FCC TEST REPORT FOR

Shenzhen Reiie intelligent technology Co., Itd

Multifunction Wireless Keyboard

Test Model: H9+

List Model No.: RT629, RT628, H9S, I9, I9S, I9+, RT629BL, H9BL+, H9BLS

Prepared for : Shenzhen Reiie intelligent technology Co., Itd

Address : 401,4F, NO.1 Building,Zhongkenuo Industry Park, Hezhou

Development Zone, Xixiang Street, Baoan District, Shenzhen

City, China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.

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Date of receipt of test sample : March 07, 2017

Number of tested samples : 1

Serial number : Prototype

Date of Test : March 07, 2017~March 23, 2017

Date of Report : March 23, 2017

FCC TEST REPORT

FCC CFR 47 PART 15 C(15.247): 2015

Report Reference No.: LCS1703070689E

Date of Issue.....: March 23, 2017

Testing Laboratory Name: Shenzhen LCS Compliance Testing Laboratory Ltd.

Bao'an District, Shenzhen, Guangdong, China

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

Partial application of Harmonised standards

Other standard testing method

Applicant's Name.....: Shenzhen Reiie intelligent technology Co., ltd

Address : 401,4F, NO.1 Building,Zhongkenuo Industry Park, Hezhou

Development Zone, Xixiang Street, Baoan District, Shenzhen City,

China

Test Specification

Standard.....: FCC CFR 47 PART 15 C(15.247): 2015

Test Report Form No.: LCSEMC-1.0

TRF Originator: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF : Dated 2011-03

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Test Item Description.: Multifunction Wireless Keyboard

Trade Mark.....: N/A
Test Model: H9+

Ratings: DC 3.7V by battery(300mAh)

Charging voltage: 5.0V—, 300mA

Result: Positive

Compiled by:

Supervised by:

Approved by:

Ada Liang/ File administrators

Glin Lu/ Technique principal

Gavin Liang/ Manager

FCC -- TEST REPORT

 Test Report No. :
 LCS1703070689E
 March 23, 2017

 Date of issue

Test Model..... : H9+ EUT.....: : Multifunction Wireless Keyboard : Shenzhen Reiie intelligent technology Co., Itd Applicant..... Address..... : 401,4F, NO.1 Building,Zhongkenuo Industry Park, Hezhou Development Zone, Xixiang Street, Baoan District, Shenzhen City, Telephone.....:: : / Fax..... Manufacturer.....: : Shenzhen Reiie intelligent technology Co., Itd : 401,4F, NO.1 Building, Zhongkenuo Industry Park, Hezhou Address..... Development Zone, Xixiang Street, Baoan District, Shenzhen City, China Telephone.....:: : / Fax..... Factory.....: Shenzhen Reiie intelligent technology Co., Itd : 401,4F, NO.1 Building,Zhongkenuo Industry Park, Hezhou Address..... Development Zone, Xixiang Street, Baoan District, Shenzhen City, China 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
00	March 23, 2017	Initial Issue	Gavin Liang

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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT : Multifunction Wireless Keyboard

Test Model : H9+

Model Number : H9+, RT629, RT628, H9S, I9, I9S, I9+, RT629BL, H9BL+,

H9BLS

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

same, So no additional models were tested.

Power Supply : DC 3.7V by battery (300mAh)

Recharge Voltage: 5.0V---, 300mA

Hardware version : RT628_V03_1F1219 Software version : RT628_V01_1F1219

Frequency Range : 2407-2477MHz

(2407, 2408, 2410, 2414, 2421, 2428, 2435, 2437, 2440,

2441, 2442, 2455, 2467, 2468, 2469, 2477 (Unit: MHz))

Channel Number : 16
Modulation Type : GFSK

Antenna Description : Internal Antenna, 0dBi(Max.)

1.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
Lenovo	PC	B470		DOC
Lenovo	AC/DC ADAPTER	ADP-90DDB		DOC

1.3 External I/O Cable

I/O Port Description	Quantity	Cable
Charge Interface	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

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 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 "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.

1.6 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 works in the X-axis, Y-axis, Z-axis. 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.

Mode of Operations	Frequency Range (MHz)		
		2407	
GFSK	2440		
	2477		
For Conduction		ed Emission	
Test Mode		TX Mode	
For Radiate		d Emission	
Test Mode		TX Mode	

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 TX (2407MHz Hopping Mode).

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(2407MHz).

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

Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worst case.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR PART 15C 15.207, 15.209, 15.247 and DA 00-705.

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 15.207, 15.209, 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 0.8 m 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 turntable, which is directly placed on the ground. 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 transmits 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

Applied Standard: FCC Part 15 Subpart C				
FCC Rules	Description of Test	Result		
§15.247(b)(1)	Maximum Conducted Output Power	Compliant		
§15.247(c)	Frequency Separation And 20 dB Bandwidth	Compliant		
§15.247(a)(1)(ii)	Number Of Hopping Frequency	Compliant		
§15.247(a)(1)(iii)	Time Of Occupancy (Dwell Time)	Compliant		
§15.209, §15.205	Conducted Spurious Emissions and Band Edges Test	Compliant		
§15.209, §15.247(d)	.209, §15.247(d) Radiated and Conducted Spurious Emissions			
§15.205	Emissions at Restricted Band	Compliant		
§15.207(a)	Conducted Emissions	Compliant		
§15.203	Antenna Requirements	Compliant		
§15.247(i)§2.1093	RF Exposure	Compliant		

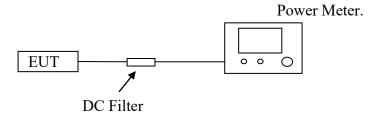
5. SUMMARY OF TEST EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	Power Sensor	R&S	NRV-Z51	100458	2016-06-18	2017-06-17
2	Power Sensor	R&S	NRV-Z32	10057	2016-06-18	2017-06-17
3	Power Meter	R&S	NRVS	100444	2016-06-18	2017-06-17
4	DC Filter	MPE	23872C	N/A	2016-06-18	2017-06-17
5	RF Cable	Harbour Industries	1452	N/A	2016-06-18	2017-06-17
6	SMA Connector	Harbour Industries	9625	N/A	2016-06-18	2017-06-17
7	Spectrum Analyzer	Agilent	N9020A	MY50510140	2016-10-27	2017-10-26
8	Signal analyzer	Agilent	E4448A(Exter nal mixers to 40GHz)	US44300469	2016-06-16	2017-06-15
9	RF Cable	Hubersuhne	Sucoflex104	FP2RX2	2016-06-18	2017-06-17
10	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2016-06-18	2017-06-17
11	Amplifier	SCHAFFNER	COA9231A	18667	2016-06-18	2017-06-17
12	Amplifier	Agilent	8449B	3008A02120	2016-06-16	2017-06-15
13	Amplifier	MITEQ	AMF-6F-2604 00	9121372	2016-06-16	2017-06-15
14	Loop Antenna	R&S	HFH2-Z2	860004/001	2016-06-18	2017-06-17
15	By-log Antenna	SCHWARZBEC K	VULB9163	9163-470	2016-06-10	2017-06-09
16	Horn Antenna	EMCO	3115	6741	2016-06-10	2017-06-09
17	Horn Antenna	SCHWARZBEC K	BBHA9170	BBHA9170154	2016-06-10	2017-06-09
18	RF Cable-R03m	Jye Bao	RG142	CB021	2016-06-18	2017-06-17
19	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2016-06-18	2017-06-17
20	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	101142	2016-06-18	2017-06-17
21	Artificial Mains	ROHDE & SCHWARZ	ENV216	101288	2016-06-18	2017-06-17
22	EMI Test Software	AUDIX	E3	N/A	2016-06-18	2017-06-17

6. MEASUREMENT RESULTS

6.1 Peak Power

6.1.1 Block Diagram of Test Setup



6.1.2 Limit

According to §15.247(b)(1), For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

6.1.3 Test Procedure

The transmitter output is connected to the Power Meter.

6.1.4 Test Results

Test Mode	Channel	Frequency (MHz)	Measured Maximum Peak Power (dBm)	Limits (dBm)	Verdict
	0	2407	5.958		
GFSK	5	2440	6.017	21	PASS
	15	2477	6.020		

Remark:

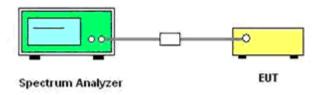
1. Test results including cable loss;

6.2 Frequency Separation and 20 dB Bandwidth

6.2.1 Limit

According to §15.247(a) (1), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

6.2.2 Block Diagram of Test Setup



6.2.3 Test Procedure

Frequency separation test procedure:

- 1). Place the EUT on the table and set it in transmitting mode.
- 2). Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- 3). Set center frequency of Spectrum Analyzer = middle of hopping channel.
- 4). Set the Spectrum Analyzer as RBW = 100 kHz, VBW = 300 kHz, Span = wide enough to capture the peaks of two adjacent channels, Sweep = auto.
- 5). Max hold, mark 2 peaks of hopping channel and record the 2 peaks frequency.

20dB bandwidth test procedure:

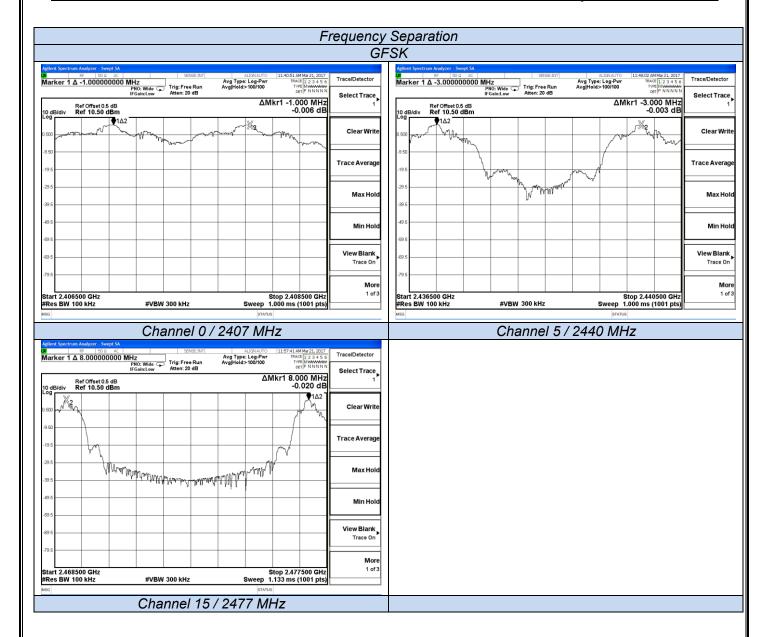
- 1). Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel.
- 2). RBW ≥1% of the 20 dB bandwidth, VBW ≥RBW.
- 3). Detector function = peak.
- 4). Trace = max hold.

6.2.4 Test Results

The Measurement Result For GFSK Modulation					
Channal	Dogult				
Channel (KHz) (MHz)		(KHz)	Result		
Low	1102.0	1.000	734.7	Pass	
Middle	1102.0	3.000	734.7	Pass	
High	1098.0	8.000	732.0	Pass	

Remark:

- 1. Test results including cable loss;
- 2. please refer to following plots;



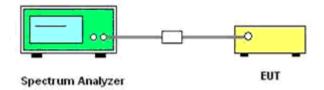


6.3 Number of Hopping Frequency

6.3.1 Limit

According to §15.247(a)(1)(ii) or A8.1 (d), Frequency hopping systems operating in the band 2400-2483.5 MHz shall use at least 15 hopping channels.

6.3.2 Block Diagram of Test Setup



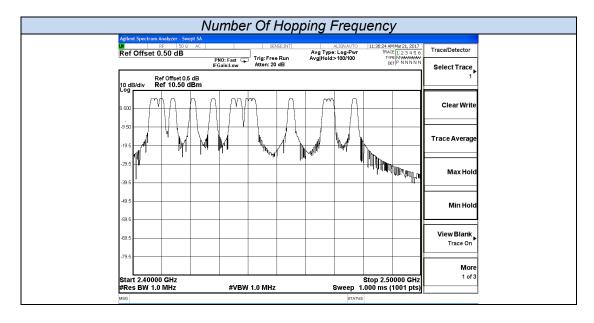
6.3.3 Test Procedure

- 1). Place the EUT on the table and set it in transmitting mode.
- 2). Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- 3). Set Spectrum Analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
- 4). Set the Spectrum Analyzer as RBW, VBW=1MHz.
- 5). Max hold, view and count how many channel in the band.

6.3.4 Test Results

The Measurement Result For GFSK Modulation				
Total No. of	Measurement Result (No. of Ch)	Limit (MHz)	Result	
Hopping Channel	16	≥15	Pass	

Note: The test data refer to the following page.

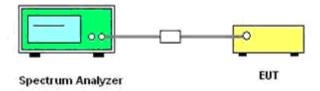


6.4 Time of Occupancy (Dwell Time)

6.4.1 Limit

According to §15.247(a)(1)(iii) or A8.1 (d), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands. The average time of occupancy on any channels shall not greater than 0.4 s within a period 0.4 s multiplied by the number of hopping channels employed.

6.4.2 Block Diagram of Test Setup



6.4.3 Test Procedure

- 1). Place the EUT on the table and set it in transmitting mode.
- 2). Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- 3). Set center frequency of Spectrum Analyzer = operating frequency.
- 4). Set the Spectrum Analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.
- 5). Repeat above procedures until all frequency measured was complete.

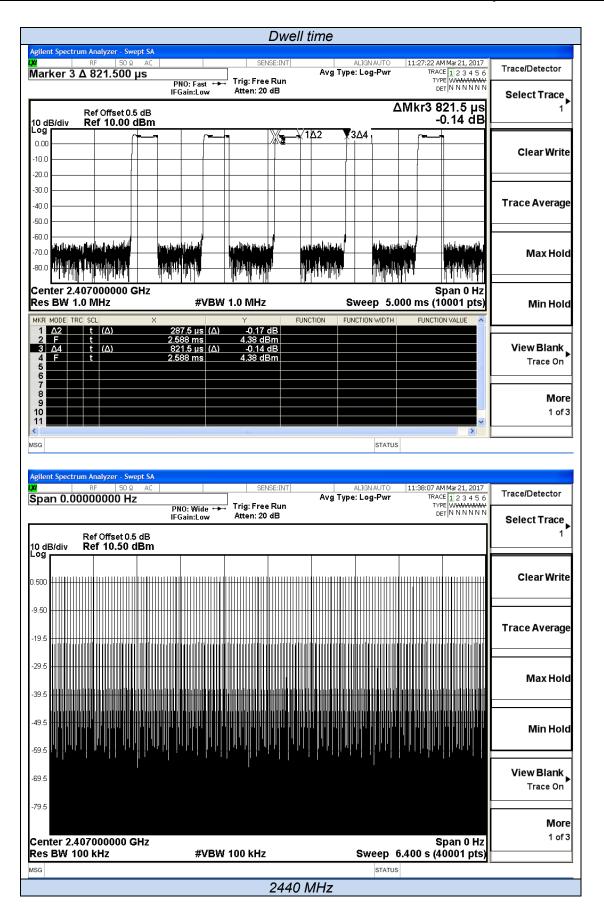
6.4.4 Test Results

The Dwell Time=Burst Width*Total Hops. The detailed calculations are showed as follows: The duration for dwell time calculation: 0.4[s]*hopping number=0.4[s]*16[ch]=6.4s; The dwell time for all channels hopping: single pulse width * total pulses= 0.288ms*147=0.04s

Mode	Channel	Frequenc y (MHz)	Pulse Width (ms)	Number of Pulses	Dwell Time (S)	Limit (S)	Verdict
GFSK	Middle	2407	0.288	147	0.04	0.4	PASS

Remark:

- 1. Test results including cable loss;
- 2. please refer to following plots;
- 3. Dwell Time Calculate formula: Dwell Time=Burst Length(ms)* Number of Pulses

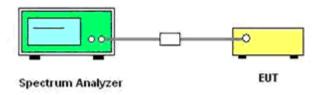


6.5 Conducted Spurious Emissions and Band Edges Test

6.5.1 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required.

6.5.2 Block Diagram of Test Setup



6.5.3 Test Procedure

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 KHz. The video bandwidth is set to 300 KHz.

Measurements are made over the 9 kHz to 26.5GHz range with the transmitter set to the lowest, middle, and highest channels

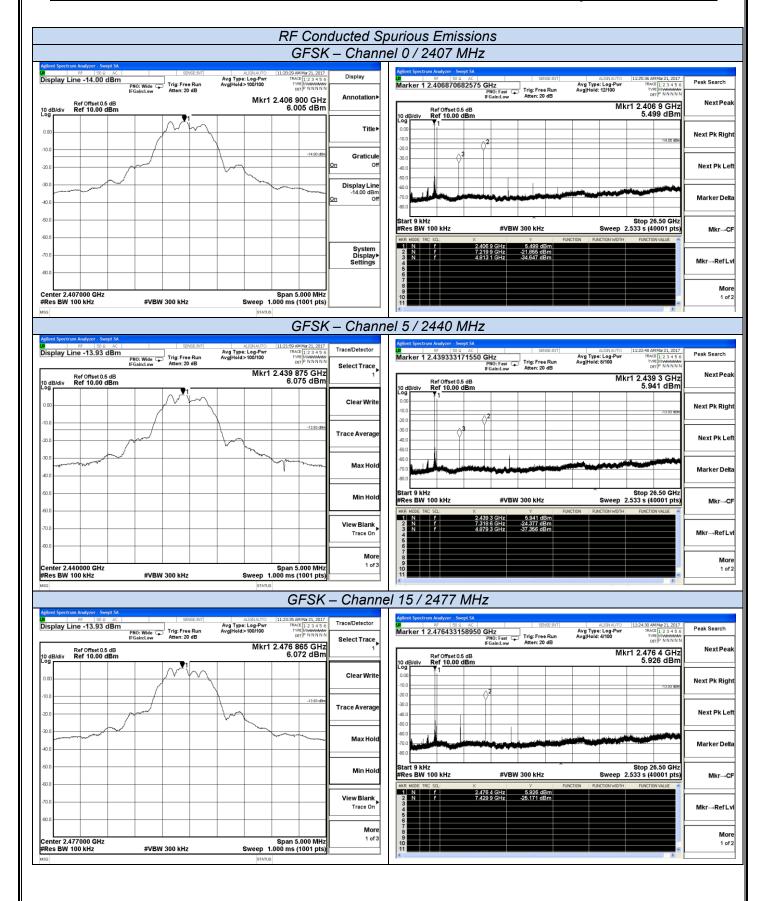
6.5.4 Test Results of Conducted Spurious Emissions

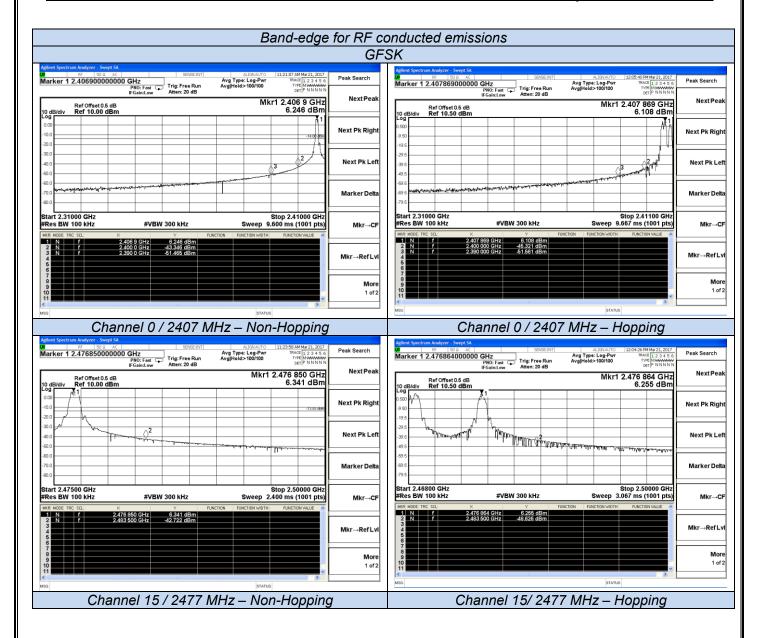
The test data refer to the following page.

Test Mode	Channel	Frequency (MHz)	Spurious RF Conducted Emission (dBc)	Limits (dBc)	Verdict
	0	2407	<-20		
GFSK	8	2440	<-20	-20	PASS
	15	2477	<-20		

Remark:

- 1. Test results including cable loss;
- 2. please refer to following plots;





6.6 Restricted Band Emission Limit

6.6.1. 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	322-335.4	3600-4400	(\2\)
13.36-13.41			

\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)	Measuremen t 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

6.6.2. Measuring Instruments and Setting

Please refer to section 6 of 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

6.6.3. 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.
- --- 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 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 (± 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 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 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:

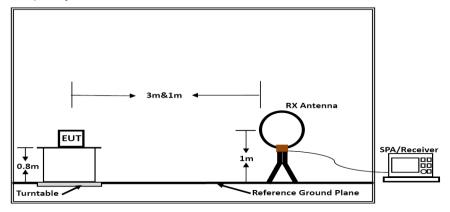
- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation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

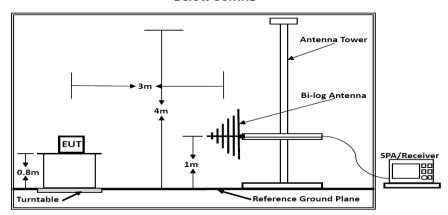
--- The antenna is moved spherical over the EUT in different polarizations of the antenna.

- --- 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.

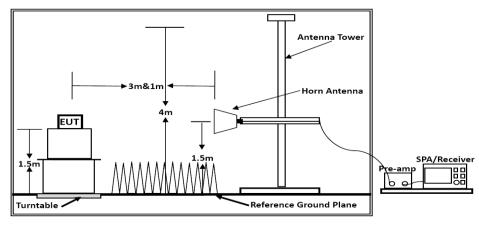
6.6.4. Test Setup Layout



Below 30MHz



Below 1GHz



Above 1GHz

Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1.5m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1.5m]) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

6.6.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

6.6.6. Results of Radiated Emissions (9 kHz~30MHz)

Temperature	24.7 ℃	Humidity	56%
Test Engineer	Kyle Yin	Configurations	2.4G

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

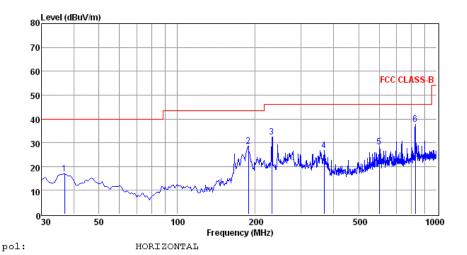
Distance extrapolation factor = 40 log (specific distance / test distance) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor.

PASS.

Only record the worst test result in this report.

The test data please refer to following page.

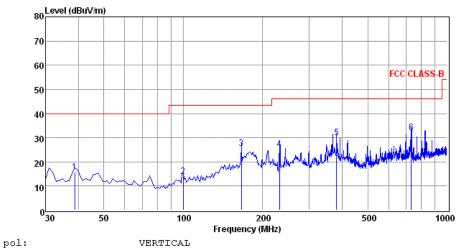
Below 1GHz (Low Channel)



	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dВ	
1	36.79	3.63	0.41	12.76	16.80	40.00	-23.20	QP
2	188.11	17.23	0.98	10.39	28.60	43.50	-14.90	QP
3	231.76	19.83	0.98	11.72	32.53	46.00	-13.47	QP
4	368.53	11.08	1.22	14.50	26.80	46.00	-19.20	QP
5	600.36	8.32	1.43	18.45	28.20	46.00	-17.80	QP
6	826.37	15.78	1.80	20.33	37.91	46.00	-8.09	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



	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dB	
1	38.73	2.01	0.38	13.25	15.64	40.00	-24.36	QP
2	99.84	0.09	0.60	13.15	13.84	43.50	-29.66	QP
3	165.80	16.02	0.77	8.84	25.63	43.50	-17.87	QP
4	231.76	12.45	0.98	11.72	25.15	46.00	-20.85	QP
5	381.14	14.17	1.18	14.62	29.97	46.00	-16.03	QP
6	732.28	11.30	1.62	19.21	32.13	46.00	-13.87	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

Above 1GHz

The worst test result for GFSK, 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	54.84	33.06	35.04	3.94	56.80	74.00	-17.20	Peak	Horizontal
4814.00	39.68	33.06	35.04	3.94	41.64	54.00	-12.36	Average	Horizontal
12035.00	53.03	33.16	35.06	3.96	55.09	74.00	-18.91	Peak	Horizontal
12035.00	41.75	33.16	35.06	3.96	43.81	54.00	-10.19	Average	Horizontal
4814.00	58.87	33.06	35.04	3.94	60.83	74.00	-13.17	Peak	Vertical
4814.00	42.03	33.06	35.04	3.94	43.99	54.00	-10.01	Average	Vertical
12035.00	55.03	33.16	35.06	3.96	57.09	74.00	-16.91	Peak	Vertical
12035.00	40.90	33.16	35.06	3.96	42.96	54.00	-11.04	Average	Vertical

The worst test result for GFSK, Channel 5 / 2440 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.
4880.00	54.78	33.16	35.15	3.96	56.75	74.00	-17.25	Peak	Horizontal
4880.00	43.77	33.16	35.15	3.96	45.74	54.00	-8.26	Average	Horizontal
12200.00	53.19	33.26	35.17	3.98	55.26	74.00	-18.74	Peak	Horizontal
12200.00	40.68	33.26	35.17	3.98	42.75	54.00	-11.25	Average	Horizontal
4880.00	58.90	33.16	35.15	3.96	60.87	74.00	-13.13	Peak	Vertical
4880.00	41.93	33.16	35.15	3.96	43.90	54.00	-10.10	Average	Vertical
12200.00	54.83	33.26	35.17	3.98	56.90	74.00	-17.10	Peak	Vertical
12200.00	43.71	33.26	35.17	3.98	45.78	54.00	-8.22	Average	Vertical

The worst test result for GFSK, Channel 15 / 2477 MHz

Freq. MHz	Reading dBuv	Ant. Fac dB/m	Pre. Fac dB	Cab. Los dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4954.00	54.98	33.26	35.14	3.98	57.08	74.00	-16.92	Peak	Horizontal
4954.00	42.73	33.26	35.14	3.98	44.83	54.00	-9.17	Average	Horizontal
12385.00	51.04	33.36	35.16	4.00	53.24	74.00	-20.76	Peak	Horizontal
12385.00	42.04	33.36	35.16	4.00	44.24	54.00	-9.76	Average	Horizontal
4954.00	58.77	33.26	35.14	3.98	60.87	74.00	-13.13	Peak	Vertical
4954.00	42.11	33.26	35.14	3.98	44.21	54.00	-9.79	Average	Vertical
12385.00	57.01	33.36	35.16	4.00	59.21	74.00	-14.79	Peak	Vertical
12385.00	42.64	33.36	35.16	4.00	44.84	54.00	-9.16	Average	Vertical

Notes:

- 1). Measuring frequencies from 9k~10th harmonic (ex. 26GHz), No emission found between lowest internal used/generated frequency to 30 MHz.
- 2). Radiated emissions measured in frequency range from 9k~10th harmonic (ex. 26GHz) were made with an instrument using Peak detector mode.
- 3). 18~25GHz at least have 20dB margin. No recording in the test report.

6.7. AC Power line conducted emissions

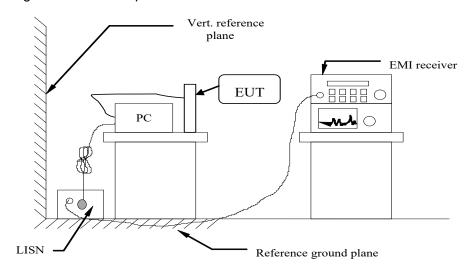
6.7.1 Standard Applicable

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 is 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

6.7.2 Block Diagram of Test Setup



6.7.3 Test Results

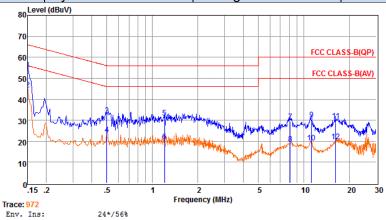
PASS.

The test data please refer to following page.

Pol:

Test Results for AC 120V/60Hz @ GFSK (worst case)

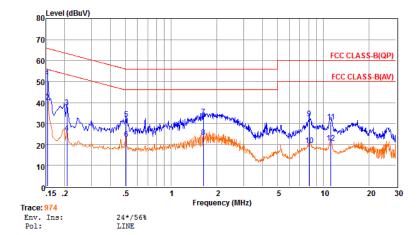
Temperature	23.5℃	Humidity	54.2%
Test Engineer	Kyle Yin	Configurations	2.4G



	Freq	Reading	LISNFac	CabLos	Aux2Fac	Measur	red Limit	0ver	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB
1	0.15	34.53	9.70	0.02	10.00		66.00	-11.75	QP
2	0.15	24.96	9.70	0.02	10.00	44.68	55.99	-11.31	Average
3	0.50	12.71	9.62	0.04	10.00	32.37	56.00	-23.63	QP
4	0.50	3.45	9.62	0.04	10.00	23.11	46.00	-22.89	Average
5	1.20	11.50	9.63	0.05	10.00	31.18	56.00	-24.82	QP
6	1.20	0.11	9.63	0.05	10.00	19.79	46.00	-26.21	Average
7	8.15	9.72	9.70	0.07	10.00	29.49	60.00	-30.51	QP
8	8.15	-1.01	9.70	0.07	10.00	18.76	50.00	-31.24	Average
9	11.20	10.61	9.73	0.09	10.00	30.43	60.00	-29.57	QP
10	11.20	-0.44	9.73	0.09	10.00	19.38	50.00	-30.62	Average
11	16.23	10.02	9.75	0.11	10.00	29.88	60.00	-30.12	QP
12	16.23	0.16	9.75	0.11	10.00	20.02	50.00	-29.98	Average

NEUTRAL

Remarks: 1. Measured = Reading +Cable Loss +Aux2 Fac. 2. The emission levels that are 20dB below the official limit are not reported.

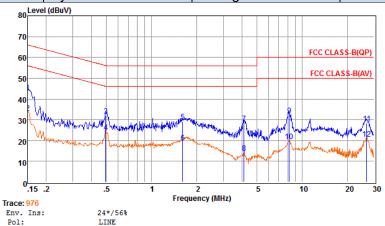


	Freq	Reading	LISNFac	CabLos	Aux2Fac	: Measu	red Limit	0ver	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB
1	0.15	32.29	9.58	0.02	10.00	51.89	65.78	-13.89	QP
2	0.15	20.60	9.58	0.02	10.00	40.20	55.77	-15.57	Average
3	0.21	18.02	9.63	0.03	10.00	37.68	63.36	-25.68	QP
4	0.21	5.89	9.63	0.03	10.00	25.55	53.36	-27.81	Average
5	0.50	12.44	9.62	0.04	10.00	32.10	56.00	-23.90	QP
6	0.50	3.02	9.62	0.04	10.00	22.68	46.00	-23.32	Average
7	1.63	13.53	9.64	0.05	10.00	33.22	56.00	-22.78	QP
8	1.63	3.68	9.64	0.05	10.00	23.37	46.00	-22.63	Average
9	8.11	12.74	9.68	0.07	10.00	32.49	60.00	-27.51	QP
10	8.11	0.01	9.68	0.07	10.00	19.76	50.00	-30.24	Average
11	11.20	11.11	9.70	0.09	10.00	30.90	60.00	-29.10	QP
12	11.20	1.13	9.70	0.09	10.00	20.92	50.00	-29.08	Average

Remarks: 1. Measured = Reading +Cable Loss +Aux2 Fac.
2. The emission levels that are 20dB below the official limit are not reported.

Test Results for AC 240V/50Hz @ GFSK (worst case)

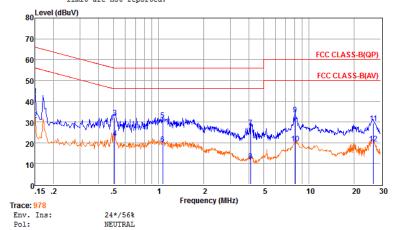
Temperature	23.5℃	Humidity	54.2%
Test Engineer	Kyle Yin	Configurations	2.4G



	Freq	Reading	LISNFac	CabLos	Aux2Fac	: Measu:	red Limit	Over	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB
1	0.15	23.48	9.57	0.02	10.00	43.07	66.00	-22.93	QP
2	0.15	13.76	9.57	0.02	10.00	33.35	55.99	-22.64	Average
3	0.50	12.17	9.62	0.04	10.00	31.83	56.05	-24.22	QP
4	0.50	4.30	9.62	0.04	10.00	23.96	46.05	-22.09	Average
5	1.61	9.35	9.64	0.05	10.00	29.04	56.00	-26.96	QP
6	1.61	-0.60	9.64	0.05	10.00	19.09	46.00	-26.91	Average
7	4.11	8.52	9.65	0.06	10.00	28.23	56.00	-27.77	QP
8	4.11	-5.82	9.65	0.06	10.00	13.89	46.00	-32.11	Average
9	8.19	12.31	9.68	0.07	10.00	32.06	60.00	-27.94	QP
10	8.19	0.02	9.68	0.07	10.00	19.77	50.00	-30.23	Average
11	26.84	8.45	9.71	0.13	10.00	28.29	60.00	-31.71	QP
12	26 04	1 07	0.71	0.12	10 00	20 01	E0 00	-20 00	Arromago

Remarks: 1. Measured = Reading +Cable Loss +Aux2 Fac.
2. The emission levels that are 20dB below the official

limit are not reported.



	Freq	Reading	LISNFac	CabLos	Aux2Fac	: Measu:	red Limit	0ver	Remark
	MHz	dBuV	dB	dB	dB	dB	dBuV	dBuV	dB
1	0.15	22.67	9.70	0.02	10.00	42.39	66.00	-23.61	QP
2	0.15	11.23	9.70	0.02	10.00	30.95	55.99	-25.04	Average
3	0.51	12.32	9.62	0.04	10.00	31.98	56.00	-24.02	QP
4	0.51	2.77	9.62	0.04	10.00	22.43	46.00	-23.57	Average
5	1.07	11.22	9.63	0.05	10.00	30.90	56.00	-25.10	QP
6	1.07	-0.30	9.63	0.05	10.00	19.38	46.00	-26.62	Average
7	4.09	7.78	9.65	0.06	10.00	27.49	56.00	-28.51	QP
В	4.09	-8.47	9.65	0.06	10.00	11.24	46.00	-34.76	Average
9	8.11	13.89	9.70	0.07	10.00	33.66	60.00	-26.34	QP
)	8.11	-0.13	9.70	0.07	10.00	19.64	50.00	-30.36	Average
1	26.84	9.36	9.83	0.13	10.00	29.32	60.00	-30.68	QP
,	26.84	-0.20	9.83	0.13	10.00	19.76	50.00	-30.24	Average

Remarks: 1. Measured = Reading +Cable Loss +Aux2 Fac.
2. The emission levels that are 20dB below the official

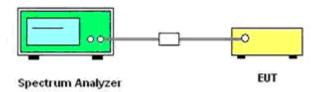
limit are not reported.

6.8. Band-edge measurements for radiated emissions

6.8.1 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)).

6.8.2. Test Setup Layout



6.8.3. Measuring Instruments and Setting

Please refer to section 6 of equipment list in this report. The following table is the setting of Spectrum Analyzer.

6.8.4. Test Procedures

According to KDB 412172 section 1.1 Field Strength Approach (linear terms):

eirp = $p_t x g_t = (E x d)^2/30$

Where:

p_t = transmitter output power in watts,

 g_t = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m,

d = measurement distance in meters (m).

erp = eirp/1.64 = $(E \times d)^2/(30 \times 1.64)$

Where all terms are as previously defined.

- 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 a 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 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)

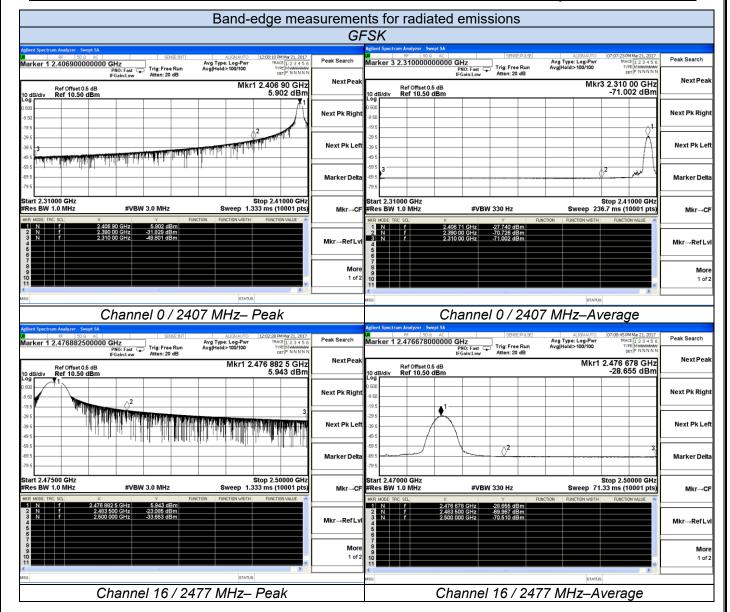
- 8. Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- 9. For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- 10. Compare the resultant electric field strength level to the applicable regulatory limit.
- 11. Perform radiated spurious emission test duress until all measured frequencies were complete.

6.8.5. Test Results

	GFSK – Non-Hopping												
Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)	Verdict						
2310.00	-49.801	0.0	0.0	45.459	Peak	74.00	PASS						
2310.00	-71.002	0.0	0.0	24.258	AV	54.00	PASS						
2390.00	-31.829	0.0	0.0	63.431	Peak	74.00	PASS						
2390.00	-70.726	0.0	0.0	24.534	AV	54.00	PASS						
2483.50	-23.085	0.0	0.0	72.175	Peak	74.00	PASS						
2483.50	-69.967	0.0	0.0	25.293	AV	54.00	PASS						
2500.00	-33.663	0.0	0.0	61.597	Peak	74.00	PASS						
2500.00	-70.510	0.0	0.0	24.750	AV	54.00	PASS						

Remark:

- 1. Measured at difference Packet Type for each mode and recorded worst case for each mode.
- 2. Measured at Hopping and Non-Hopping mode, recorded worst at Non-Hopping mode.
- 3. The other emission levels were very low against the limit.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection.
- 5. Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=330Hz/Sweep time=Auto/Detector=Peak;



6.9. Antenna requirement

6.9.1 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.

6.9.2 Antenna Connected Construction

6.9.2.1. Standard Applicable

According to § 15.203 & RSS-Gen, 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.

6.9.2.2. Antenna Connector Construction

The directional gains of antenna used for transmitting is 0 dBi, and the antenna is an internal antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details.

6.9.2.3. Results: Compliance.

7. TEST SETUP PHOTOGRAPHS

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

8.EXTERNAL AND INTERNAL PHOTOS OF THE EUT

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

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