

FCC Test Report

Report No.: AGC08328200305FE03

FCC ID	:	2AMH2-BH422A-1
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	True Wireless Earphone
BRAND NAME	÷	MPOW
MODEL NAME	:	BH422A
APPLICANT	6	MPOW TECHNOLOGY CO., LIMITED
DATE OF ISSUE	Ð	Apr. 14, 2020
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		Apr. 14, 2020	Valid	Initial Release



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1. VERIFICATION OF CONFORMITY

Applicant	MPOW TECHNOLOGY CO., LIMITED	
Address	FLAT/RM 605 6/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN STREET MONGKOK KL HONG KONG	
Manufacturer	Dongguan Koppo Electronics Co.,Ltd.	
Address	No.2 Road 3, Buxinji Industrial Area, Guanjingtou Village, Fenggang Town, Dongguan City, Guangdong Province, China	
Factory	Dongguan Koppo Electronics Co.,Ltd.	
Address	No.2 Road 3, Buxinji Industrial Area, Guanjingtou Village, Fenggang Town, Dongguan City, Guangdong Province, China	
Product Designation	True Wireless Earphone	
Brand Name	MPOW	
Test Model	BH422A	
Date of test	Mar. 26, 2020 to Apr. 11, 2020	
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

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Thea Huang Project Engineer

Apr. 11, 2020

Max Zhans

Reviewed By

Max Zhang Reviewer

Apr. 14, 2020

Approved By

Forrest Lei Authorized Officer

Apr. 14, 2020



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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "True Wireless Earphone". 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	-4.056dBm(Max)	
Bluetooth Version	V5.0	
Modulation	BR ⊠GFSK, EDR ⊠π /4-DQPSK, ⊠8DPSK BLE □GFSK 1Mbps □GFSK 2Mbps	
Number of channels	79 Channels	
Hardware Version	V.04	
Software Version	KUPO-813C-ota-gd-tws2-00-v106-20191203	
Antenna Designation	FPC Antenna(Comply with requirements of the FCC part 15.203)	
Antenna Gain	-0.2dBi	
Power Supply	DC 3.7V by battery	

Note: 1.The EUT doesn't support BLE.

2. The EUT comprises left and right channel earphone, both of them have been tested. The right earphone tested data recorded in this report.

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402MHZ
		2403MHZ
	38	2440 MHZ
2402~2480MHZ	39	2441 MHZ
	40	2442 MHZ
AGO NGC	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 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: 2AMH2-BH422A-1** 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 = ±3.1 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±4.0 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.0 dB
- Uncertainty of total RF power, conducted, $Uc = \pm 0.8$ dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %
- Uncertainty of Dwell Time: Uc = ± 2 %
- Uncertainty of Frequency: $Uc = \pm 2\%$



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4. DESCRIPTION OF TEST MODES

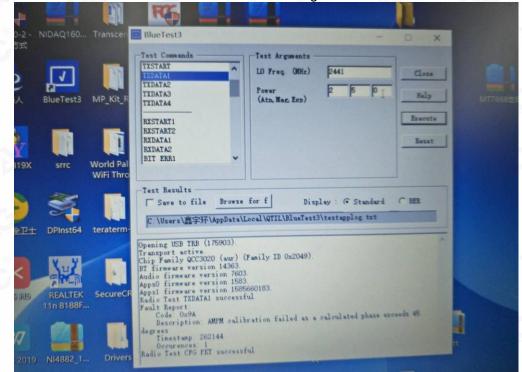
NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel π/4-DQPSK
5	Middle channel π/4-DQPSK
6	High channel π/4-DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	Hopping mode GFSK
11	Hopping mode π/4-DQPSK
12	Hopping mode 8DPSK

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

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

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

Software Setting





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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure :

EUT

Conducted Emission Configure :

	Ċ.	
EUT		AE

5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
13	True Wireless Earphone	BH422A	2AMH2-BH422A-1	EUT
2	Control Box	N/A	USB-TTL	AE

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 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 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. 12, 2019	Dec. 11, 2020
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Feb. 27, 2020	Feb. 26, 2021
Attenuator	ZHINAN	E-002	N/A	Sep. 09, 2019	Sep. 08, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 13, 2018	Jun. 12, 2020
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 17, 2018	May. 16, 2020
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	FARA	EZ-EMC (Ver RA-03A)	N/A	N/A	N/A



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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

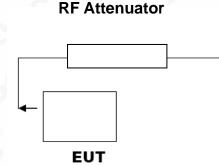
For peak power test:

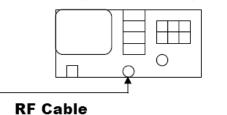
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 3. RBW > 20 dB bandwidth of the emission being measured.
- 4. VBW \geq RBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7.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





Spectrum Analyzer

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7.3. LIMITS AND MEASUREMENT RESULT

FOR GFSK MOUDULATION						
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail			
2.402	-6.305	30	Pass			
2.441	-7.428	30	Pass			
2.480	-7.977	30	Pass			

Peak Search Avg Type: Log-Pw Avg|Hold:>100/100 5000000 GHz Trig: Free Run Atten: 20 dB PNO: Fast 🖵 IFGain:Low Next Peak Mkr1 2.402 175 GH -6.305 dBm 10 dB/div Ref 10.00 dBm Next Pk Right **♦**¹ Next Pk Left Marker Delta Mkr→CF Mkr→RefLv More 1 of 2 Center 2.402000 GHz #Res BW 1.5 MHz Span 5.000 MHz 1.000 ms (1001 pts) #VBW 5.0 MHz Sweep

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CH0





CH78

RF 50 Ω AC arker 1 2.479910000000	GHZ PNO: East Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	02:51:18 PM Apr 09, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWWW	Peak Search
	PNO: Fast Trig: Free Run IFGain:Low Atten: 20 dB	Avginold.>100/100	DET P NNNNN	
dB/div Ref 10.00 dBm		Mkr1	2.479 910 GHz -7.977 dBm	Next Pe
				Next Pk Rig
.00	1			Hoxer aray
3.0				Next Pk L
0.0				NextPKL
0.0				
				MarkerDe
D.O				Mkr→
D.0				
0.0				Mkr→Ref
0.0				
				M d 1 d
enter 2.480000 GHz Res BW 1.5 MHz	#VBW 5.0 MHz	Sweep 1	Span 5.000 MHz .000 ms (1001 pts)	10
G		STATUS	·	



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PEAK OUTPUT POWER MEASUREMENT RESULT FOR II /4-DQPSK MODULATION					
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail		
2.402	-4.479	30	Pass		
2.441	-5.258	30	Pass		
2.480	-5.173	30	Pass		



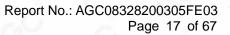




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	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P NNNNN		Avg Type: I Avg Hold:>	Free Run 1: 20 dB	Trig: Fre Atten: 2	PNO: Fast G		2.480100	
NextPea	80 100 GHz -5.173 dBm	Mkr1 2					0 dBm	Ref 10.00	dB/div
Next Pk Rig				1					00
Next Pk Le									1.0 1.0
Marker De									
Mkr→C									1.0
Mkr→RefL									1.0
Mo 1 of	pan 5.000 MHz							80000 GH	



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	FOR 8DPSK MOU	DULATION	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	-4.056	30	Pass
2.441	-4.715	30	Pass
2.480	-4.610	30	Pass





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ø Marker 1	RF 50 Ω AC 2.47998000000	0 GHz PNO: Fast ⊂ IFGain:Low	SENSE:INT Trig: Free Run Atten: 20 dB	ALIO Avg Type: Lo Avg Hold:>10	og-Pwr	41 PM Apr 09, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P NNNNN	Peak Search
0 dB/div	Ref 10.00 dBm				Mkr1 2.47	9 980 GHz 4.610 dBm	NextPea
).00 <u> </u>			11				Next Pk Rig
20.0							Next Pk Lo
0.0							Marker De
io.o							Mkr→
0.0							Mkr→RefL
	80000 GHz				Spa	n 5.000 MHz	M a 1 o
Center 2.4 #Res BW 1		#VBV	V 5.0 MHz	Sw	Spa reep 1.000 n	n 5.000 MHz ns (1001 pts)	



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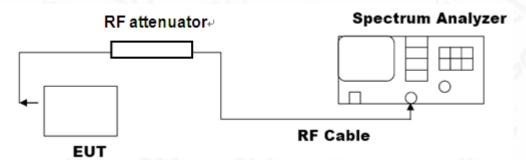


8. 20DB BANDWIDTH

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					
Appliachta Limita	Measurement Result				
Applicable Limits	Test Data	a (MHz)	Criteria		
F. 10 .00	Low Channel	0.9572	PASS		
N/A	Middle Channel	0.9568	PASS		
	High Channel	0.9567	PASS		





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 II /4-DQPSK MODULATION					
Annlinghla Limita		Measurement Resu	lt		
Applicable Limits	Test Data	(MHz)	Criteria		
	Low Channel	1.332	PASS		
N/A	Middle Channel	1.331	PASS		
	High Channel	1.330	PASS		

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

🚺 Keysight Spectrum Analyzer - Occupied BW					
Center Freq 2.402000000	CH-Z	SENSE:INT	ALIGN AUTO	02:54:52 PM Apr 09 Radio Std: None	
		g: Free Run	Avg Hold:>10/10		
	#IFGain:Low #At	ten: 10 dB		Radio Device: B	rs
15 dB/div Ref 10.00 dBm					
-5.00					Center Freq
-20.0		~~~~~	m		2.402000000 GHz
-35.0					2.402000000 8112
-50.0			\sim	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u>~</u>
-65.0					
-80.0					
-95.0					
-110					
-125					
Center 2.402 GHz				Span 3	MHZ
#Res BW 30 kHz		#VBW 100 kH	z	Sweep 4.13	ms CF Step
				•	Auto Man
Occupied Bandwidth	1	Total Po	wer -0.0	9 dBm	
1.2	124 MHz				Freq Offset
					0 Hz
Transmit Freq Error	-8.350 kHz	OBW Por	wer 9	9.00 %	0 112
x dB Bandwidth	1.332 MHz	x dB	-20	0.00 dB	
MSG			STAT	us	
			UIAI		



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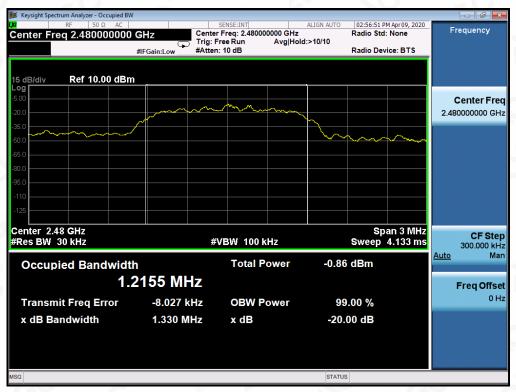
 Add:
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



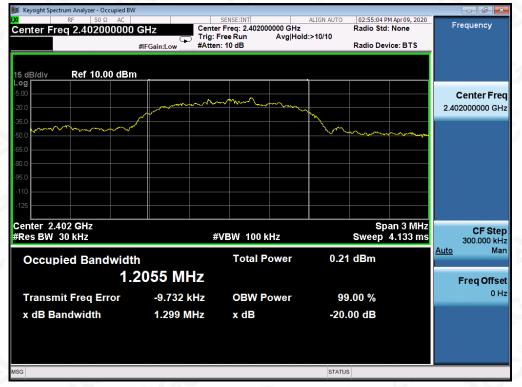


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MEASUREMENT RESULT FOR 8DPSK MODULATION						
Applicable Limita		Measurement Resu	lt			
Applicable Limits	Test Data	(MHz)	Criteria			
	Low Channel	1.299	PASS			
N/A	Middle Channel	1.298	PASS			
	High Channel	1.304	PASS			

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

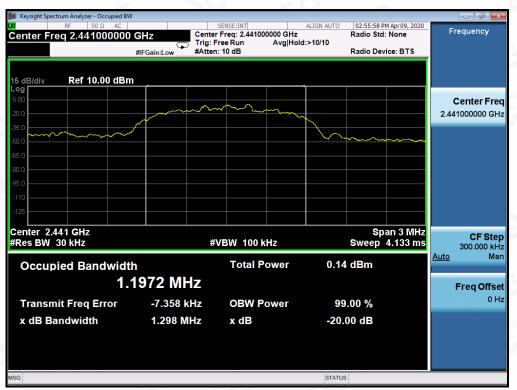




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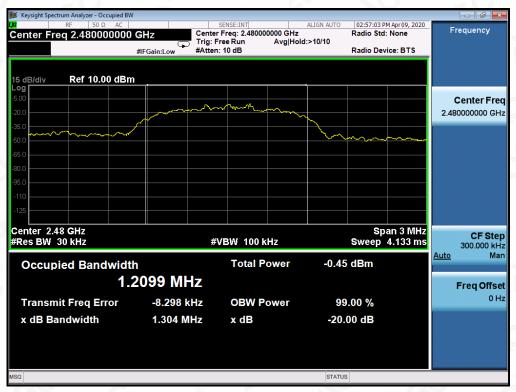
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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.
- 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						
	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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TEST RESULT FOR ENTIRE FREQUENCY RANGE TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 8DPSK MODULATION IN LOW CHANNEL



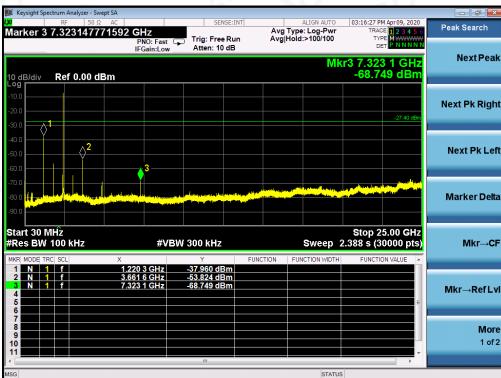
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TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN MIDDLE CHANNEL

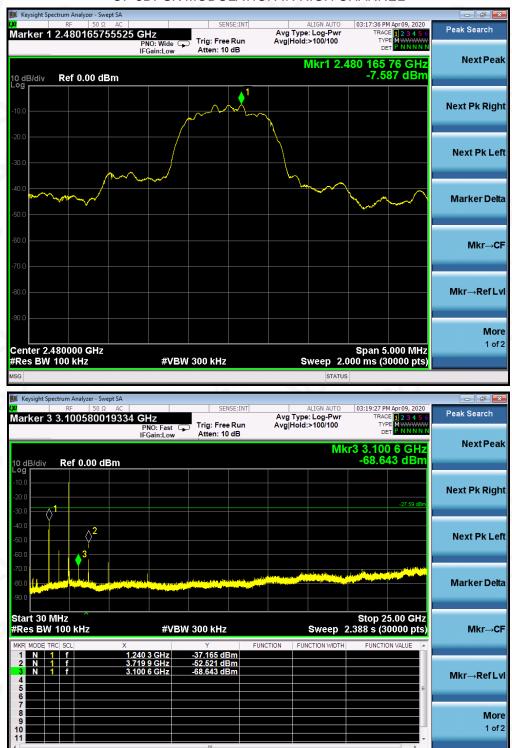




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TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN HIGH CHANNEL

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.



STATUS



Aug Type: Log-Pwr Avg Hold:>100/100 Peak Search Trig: Free Run Atten: 20 dB Next Pe Mkr1 2 Ref 10.00 dBm Next Pk Righ Next Pk Le Marker Delt Stop 2.41000 GHz Sweep 4.000 ms (30000 pts Start 2.37000 GHz #Res BW 100 kHz #VBW 300 kHz Mkr→C 2.402 166 4 GHz 2.400 000 0 GHz -7.837 dB Mkr→RefLv More 1 of

TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL

Hopping off

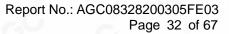
Hopping on

		18945298	F	NO: Fast Gain:Low	Trig: Free Atten: 20		Avg Hold	1:>100/100			2
dB/div	Rei	10.00 dE	\$m	Mkr1 2.40						53 GHz 82 dBm	Next Pea
29 .00 0.0 0.0											Next Pk Rig
).0).0).0									4 * 4 3	, Y Y Y Y	Next Pk Lo
).0).0).0	talate da ma	********	مبا _س فرمیر	uluna ⁿ selentra	Sector Deschalter and State	nandonhihi	ggaden gedefetert				Marker De
es B۱	37000 N 100			#VB	W 300 kHz			Sweep 4.0	000 ms (:	1000 GHz 30000 pts)	Mkr⊸(
1 N	TRC SCL		× .408 945		۲ -8.082 dl	3m	ICTION FU	NCTION WIDTH	FUNCT	ION VALUE	
2 N 3	1 f	2	.400 000	0 GHz	-64.451 dE	3m				=	Mkr→RefL
											Ma
4 5 6 7 8 9 9											1 0

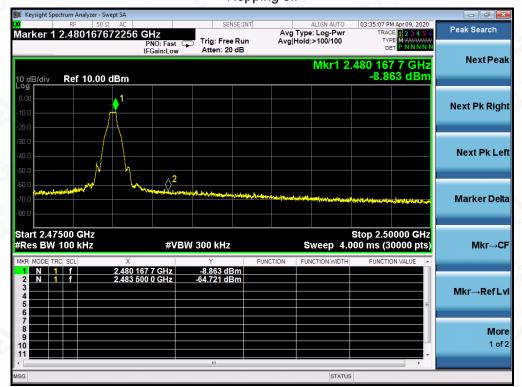


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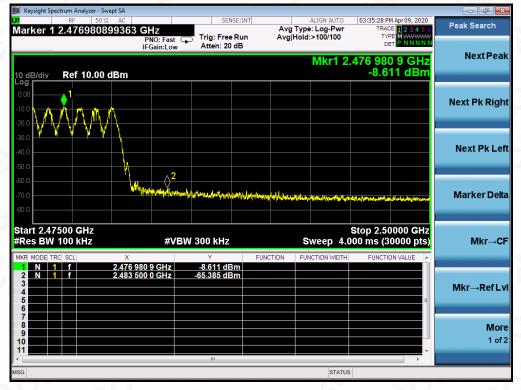






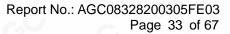
GFSK MODULATION IN HIGH CHANNEL Hopping off

Hopping on

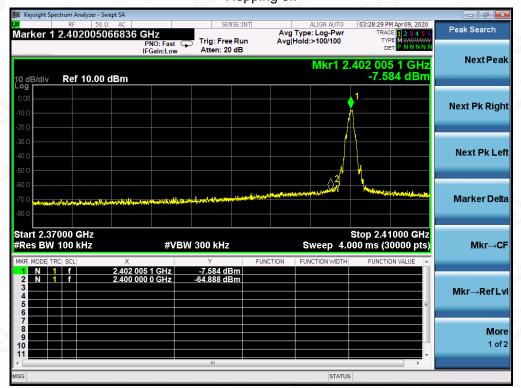


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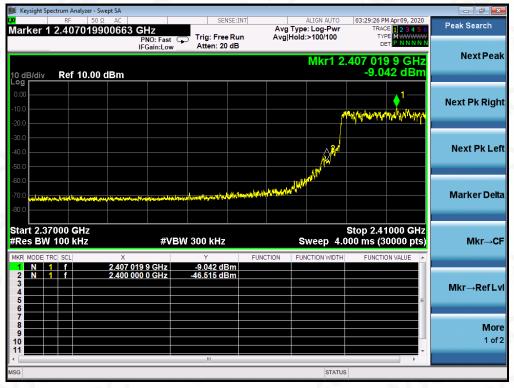






π /4-DQPSK MODULATION IN LOW CHANNEL Hopping off

Hopping on

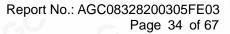


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π /4-DQPSK MODULATION IN HIGH CHANNEL Hopping off

Hopping on



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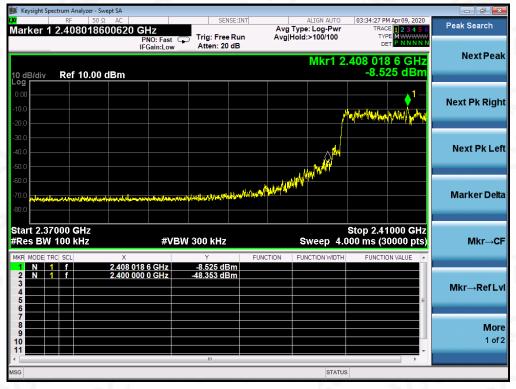
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8DPSK MODULATION IN LOW CHANNEL Hopping off

Hopping on



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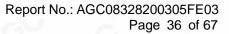
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 Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

 Tel:
 +86-755 2523 4088

 E-mail:
 agc@agc-cert.com

 Service Hotline:400 089 2118

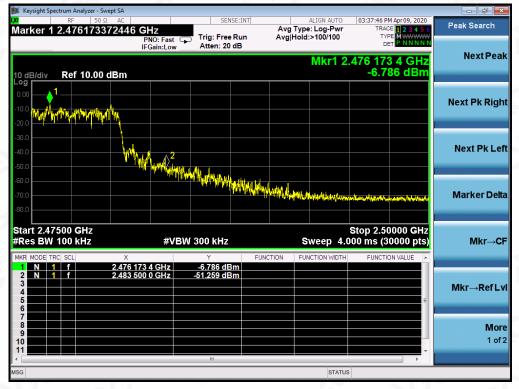






8DPSK MODULATION IN HIGH CHANNEL Hopping off

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.
- 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 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.





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		

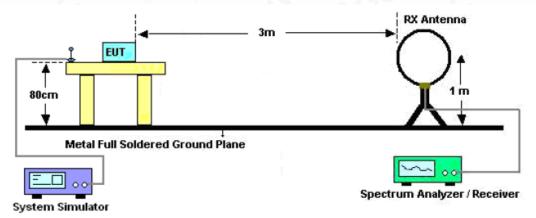
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP



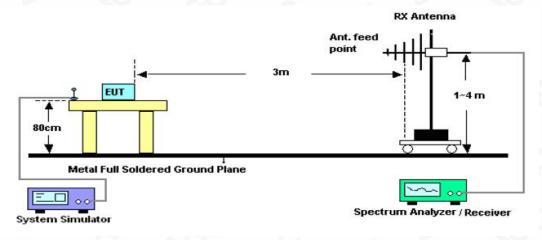


10.2. TEST SETUP

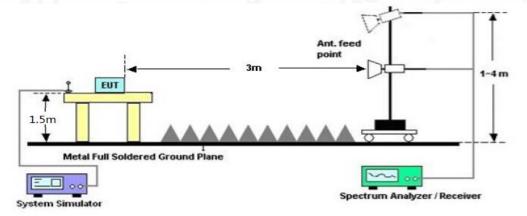
Radiated Emission Test-Setup Frequency Below 30MHz



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.

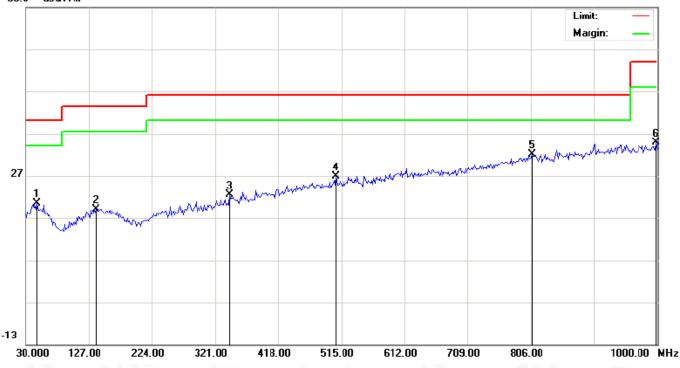




RADIATED EMISSION BELOW 1GHZ

EUT	True Wireless Earphone Model Name		BH422A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal

66.9 dBuV/m



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		47.7833	0.64	19.81	20.45	40.00	-19.55	peak			
2		138.3167	-0.04	19.12	19.08	43.50	-24.42	peak			
3		343.6333	1.31	21.00	22.31	46.00	-23.69	peak			
4		506.9167	1.74	25.13	26.87	46.00	-19.13	peak			
5	*	807.6167	1.42	30.51	31.93	46.00	-14.07	peak			
6		998.3833	2.21	32.55	34.76	54.00	-19.24	peak			

RESULT: PASS

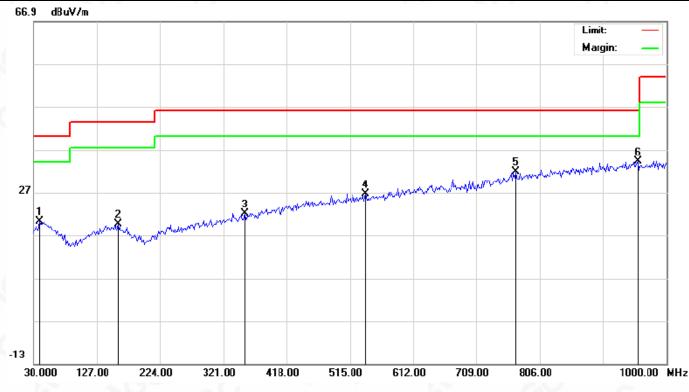


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EUT	True Wireless Earphone Model Name		BH422A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		39.7000	0.28	19.98	20.26	40.00	-19.74	peak			
2		159.3333	0.33	19.19	19.52	43.50	-23.98	peak			
3		353.3333	0.66	21.34	22.00	46.00	-24.00	peak			
4		539.2500	0.93	25.76	26.69	46.00	-19.31	peak			
5		768.8167	2.18	29.71	31.89	46.00	-14.11	peak			
6	*	956.3500	1.97	32.18	34.15	46.00	-11.85	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.





RADIATED EMISSION ABOVE 1GHZ

EUT	True Wireless Earphone	Model Name	BH422A
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 Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4804.000	53.45	0.08	53.53	74	-20.47	peak
4804.000	48.66	0.08	48.74	54	-5.26	AVG
7206.000	50.98	2.21	53.19	74	-20.81	peak
7206.000	47.13	2.21	49.34	54	-4.66	AVG
NOV.	60			NOV 1	20	
emark:						

EUT	True Wireless Earphone Model Name		BH422A
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	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4804.000	54.19	0.08	54.27	74	-19.73	peak
4804.000	48.13	0.08	48.21	54	-5.79	AVG
7206.000	52.75	2.21	54.96	74	-19.04	peak
7206.000	46.37	2.21	48.58	54	-5.42	AVG
0	0		C A	0		
emark:	20	6		- 61	C.	©
	F (O)	<u> </u>				

Factor = Antenna Factor + Cable Loss - Pre-amplifier





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EUT	True Wireless Earphone Model Name		BH422A
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	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4882.000	52.71	0.14	52.85	74	-21.15	peak
4882.000	47.04	0.14	47.18	54	-6.82	AVG
7323.000	50.62	2.36	52.98	74	-21.02	peak
7323.000	45.88	2.36	48.24	54	-5.76	AVG
0	0			©.	0	
mark:						

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

			4
EUT	True Wireless Earphone	Model Name	BH422A
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	0
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4882.000	52.27	0.14	52.41	74	-21.59	peak
4882.000	45.63	0.14	45.77	54	-8.23	AVG
7323.000	50.19	2.36	52.55	74	-21.45	peak
7323.000	43.47	2.36 💿	45.83	54	-8.17	AVG
		- 6	R			
				0		1

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





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EUT	True Wireless Earphone	Model Name	BH422A
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 Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4960.000	52.23	0.22	52.45	74	-21.55	peak
4960.000	47.07	0.22	47.29	54	-6.71	AVG
7440.000	51.49	2.64	54.13	74	-19.87	peak
7440.000	44.68	2.64	47.32	54	-6.68	AVG
0			.V	0		
C	(6)				(2)	

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

EUT	True Wireless Earphone	Model Name	BH422A
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	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	52.79	0.22	53.01	74	-20.99	peak
4960.000	46.25	0.22	46.47	54	-7.53	AVG
7440.000	50.34	2.64	52.98	74	-21.02	peak
7440.000	43.08	2.64	45.72	54	-8.28	AVG
		<u>_</u>				
emark:				6	0	

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, 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.



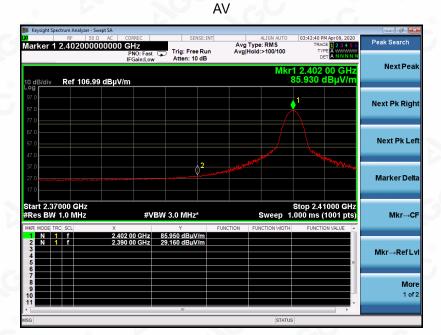


EUT True Wireless Earphone		Model Name	BH422A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal

TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

PK





RESULT: PASS



Attestation of Global Compliance(Shenzhen)Co.,Ltd. Add: 2/F., Building 2,Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China Tel: +86–755 2523 4088 E-mail:agc@agc-cert.com Service

om Service Hotline:400 089 2118



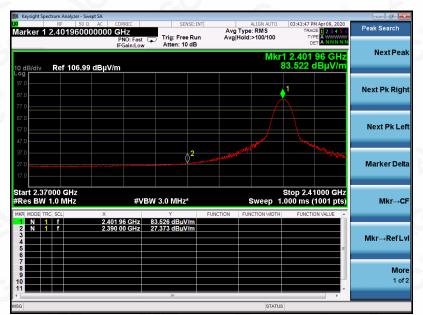
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EUT	True Wireless Earphone	Model Name	BH422A
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

PK



AV



RESULT: PASS



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EUT	True Wireless Earphone	Model Name	BH422A
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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