

FCC Test Report

Report No.: AGC01167181201FE03

FCC ID : 2AJZGBX3

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: BONX mini

BRAND NAME : BONX

MODEL NAME : BX3

CLIENT : BONX INC.

DATE OF ISSUE : Apr. 26, 2019

STANDARD(S) : FCC Part 15 Subpart C Section 15.247

REPORT VERSION: V1.1

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes	
V1.0	V1.0		Valid	Initial release	
V1.1	1 st	Apr. 26, 2019	Invalid	Revise report	

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1. VERIFICATION OF CONFORMITY

Applicant	BONX INC.				
Address	Sasaki Bldg. 3F, 4-18-20, Komazawa, Setagaya-ku, Tokyo, 154-0011, Japan				
Manufacturer	ShenZhen Olive Technology Co., LTD.				
Address	3 Floor, C Building, QiaoTong YuanLing Park, ShiYan Town, BaoAn District, ShenZhen, GuangdongChina				
Factory	ShenZhen Olive Technology Co.,LTD.				
Address	3 Floor, C Building, QiaoTong YuanLing Park, ShiYan Town, BaoAn District, ShenZhen, GuangdongChina				
Product Designation	BONX mini				
Brand Name	BONX				
Test Model	BX3				
Date of test	Mar. 04, 2019 to Mar. 26, 2019 and Apr. 25, 2019				
Deviation	None de la companya d				
Condition of Test Sample	Normal				
Report Template	AGCRT-US-BR/RF (2013-03-01)				

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.247. The test results of this report relate only to the tested sample identified in this report.

Tested By

John Zeng(Zeng Weiqiang) Apr. 25, 2019

Reviewed By

Bart Xie(Xie Xiaobin) Apr. 26, 2019

Approved By

Forrest Lei(Lei Yonggang)
Authorized Officer

Apr. 26, 2019

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is "BONX mini" designed as a "Communication Device". It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

A major technical descripti	of of EOT is described as following
Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	7.120dBm(Max)
Bluetooth Version	V4.2
Modulation	GFSK, π /4-DQPSK, 8DPSK for BR/EDR
Number of channels	79 for BR/EDR
Hardware Version	V2R1
Software Version	0.15.6
Antenna Designation	Fixed Antenna
Antenna Gain	0dBi
Power Supply	DC 3.7V by battery
Note: The EUT doesn't sup	oport BLE.

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2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
TK 1990	The Management of the Control of the	2402MHz
	01	2403MHz
		The state of the s
	38	2440 MHz
2402~2480MHz	® American de Court 39	2441 MHz
	40	2442 MHz
	测	The state of the s
	The complete of the control of the c	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 synchronization 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 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. 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. TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013.

2.7. 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

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4. DESCRIPTION OF TEST MODES

	NO.	TEST MODE DESCRIPTION
THE THIS TO	1 凝 测	Low channel GFSK
Obal Co	2	Middle channel GFSK
aG Me	3	High channel GFSK
15. T	4	Low channel π /4-DQPSK
S S S S S S S S S S S S S S S S S S S	5 For Global Company	Middle channel π /4-DQPSK
Alles	6	High channel π /4-DQPSK
	7	Low channel 8DPSK
	8 A Complian	Middle channel 8DPSK
Alleste	9	High channel 8DPSK
	10	BT Link

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. The EUT used fully-charged battery when tested.
- 4. The BT function of EUT didn't work when charging.
- 5. 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

Configure 1: (Normal hopping)



Configure 2: (Control continuous TX)

	F alion o	
EUT	30	PC

5.2. EQUIPMENT USED IN EUT SYSTEM

Item Equipment		Mfr/Brand	Model/Type No.	Remark	
1 亚	BONX mini	BONX	BX3	EUT	
2	battery	N/A	EN68205	Accessory	
3	PC	APPLE	A1465	A.E	
4	Control box	BT-USB to UART V0	N/A	A.E	

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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	
§15.247 d §15.209	Radiated Emission	Compliant	
§15.247 d	Band Edges	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	Line conduction Emission	N/A	

Note: N/A means it's not applicable to this item.

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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				

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7. TEST EQUIPMENT LIST

TEST EQUIPMENT OF RADIATED EMISSION TEST

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

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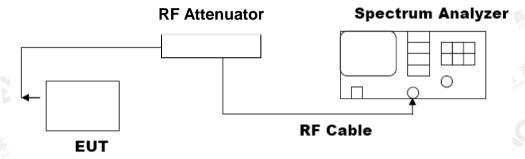
8. PEAK OUTPUT POWER

8.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, middle and the bottom operation frequency individually.
- 3. RBW > the 20 dB bandwidth of the emission being measured, VBW \geq RBW.
- 4. Record the maximum power from the Spectrum Analyzer.
- 5. The maximum peak power shall be less 21dBm.

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



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8.3. LIMITS AND MEASUREMENT RESULT

		R MEASUREMENT RESULT MOUDULATION	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	3.511	21	Pass
2.441	4.515	21	Pass
2.480	4.826	21	Pass

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			- 100°
	PEAK OUTPUT POW	ER MEASUREMENT RESULT	
	FOR ∏ /4-D	OQPSK MODULATION	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	6.163	21	Pass
2.441	6.816	8 21 21 Santa Care	Pass
2.480	7.052	21	Pass



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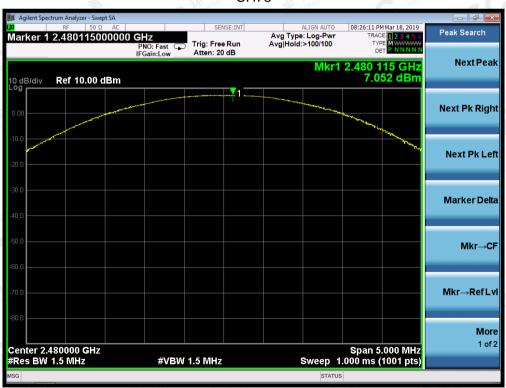
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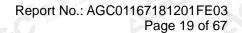


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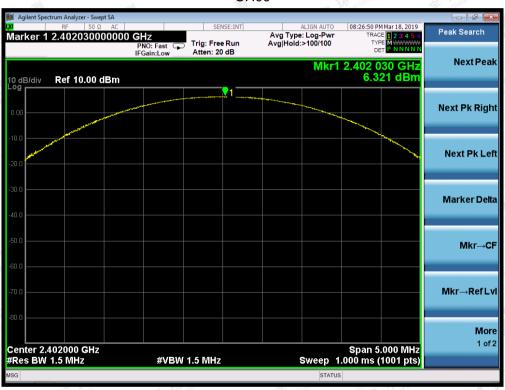
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	PEAK OUTPUT PO	WER MEASUREMENT RESULT	
	FOR 8-0	PSK MODULATION	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	6.321	21	Pass
2.441	6.935	21	Pass
2.480	7.120	21	Pass



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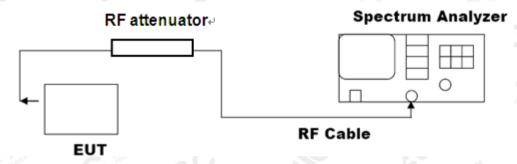
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9. BANDWIDTH

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 Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel RBW \geq 1% of the 20 dB bandwidth, VBW \geq 3RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

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



Note: The EUT has been used temporary antenna connector for testing.

9.3. LIMITS AND MEASUREMENT RESULTS

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT					
	Measurement Result				
Applicable Limits	pplicable Limits			Dooult	
		99%OBW (MHz)	-20dB BW(MHz)	Result	
O F A COUNT COUNTY	Low Channel	0.865	0.827	PASS	
N/A	Middle Channel	0.863	0.855	PASS	
S. S.	High Channel	0.863	0.832	PASS	

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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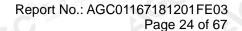
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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	BLUETOOTH 2	MBPS LIMITS AN	D MEASUREMENT RES	ULT	
Measurement Result					
Applicable Limits		Test Data (MHz)		Dogulf.	
		99%OBW (MHz)	-20dB BW(MHz)	Result	
IN Compliance	Low Channel	1.188	1.250	PASS	
N/A	Middle Channel	1.201	1.260	PASS	
	High Channel	1.207	1.253	PASS	

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



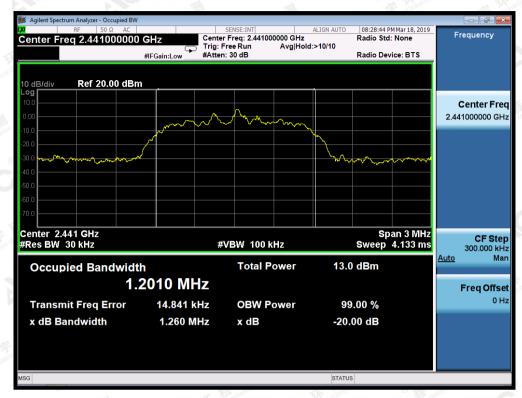
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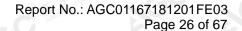
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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	BLUETOOTH :	3MBPS LIMITS AN	D MEASUREMENT R	ESULT	
	Measurement Result				
Applicable Limits	Limits Test Data (MHz)				
		99%OBW (MHz)	-20dB BW(MHz)	Result	
The Completion	Low Channel	1.198	1.273	PASS	
N/A	Middle Channel	1.206	1.267	PASS	
-GC	High Channel	1.205	1.270	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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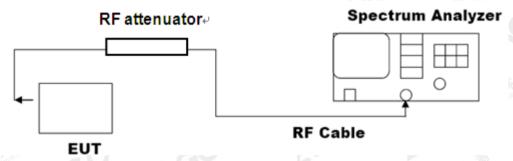
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10. CONDUCTED SPURIOUS EMISSION

10.1. 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 = 300kHz; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

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



10.3. LIMITS AND MEASUREMENT RESULT

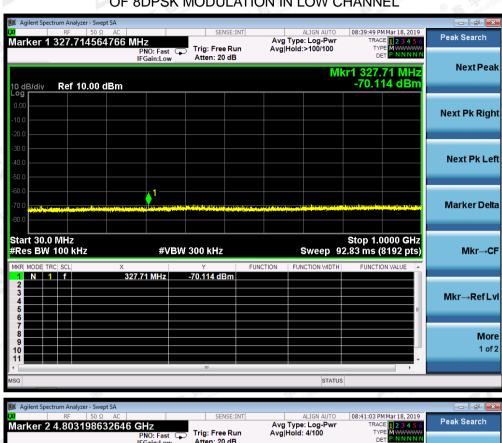
LIMITS AND MEASUREMENT RESULT					
A	Measurement Result				
Applicable Limits	Test Data	Result			
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS			
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 PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 8DPSK MODULATION IN LOW CHANNEL

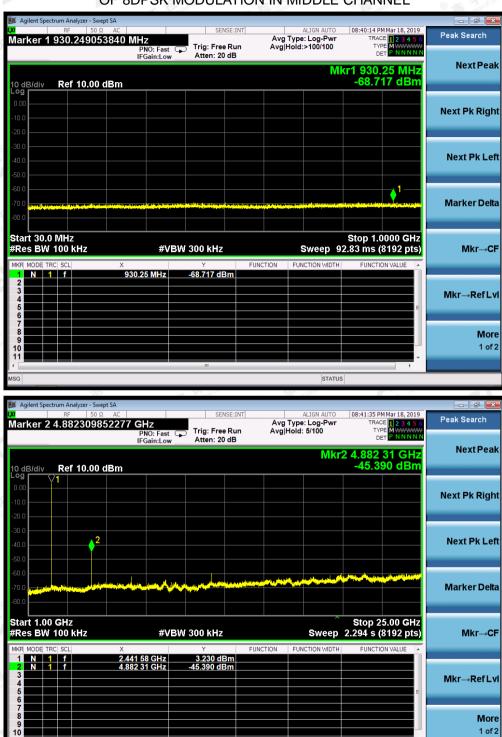




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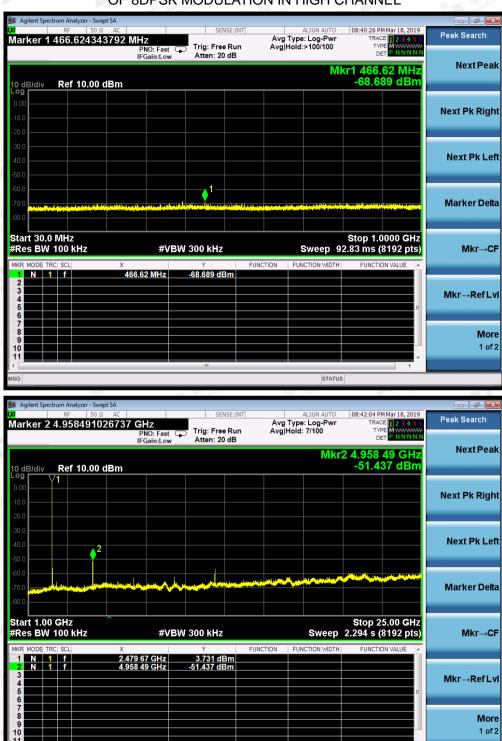
TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN MIDDLE CHANNEL



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

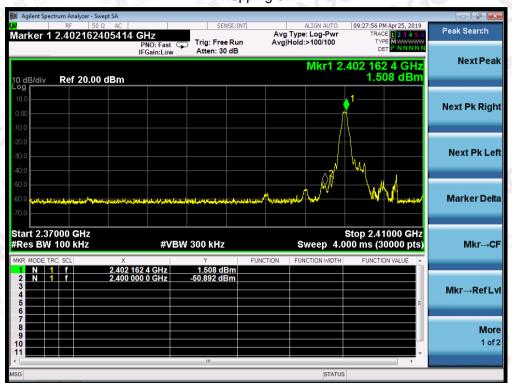


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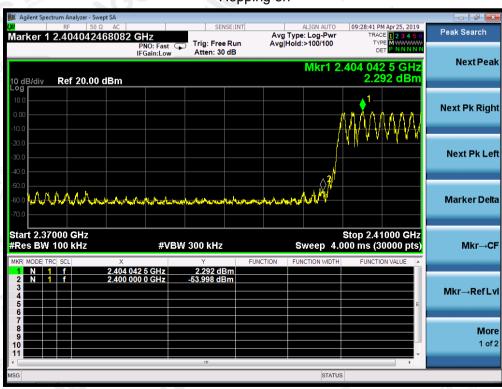


TEST RESULT FOR BAND EDGE

GFSK MODULATION IN LOW CHANNEL Hopping off



Hopping on



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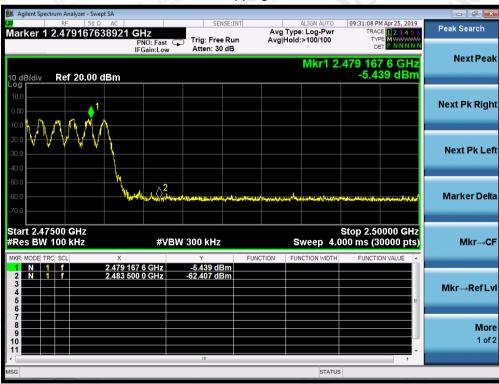
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GFSK MODULATION IN HIGH CHANNEL Hopping off



Hopping on

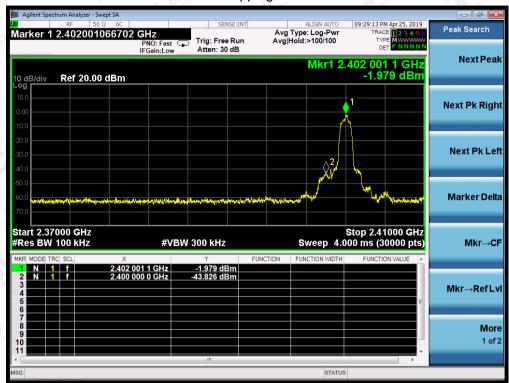


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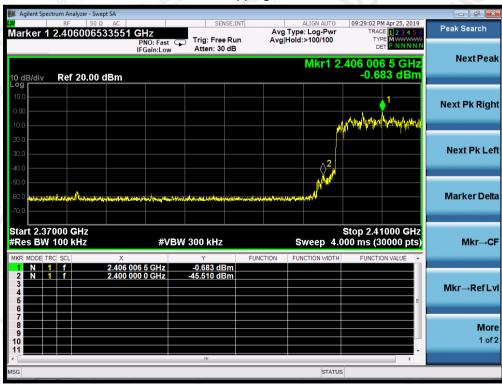
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π /4-DQPSK MODULATION IN LOW CHANNEL Hopping off



Hopping on

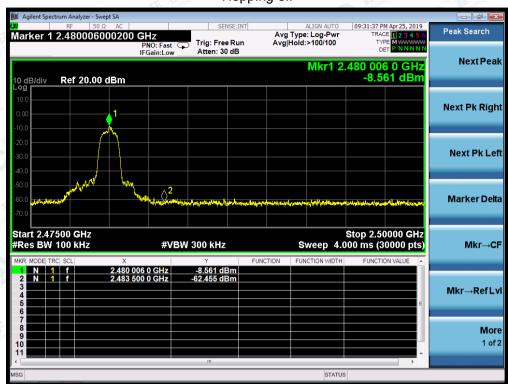


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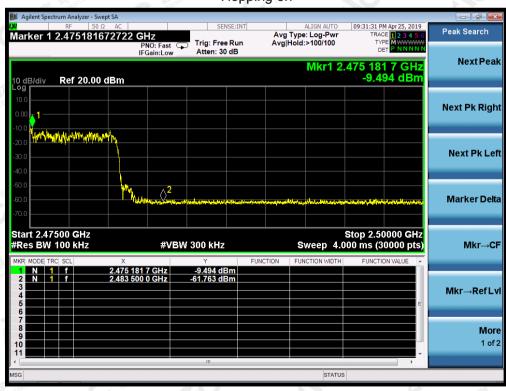
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π /4-DQPSK MODULATION IN HIGH CHANNEL Hopping off



Hopping on



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