

# **FCC Test Report**

Report No.: AGC01569201202FE03

FCC ID	8	2AYIG13D1241096X
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Bathroom receiving end
BRAND NAME	•	DENVEL
MODEL NAME	÷	13D124-1096, 13D124-1096X
APPLICANT		WUXI DENVEL INTELLIGENT ELECTRONIC INC.
DATE OF ISSUE	® •	Jan. 07. 2021
STANDARD(S)	:	FCC Part 15.247
REPORT VERSION	:	V1.0



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## **REPORT REVISE RECORD**

<b>Report Version</b>	Revise Time	Issued Date	Valid Version	Notes
V1.0		Jan. 07. 2021	Valid	Initial Release

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# **1. VERIFICATION OF COMPLIANCE**

Applicant	WUXI DENVEL INTELLIGENT ELECTRONIC INC.		
Address	Building A, No.8 LianHe Road, WuXi, JiangSu, China		
Manufacturer	WUXI DENVEL INTELLIGENT ELECTRONIC INC.		
Address	Building A, No.8 LianHe Road, WuXi, JiangSu, China		
Factory	WUXI DENVEL INTELLIGENT ELECTRONIC INC.		
Address	Building A, No.8 LianHe Road, WuXi, JiangSu, China		
Product Designation	Bathroom receiving end		
Brand Name	DENVEL		
Test Model	13D124-1096		
Series Model	13D124-1096X		
Difference description	All the series models are the same as the test model except for the model names and the appearance of the screen printing font.		
Date of test	Dec. 28, 2020 to Jan. 07. 2021		
Deviation	No any deviation from the test method		
Condition of Test Sample	Normal		
Test Result	Pass		
Report Template	AGCRT-US-BLE/RF		

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Prepared By

sky dong

Sky Dong (Project Engineer)

Jan. 07. 2021

Max 2hans

Reviewed By

Max Zhang (Reviewer)

Jan. 07. 2021

Approved By

owa

Forrest Lei (Authorized Officer)

Jan. 07. 2021

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Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/



# 2. GENERAL INFORMATION

# 2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Bathroom receiving end". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

<b>Operation Frequency</b>	2405Mhz, 2422Mhz, 2450Mhz, 2470Mhz			
RF Output Power	4.588dBm (Max)			
Modulation	GFSK			
Number of channels	4 Channel			
Antenna Designation	PCB Antenna (Comply with requirements of the FCC part 15.203)			
Antenna Gain	0dBi			
Hardware Version	V1.0			
Software Version	V1.0			
Power Supply	DC 5V (alkaline dry battery AAA*2)			

#### 2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band Channel Number		Frequency	
	00	2405 MHz	
	01	2422 MHz	
2400~2483.5MHz	02	2450 MHz	
	03	2470 MHz	

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# 2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for FCC ID: 2AYIG13D1241096X filing to comply with the FCC Part 15.247 requirements.

#### 2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

#### 2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

# 2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

#### 2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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# **3. MEASUREMENT UNCERTAINTY**

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

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted,  $Uc = \pm 0.8 dB$
- Uncertainty of RF power density, conducted, Uc = ±2.6 dB
- Uncertainty of spurious emissions, conducted,  $Uc = \pm 2.7 \text{ dB}$
- Uncertainty of Occupied Channel Bandwidth:  $Uc = \pm 2 \%$

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# 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION		
1	Low channel TX(2405MHz)		
2	Middle channel TX(2450MHz)		
3	High channel TX(2470MHz)		

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

4. For battery operated equipment, the equipment tests are performed using a new battery.

5. The test software is not applicable which can set the EUT into the individual test modes.

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# **5. SYSTEM TEST CONFIGURATION**

# **5.1. CONFIGURATION OF TESTED SYSTEM**

Radiated Emission Configure:

EUT

# 5.2. EQUIPMENT USED IN TESTED SYSTEM

ltem	Equipment	Model No. ID or Specification		Remark	
1	Bathroom receiving end	13D124-1096	2AYIG13D1241096X	EUT	

# 5.3. SUMMARY OF TEST RESULTS

FCC RULES	FCC RULES DESCRIPTION OF TEST	
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Not applicable

Note: The conducted emission tests at AC port are not required for devices which only employ DC power for operation.

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# 6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd		
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China		
Designation Number	CN1259		
FCC Test Firm Registration Number	975832		
A2LA Cert. No.	5054.02		
Description	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA		

# TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 09, 2019	Sep. 08, 2021
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 09, 2019	Sep. 08, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 17, 2019	May 16, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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# 7. PEAK OUTPUT POWER

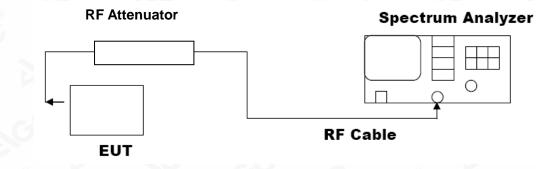
# 7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW≥DTS bandwidth
- 3. VBW≥3\*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

# 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



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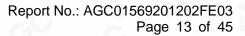
#### 7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT					
Frequency	FOR GFSK MOUDULATION Frequency Peak Power Applicable Limits				
(GHz)	(dBm)	(dBm)	Pass or Fail		
2.405	3.974	30	Pass		
2.450	4.588	30	Pass		
2.470	4.208	30	Pass		

CH0



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CH02



CH03



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# 8.6 DB BANDWIDTH

#### **8.1. MEASUREMENT PROCEDURE**

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW $\ge$ 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

#### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

#### **8.3. LIMITS AND MEASUREMENT RESULTS**

LIMITS AND MEASUREMENT RESULT									
Annilashis Linde		Applicable Limits							
Applicable Limits	Test Data	Criteria							
	Low Channel	846.9	PASS						
>500KHZ	Middle Channel	861.9	PASS						
	High Channel	872.3	PASS						

# TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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# TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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# 9. CONDUCTED SPURIOUS EMISSION

#### 9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

#### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

#### 9.3. MEASUREMENT EQUIPMENT USED

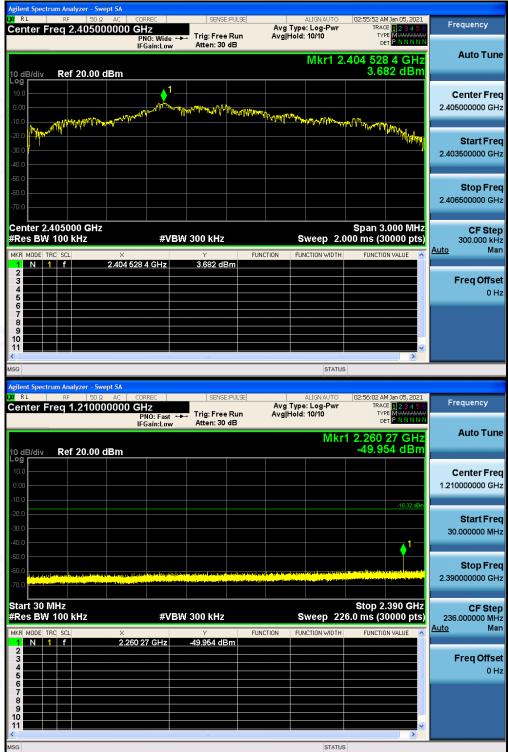
The same as described in section 6.

#### 9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT										
Applicable Limite	Measurement Result									
Applicable Limits	Test Data	Criteria								
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS								

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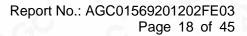




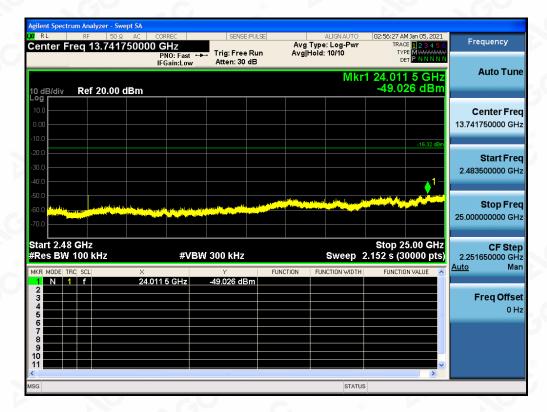
# TEST RESULT FOR ENTIRE FREQUENCY RANGE

GFSK MODULATION IN LOW CHANNEL

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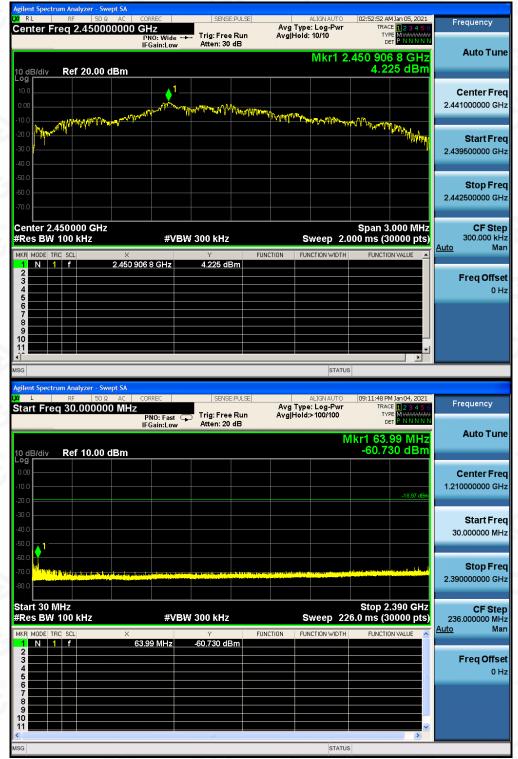




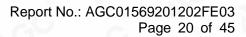
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#### **GFSK MODULATION IN MIDDLE CHANNEL**



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IM         RF         50 Ω         AC         CORREC           Start Freq 2.480000000 GHz         PN0: Fast         PN0: Fast         PN0: Fast           In dB/div         Ref 0.00 dBm	SENSE:PULSE	ALIGNAUTO Avg Type: Log-Pwr Avg Hold>100/100	09:14:42 PM Jan04, 2021 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET PNNNNN r1 7.361 0 GHz -53,612 dBm	Frequency Auto Tune
PNO: Fast G IFGain:Low			DET P NNNNN r1 7.361 0 GHz	Auto Tune
			-00.012 dBm	
-10.0			-18.97 dBm	<b>Center Freq</b> 13.740000000 GHz
-30.0 -40.0 -50.0 -60.0				Start Freq 2.48000000 GHz
-70.0 -80.0 Hilling and Alexandra differences and a solution -90.0				<b>Stop Freq</b> 25.00000000 GHz
Start 2.48 GHz #Res BW 100 kHz #VBW	/ 300 kHz		Stop 25.00 GHz 154 s (30000 pts)	<b>CF Step</b> 2.252000000 GHz <u>Auto</u> Man
MRR         MODE         TRC         SCL         X           1         N         1         f         7.3610 GHz         2           3         4         5         6         6         7	Y FUNI -53.612 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	Freq Offset 0 Hz

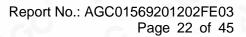
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enter Freq 2.47		SENSE:PULSE	Avg Type: Log-Pwr	03:40:08 AM Jan 05, 2021 TRACE 123456 TYPE MWWWW	Frequency
	PNO: Wid IFGain:Lo		Avg Hold: 10/10	DET P N N N N N	
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4					0
6					
8 9 0					
				<b>▼</b>	
1		III	STATUS	×	
g ilent Spectrum Analyzer			· · · ·		
G jilent Spectrum Analyzer R L RF	50 Ω AC CORREC 5000000 GHz	SENSE:PULSE	ALIGN AUTO	03:40:17 AM Jan 05, 2021 TRACE 1 2 3 4 5 6 TYPE M MAAAAAAA	Frequency
G ilent Spectrum Analyzer R L RF	50 Ω AC CORREC	st 🛶 Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:40:17 AM Jan 05, 2021 TRACE 1 2 3 4 5 6 TYPE M WWWWWW DET P N N N N N	
g ilent Spectrum Analyzer RL RF enter Freq 1.21	50 Ω AC CORREC 50000000 GHz PNO: Fas IFGain:Lc	st 🛶 Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:40:17 AMJan 05, 2021 TRACE 2 3 4 5 6 TYPE M WWWWW DET P NNNNN 2.346 67 GHz	
G ilent Spectrum Analyzer RL RF enter Freq 1.21: O dB/div Ref 20.	50 Ω AC CORREC 50000000 GHz PNO: Fas IFGain:Lc	st 🛶 Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:40:17 AM Jan 05, 2021 TRACE 1 2 3 4 5 6 TYPE M WWWWWW DET P N N N N N	Auto Tu
G ilent Spectrum Analyzer RL RF enter Freq 1.21: 0 dB/div Ref 20.	50 Ω AC CORREC 50000000 GHz PNO: Fas IFGain:Lc	st 🛶 Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:40:17 AMJan 05, 2021 TRACE 2 3 4 5 6 TYPE M WWWWW DET P NNNNN 2.346 67 GHz	Auto Tu Center Fr
G ilent Spectrum Analyzer RL RF enter Freq 1.21: 0 dB/div Ref 20.0 0 0 0 0	50 Ω AC CORREC 50000000 GHz PNO: Fas IFGain:Lc	st 🛶 Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:40:17 AMJan 05, 2021 TRACE 2 3 4 5 6 TYPE M WWWWW DET P NNNNN 2.346 67 GHz	Auto Tu Center Fr
G         RL         RF           RL         RF         RF           enter Freq 1.21:         RF         RF           0 dB/div         Ref 20.0         RF           0.0         RF         RF	50 Ω AC CORREC 50000000 GHz PNO: Fas IFGain:Lc	st 🛶 Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:40:17 AM 3=n 05, 2021 TRACE 1 2 3 4 5 6 TYPE MUNICAR DET PNNNN 2.346 67 GHz -57.678 dBm	Auto Tu Center Fr 1.215000000 G
Image: Sectrum Analyzer           RL         RF           enter Freq 1.21:           0 dB/div         Ref 20.0	50 Ω AC CORREC 50000000 GHz PNO: Fas IFGain:Lc	st 🛶 Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:40:17 AM 3=n 05, 2021 TRACE 1 2 3 4 5 6 TYPE MUNICAR DET PNNNN 2.346 67 GHz -57.678 dBm	Auto Tu Center Fr 1.21500000 G Start Fr
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g jlent Spectrum Analyzer RL RF enter Freq 1.21: 0 dB/div Ref 20. 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0	50 Q AC   CORREC 5000000 GHz PNO: Fa IFGain:Lo	st 🛶 Trig: Free Run	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10	03:40:17 AM 3#1 05, 2021 TRACE 1 2 3 4 5 6 TYPE MUNUMAN DET PINNINN 2.346 67 GHz -57.678 dBm	Auto Tur Center Fr 1.21500000 G Start Fr 30.000000 M Stop Fr
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g         Itent Spectrum Analyzer           RL         RF           enter Freq 1.213           0 dB/div         Ref 20.           0 d	50 Q AC CORREC 5000000 GHZ PNO: Fat IFGaintLC 00 dBm	Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr1	03:40:17 AM Jan 05, 2021 TRACE 12 3 4 5 G TYPE WWWWWWWWWWWW DET P NNNNN 2.346 67 GHz -57.678 dBm -15.92 dBm -15.92 dBm Stop 2.400 GHz 0 ms (30000 pts)	Auto Tu Center Fr 1.21500000 G Start Fr 30.00000 M Stop Fr 2.40000000 G
G         RE         RF         RE </td <td>50 Q AC CORREC 5000000 GHz PRO: RA IFGain:Lo 00 dBm</td> <td>st ↔ Trig: Free Run Atten: 30 dB</td> <td>ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr1</td> <td>03:40:17 AM 3an 05, 2021 TRACE 1 2 3 4 5 6 TYPE MUMMUN DET P NNNNN 2.346 67 GHz -57.678 dBm -15.62 dBm -15.62 dBm -15.62 dBm -15.62 dBm -15.62 dBm -15.62 dBm</td> <td>Auto Tu Center Fr 1.215000000 G Start Fr 30.000000 M Stop Fr 2.400000000 G CF Sto 237.000000 M Auto M</td>	50 Q AC CORREC 5000000 GHz PRO: RA IFGain:Lo 00 dBm	st ↔ Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr1	03:40:17 AM 3an 05, 2021 TRACE 1 2 3 4 5 6 TYPE MUMMUN DET P NNNNN 2.346 67 GHz -57.678 dBm -15.62 dBm -15.62 dBm -15.62 dBm -15.62 dBm -15.62 dBm -15.62 dBm	Auto Tu Center Fr 1.215000000 G Start Fr 30.000000 M Stop Fr 2.400000000 G CF Sto 237.000000 M Auto M
Image: Section Analyzer         RL       RF         enter Freq 1.21:         D dB/div       Ref 20.0         D dB/div       Ref 20.1	SO Q AC CORREC 5000000 GHZ PRO: RA IFGain:La 00 dBm	st ↔ Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr1	03:40:17 AM Jan 05, 2021 TRACE 12 3 4 5 G TYPE WWWWWWWWWWWW DET P NNNNN 2.346 67 GHz -57.678 dBm -15.92 dBm -15.92 dBm Stop 2.400 GHz 0 ms (30000 pts)	Auto Tu Center Fr 1.215000000 G Start Fr 30.000000 M Stop Fr 2.400000000 G CF Sto 237.000000 M Auto M
Image: Sector of the sector	SO Q AC CORREC 5000000 GHZ PRO: RA IFGain:La 00 dBm	st ↔ Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr1	03:40:17 AM Jan 05, 2021 TRACE 12 3 4 5 G TYPE WWWWWWWWWWWW DET P NNNNN 2.346 67 GHz -57.678 dBm -15.92 dBm -15.92 dBm Stop 2.400 GHz 0 ms (30000 pts)	Auto Tur Center Fro 1.21500000 Gl Start Fro 30.000000 Ml Stop Fro 2.400000000 Gl CF Sto 237.00000 Ml
Image: Sector of the sector	SO Q AC CORREC 5000000 GHZ PRO: RA IFGain:La 00 dBm	st ↔ Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr1	03:40:17 AM Jan 05, 2021 TRACE 12 3 4 5 G TYPE WWWWWWWWWWWW DET P NNNNN 2.346 67 GHz -57.678 dBm -15.92 dBm -15.92 dBm Stop 2.400 GHz 0 ms (30000 pts)	Auto Tur Center Fr 1.215000000 G Start Fr 30.000000 M Stop Fr 2.400000000 G CF Sto 237.000000 M Auto M
G	SO Q AC CORREC 5000000 GHZ PRO: RA IFGain:La 00 dBm	st ↔ Trig: Free Run Atten: 30 dB	ALIGNAUTO Avg Type: Log-Pwr Avg Hold: 10/10 Mkr1	03:40:17 AM Jan 05, 2021 TRACE 12 3 4 5 G TYPE WWWWWWWWWWW DET P NNNNN 2.346 67 GHz -57.678 dBm -15.92 dBm -15.92 dBm Stop 2.400 GHz 0 ms (30000 pts)	Auto Tur Center Fr 1.215000000 G Start Fr 30.000000 M Stop Fr 2.400000000 G CF Sto 237.000000 M Auto M

#### GFSK MODULATION IN HIGH CHANNEL

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		ctrum		lyzer -																	
lX/ Cer		Fre	RF a 1	50 3.75		AC					ISE:PULS			Туре	ALIGNAUTO : Log-Pwr		TRA	M Jan 05, 2 CE <mark>1 2 3 4</mark>	56		Frequency
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10 c Log	B/div	/	Ref	20.0	0 dE	3m											-48.2	47 dE	m		
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MKR 1	MODE					×	000 0	CH-		Y -48.247	d 🖸 na	FUN	CTION	FUN	ICTION WIDT	н	FUNCTI	ON VALUE		A	<u>uto</u> Man
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Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

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# TEST RESULT FOR BAND EDGE

#### GFSK MODULATION IN LOW CHANNEL

#### GFSK MODULATION IN HIGH CHANNEL



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# **10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY**

#### **10.1. MEASUREMENT PROCEDURE**

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set the SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

#### **10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)**

Refer to Section 7.2.

#### **10.3. MEASUREMENT EQUIPMENT USED**

Refer to Section 6.

#### **10.4. LIMITS AND MEASUREMENT RESULT**

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-13.894	8	Pass
Middle Channel	-16.829	8	Pass
High Channel	-13.467	8	Pass

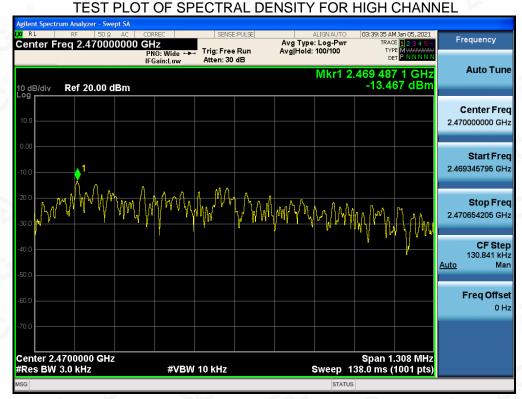
# TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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#### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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# **11. RADIATED EMISSION**

#### **11.1. MEASUREMENT PROCEDURE**

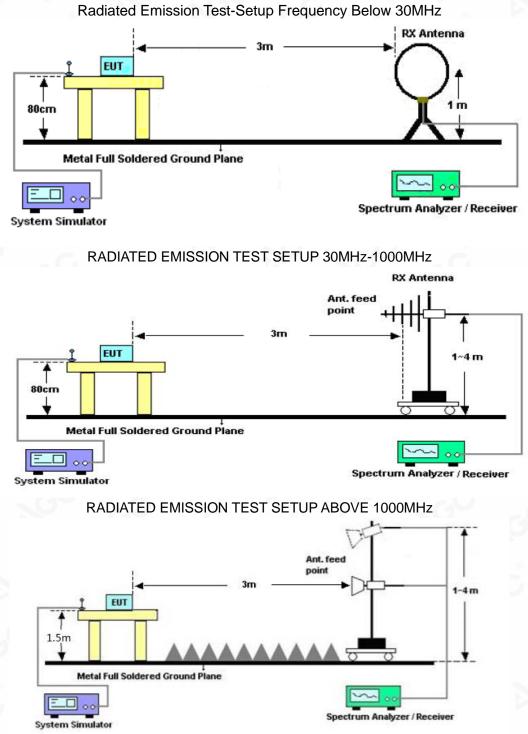
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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#### 11.2. TEST SETUP



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# **11.3. LIMITS AND MEASUREMENT RESULT**

15.209 Limit in the below table 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

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

# 11.4. TEST RESULT

# **RADIATED EMISSION BELOW 30MHz**

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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	(2)		RADIALED						
UT		Bathroor	m receiving	end	Model Na	me	13D124	-1096	
empera	ature	25° C	5	0	Relative H	Relative Humidity 60%			
ressur	e	960hPa	960hPa Test Voltage Norma						
est Mo	de	Mode 1		20	Antenna		Horizontal		
	120 110 100 90 80 70 60 50 40 30 20 10	1 4 <sup>2</sup>							
2		Limit — Horizor Detector		Frequency[Hz			1	1G	
NO	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	40.6700	23.40	11.91	40.00	16.60	200	90	Horizontal	
2	52.3100	25.12	11.49	40.00	14.88	100	40	Horizontal	
3	99.8400	21.27	11.30	43.50	22.23	200	190	Horizontal	

#### **RADIATED EMISSION BELOW 1GHZ**

0400 1.30 43.30 200 190 141.5500 21.45 43.50 22.05 Horizontal 4 14.88 100 130 233.7000 21.68 14.33 46.00 24.32 100 220 Horizontal 5 6 490.7500 27.62 21.96 46.00 18.38 100 190 Horizontal

**RESULT: PASS** 

Compliance Dedicated Fes Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "bedicated "rest Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written enhorization of AGE presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com. /Inspection he test results Bf he test report.



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EUT Bathroom rec				end	Model Na	me	13D124	-1096		
Tempera	ature	25° C	e		Relative H	lumidity	60%			
Pressur	e	960hPa Test Voltage			ige	Normal Voltage				
Test Mo	de	Mode 1	20		Antenna		Vertical			
L evelidBuVmi	30 20 10 -10 30M -0 P	Limit Vertic	100M	Frequency[Hz				1G		
NO	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		

	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	48.4300	29.96	11.71	40.00	10.04	100	310	Vertical
2	63.9500	23.81	10.25	40.00	16.19	100	350	Vertical
3	138.6400	20.13	14.78	43.50	23.37	100	270	Vertical
4	235.6400	23.06	14.48	46.00	22.94	100	330	Vertical
5	396.6600	25.13	19.65	46.00	20.87	100	10	Vertical
6	658.5600	31.43	25.28	46.00	14.57	100	140	Vertical

#### RESULT: PASS Note:

- 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.
- 2. All test modes had been tested. The mode 1 is the worst case and recorded in the report.

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