

FCC Test Report

Report No.: AGC01121190302FE03

FCC ID : 2ALXDAFT1R

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION : Wireless Bluetooth Headphones

BRAND NAME : Audiofly

MODEL NAME : AFT1

CLIENT : Audiofly Pty Ltd

DATE OF ISSUE : May 10,2019

STANDARD(S) : FCC Part 15.247

REPORT VERSION: V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		May 10,2019	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Audiofly Pty Ltd			
Address	1/71, TROY TCE, JOLIMONT, WA 6014, AUSTRALIA			
Manufacturer	GUANGZHOU SUN YOUNG ELECTRONICS CO.,LTD			
Address	No. 158, Dayu Road, Dongchong Town, Nansha District, Guangzhou City, China			
Factory	GUANGZHOU SUN YOUNG ELECTRONICS CO.,LTD			
Address	No. 158, Dayu Road, Dongchong Town, Nansha District, Guangzhou City, China			
Product Designation	Wireless Bluetooth Headphones			
Brand Name	Audiofly			
Test Model	AFT1			
Date of test	Apr. 03, 2019 to May 09, 2019			
Deviation	None San Market Company of the Compa			
Condition of Test Sample	Normal State of the Control of the C			
Test Result	Pass 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.

Tested By	Er.k Yeng	
	Erik Yang(Yang Jianmin)	May 09, 2019
Reviewed By	Max Zhang	
	Max Zhang(Zhang Yi)	May 10, 2019
Approved By	Forrest Wi	
	Forrest Lei(Lei Yonggang) Authorized Officer	May 10, 2019

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Wireless Bluetooth 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

7 major teerimear accomption	n of Eo i is described as following
Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	6.417dBm(Max)
Bluetooth Version	V 4.2
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps
Number of channels	79
Hardware Version	V1.0
Software Version	V4.2
Antenna Designation	Ceramic Antenna(Comply with requirements of the FCC part 15.203)
Antenna Gain	1.5dBi
Power Supply	DC 3.7V by battery

Note: The EUT comprises left and right channel headphone and both have been tested. This report is only applicable for right headphone.

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
The Marine	The Company of the State of the	2402MHZ
© Attestation of Clobs	1 1	2403MHZ
GC SGC		1 Mills of the state of the sta
11	38	2440 MHZ
2402~2480MHZ	39 - 0	2441 MHZ
	40	2442 MHZ
		E TAMES OF THE PARTY OF THE PAR
The Marianes	77 CO	2479 MHZ
3 Martin od Godna	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 79 hopping sequence in data mode: 40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67 56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59 72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75 09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06 01, 51, 03, 55, 05, 04

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 ehavior zation with other units only offset are 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 bit 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 te Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following ehavior:

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. 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.

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

This submittal(s) (test report) is intended for **FCC ID: 2ALXDAFT1R** 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.

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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 = ±3.2 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 = ±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
版 指	Low channel GFSK
© 2	Middle channel GFSK
GO 3	High channel GFSK
4	Low channel π/4-DQPSK
8 4 1 8 8 8 8	Middle channel π/4-DQPSK
6-0	High channel π/4-DQPSK
7	Low channel 8DPSK
8 Francisco	Middle channel 8DPSK
9 American	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.



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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:

EUT	

5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1 ©	Wireless Bluetooth Headphones	AFT1	2ALXDAFT1R	EUT

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(1)	Peak Output Power	Compliant
15.247 (a)(1)	20 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.209	Radiated Emission	Compliant
15.247 (a)(1)(iii)	Number of Hopping Frequency	Compliant
15.247 (a)(1)(iii)	Time of Occupancy	Compliant
15.247 (a)(1)	Frequency Separation	Compliant
15.207	Conducted Emission	N/A

NOTE: N/A stands for not applicable. The device 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	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

	2 10 001	20 1 10	7,116	4		
Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due	
TEST RECEIVER	R&S	ESCI	10096	Jun. 12, 2018	Jun. 11, 2019	
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019	
2.4GHz Fliter	Micro-tronics	087	N/A	Jun. 12, 2018	Jun. 11, 2019	
Attenuator	Weinachel Corp	58-30-33	N/A	Jun. 12, 2018	Jun. 11, 2019	
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020	
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020	
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020	
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 25, 2018	Oct. 24, 2019	
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 28, 2017	Sep. 27, 2019	

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

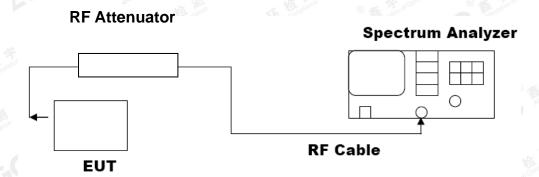
For peak power test:

- 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						
Frequency (GHz) Peak Power Applicable Limits (dBm) Pass or Fa						
2.402	4.803	30	Pass			
2.441	4.861	30	Pass			
2.480	4.199	30	Pass			

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PEAK OUTPUT POWER MEASUREMENT RESULT							
	FOR Π /4-DQPSK MODU	LATION					
Frequency (GHz)	Applicable Limits (dBm)	Pass or Fail					
2.402	6.134	30	Pass				
2.441	5.900	30	Pass				
2.480	5.260	30	Pass				

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PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8-DPSK MODULATION							
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail				
2.402	6.417	30	Pass				
2.441	6.307	® 30	Pass				
2.480	5.633	30	Pass				

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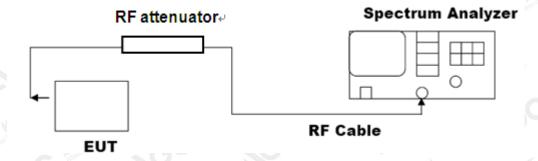
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8. 20DB BANDWIDTH

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)



8.3. LIMITS AND MEASUREMENT RESULTS

MEASUREMENT RESULT FOR GFSK MOUDULATION							
Measurement Result							
Applicable Limits	Test Da	Criteria					
The State Country of the State Country	Low Channel	1.034	PASS				
N/A	Middle Channel	1.029	PASS				
Go So	High Channel	1.011	PASS				

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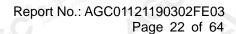
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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MEASUREMENT RESULT FORΠ /4-DQPSK MODULATION							
Measurement Result							
Applicable Limits	Test Data	Test Data (MHz)					
GU	Low Channel	1.286	PASS				
N/A	Middle Channel	1.286	PASS				
	High Channel	1.293	PASS				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



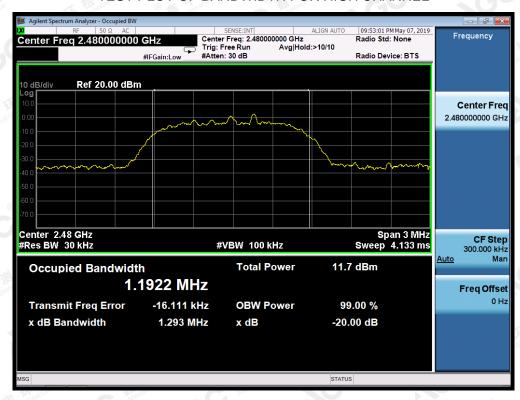
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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 MEASUREMENT RESULT FOR 8-DPSK MODULATION

 Measurement Result

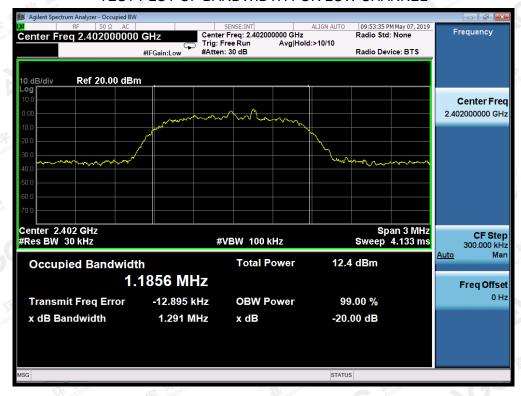
 Test Data (MHz)
 Criteria

 Low Channel
 1.291
 PASS

 Middle Channel
 1.293
 PASS

 High Channel
 1.291
 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 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							
Annilo al la Limita	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	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS					
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. 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 in§15.209(a))	At least -20dBc than the limit Specified on the TOP Channel	PASS					

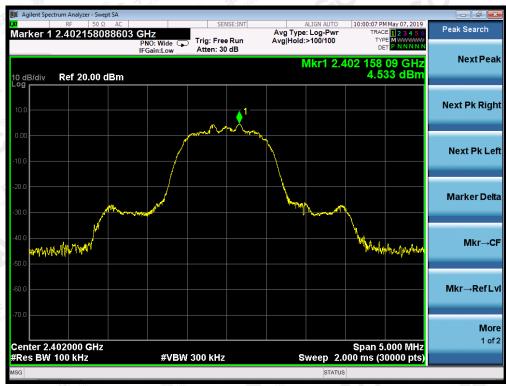
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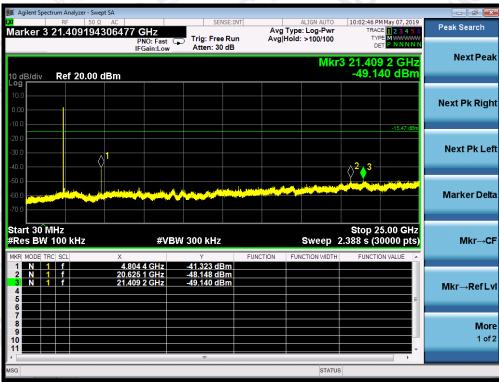
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TEST RESULT FOR ENTIRE FREQUENCY RANGE

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





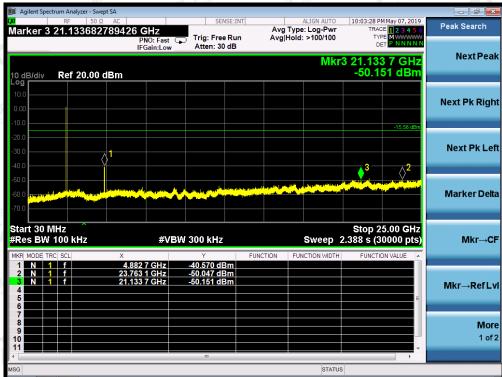
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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN MIDDLE CHANNEL

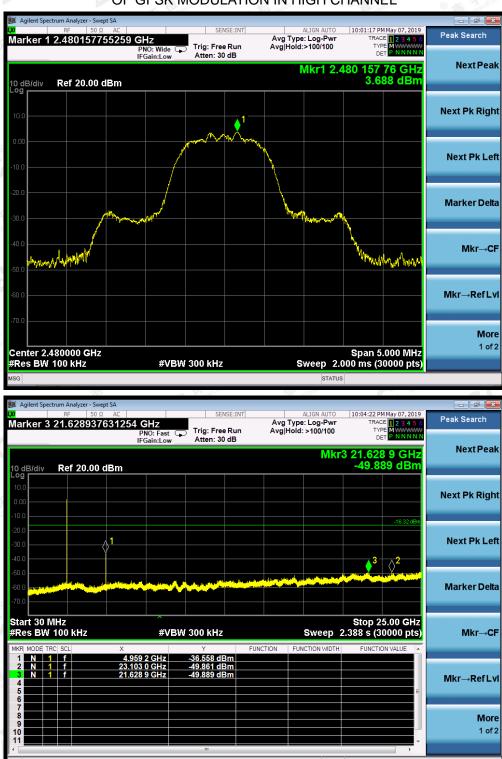




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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN HIGH CHANNEL



Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit. The GFSK modulation is the worst case and only those data recorded in the report.

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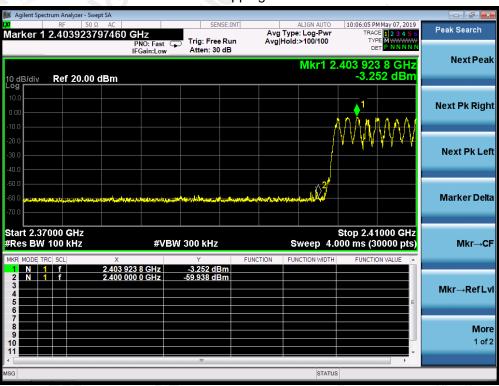


TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL Hopping off



Hopping on

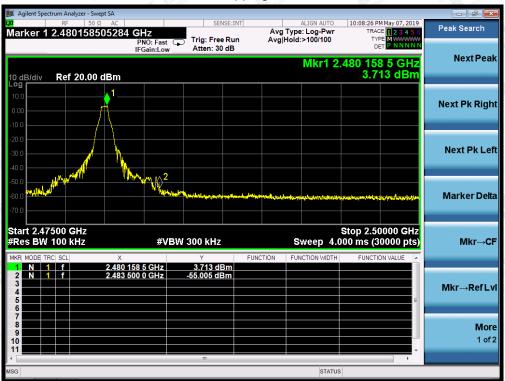


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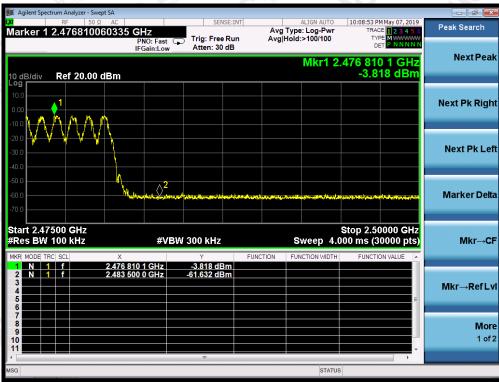
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GFSK MODULATION IN HIGH CHANNEL Hopping off



Hopping on



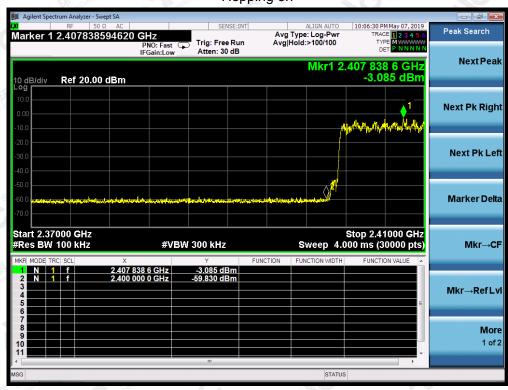
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π /4-DQPSK MODULATION IN LOW CHANNEL Hopping off



Hopping on



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π /4-DQPSK MODULATION IN HIGH CHANNEL Hopping off



Hopping on



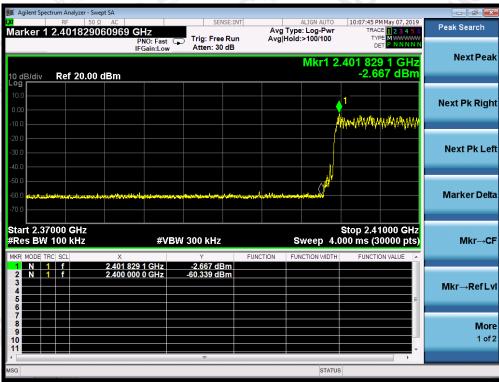
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8-DPSK MODULATION IN LOW CHANNEL Hopping off



Hopping on



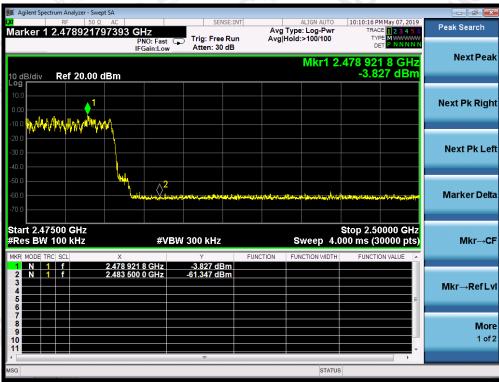
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8-DPSK MODULATION IN HIGH CHANNEL Hopping off



Hopping on



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10. RADIATED EMISSION

10.1. 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.
- 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 emissions, 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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The following table is the setting of spectrum analyzer and receiver.

	Spectrum Parameter	Setting
A Complete	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
© The state of the	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
CO	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

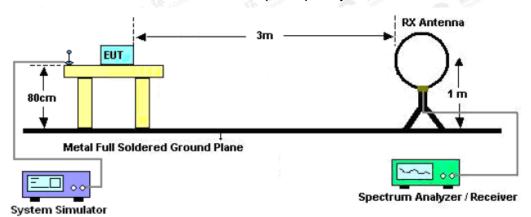
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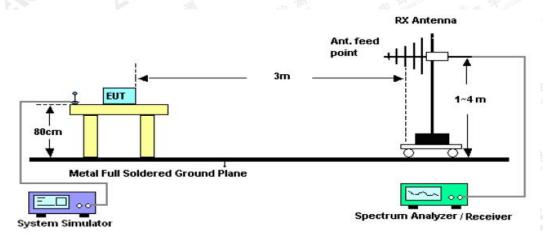


10.2. TEST SETUP

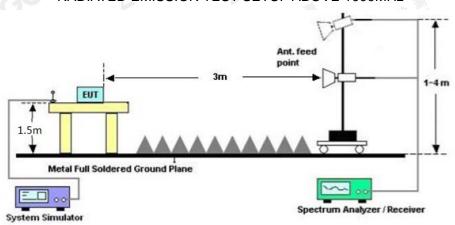
Radiated Emission Test-Setup Frequency Below 30MHz



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 (micorvolts/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	The state of the s
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

No emission found between lowest internal used/generated frequencies to 30MHz.

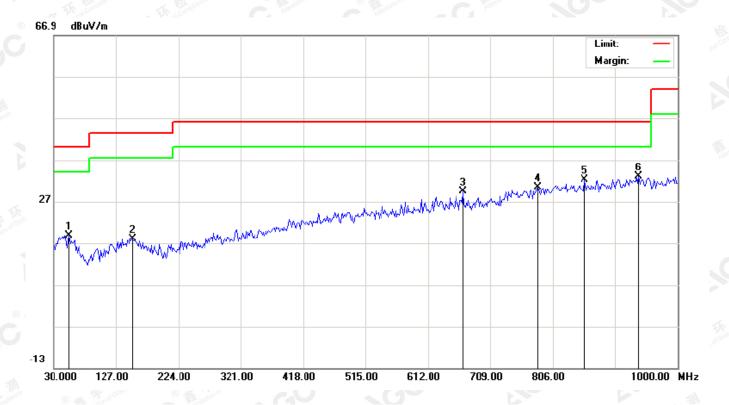
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RADIATED EMISSION BELOW 1GHZ

EUT	Wireless Bluetooth Headphones	Model Name	AFT1
Temperature	25.2°C	Relative Humidity	55.5%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	•	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		54.2500	-0.53	19.36	18.83	40.00	-21.17	peak			
2		152.8667	-1.24	19.20	17.96	43.50	-25.54	peak			
3		666.9667	1.57	27.75	29.32	46.00	-16.68	peak			
4		783.3667	0.29	30.03	30.32	46.00	-15.68	peak			
5		856.1167	1.14	31.13	32.27	46.00	-13.73	peak			
6	*	940.1833	0.87	32.05	32.92	46.00	-13.08	peak			_

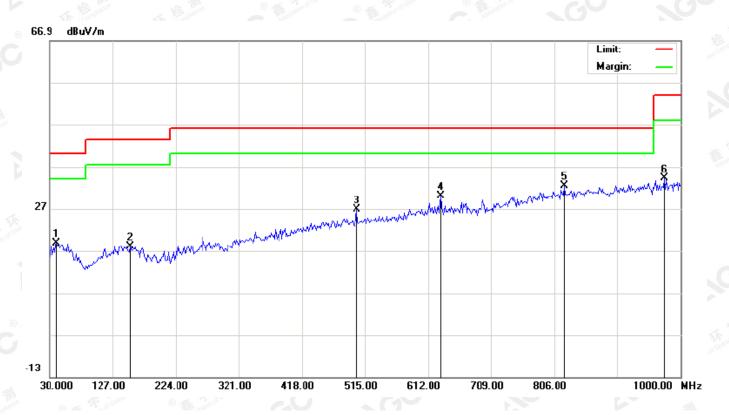
RESULT: PASS

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EUT	Wireless Bluetooth Headphones	Model Name	AFT1
Temperature	25.2°C	Relative Humidity	55.5%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		41.3167	-1.20	20.04	18.84	40.00	-21.16	peak			
2		154.4833	-1.19	19.20	18.01	43.50	-25.49	peak			
3		502.0667	1.76	25.03	26.79	46.00	-19.21	peak			
4		631.4000	2.68	27.33	30.01	46.00	-15.99	peak			
5	*	822.1667	1.70	30.70	32.40	46.00	-13.60	peak			
6		975.7500	1.77	32.35	34.12	54.00	-19.88	peak			

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=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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RADIATED EMISSION ABOVE 1GHZ

EUT	Wireless Bluetooth Headphones	Model Name	AFT1
Temperature	25.2°C	Relative Humidity	55.5%
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
4804.022	51.44	0.08	51.52	74.00	-22.48	peak
4804.022	48.01	0.08	48.09	54.00	-5.91	AVG
7206.033	42.73	2.21	44.94	74.00	-29.06	peak
7206.033	38.82	2.21	41.03	54.00	-12.97	AVG
-C	Allesto	20"			Mir	III;
					Impliance	Compilar.

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT	Wireless Bluetooth Headphones	Model Name	AFT1
Temperature	25.2°C	Relative Humidity	55.5%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4804.022	51.48	0.08	51.56	74.00	-22.44	peak
4804.022	48.05	0.08	48.13	54.00	-5.87	AVG
7206.033	42.75	2.21	44.96	74.00	-29.04	peak
7206.033	38.84	2.21	41.05	54.00	-12.95	AVG
000	Alles				100	
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Factor = Antenna Factor + Cable Loss - Pre-amplifier.

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Alle			
EUT	Wireless Bluetooth Headphones	Model Name	AFT1
Temperature	25.2°C	Relative Humidity	55.5%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 8	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Ture
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4882.022	50.75	0.14	50.89	74.00	-23.11	peak
4882.022	46.55	0.14	46.69	54.00	-7.31	AVG
7323.033	47.61	2.36	49.97	74.00	-24.03	peak
7323.033	44.78	2.36	47.14	54.00	-6.86	AVG
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			-ail	- Tr 1	Impliance	F Compile
emark:						

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT	Wireless Bluetooth Headphones	Model Name	AFT1
Temperature	25.2°C	Relative Humidity	55.5%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 8	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4882.022	50.76	0.14	50.90	74.00	-23.10	peak
4882.022	46.59	0.14	46.73	54.00	-7.27	AVG
7323.033	47.62	2.36	49.98	74.00	-24.02	peak
7323.033	44.81	2.36	47.17	54.00	-6.83	AVG
				THE SAL	HE THE	0 # F
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Factor = Antenna Factor + Cable Loss - Pre-amplifier.

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EUT	Wireless Bluetooth Headphones	Model Name	AFT1
Temperature	25.2°C	Relative Humidity	55.5%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Ture
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.022	50.35	0.22	50.57	74.00	-23.43	peak
4960.022	46.50	0.22	46.72	54.00	-7.28	AVG
7440.033	46.16	2.64	48.80	74.00	-25.20	peak
7440.033	42.60	2.64	45.24	54.00	-8.76	AVG
-C	Allest	20			100	LE FILL
			-111	The K	mplance	Final Compile.
Remark:						

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT	Wireless Bluetooth Headphones	Model Name	AFT1
Temperature	25.2°C	Relative Humidity	55.5%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4960.022	50.39	0.22	50.61	74.00	-23.39	peak
4960.022	46.52	0.22	46.74	54.00	-7.26	AVG
7440.033	46.20	2.64	48.84	74.00	-25.16	peak
7440.033	42.64	2.64	45.28	54.00	-8.72	AVG
				ALL SU	WE THE	(A A A
			TIME -	The Complian		Allestallo
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Factor = Antenna Factor + Cable Loss - Pre-amplifier.

RESULT: PASS

Note: Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report. Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Emission Level-Limit.

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

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

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