

# **FCC Test Report**

Report No.: AGC06904210106FE03

**FCC ID** : 2AHYVREWINDBT

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION**: Rewind Wireless Headphones

BRAND NAME : JLab

**MODEL NAME** : Rewind Wireless

**APPLICANT**: PEAG, LLC dba JLab Audio

**DATE OF ISSUE** : Jan. 19, 2021

**STANDARD(S)** : FCC Part 15.247

**REPORT VERSION**: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

AGC CAMPON CO



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#### REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	® /	Jan. 19, 2021	Valid	Initial Release

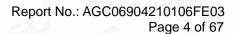
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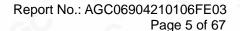
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## 1. VERIFICATION OF CONFORMITY

4			
Applicant	PEAG, LLC dba JLab Audio		
Address 2281 Las Palmas Drive, Suite 101, Carlsbad, CA 92011, USA			
Manufacturer	PEAG, LLC dba JLab Audio		
Address	2281 Las Palmas Drive, Suite 101, Carlsbad, CA 92011, USA		
Factory	PEAG, LLC dba JLab Audio		
Address	2281 Las Palmas Drive, Suite 101, Carlsbad, CA 92011, USA		
Product Designation Rewind Wireless Headphones			
Brand Name JLab			
Test Model	Rewind Wireless		
Date of test	Jan. 12, 2021 to Jan. 19, 2021		
Deviation	No any deviation from the test method		
Condition of Test Sample	Normal		
Test Result	Pass		
Report Template	AGCRT-US-BR/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	Then Huong	
	Thea Huang Project Engineer	Jan. 19, 2021
Reviewed By	Max Zhang	
Page 19	Max Zhang Reviewer	Jan. 19, 2021
Approved By	Formesties	
	Forrest Lei Authorized Officer	Jan. 19, 2021

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#### 2. GENERAL INFORMATION

#### 2.1. PRODUCT DESCRIPTION

The EUT is designed as "Rewind Wireless Headphones". It is designed by way of utilizing the GFSK,  $\pi$  /4-DQPSK and 8DPSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480 GHz	
RF Output Power	1.760dBm (Max)	
Bluetooth Version	V5.0	
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps	
Number of channels	79 for BR/EDR	
Hardware Version	V1.0	
Software Version	V16	
Antenna Designation	enna Designation PCB Antenna (Comply with requirements of the FCC part 15.203)	
Antenna Gain	Antenna Gain 0dBi	
Power Supply	DC 3.7V by battery or DC 5V adapter	
Note: The EUT doesn't supp	port BLE.	

#### 2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	<b>Channel Number</b>	Frequency
100	0	2402 MHz
0	01	2403 MHz
10° -C		
	38	2440 MHz
2402~2480MHz	39	2441 MHz
0 00	40	2442 MHz
	-C : 2 F	
	77	2479 MHz
	78	2480 MHz

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#### 2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHz, in every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally, the type of connection (e.g. single of multi slot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also, the slave of the connection will use these settings. Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

#### 2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a hopping sequence in data mode:

40, 21, 44, 23, 04, 15, 66, 56, 19, 78, 07, 28, 69, 55,

36, 45, 05, 13, 43, 74, 57, 35, 67, 76, 02, 34, 54, 63,

42, 11, 30, 06, 64, 25, 75, 48, 17, 33, 58, 01, 29, 14,

51, 72, 03, 31, 50, 61, 77, 18, 10, 47, 12, 68, 08, 49,

20, 00, 73, 09, 16, 60, 71, 41, 24, 53, 38, 26, 46, 37,

65, 32, 70, 52, 27, 59, 22, 62, 39

#### 2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:

- 1. LAP/UAP of the master of the connection.
- 2. Internal master clock.

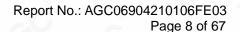
The LAP (lower address part) are the 24 LSB's of the 48 BD\_ADDRESS. The BD\_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP (upper address part) are the 24MSB's of the 48BD\_ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For behavior action with other units only offset is used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day(23h30). In most case it is implemented as 28 bits counter. For the deriving of the hopping sequence the entire. LAP (24 bits),4LSB's(4bits) (Input 1) and the 27MSB's of the clock (Input 2) are used. With this input values different mathematical procedures (permutations, additions, XOR-operations) are performed to generate the Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following behavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended.

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The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer (and it Cannot be shorter) than the minimum resolution of the clock(312.5us). The hopping sequence will always differ from the first one.

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

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

#### 2.7. 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.

#### 2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

#### 2.9. EQUIPMENT MODIFICATIONS

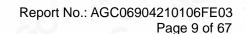
Not available for this EUT intended for grant.

#### 2.10. 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 ±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 = ±3.1 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±4.0 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, Uc = ±0.8dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %
- Uncertainty of Dwell Time: Uc = ±2 %
- Uncertainty of Frequency: Uc = ±2 %

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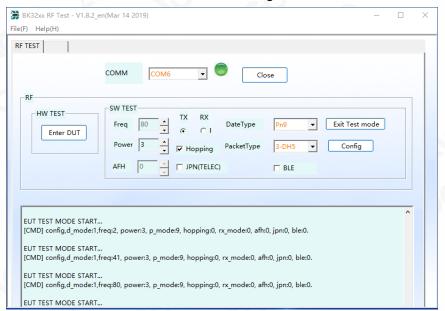
## 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel π/4-DQPSK
5	Middle channel π/4-DQPSK
6	High channel π/4-DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	Hopping mode GFSK
11	Hopping mode π/4-DQPSK
12	Hopping mode 8DPSK

#### 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.

#### Software Setting



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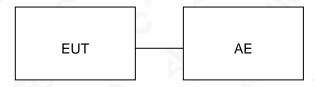
## 5. SYSTEM TEST CONFIGURATION

#### **5.1. CONFIGURATION OF EUT SYSTEM**

Radiated Emission Configure:



Conducted Emission Configure:



#### **5.2. EQUIPMENT USED IN TESTED SYSTEM**

Item	Equipment	Model No.	ID or Specification	Remark	
1	Rewind Wireless Headphones	Rewind Wireless	2AHYVREWINDBT	EUT	
2	Control Box	USB -UART		AE	

#### **5.3. SUMMARY OF TEST RESULTS**

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(1)	15.247 (b)(1) Peak Output Power	
15.247 (a)(1)	20 dB Bandwidth	Compliant
15.247 (d)	7 (d) Conducted Spurious Emission	
15.209	Radiated Emission	Compliant
15.247 (a)(1)(iii)	7 (a)(1)(iii) Number of Hopping Frequency	
15.247 (a)(1)(iii) Time of Occupancy		Compliant
15.247 (a)(1) Frequency Separation		Compliant
15.207	Conducted Emission	Not applicable

Note: The EUT is powered by battery. The EUT can not use the BT function with charging

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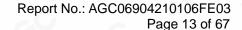
#### 6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd		
Location  1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Commun 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. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2019	Sep. 20, 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. 08,2021	Jan. 07,2023
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

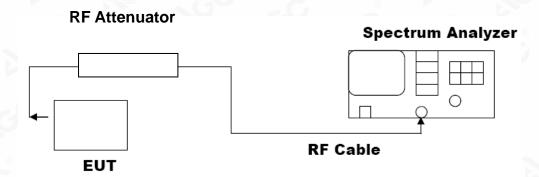
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. RBW > 20 dB bandwidth of the emission being measured.
- 4. VBW ≥RBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

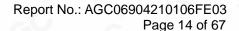
Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

## 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 FOR GFSK MOUDULATION			
2.402	-0.451	21	Pass
2.441	-1.189	21	Pass
2.480	-2.002	21	Pass

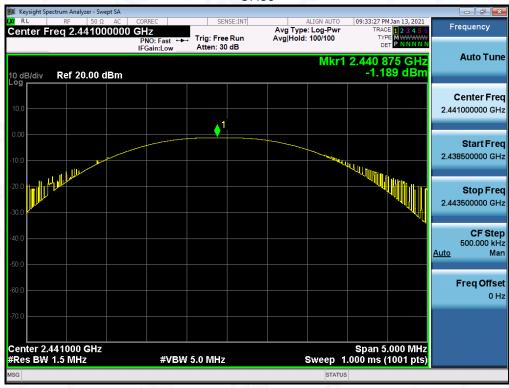
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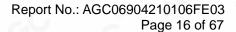
#### **CH39**



#### CH78



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g/Inspection The test results he test report.



PEAK OUTPUT POWER MEASUREMENT RESULT FOR Π/4-DQPSK MODULATION			
2.402	1.479	21	Pass
2.441	0.771	21	Pass
2.480	0.018	21	Pass

#### CH<sub>0</sub>



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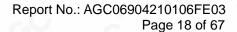
#### **CH39**



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PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8-DPSK MODULATION			
2.402	1.760	21	Pass
2.441	1.116	21	Pass
2.480	0.379	21	Pass

#### CH<sub>0</sub>



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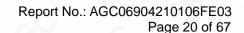
#### **CH39**



#### CH78



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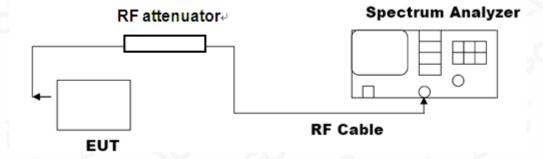


#### 8. 20DB BANDWIDTH

#### **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 Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel
  The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

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



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/Inspection The test results the test report.



#### 8.3. LIMITS AND MEASUREMENT RESULTS

MEASUREMENT RESULT FOR GFSK MOUDULATION				
Applicable Limits	Measurement Result			
	Test Data	(MHz)	Criteria	
N/A	Low Channel	1.028	PASS	
	Middle Channel	1.028	PASS	
	High Channel	1.028	PASS	

#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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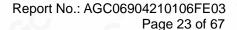
#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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g/Inspection The test results

he test report.



 MEASUREMENT RESULT FOR II /4-DQPSK MODULATION

 Measurement Result

 Test Data (MHz)
 Criteria

 Low Channel
 1.365
 PASS

 Middle Channel
 1.365
 PASS

 High Channel
 1.365
 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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MEASUREMENT RESULT FOR 8-DPSK MODULATION				
Applicable Limits	Measurement Result			
	Test Data	a (MHz)	Criteria	
N/A	Low Channel	1.348	PASS	
	Middle Channel	1.348	PASS	
	High Channel	1.348	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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Report No.: AGC06904210106FE03

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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 the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
  RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

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

The same as described in section 8.2

#### 9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

#### 9.4. LIMITS AND MEASUREMENT RESULT

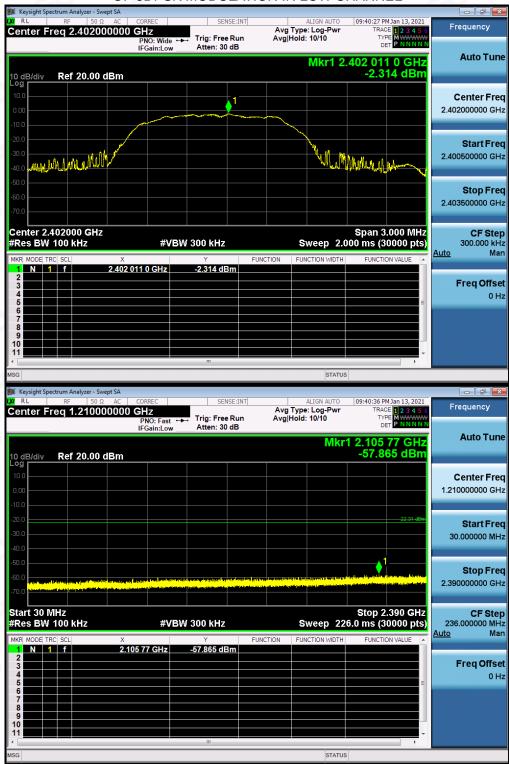
LIMITS AND MEASUREMENT RESULT			
Augustantian Limite	Measurement Result		
Applicable Limits	Test Data	Criteria	
n any 100 kHz Bandwidth Outside the requency band in which the spread spectrum	At least -20dBc than the limit Specified on the BOTTOM	PASS	
ntentional radiator is operating, the radio frequency	Channel		
cower 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. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified n§15.209(a))	At least -20dBc than the limit Specified on the TOP Channel	PASS	

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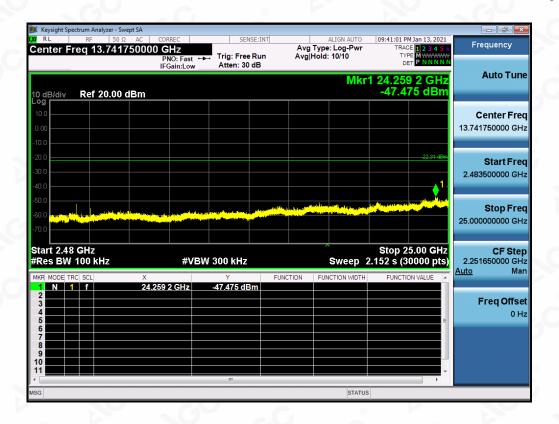
#### **TEST RESULT FOR ENTIRE FREQUENCY RANGE**

TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 8DPSK MODULATION IN LOW CHANNEL



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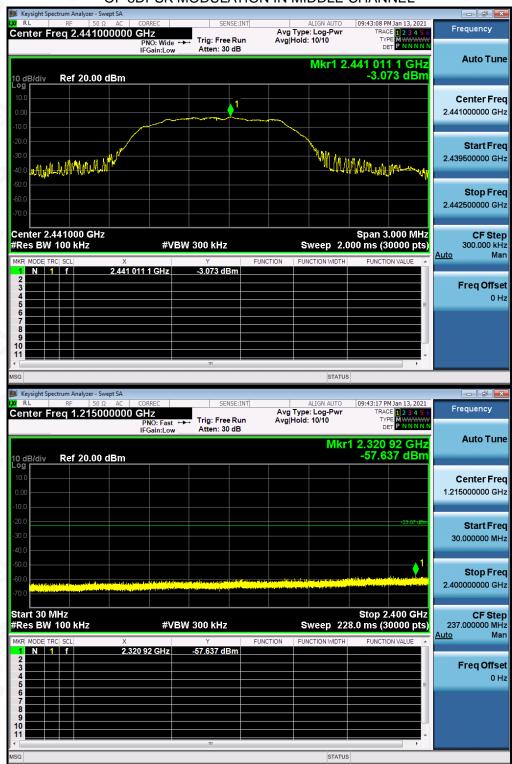




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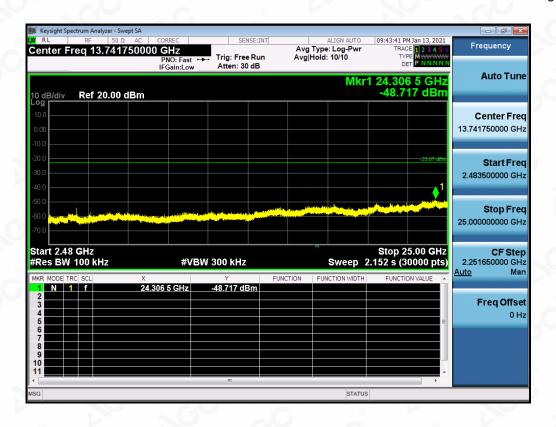


## TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN MIDDLE CHANNEL



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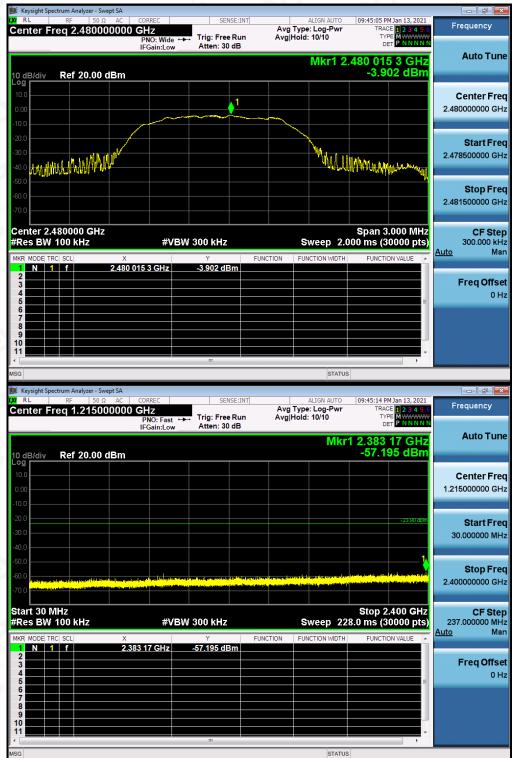




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## TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN HIGH CHANNEL



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Note: The 8DPSK modulation is the worst case and only those data recorded in the report.

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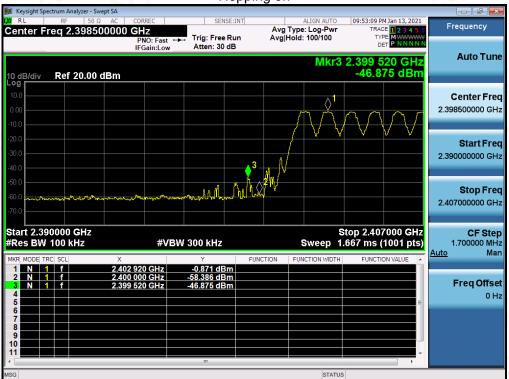
#### **TEST RESULT FOR BAND EDGE**

#### GFSK MODULATION IN LOW CHANNEL

Hopping off



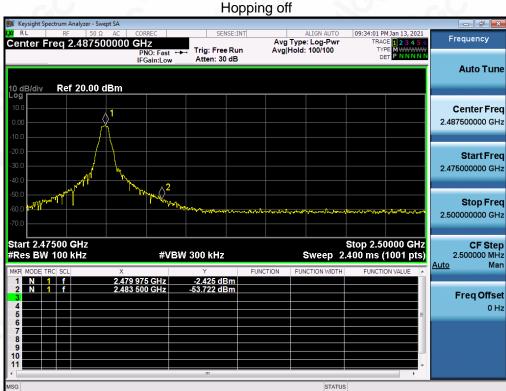




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## GFSK MODULATION IN HIGH CHANNEL

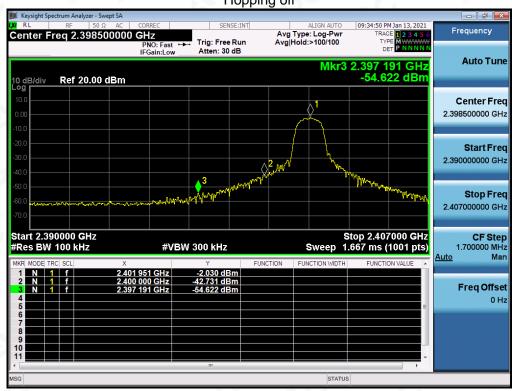


## Hopping on Frequency Avg Type: Log-Pwi Avg|Hold: 100/100 **Auto Tune** Mkr3 2.483 625 GHz -53.623 dBm Ref 20.00 dBm Center Freq 2.487500000 GHz Start Fred 2.475000000 GHz Stop Freq 2.500000000 GHz Stop 2.50000 GHz Sweep 2.400 ms (1001 pts) Start 2.47500 GHz #Res BW 100 kHz **CF Step** #VBW 300 kHz 2.500000 MH <u>Auto</u> **Freq Offset** STATUS

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## $\pi$ /4-DQPSK MODULATION IN LOW CHANNEL Hopping off

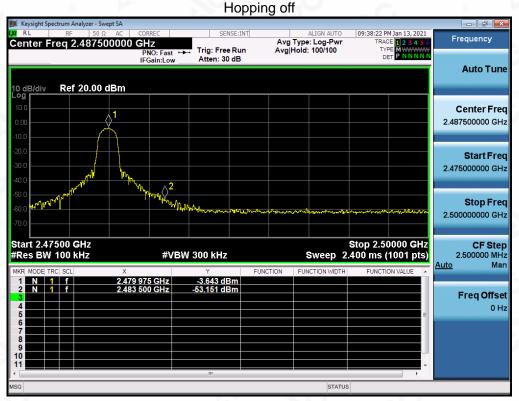


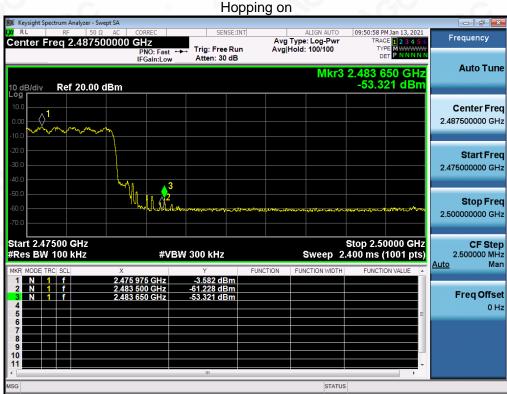


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## $\pi$ /4-DQPSK MODULATION IN HIGH CHANNEL

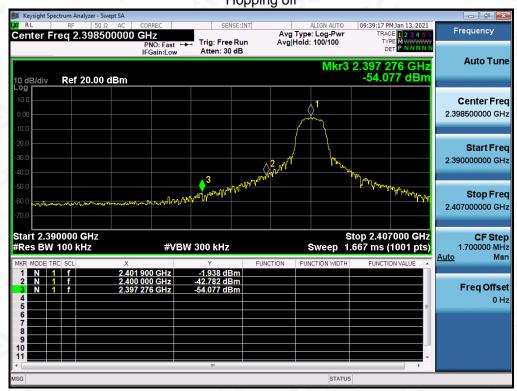




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# 8-DPSK MODULATION IN LOW CHANNEL Hopping off

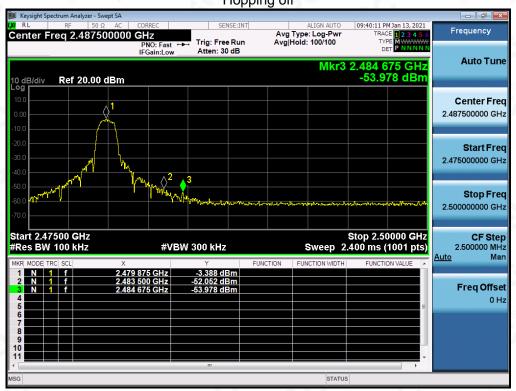


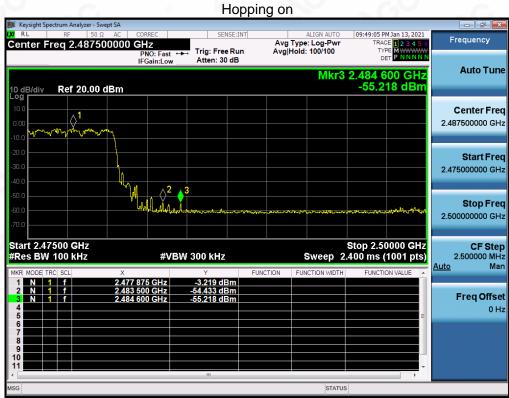


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# 8-DPSK MODULATION IN HIGH CHANNEL Hopping off





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## 10. RADIATED EMISSION

#### 10.1. MEASUREMENT PROCEDURE

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

Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/3MHz for Average

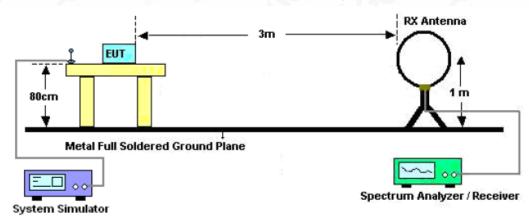
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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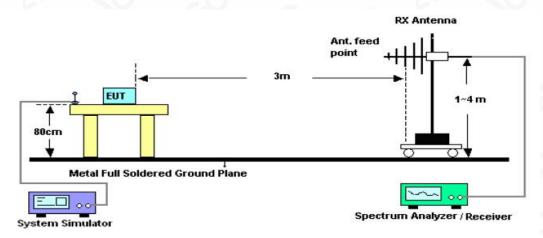


## 10.2. TEST SETUP

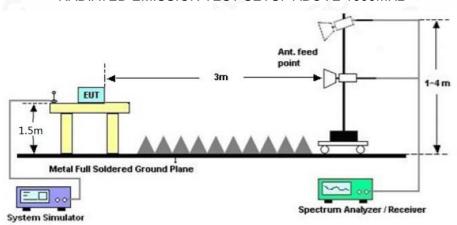
## Radiated Emission Test-Setup Frequency Below 30MHz



## RADIATED EMISSION TEST SETUP 30MHz-1000MHz



## RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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## 10.3. 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.

## 10.4. TEST RESULT

## **RADIATED EMISSION BELOW 30MHz**

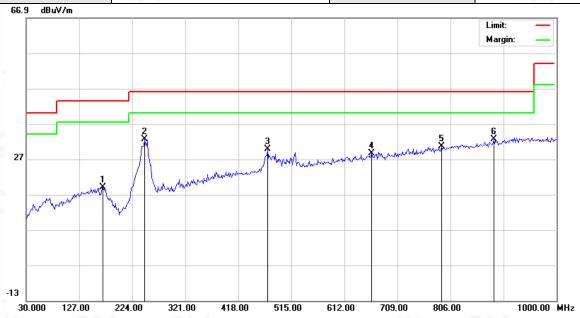
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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## **RADIATED EMISSION BELOW 1GHz**

EUT	Rewind Wireless Headphones	Model Name	Rewind Wireless
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal



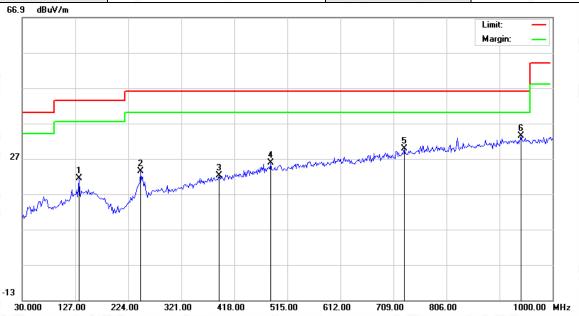
No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		170.6500	0.93	18.09	19.02	43.50	-24.48	peak
2	*	246.6333	14.08	18.54	32.62	46.00	-13.38	peak
3		471.3500	5.46	24.41	29.87	46.00	-16.13	peak
4		662.1167	0.84	27.70	28.54	46.00	-17.46	peak
5		789.8333	0.40	30.18	30.58	46.00	-15.42	peak
6		885.2167	1.04	31.51	32.55	46.00	-13.45	peak

**RESULT: PASS** 

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EUT	Rewind Wireless Headphones	Model Name	Rewind Wireless
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		133.4667	2.65	18.82	21.47	43.50	-22.03	peak
2		246.6333	4.90	18.54	23.44	46.00	-22.56	peak
3		390.5167	-0.52	22.65	22.13	46.00	-23.87	peak
4		484.2833	1.07	24.67	25.74	46.00	-20.26	peak
5		728.4000	1.01	28.79	29.80	46.00	-16.20	peak
6	*	941.8000	1.25	32.06	33.31	46.00	-12.69	peak

## **RESULT: PASS**

Note: 1. Factor=Antenna Factor + Cable loss, Over= Measurement -Limit.

2. All test modes had been pre-tested. The mode 7 is the worst case and recorded in the report.

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c/Inspection
The test results
the test report.

## **RADIATED EMISSION ABOVE 1GHz**

EUT	Rewind Wireless Headphones	Model Name	Rewind Wireless
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	45.87	0.08	45.95	74	-28.05	peak
4804.000	37.65	0.08	37.73	54	-16.27	AVG
7206.000	40.74	2.21	42.95	74	-31.05	peak
7206.000	32.58	2.21	34.79	54	-19.21	AVG
6	.C			-64	20	
Remark:			8			700
actor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier.	8		

EUT	Rewind Wireless Headphones	Model Name	Rewind Wireless
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
44.62	0.08	44.7	74	-29.3	peak
36.35	0.08	36.43	54	-17.57	AVG
39.41	2.21	41.62	74	-32.38	peak
30.47	2.21	32.68	54	-21.32	AVG
-6	•		3	,C	
	(dBµV) 44.62 36.35 39.41	(dBµV) (dB) 44.62 0.08 36.35 0.08 39.41 2.21	(dBμV)     (dB)     (dBμV/m)       44.62     0.08     44.7       36.35     0.08     36.43       39.41     2.21     41.62	(dBμV)     (dB)     (dBμV/m)     (dBμV/m)       44.62     0.08     44.7     74       36.35     0.08     36.43     54       39.41     2.21     41.62     74	(dBμV)     (dB)     (dBμV/m)     (dBμV/m)     (dBμV/m)       44.62     0.08     44.7     74     -29.3       36.35     0.08     36.43     54     -17.57       39.41     2.21     41.62     74     -32.38

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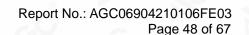
EUT	Rewind Wireless Headphones	Model Name	Rewind Wireless
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 8	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4882.000	45.76	0.14	45.9	74	-28.1	peak
4882.000	38.64	0.14	38.78	54	-15.22	AVG
7323.000	41.63	2.36	43.99	74	-30.01	peak
7323.000	34.51	2.36	36.87	54	-17.13	AVG
8				(8)		
	©				@	
Remark:	- 6	8			-6	8
actor = Anter	nna Factor + Cable	Loss – Pre-	amplifier.		10	a.C

EUT	Rewind Wireless Headphones	Model Name	Rewind Wireless
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 8	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
	J					Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4882.000	45.94	0.14	46.08	74	-27.92	peak
4882.000	37.81	0.14	37.95	54	-16.05	AVG
7323.000	40.56	2.36	42.92	74	-31.08	peak
7323.000	31.43	2.36	33.79	54	-20.21	AVG
(8)						
- G	(8)					@
emark:	-C					
ctor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier.			

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EUT	Rewind Wireless Headphones	Model Name	Rewind Wireless
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	46.56	0.22	46.78	74	-27.22	peak
4960.000	38.41	0.22	38.63	54	-15.37	AVG
7440.000	41.32	2.64	43.96	74	-30.04	peak
7440.000	32.57	2.64	35.21	54	-18.79	AVG
0		_ (	-	©		
	8				(8)	
emark:	- G	©			- 0	8
actor = Anter	na Factor + Cable	Loss – Pre-	-amplifier.			

EUT	Rewind Wireless Headphones	Model Name	Rewind Wireless
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Vertical

Value Type
neak
peak
AVG
peak
AVG

## **RESULT: PASS**

#### Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Level-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been tested. The 8DPSK modulation is the worst case and recorded in the report.

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