

## FCC TEST REPORT

For

Enping Xingda Xionghai Electronics Factory

Wireless Microphone Set

Test Model: D-60

Additional Model No.: Please Refer to Page 6

Prepared for : Enping Xingda Xionghai Electronics Factory  
Address : No.6-1, Area B, Private and foreign industrial zone, Enping city,  
Guangdong province, China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.  
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Date of receipt of test sample : September 10, 2020  
Number of tested samples : 2  
Serial number : 200908019A-1, 200908019-2  
Date of Test : September 10, 2020 ~ October 29, 2020  
Date of Report : November 06, 2020

**FCC TEST REPORT**  
**FCC CFR 47 PART 15 C (15.247)****Report Reference No.** ..... : **LCS200908019AEA**

Date of Issue ..... : November 06, 2020

**Testing Laboratory Name** ..... : **Shenzhen LCS Compliance Testing Laboratory Ltd.**Address ..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street,  
Baoan District, Shenzhen, ChinaTesting Location/ Procedure ..... : Full application of Harmonised standards ☒  
Partial application of Harmonised standards ☐  
Other standard testing method ☐**Applicant's Name** ..... : **Enping Xingda Xionghai Electronics Factory**Address ..... : No.6-1, Area B, Private and foreign industrial zone, Enping city,  
Guangdong province, China**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

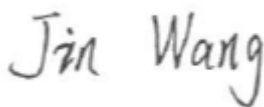
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**EUT Description.** ..... : **Wireless Microphone Set**Trade Mark ..... : FDUCE, at alltone, **SHENGFU**<sup>®</sup>

Test Model ..... : D-60

Ratings ..... : DC 3V by 2\*AA Battery

Result ..... : **Positive****Compiled by:****Supervised by:****Approved by:**

Scent Hu/Administrators

Jin Wang/ Technique principal

Gavin Liang/ Manager

**FCC -- TEST REPORT**

<b>Test Report No. :</b>	<b>LCS200908019AEA</b>	<u>November 06, 2020</u> Date of issue
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Test Model.....	: D-60
EUT.....	: Wireless Microphone Set
<b>Applicant.....</b>	<b>: Enping Xingda Xionghai Electronics Factory</b>
Address.....	: No.6-1, Area B, Private and foreign industrial zone, Enping city, Guangdong province, China
Telephone.....	:
Fax.....	:
<b>Manufacturer.....</b>	<b>: Enping Xingda Xionghai Electronics Factory</b>
Address.....	: No.6-1, Area B, Private and foreign industrial zone, Enping city, Guangdong province, China
Telephone.....	:
Fax.....	:
<b>Factory.....</b>	<b>: Enping Xingda Xionghai Electronics Factory</b>
Address.....	: No.6-1, Area B, Private and foreign industrial zone, Enping city, Guangdong province, China
Telephone.....	:
Fax.....	:

<b>Test Result</b>	<b>Positive</b>
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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	November 06, 2020	Initial Issue	Gavin Liang

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## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

EUT	: Wireless Microphone Set
Test Model	: D-60
Additional Model	: W-19II, D-60, T-7, YB-02, W-17, CD-02, T-1, W-15
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested.
Power Supply	: DC 3V by 2*AA Battery
Hardware Version	: V1.0
Software Version	: V1.0
900MHz	:
Frequency Range	: 903.5MHz-923.5MHz
Channel Number	: 20 channels for GFSK(903.5MHz-913MHz) 20 channels for GFSK(914MHz-923.5MHz)
Modulation Type	: GFSK
Antenna Description	: Internal Antenna, 0dBi(Max.)

## 1.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
--	--	--	--	SDOC

## 1.3. External I/O Cable

I/O Port Description	Quantity	Cable
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## 1.4. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

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
Radiation Uncertainty	:	9KHz~30MHz	±3.10dB	(1)
		30MHz~200MHz	±2.96dB	(1)
		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 9 KHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be Low Channel.

### 1.8. Frequency of Channels

#### GFSK(903.5MHz-913MHz):

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	903.5	11	908.5
02	904	12	909
03	904.5	13	909.5
04	905	14	910
05	905.5	15	910.5
06	906	16	911
07	906.5	17	911.5
08	907	18	912
09	907.5	19	912.5
10	908	20	913

#### GFSK(914MHz-923.5MHz):

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	914	11	919
02	914.5	12	919.5
03	915	13	920
04	915.5	14	920.5
05	916	15	921
06	916.5	16	921.5
07	917	17	922
08	917.5	18	922.5
09	918	19	923
10	918.5	20	923.5



## 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 normal operating mode for Hopping Numbers and Dwell Time test and a continuous transmits mode for other tests.

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 directly placed on the ground. 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

### 2.4. Test Sample

The application provides 2 samples to meet requirement;

Sample Number	Description
Sample 1	Engineer sample – continuous transmit
Sample 2	Normal sample – Intermittent transmit

### 3. SYSTEM TEST CONFIGURATION

#### 3.1. Justification

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

#### 3.2. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software (RF test tool) provided by application.

#### 3.3. Special Accessories

No.	Equipment	Manufacturer	Model No.	Serial No.	Length	shielded/ unshielded	Notes
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#### 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	Test Sample	Result	Remark
/	On Time and Duty Cycle	Sample 1	Compliant	Note 1
§15.247(b)	Maximum Conducted Output Power	Sample 1	Compliant	Note 1
§15.247(e)	Power Spectral Density	Sample 1	Compliant	Note 1
§15.247(a)(2)	6dB Bandwidth	Sample 1	Compliant	Note 1
§2.1049	99% Occupied Bandwidth	Sample 1	Compliant	Note 1
§15.209, §15.205	Conducted Spurious Emissions and Band Edges Test	Sample 1	Compliant	Note 1
§15.209, §15.247(d)	Radiated Spurious Emissions	Sample 1 Sample 2	Compliant	Note 1
§15.205	Emissions at Restricted Band	Sample 1	Compliant	Note 1
§15.207(a)	AC Conducted Emissions	Sample 2	Compliant	Note 3
§15.203	Antenna Requirements	Sample 1	Compliant	Note 1
§15.247(i)§2.1093	RF Exposure	Sample 1	Compliant	Note 2

**Remark:**

1. Note 1 – Test results inside test report;
2. Note 2 – Test results in other test report (RF Exposure Evaluation);
3. Note 3 – Not Applicable!!!

## 5. TEST RESULT

### 5.1. On Time and Duty Cycle

#### 5.1.1. Standard Applicable

None; for reporting purpose only.

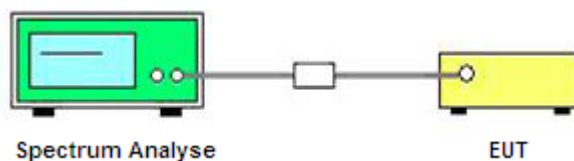
#### 5.1.2. Measuring Instruments and Setting

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=5ms;
3. Detector = peak;
4. Trace mode = Single hold.

#### 5.1.4. Test Setup Layout



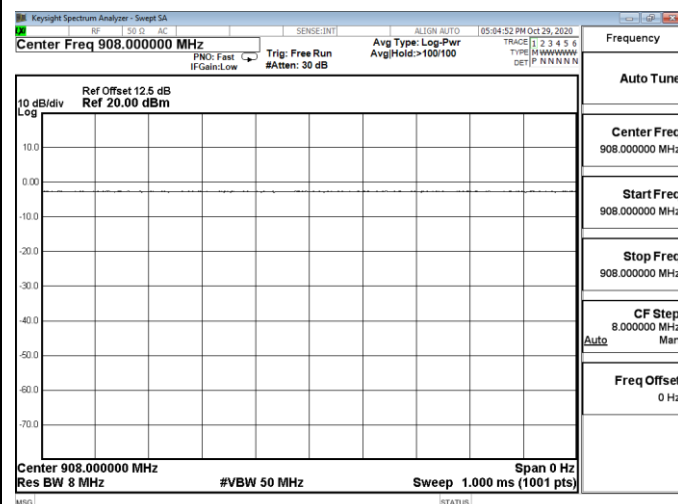
#### 5.1.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

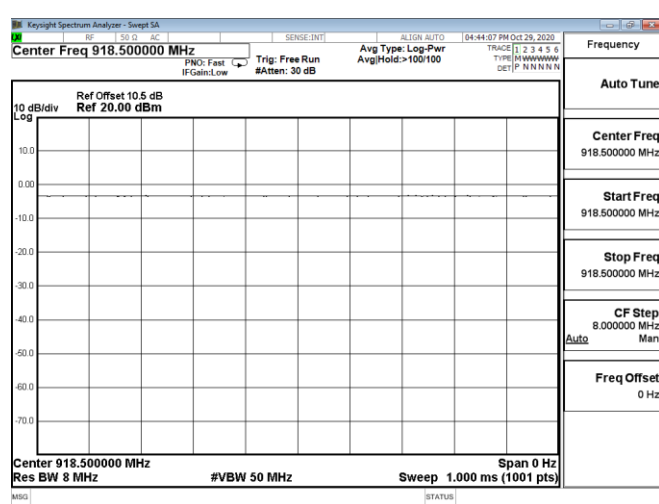
#### 5.1.6. Test result

Mode	On Time B (ms)	Period (ms)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (KHz)
GFSK (903.5-913)MHz	5.0	5.0	1	100	0	0.01
GFSK (914-923.5)MHz	5.0	5.0	1	100	0	0.01

## On Time and Duty Cycle



GFSK (903.5-913)MHz Channel 10 / 908 MHz



GFSK (914-923.5)MHz Channel 10 / 918.5 MHz

## 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

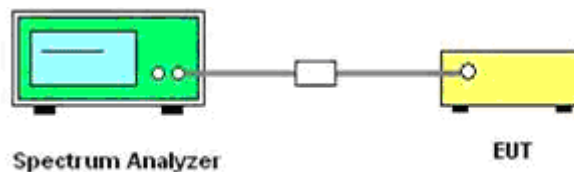
The transmitter output (antenna port) was connected to the spectrum analyzer.

According to KDB558074 D01 DTS Measurement Guidance 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  $\geq$  DTS bandwidth.
- b) Set VBW  $\geq 3 \times$  RBW.
- c) Set span  $\geq 3 \times$  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

GFSK (903.5-913)MHz				
Channel	Frequency (MHz)	Measured Maximum Peak Power (dBm)	Limits (dBm)	Verdict
1	903.5	-2.811	30	PASS
10	908	-2.845		
20	913	-2.704		

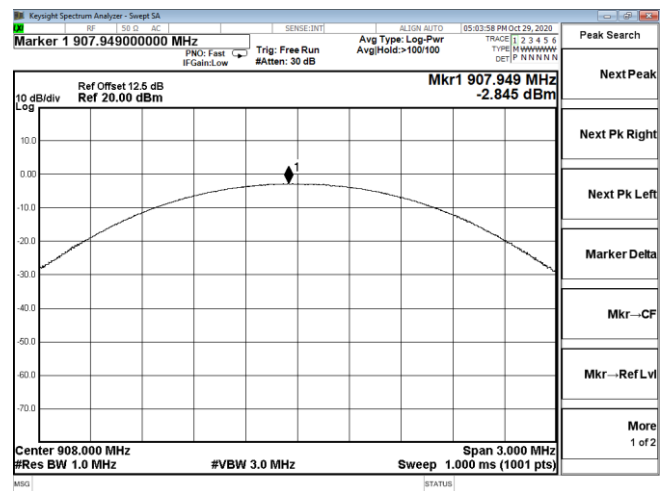
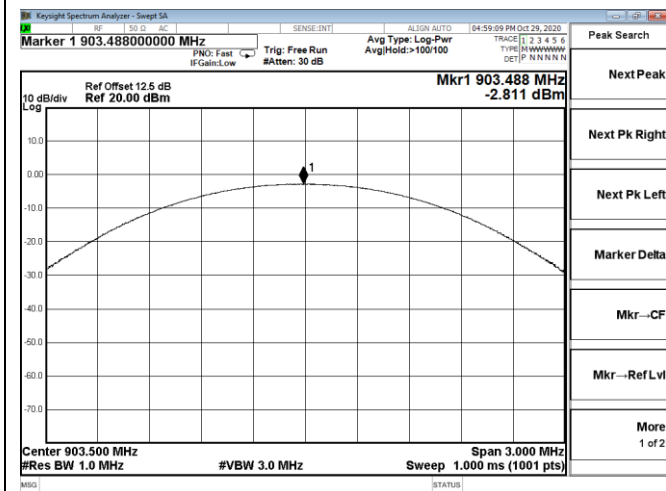
GFSK (914-923.5)MHz				
Channel	Frequency (MHz)	Measured Maximum Peak Power (dBm)	Limits (dBm)	Verdict
1	914	-3.566	30	PASS
10	918.5	-3.467		
20	923.5	-3.394		

*Remark:*

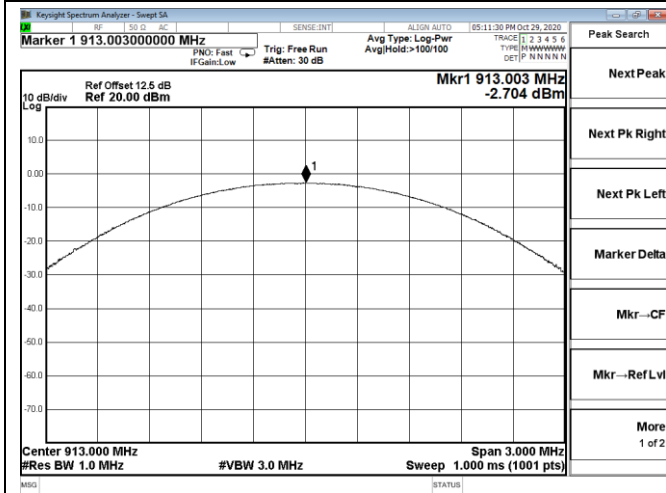
- 1. Test results including cable loss;*
- 2. Please refer to following plots;*

## GFSK (903.5-913)MHz

## Maximum Peak Output Power



## Channel 1 / 903.5 MHz



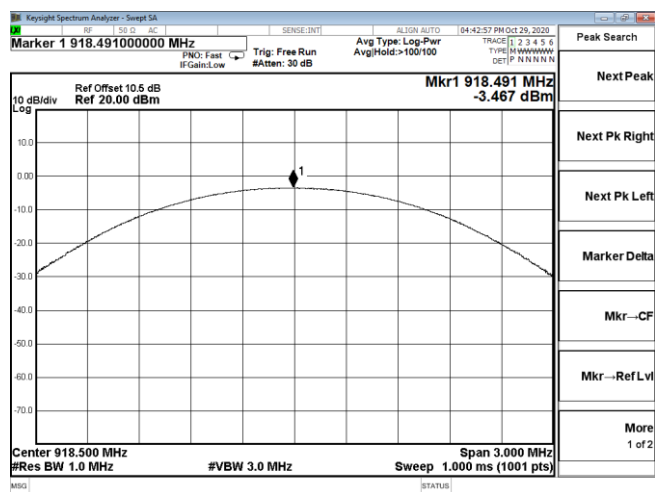
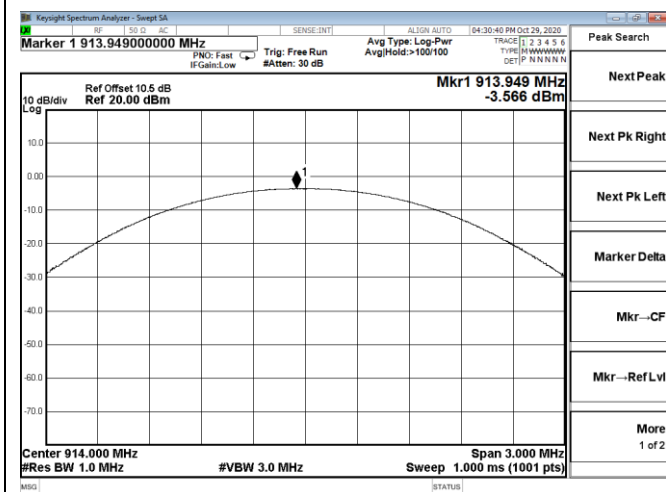
## Channel 10 / 908 MHz

## Channel 20 / 913 MHz

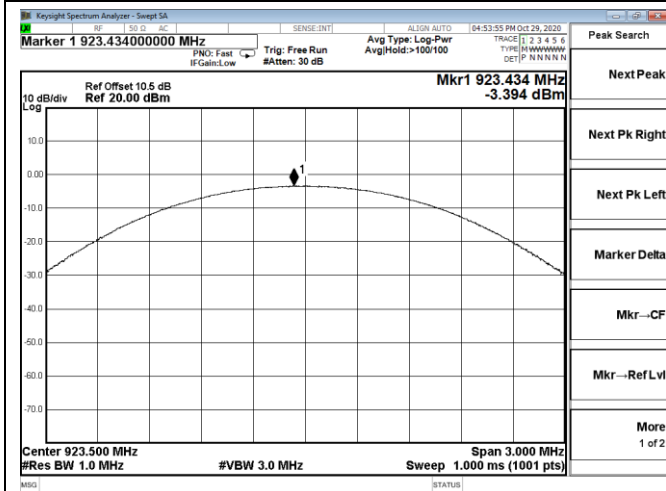


## GFSK (914-923.5)MHz

## Maximum Peak Output Power



## Channel 1 / 914 MHz



## Channel 20 / 923.5 MHz

## Channel 10 / 918.5MHz

### 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.

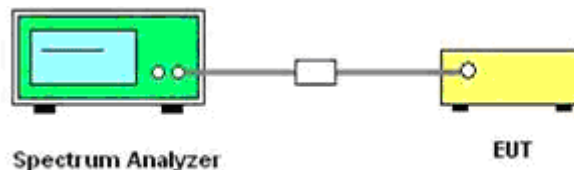
#### 5.3.2. Measuring Instruments and Setting

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  $\geq 3 \times$  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.
9. 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 must be 8 dBm.

#### 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

GFSK (903.5-913)MHz				
Channel	Frequency (MHz)	Measured Peak Power Spectral Density (dBm/3KHz)	Limits (dBm/3KHz)	Verdict
1	903.5	-13.860	8	PASS
10	908	-13.449		
20	913	-15.104		

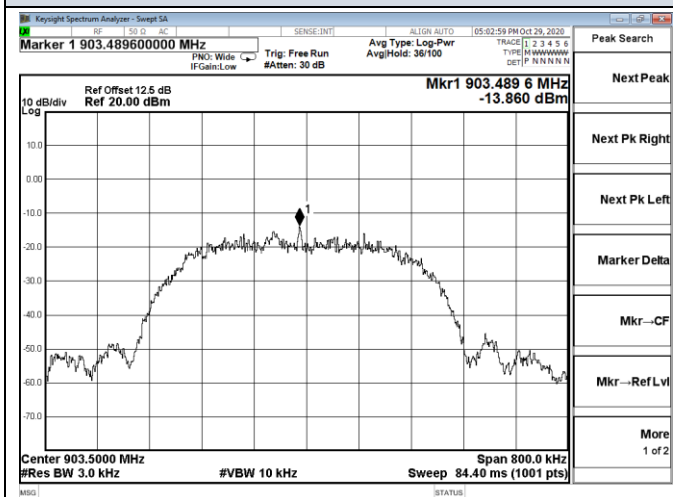
GFSK (914-923.5)MHz				
Channel	Frequency (MHz)	Measured Peak Power Spectral Density (dBm/3KHz)	Limits (dBm/3KHz)	Verdict
1	914	-14.455	8	PASS
10	918.5	-14.911		
20	923.5	-16.281		

*Remark:*

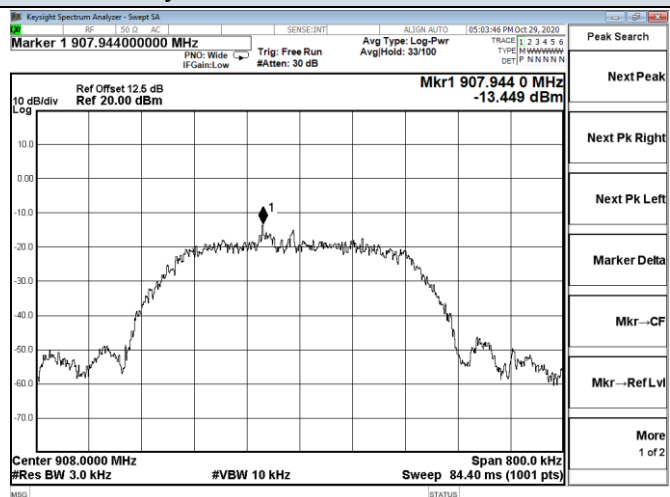
1. Test results including cable loss;
2. Please refer to following plots;

## GFSK (903.5-913)MHz

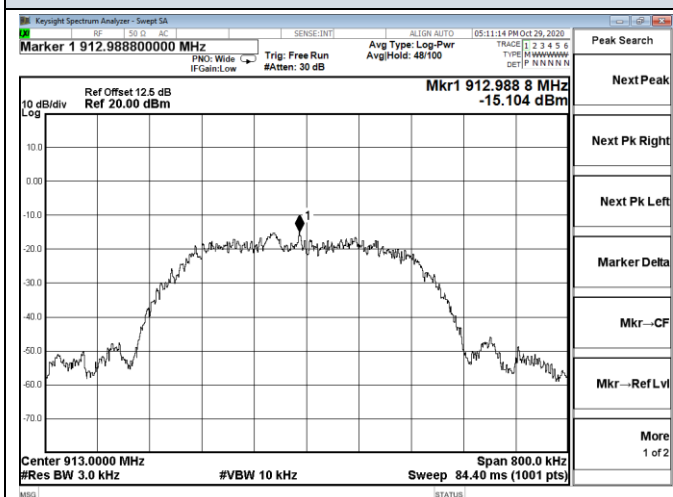
## Peak Power Spectral Density



Channel 1 / 903.5 MHz



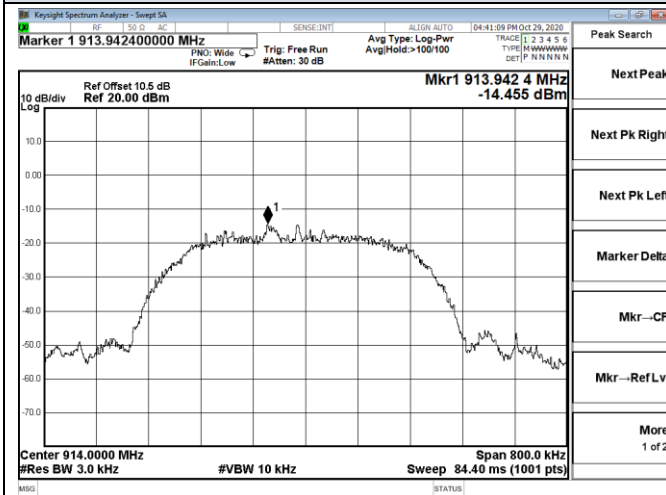
Channel 10 / 908MHz



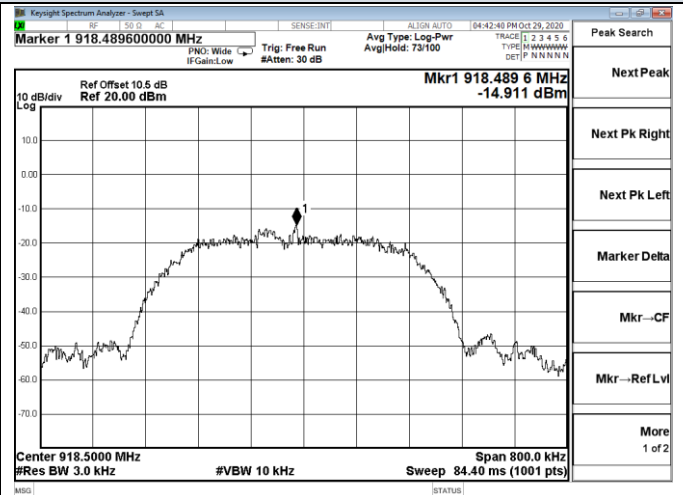
Channel 20 / 913 MHz

## GFSK (914-923.5)MHz

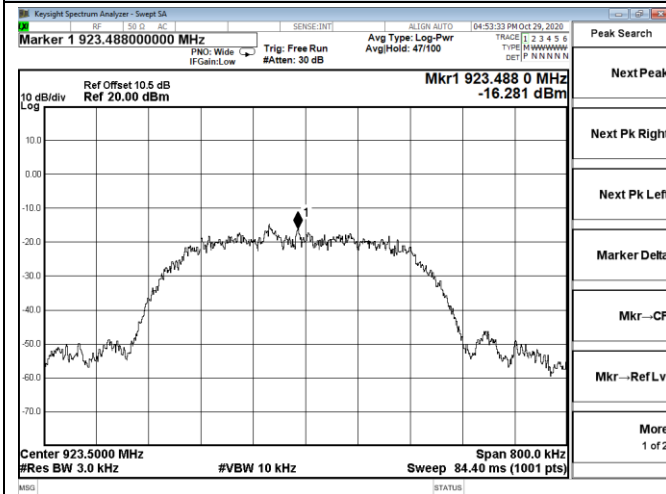
## Peak Power Spectral Density



## Channel 1 / 914MHz



## Channel 10 / 918.5MHz



## Channel 20 / 923.5MHz

## 5.4. 6 dB and 99% 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

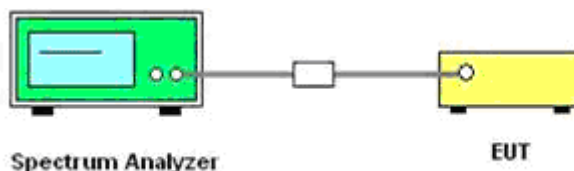
Please refer to equipment list in this report. The following table is the setting of the Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> RBW
Detector	Peak
Trace	Max Hold
Sweep Time	100ms

### 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.
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 and 99% Spectrum Bandwidth

GFSK (903.5-913)MHz					
Channel	Frequency (MHz)	6dB Bandwidth (KHz)	99% Bandwidth (KHz)	Limits (KHz)	Verdict
1	903.5	578.90	689.50	≥500	PASS
10	908	578.20	688.90		
20	913	577.50	690.84		

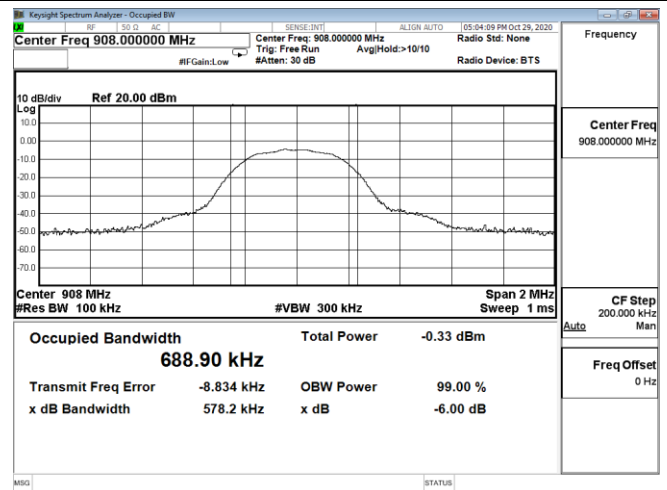
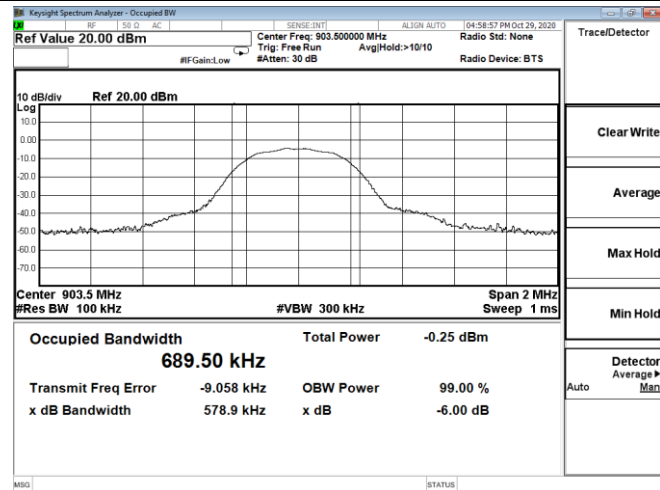
GFSK (914-923.5)MHz					
Channel	Frequency (MHz)	6dB Bandwidth (KHz)	99% Bandwidth (KHz)	Limits (KHz)	Verdict
1	914	581.50	693.72	≥500	PASS
10	918.5	583.50	695.62		
20	923.5	580.10	692.14		

*Remark:*

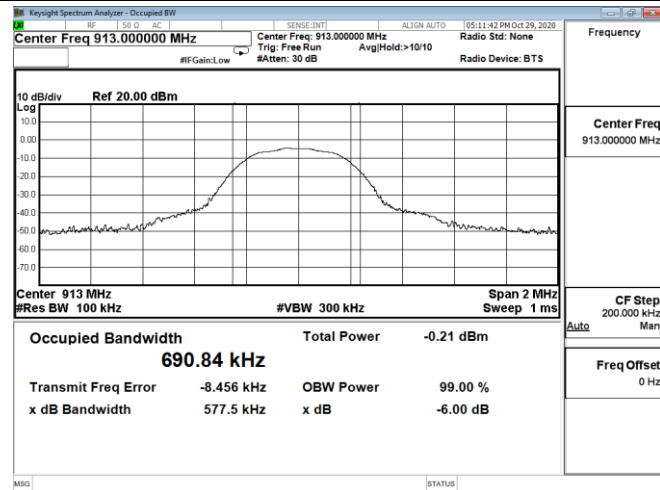
1. Test results including cable loss;
2. Please refer to following plots;

## GFSK (903.5-913)MHz

## 6dB and 99% Bandwidth



## Channel 1 / 903.5 MHz



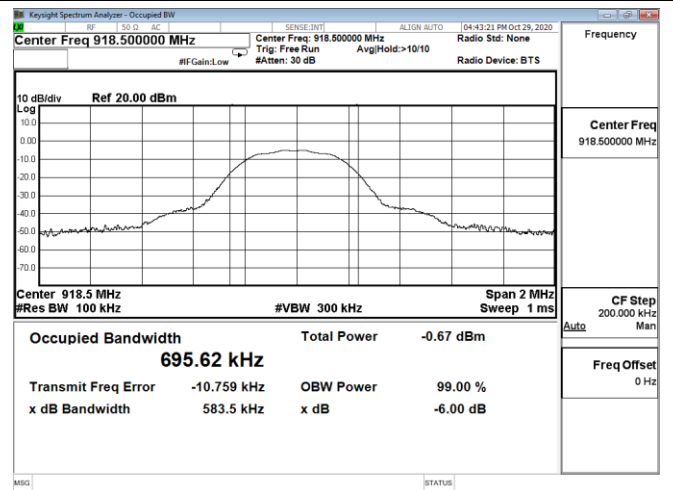
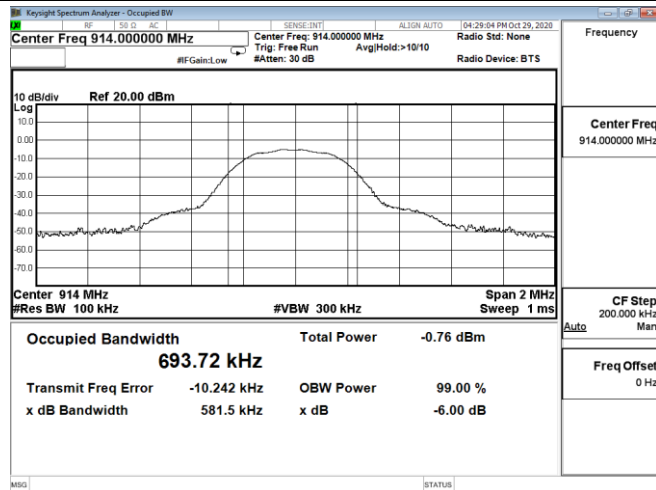
## Channel 10 / 908MHz

## Channel 20 / 913 MHz

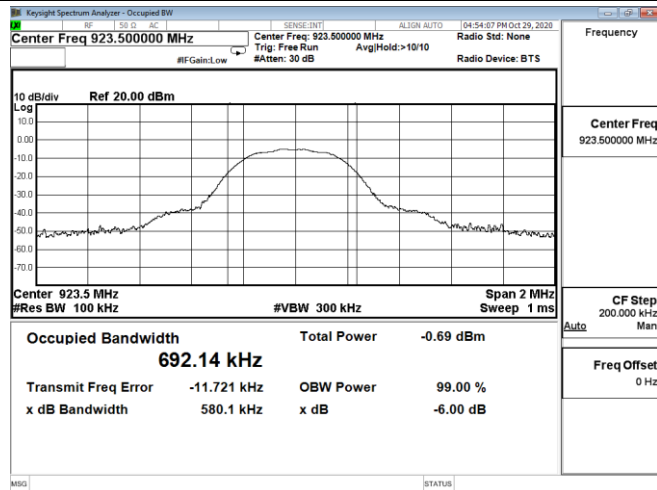


## GFSK (914-923.5)MHz

## 6dB and 99% Bandwidth



## Channel 1 / 914 MHz



## Channel 10 / 918.5MHz

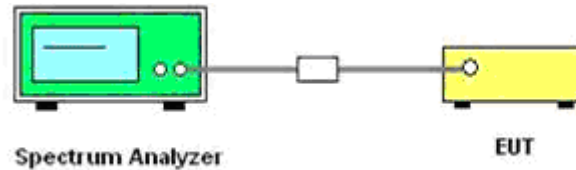
## Channel 20 / 923.5MHz

## 5.5. Conducted Spurious Emissions and Band Edges Test

### 5.5.1 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.

### 5.5.2 Block Diagram of Test Setup



### 5.5.3 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.

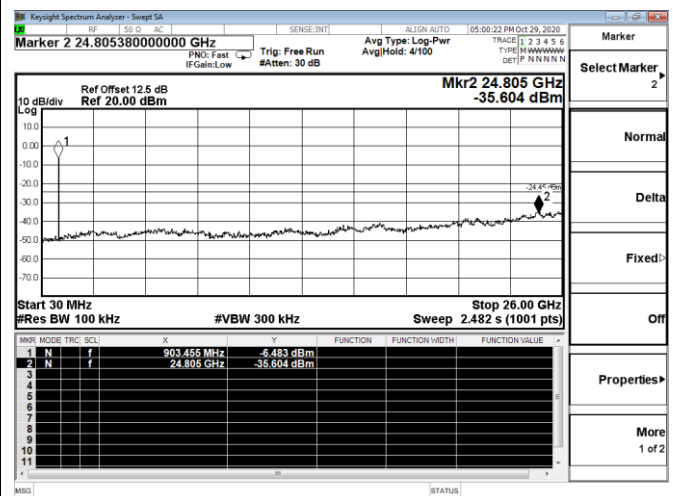
The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 KHz. The video bandwidth is set to 300 KHz.

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

### 5.5.4 Test Results of Conducted Spurious Emissions

PASS

## Channel 1 / 903.5 MHz



30 MHz – 26 GHz

Keysight Spectrum Analyzer - Sweep SA

Marker 2 24.701500000000 GHz

Ref Offset 12.5 dB  
Ref 20.00 dBm

Log

10 dB/div

24.702 GHz  
-34.347 dBm

Start 30 MHz  
#Res BW 100 kHz

Stop 26.00 GHz  
Sweep 2.482 s (1001 pts)

NRX MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE

NRX	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f	f	908 MHz	-6.793 dBm			
2	N	f	f	24.702 GHz	-34.347 dBm			

Properties

More 1 of 2

30 MHz – 26 GHz

Keysight Spectrum Analyzer - Sweep SA

Marker 2 21.714950000000 GHz

Ref Offset 12.5 dB  
Ref 20.00 dBm

Trig: Free Run  
#Att: 30 dB

Avg Type: Log-Per  
Avg/Hold: 3/100

65:58:33 PM Oct 20, 2020

TRACE 1 1 2 3 4 5 6  
TYPE: M N W W W W W  
DEF: N N N N N N

Marker 2 21.715 GHz  
-38.920 dBm

Log

10 dB/div

Start 30 MHz  
#Res BW 100 kHz

Stop 26.00 GHz  
Sweep 2.482 s (1001 pts)

1

2

-38.920 dBm

21.715 GHz

21.715 GHz

38.920 dBm

FUNCTION

FUNCTION WIDTH

FUNCTION VALUE

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4

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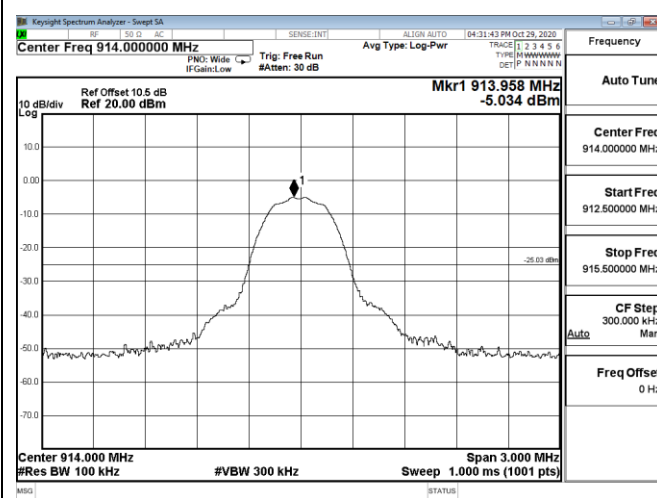
396

30 MHz – 26 GHz

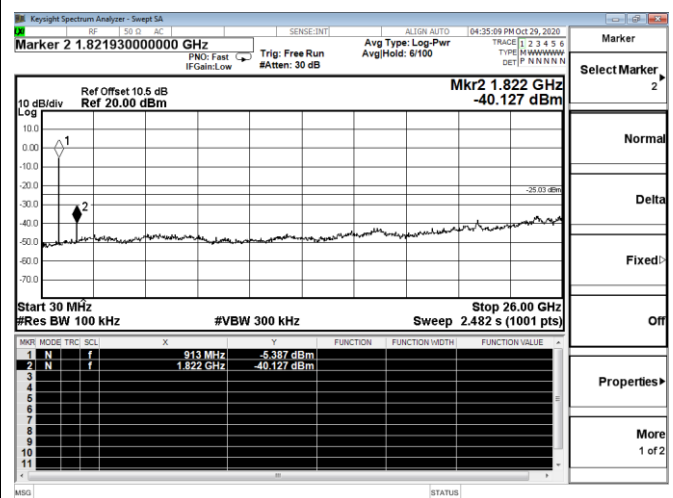
## GFSK (914-923.5)MHz

## RF Conducted Spurious Emissions

## Channel 1 / 914MHz

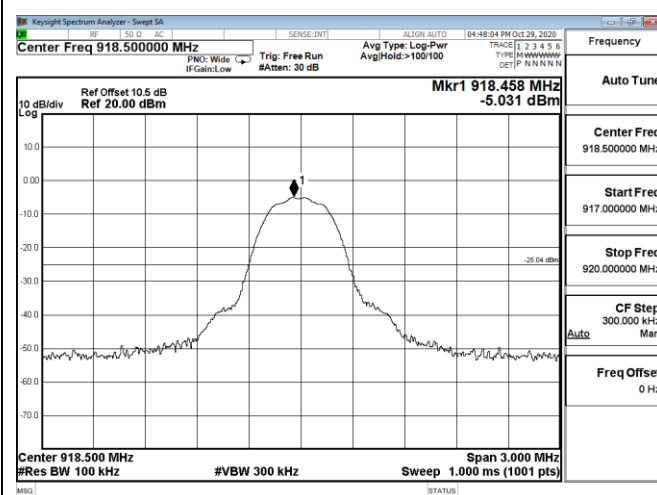


914MHz

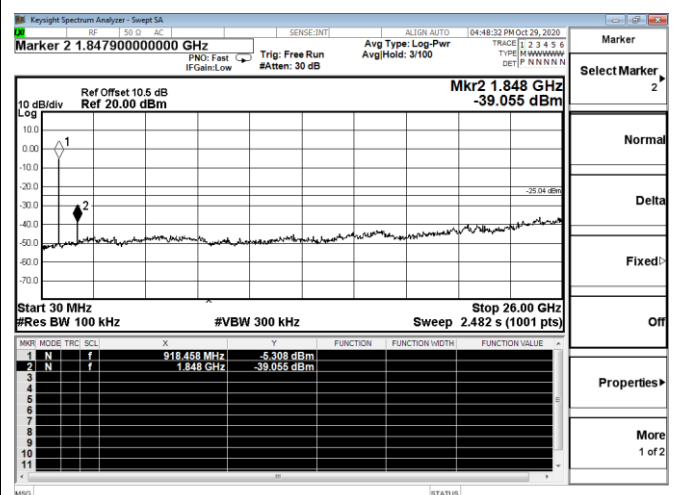


30 MHz – 26 GHz

## Channel 10 / 918.5MHz

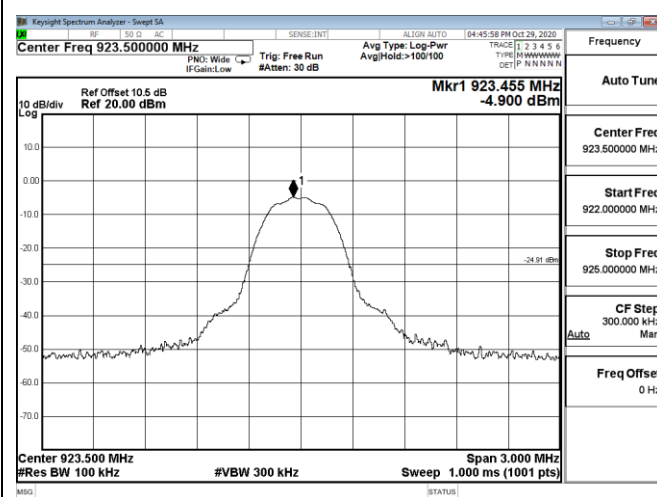


918.5MHz

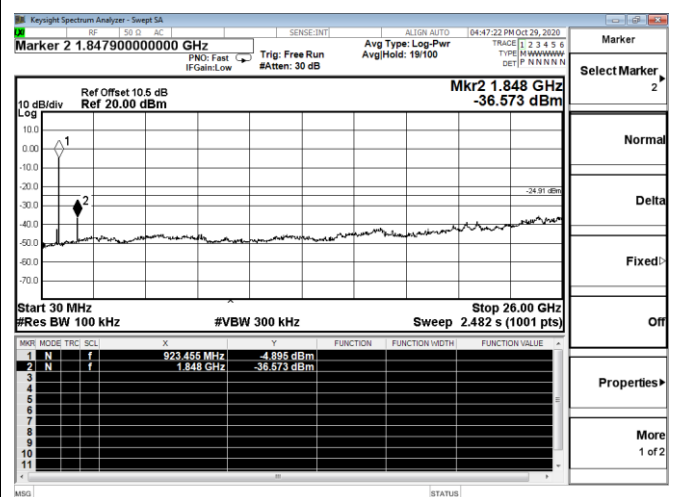


30 MHz – 26 GHz

## Channel 20 / 923.5 MHz



923.5 MHz



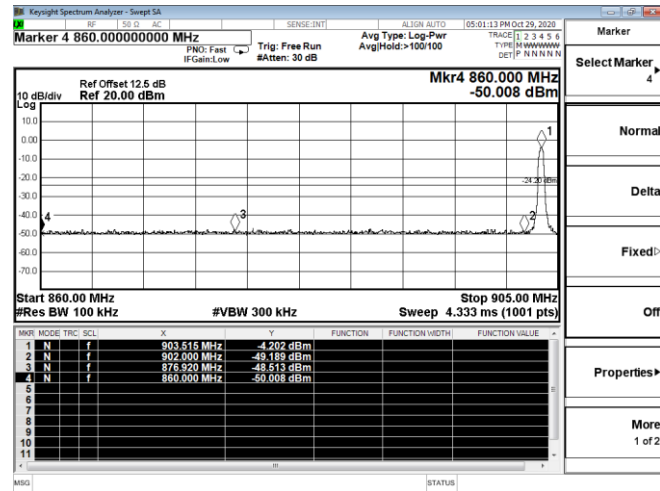
30 MHz – 26 GHz

## GFSK (903.5-913)MHz

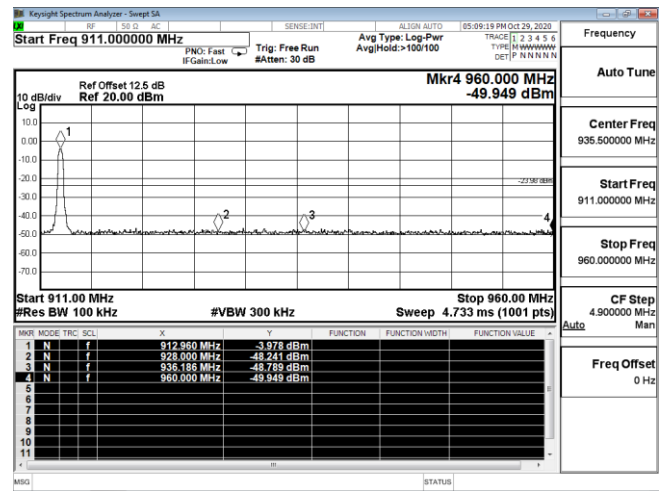
## Band-edge measurements for conducted emissions

## GFSK (903.5-913)MHz

## Restrict-band band-edge measurements



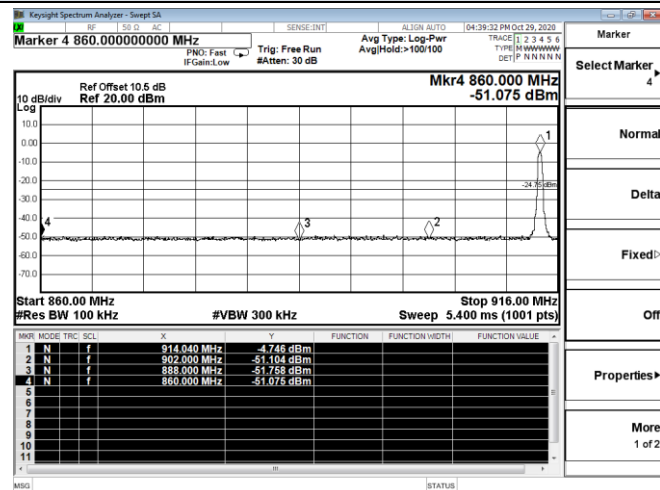
Channel 1 / 903.5 MHz



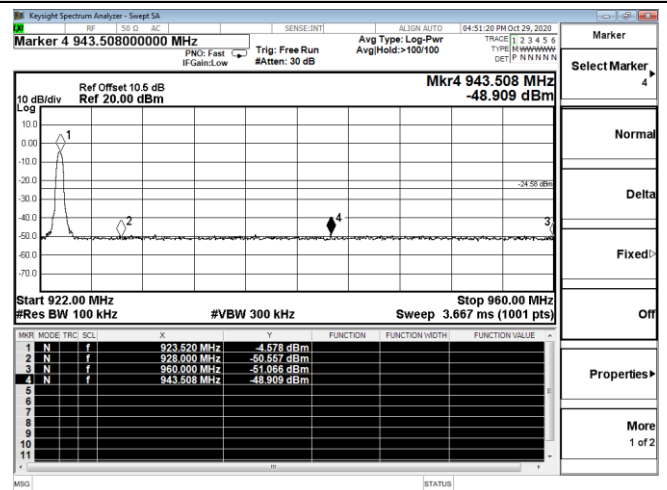
Channel 20 / 913MHz

## GFSK (914-923.5)MHz

## Restrict-band band-edge measurements



Channel 1 / 914 MHz



Channel 20 / 923.5MHz

## 5.6. Radiated Emissions Measurement

### 5.6.1. 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)	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

### 5.6.2. 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 <sup>th</sup> 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

### 5.6.3. 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

##### **Final measurement:**

- 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.

### Final measurement:

- 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 ( $\pm 45^\circ$ ) and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.



### 3) Sequence of testing 1 GHz to 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.

#### Final measurement:

- 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 ( $\pm 45^\circ$ ) 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.

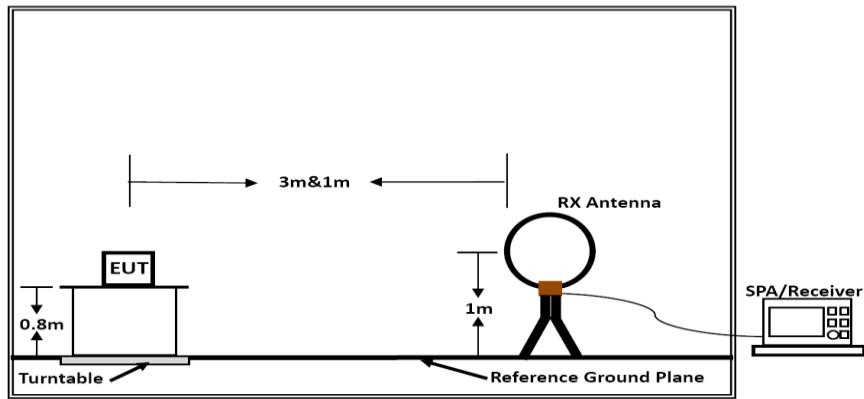
**Premeasurement:**

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

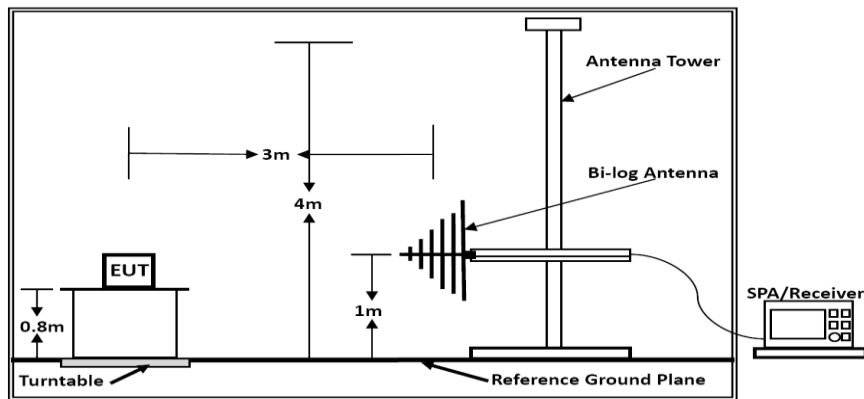
**Final measurement:**

- 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.

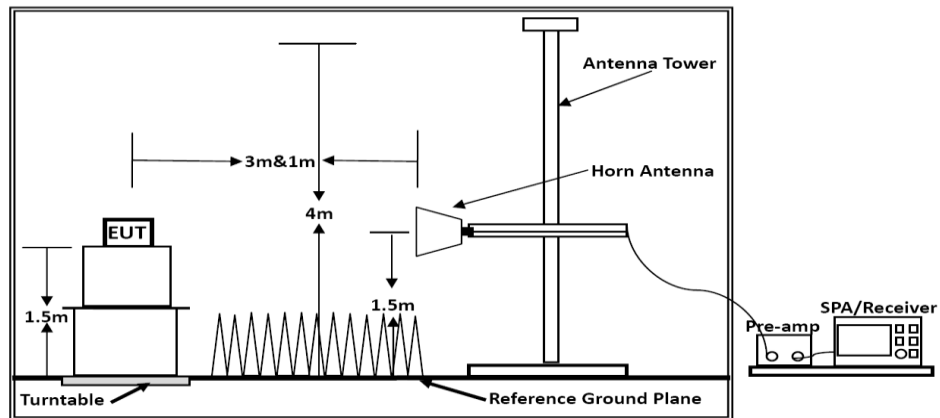
#### 5.6.4. Test Setup Layout



**Below 30MHz**



**Below 1GHz**



**Above 1GHz**

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

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

#### 5.6.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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

Temperature	24.1℃	Humidity	54.2%
Test Engineer	Diamond Lu		

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 =  $40 \log (\text{specific distance} / \text{test distance})$  (dB);

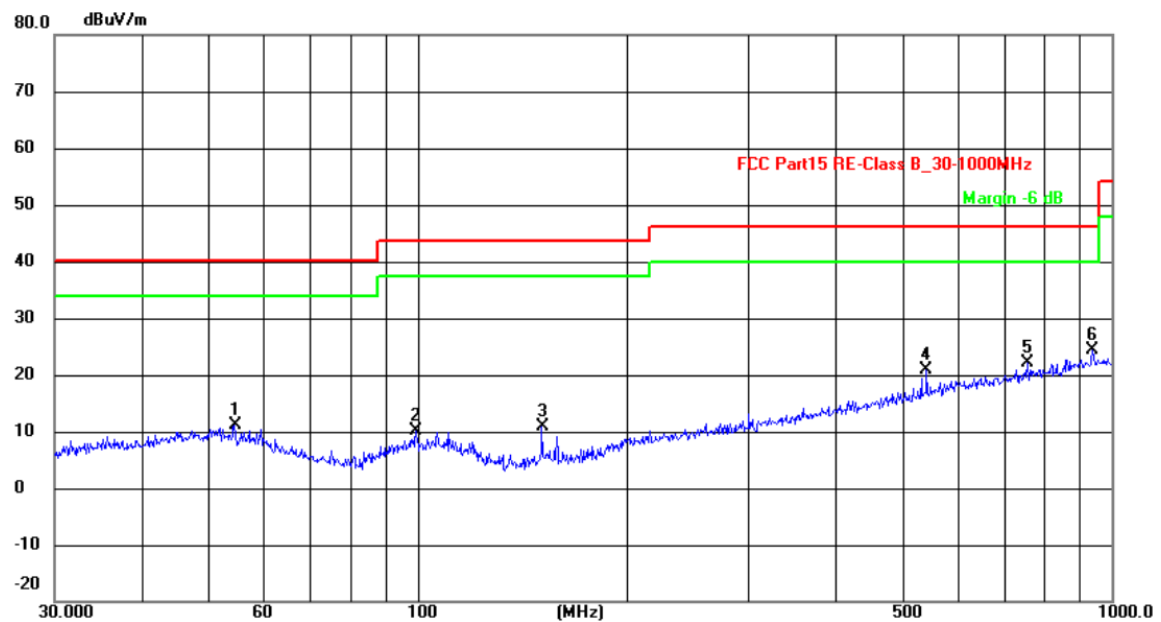
Limit line = specific limits (dBuV) + distance extrapolation factor.

## 5.6.7. Results of Radiated Emissions (30 MHz – 1000 MHz)

**PASS.**

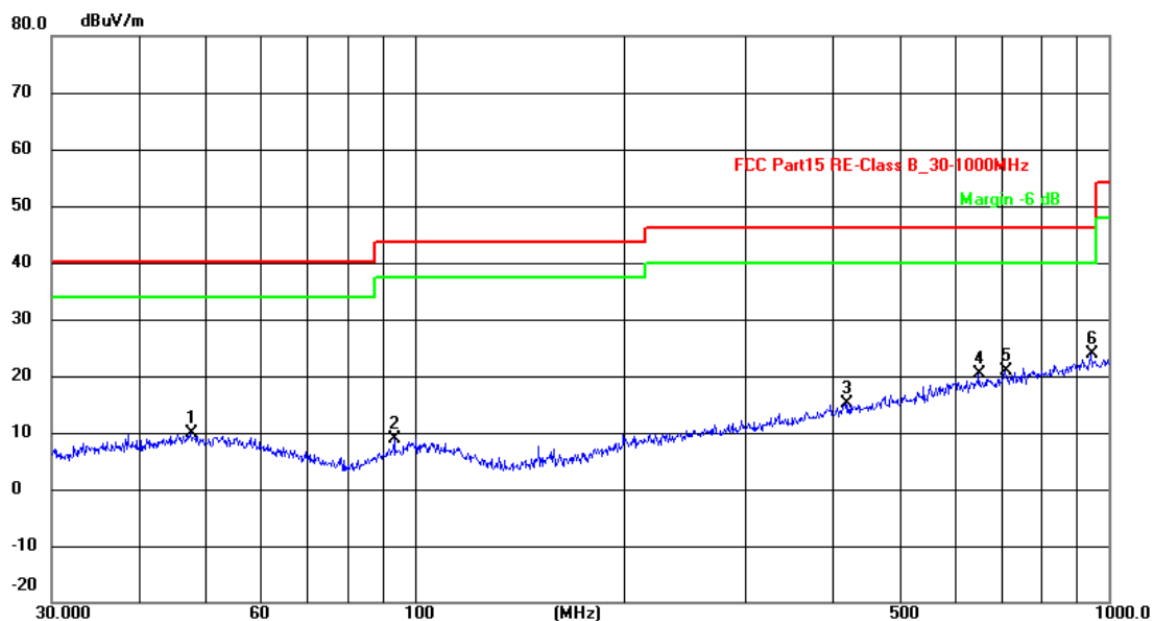
Only record the worst test result in this report.

The test data please refer to following page.

**Below 1GHz***Horizontal*

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	54.4516	28.11	-17.10	11.01	40.00	-28.99	QP
2	99.5281	28.68	-18.44	10.24	43.50	-33.26	QP
3	151.0666	32.53	-21.59	10.94	43.50	-32.56	QP
4	541.3725	31.54	-10.62	20.92	46.00	-25.08	QP
5	755.3873	29.69	-7.67	22.02	46.00	-23.98	QP
6	938.8326	29.72	-5.44	24.28	46.00	-21.72	QP

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	47.4918	26.33	-16.42	9.91	40.00	-30.09	QP
2	93.4402	28.39	-19.41	8.98	43.50	-34.52	QP
3	417.6411	27.98	-12.96	15.02	46.00	-30.98	QP
4	649.6597	29.05	-8.78	20.27	46.00	-25.73	QP
5	709.1823	28.99	-8.21	20.78	46.00	-25.22	QP
6	942.1305	29.22	-5.42	23.80	46.00	-22.20	QP

Note:

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

## 5.6.8. Results of Radiated Emissions (1 GHz – 10 GHz)

*Note: All the modes have been tested and recorded worst mode in the report.*

## Channel 01 / 903.5 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.
1807.12	53.49	33.06	35.04	3.94	55.45	74.00	-18.55	Peak	Horizontal
1807.08	38.02	33.06	35.04	3.94	39.98	54.00	-14.02	Average	Horizontal
1807.06	53.44	33.16	35.06	3.96	55.50	74.00	-18.50	Peak	Vertical
1807.01	39.82	33.16	35.06	3.96	41.88	54.00	-12.12	Average	Vertical

## Channel 10/ 908 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.
1816.05	49.09	33.16	35.15	3.96	51.06	74.00	-22.94	Peak	Horizontal
1816.14	39.41	33.16	35.15	3.96	41.38	54.00	-12.62	Average	Horizontal
1816.02	52.61	33.26	35.17	3.98	54.68	74.00	-19.32	Peak	Vertical
1816.13	40.79	33.26	35.17	3.98	42.86	54.00	-11.14	Average	Vertical

## Channel 20/ 913 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.
1826.17	50.64	33.26	35.14	3.98	52.74	74.00	-21.26	Peak	Horizontal
1826.07	40.00	33.26	35.14	3.98	42.10	54.00	-11.90	Average	Horizontal
1826.23	50.26	33.36	35.16	4.00	52.46	74.00	-21.54	Peak	Vertical
1826.20	39.29	33.36	35.16	4.00	41.49	54.00	-12.51	Average	Vertical

## Channel 01 / 914MHz

Freq. MHz	Reading dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab. Los dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
1805.50	52.73	33.06	35.04	3.94	54.69	74.00	-19.31	Peak	Horizontal
1805.50	39.48	33.06	35.04	3.94	41.44	54.00	-12.56	Average	Horizontal
1805.50	52.84	33.16	35.06	3.96	54.90	74.00	-19.10	Peak	Vertical
1805.50	40.88	33.16	35.06	3.96	42.94	54.00	-11.06	Average	Vertical

## Channel 10/ 918.5 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.
1829.50	50.75	33.16	35.15	3.96	52.72	74.00	-21.28	Peak	Horizontal
1829.50	40.66	33.16	35.15	3.96	42.63	54.00	-11.37	Average	Horizontal
1829.50	51.89	33.26	35.17	3.98	53.96	74.00	-20.04	Peak	Vertical
1829.50	41.97	33.26	35.17	3.98	44.04	54.00	-9.96	Average	Vertical

## Channel 20/ 923.5 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.
1854.50	51.13	33.26	35.14	3.98	53.23	74.00	-20.77	Peak	Horizontal
1854.50	38.97	33.26	35.14	3.98	41.07	54.00	-12.93	Average	Horizontal
1854.50	49.67	33.36	35.16	4.00	51.87	74.00	-22.13	Peak	Vertical
1854.50	39.07	33.36	35.16	4.00	41.27	54.00	-12.73	Average	Vertical

## Notes:

- 1). *Measuring frequencies from 9 KHz~10<sup>th</sup> harmonic (ex. 26GHz), No emission found between lowest internal used/generated frequency to 30 MHz.*
- 2). *Radiated emissions measured in frequency range from 9 KHz~10<sup>th</sup> harmonic (ex. 26GHz) were made with an instrument using Peak detector mode.*



## 5.7. AC Power Line Conducted Emissions

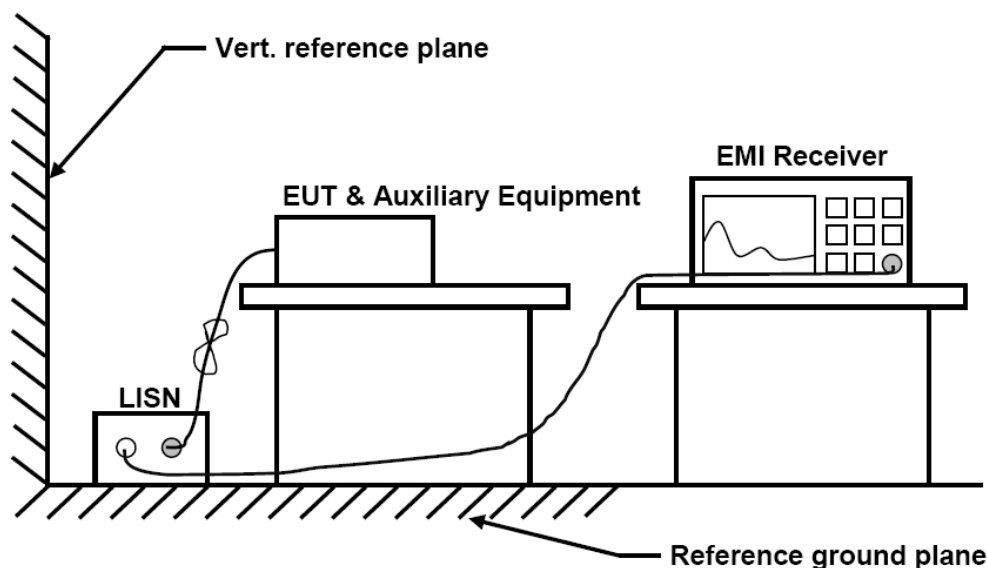
### 5.7.1 Standard Applicable

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 (MHz)	Limits (dB $\mu$ V)	
	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

*Not Applicable!!!*

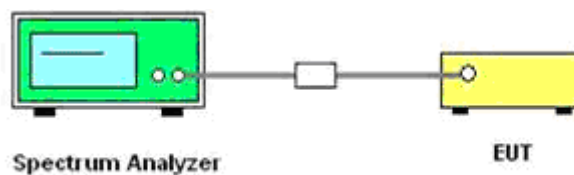
*The device was powered by DC battery (2\*AA battery).*

## 5.8. Restrict-band Band-edge Measurements

### 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 412172 section 1.1 Field Strength Approach (linear terms):

$$\text{eirp} = p_t \times g_t = (E \times d)^2 / 30$$

Where:

$p_t$  = transmitter output power in watts,

$g_t$  = numeric gain of the transmitting antenna (unit less),

$E$  = electric field strength in V/m,

$d$  = measurement distance in meters (m).

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

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 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 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  $\leq 30$  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.

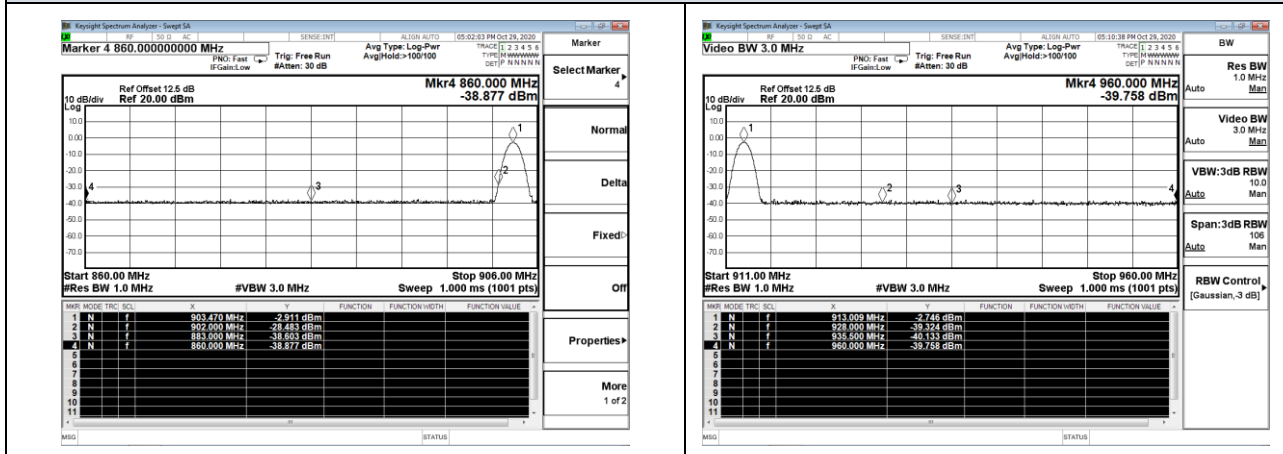
## 5.8.5. Test Results

PASS

Test Mode	Test Channel (MHz)	Freq. (MHz)	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
900M	903.5	902	-28.48	2.0	0	68.780	PEAK	74	PASS
	903.5	902	-47.799	2.0	0	49.461	AV	54	PASS
	913	928	-39.32	2.0	0	57.940	PEAK	74	PASS
	913	928	-51.179	2.0	0	46.081	AV	54	PASS
	914	902	-41.24	2.0	0	56.020	PEAK	74	PASS
	914	902	-53.687	2.0	0	43.573	AV	54	PASS
	923.5	928	-41.89	2.0	0	55.370	PEAK	74	PASS
	923.5	928	-53.315	2.0	0	43.954	AV	54	PASS

## Band-edge measurements for conducted emissions

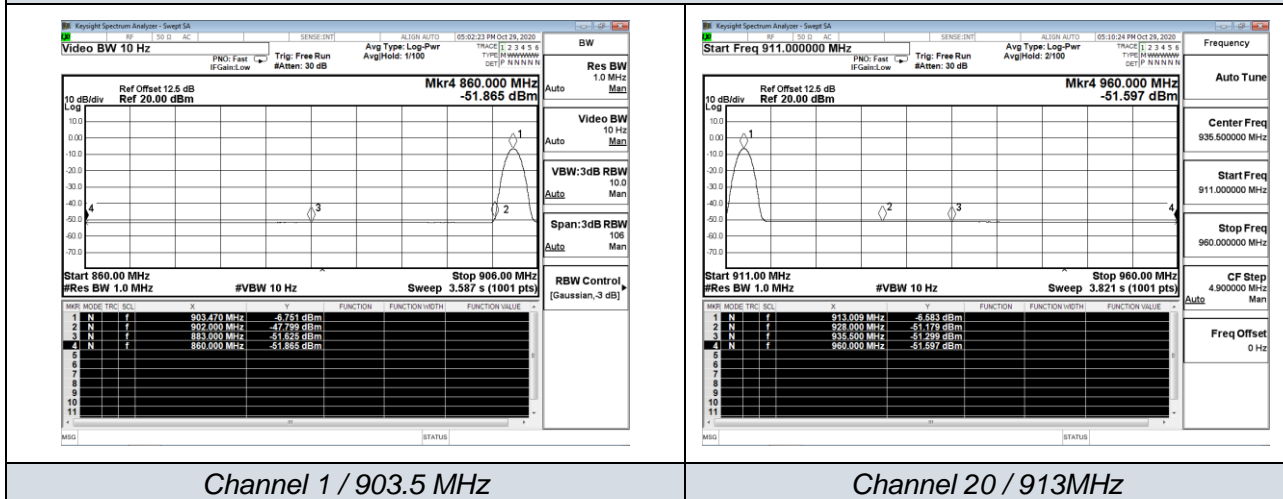
## GFSK (903.5-913)MHz (PK)



Channel 1 / 903.5 MHz

Channel 20 / 913MHz

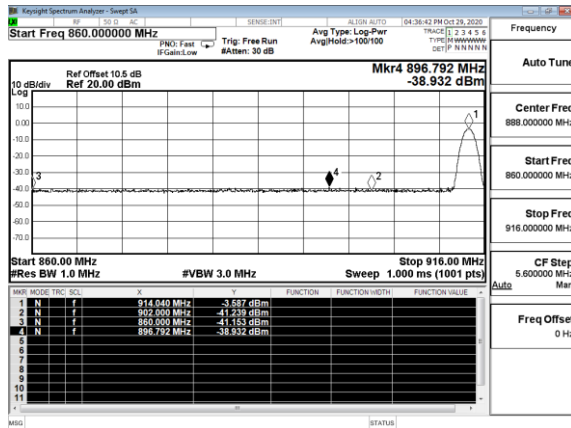
## GFSK (903.5-913)MHz (AV)



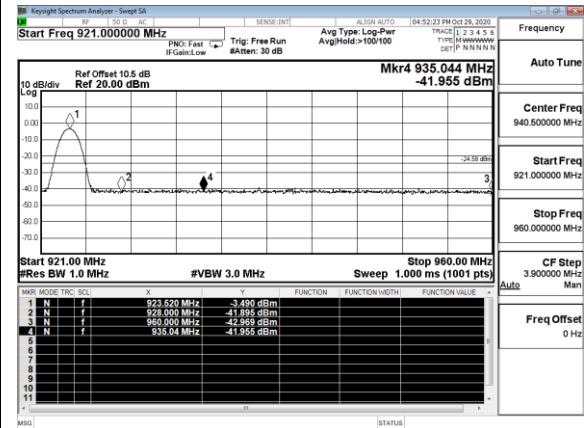
Channel 1 / 903.5 MHz

Channel 20 / 913MHz

## GFSK (914-923.5)MHz (PK)

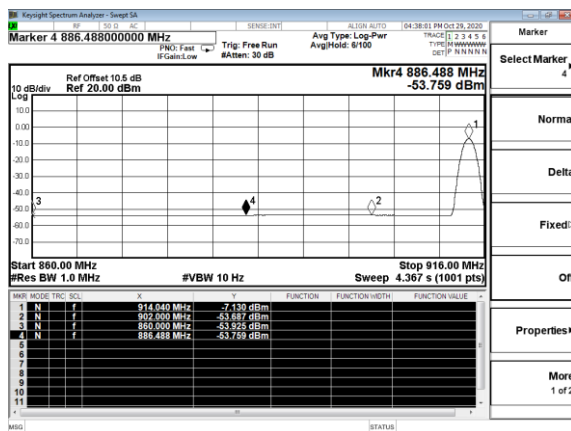


Channel 1 / 914 MHz

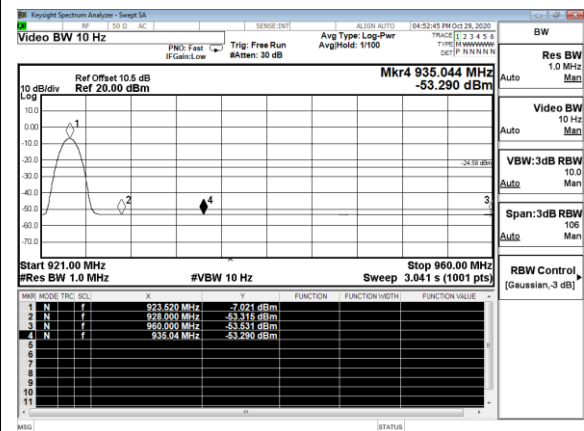


Channel 20 / 923.5MHz

## GFSK (914-923.5)MHz (AV)



Channel 1 / 914 MHz



Channel 20 / 923.5MHz

## 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=330KHz/Sweep time=Auto/Detector=Peak;
6. 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 Requirement

### 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 & 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.

#### 5.9.2.2. Antenna Connector Construction

The directional gains of antenna used for transmitting is 0dBi(Max), and the antenna is a Internal Antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details.

#### 5.9.2.3. Results: Compliance.

## 6. SUMMARY OF TEST EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2019-11-22	2020-11-21
2	DC Power Supply	Agilent	E3642A	N/A	2019-11-14	2020-11-13
3	Temperature & Humidity Chamber	GUANGZHOU GOGNWEN	GDS-100	70932	2020-10-08	2021-10-07
4	EMI Test Software	EZ	EZ-EMC	/	N/A	N/A
5	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2020-06-22	2021-06-21
6	Positioning Controller	MF	MF7082	MF78020803	2020-06-22	2021-06-21
7	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2018-07-26	2021-07-25
8	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2018-07-26	2021-07-25
9	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2018-07-02	2021-07-01
10	EMI Test Receiver	R&S	ESR 7	101181	2020-06-22	2021-06-21
11	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2019-11-14	2020-11-13
12	Broadband Preamplifier	/	BP-01M18 G	P190501	2020-06-22	2021-06-21
13	RF Cable-R03m	Jye Bao	RG142	CB021	2020-06-22	2021-06-21
14	RF Cable-HIGH	SUHNER	SUCOFLE X 106	03CH03-HY	2020-06-22	2021-06-21
15	EMI Test Receiver	R&S	ESPI	101840	2020-06-22	2021-06-21
16	Artificial Mains	R&S	ENV216	101288	2020-06-22	2021-06-21
17	10dB Attenuator	SCHWARZBECK	MTS-IMP-1 36	261115-001-0032	2020-06-22	2021-06-21

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

## **7. TEST SETUP PHOTOGRAPHS OF EUT**

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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