The Certificate Registration Number is 9270A-1.

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for

the competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

| No. | Item | Uncertainty |
|-----|-------------------------------------|-------------|
| 1 | Conducted Emission Test | ±2.80dB |
| 2 | RF power, conducted | ±0.16dB |
| 3 | Spurious emissions, conducted | ±0.21dB |
| 4 | All emissions, radiated(30MHz~1GHz) | ±2.64dB |
| 5 | All emissions, radiated(1GHz~6GHz) | ±2.40dB |
| 6 | All emissions, radiated(>6GHz) | ±2.52dB |
| 7 | Temperature | ±0.5°C |
| 8 | Humidity | ±2% |

Version.1.2 Page 5 of 42

4 GENERAL DESCRIPTION OF EUT

| Product Feature and Specification | | | | | | |
|--|---|--|--|--|--|--|
| Equipment Mini Wireless Game Controller Mouse Keyboard Combo | | | | | | |
| Trade Mark Rii | | | | | | |
| FCC ID | 2AJU3RT707 | | | | | |
| Model No. | RT707 | | | | | |
| Family Model | RT707S, RT707+, RT707BT, RK707, RK707S, RK707+, RK707BT, ZW-707, ZW-RT707, ZW-RT707S, ZW-RT707+, ZW-RT707BT, ZW-RK707, ZW-RK707BT | | | | | |
| Model Difference | All models are the same circuit and RF module, except the model name. | | | | | |
| Operating Frequency | 2407MHz~2477MHz | | | | | |
| Modulation GFSK | | | | | | |
| Number of Channels | 16 Channels | | | | | |
| Antenna Type | PCB Antenna | | | | | |
| Antenna Gain | 1dBi | | | | | |
| Power supply | ☑DC supply: DC 3.7V/650mAh from Battery or DC 5V from USB Port | | | | | |
| | ☐Adapter supply: | | | | | |
| HW Version | RT707_2.4G_game_20180829_V5.0 | | | | | |
| SW Version RT707_2535_Tx_20180816_,bin | | | | | | |

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

Version.1.2 Page 6 of 42





Revision History

| Report No. | Version | Description | Issued Date |
|-----------------|---------|-------------------------|--------------|
| S19041703001001 | Rev.01 | | May 08, 2019 |
| 319041703001001 | Rev.u1 | Initial issue of report | Way 06, 2019 |
| | | | |
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Version.1.2 Page 7 of 42





5 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 1 | 2407 | 7 | 2435 | 13 | 2467 |
| 2 | 2408 | 8 | 2437 | 14 | 2468 |
| 3 | 2410 | 9 | 2440 | 15 | 2469 |
| 4 | 2414 | 10 | 2441 | 16 | 2477 |
| 5 | 2421 | 11 | 2442 | | |
| 6 | 2428 | 12 | 2455 | | |

The following summary table is showing all test modes to demonstrate in compliance with the standard

| The following summary table is showing all test modes to demonstrate in compliance with the standard. | | | | | |
|---|------------------------------------|--|--|--|--|
| Test Cases | | | | | |
| Test Item | Data Rate/ Modulation | | | | |
| rest item | GFSK | | | | |
| AC Conducted Emission | Mode 1: normal link mode | | | | |
| | Mode 1: normal link mode | | | | |
| Radiated Test | Mode 2: 2.4G Tx Ch01_2407MHz_1Mbps | | | | |
| Cases | Mode 3: 2.4G Tx Ch09_2440MHz_1Mbps | | | | |
| | Mode 4: 2.4G Tx Ch16_2477MHz_1Mbps | | | | |
| Conducted Test | Mode 2: 2.4G Tx Ch01_2407MHz_1Mbps | | | | |
| Conducted rest | Mode 3: 2.4G Tx Ch09_2440MHz_1Mbps | | | | |
| Cases | Mode 4: 2.4G Tx Ch16_2477MHz_1Mbps | | | | |

Note:

- The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
- 2. AC power line Conducted Emission was tested under maximum output power.
- 3. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.
- 4. EUT is set to continuous transmission mode. duty cycle greater than 98%.
- 5. EUT built-in battery-powered. The battery is fully-charged.

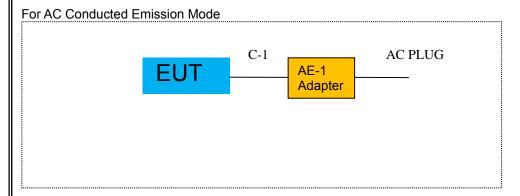
Version.1.2 Page 8 of 42





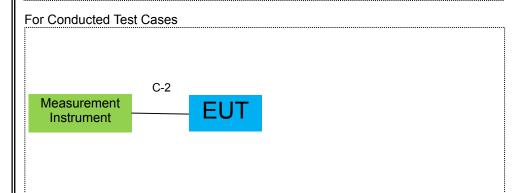
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



For Radiated Test Cases

EUT



Note:The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

Version.1.2 Page 9 of 42





6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| icoio. | | | | | |
|--------|-----------|-----------|-------------------|------------|-------------|
| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
| AE-1 | Adapter | SIMP | KSAPK0110500200D5 | N/A | Peripherals |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Item | Cable Type | Shielded Type | Ferrite Core | Length |
|------|------------|---------------|--------------|--------|
| C-1 | USB Cable | NO | NO | 1.0m |
| C-2 | RF Cable | YES | NO | 0.1m |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Notes:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

Version.1.2 Page 10 of 42





6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

| Radiatio | on& Conducted I | lest equipment | | | | | |
|----------|---|-----------------|-----------------|-------------------|------------------|------------------|---------------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibrati on period |
| 1 | Spectrum Analyzer | Aglient | E4407B | MY45108040 | 2018.05.19 | 2019.05.18 | 1 year |
| 2 | Spectrum Analyzer | Agilent | N9020A | MY49100060 | 2018.10.08 | 2019.10.07 | 1 year |
| 3 | Spectrum Analyzer | R&S | FSV40 | 101417 | 2018.10.08 | 2019.10.07 | 1 year |
| 4 | Test Receiver | R&S | ESPI7 | 101318 | 2018.05.19 | 2019.05.18 | 1 year |
| 5 | Bilog Antenna | TESEQ | CBL6111D | 31216 | 2019.04.15 | 2020.04.14 | 1 year |
| 6 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200983705 | 2018.05.19 | 2020.05.18 | 2 year |
| 7 | Horn Antenna | EM | EM-AH-1018 0 | 2011071402 | 2019.04.15 | 2020.04.14 | 1 year |
| 8 | Broadband Horn Antenna | SCHWARZBE CK | BBHA 9170 | 803 | 2018.12.11 | 2019.12.10 | 1 year |
| 9 | Amplifier | EMC | EMC051835 SE | 980246 | 2018.08.05 | 2019.08.04 | 1 year |
| 10 | Active Loop Antenna | SCHWARZBE CK | FMZB 1519 B | 055 | 2018.12.11 | 2019.12.10 | 1 year |
| 11 | Power Meter | DARE | RPR3006W | 15I00041SN O84 | 2018.08.05 | 2019.08.04 | 1 year |
| 12 | Test Cable (9KHz-30MHz) | N/A | R-01 | N/A | 2017.04.21 | 2020.04.20 | 3 year |
| 13 | Test Cable (30MHz-1GHz) | N/A | R-02 | N/A | 2017.04.21 | 2020.04.20 | 3 year |
| 14 | High Test Cable(1G-40G Hz) | N/A | R-03 | N/A | 2017.04.21 | 2020.04.20 | 3 year |
| 15 | High Test Cable(1G-40G Hz) | N/A | R-04 | N/A | 2017.04.21 | 2020.04.20 | 3 year |
| 16 | Filter | TRILTHIC | 2400MHz | 29 | 2017.04.19 | 2020.04.18 | 3 year |
| 17 | temporary antenna connector (Note) | NTS | R001 | N/A | N/A | N/A | N/A |

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list

Version.1.2 Page 11 of 42





| AC Co | AC Conduction Test equipment | | | | | | |
|-------|--------------------------------|-----------------|-----------|------------|------------------|------------------|--------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibration period |
| 1 | Test Receiver | R&S | ESCI | 101160 | 2018.05.19 | 2019.05.18 | 1 year |
| 2 | LISN | R&S | ENV216 | 101313 | 2018.10.08 | 2019.10.07 | 1 year |
| 3 | LISN | SCHWARZBE CK | NNLK 8129 | 8129245 | 2018.05.19 | 2019.05.18 | 1 year |
| 4 | 50Ω Coaxial Switch | ANRITSU CORP | MP59B | 6200983704 | 2018.05.19 | 2020.05.18 | 2 year |
| 5 | Test Cable (9KHz-30MH z) | N/A | C01 | N/A | 2017.04.21 | 2020.04.20 | 3 year |
| 6 | Test Cable (9KHz-30MH z) | N/A | C02 | N/A | 2017.04.21 | 2020.04.20 | 3 year |
| 7 | Test Cable (9KHz-30MH z) | N/A | C03 | N/A | 2017.04.21 | 2020.04.20 | 3 year |

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.

Version.1.2 Page 12 of 42





7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a) and KDB 174176 D01 Line Conducted FAQ v01r01

7.1.2 Conformance Limit

| Fraguanov(MHz) | Conducted Emission Limit | | | |
|----------------|--------------------------|---------|--|--|
| Frequency(MHz) | Quasi-peak | Average | | |
| 0.15-0.5 | 66-56* | 56-46* | | |
| 0.5-5.0 | 56 | 46 | | |
| 5.0-30.0 | 60 | 50 | | |

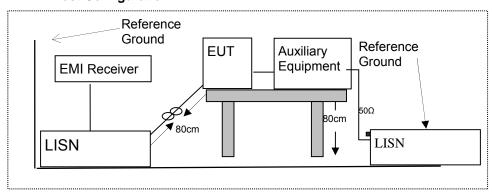
Note: 1. *Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
- 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Version.1.2 Page 13 of 42



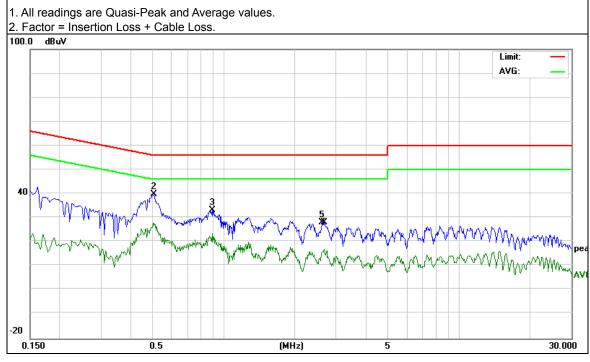


7.1.6 **Test Results**

| - • | | Model Name : | RT707 |
|-------------------------|------------------------------------|-----------------------|--------|
| Temperature: | 126 T | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Phase : | L |
| Test Voltage: | DC 5V from Adapter AC 120V/60Hz | Test Mode: | Mode 1 |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | Remark |
| 0.5020 | 18.12 | 9.74 | 27.86 | 46.00 | -18.14 | AVG |
| 0.5060 | 30.20 | 9.74 | 39.94 | 56.00 | -16.06 | QP |
| 0.8900 | 23.63 | 9.74 | 33.37 | 56.00 | -22.63 | QP |
| 0.8900 | 13.77 | 9.74 | 23.51 | 46.00 | -22.49 | AVG |
| 2.6220 | 18.50 | 9.80 | 28.30 | 56.00 | -27.70 | QP |
| 2.6740 | 7.16 | 9.80 | 16.96 | 46.00 | -29.04 | AVG |

Remark:



Version.1.2 Page 14 of 42



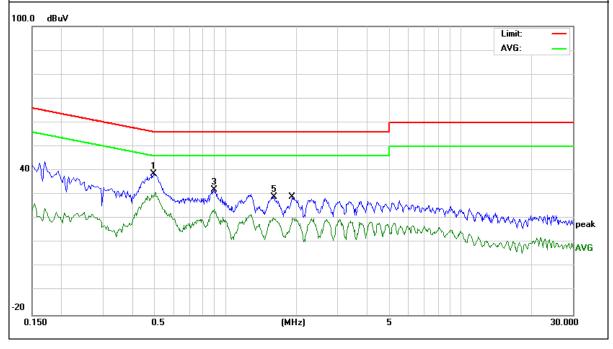


| I = I I I A | Mini Wireless Game Controller Mouse Keyboard Combo | Model Name: | RT707 |
|--------------|---|--------------------|--------|
| Temperature: | 26 ℃ | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Phase : | N |
| Lact Voltage | DC 5V from Adapter AC 120V/60Hz | Test Mode: | Mode 1 |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | Remark |
| 0.4940 | 28.85 | 9.75 | 38.60 | 56.10 | -17.50 | QP |
| 0.5020 | 21.08 | 9.75 | 30.83 | 46.00 | -15.17 | AVG |
| 0.8900 | 22.38 | 9.75 | 32.13 | 56.00 | -23.87 | QP |
| 0.8900 | 14.27 | 9.75 | 24.02 | 46.00 | -21.98 | AVG |
| 1.6019 | 19.36 | 9.78 | 29.14 | 56.00 | -26.86 | QP |
| 1.9260 | 10.61 | 9.79 | 20.40 | 46.00 | -25.60 | AVG |

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



Version.1.2 Page 15 of 42



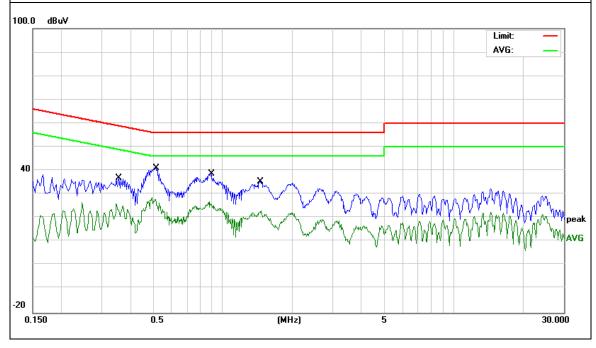


| EUT: | Mini Wireless Game Controller Mouse Keyboard Combo | Model Name: | RT707 |
|---------------|---|-----------------------|--------|
| Temperature: | 26 ℃ | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Phase : | L |
| Test Voltage: | DC 5V from Adapter AC 240V/60Hz | Test Mode: | Mode 1 |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Domork |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | Remark |
| 0.3540 | 27.14 | 9.74 | 36.88 | 58.87 | -21.99 | QP |
| 0.3540 | 16.30 | 9.74 | 26.04 | 48.87 | -22.83 | AVG |
| 0.5140 | 31.29 | 9.74 | 41.03 | 56.00 | -14.97 | QP |
| 0.5140 | 19.07 | 9.74 | 28.81 | 46.00 | -17.19 | AVG |
| 0.8900 | 28.77 | 9.74 | 38.51 | 56.00 | -17.49 | QP |
| 0.8900 | 17.08 | 9.74 | 26.82 | 46.00 | -19.18 | AVG |
| 1.4580 | 25.56 | 9.76 | 35.32 | 56.00 | -20.68 | QP |
| 1.4580 | 13.40 | 9.76 | 23.16 | 46.00 | -22.84 | AVG |

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.



Version.1.2 Page 16 of 42



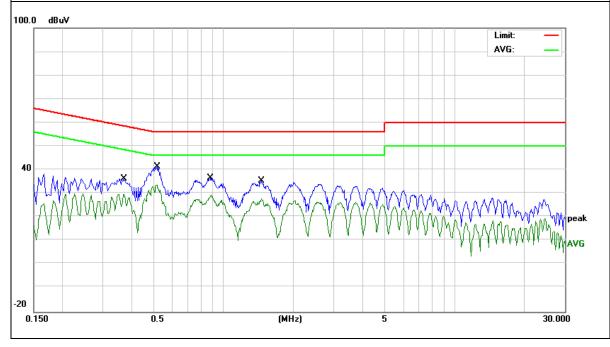


| H-111. | Mini Wireless Game Controller Mouse Keyboard Combo | Model Name: | RT707 |
|--------------|---|--------------------|--------|
| Temperature: | 26 ℃ | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Phase : | N |
| Tact Voltage | DC 5V from Adapter AC 240V/60Hz | Test Mode: | Mode 1 |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Domark |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | Remark |
| 0.3699 | 26.42 | 9.75 | 36.17 | 58.50 | -22.33 | QP |
| 0.3699 | 19.98 | 9.75 | 29.73 | 48.50 | -18.77 | AVG |
| 0.5140 | 31.67 | 9.75 | 41.42 | 56.00 | -14.58 | QP |
| 0.5140 | 23.84 | 9.75 | 33.59 | 46.00 | -12.41 | AVG |
| 0.8820 | 26.82 | 9.75 | 36.57 | 56.00 | -19.43 | QP |
| 0.8820 | 19.55 | 9.75 | 29.30 | 46.00 | -16.70 | AVG |
| 1.4539 | 25.44 | 9.77 | 35.21 | 56.00 | -20.79 | QP |
| 1.4539 | 18.08 | 9.77 | 27.85 | 46.00 | -18.15 | AVG |

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



Version.1.2 Page 17 of 42





7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part15.205, Restricted bands

| According to FCC Part 15.205, Restricted bands | | | | | | |
|--|---------------------|---------------|-------------|--|--|--|
| MHz | MHz | MHz | GHz | | | |
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 | | | |
| 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 | | | |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 | | | |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 | | | |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 | | | |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 | | | |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 | | | |
| 6.26775-6.26825 | 123-138 | 2200-2300 | 14.47-14.5 | | | |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 | | | |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 | | | |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 | | | |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 | | | |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 | | | |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 | | | |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (2) | | | |
| 13.36-13.41 | | | _ | | | |

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| received band opening on respectary, then the respectation in the table below has to be relieved. | | | | | | |
|---|-----------------------|-------------------------|----------------------|--|--|--|
| Restricted Frequency(MHz) | Field Strength (μV/m) | Field Strength (dBµV/m) | Measurement Distance | | | |
| 0.009~0.490 | 2400/F(KHz) | 20 log (uV/m) | 300 | | | |
| 0.490~1.705 | 24000/F(KHz) | 20 log (uV/m) | 30 | | | |
| 1.705~30.0 | 30 | 29.5 | 30 | | | |
| 30-88 | 100 | 40 | 3 | | | |
| 88-216 | 150 | 43.5 | 3 | | | |
| 216-960 | 200 | 46 | 3 | | | |
| Above 960 | 500 | 54 | 3 | | | |

Limits of Radiated Emission Measurement(Above 1000MHz)

| Fragues av (MHz) | Class B (dBuV/m) (at 3M) | | | |
|------------------|--------------------------|---------|--|--|
| Frequency(MHz) | PEAK | AVERAGE | | |
| Above 1000 | 74 | 54 | | |

Remark :1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. For Frequency 9kHz~30MHz: Distance extrapolation factor =40log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz: Distance extrapolation factor =20log(Specific distance/ test distance)(dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

Version.1.2 Page 18 of 42



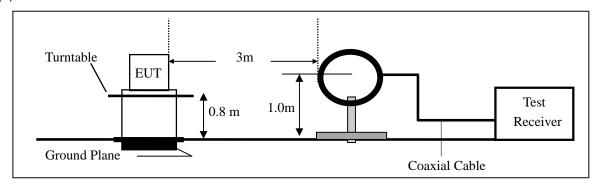


7.2.3 Measuring Instruments

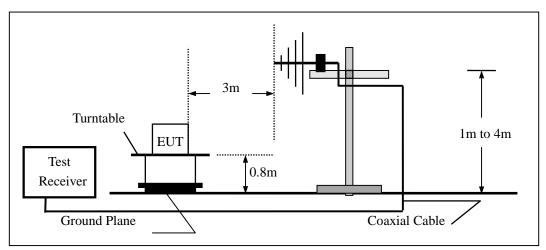
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

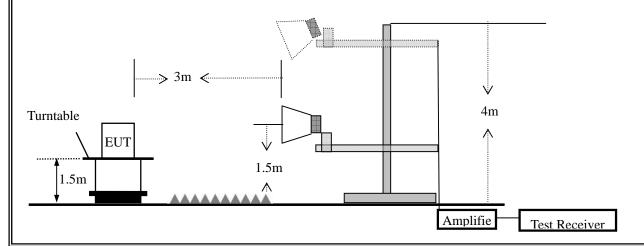
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



Version.1.2 Page 19 of 42





7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

| Spectrum Parameter | Setting |
|---------------------------------------|--|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10th carrier harmonic |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average |

| Receiver Parameter | Setting |
|------------------------|----------------------------------|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz:
 - Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item -EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

Version.1.2 Page 20 of 42





During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

| Frequency Band (MHz) | Function Resolution bandwidth | | Video Bandwidth | |
|----------------------|-------------------------------|---------|-----------------|--|
| 30 to 1000 | QP | 120 kHz | 300 kHz | |
| A1 4000 | Peak | 1 MHz | 1 MHz | |
| Above 1000 | Average | 1 MHz | 10 Hz | |

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

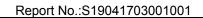
■ Spurious Emission below 30MHz (9KHz to 30MHz)

| EUT: | Mini Wireless Game Controller Mouse Keyboard Combo | Model No.: | RT707 |
|--------------|--|--------------------|------------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Eileen Liu |

| Freq. | Ant.Pol. | Emission Level(dBuV/m) | | Limit 3m(dBuV/m) | | Over(dB) | |
|-------|----------|------------------------|--|------------------|----|----------|----|
| (MHz) | H/V | PK AV | | PK | AV | PK | AV |
| | | | | | | | |

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Version.1.2 Page 21 of 42







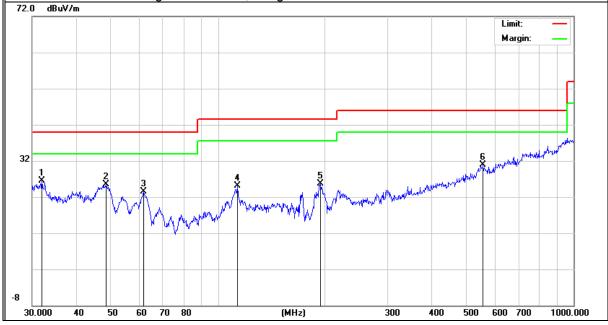
Spurious Emission below 1GHz (30MHz to 1GHz)
All the modulation modes have been tested, and the worst result was report as below:

| EUT: | Mini Wireless Game Controller Mouse Keyboard Combo | Model Name: | RT707 |
|---------------|--|--------------------|--------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Pressure: | 1010hPa | Test Mode: | Mode 1 |
| Test Voltage: | DC 3.7V | | |

| Polar | Frequency | Meter Reading | Factor Emission Limits Margin | | Margin | Remark | | |
|-------|-----------|------------------|-------------------------------|-------------------|--------|--------|--------|--|
| (H/V) | (MHz) | (dBuV) | (dB) | (dBuV/m) (dBuV/m) | | (dB) | . too. | |
| V | 31.9546 | 8.30 | 18.22 | 26.52 | 40.00 | -13.48 | QP | |
| V | 48.3318 | 14.53 | 10.98 | 25.51 | 40.00 | -14.49 | QP | |
| V | 61.7781 | 17.00 | 6.41 | 23.41 | 40.00 | -16.59 | QP | |
| V | 113.3163 | 12.26 | 12.92 | 25.18 | 43.50 | -18.32 | QP | |
| V | 194.4534 | 15.84 | 9.87 | 25.71 | 43.50 | -17.79 | QP | |
| V | 556.7744 | 6.45 | 24.43 | 30.88 | 46.00 | -15.12 | QP | |

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



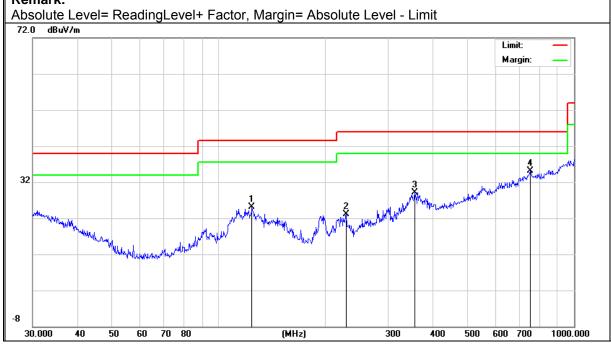
Version.1.2 Page 22 of 42





| Polar | Frequency | Meter Factor Emission Level | | Emission Level | Limits Margin | | Remark | |
|-------|-----------|-----------------------------|-------|-------------------|---------------|--------|--------|--|
| (H/V) | (MHz) | (dBuV) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | | |
| Н | 124.1330 | 11.75 | 13.29 | 25.04 | 43.50 | -18.46 | QP | |
| Н | 228.4904 | 11.03 | 12.08 | 23.11 | 46.00 | -22.89 | QP | |
| Н | 356.6758 | 11.37 | 17.77 | 29.14 | 46.00 | -16.86 | QP | |
| Н | 752.7432 | 7.54 | 27.51 | 35.05 | 46.00 | -10.95 | QP | |

Remark:



Version.1.2 Page 23 of 42





| ■ Spurious Emission Above 1GHz (1GHz to 25GHz) | | | | | | |
|--|--|--------------------|------------|--|--|--|
| EUT: | Mini Wireless Game Controller Mouse Keyboard Combo | Model No.: | RT707 | | | |
| Temperature: | 20 ℃ | Relative Humidity: | 48% | | | |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Eileen Liu | | | |

| Frequenc y | Read Level | Cable loss | Antenna Factor | Preamp Factor | Emission Level | Limits | Margin | Remark | Comment |
|---------------|---------------|------------|-------------------|------------------|--------------------|----------|--------|--------|------------|
| (MHz) | (dBµV) | (dB) | dB/m | (dB) | (dBµV/m) | (dBµV/m) | (dB) | | |
| | | | Low | Channel (2 | 407 MHz)- | Above 1G | | | |
| 4814.321 | 64.32 | 5.21 | 35.59 | 44.30 | 60.82 | 74.00 | -13.18 | Pk | Vertical |
| 4814.321 | 41.13 | 5.21 | 35.59 | 44.30 | 37.63 | 54.00 | -16.37 | AV | Vertical |
| 7221.112 | 62.54 | 6.48 | 36.27 | 44.60 | 60.69 | 74.00 | -13.31 | Pk | Vertical |
| 7221.112 | 41.45 | 6.48 | 36.27 | 44.60 | 39.60 | 54.00 | -14.40 | AV | Vertical |
| 4814.321 | 66.63 | 5.21 | 35.55 | 44.30 | 63.09 | 74.00 | -10.91 | Pk | Horizontal |
| 4814.321 | 44.63 | 5.21 | 35.55 | 44.30 | 41.09 | 54.00 | -12.91 | AV | Horizontal |
| 7221.112 | 63.29 | 6.48 | 36.27 | 44.52 | 61.52 | 74.00 | -12.48 | Pk | Horizontal |
| 7221.112 | 42.33 | 6.48 | 36.27 | 44.52 | 40.56 | 54.00 | -13.44 | AV | Horizontal |
| | | | Mid | Channel (24 | 440 MHz)- <i>i</i> | Above 1G | | | |
| 4880.473 | 61.12 | 5.21 | 35.66 | 44.20 | 57.79 | 74.00 | -16.21 | Pk | Vertical |
| 4880.473 | 43.29 | 5.21 | 35.66 | 44.20 | 39.96 | 54.00 | -14.04 | AV | Vertical |
| 7320.265 | 60.47 | 7.10 | 36.50 | 44.43 | 59.64 | 74.00 | -14.36 | Pk | Vertical |
| 7320.265 | 40.11 | 7.10 | 36.50 | 44.43 | 39.28 | 54.00 | -14.72 | AV | Vertical |
| 4880.366 | 66.59 | 5.21 | 35.66 | 44.20 | 63.26 | 74.00 | -10.74 | Pk | Horizontal |
| 4880.366 | 46.65 | 5.21 | 35.66 | 44.20 | 43.32 | 54.00 | -10.68 | AV | Horizontal |
| 7320.234 | 60.53 | 7.10 | 36.50 | 44.43 | 59.70 | 74.00 | -14.30 | Pk | Horizontal |
| 7320.234 | 38.95 | 7.10 | 36.50 | 44.43 | 38.12 | 54.00 | -15.88 | AV | Horizontal |
| | | | High | Channel (2 | 477 MHz)- | Above 1G | | | |
| 4954.517 | 67.44 | 5.21 | 35.52 | 44.21 | 63.96 | 74.00 | -10.04 | Pk | Vertical |
| 4954.517 | 48.86 | 5.21 | 35.52 | 44.21 | 45.38 | 54.00 | -8.62 | AV | Vertical |
| 7431.323 | 62.54 | 7.10 | 36.53 | 44.60 | 61.57 | 74.00 | -12.43 | Pk | Vertical |
| 7431.323 | 42.43 | 7.10 | 36.53 | 44.60 | 41.46 | 54.00 | -12.54 | AV | Vertical |
| 4954.517 | 62.56 | 5.21 | 35.52 | 44.21 | 59.08 | 74.00 | -14.92 | Pk | Horizontal |
| 4954.517 | 42.61 | 5.21 | 35.52 | 44.21 | 39.13 | 54.00 | -14.87 | AV | Horizontal |
| 7431.323 | 61.22 | 7.10 | 36.53 | 44.60 | 60.25 | 74.00 | -13.75 | Pk | Horizontal |
| 7431.323 | 41.14 | 7.10 | 36.53 | 44.60 | 40.17 | 54.00 | -13.83 | AV | Horizontal |

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor (2)All other emissions more than 20dB below the limit.

Version.1.2 Page 24 of 42





| Spurious Emission | n in Restricted Band 23 i | 0-2390MHz and 2483. | 5-25UUIVIHZ |
|---------------------------------------|---------------------------|---------------------|-------------|
| | Mini Wireless Game | | |
| EUT: | Controller Mouse | Model No.: | RT707 |
| | Keyboard Combo | | |

Temperature: 20 °C Relative Humidity: 48%

Test Mode: Mode2/ Mode4 Test By: Eileen Liu

| Frequenc | Meter Reading | Cable Loss | Antenna Factor | Preamp Factor | Emission Level | Limits | Margin | Detector | Commont |
|-----------|------------------|---------------|-------------------|------------------|-------------------|------------|--------|----------|------------|
| (MHz) | (dBµV) | (dB) | dB/m | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре | Comment |
| (1011 12) | (αυμν) | (ub) | QD/III | \ / | SK | (αυμν/ιιι) | (ub) | туре | |
| | | | | | | | | | |
| 2310.00 | 61.34 | 2.97 | 27.80 | 43.80 | 48.31 | 74 | -25.69 | Pk | Horizontal |
| 2310.00 | 42.29 | 2.97 | 27.80 | 43.80 | 29.26 | 54 | -24.74 | AV | Horizontal |
| 2310.00 | 62.59 | 2.97 | 27.80 | 43.80 | 49.56 | 74 | -24.44 | Pk | Vertical |
| 2310.00 | 48.74 | 2.97 | 27.80 | 43.80 | 35.71 | 54 | -18.29 | AV | Vertical |
| 2390.00 | 63.35 | 3.14 | 27.21 | 43.80 | 49.90 | 74 | -24.10 | Pk | Vertical |
| 2390.00 | 42.13 | 3.14 | 27.21 | 43.80 | 28.68 | 54 | -25.32 | AV | Vertical |
| 2390.00 | 60.69 | 3.14 | 27.21 | 43.80 | 47.24 | 74 | -26.76 | Pk | Horizontal |
| 2390.00 | 41.17 | 3.14 | 27.21 | 43.80 | 27.72 | 54 | -26.28 | AV | Horizontal |
| 2483.50 | 62.67 | 3.58 | 27.70 | 44.00 | 49.95 | 74 | -24.05 | Pk | Vertical |
| 2483.50 | 43.33 | 3.58 | 27.70 | 44.00 | 30.61 | 54 | -23.39 | AV | Vertical |
| 2483.50 | 60.58 | 3.58 | 27.70 | 44.00 | 47.86 | 74 | -26.14 | Pk | Horizontal |
| 2483.50 | 42.28 | 3.58 | 27.70 | 44.00 | 29.56 | 54 | -24.44 | AV | Horizontal |

Note: (1) All other emissions more than 20dB below the limit.

Version.1.2 Page 25 of 42





| ■ Spurious Emission in Restricted Band 3260MHz-18000MHz | | | | | |
|---|--|--------------------|------------|--|--|
| EUT: | Mini Wireless Game Controller Mouse Keyboard Combo | Model No.: | RT707 | | |
| Temperature: | 20 ℃ | Relative Humidity: | 48% | | |
| Test Mode: | Mode2/ Mode4 | Test By: | Eileen Liu | | |

| Frequenc | Readin g Level | Cable Loss | Antenn a | Preamp Factor | Emission Level | Limits | Margin | Detect or | _ |
|----------|-------------------|---------------|-------------|------------------|-------------------|--------------|--------|--------------|------------|
| (MHz) | (dBµV) | (dB) | dB/m | (dB) | (dBµ V/m) | (dBµ V/m) | (dB) | Туре | Comment |
| 3260 | 62.23 | 4.04 | 29.57 | 44.70 | 51.14 | 74 | -22.86 | Pk | Vertical |
| 3260 | 51.14 | 4.04 | 29.57 | 44.70 | 40.05 | 54 | -13.95 | AV | Vertical |
| 3260 | 62.59 | 4.04 | 29.57 | 44.70 | 51.50 | 74 | -22.50 | Pk | Horizontal |
| 3260 | 53.37 | 4.04 | 29.57 | 44.70 | 42.28 | 54 | -11.72 | AV | Horizontal |
| 3332 | 62.22 | 4.26 | 29.87 | 44.40 | 51.95 | 74 | -22.05 | Pk | Vertical |
| 3332 | 53.29 | 4.26 | 29.87 | 44.40 | 43.02 | 54 | -10.98 | AV | Vertical |
| 3332 | 62.95 | 4.26 | 29.87 | 44.40 | 52.68 | 74 | -21.32 | Pk | Horizontal |
| 3332 | 53.28 | 4.26 | 29.87 | 44.40 | 43.01 | 54 | -10.99 | AV | Horizontal |
| 17797 | 42.27 | 10.99 | 43.95 | 43.50 | 53.71 | 74 | -20.29 | Pk | Vertical |
| 17797 | 32.26 | 10.99 | 43.95 | 43.50 | 43.70 | 54 | -10.30 | AV | Vertical |
| 17788 | 43.21 | 11.81 | 43.69 | 44.60 | 54.11 | 74 | -19.89 | Pk | Horizontal |
| 17788 | 31.19 | 11.81 | 43.69 | 44.60 | 42.09 | 54 | -11.91 | AV | Horizontal |

Note: (1) All other emissions more than 20dB below the limit.

Version.1.2 Page 26 of 42





7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) ≥ 3*RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3.6 Test Results

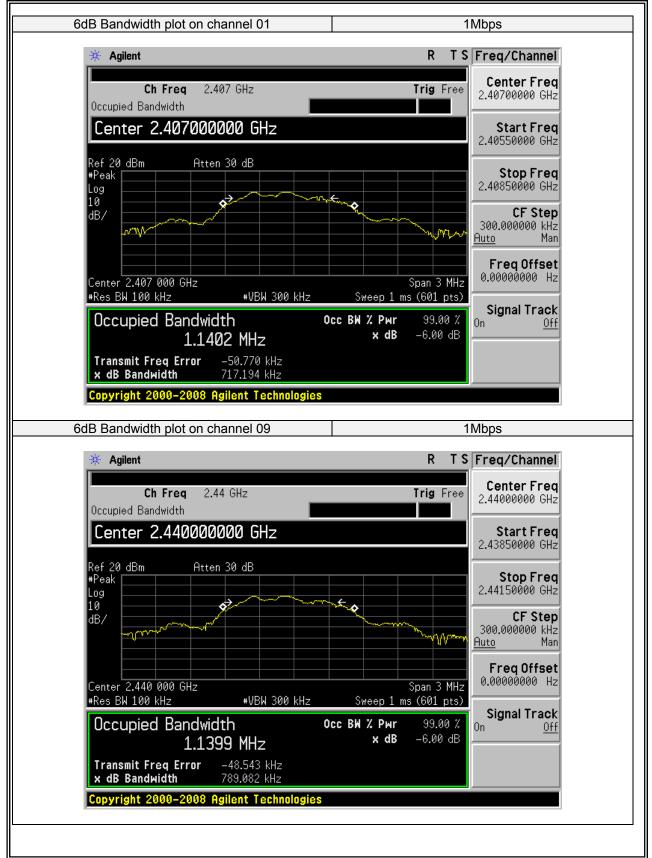
| EUT: | Mini Wireless Game Controller Mouse Keyboard Combo | Model No.: | RT707 |
|--------------|--|--------------------|------------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Eileen Liu |

| Channel | Frequency (MHz) | 6dB bandwidth (kHz) | Limit (kHz) | Result |
|---------|--------------------|------------------------|----------------|--------|
| Low | 2407 | 717.194 | ≥500 | Pass |
| Middle | 2440 | 789.082 | ≥500 | Pass |
| High | 2477 | 775.639 | ≥500 | Pass |

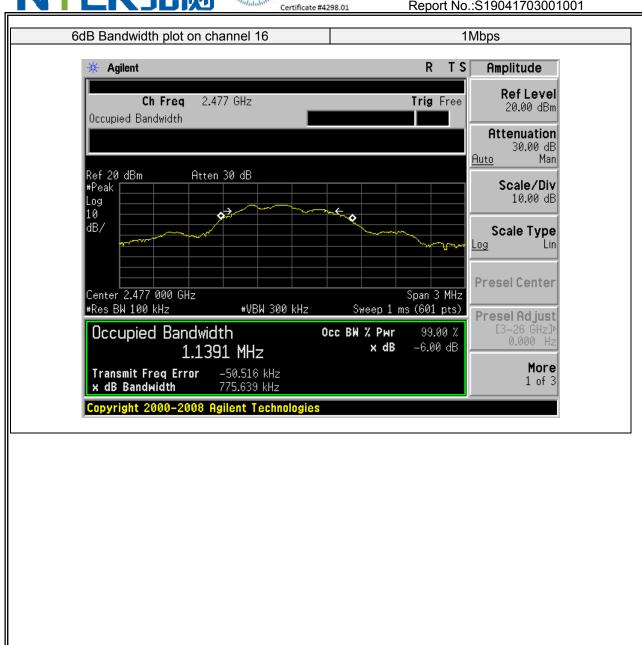
Version.1.2 Page 27 of 42







Version.1.2 Page 28 of 42



Version.1.2 Page 29 of 42





7.4 PEAK OUTPUT POWER

7.4.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.1.

7.4.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The testing follows Subclause 11.9.1.1 of ANSI C63.10

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Set the RBW ≧DTS bandwidth.

Set VBW = 3*RBW.

Set the span ≥3*RBW

Set Sweep time = auto couple.

Set Detector = peak.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use peak marker function to determine the peak amplitude level.

7.4.6 Test Results

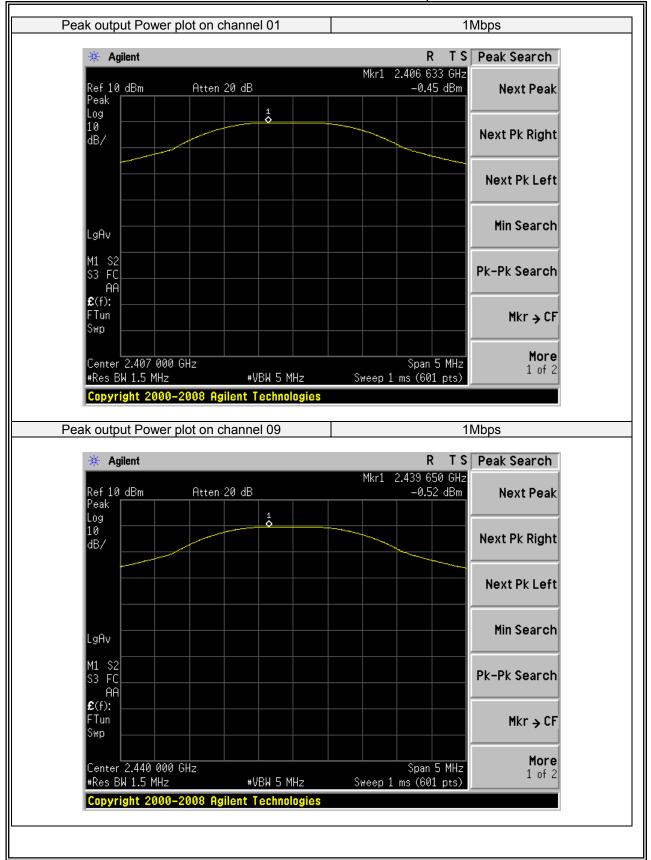
| IFIII. | Mini Wireless Game Controller Mouse Keyboard Combo | Model No.: | RT707 |
|--------------|---|-----------------------|------------|
| Temperature: | 120 (' | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Eileen Liu |

| Test Channel | Frequency (MHz) | Power Setting | Peak Output Power (dBm) | LIMIT (dBm) | Verdict | |
|--------------|--------------------|---------------|----------------------------|----------------|---------|--|
| | 1Mbps | | | | | |
| 01 | 2407 | Default | -0.45 | 30 | PASS | |
| 09 | 2440 | Default | -0.52 | 30 | PASS | |
| 16 | 2477 | Default | -1.05 | 30 | PASS | |

Version.1.2 Page 30 of 42

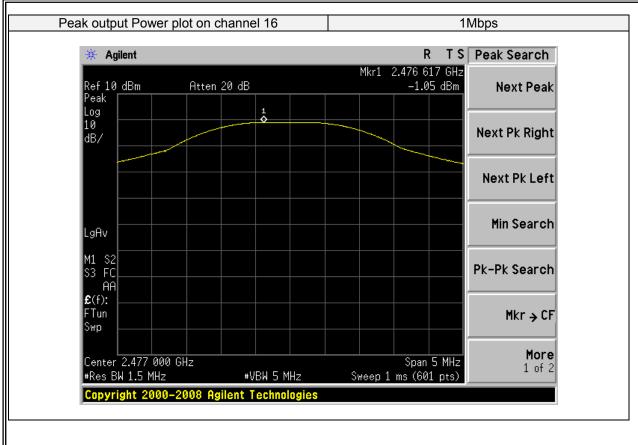






Version.1.2 Page 31 of 42





Version.1.2 Page 32 of 42







7.5.1 **Applicable Standard**

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.5.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.5.3 **Measuring Instruments**

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 **Test Procedure**

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

- a) Set analyzer center frequency to DTS channel center frequency.
- b) Set the span to 1.5*DTS bandwidth.
- c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set the VBW ≥ 3 RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Version.1.2 Page 33 of 42

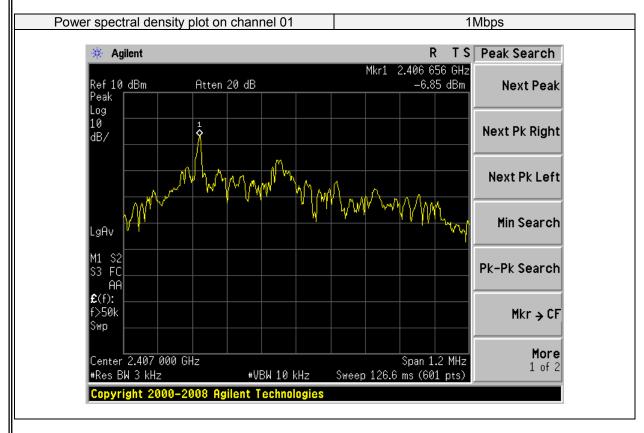




7.5.6 Test Results

| EUT: | Mini Wireless Game Controller Mouse Keyboard Combo | Model No.: | RT707 |
|--------------|--|--------------------|------------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Eileen Liu |

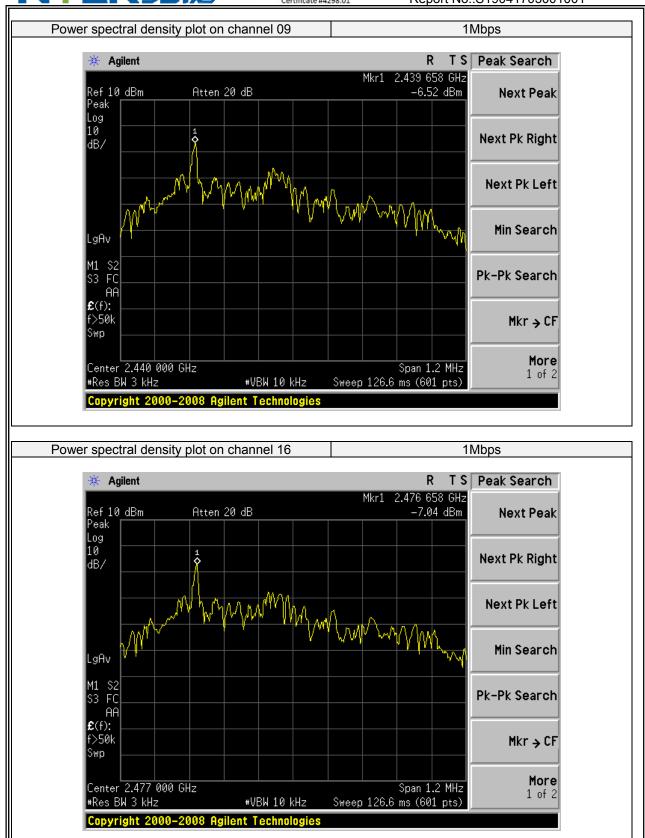
| Test Channel | Frequency (MHz) | Power Density (dBm/3KHz) | Limit (dBm/3KHz) | Verdict | | |
|--------------|--------------------|-----------------------------|---------------------|---------|--|--|
| | 1Mbps | | | | | |
| 01 | 2407 | -6.85 | 8 | PASS | | |
| 09 | 2440 | -6.52 | 8 | PASS | | |
| 16 | 2477 | -7.04 | 8 | PASS | | |



Version.1.2 Page 34 of 42







Version.1.2 Page 35 of 42

7.6 CONDUCTED BAND EDGE MEASUREMENT

7.6.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

Report No.:S19041703001001

7.6.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05 Section 8.7.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.

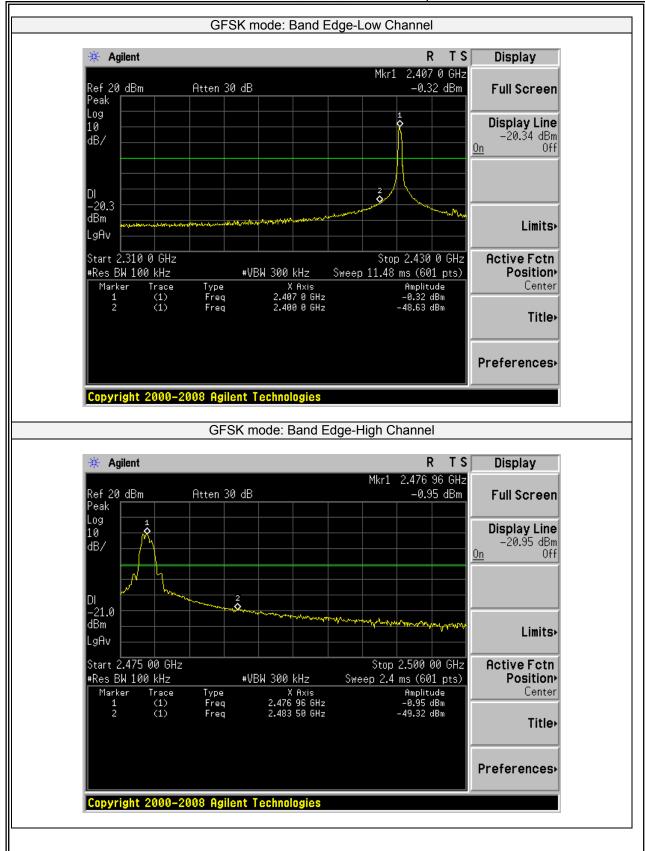
7.6.6 Test Results

| EUT: | Mini Wireless Game Controller Mouse Keyboard Combo | Model No.: | RT707 |
|--------------|--|--------------------|------------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode4 | Test By: | Eileen Liu |

Version.1.2 Page 36 of 42







Version.1.2 Page 37 of 42

Certificate #4298.01 Report No.:S19041703001001

7.7 SPURIOUS RF CONDUCTED EMISSIONS

7.7.1 Conformance Limit

- 1. Below -20dB of the highest emission level in operating band.
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.7.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.3 Test Setup

Please refer to Section 6.1 of this test report.

7.7.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength, and measure frequeny range from 9KHz to 26.5GHz.

7.7.5 Test Results

Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

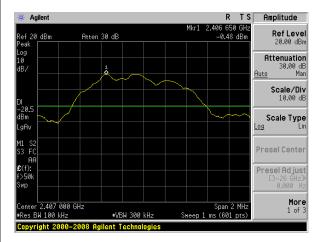
Version.1.2 Page 38 of 42



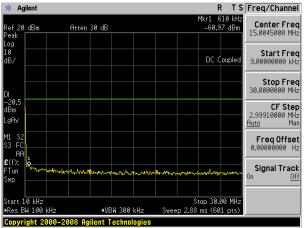


Test Plot

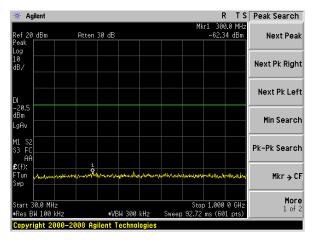
GFSK on channel 01



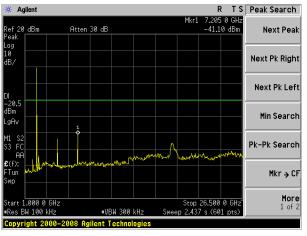
GFSK on channel 01



GFSK on channel 01



GFSK on channel 01



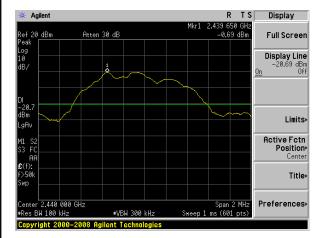
Version.1.2 Page 39 of 42



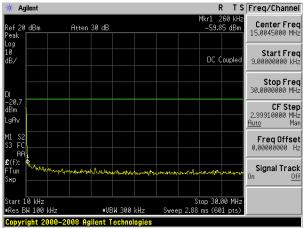


Test Plot

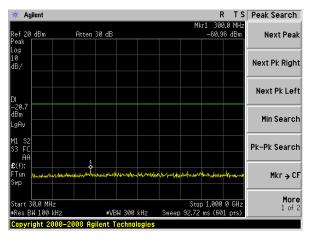
GFSK on channel 09



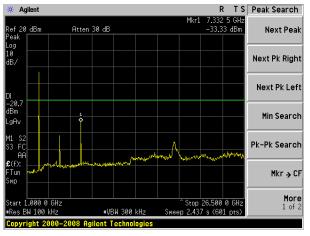
GFSK on channel 09



GFSK on channel 09



GFSK on channel 09



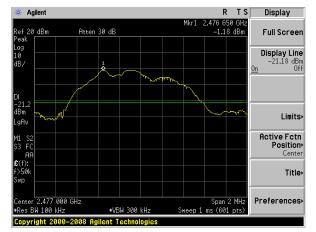
Version.1.2 Page 40 of 42



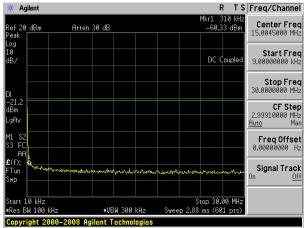


Test Plot

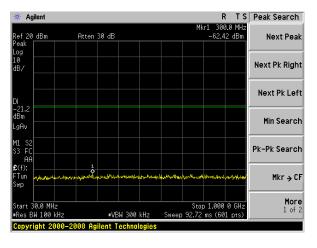
GFSK on channel 16



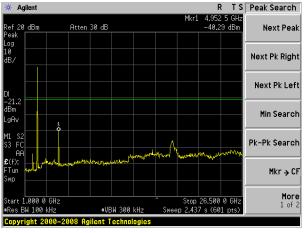
GFSK on channel 16



GFSK on channel 16



GFSK on channel 16



Version.1.2 Page 41 of 42



7.8 ANTENNA APPLICATION

7.8.1 Antenna Requirement

15.203 requirement: For intentional device, according to 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.

7.8.2 **Result**

| The EUT antenna is permanent attached PCB antenna(Gain:1dBi). | It comply with the standard |
|---|-----------------------------|
| requirement. | |

END OF REPORT

Version.1.2 Page 42 of 42