FCC TEST REPORT

FOR

Guangzhou Chicken Run Network Technology Co., Ltd.

Game Controller

Test Model: Gamesir-G3s

Additional Model No.: Gamesir-G3, Gamesir-G3f, Gamesir-G3v, Gamesir-G3u

Prepared for : Guangzhou Chicken Run Network Technology Co.,Ltd.

Address : Room 101D, No.68, Huacui Street, Jianye Road, Tianhe District,

Guangzhou City, Guangdong Province, China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd

Address : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an

District, Shenzhen, Guangdong, China

Tel : (+86)755-82591330 Fax : (+86)755-82591332 Web : www.LCS-cert.com

Mail : webmaster@LCS-cert.com

Date of receipt of test sample : October 21, 2015

Number of tested samples : 1

Sample number : 15092814

Date of Test : October 29, 2015 - October 30, 2015

Date of Report : October 30, 2015

FCC TEST REPORT FCC CFR 47 PART 15 C(15.249): 2014

Report Reference No.: LCS1510210995E

Date of Issue: Cottober 30, 2015

Testing Laboratory Name.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address.....: 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,

Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure.....: Full application of Harmonised standards

Partial application of Harmonised standards \Box

Other standard testing method \Box

Applicant's Name: Guangzhou Chicken Run Network Technology Co.,Ltd.

Address: Room 101D, No.68, Huacui Street, Jianye Road, Tianhe District,

Guangzhou City, Guangdong Province, China

Test Specification

Standard.....: FCC CFR 47 PART 15 C(15.249): 2014 / ANSI C63.10: 2013

Test Report Form No.....: LCSEMC-1.0

TRF Originator.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF.....: Dated 2011-03

Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen LCS Compliance Testing Laboratory Ltd. is acknowledged as copyright owner and source of the material. Shenzhen LCS Compliance Testing Laboratory Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test Item Description.....: Game Controller

Trade Mark: Gamesir

Test Model....:: Gamesir-G3s

Ratings.....: DC 3.7V by build-in battery(600mAh)

Recharge Voltage: DC 5V/800mA

Result: Positive

Compiled by:

Supervised by:

Approved by:

Leo Lee/ File administrators

Glin Lu/ Technique principal

Gavin Liang/ Manager

FCC -- TEST REPORT

October 30, 2015

Date of issue

Test Model......: Gamesir-G3s

EUT.......: Game Controller

Applicant...: Guangzhou Chicken Run Network Technology Co.,Ltd.
Address...: Room 101D, No.68, Huacui Street, Jianye Road, Tianhe District, Guangzhou City, Guangdong Province, China

Telephone...: /
Fax...: /

Manufacturer...: Guangzhou Chicken Run Network Technology Co.,Ltd.
Address...: Room 101D, No.68, Huacui Street, Jianye Road, Tianhe District, Guangzhou City, Guangdong Province, China

Telephone...: /
Fax...: /

| Test Result | Positive |
|-------------|----------|
|-------------|----------|

The test report merely corresponds to the test sample.

Telephone....:: /

Fax.....:: /

Test Report No.: LCS1510210995E

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Factory.....:: Guangzhou Chicken Run Network Technology Co.,Ltd.

Address.....: Room 101D, No.68, Huacui Street, Jianye Road, Tianhe District,

Guangzhou City, Guangdong Province, China

TABLE OF CONTENTS

| 1. GENERAL INFORMATION | 5 |
|--------------------------------------------------|----|
| 1.1. Description of Device (EUT) | 5 |
| 1.2. Support Equipment List | 5 |
| 1.3. External I/O | |
| 1.4. Description of Test Facility | |
| 1.5. List Of Measuring Equipments | |
| 1.6. Statement of the measurement uncertainty | |
| 1.7. Measurement Uncertainty | |
| 1.8. Description Of Test Modes | |
| 2. TEST METHODOLOGY | 9 |
| 2.1. EUT Configuration | |
| 2.2. EUT Exercise | |
| 2.3. General Test Procedures | 9 |
| 3. CONNECTION DIAGRAM OF TEST SYSTEM | 10 |
| 3.1. Justification | 10 |
| 3.2. EUT Exercise Software | |
| 3.3. Special Accessories | 10 |
| 3.4. Block Diagram/Schematics | 10 |
| 3.5. Equipment Modifications | 10 |
| 3.6. Test Setup | 10 |
| 4. SUMMARY OF TEST RESULTS | 11 |
| 5. ANTENNA REQUIREMENT | 12 |
| 5.1. Standard Applicable | |
| 5.2. Antenna Connected Construction | |
| 6. LINE CONDUCTED EMISSIONS | 13 |
| 6.1 Standard Applicable | |
| 6.2 Block Diagram of Test Setup | |
| 6.3 Test Results | |
| 7. RADIATED EMISSION MEASUREMENT | |
| 7.1. Standard Applicable | |
| 7.2. Instruments Setting | |
| 7.3. Test Procedure | |
| 7.4. Block Diagram of Test Setup | |
| 7.5. Test Results | |
| 7.6. Results for Radiated Emissions (Above 1GHz) | 24 |
| 7.7. Results for Band edge Testing (Radiated) | 25 |
| 8. 20 DB BANDWIDTH MEASUREMENT | 26 |
| 8.1. Standard Applicable | 26 |
| 8.2. Block Diagram of Test Setup | |
| 8.3. Test Procedure | |
| 8.4. Test Results | 27 |

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Game Controller

Model Number : Gamesir-G3s, Gamesir-G3, Gamesir-G3v,

Gamesir-G3u

Model Declaration : PCB board, structure and internal of the related model(s)

are the same, So no additional models were tested.

Test Model : Gamesir-G3s

Hardware Version : VER 4.0 Software Version : VER 3.0

Power Supply : DC 3.7V by build-in battery(600mAh)

Recharge Voltage: DC 5V/800mA

Frequency Range : 2402.00MHz-2480.00MHz

Channel Number : 79 Channels

Channel Spacing : 1MHz

Modulation Type : GFSK

Antenna Description : PCB Antenna, 2.0dBi(Max.)

1.2. Support Equipment List

| Manufacturer | Description | Model | Serial Number | Certificate |
|--------------|------------------|------------|---------------|-------------|
| Lenovo | Notebook | B470 | WB05067151 | DOC |
| Lenovo | AC/DC ADAPTER | ADP-90DD B | 36001941 | VOC |

1.3. External I/O

| I/O Port Description | Quantity | Cable |
|----------------------|----------|-------|
| USB Port | 1 | N/A |

1.4. Description of Test Facility

CNAS Registration Number. is L4595. FCC Registration Number. is 899208. Industry Canada Registration Number. is 9642A-1. VCCI Registration Number. is C-4260 and R-3804. ESMD Registration Number. is ARCB0108.

UL Registration Number. is 100571-492. TUV SUD Registration Number. is SCN1081.

TUV RH Registration Number. is UA 50296516-001

1.5. List Of Measuring Equipments

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Cal Date | Due Date |
|-----------------------------|----------------|----------------------------------|-------------|-----------------|---------------|---------------|
| EMC Receiver | R&S | ESCS 30 | 100174 | 9kHz – 2.75GHz | June 18,2015 | June 17,2016 |
| Signal analyzer | Agilent | E4448A(External mixers to 40GHz) | US44300469 | 9kHz~40GHz | July 16,2015 | July 15,2016 |
| LISN | MESS Tec | NNB-2/16Z | 99079 | 9KHz-30MHz | June 18,2015 | June 17,2016 |
| LISN (Support Unit) | EMCO | 3819/2NM | 9703-1839 | 9KHz-30MHz | June 18,2015 | June 17,2016 |
| RF Cable-CON | UTIFLEX | 3102-26886-4 | CB049 | 9KHz-30MHz | June 18,2015 | June 17,2016 |
| ISN | SCHAFFNER | ISN ST08 | 21653 | 9KHz-30MHz | June 18,2015 | June 17,2016 |
| 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M | 03CH03-HY | 30M-1GHz 3m | June 18,2015 | June 17,2016 |
| Amplifier | SCHAFFNER | COA9231A | 18667 | 9kHz-2GHzz | June 18,2015 | June 17,2016 |
| Amplifier | Agilent | 8449B | 3008A02120 | 1GHz-26.5GHz | July 16,2015 | July 15,2016 |
| Amplifier | MITEQ | AMF-6F-260400 | 9121372 | 26.5GHz-40GHz | July 16,2015 | July 15,2016 |
| Spectrum Analyzer | Agilent | E4407B | MY41440292 | 9k-26.5GHz | July 16,2015 | July 15,2016 |
| MAX Signal Analyzer | Agilent | N9020A | MY50510140 | 20Hz~26.5GHz | Oct. 27, 2015 | Oct. 26, 2016 |
| Loop Antenna | R&S | HFH2-Z2 | 860004/001 | 9k-30MHz | June 18,2015 | June 17,2016 |
| By-log Antenna | SCHWARZBECK | VULB9163 | 9163-470 | 30MHz-1GHz | June 10,2015 | June 09,2016 |
| Horn Antenna | EMCO | 3115 | 6741 | 1GHz-18GHz | June 10,2015 | June 09,2016 |
| Horn Antenna | SCHWARZBECK | BBHA9170 | BBHA9170154 | 15GHz-40GHz | June 10,2015 | June 09,2016 |
| RF Cable-R03m | Jye Bao | RG142 | CB021 | 30MHz-1GHz | June 18,2015 | June 17,2016 |
| RF Cable-HIGH | SUHNER | SUCOFLEX 106 | 03CH03-HY | 1GHz-40GHz | June 18,2015 | June 17,2016 |
| Power Meter | R&S | NRVS | 100444 | DC-40GHz | June 18,2015 | June 17,2016 |
| Power Sensor | R&S | NRV-Z51 | 100458 | DC-30GHz | June 18,2015 | June 17,2016 |
| Power Sensor | R&S | NRV-Z32 | 10057 | 30MHz-6GHz | June 18,2015 | June 17,2016 |
| RF CABLE-1m | JYE Bao | RG142 | CB034-1m | 20MHz-7GHz | June 18,2015 | June 17,2016 |
| RF CABLE-2m | JYE Bao | RG142 | CB035-2m | 20MHz-1GHz | June 18,2015 | June 17,2016 |

Note: All equipment through GRGT EST calibration

1.6. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.7. Measurement Uncertainty

| Test Item | | Frequency Range | Uncertainty | Note |
|------------------------|---|-----------------|-------------|------|
| D. I. C. H. | | 9KHz~30MHz | 3.10dB | (1) |
| | | 30MHz~200MHz | 2.96dB | (1) |
| Radiation Uncertainty | : | 200MHz~1000MHz | 3.10dB | (1) |
| | | 1GHz~26.5GHz | 4.00dB | (1) |
| Conduction Uncertainty | : | 150kHz~30MHz | 1.63dB | (1) |
| Power disturbance | : | 30MHz~300MHz | 1.60dB | (1) |

^{(1).} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.8. Description Of Test Modes

The EUT operates in the unlicensed ISM band at 2.4GHz. The following operating modes were applied for the related test items.

All test modes were tested, only the result of the worst case was recorded in the report. The EUT is considered a portable unit and was set to transmit at 100% duty cycle. It was pre-tested on the positioned of each 3 axis. The worst case was found positioned on X-plane.

| Mode of Operations | Transmitting Frequency (MHz) | | | |
|-----------------------|------------------------------|--|--|--|
| | 2402 | | | |
| GFSK | 2441 | | | |
| | 2480 | | | |
| For Conduct | ed Emission | | | |
| Test Mode | TX Mode | | | |
| For Radiated Emission | | | | |
| Test Mode | TX Mode | | | |

Worst-case mode and channel used for 150kHz-30 MHz power line conducted emissions was the mode and channel with the highest output power, that was determined to be TX-High Channel(2480MHz).

Worst-case mode and channel used for 9kHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be TX-High Channel(2480MHz).

***Note: Using a temporary antenna connector for the EUT when the conducted measurements are performed.

2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10: 2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Shenzhen LCS Compliance Testing Laboratory Ltd..

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 EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.249 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Conducted Emissions

According to the requirements in Section 6.2 of ANSI C63.10: 2013, AC power-line conducted emissions shall be measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table and 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 6.3 of ANSI C63.10: 2013

3. CONNECTION DIAGRAM OF TEST SYSTEM

3.1. Justification

The system was configured for testing in a continuous transmit condition.

3.2. EUT Exercise Software

N/A

3.3. Special Accessories

N/A

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|-------------------------------------------------------|--------------------------------|-----------|
| §15.203 | Antenna Requirement | Compliant |
| §15.207(a) | Power Line Conducted Emissions | Compliant |
| \$15.205(a), \$15.209(a), \$15.249(a), \$15.249(c) | Radiated Emissions Measurement | Compliant |
| §15.249 | Band Edges Measurement | Compliant |
| §15.249, §15.215 | 20 dB Bandwidth | Compliant |

5. ANTENNA REQUIREMENT

5.1. Standard Applicable

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. 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.

5.2. Antenna Connected Construction

The antenna used for transmitting is permanently attached and no consideration of replacement. Please see EUT photo for details.

Result: Compliance.

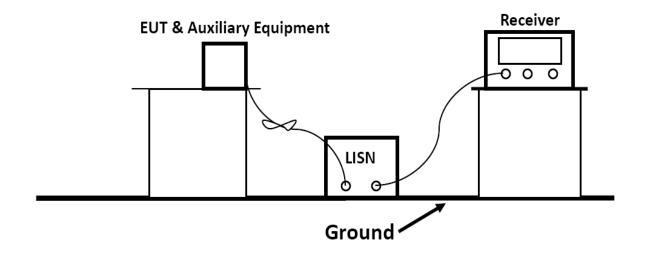
6. LINE CONDUCTED EMISSIONS

6.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which 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 250 microvolt (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

| Engage av Donge (MIII) | Limits (dBμV) | | | | |
|------------------------|---------------|----------|--|--|--|
| Frequency Range(MHz) | Quasi-peak | Average | | | |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 | | | |
| 0.50 to 5 | 56 | 46 | | | |
| 5 to 30 | 60 | 50 | | | |

6.2 Block Diagram of Test Setup

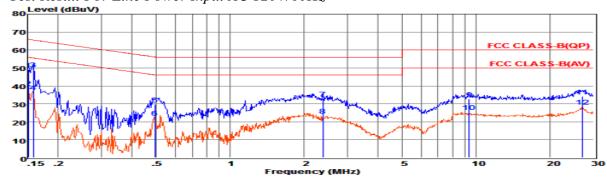


6.3 Test Results

PASS.

The test data please refer to following page.

Test Result For Line Power Input AC 120V/60Hz

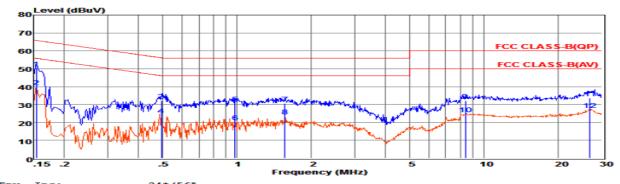


Env. Ins: EUT: M/N: Power Rating: 24*/56% Game Controller Gamesir-G3s AC 120V/60Hz TX-High Channel (2480MHz)

Test Mode: Operator: Memo: Pol:

| | Freq | Reading | LisnFac | CabLos | Atten_Fac | Measured | Limit | Over | Remark |
|-----|----------|---------|---------|--------|-----------|----------|-------|--------|---------|
| | MHz | dBuV | dB | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.15080 | 29.54 | 9.57 | 0.02 | 10.00 | 49.13 | 65.96 | -16.83 | QP |
| 2 | 0.15081 | 19.37 | 9.57 | 0.02 | 10.00 | 38.96 | 55.96 | -17.00 | Average |
| 3 | 0.15816 | 29.69 | 9.58 | 0.02 | 10.00 | 49.29 | 65.56 | -16.27 | QP |
| 4 | 0.15817 | 16.95 | 9.58 | 0.02 | 10.00 | 36.55 | 55.56 | -19.01 | Average |
| 5 | 0.49411 | 10.22 | 9.62 | 0.04 | 10.00 | 29.88 | 56.10 | -26.22 | QP |
| 6 | 0.49412 | 2.52 | 9.62 | 0.04 | 10.00 | 22.18 | 46.10 | -23.92 | Average |
| 7 | 2.38358 | 13.31 | 9.64 | 0.05 | 10.00 | 33.00 | 56.00 | -23.00 | QP |
| 8 | 2.38458 | 3.80 | 9.64 | 0.05 | 10.00 | 23.49 | 46.00 | -22.51 | Average |
| 9 | 9.35179 | 13.07 | 9.69 | 0.08 | 10.00 | 32.84 | 60.00 | -27.16 | QP |
| 10 | 9.35279 | 5.78 | 9.69 | 0.08 | 10.00 | 25.55 | 50.00 | -24.45 | Average |
| 11: | 26.98365 | 14.37 | 9.71 | 0.13 | 10.00 | 34.21 | 60.00 | -25.79 | QP |
| 122 | 26.98465 | 8.63 | 9.71 | 0.13 | 10.00 | 28.47 | 50.00 | -21.53 | Average |
| _ | | | | | | | | | |

Measured = Reading + Lisn Factor +Cable Loss+Atten_Fac. The emission levels that are 20dB below the official limit are not reported.



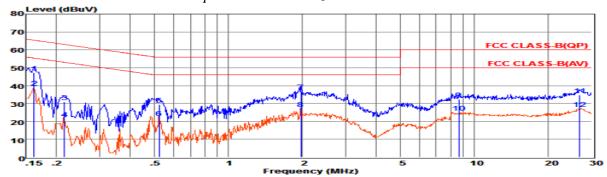
Env. Ins: EUT: M/N: M/N: Power Rating: Test Mode: Operator: Memo: Pol: 24*/56% Game Controller Gamesir-G3s AC 120V/60Hz TX-High Channel (2480MHz)

NEUTRAL

| | Freq | Reading | LisnFac | CabLos | Atten_Fac | Measured | Limit | Over | Remark |
|-----|----------|---------|---------|--------|-----------|----------|-------|--------|---------|
| | MHz | dBuV | dB | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.15403 | 30.50 | 9.69 | 0.02 | 10.00 | 50.21 | 65.78 | -15.57 | QP |
| 2 | 0.15404 | 20.25 | 9.69 | 0.02 | 10.00 | 39.96 | 55.78 | -15.82 | Average |
| 3 | 0.49411 | 12.36 | 9.62 | 0.04 | 10.00 | 32.02 | 56.10 | -24.08 | QP |
| 4 | 0.49412 | 4.58 | 9.62 | 0.04 | 10.00 | 24.24 | 46.10 | -21.86 | Average |
| 5 | 0.98391 | 10.96 | 9.63 | 0.05 | 10.00 | 30.64 | 56.00 | -25.36 | QP |
| 6 | 0.98392 | 0.65 | 9.63 | 0.05 | 10.00 | 20.33 | 46.00 | -25.67 | Average |
| 7 | 1.56008 | 11.07 | 9.63 | 0.05 | 10.00 | 30.75 | 56.00 | -25.25 | QP |
| 8 | 1.56108 | 3.70 | 9.63 | 0.05 | 10.00 | 23.38 | 46.00 | -22.62 | Average |
| 9 | 8.41151 | 12.39 | 9.71 | 0.08 | 10.00 | 32.18 | 60.00 | -27.82 | QP |
| 10 | 8.41251 | 4.97 | 9.71 | 0.08 | 10.00 | 24.76 | 50.00 | -25.24 | Average |
| 112 | 26.84106 | 13.52 | 9.83 | 0.13 | 10.00 | 33.48 | 60.00 | -26.52 | QP |
| 122 | 26.84156 | 7.20 | 9.83 | 0.13 | 10.00 | 27.16 | 50.00 | -22.84 | Average |

Measured = Reading + Lisn Factor +Cable Loss+Atten_Fac. The emission levels that are 20dB below the official limit are not reported.

Test Result For Line Power Input AC 240V/60Hz



Env. Ins: M/N: Power Rating:

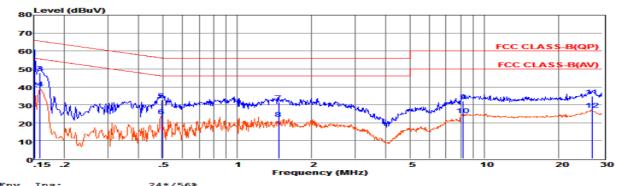
24*/56* Game Controller Gamesir-G3s AC 240V/60Hz

TX-High Channel (2480MHz)

Test Mode: Operator: Memo: Pol:

| | Freq | Reading | LisnFac | CabLos | Atten_Fac | Measured | Limit | Over | Remark |
|-----|----------|---------|---------|--------|-----------|----------|-------|--------|---------|
| | MHz | dBuV | dB | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.16241 | 27.54 | 9.59 | 0.02 | 10.00 | 47.15 | 65.34 | -18.19 | QP |
| 2 | 0.16242 | 19.41 | 9.59 | 0.02 | 10.00 | 39.02 | 55.34 | -16.32 | Average |
| 3 | 0.21506 | 11.33 | 9.63 | 0.03 | 10.00 | 30.99 | 63.01 | -32.02 | QP |
| 4 | 0.21507 | 1.73 | 9.63 | 0.03 | 10.00 | 21.39 | 53.01 | -31.62 | Average |
| 5 | 0.52376 | 9.74 | 9.62 | 0.04 | 10.00 | 29.40 | 56.00 | -26.60 | QP |
| 6 | 0.52377 | 2.39 | 9.62 | 0.04 | 10.00 | 22.05 | 46.00 | -23.95 | Average |
| 7 | 1.96966 | 17.12 | 9.64 | 0.05 | 10.00 | 36.81 | 56.00 | -19.19 | QP |
| 8 | 1.97066 | 7.29 | 9.64 | 0.05 | 10.00 | 26.98 | 46.00 | -19.02 | Average |
| 9 | 8.63732 | 12.66 | 9.69 | 0.08 | 10.00 | 32.43 | 60.00 | -27.57 | QP |
| 10 | 8.63762 | 5.16 | 9.69 | 0.08 | 10.00 | 24.93 | 50.00 | -25.07 | Average |
| 112 | 26.84106 | 14.92 | 9.71 | 0.13 | 10.00 | 34.76 | 60.00 | -25.24 | QP |
| 122 | 26.84156 | 7.14 | 9.71 | 0.13 | 10.00 | 26.98 | 50.00 | -23.02 | Average |

Measured = Reading + Lisn Factor +Cable Loss+Atten_Fac. The emission levels that are 20dB below the official limit are not reported.



Env. Ins: EUT: M/N: Power Rating: Test Mode: Operator: Memo: Pol:

24*/56% Game Controller Gamesir-G3s AC 240V/60Hz TX-High Channel (2480MHz)

NEUTRAL

| | Freq | Reading | LisnFac | CabLos | Atten_Fac | Measured | Limit | Over | Remark |
|-----|----------|---------|---------|--------|-----------|----------|-------|--------|---------|
| | MHz | dBuV | dB | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.15080 | 36.52 | 9.70 | 0.02 | 10.00 | 56.24 | 65.96 | -9.72 | QP |
| 2 | 0.15081 | 19.23 | 9.70 | 0.02 | 10.00 | 38.95 | 55.96 | -17.01 | Average |
| 3 | 0.15900 | 28.05 | 9.68 | 0.02 | 10.00 | 47.75 | 65.52 | -17.77 | QP |
| 4 | 0.15901 | 19.52 | 9.68 | 0.02 | 10.00 | 39.22 | 55.52 | -16.30 | Average |
| 5 | 0.49411 | 13.02 | 9.62 | 0.04 | 10.00 | 32.68 | 56.10 | -23.42 | QP |
| 6 | 0.49412 | 4.18 | 9.62 | 0.04 | 10.00 | 23.84 | 46.10 | -22.26 | Average |
| 7 | 1.47175 | 11.96 | 9.63 | 0.05 | 10.00 | 31.64 | 56.00 | -24.36 | QP |
| 8 | 1.47255 | 2.59 | 9.63 | 0.05 | 10.00 | 22.27 | 46.00 | -23.73 | Average |
| 9 | 8.19160 | 12.48 | 9.70 | 0.07 | 10.00 | 32.25 | 60.00 | -27.75 | QP |
| 10 | 8.19250 | 4.75 | 9.70 | 0.07 | 10.00 | 24.52 | 50.00 | -25.48 | Average |
| 112 | 27.27110 | 14.83 | 9.83 | 0.13 | 10.00 | 34.79 | 60.00 | -25.21 | QP |
| 122 | 27.27160 | 7.28 | 9.83 | 0.13 | 10.00 | 27.24 | 50.00 | -22.76 | Average |

Measured = Reading + Lisn Factor +Cable Loss+Atten_Fac. The emission levels that are 20dB below the official limit are not reported.

Note: Pre-scan all modes and recorded the worst case results in this report.

7. RADIATED EMISSION MEASUREMENT

7.1. Standard Applicable

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation. 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) and 15.249 limit in the table below has to be followed.

| Fundamental Frequency | Field Strength of fundamental (millivolts/meter) | Field Strength of harmonics (microvolts/meter) |
|--------------------------|--------------------------------------------------|------------------------------------------------|
| 902-928MHz | 50 | 500 |
| 2400-2483.5MHz | 50 | 500 |
| 5725-5875MHz | 50 | 500 |
| 24.0-24.25GHz | 250 | 2500 |

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

7.2. Instruments Setting

The following table is the setting of spectrum analyzer and receiver.

| Spectrum 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 |

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

7.3. Test Procedure

1) Sequence of testing 9 kHz to 30 MHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0 ° to 315 ° using 45 ° steps.
- --- The antenna height is 0.8 meter.
- --- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

- --- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0 $^{\circ}$ to 360 $^{\circ}$) and by rotating the elevation axes (0 $^{\circ}$ to 360 $^{\circ}$).
- --- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

2) Sequence of testing 30 MHz to 1 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0 °to 315 °using 45 °steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height changes from 1 to 3 meter.
- --- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ($\pm45^{\circ}$) and antenna movement between 1 and 4 meter.
- --- The final measurement will be done with QP detector with an EMI receiver.
- --- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

3) Sequence of testing 1 GHz to 12.75 GHz

Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

Premeasurement:

- --- The turntable rotates from 0 $^{\circ}$ to 315 $^{\circ}$ using 45 $^{\circ}$ steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height is 1.5 meter.
- --- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum found antenna polarisation and turntable position of the premeasurement the software maximizes the peaks by rotating the turntable position (0 $^{\circ}$ to 360 $^{\circ}$). This measurement is repeated for different EUT-table positions (0 $^{\circ}$ to 150 $^{\circ}$ in 30 $^{\circ}$ -steps). This procedure is repeated for both antenna polarisations.
- --- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and RMS detector.
- --- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

4) Sequence of testing above 12.75 GHz

Setup:

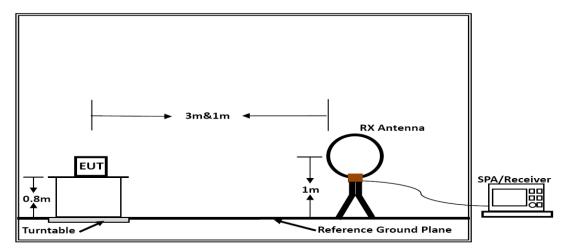
- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 1 meter.
- --- The EUT was set into operation.

Premeasurement:

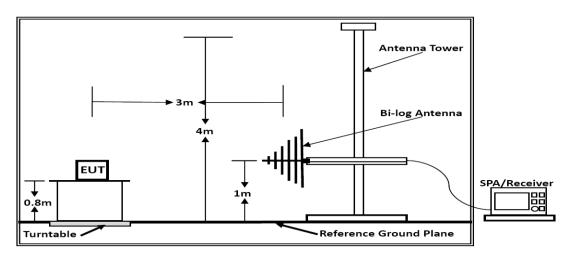
--- The antenna is moved spherical over the EUT in different polarisations of the antenna.

- --- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and RMS detector.
- --- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

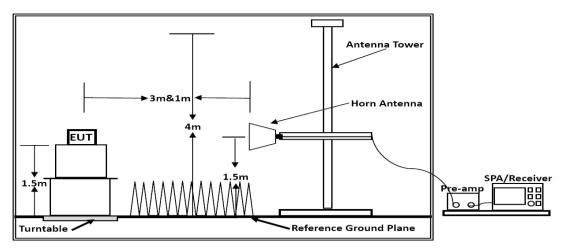
7.4. Block Diagram of Test Setup



Below 30MHz



Below 1GHz



Above 1GHz

7.5. Test Results

Results of Radiated Emissions (9kHz~30MHz)

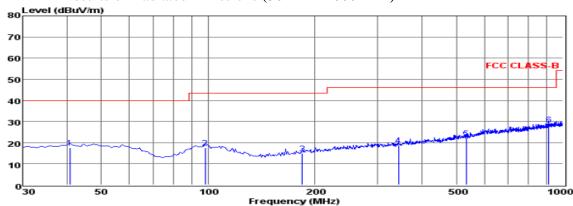
| Frequency (MHz) | Level (dBuV) | Over Limit (dB) | Over Limit (dBuV) | Remark |
|-----------------|-----------------|-----------------|----------------------|----------|
| - | - | - | - | See Note |

Note:

The radiated emissions from 9kHz to 30MHz are at least 20dB below the official limit and no need to report.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor.

Results of Radiated Emissions (30MHz~1000MHz)



Env./Ins: EUT: M/N: Power Rating: Test Mode: Operator: Memo:

pol:

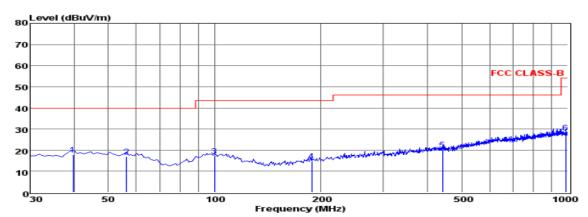
24℃/56% Game Controller Gamesir-G3s

DC 3.7V TX-High Channel(2480MHz) Leo

HORIZONTAL

| | rreq | Reading | сарьоз | Antrac | Measured | Limit | Over | Remark |
|---|--------|---------|--------|--------|----------|--------|--------|--------|
| | MHz | dBuV | dB | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 40.67 | 3.60 | 0.50 | 13.58 | 17.68 | 40.00 | -22.32 | QP |
| 2 | 97.90 | 4.03 | 0.61 | 13.03 | 17.67 | 43.50 | -25.83 | QP |
| 3 | 184.23 | 4.16 | 0.70 | 10.05 | 14.91 | 43.50 | -28.59 | QP |
| 4 | 343.31 | 3.37 | 1.12 | 14.17 | 18.66 | 46.00 | -27.34 | QP |
| 5 | 533.43 | 3.43 | 1.46 | 17.21 | 22.10 | 46.00 | -23.90 | QP |
| 6 | 911.73 | 5.39 | 1.86 | 21.17 | 28.42 | 46.00 | -17.58 | QP |
| | | | | | | | | |

Note: 1. All readings are Quasi-peak values.
2. Measured= Reading + Antenna Factor + Cable Loss
3. The emission that ate 20db blow the offficial limit are not reported



Env./Ins: 24℃/56%

EUT: Game Controller M/N: Gamesir-G3s

Power Rating: DC 3.7V

Test Mode: TX-High Channel (2480MHz)

Operator: Leo

Memo:

pol: VERTICAL

| | Freq | Reading | CabLos | Antfac | Measured | Limit | Over | Remark |
|---|--------|---------|--------|--------|----------|--------|--------|--------|
| | MHz | dBuV | dВ | dB/m | dBuV/m | dBuV/m | dB | |
| 1 | 39.70 | 3.91 | 0.38 | 13.50 | 17.79 | 40.00 | -22.21 | QP |
| 2 | 56.19 | 3.58 | 0.47 | 12.94 | 16.99 | 40.00 | -23.01 | QP |
| 3 | 99.84 | 3.38 | 0.60 | 13.15 | 17.13 | 43.50 | -26.37 | QP |
| 4 | 188.11 | 3.61 | 0.98 | 10.39 | 14.98 | 43.50 | -28.52 | QP |
| 5 | 442.25 | 3.35 | 1.25 | 15.56 | 20.16 | 46.00 | -25.84 | QP |
| 6 | 987.39 | 4.47 | 1.97 | 21.66 | 28.10 | 54.00 | -25.90 | QP |

Note: 1. All readings are Quasi-peak values. 2. Measured= Reading + Antenna Factor + Cable Loss 3. The emission that ate 20db blow the offficial limit are not reported ***Note: Pre-scan all mode and recorded the worst case results in this report (TX- 2480MHz).

7.6. Results for Radiated Emissions (Above 1GHz)

| | Field Strength Of Fundamental (TX-2402MHz) | | | | | | | | | | | |
|-----------------|--------------------------------------------|--------------------------------|------------------------------|------------------------|-----------------------|--------|--|--|--|--|--|--|
| Frequency (MHz) | Pol. | Measure Result (PK, dBuV/m) | Measure Result (AVG, dBuV/m) | Peak Limit (dBuV/m) | AVG Limit (dBuV/m) | Result | | | | | | |
| 2402 | Н | 86.16 | 84.64 | 114 | 94 | Pass | | | | | | |
| 2402 | V | 89.43 | 86.71 | 114 | 94 | Pass | | | | | | |

| Freq. MHz | Reading Level dBuV | Ant. Fac. dB/m | Pre. Fac. dB | Cab. Loss dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark | Pol. |
|--------------|--------------------------|----------------------|--------------------|--------------------|--------------------|-----------------|--------------|---------|------------|
| 4804.13 | 44.37 | 33.06 | 35.04 | 3.94 | 46.33 | 74 | -27.67 | Peak | Horizontal |
| 4804.16 | 35.64 | 33.06 | 35.04 | 3.94 | 37.60 | 54 | -16.40 | Average | Horizontal |
| 4804.13 | 47.51 | 33.06 | 35.04 | 3.94 | 49.47 | 74 | -24.53 | Peak | Vertical |
| 4804.16 | 38.12 | 33.06 | 35.04 | 3.94 | 40.08 | 54 | -13.92 | Average | Vertical |

| | Field Strength Of Fundamental (TX-2441MHz) | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------|-------|-----|----|------|--|--|--|--|--|
| Frequency (MHz) Pol. Measure Result Measure Result Peak Limit AVG Limit (AVG, dBuV/m) (AVG, dBuV/m) (dBuV/m) Result | | | | | | | | | | | |
| 2441 H 83.67 81.94 114 94 | | | | | | | | | | | |
| 2441 | V | 86.31 | 84.53 | 114 | 94 | Pass | | | | | |

| Freq. MHz | Reading Level dBuV | Ant. Fac. dB/m | Pre. Fac. dB | Cab. Loss dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark | Pol. |
|--------------|--------------------------|----------------------|--------------------|--------------------|--------------------|-----------------|--------------|---------|------------|
| 4882.21 | 45.83 | 33.16 | 35.15 | 3.96 | 47.80 | 74 | -26.20 | Peak | Horizontal |
| 4882.23 | 36.19 | 33.16 | 35.15 | 3.96 | 38.16 | 54 | -15.84 | Average | Horizontal |
| 4882.21 | 48.11 | 33.16 | 35.15 | 3.96 | 50.08 | 74 | -23.92 | Peak | Vertical |
| 4882.23 | 39.63 | 33.16 | 35.15 | 3.96 | 41.60 | 54 | -12.40 | Average | Vertical |

| Field Strength Of Fundamental (TX-2480MHz) | | | | | | | |
|--------------------------------------------|-------|----------------|----------------|------------|-----------|--------|--|
| Frequency | Pol. | Measure Result | Measure Result | Peak Limit | AVG Limit | Result | |
| (MHz) | 1 01. | (PK, dBuV/m) | (AVG, dBuV/m) | (dBuV/m) | (dBuV/m) | Result | |
| 2480 | Н | 88.11 | 86.45 | 114 | 94 | Pass | |
| 2480 | V | 91.37 | 89.69 | 114 | 94 | Pass | |

| Freq. MHz | Reading Level dBuV | Ant. Fac. dB/m | Pre. Fac. dB | Cab. Loss dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark | Pol. |
|--------------|--------------------------|----------------------|--------------------|--------------------|--------------------|-----------------|--------------|---------|------------|
| 4960.33 | 46.67 | 33.26 | 35.14 | 3.98 | 48.77 | 74 | -25.23 | Peak | Horizontal |
| 4960.35 | 37.06 | 33.26 | 35.14 | 3.98 | 39.16 | 54 | -14.84 | Average | Horizontal |
| 4960.33 | 50.11 | 33.26 | 35.14 | 3.98 | 52.21 | 74 | -21.79 | Peak | Vertical |
| 4960.35 | 41.32 | 33.26 | 35.14 | 3.98 | 43.42 | 54 | -10.58 | Average | Vertical |

Notes:

- 1. Measuring frequencies from 9k~10th harmonic (ex. 26GHz), No emission found between lowest internal used/generated frequency to 30MHz.
- 2. Radiated emissions measured in frequency range from 9k~10th harmonic (ex. 26GHz) were made with an instrument using Peak detector mode.
- 3. No emission was be recorded above 18GHz means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

7.7. Results for Band edge Testing (Radiated)

Only record the worst test case as following:

TX-2402MHz

| Freq. MHz | Reading Level dBuV | Ant. Fac. dB/m | Pre. Fac. dB | Cab. Loss dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark | Pol. |
|--------------|--------------------------|----------------------|--------------------|--------------------|--------------------|-----------------|--------------|---------|------------|
| 2373.61 | 43.85 | 32.89 | 35.16 | 3.51 | 45.09 | 74 | -28.91 | Peak | Horizontal |
| 2373.64 | 35.56 | 32.90 | 35.16 | 3.51 | 36.81 | 54 | -17.19 | Average | Horizontal |
| 2390.00 | 47.42 | 32.92 | 35.16 | 3.54 | 48.72 | 74 | -25.28 | Peak | Horizontal |
| 2389.97 | 35.37 | 32.92 | 35.16 | 3.54 | 36.67 | 54 | -17.33 | Average | Horizontal |
| 2400.00 | 53.94 | 32.92 | 35.16 | 3.54 | 55.24 | 74 | -18.76 | Peak | Horizontal |
| 2399.98 | 44.19 | 32.92 | 35.16 | 3.54 | 45.49 | 54 | -8.51 | Average | Horizontal |
| 2373.61 | 44.25 | 32.89 | 35.16 | 3.51 | 45.49 | 74 | -28.51 | Peak | Vertical |
| 2373.64 | 33.10 | 32.90 | 35.16 | 3.51 | 34.35 | 54 | -19.65 | Average | Vertical |
| 2390.00 | 45.18 | 32.92 | 35.16 | 3.54 | 46.48 | 74 | -27.52 | Peak | Vertical |
| 2389.97 | 35.04 | 32.92 | 35.16 | 3.54 | 36.34 | 54 | -17.66 | Average | Vertical |
| 2400.00 | 55.30 | 32.92 | 35.16 | 3.54 | 56.60 | 74 | -17.40 | Peak | Vertical |
| 2399.98 | 45.59 | 32.92 | 35.16 | 3.54 | 46.89 | 54 | -7.11 | Average | Vertical |

TX-2480MHz

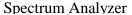
| Freq. MHz | Reading Level dBuV | Ant. Fac. dB/m | Pre. Fac. dB | Cab. Loss dB | Measured dBuV/m | Limit dBuV/m | Margin dB | Remark | Pol. |
|--------------|--------------------------|----------------------|--------------------|--------------------|--------------------|-----------------|--------------|---------|------------|
| 2483.50 | 45.56 | 33.06 | 35.18 | 3.60 | 47.04 | 74 | -26.96 | Peak | Horizontal |
| 2483.53 | 34.92 | 33.08 | 35.18 | 3.60 | 36.42 | 54 | -17.58 | Average | Horizontal |
| 2486.87 | 45.84 | 33.08 | 35.18 | 3.62 | 47.36 | 74 | -26.64 | Peak | Horizontal |
| 2486.90 | 36.23 | 33.08 | 35.18 | 3.62 | 37.75 | 54 | -16.25 | Average | Horizontal |
| 2483.50 | 46.69 | 33.06 | 35.18 | 3.60 | 48.17 | 74 | -25.83 | Peak | Vertical |
| 2483.53 | 38.02 | 33.08 | 35.18 | 3.60 | 39.52 | 54 | -14.48 | Average | Vertical |
| 2486.87 | 44.96 | 33.08 | 35.18 | 3.62 | 46.48 | 74 | -27.52 | Peak | Vertical |
| 2486.90 | 36.15 | 33.08 | 35.18 | 3.62 | 37.67 | 54 | -16.33 | Average | Vertical |

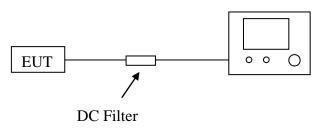
8. 20 DB BANDWIDTH MEASUREMENT

8.1. Standard Applicable

According to §15.215

8.2. Block Diagram of Test Setup





8.3. Test Procedure

Use the following spectrum analyzer settings:

Span = 3MHz

RBW = 30KHz

VBW = 100KHz

Sweep = auto

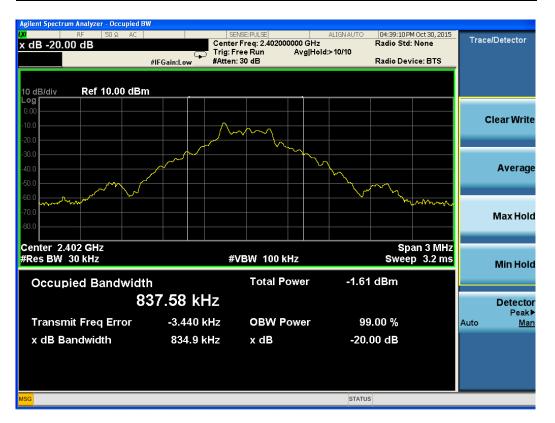
Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

8.4. Test Results

| Test Result Of 20dB Bandwidth Measurement | | | | | | | |
|-------------------------------------------|----------------|---------------|--|--|--|--|--|
| Test Frequency | 20dB Bandwidth | Limit | | | | | |
| (MHz) | (MHz) | (MHz) | | | | | |
| 2402 | 0.835 | | | | | | |
| 2441 | 0.841 | Non-Specified | | | | | |
| 2480 | 0.843 | | | | | | |







----THE END OF REPORT-----