

# **FCC Test Report**

Report No.: AGC00275190504FE03

FCC ID : 2AB9SV6

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION**: True Wireless Stereo Earbuds

**BRAND NAME** : YINKO JONTER POWER LOCUS, BUGANI, MOVONE

**MODEL NAME** : V6, PLX2, BUGANI Pro 1, MOVONE V6

**APPLICANT**: Shenzhen Jonter Digital Co., Ltd

**DATE OF ISSUE** : Jun. 27, 2019

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

**REPORT VERSION**: V1.0

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## REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jun. 27, 2019	Valid	Initial Release



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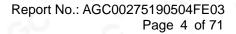
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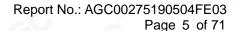


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#### 1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen Jonter Digital Co., Ltd		
Address	Floor 3, Building 4, Jinfo Industrial Park, Hezhou Village Hangcheng Street, Bao'an District, Shenzhen, China		
Manufacturer	Shenzhen Jonter Digital Co., Ltd		
Address	Floor 3, Building 4, Jinfo Industrial Park, Hezhou Village Hangcheng Street, Bao'an District, Shenzhen, China		
Factory	Dongguan Jonter Digital Co., Ltd		
Address	Number 5, Daguizi Street, chashan Town, Dongguanshi, China		
Product Designation	True Wireless Stereo Earbuds		
Brand Name	YINKO JONTER POWER LOCUS, BUGANI, MOVONE		
Test Model	Model V6		
Series Model	PLX2, BUGANi Pro 1, MOVONE V6		
All the same except for the model name and brand name (YINKO JONTER POWER LOCUS corresponds to V6 and PLX2, BUGANi corresponds to BUGANi Pro 1, MOVONE corresponds to MOVONE V6)			
Date of test	Jun. 06, 2019 to Jun. 25, 2019		
Deviation	None		
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.

> Theo Huang Tested By Jun. 25, 2019 Thea Huang(Huang Qianqian) Max Zhang Reviewed By Max Zhang(Zhang Yi) Jun. 26, 2019 Forrest Un Approved By Forrest Lei(Lei Yonggang) Jun. 26, 2019 **Authorized Officer**



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#### 2. GENERAL INFORMATION

## 2.1. PRODUCT DESCRIPTION

The EUT is designed as "True Wireless Stereo Earbuds". 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 2.480GHz
RF Output Power	-0.751dBm(Max)
Bluetooth Version	V5.0
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps
Number of channels	79
Hardware Version	V3.0
Software Version	V2.2
Antenna Designation	FPC Antenna(Comply with requirements of the FCC part 15.203)
Antenna Gain	2.28dBi
Power Supply	DC 3.7V by battery
Note: The EUT comprises	left and right channel headsets, both are the same and have been tested. Only the

test data of left headset recorded in this report.

#### 2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	
	0	2402MHZ	
20° 20°	1	2403MHZ	
100			
-C	38	2440 MHZ	
2402~2480MHZ	39	2441 MHZ	
	40	2442 MHZ	
-C	77	2479 MHZ	
100	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 multislot 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

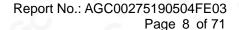
The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For ehavior zation with other units only offset are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock 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: 2AB9SV6 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.

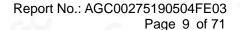
#### 2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

#### 2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.







#### 3. MEASUREMENT UNCERTAINTY

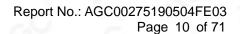
The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- 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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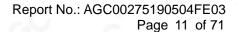
## 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION		
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		

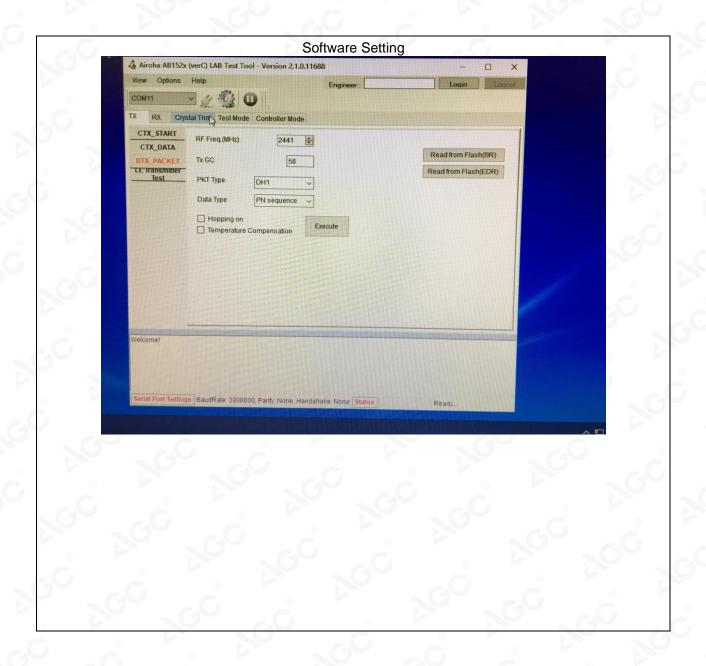
**Note:**1. Only the result of the worst case was recorded in the report, if no other cases.

- 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.











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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	True Wireless Stereo Earbuds	V6	2AB9SV6	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: The EUT not can use the BT function with charging.



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## 6. TEST FACILITY

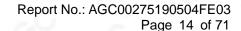
Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd			
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China			
Designation Number	CN1259			
FCC Test Firm Registration Number	975832			
A2LA Cert. No.	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	Jun. 12, 2019	Jun. 11, 2020
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Feb. 27, 2019	Feb. 26, 2020
Attenuator	ZHINAN	E-002	N/A	Aug. 28, 2018	Aug. 27, 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

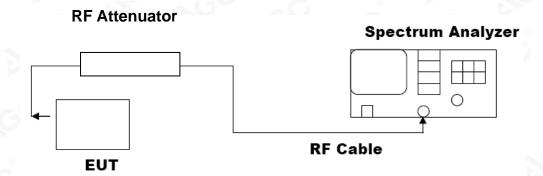
For peak power test:

- 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)

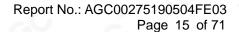
#### **PEAK POWER TEST SETUP**





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## 7.3. LIMITS AND MEASUREMENT RESULT

	PEAK OUTPUT POWER MEA		
FOR GFSK MOUDULATION  Fraguency  Applicable Limits			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	-1.320	30	Pass
2.441	-1.485	30	Pass
2.480	-2.284	30	Pass

CH<sub>0</sub>







#### **CH39**



#### **CH78**



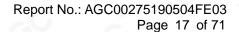


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PEAK OUTPUT POWER MEASUREMENT RESULT FOR $ \Pi $ /4-DQPSK MODULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	-0.875	30	Pass
2.441	-1.172	30	Pass
2.480	-1.980	30	Pass

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







#### **CH39**



#### **CH78**



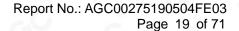


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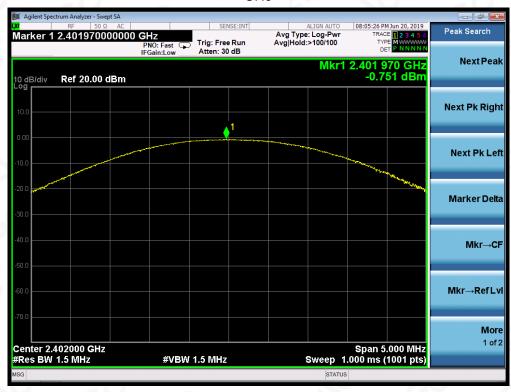
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PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8DPSK MODULATION **Frequency Applicable Limits Peak Power** Pass or Fail (dBm) (GHz) (dBm) -0.7512.402 30 **Pass** 2.441 -1.07930 Pass -1.89630 2.480 **Pass** 

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







#### **CH39**



#### **CH78**





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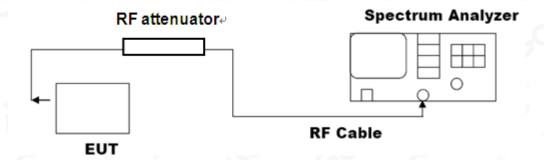
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#### 8. 20DB BANDWIDTH

#### **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**

MEASUF	REMENT RESULT FOR GF	SK MOUDULATION		
A multipolate to time to	Measurement Result			
Applicable Limits	Test Data (MHz)		Criteria	
N/A	Low Channel	0.9230	PASS	
	Middle Channel	0.9225	PASS	
	High Channel	0.9281	PASS	



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#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL





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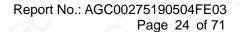
#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





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MEASUREMENT RESULT FOR ∏ /4-DQPSK MODULATION				
A collection thanks	Measurement Result			
Applicable Limits	Test Data	(MHz)	Criteria	
N/A	Low Channel	1.245	PASS	
	Middle Channel	1.260	PASS	
	High Channel	1.263	PASS	

#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL







#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

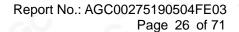




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MEASUREMENT RESULT FOR 8DPSK MODULATION				
Applicable Limits	Measurement Result			
	Test Data	(MHz)	Criteria	
N/A	Low Channel	1.257	PASS	
	Middle Channel	1.297	PASS	
	High Channel	1.280	PASS	

#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



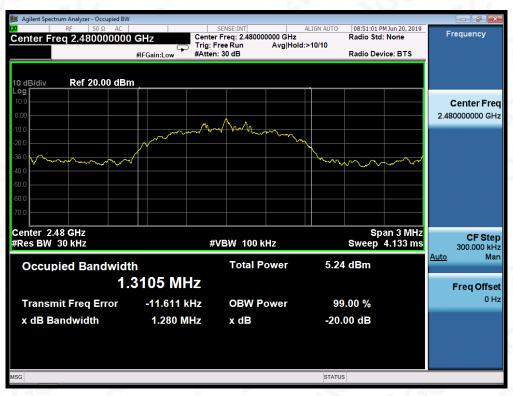




#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



#### 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

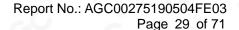
The same as described in section 6

#### 9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT				
Annihadda Limita	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 Channel	PASS		
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. 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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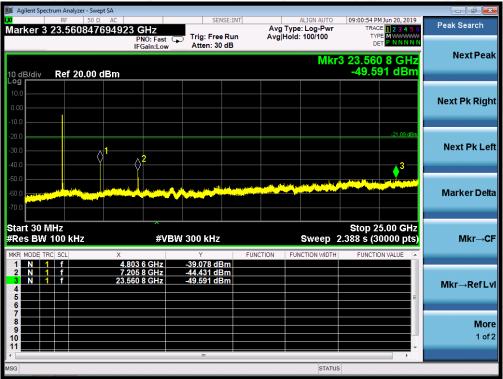




#### **TEST RESULT FOR ENTIRE FREQUENCY RANGE**

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







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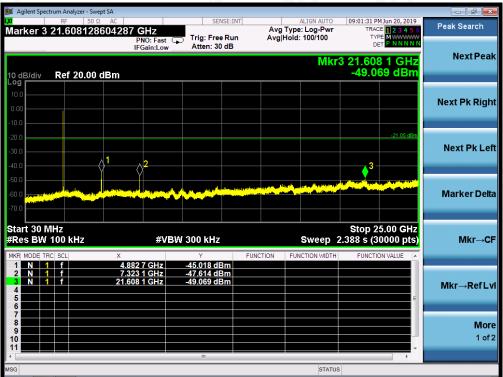
Xixiang, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com

E-mail: agc@agc-cert.com Service Hotline: 400 089 2118



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







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Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,

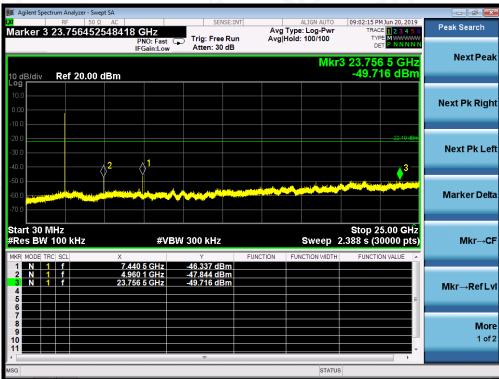
Xixiang, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com

E-mail: agc@agc-cert.com Service Hotline: 400 089 2118



## TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK 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 8DPSK modulation is the worst case and only those data recorded in the report.



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E-mail:agc@agc-cert.com Service Hotline: 400 089 2118

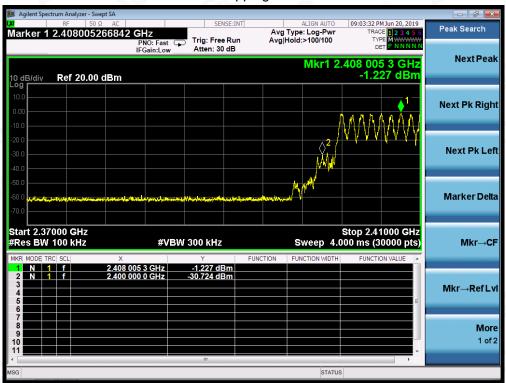


#### **TEST RESULT FOR BAND EDGE**

## GFSK MODULATION IN LOW CHANNEL Hopping off



#### Hopping on





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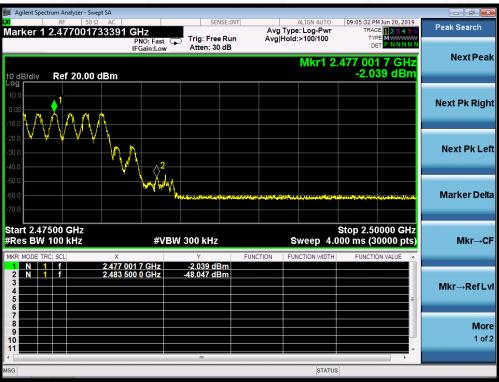
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## GFSK MODULATION IN HIGH CHANNEL Hopping off



#### Hopping on





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



#### Hopping on





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



## Hopping on





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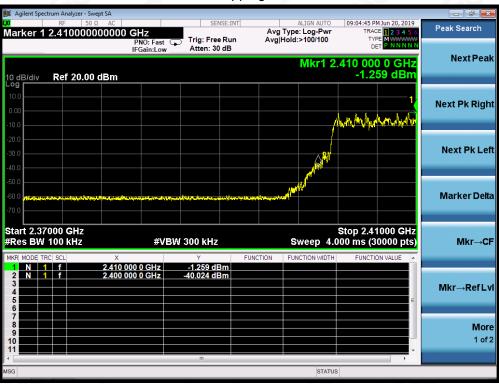
Add: 2/F., Building 2, No.1-4, Chaxi Sanwei Technial Industrial Park, Gushu,



## 8DPSK DQPSK MODULATION IN LOW CHANNEL Hopping off



#### Hopping on





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# 8DPSK MODULATION IN HIGH CHANNEL Hopping off



### Hopping on





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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.
- 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.
- 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

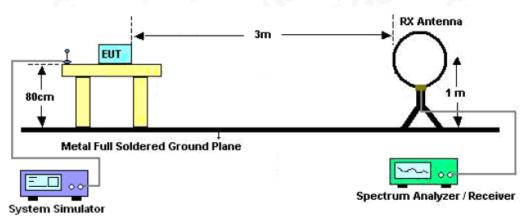


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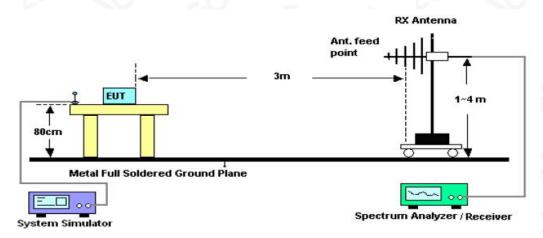


#### 10.2. TEST SETUP

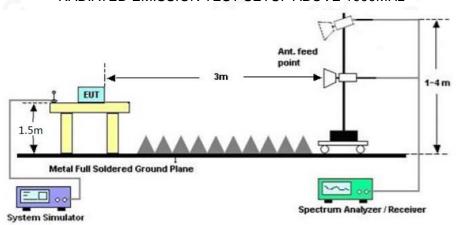
## Radiated Emission Test-Setup Frequency Below 30MHz



#### 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 (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	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**

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



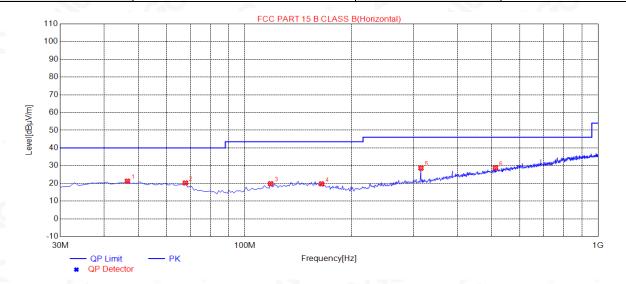
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**RADIATED EMISSION BELOW 1GHZ** 

EUT	True Wireless Stereo Earbuds	Model Name	V6
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal



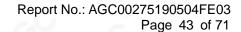
NO.	Freq.	Level	Factor	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dBµV/m]	[dB]	[dBuV/m]	[dB]	[cm]	[°]	Folanty
1	46.4900	21.25	14.77	40.00	18.75	100	60	Horizontal
2	67.8300	20.21	12.59	40.00	19.79	200	210	Horizontal
3	118.2700	19.82	13.29	43.50	23.68	200	290	Horizontal
4	164.8300	19.75	14.45	43.50	23.75	100	30	Horizontal
5	315.1800	28.61	16.48	46.00	17.39	150	350	Horizontal
6	512.0900	28.80	22.42	46.00	17.20	150	80	Horizontal

**RESULT: PASS** 



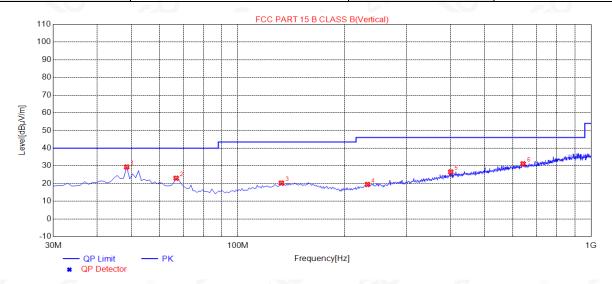
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EUT	True Wireless Stereo Earbuds	Model Name	V6
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical



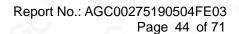
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4300	29.35	14.71	40.00	10.65	200	10	Vertical
2	66.8600	23.01	12.76	40.00	16.99	100	70	Vertical
3	132.8200	20.29	14.35	43.50	23.21	100	10	Vertical
4	232.7300	19.48	14.25	46.00	26.52	100	320	Vertical
5	400.5400	26.54	19.81	46.00	19.46	150	210	Vertical
6	642.0700	31.16	24.99	46.00	14.84	200	120	Vertical

### **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.







**RADIATED EMISSION ABOVE 1GHZ** 

EUT	True Wireless Stereo Earbuds	Model Name	V6
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	47.52	0.08	47.6	74	-26.4	peak
4804.000	43.68	0.08	43.76	54	-10.24	AVG
7206.000	46.77	2.21	48.98	74	-25.02	peak
7206.000	42.78	2.21	44.99	54	-9.01	AVG
	7 60	, ,			100	7.0
emark:				0		
actor = Anter	na Factor + Cable	e Loss - Pre-	amplifier.			

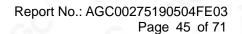
EUT	True Wireless Stereo Earbuds	Model Name	V6
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4804.000	47.33	0.08	47.41	74	-26.59	peak
4804.000	43.47	0.08	43.55	54	-10.45	AVG
7206.000	46.12	2.21	48.33	74	-25.67	peak
7206.000	42.46	2.21	44.67	54	-9.33	AVG
<u> </u>			60			
emark:	z.O				0	



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**EUT** 

EUT	True Wireless Stereo Earbuds	Model Name	V6
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	47.33	0.14	47.47	74	-26.53	peak
4882.000	41.66	0.14	41.8	54	-12.2	AVG
7323.000	45.76	2.36	48.12	74	-25.88	peak
7323.000	42.26	2.36	44.62	54	-9.38	AVG
	5				100	7.0
emark:				0		
actor = Anter	nna Factor + Cab	le Loss – Pre-	amplifier.		0	

<u> </u>	Ture Mineles	on Otaman I		Model Nev		1/0	C
	True Wireles	ss Stereo	Earbuds	Model Nar	ne	V6	

25°C **Relative Humidity** 55.4% **Temperature 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)	Value Type
4882.000	46.55	0.14	46.69	74	-27.31	peak
4882.000	41.98	0.14	42.12	54	-11.88	AVG
7323.000	44.65	2.36	47.01	74	-26.99	peak
7323.000	40.21	2.36	42.57	54	-11.43	AVG
0			-C			
G	0			.0		8
emark:						

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





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EUT	True Wireless Stereo Earbuds	Model Name	V6
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Horizontal

Meter Reading				~	
Weter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
45.78	0.22	46	74	-28	peak
40.78	0.22	41	54	-13	AVG
44.89	2.64	47.53	74	-26.47	peak
39.67	2.64	42.31	54	-11.69	AVG
.0			100	C	
		8			-60
	45.78 40.78 44.89 39.67	45.78 0.22 40.78 0.22 44.89 2.64 39.67 2.64	45.78     0.22     46       40.78     0.22     41       44.89     2.64     47.53	45.78     0.22     46     74       40.78     0.22     41     54       44.89     2.64     47.53     74       39.67     2.64     42.31     54	45.78         0.22         46         74         -28           40.78         0.22         41         54         -13           44.89         2.64         47.53         74         -26.47           39.67         2.64         42.31         54         -11.69

EUT	True Wireless Stereo Earbuds	Model Name	V6
Temperature	25°C	Relative Humidity	55.4%
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)	- value Type
4960.000	44.36	0.22	44.58	74	-29.42	peak
4960.000	39.58	0.22	39.8	54	-14.2	AVG
7440.000	43.45	2.64	46.09	74	-27.91	peak
7440.000	38.47	2.64	41.11	54	-12.89	AVG
mark:			160	- C	(e)	

## **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, Over=Measure-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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## TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	True Wireless Stereo Earbuds	Model Name	V6
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal

PK



ΑV

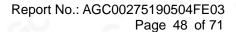


**RESULT: PASS** 



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EUT	True Wireless Stereo Earbuds	Model Name	V6
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

### PK



## AV

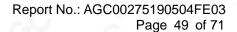


**RESULT: PASS** 



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EUT	True Wireless Stereo Earbuds	Model Name	V6
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Horizontal

### PK



## AV

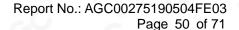


## **RESULT: PASS**



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EUT	True Wireless Stereo Earbuds	<b>Model Name</b>	V6
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Vertical

PK



ΑV



## **RESULT: PASS**

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F. All test modes had been pre-tested. The 8DPSK modulation is the worst case and recorded in the report.



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