FCC TEST REPORT

For

AtGames Digital Media Inc.

Legends Ultimate Home Arcade

Test Model: HA8801S

Additional Model No.: Please Refer to Page 10

Prepared for : AtGames Digital Media Inc.

Address 2228 E Maple Ave, El Segundo, CA 90245, USA

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.

101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street,

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: October 15, 2020 Date of receipt of test sample

Number of tested samples

Serial number : Prototype

Date of Test : October 15, 2020 ~ October 16, 2020

: October 17, 2020 Date of Report

Grino Linos

FCC TEST REPORT FCC CFR 47 PART 15 C (15.247)

Report Reference No.: LCS201014017AEH

Date of Issue.....: October 17, 2020

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

101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street, Address....::

Baoan District, Shenzhen, China

. Full application of Harmonised standards

Testing Location/ Procedure...... Partial application of Harmonised standards

Applicant's Name.....: AtGames Digital Media Inc.

Address.....: 2228 E Maple Ave, El Segundo, CA 90245, USA

Test Specification

Standard..... : FCC CFR 47 PART 15 C (15.247)

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

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

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

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EUT Description.....: Legends Ultimate Home Arcade

Trade Mark.....: N/A

Test Model..... HA8801S

Ratings...... Please Refer to Page 6

Result Positive

Supervised by: Compiled by: Approved by:

fack liu Jin Wang

Jack Liu/ Administrators Jin Wang/ Administrators Gavin Liang/ Manager

FCC -- TEST REPORT

October 17, 2020 LCS201014017AEH Test Report No.: Date of issue

Test Model..... : HA8801S EUT.....: Legends Ultimate Home Arcade Applicant.....: : AtGames Digital Media Inc. Address..... : 2228 E Maple Ave, El Segundo, CA 90245, USA Telephone..... : / Fax.....: : / Manufacturer.....: : AtGames Digital Media Inc. Address..... : 2228 E Maple Ave, El Segundo, CA 90245, USA Telephone..... Fax.....: : / Factory.....: : / Address.....: : / Telephone.....:: / Fax.....: : /

Test Result	Positive
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The test report merely corresponds to the test sample.

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

Revision History

Revision	Issue Date	Revisions	Revised By
000	October 17, 2020	Initial Issue	Gavin Liang

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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Legends Ultimate Home Arcade

Test Model : HA8801S

BI65-120500-E2:

For AC Adapter: Input: AC 100-240V~ 50/60Hz, 2A

Output: DC 12V 5A BI65-120500-E1:

For AC Adapter: Input: AC 100-240V~ 50/60Hz, 2A

Output: DC 12.0V == 5.0A 60.0W

RC0653-1205000D:

Power Supply : For AC Adapter: Input: AC 100-240V~ 50/60Hz, 1.5A

Output: DC 12.0V ... 5.0A 60.0W

M120500B911:

For AC Adapter: Input: AC 100-240V~ 50/60Hz, 1.2A

Output: DC 12.0V ... 5000mA

M120500M911:

For AC Adapter: Input: AC 100-240V~ 50/60Hz, 1.2A

Output: DC 12V ... 5000mA

Hardware Version : HA8801-v2(Main board)

Software Version : 4.0.0(Main board)

Bluetooth

Frequency Range : 2402MHz-2480MHz

Bluetooth Version : V4.2

79 Channels for Bluetooth V4.2 (DSS) Bluetooth Channel Number

40 channels for Bluetooth V4.2 (DTS)

1MHz for Bluetooth V4.2 (DSS) Bluetooth Channel Spacing

2MHz for Bluetooth V4.2 (DTS)

GFSK, π/4-DQPSK, 8-DPSK for Bluetooth V4.2 (DSS)

Bluetooth Modulation Type GFSK for Bluetooth V4.2(DTS)

: Internal Antenna, 2dBi(Max) Antenna Description

2.4G WLAN

Frequency Range : 2412MHz-2462MHz

11 Channels for 20MHz bandwidth(2412~2462MHz) Channel Number

7 Channels for 40MHz bandwidth(2422~2452MHz)

: 5MHz Channel Spacing

IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK)

: IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) Modulation Type

IEEE 802.11n: OFDM (64QAM, 16QAM,QPSK,BPSK)

: Internal Antenna, 2dBi(Max) Antenna Description

5.2G WLAN

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AMTQALU20

Report No.: LCS201014017AEH

: 5180MHz-5240MHz Frequency Range

4 channels for 20MHz bandwidth(5180MHz-5240MHz)

Channel Number : 2 channels for 40MHz bandwidth(5190MHz~5230MHz)

1 channels for 80MHz bandwidth(5210MHz)

Modulation Type : IEEE 802.11a/n/ac: OFDM(256QAM,64QAM, 16QAM, QPSK, BPSK)

Antenna Description : Internal Antenna, 2dBi(Max)

5.8G WLAN

Frequency Range : 5745MHz-5825MHz

5 channels for 20MHz bandwidth(5745MHz-5825MHz)

: 2 channels for 40MHz bandwidth(5755MHz~5795MHz) Channel Number

1 channels for 80MHz bandwidth(5775MHz)

Modulation Type : IEEE 802.11a/n/ac: OFDM(256QAM,64QAM, 16QAM, QPSK, BPSK)

Antenna Description : Internal Antenna, 2dBi(Max)

Hardware Version : HA8801-CTR-V2(CTR board)

Software Version : 1.0.0(CTR board)

2.4G Emission:

Frequency Range : 2407MHz-2469MHz

Channel Number : 16

: GFSK Modulation Type

Antenna Description : PCB Antenna, 5.5dBi(max.)

Bluetooth

Frequency Range : 2402MHz-2480MHz

Bluetooth Version : V4.2

79 Channels for Bluetooth V4.2 (DSS) Bluetooth Channel Number

40 channels for Bluetooth V4.2 (DTS)

1MHz for Bluetooth V4.2 (DSS) Bluetooth Channel Spacing

2MHz for Bluetooth V4.2 (DTS)

 $\,$ GFSK, $\pi/4\text{-}DQPSK,\,8\text{-}DPSK$ for Bluetooth V4.2 (DSS) Bluetooth Modulation Type

GFSK for Bluetooth V4.2(DTS)

Antenna Description : PCB Antenna, 2dBi(Max)

1.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
BLUE IRON	Switching Power Supply	BI65-120500-E2		
HOLDINGS				
LIMITED				
BLUE IRON	Switching Power Supply	BI65-120500-E1		
HOLDINGS				
LIMITED				
ShenZhen Rongweixin	Power Supply	RC0653-1205000D		
Technology Co.,Ltd.				
MOST Optoelectronics	Power Supply	M120500B911		
International Limited				
MOST Optoelectronics	Power Supply	M120500M911		
International Limited				

Notes: For Model of BI65-120500-E2, see the report of LCS200515139AEH. For Model of BI65-120500-E1,RC0653-1205000D and M120500B911,see the report of LCS200701271AEH

1.3. External I/O Cable

I/O Port Description	Quantity	Cable
USB Port	2	N/A
DC12V Port	1	N/A
RJ45 Port	1	N/A
HDMI Port	1	N/A

1.4. Description of Test Facility

FCC Registration Number is 254912.

Industry Canada Registration Number is 9642A.

EMSD Registration Number is ARCB0108.

UL Registration Number is 100571-492.

TUV SUD Registration Number is SCN1081.

TUV RH Registration Number is UA 50296516-001.

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024

CAB identifier: CN0071.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10:2013 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5. 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

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.	FCC ID: 2AMTQALU20	Report No.: LCS201014017AEH
"Specification for radio disturbance and immin EMC Measurements" and is documented Furthermore, component and process varia deviation. The manufacturer has the sole re	in the LCS quality system acc. bility of devices similar to that to	To DIN EN ISO/IEC 17025. ested may result in additional
This report shall not be reproduced except in full without	1 CC C	Tasking Laboure Tasking Laboure Lab

1.6. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
		9KHz~30MHz	±3.10dB	(1)
		30MHz~200MHz	±2.96dB	(1)
Radiation Uncertainty	:	200MHz~1000MHz	±3.10dB	(1)
		1GHz~26.5GHz	±3.80dB	(1)
		26.5GHz~40GHz	±3.90dB	(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.

1.7. Description of Test Modes

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was the mode and channel with the highest output power that was determined to be 2.4G mode (HCH).

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be 2.4G mode (HCH).

Pre-test AC conducted emission at charge from PC mode, recorded worst case.

Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 230V/50Hz, recorded worst case.

Worst-Case data rates were utilized from preliminary testing of the Chipset, worst-case data rates used during the testing are as follows:

2.4G: GFSK.

2.4G

Frequency Band	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
	0	2407	9	2447
	1	2413		
2407~2469MHz	2	2420		
2407~2409MITZ			14	2462
			15	2467
	8	2442	16	2469

1.8 Model Lists

HA8801	HA8802	HA8803	HA8810	HA8811
HA8812	HA8818	HA8819	HA8820	HA8802S
HA8803S	HA8810S	HA8811S	HA8812S	HA8818S
HA8819S	HA8820S	HA8801B	HA8802B	HA8803B
HA8810B	HA8811B	HA8812B	HA8818B	HA8819B
HA8820B	HA8801C	HA8802C	HA8803C	HA8810C
HA8811C	HA8812C	HA8818C	HA8819C	HA8820C
HA8801D	HA8802D	HA8803D	HA8810D	HA8811D
HA8812D	HA8818D	HA8819D	HA8820D	1

PCB board, structure and internal of these model(s) are the same, So no additional models were tested

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 FCC's request, Test Procedure KDB558074 D01 DTS Meas. Guidance v05r02 is required to be used for this kind of FCC 15.247 digital modulation device.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

2.3. General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 12mm above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT 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, which is 12mm above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013.

3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmit condition. The duty cycle is 100% and the average correction factor is 0.

3.2. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software (BK32XX RF Test-v1.8.2/Manual switching/8821CS/ RTL8XXXX-linux) provided by application.

3.3. Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate

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

Applied Standard: FCC Part 15 Subpart C				
FCC Rules	Description of Test	Result	Remark	
1	On Time and Duty Cycle	/	See	
1	On Time and Daty Cycle	,	LCS200515139AEH	
§15.247(b)	Maximum Conducted Output Power	Compliant	See	
§10.247(b)	Maximum Conducted Output I Ower	Compilant	LCS200515139AEH	
§15.247(e)	Power Spectral Density	Compliant	See	
§10.247(C)	1 Ower opectial Definity	Compilant	LCS200515139AEH	
§15.247(a)(2)	6dB Bandwidth	Compliant	See	
§13.247 (a)(2)	odb Bandwidth	Compliant	LCS200515139AEH	
§15.209, §15.247(d)	Conducted Spurious Emissions	Compliant	See	
g15.209, g15.247(u)	Conducted Spanous Emissions	Compilant	LCS200515139AEH	
§15.209, §15.247(d)	Radiated Spurious Emissions	Compliant	Note 1	
\$15.205	Emissions at Dostricted Pand	Compliant	See	
915.205	§15.205 Emissions at Restricted Band		LCS200515139AEH	
§15.207(a)	Conducted Emissions	N/A	Note 1	
§15.203	Antenna Requirements	Compliant	Note 1	
§15.247(i)§2.1901	RF Exposure	Compliant	Note 2	

Remark:

- Note 1 Test results inside test report;
 Note 2 Test results in other test report (RF Exposure report);

5. TEST RESULT

5.1. On Time and Duty Cycle

5.1.1. Standard Applicable

None; for reporting purpose only.

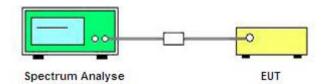
5.1.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of the spectrum analyzer.

5.1.3. Test Procedures

- 1. Set the center frequency of the spectrum analyzer to the transmitting frequency;
- 2. Set the span=0MHz, RBW=8MHz, VBW=50MHz, Sweep time=20.27ms;
- 3. Detector = peak;
- 4. Trace mode = Single hold.

5.1.4. Test Setup Layout



5.1.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.1.6. Test result

For reporting purpose only.

See LCS200515139AEH

5.2. Maximum Conducted Output Power Measurement

5.2.1. Standard Applicable

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

5.2.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of the spectrum analyzer.

5.2.3. Test Procedures

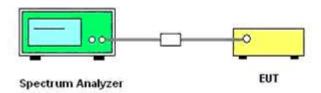
The transmitter output (antenna port) was connected to the spectrum analyzer.

According to KDB558074 D01 DTS Measurement Guidance v05r02 Section 9.1 Maximum peak conducted output power 9.1.1.

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- a) Set the RBW ≥ DTS bandwidth.
- b) Set VBW ≥ 3 × RBW.
- c) Set span ≥ 3 x RBW
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

5.2.4. Test Setup Layout



5.2.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.2.6. Test Result of Maximum Conducted Output Power

PASS

See LCS200515139AEH

Remark:

1. Test results including cable loss.

5.3. Power Spectral Density Measurement

5.3.1. Standard Applicable

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

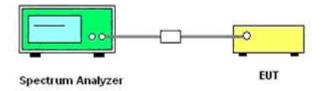
5.3.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of Spectrum Analyzer.

5.3.3. Test Procedures

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. The power was monitored at the coupler port with a Spectrum Analyzer. The power level was set to the maximum level.
- 3. Set the RBW = 3 kHz.
- 4. Set the VBW ≥ 3*RBW
- 5. Set the span to 1.5 times the DTS channel bandwidth.
- 6. Detector = peak.
- 7. Sweep time = auto couple.
- 8. Trace mode = max hold.
- Allow trace to fully stabilize.
- 10. Use the peak marker function to determine the maximum power level.
- 11. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 12. The resulting peak PSD level not more than 8 dBm/3kHz.

5.3.4. Test Setup Layout



5.3.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.3.6. Test Result of Power Spectral Density

PASS

See LCS200515139AEH

Remark:

1. Test results including cable loss.

5.4. 6 dB Spectrum Bandwidth Measurement

5.4.1. Standard Applicable

According to §15.247(a) (2): For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

5.4.2. Measuring Instruments and Setting

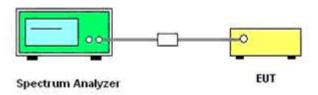
Please refer to equipment list in this report. The following table is the setting of the Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
RBW	100KHz
VBW	≥3*RBW
Span Frequency	> RBW
Detector	Peak
Trace	Max Hold
Sweep Time	1ms

5.4.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
- 2. The resolution bandwidth and the video bandwidth were set according to KDB558074 v05r02 Meas Guidance v05.
- 3. Measured the spectrum width with power higher than 6dB below carrier.

5.4.4. Test Setup Layout



5.4.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.4.6. Test Result of 6dB Spectrum Bandwidth

PASS

See LCS200515139AEH

Remark:

1. Test results including cable loss.

5.5. Radiated Emissions Measurement

5.5.1. Standard Applicable

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

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	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 13.36-13.41	322-335.4	3600-4400	(\2\)
8.41425-8.41475 12.29-12.293. 12.51975-12.52025 12.57675-12.57725	162.0125-167.17 167.72-173.2 240-285	3260-3267 3332-3339 3345.8-3358	23.6-24.0 31.2-31.8 36.43-36.5

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

\2\ Above 38.6

According to §15.247 (d): 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.

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

5.5.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver.

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

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

5.5.3. Test Procedures

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 with insulating material 12 mm.
- --- 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° to 360°) and by rotating the elevation axes (0° to 360°).
- --- 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 of 12mm.
- --- 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 (± 45°) 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 18 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 of 12mm.
- --- 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 scan range is 1 meter to 2.5 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 antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.
- --- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average 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 18 GHz

Setup:

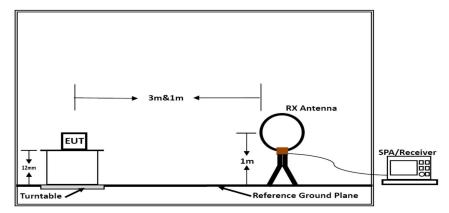
- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation of 12mm.
- --- 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:

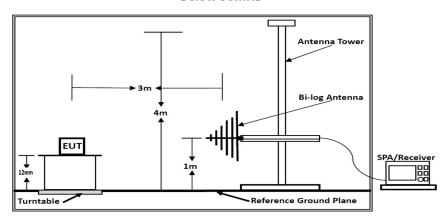
--- The antenna is moved spherical over the EUT in different polarizations of the antenna.

- --- 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 Average 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.

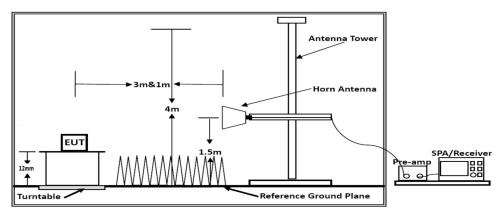
5.5.4. Test Setup Layout



Below 30MHz



Below 1GHz



Above 1GHz

Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1m.

Distance extrapolation factor = 20 log (specific distanc [3m] / test distance [1m]) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

5.5.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.5.6. Results of Radiated Emissions (9 KHz~30MHz)

Temperature	22.4°C	Humidity	53.7%
Test Engineer	Carl Fu	Configurations	2.4G

Freq.	Level	Over Limit	Over Limit	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
-	-	-	-	See Note

Note:

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

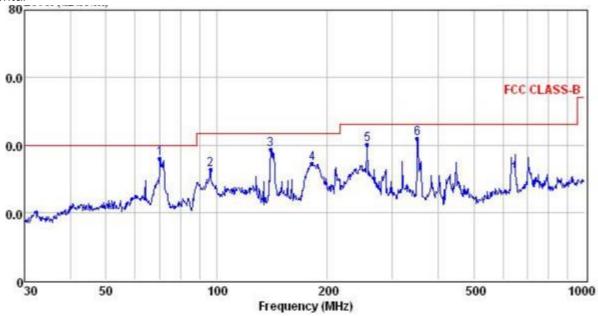
Distance extrapolation factor = 40 log (specific distance / test distance) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor.

5.5.7. Results of Radiated Emissions (30MHz~1GHz)

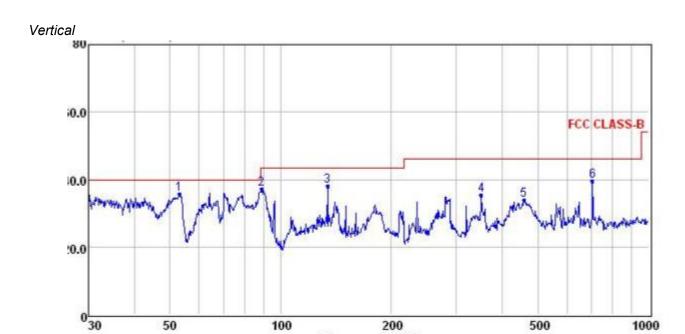
Temperature	Temperature 22.4°C		53.7%		
Test Engineer	Carl Fu	Configurations	2.4G (HCH)		

Test result for 2.4G (MCH)





	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	70.09	26.94	0.51	8.63	36.08	40.00	-3.92	QP
2	96.10	19.32	0.58	12.91	32.81	43.50	-10.69	QP
3	140.34	29.64	0.75	8.19	38.58	43.50	-4.92	QP
4	181.92	23.70	0.89	9.85	34.44	43.50	-9.06	QP
5	256.52	26.97	1.02	12.06	40.05	46.00	-5.95	QP
6	351.71	26.46	1.15	14.30	41.91	46.00	-4.09	QP



	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	52.95	22.06	0.46	13.11	35.63	40.00	-4.37	QP QP
2	88.65	24.88	0.68	11.47	37.03	43.50	-6.47	QP
3	134.09	28.62	0.74	8.63	37.99	43.50	-5.51	QP
4	351.71	19.93	1.15	14.30	35.38	46.00	-10.62	QP
5	459.11	17.09	1.26	15.59	33.94	46.00	-12.06	QP
6	704.23	19.07	1.68	18.86	39.61	46.00	-6.39	QP

Frequency (MHz)

Note:

- 1). Pre-scan all modes and recorded the worst case results in this report (2.4G (HCH)).
- 2). Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3). Corrected Reading: Antenna Factor + Cable Loss + Read Level = Level.

5.5.8. Results for Radiated Emissions (1 – 26GHz)

2.4G

Channel 0 / 2407 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4814.00	53.65	33.06	35.04	3.94	55.61	74.00	-18.39	Peak	Horizontal
4814.00	37.90	33.06	35.04	3.94	39.86	54.00	-14.14	Average	Horizontal
4814.00	53.42	33.16	35.06	3.96	55.48	74.00	-18.52	Peak	Vertical
4814.00	41.11	33.16	35.06	3.96	43.17	54.00	-10.83	Average	Vertical

Channel 19 / 2442 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4884.00	51.69	33.06	35.04	3.94	53.65	74.00	-20.35	Peak	Horizontal
4884.00	40.34	33.06	35.04	3.94	42.30	54.00	-11.70	Average	Horizontal
4884.00	53.24	33.16	35.06	3.96	55.30	74.00	-18.70	Peak	Vertical
4884.00	38.95	33.16	35.06	3.96	41.01	54.00	-12.99	Average	Vertical

Channel 39 / 2469 MHz

Freq. MHz	Reading dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4938.00	50.42	33.16	35.15	3.96	52.39	74.00	-21.61	Peak	Horizontal
4938.00	40.21	33.16	35.15	3.96	42.18	54.00	-11.82	Average	Horizontal
4938.00	50.82	33.26	35.17	3.98	52.89	74.00	-21.11	Peak	Vertical
4938.00	41.05	33.26	35.17	3.98	43.12	54.00	-10.88	Average	Vertical

Notes:

- 1). Measuring frequencies from 9 KHz~10th harmonic or 26.5GHz (which is less), No emission found between lowest internal used/generated frequency to 30MHz.
- 2). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.
- 3). Data of measurement within this frequency range shown "--- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

5.6. Conducted Spurious Emissions and Band Edges Test

5.6.1. Standard Applicable

According to §15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated

measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.6.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Detector	Peak
Attenuation	Auto
RB / VB (Emission in restricted band)	100KHz/300KHz
RB / VB (Emission in non-restricted band)	100KHz/300KHz

5.6.3. Test Procedures

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

The spectrum from 9 kHz to 26.5GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

5.6.4. Test Setup Layout

This test setup layout is the same as that shown in section 5.4.4.

5.6.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.6.6. Test Results of Conducted Spurious Emissions

PASS

See LCS200515139AEH

Remark:

- 1). Test results including cable loss;
- 2). "---"means that the fundamental frequency not for 15.209 limits requirement.
- 3). Not recorded emission from 9 KHz to 30 MHz as emission level at least 20dBc lower than emission limit.

5.7. AC Power Line Conducted Emissions

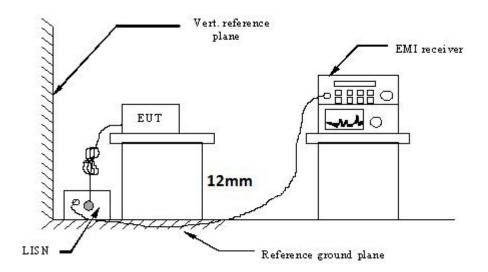
5.7.1 Standard Applicable

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 microvolts (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:

Frequency Range	Limits (dBµV)			
(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		

^{*} Decreasing linearly with the logarithm of the frequency

5.7.2 Block Diagram of Test Setup

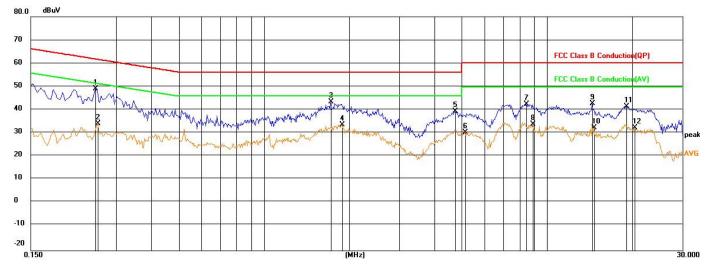


5.7.3 Test Results

The test data please refer to following page.

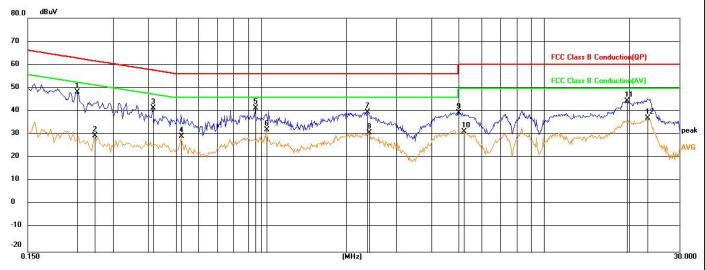
AC Conducted Emission of GFSK middle channel @ AC 120V/60Hz @ GFSK (worst case)





No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	Hz) (dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.2545	29.90	19.23	49.13	61.61	-12.48	QP
2	0.2580	15.13	19.24	34.37	51.50	-17.13	AVG
3	1.7249	24.12	19.36	43.48	56.00	-12.52	QP
4	1.8869	14.50	19.38	33.88	46.00	-12.12	AVG
5	4.7399	20.04	19.48	39.52	56.00	-16.48	QP
6	5.1359	10.90	19.49	30.39	50.00	-19.61	AVG
7	8.4480	23.00	19.64	42.64	60.00	-17.36	QP
8	8.8840	14.34	19.65	33.99	50.00	-16.01	AVG
9	14.4375	22.68	20.09	42.77	60.00	-17.23	QP
10	14.6310	12.31	20.12	32.43	50.00	-17.57	AVG
11	19.0853	21.43	20.10	41.53	60.00	-18.47	QP
12	20.3323	12.44	20.05	32.49	50.00	-17.51	AVG

Neutral



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(MHz) (dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.2242	29.27	19.20	48.47	62.66	-14.19	QP
2	0.2584	10.57	19.24	29.81	51.48	-21.67	AVG
3	0.4153	22.32	19.32	41.64	57.54	-15.90	QP
4	0.5231	10.30	19.31	29.61	46.00	-16.39	AVG
5	0.9554	22.31	19.28	41.59	56.00	-14.41	QP
6	1.0454	13.08	19.26	32.34	46.00	-13.66	AVG
7	2.3774	20.41	19.43	39.84	56.00	-16.16	QP
8	2.4043	11.52	19.43	30.95	46.00	-15.05	AVG
9	4.9919	20.11	19.49	39.60	56.00	-16.40	QP
10	5.1943	12.01	19.50	31.51	50.00	-18.49	AVG
11	19.6259	24.57	20.06	44.63	60.00	-15.37	QP
12	23.1944	17.18	20.08	37.26	50.00	-12.74	AVG

***Note:

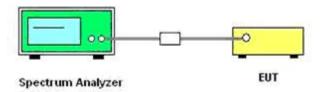
1) Pre-scan all modes and recorded the worst case results in this report (GFSK).

5.8. Band-edge Measurements for Radiated Emissions

5.8.1 Standard Applicable

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. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

5.8.2. Test Setup Layout



5.8.3. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of Spectrum Analyzer.

5.8.4. Test Procedures

According to KDB 558074 v05r02 Meas Guidance v05 for Antenna-port conducted measurement. Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to an EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1MHz, VBW=3MHz for peak detector and RBW=1MHz, VBW=1/B for Peak detector.
- 4. 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.
- 5. Repeat above procedures until all measured frequencies were complete.
- 6. Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 12.2.2, 12.2.3, and 12.2.4 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- 7. Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see 12.2.5 for guidance on determining the applicable antenna gain)
- 8. Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz. 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- 9. For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- 10. Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

E = EIRP - 20log D + 104.8

Where:

 $E = electric field strength in dB\mu V/m$,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

- 11. Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.
- 12. Compare the resultant electric field strength level to the applicable regulatory limit.
- 13. Perform radiated spurious emission test duress until all measured frequencies were complete.

5.8.5 Test Results

PASS

See LCS200515139AEH

Remark:

- 1). Test results including cable loss;
- 2). "---"means that the fundamental frequency not for 15.209 limits requirement;
- 3). The average measurement was not performed when the peak measured data under the limit of average detection.
- 4). Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=330Hz/Sweep time=Auto/Detector=Peak.
- 5). Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

5.9. Antenna Requirements

5.9.1 Standard Applicable

According to antenna requirement of §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 re-placed by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

And according to §15.247(4)(1), system operating in the 2400-2483.5MHz bands that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

5.9.2 Antenna Connected Construction

5.9.2.1. 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.

5.9.2.2. Antenna Connector Construction

The directional gains of antenna used for transmitting is 5.5dBi, and the antenna is a PCB Antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details.

5.9.2.3. Results: Compliance.

6. LIST OF MEASURING EQUIPMENTS

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	Power Meter	R&S	NRVS	100444	2020-06-10	2021-06-09
2	Power Sensor	R&S	NRV-Z81	100458	2020-06-10	2021-06-09
3	Power Sensor	R&S	NRV-Z32	10057	2020-06-10	2021-06-09
4	Test Software	Tonscend	JS1120-2	/	N/A	N/A
5	RF Control Unit	Tonscend	JS0806-2	N/A	2020-06-10	2021-06-09
6	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2020-06-10	2021-06-09
7	DC Power Supply	Agilent	E3642A	N/A	2019-11-14	2020-11-13
8	EMI Test Software	AUDIX	E3	/	N/A	N/A
9	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2020-06-11	2021-06-10
10	Positioning Controller	MF	MF-7082	N/A	2020-06-11	2021-06-10
11	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2020-07-26	2021-07-25
12	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2020-07-26	2021-07-25
13	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2020-07-02	2021-07-01
14	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2020-09-18	2021-09-17
15	Broadband Preamplifier	SCHWARZBECK	BBV 9719	9719-025	2020-09-18	2021-09-17
16	EMI Test Receiver	R&S	ESR 7	101181	2020-06-11	2021-06-10
17	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2019-11-14	2020-11-13
18	Broadband Preamplifier	/	BP-01M18G	P190501	2020-06-30	2021-06-29
19	RF Cable-R03m	Jye Bao	RG142	CB021	2020-06-11	2021-06-10
20	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03СН03-НҮ	2020-06-11	2021-06-10
21	6dB Attenuator	/	100W/6dB	1172040	2020-06-10	2021-06-09
22	3dB Attenuator	/	2N-3dB	/	2020-06-10	2021-06-09
23	EMI Test Receiver	R&S	ESPI	101840	2020-06-10	2021-06-09
24	Artificial Mains	R&S	ENV216	101288	2020-06-11	2021-06-10
25	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2020-06-10	2021-06-09

Note: All equipment is calibrated through CHINA CEPREI LABORATORY and GUANGZHOU LISAI CALIBRATION AND TEST CO., LTD.

7. TEST SETUP PHOTOGRAPHS

Please refer to separated files for Test Setup Photos of the EUT.

8. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

9. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

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