

FCC Test Report

Report No.: AGC00210201009FE03

FCC ID	: 2AVUHTT-BH051
APPLICATION PURPOSE	: Original Equipment
PRODUCT DESIGNATION	: True Wireless Stereo Earbuds
BRAND NAME	: TAOTRONICS
MODEL NAME	: TT-BH051
APPLICANT	Shenzhen NearbyExpress Technology Development Company Limited
DATE OF ISSUE	: Nov. 04,2020
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	. /	Nov. 04,2020	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	Shenzhen NearbyExpress Technology Development Company Limited		
Address	Room 701, 702, 703, 705, 706, 708, 709, Building E, Galaxy World Phase II, Minle Community, Minzhi Street, Longhua District, Shenzhen, Guangdong, China 518000		
Manufacturer	Shenzhen NearbyExpress Technology Development Company Limited		
Address	Room 701, 702, 703, 705, 706, 708, 709, Building E, Galaxy World Phase II, Minle Community, Minzhi Street, Longhua District, Shenzhen, Guangdong, China 518000		
Factory	DONGGUAN KOPPO ELECTRONICS CO., LTD.		
Address	BUILDING I, NO. 2, ROAD 3, BUXINJI INDUSTRIAL AREA. JINGTOU VILLAGE, FENGGANG TOWN, DONGGUAN CITY, GUANGDONG PROVINCE, P.R.C		
Product Designation	True Wireless Stereo Earbuds		
Brand Name	TAOTRONICS		
Test Model	TT-BH051		
Date of test	Oct. 23,2020 to Nov. 04,2020		
Deviation	No any deviation from the test method		
Condition of Test Sample	Sample Normal		
Test Result	Pass		
Report Template	ort 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

Sky dong

Sky Dong (Project Engineer)

Nov. 04,2020

Max Zhang

_____ Max Zhang

Nov. 04,2020

Approved By

Reviewed By

Lowe

(Reviewer)

Forrest Lei (Authorized Officer)

Nov. 04,2020

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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, π /4-DQPSK and 8DPSK technology to achieve the system operation.

A major technical description of EUT is described as following **Operation Frequency** 2.402 GHz to 2.480 GHz **RF Output Power** 4.097dBm (Max) **Bluetooth Version** V 5.0 BR \square GFSK, EDR $\square \pi$ /4-DQPSK, \square 8DPSK Modulation BLE GFSK 1Mbps GFSK 2Mbps Number of channels 79 V2.0 **Hardware Version Software Version** V1.0 **Antenna Designation** FPC Antenna (Comply with requirements of the FCC part 15.203) Antenna Gain -1.25dBi **Power Supply** DC 3.7V by battery or DC 5V by adapter

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

2. The EUT includes left and right channel earphones, the schematic diagram is the same, but the PCB Layout is different. The RF output power of each earphone has been tested and recorded in the report. For other test items, due to the higher power, the correct headset has been tested and recorded in this report, which is the worst case.

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
· · · · ·	0	2402 MHz
	1	2403 MHz
	38	2440 MHz
2402~2480MHz	39	2441 MHz
	40	2442 MHz
	77	2479 MHz
	78	2480 MHz

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2.3. RECEIVER INPUT BANDWIDTH

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

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a hopping sequence in data mode: 40, 21, 44, 23, 04, 15, 66, 56, 19, 78, 07, 28, 69, 55, 36, 45, 05, 13, 43, 74, 57, 35, 67, 76, 02, 34, 54, 63, 42, 11, 30, 06, 64, 25, 75, 48, 17, 33, 58, 01, 29, 14, 51, 72, 03, 31, 50, 61, 77, 18, 10, 47, 12, 68, 08, 49, 20, 79, 73, 09, 16, 60, 71, 41, 24, 53, 38, 26, 46, 37, 65, 32, 70, 52, 27, 59, 22, 62, 39,

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

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

1. LAP/UAP of the master of the connection.

2. Internal master clock.

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

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

Regarding short transmissions the Bluetooth system has the following behavior:

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

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

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

This submittal(s) (test report) is intended for **FCC ID: 2AVUHTT-BH051** filing to comply with the FCC PART 15.247 requirements.

2.7. TEST METHODOLOGY

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

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.10. ANTENNA REQUIREMENT

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

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard

uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, $Uc = \pm 0.8$ dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: Uc = ±2 %
- Uncertainty of Dwell Time: $Uc = \pm 2\%$
- 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 Radiated Emission, 3axis were chosen for testing for each applicable mode.

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

Software Setting

Test Commands PAUSE RADIO STATUS RADIO STATUS FULL TXSTART	î	Test Arguments LO Freq. (MDRz) Power (Atn. Mag. Exp)	2402	Close Help
TXDATA1 TXDATA2 TXDATA3 TXDATA4 RXSTART1				Execute
	Browse	for f Disp	lay : @ Standar	d C BER
		for f Disp L\QTIL\BlueTest3\te		d C BER

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure:

EUT

Conducted Emission Configure:

EUT	5	AE
_		

5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	True Wireless Stereo Earbuds	TT-BH051	2AVUHTT-BH051	EUT
2	control board	EPS-35-3.3	DC 3.3V	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	Not applicable

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

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6. TEST FACILITY

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

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	N/A	N/A
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 09, 2019	Sep. 08, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 17, 2019	May 16, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03,2020	Sep. 02,2022
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. PEAK OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

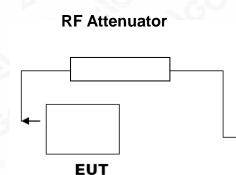
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. 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.

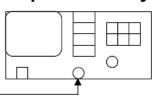
Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

PEAK POWER TEST SETUP



Spectrum Analyzer



RF Cable

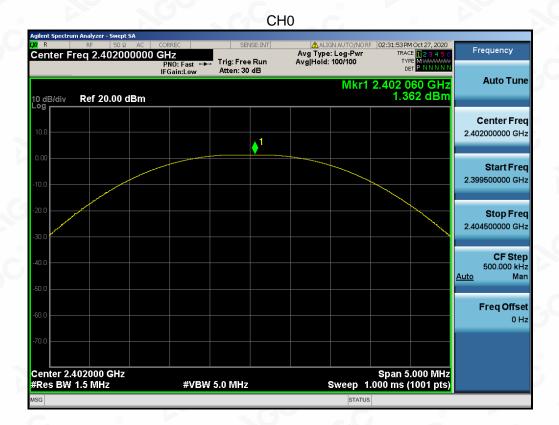
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7.3. LIMITS AND MEASUREMENT RESULT

The right ear:

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION					
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail		
2.402	1.362	30	Pass		
2.441	1.274	30	Pass		
2.480	1.212	30	Pass		



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Agilent Spectrum Analyzer - Swept SA LXI R RF 50 Ω AC	CORREC	SENSE:INT	ALIGN AUTO/NORF	02:33:24 PM Oct 27, 2020	
Center Freq 2.48000000	0 GHz	Trig: Free Run	Avg Type: Log-Pwr Avg Hold: 100/100	TRACE 123456 TYPE MWWWW DET P N N N N N	Frequency
	IFGain:Low	Atten: 30 dB			Auto Tur
10 dB/div Ref 20.00 dBm			Mkr1	2.479 820 GHz 1.212 dBm	Auto Tul
					Center Fre
10.0		1			2.480000000 GH
0.00					Start Fre
-10.0					2.477500000 GH
-20.0					
					Stop Fre 2.482500000 GH
-30.0					CF Ste
-40.0					500.000 kł Auto Ma
-50.0					
-60.0					Freq Offs
					0 H
-70.0					
Center 2.480000 GHz #Res BW 1.5 MHz	#VBW	5.0 MHz	Sweep 1.	Span 5.000 MHz 000 ms (1001 pts)	
MSG			STATUS		

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PEAK OUTPUT POWER MEASUREMENT RESULT FOR Π/4-DQPSK MODULATION					
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail		
2.402	3.429	21	Pass		
2.441	3.412	21	Pass		
2.480	3.407	21	Pass		



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Agilent Spectrum Analyzer - Swept SA					
XX R RF 50 Ω AC Center Freq 2.480000000		SENSE:INT	ALIGN AUTO/NORF	02:35:48 PM Oct 27, 2020 TRACE 1 2 3 4 5 6	Frequency
Center Freq 2.48000000	PNO: Fast 🔸	Trig: Free Run	Avg Hold: 100/100	TYPE MUMANANA DET P N N N N N	
	IFGain:Low	Atten: 30 dB			Auto Tune
			Mkr1	2.480 105 GHz	Autorune
10 dB/div Ref 20.00 dBm				3.407 dBm	
					Center Fred
10.0					2.480000000 GHz
10.0		≜ 1			2.48000000 GH
0.00					
0.00			and the second sec		Start Fred
-10.0					2.477500000 GHz
-10.0				and a second and a second and a second	
-20.0					
-20.0					Stop Fred
-30.0					2.482500000 GHz
-30.0					
-40.0					CF Step
-40.0					500.000 kH
-50.0					<u>Auto</u> Mar
-50.0					
					Freq Offse
-60.0					0 H:
70.0					
-70.0					
Center 2.480000 GHz				Span 5.000 MHz	
#Res BW 1.5 MHz	#VBW	5.0 MHz	Sweep 1	.000 ms (1001 pts)	
MSG			STATUS		

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	PEAK OUTPUT POWER MEASURE	EMENT RESULT	
	FOR 8-DPSK MODULA	ΓΙΟΝ	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	4.097	21	Pass
2.441	3.973	21	Pass
2.480	3.851	21	Pass



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Report No.: AGC00210201009FE03 Page 19 of 84





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The left ear:

	PEAK OUTPUT POWER MEASUREMENT RESULT						
	FOR GFSK MOUDULATION						
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail				
2.402	0.673	21	Pass				
2.441	0.487	21	Pass				
2.480	0.601	21	Pass				

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Agilent Spectrum Analyzer - Swept SA					
X R RF 50 Ω AC Center Freq 2.480000000		SENSE:INT	Avg Type: Log-Pwr	RF 03:57:40 PMNov 03, 2020 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast 🔸 IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Hold: 100/100		Auto Tun
10 dB/div Ref 20.00 dBm				2.480 085 GHz 0.601 dBm	
					Center Fre
10.0		1			2.480000000 GH
0.00					Start Fre
-10.0					2.477500000 GH
-20.0					Stop Fre
-30.0					2.482500000 GH
					CF Ste
-40.0					500.000 kH <u>Auto</u> Ma
-50.0					
-60.0					Freq Offse 0 H
-70.0					
Center 2.480000 GHz #Res BW 1.5 MHz	#VBW	5.0 MHz	Sweep 7	Span 5.000 MHz 1.000 ms (1001 pts)	
MSG			STATU		

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

	PEAK OUTPUT POWER MEASURI FOR Π/4-DQPSK MODUL				
Frequency (GHz)Peak Power (dBm)Applicable Limits (dBm)Pass or Fail					
2.402	2.668	21	Pass		
2.441	2.621	21	Pass		
2.480	2.571	21	Pass		



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	PEAK OUTPUT POWER MEASUR	EMENT RESULT	
	FOR 8-DPSK MODULA	ΓΙΟΝ	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	3.257	21	Pass
2.441	3.191	21	Pass
2.480	2.947	21	Pass



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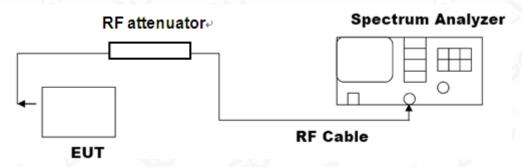


8. 20DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

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

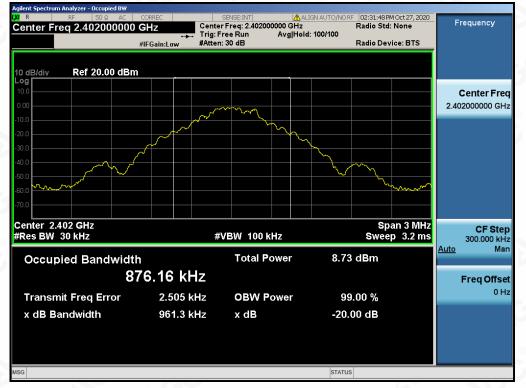


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8.3. LIMITS AND MEASUREMENT RESULTS

MEASUREMENT RESULT FOR GFSK MOUDULATION					
Appliechie Limite		Measurement Result			
Applicable Limits	Test Data (MHz)		Criteria		
N/A	Low Channel	0.961	PASS		
	Middle Channel	0.964	PASS		
	High Channel	0.961	PASS		



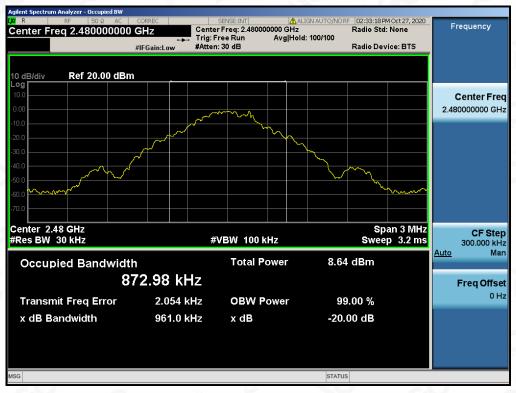
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

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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 II /4-DQPSK MODULATION						
Annlieghle Limite		Measurement Result				
Applicable Limits	Test Data	Test Data (MHz)				
N/A	Low Channel	1.340	PASS			
	Middle Channel	1.341	PASS			
	High Channel	1.335	PASS			

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

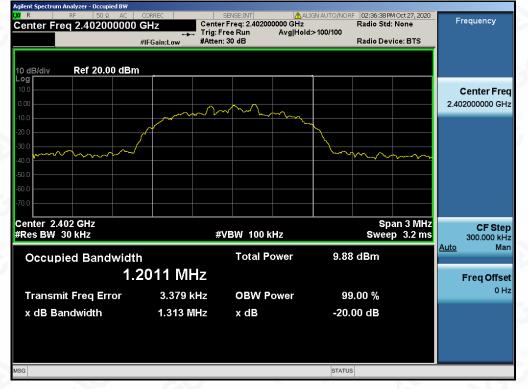


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MEASUREMENT RESULT FOR 8-DPSK MODULATION							
Applicable Limits		Measurement Result					
	Test Data	Test Data (MHz)					
	Low Channel	1.313	PASS				
N/A	Middle Channel	1.311	PASS				
	High Channel	1.312	PASS				

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

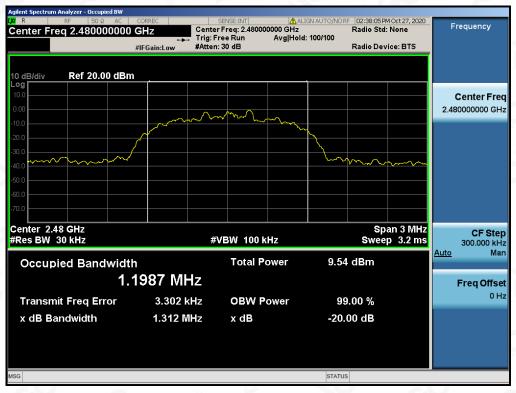


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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

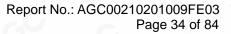
9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

9.4. LIMITS AND MEASUREMENT RESULT

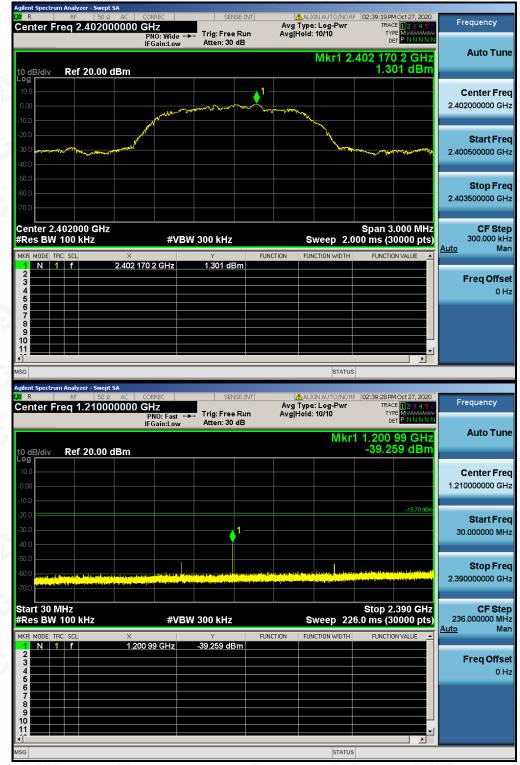
LIMITS AND MEASUREMENT RESULT						
	Measurement Result					
Applicable Limits	Test Data	Criteria				
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency	At least -20dBc than the limit Specified on the BOTTOM Channel	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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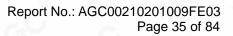




TEST RESULT FOR ENTIRE FREQUENCY RANGE TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 8DPSK MODULATION IN LOW CHANNEL



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Agilent Spectrum Analyzer - Swept SA					
M R RF 50 Ω AC Center Freq 13.74175000	CORREC		ALIGN AUTO/NORF g Type: Log-Pwr ilHold: 10/10	02:39:53 PM Oct 27, 2020 TRACE 1 2 3 4 5 6 TYPE M	Frequency
10 dB/div Ref 20.00 dBm		n: 30 dB		1 4.803 5 GHz -41.476 dBm	Auto Tune
10.0 0.00 -10.0					Center Freq 13.741750000 GHz
-20.0				-18.70 dBm	Start Freq 2.483500000 GHz
-50.0 -60.0 H. Long, 4 and 5 Million A. 1999 -70.0					Stop Freq 25.000000000 GHz
Start 2.48 GHz #Res BW 100 kHz	#VBW 300	FUNCTION	Sweep 2	Stop 25.00 GHz 152 s (30000 pts)	CF Step 2.251650000 GHz <u>Auto</u> Man
2 3 4 5 6 7 8 9 9 10 11	803 5 GHz -41.41	76 dBm			Freq Offset 0 Hz
MSG			STATUS		

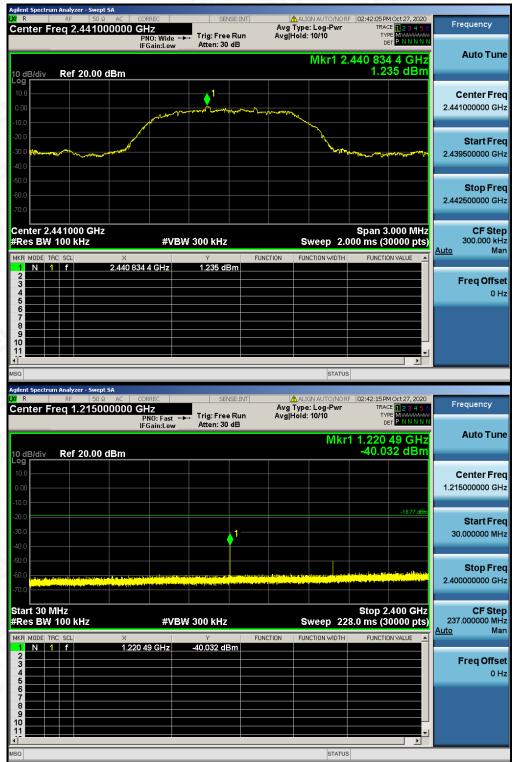
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 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

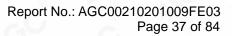
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com
 Web: http://cn.agc-cert.com/





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

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Agilent Spectrum Analyzer - Swept SA					
M R RF 50Ω AC Center Freq 13.74175000	0 GHz	Avg	ALIGN AUTO/NORF Type: Log-Pwr Hold: 10/10	02:42:40 PM Oct 27, 2020 TRACE 1 2 3 4 5 6	Frequency
10 dB/div Ref 20.00 dBm	PNO: Fast Trig: F IFGain:Low Atten:			TYPE NNNNN DET NNNNNN 14.882 3 GHz -38.897 dBm	Auto Tune
10.0 0.00 -10.0					Center Freq 13.741750000 GHz
-20.0				-18.77 dBm	Start Freq 2.483500000 GHz
-50.0 -60.0 -70.0					Stop Freq 25.00000000 GHz
Start 2.48 GHz #Res BW 100 kHz	#VBW 300 kł	FUNCTION	Sweep 2	Stop 25.00 GHz .152 s (30000 pts)	CF Step 2.251650000 GHz <u>Auto</u> Man
2 3 4 5 6 7					Freq Offset 0 Hz
8 9 10 11 10 11 10 10 10 10 10 10 10 10 10			STATUS	 ▼	

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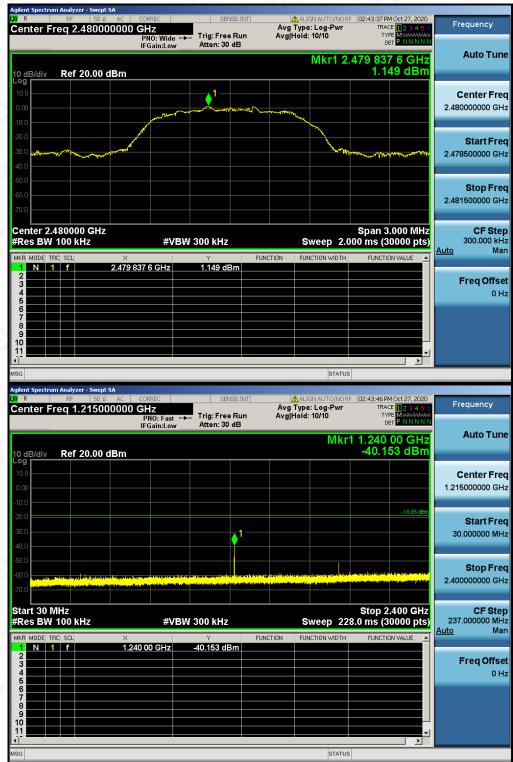
 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

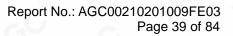
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com

Web: http://cn.agc-cert.com/





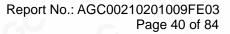
TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN HIGH CHANNEL





Agilent Spectru												
Center F	_{RF} req 1	50 Ω 3.7500	000000 G	RREC		NSE:INT	Avg	Type: L	_og-Pwr	02:44:11P	4 Oct 27, 2020 CE 1 2 3 4 5 6 PE M 444444	Frequency
			P IF ¹	NO: Fast Gain:Low	Atten: 30		Avgir	Hold: 1		D	D 1 GHz	Auto Tune
10 dB/div	Ref	20.00	dBm								63 dBm	
Log 10.0												Center Freq 13.750000000 GHz
-10.0											-18.85 dBm	
-30.0		1										Start Freq 2.50000000 GHz
-50.0		and the burlet	anite attactor	A. Januar		a geological figuration	.					Stop Freq
-60.0 1 -70.0		i ben af ta an an the				and the second						25.000000000 GHz
Start 2.50 #Res BW				#VE	SW 300 kHz			s	weep 2	Stop 2 2.152 s (3	5.00 GHz 0000 pts)	CF Step 2.25000000 GHz Auto Man
MKR MODE TH			×	1 GHz	, -42.363 d		NCTION	FUNCT	ION WIDTH	FUNCTI	N VALUE	
2 3 4 5 6 7 8 9 9			4.960		-42.383 a							Freq Offset 0 Hz
MSG									STATUS			

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

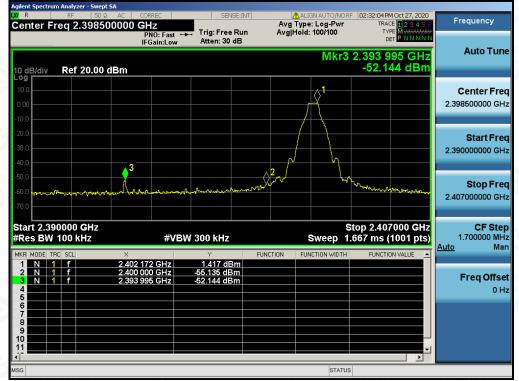




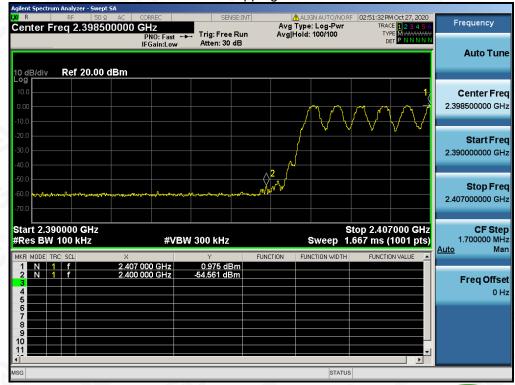
TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL

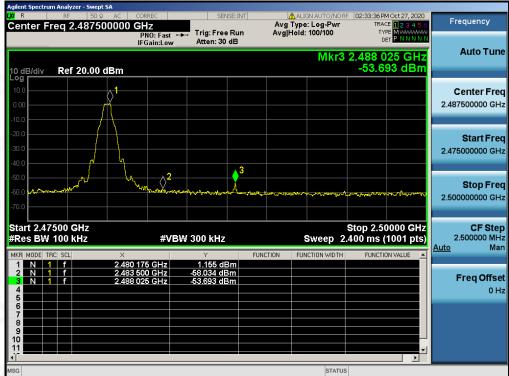
Hopping off



Hopping on



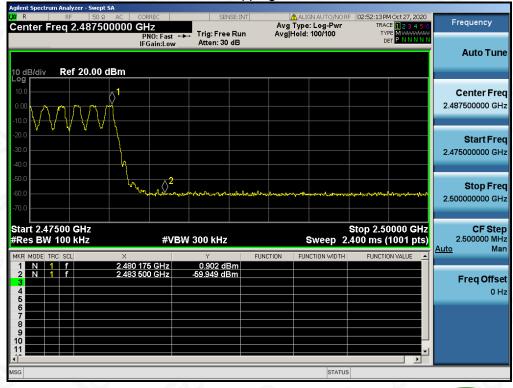




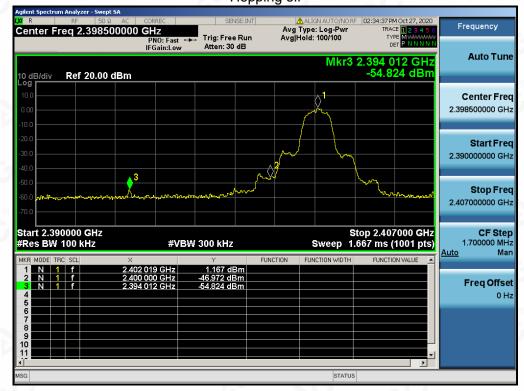
GFSK MODULATION IN HIGH CHANNEL

Hopping off

Hopping on





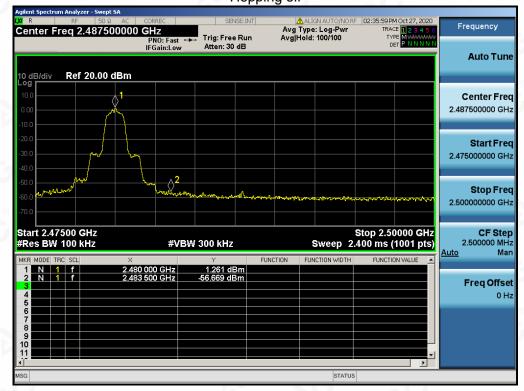


π /4-DQPSK MODULATION IN LOW CHANNEL Hopping off

Hopping on





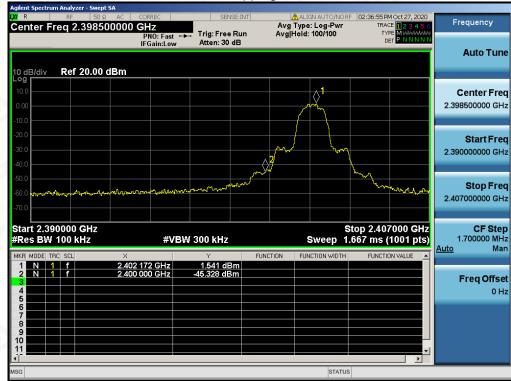


π /4-DQPSK MODULATION IN HIGH CHANNEL Hopping off

Hopping on







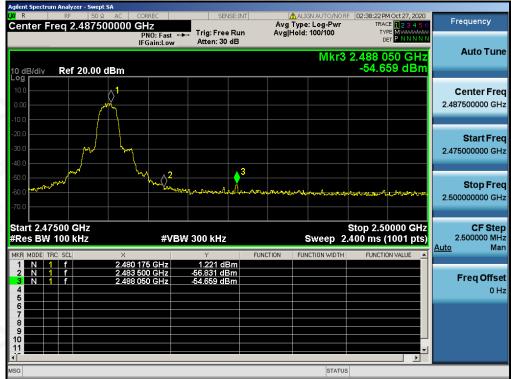
8-DPSK MODULATION IN LOW CHANNEL

Hopping off

Hopping on







8-DPSK MODULATION IN HIGH CHANNEL

Hopping off

Hopping on





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



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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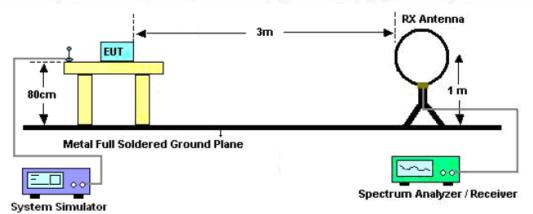
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 E-mail: agc@agc-cert.com
 Web: http://cn.agc-cert.com/

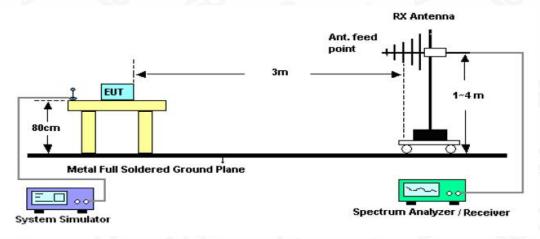


10.2. TEST SETUP

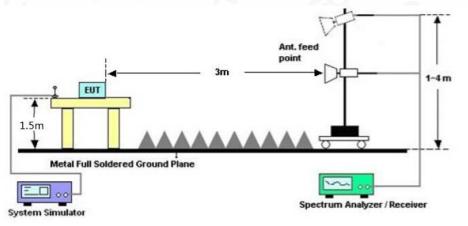
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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10.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

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

10.4. TEST RESULT

RADIATED EMISSION BELOW 30MHz

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

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-11.13

-7.42

peak

peak

46.00

46.00

JT		True	Wireless Ste	reo Earbuds	Model Na	me	TT-BH	1051	
		25°C Relative Humidity							
emperature			3	<u> </u>			55.4%		
ressure		960hF	Pa	- 6	Test Volta	st Voltage No		rmal Voltage	
est Mode		Mode	7		Antenna		Horizo	ontal	
72.0	dBu∀/m	2	3 Martin Martin	AND HAND WHIT AND	waydorloowyddynuddyd	5. 	Limit: Margin:		
		- Company							
-8 30.00	00 127.00	224.00		8.00 515.00	612.00 709.			1000.00 MHz	
30.00	00 127.00 Mk.	224.00 Freq.							
30.00			321.00 41 Reading	8.00 515.00 Correct	612.00 709. Measure-	00 806.00			
30.00	Mk.	Freq.	321.00 41 Reading Level	8.00 515.00 Correct Factor	612.00 709. Measure- ment	00 806.00 Limit	Over	1000.00 MHz	
30.00 No.	Mk. 7'	Freq. MHz	321.00 41 Reading Level dBuV	8.00 515.00 Correct Factor dB	612.00 709. Measure- ment dBuV/m	00 806.00 Limit dBuV/m	Over	Detector	
30.00 No.	Mk. 7 [.] 160	Freq. MHz 1.7100	321.00 41 Reading Level dBuV 5.37	8.00 515.00 Correct Factor dB 16.74	612.00 709. Measure- ment dBuV/m 22.11	00 806.00 Limit dBuV/m 40.00	Over dB -17.89	Detector peak	

RADIATED EMISSION BELOW 1GHz

RESULT: PASS

5

6 *

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28.92

31.80

34.87

38.58

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734.2199

911.7300

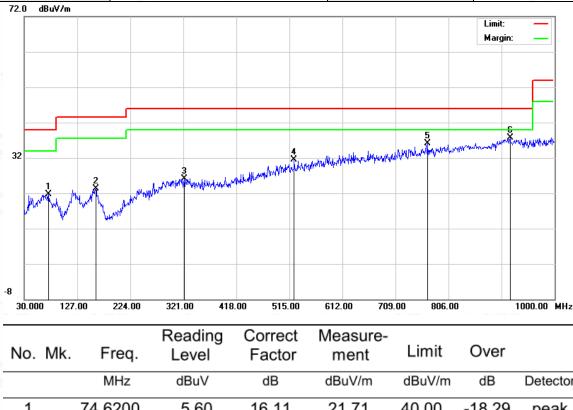
5.95

6.78



Report No.: AGC00210201009FE03 Page 51 of 84

EUT	True Wireless Stereo Earbuds	Model Name	TT-BH051
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical



			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1		74.6200	5.60	16.11	21.71	40.00	-18.29	peak
9	2		160.9500	4.49	18.81	23.30	43.50	-20.20	peak
	3		322.9400	4.82	21.36	26.18	46.00	-19.82	peak
	4		523.7300	6.05	25.46	31.51	46.00	-14.49	peak
	5		768.1700	6.35	29.69	36.04	46.00	-9.96	peak
	6	*	918.5200	5.85	31.86	37.71	46.00	-8.29	peak

RESULT: PASS

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

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



RADIATED EMISSION ABOVE 1GHz

EUT	True Wireless Stereo Earbuds	Model Name	TT-BH051
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal

Meter Reading	Factor	Emission Level	Limits	Manada		
		Emission Level	LIIIIIS	Margin	Value Type	
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- value Type	
46.78	0.08	46.86	74	-27.14	peak	
36.45	0.08	36.53	54	-17.47	AVG	
39.62	2.21	41.83	74	-32.17	peak	
32.35	2.21	34.56	54	-19.44	AVG	
					0	
	36.45 39.62 32.35	46.78 0.08 36.45 0.08 39.62 2.21 32.35 2.21	46.78 0.08 46.86 36.45 0.08 36.53 39.62 2.21 41.83	46.78 0.08 46.86 74 36.45 0.08 36.53 54 39.62 2.21 41.83 74 32.35 2.21 34.56 54	46.78 0.08 46.86 74 -27.14 36.45 0.08 36.53 54 -17.47 39.62 2.21 41.83 74 -32.17 32.35 2.21 34.56 54 -19.44	

EUT	True Wireless Stereo Earbuds	Model Name	TT-BH051
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	45.94	0.08	46.02	74	-27.98	peak	
4804.000	35.63	0.08	35.71	54	-18.29	AVG	
7206.000	39.51	2.21	41.72	74	-32.28	peak	
7206.000	31.47	2.21	33.68	54	-20.32	AVG	
	6			<u> </u>	G	· · · · · · · · · · · · · · · · · · ·	
emark:						0	
actor = Anter	na Factor + Cabl	e Loss – Pre-a	mplifier.	8			



Report No.: AGC00210201009FE03 Page 53 of 84

EUT	True Wireless Stereo Earbuds	Model Name	TT-BH051
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	47.87	0.14	48.01	74	-25.99	peak
4882.000	36.45	0.14	36.59	54	-17.41	AVG
7323.000	40.59	2.36	42.95	74	-31.05	peak
7323.000	33.42	2.36	35.78	54	-18.22	AVG
®				(C)		

EUT	True Wireless Stereo Earbuds	Model Name	TT-BH051
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	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4882.000	47.79	0.14	47.93	74	-26.07	peak
4882.000	39.56	0.14	39.7	54	-14.3	AVG
7323.000	41.42	2.36	43.78	74	-30.22	peak
7323.000	33.16	2.36	35.52	54	-18.48	AVG
8						
<u> </u>	8				6	8
emark:		ß				

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



Report No.: AGC00210201009FE03 Page 54 of 84

EUT	True Wireless Stereo Earbuds	Model Name	TT-BH051
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Horizontal

		(O)				
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	45.58	0.22	45.8	74	-28.2	peak
4960.000	36.41	0.22	36.63	54	-17.37	AVG
7440.000	39.26	2.64	41.9	74	-32.1	peak
7440.000	30.37	2.64	33.01	54	-20.99	AVG
0				ß		2
	8				®	
emark:	- 6	8			- 6	0
actor = Anter	na Factor + Cable	Loss – Pre-	amplifier.		~0~	- C

EUT **True Wireless Stereo Earbuds Model Name** TT-BH051 Temperature 25°C **Relative Humidity** 55.4% Pressure 960hPa **Test Voltage** Normal Voltage **Test Mode** Mode 9 Vertical Antenna

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	45.66	0.22	45.88	74	-28.12	peak
4960.000	35.47	0.22	35.69	54	-18.31	AVG
7440.000	39.53	2.64	42.17	74	-31.83	peak
7440.000	30.48	2.64	33.12	54	-20.88	AVG
		0	®			3
				0		

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

RESULT: PASS

Note:

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

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

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

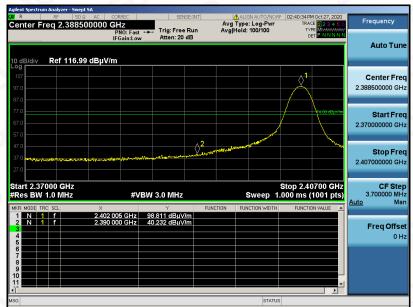
All test modes had been tested. The 8DPSK modulation is the worst case and recorded in the report.



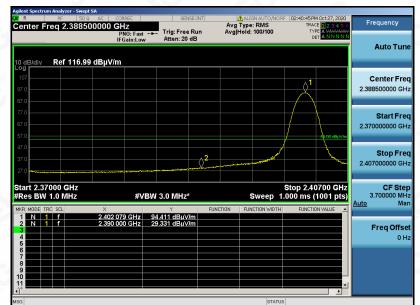
TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

EUT	True Wireless Stereo Earbuds	Model Name	TT-BH051
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Horizontal

ΡK



AV



RESULT: PASS

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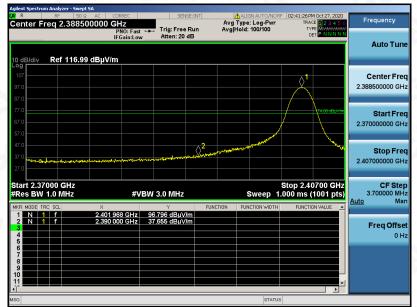
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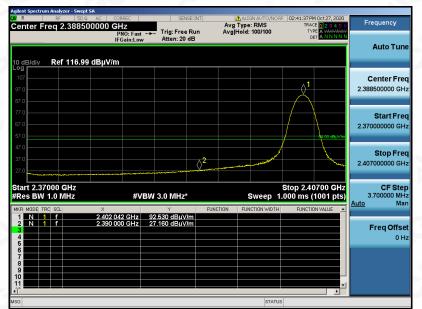
Report No.: AGC00210201009FE03 Page 56 of 84

EUT	True Wireless Stereo Earbuds	Model Name	TT-BH051
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 7	Antenna	Vertical

PK



AV



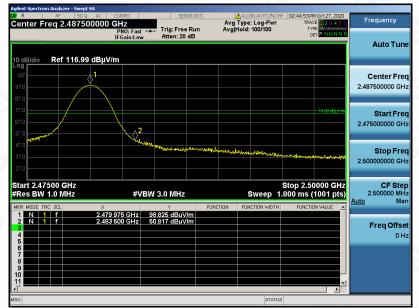
RESULT: PASS



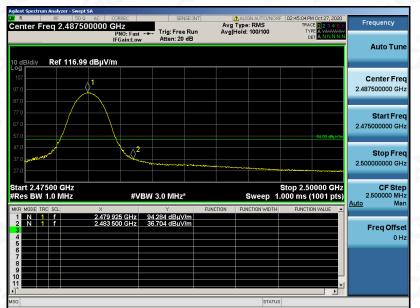
Report No.: AGC00210201009FE03 Page 57 of 84

EUT	True Wireless Stereo Earbuds	Model Name	TT-BH051
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Horizontal

PK



AV



RESULT: PASS



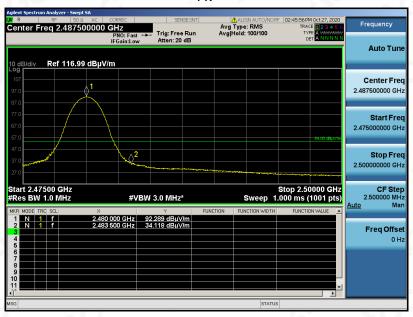
Report No.: AGC00210201009FE03 Page 58 of 84

EUT	True Wireless Stereo Earbuds	Model Name	TT-BH051
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 9	Antenna	Vertical



PK

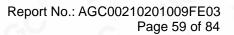
AV



RESULT: PASS

Note: The factor had been edited in the "Input Correction" of the Spectrum Analyzer. The 8DPSK modulation is the worst case and recorded in the report.

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11. NUMBER OF HOPPING FREQUENCY

11.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.

2. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

3. VBW \geq RBW. Sweep: Auto. Detector function: Peak. Trace: Max hold.

4. Allow the trace to stabilize.

11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

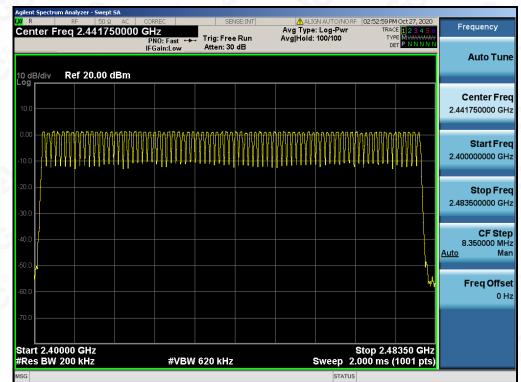
Same as described in section 8.2

11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

11.4. LIMITS AND MEASUREMENT RESULT

TOTAL NO. OF	LIMIT (NO. OF CH)	MEASUREMENT (NO. OF CH)	RESULT
HOPPING CHANNEL	>=15	79	PASS



TEST PLOT FOR NO. OF TOTAL CHANNELS

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



12. TIME OF OCCUPANCY (DWELL TIME)

12.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Zero span, centered on a hopping channel.

2. RBW shall be \leq channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel.

3. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.

4. Detector function: Peak. Trace: Max hold.

5. Use the marker-delta function to determine the transmit time per hop.

6. Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) × (period specified in the requirements / analyzer sweep time)

7. The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements.

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

12.3. MEASUREMENT EQUIPMENT USED

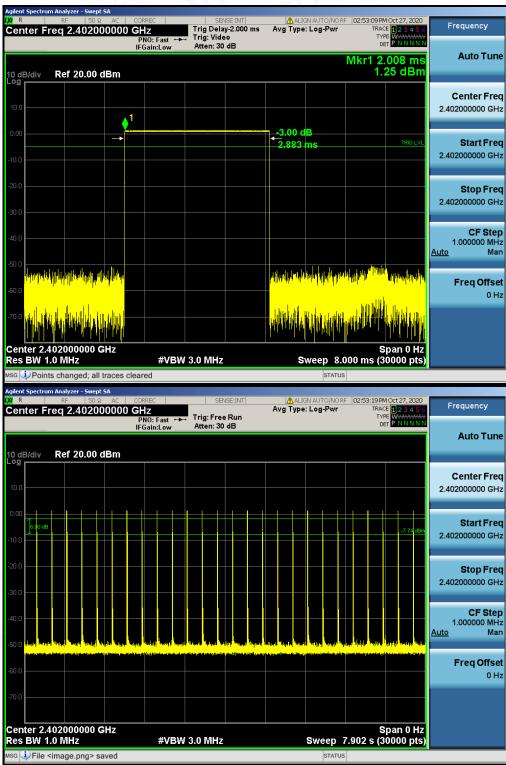
The same as described in section 6

12.4. LIMITS AND MEASUREMENT RESULT

Channel	Time of Pulse for DH5 (ms)	Number of hops in the period specified in the requirements	Sweep Time (ms)	Limit (ms)
Low	2.883	26*4	299.832	400
Middle	2.883	26*4	299.832	400
High	2.883	27*4	311.364	400

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





TEST PLOT OF LOW CHANNEL

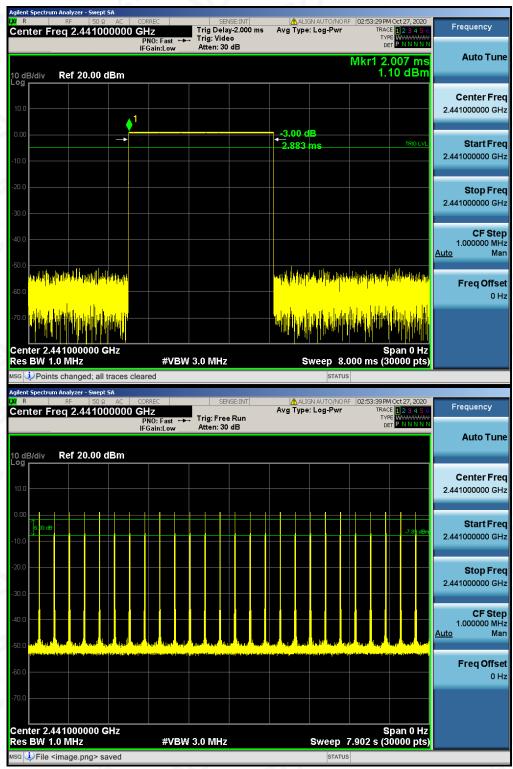
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TEST PLOT OF MIDDLE CHANNEL

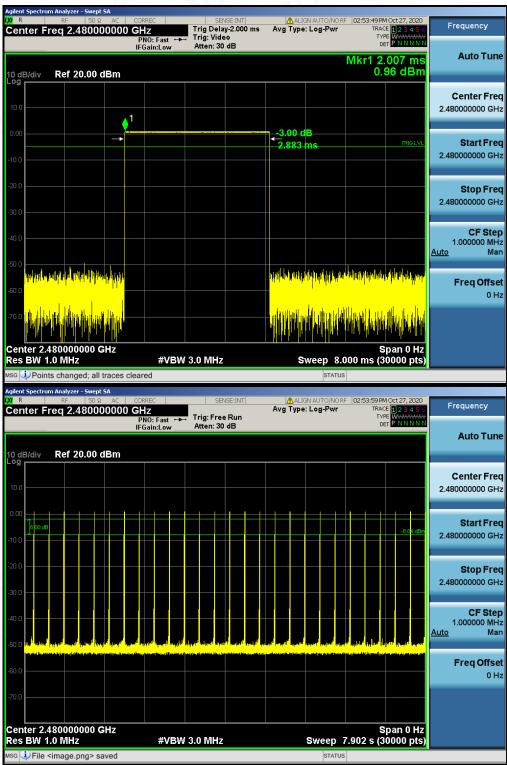
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TEST PLOT OF HIGH CHANNEL

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13. FREQUENCY SEPARATION

13.1. MEASUREMENT PROCEDURE

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

1. Span: Wide enough to capture the peaks of two adjacent channels.

2. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.

3. Video (or average) bandwidth (VBW) \geq RBW.

4. Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.3

13.4. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT	
	MHz		Dava	
CH38-CH39	0.993	20 dB BW	Pass	

02:55:10 PM Oct 27, 2020 Marker Marker 1 2.439984984985 GHz Avg Type: Log-Pv Avg|Hold: 100/100 Trig: Free Run Atten: 30 dB PNO: Wide IFGain:Lov Select Marker Mkr1 2.439 -1.811 dBm Ref 20.00 dBm Normal Delta **Fixed** Center 2.441000 GHz #Res BW 30 kHz Span 4.000 MHz Sweep 4.262 ms (1000 pts) #VBW 100 kHz Off -1.811 dBm -1.563 dBm 2.439 985 GHz 2.440 978 GHz **Properties** More 1 of 2

TEST PLOT FOR FREQUENCY SEPARATION

Note: The GFSK modulation is the worst case and recorded in the report.

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