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Report Template Revision Date: 2021-11-03



Test Report TESTING CNAS L5785

Report No.: CQASZ20231202363E-01 WICKED AUDIO, INC Applicant:

875 WEST 325 NORTH, LINDON, Utah 84042 United States Address of Applicant:

Equipment Under Test (EUT):

Wicked Hum 500x **Product:**

Model No.: 23BF09, WI-BTAPP500, WI-BTAPP501, WI-BTAPP502

WI-BTAPP500 Test Model No.:

N/A **Brand Name:**

FCC ID: 2AFM7WI-BTAPP50X

Standards: 47 CFR Part 15, Subpart C

Date of Receipt: 2023-12-21

Date of Test: 2023-12-21 to 2024-01-04

Date of Issue: 2024-03-18 PASS* Test Result:

*In the configuration tested, the EUT complied with the standards specified above.

Tested By: Reviewed By: _ (Alex Wang) Approved By:

(Jack Ai)







1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20231202363E-01	Rev.01	Initial report	2024-03-18



2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15.203 /		PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10-2013	PASS
Conducted Peak Output Power	47 CFR Part 15.247	ANSI C63.10-2013	PASS
20dB Occupied Bandwidth	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Carrier Frequencies Separation	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Hopping Channel Number	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Dwell Time	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Pseudorandom Frequency Hopping Sequence	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15.247	ANSI C63.10-2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Radiated Spurious emissions	47 CFR Part 15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15.205/15.209	ANSI C63.10-2013	PASS

Remark:

The tested sample(s) and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature. Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application



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4 General Information

4.1 Client Information

Applicant:	WICKED AUDIO, INC
Address of Applicant:	875 WEST 325 NORTH, LINDON, Utah 84042 United States
Manufacturer:	Topway EM Enterprise Ltd.
Address of Manufacturer:	8F., Block B, Building 6, Baoneng Science and technology park, Qingxiang RD., Qinghu Industrial Park, Longhua New District, Shenzhen, China 518109
Factory:	Topway EM Enterprise Ltd.
Address of Factory:	8F., Block B, Building 6, Baoneng Science and technology park, Qingxiang RD., Qinghu Industrial Park, Longhua New District, Shenzhen, China 518109

4.2 General Description of EUT

Product Name:	Wicked Hum 500x
Model No.:	23BF09, WI-BTAPP500, WI-BTAPP501, WI-BTAPP502
Test Model No.:	WI-BTAPP500
Trade Mark:	N/A
Software Version:	V1.0
Hardware Version:	V0.1
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.3
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK
Transfer Rate:	1Mbps/2Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Product Type:	☐ Mobile ☐ Portable
Test Software of EUT:	FCC_assist
Antenna Type:	Monopole antenna
Antenna Gain:	-3.51dBi
Power Supply:	Li-ion battery: DC 3.7V 300mAh, Charge by DC 5V for adapter
Simultaneous Transmission	☐ Simultaneous TX is supported and evaluated in this report.
	⊠ Simultaneous TX is not supported.



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Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel	2402MHz
The Middle channel	2441MHz
The Highest channel	2480MHz

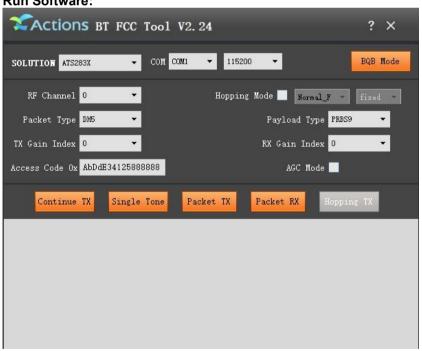


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4.3 Additional Instructions

EUT Test Software Settings:					
Mode:		 Special software is used. ☐ Through engineering command into the engineering mode. engineering command: *#*#3646633#*#* 			
EUT Power level:	(Power level is built-in set parameters selected)	(Power level is built-in set parameters and cannot be changed and selected)			
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.					
Mode	Channel	Frequency(MHz)			
	CH0	2402			
DH1/DH3/DH5 CH39 2441					
	CH78	2480			
	CH0	2402			
2DH1/2DH3/2DH5	CH39	2441			
	CH78	2480			

Run Software:





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4.4 Test Environment

Operating Environment:	Operating Environment:			
Temperature:	25 °C			
Humidity:	54% RH			
Atmospheric Pressure:	1009mbar			
Test Mode:	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.			

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	Supplied
Adapter	MI	/	/	CQA





4.6 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

No.	Item	Uncertainty
1	Radiated Emission (Below 1GHz)	5.12dB
2	Radiated Emission (Above 1GHz)	4.60dB
3	Conducted Disturbance (0.15~30MHz)	3.34dB
4	Radio Frequency	3×10 ⁻⁸
5	Duty cycle	0.6 %
6	Occupied Bandwidth	1.1%
7	RF conducted power	0.86dB
8	RF power density	0.74
9	Conducted Spurious emissions	0.86dB
10	Temperature test	0.8℃
11	Humidity test	2.0%
12	Supply voltages	0.5 %
13	Frequency Error	5.5 Hz



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4.7 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.8 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

IC Registration No.: 22984-1

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS (No. CNAS L5785)

CNAS has accredited Shenzhen Huaxia Testing Technology Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.9 Abnormalities from Standard Conditions

None.

4.10 Other Information Requested by the Customer

None.



4.11 Equipment List

			14	0-1:1	0-1:1
Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2023/09/08	2024/09/07
Spectrum analyzer	R&S	FSU26	CQA-038	2023/09/08	2024/09/07
Spectrum analyzer	R&S	FSU40	CQA-075	2023/09/08	2024/09/07
Preamplifier	MITEQ	AFS4-00010300-18- 10P-4	CQA-035	2023/09/08	2024/09/07
Preamplifier	MITEQ	AMF-6D-02001800- 29-20P	CQA-036	2023/09/08	2024/09/07
Preamplifier	EMCI	EMC184055SE	CQA-089	2023/09/08	2024/09/07
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2021/09/16	2024/09/15
Bilog Antenna	R&S	HL562	CQA-011	2021/09/16	2024/09/15
Horn Antenna	R&S	HF906	CQA-012	2021/09/16	2024/09/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/09/16	2024/09/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2023/09/08	2024/09/07
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2023/09/08	2024/09/07
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2023/09/08	2024/09/07
Antenna Connector	CQA	RFC-01	CQA-080	2023/09/08	2024/09/07
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2023/09/08	2024/09/07
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2023/09/08	2024/09/07
Power meter	R&S	NRVD	CQA-029	2023/09/08	2024/09/07
Power divider	MIDWEST	PWD-2533-02-SMA- 79	CQA-067	2023/09/08	2024/09/07
EMI Test Receiver	R&S	ESR7	CQA-005	2023/09/08	2024/09/07
LISN	R&S	ENV216	CQA-003	2023/09/08	2024/09/07
Coaxial cable	CQA	N/A	CQA-C009	2023/09/08	2024/09/07
DC power	KEYSIGHT	E3631A	CQA-028	2023/09/08	2024/09/07

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



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5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

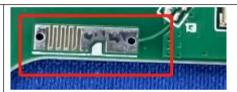
15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is Monopole antenna.

The connection/connection type between the antenna to the EUT's antenna port is: unique coupling.

This is either permanently attachment or a unique coupling that satisfies the requirement.





5.2 Conducted Emissions

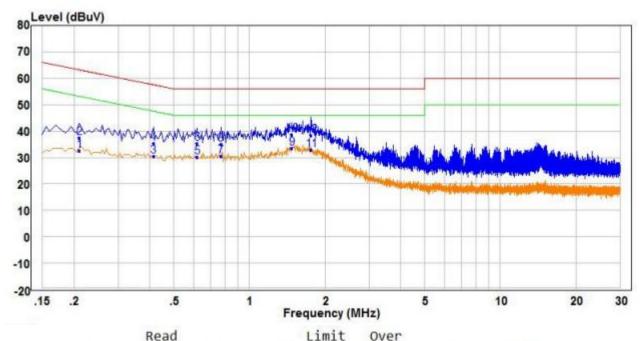
Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
Limit:	Frequency range (MHz)	Limit (c	IBuV)		
	Troquonoy rango (Wiriz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithm	n of the frequency.			
Test Procedure:	 The mains terminal disturbation. The EUT was connected to Impedance Stabilization Not impedance. The power call connected to a second LIS reference plane in the same measured. A multiple sock power cables to a single Libert exceeded. The tabletop EUT was place ground reference plane. An placed on the horizontal ground reference with of the EUT shall be 0.4 mm of the EUT shall be 0.4 mm overtical ground reference plane. The LISN unit under test and bonded mounted on top of the ground between the closest points the EUT and associated ed. In order to find the maximum equipment and all of the interest. 	o AC power source throetwork) which provides oles of all other units of SN 2, which was bonde the way as the LISN 1 for et outlet strip was used ISN provided the rating open and non-metalling for floor-standing around reference plane, the a vertical ground referom the vertical ground referom the vertical ground reference plane. The story of the LISN 1 and the quipment was at least 0 the company of the company of the company of the LISN 1 and the quipment was at least 0 the company of the company	bugh a LISN 1 (Line a 50Ω/50μH + 5Ω linear fithe EUT were do to the ground or the unit being do to connect multiple of the LISN was not considered the table 0.8m above the rangement, the EUT was derence plane. The rear do reference plane. The endition has been downward from the boundary of the explane for LISNs has distance was EUT. All other units of 0.8 m from the LISN 2. The positions of		
Test Setup:	ANSI C63.10: 2013 on con	iducted measurement.			
1 σσε σσειαμ.	Shielding Room EUT AC Mains LISN1	AE LISN2 AC Mai	Test Receiver		



Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type at the lowest, middle, high channel.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation at the lowest channel is the worst case. Only the worst case is recorded in the report.
Test Voltage:	AC 120V/60Hz
Test Results:	Pass

Measurement Data

Live line:



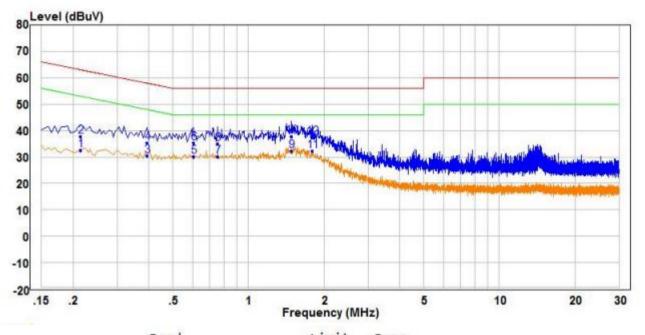
		Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
		MHZ	dBuV	dB	dBuV	dBuV	dB		
1		0.210	21.89	10.60	32.49	53.21	-20.72	Average	Line
2		0.210	27.00	10.60	37.60	63.21	-25.61	QP	Line
3		0.415	19.95	10.62	30.57	47.55	-16.98	Average	Line
4		0.415	24.85	10.62	35.47	57.55	-22.08	QP	Line
5		0.620	19.41	10.82	30.23	46.00	-15.77	Average	Line
6		0.620	24.66	10.82	35.48	56.00	-20.52	QP	Line
7		0.770	19.60	10.85	30.45	46.00	-15.55	Average	Line
8		0.770	24.24	10.85	35.09	56.00	-20.91	QP	Line
9	PP	1.475	21.63	11.79	33.42	46.00	-12.58	Average	Line
10	QP	1.475	26.79	11.79	38.58	56.00	-17.42	QP	Line
11		1.760	20.70	12.29	32.99	46.00	-13.01	Average	Line
12		1.760	26.12	12.29	38.41	56.00	-17.59	QP	Line

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



Neutral line:



		Read			Limit	Over		
	Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
	MHZ	dBuV	dB	dBuV	dBuV	dB		_
1	0.215	21.95	10.59	32.54	53.01	-20.47	Average	Neutral
2	0.215	27.18	10.59	37.77	63.01	-25.24	QP	Neutral
3	0.395	19.80	10.60	30.40	47.96	-17.56	Average	Neutral
4	0.395	24.83	10.60	35.43	57.96	-22.53	QP	Neutral
5	0.605	19.29	10.81	30.10	46.00	-15.90	Average	Neutral
6	0.605	24.54	10.81	35.35	56.00	-20.65	QP	Neutral
7	0.755	19.24	10.86	30.10	46.00	-15.90	Average	Neutral
8	0.755	24.26	10.86	35.12	56.00	-20.88	QP	Neutral
9 PF	1.485	21.65	10.72	32.37	46.00	-13.63	Average	Neutral
10 QF	1.485	26.93	10.72	37.65	56.00	-18.35	QP	Neutral
11	1.800	21.42	10.74	32.16	46.00	-13.84	Average	Neutral
12	1.800	26.64	10.74	37.38	56.00	-18.62	OP	Neutral

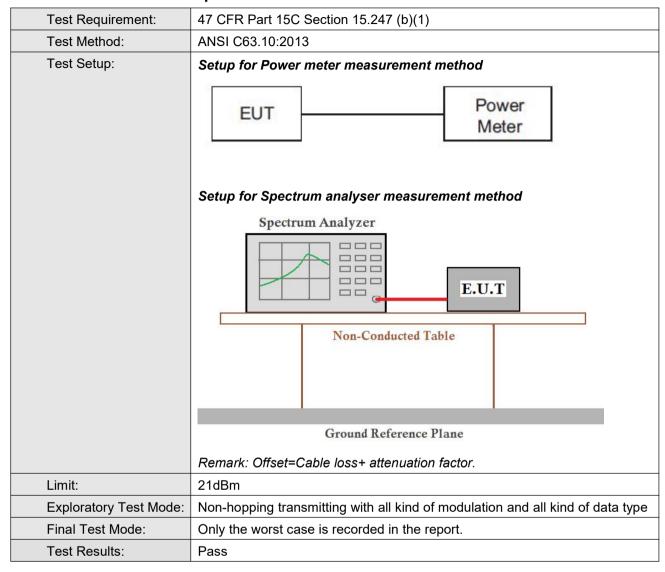
Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



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5.3 Conducted Peak Output Power





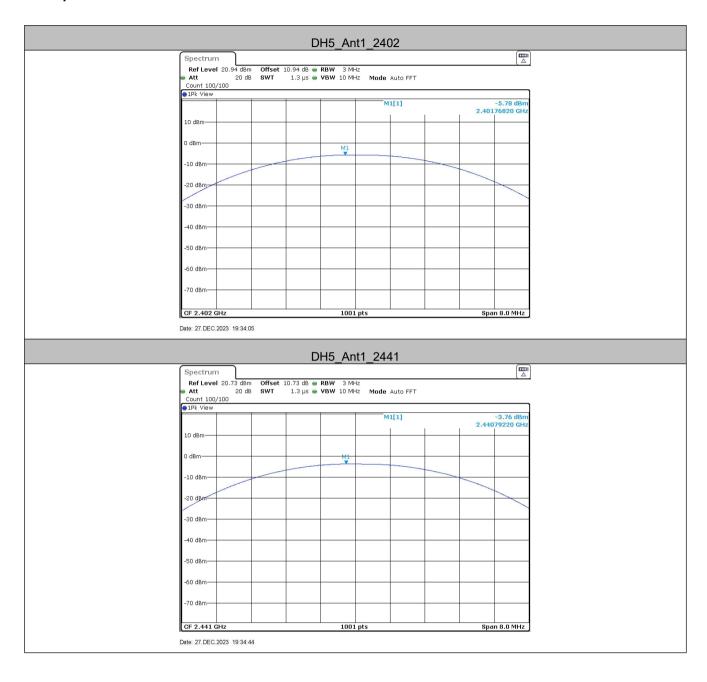
Report No.: CQASZ20231202363E-01

Measurement Data

GFSK mode							
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	-5.78	21.00	Pass				
Middle	-3.76	21.00	Pass				
Highest	-4.54	21.00	Pass				
	π/4DQPSK mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result				
Lowest	-5.13	21.00	Pass				
Middle	Middle -3.01		Pass				
Highest	-3.85	21.00	Pass				



Test plot as follows:







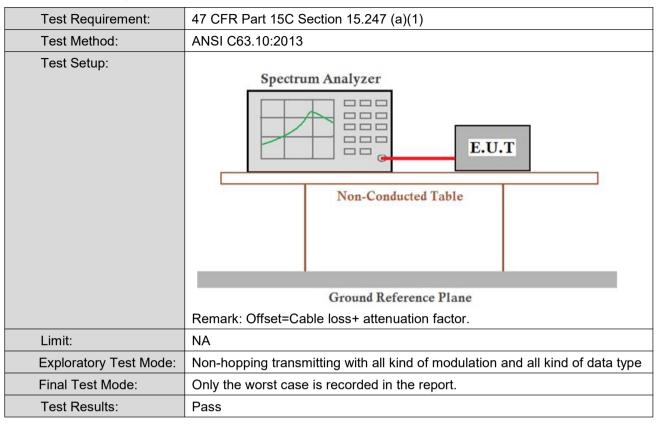






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5.4 20dB Occupied Bandwidth



Measurement Data

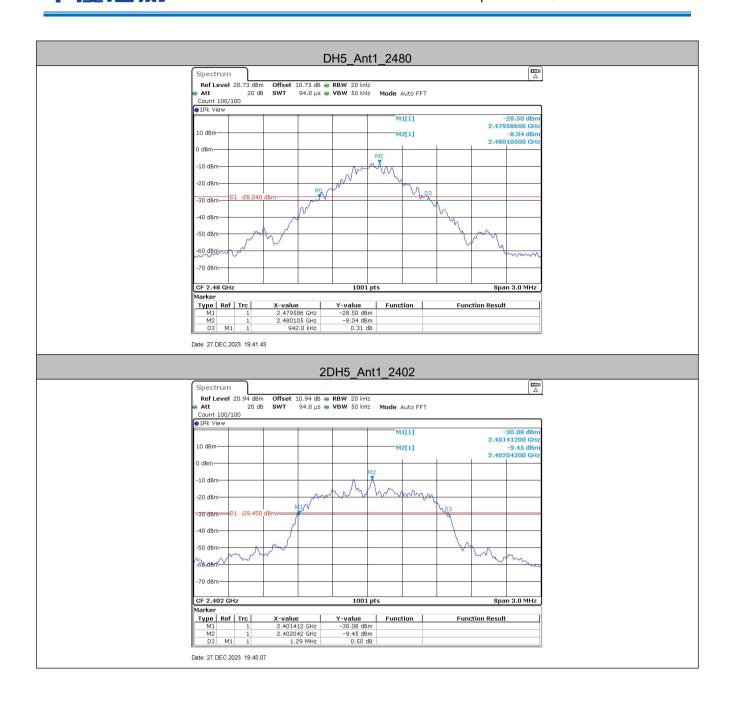
Test channel	20dB Occupy Bandwidth (MHz)		
rest channel	GFSK	π/4DQPSK	
Lowest	0.94	1.29	
Middle	0.94	1.29	
Highest	0.94	1.29	

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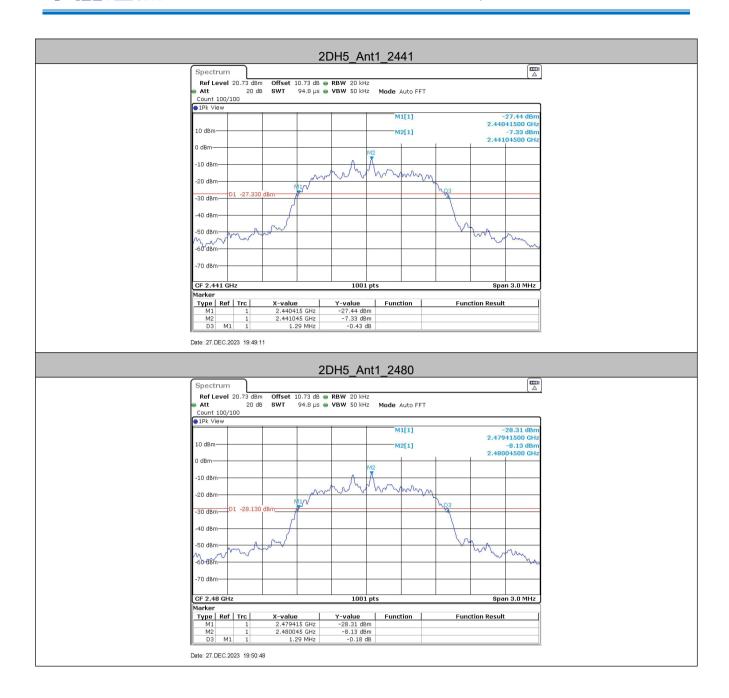
Test plot as follows:















5.5 Carrier Frequencies Separation

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)			
Test Method:	ANSI C63.10:2013			
Test Setup:				
	Spectrum Analyzer E.U.T Non-Conducted Table			
	Ground Reference Plane			
	Remark: Offset=Cable loss+ attenuation factor.			
Limit:	2/3 of the 20dB bandwidth			
	Remark: the transmission power is less than 0.125W.			
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type			
Final Test Mode:	Only the worst case is recorded in the report.			
Test Results:	Pass			



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Measurement Data

TestMode	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Нор	0.997	≥0.627	PASS
2DH5	Нор	0.988	≥0.860	PASS

Mode	20dB bandwidth (MHz)	Limit (MHz)
Wode	(worse case)	(Carrier Frequencies Separation)
GFSK	0.94	≥0.627
π/4DQPSK	1.29	≥0.860



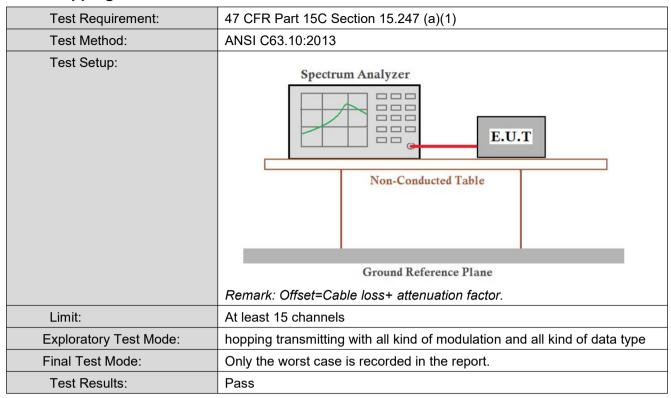
Test plot as follows:





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5.6 Hopping Channel Number

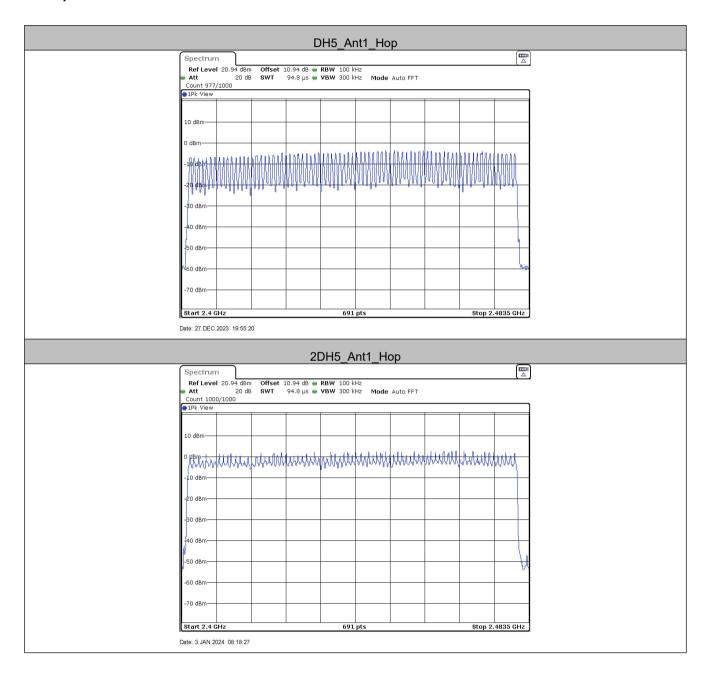


Measurement Data

Mode	Hopping channel numbers	Limit
GFSK	79	≥15
π/4DQPSK	79	≥15



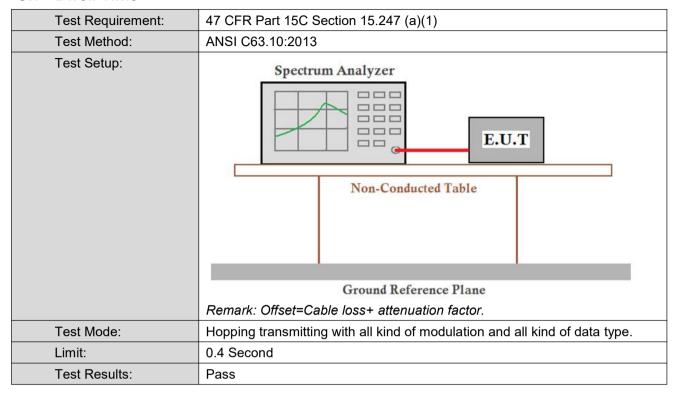
Test plot as follows:







5.7 Dwell Time





Report No.: CQASZ20231202363E-01

Measurement Data

TestMode	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Нор	0.380	320	0.122	≤0.4	PASS
DH3	Нор	1.628	140	0.228	≤0.4	PASS
DH5	Нор	2.869	110	0.316	≤0.4	PASS
2DH1	Нор	0.389	320	0.124	≤0.4	PASS
2DH3	Нор	1.633	160	0.261	≤0.4	PASS
2DH5	Нор	2.874	100	0.287	≤0.4	PASS

Remark:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s



Test plot as follows:

