

# TEST REPORT

Report No. ....: CTC2025278191

FCC ID.....: WNA-HPR305

Applicant .....: Shenzhen Skyworth Digital Technology Co.,LTD.

14/F Unit A. Skyworth Building, Gaoxin Ave.1s., Nanshan Address....:

District, Shenzhen, China

Manufacturer....: Shenzhen Skyworth Digital Technology Co.,LTD.

14/F Unit A. Skyworth Building, Gaoxin Ave.1s., Nanshan Address....:

District, Shenzhen, China

Product Name ....: **UHD OTT Stick** 

SKYWORTH, STRONG, QVWI, COOCAA, MECOOL, Trade Mark .....:

Blaupunkt, EKO

HPR3B Model/Type reference....:

HPR309, HPR305, BPTV30, BPTV30G, BPTV10G, HPR323, Listed Model(s)....:

MEgo1 4K, MEgo1 PRO

Standard .....: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Test Report Form No .....: CTC-TR-059 A2

Master TRF.....: Dated 2025-05-12

Date of receipt of test sample.....: Apr. 24, 2025

Date of testing..... Apr. 24, 2025 ~ May 18, 2025

Date of issue....: Jun. 10, 2025

Result....: **PASS** 

Compiled by:

(Printed name+signature) Lucy Lan

Supervised by:

(Printed name+signature) Eric Zhang

Approved by:

(Printed name+signature) Totti Zhao Lucy lan

Zi - Zhang

Jeans

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TRF No: CTC-TR-059 A2 Society: yz.cncaq.com



3.10.

3.11.

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## 1. TEST SUMMARY

## 1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Operation within the bands 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz.

ANSI C63.10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

# 1.2. Report Version

Revised No.	Report No.	Date of issue	Description
01	CTC2025278191	Jun. 10, 2025	Original

# 1.3. Test Description

FCC Part 15 Subpart C (15.247)						
Test Item	Standard Section	Result	Test Engineer			
Antenna Requirement	15.203	Pass	Ewen			
Conducted Emission	15.207	Pass	Ewen			
Restricted Bands	15.205	Pass	Ewen			
Hopping Channel Separation	15.247(a)(1)	Pass	Ewen			
Dwell Time	15.247(a)(iii)	Pass	Ewen			
Peak Output Power	15.247(b)(1)	Pass	Ewen			
Number of Hopping Frequency	15.247(a)(iii)	Pass	Ewen			
Conducted Band Edge and Spurious Emissions	15.247(d)	Pass	Ewen			
Radiated Band Edge and Spurious Emissions	15.205&15.209& 15.247(d)	Pass	Ewen			
Radiated Spurious Emission	15.247(d) &15.209	Pass	Ewen			
20dB Bandwidth	15.247(a)	Pass	Ewen			

#### Note:

1. The measurement uncertainty is not included in the test result.

2. N/A: means this test item is not applicable for this device according to the technology characteristic of device.

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# 1.4. Test Facility

## Address of the report laboratory

## CTC Laboratories, Inc.

Add: Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

## Laboratory accreditation

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

#### A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

## Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

## FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. 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 951311, Aug 26, 2017.

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1.5. 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 TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the CTC Laboratories, Inc. 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.

Below is the best measurement capability for CTC Laboratories, Inc.

Test Items	Measurement Uncertainty	Notes
20dB Emission Bandwidth	±0.0196%	(1)
Carrier Frequency Separation	±1.9%	(1)
Number of Hopping Channel	±1.9%	(1)
Time of Occupancy	±0.028%	(1)
Max Peak Conducted Output Power	±0.743 dB	(1)
Band-edge Spurious Emission	±1.328 dB	(1)
Conducted RF Spurious Emission	9kHz-1GHz: ±0.746dB 1GHz-26GHz: ±1.328dB	(1)
Conducted Emissions 9kHz~30MHz	±3.08 dB	(1)
Radiated Emissions 30~1000MHz	±4.51 dB	(1)
Radiated Emissions 1~18GHz	±5.84 dB	(1)
Radiated Emissions 18~40GHz	±6.12 dB	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 1.6. Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

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Temperature:	15 °C to 35 °C
Relative Humidity:	20 % to 75 %
Air Pressure:	101 kPa

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# 2. GENERAL INFORMATION

# 2.1. Client Information

Applicant:	Shenzhen Skyworth Digital Technology Co.,LTD.
Address:	14/F Unit A. Skyworth Building, Gaoxin Ave.1s., Nanshan District, Shenzhen, China
Manufacturer:	Shenzhen Skyworth Digital Technology Co.,LTD.
Address:	14/F Unit A. Skyworth Building, Gaoxin Ave.1s., Nanshan District, Shenzhen, China
Factory:	Shenzhen Skyworth Digital Technology Co.,LTD. Baoan Factory
Address:	2-5F,Integration Multi-Storied Building, Skyworth Science and Technology Industrial Park, Tangtou Industrial Zone, Shiyan Street, Baoan District, Shenzhen city, China.

# 2.2. General Description of EUT

Product Name:	UHD OTT Stick			
Trade Mark:	SKYWORTH, STRONG, QVWI, COOCAA, MECOOL, Blaupunkt, EKO			
Model/Type reference:	HPR3B			
Listed Model(s):	HPR309, HPR305, BPTV30, BPTV30G, BPTV10G, HPR323, MEgo1 4K, MEgo1 PRO			
Model Difference:	Only the models name is different, while the internal circuits, wireless modules and antennas are exactly the same.			
Sample ID:	CTC250418-009-S007			
Power Supply:	DC 5V 1A from AC/DC Adapter			
Adapter Model 1 UT-236A-5100 Input: 100-240V~ 50/60Hz 0.2A Output: 5V/1A 5W				
Adapter Model 2	AD-D0930500100US01 Input: 100-240V~ 50/60Hz 0.2A Output: 5V/1A 5W			
Hardware Version:	1			
Software Version:	1			
Bluetooth 5.0 / BR+EDR				
Modulation:	GFSK, π/4-DQPSK, 8-DPSK			
Operation Frequency:	2402MHz~2480MHz			
Channel Number:	79			
Channel Separation:	1MHz			
Antenna Type:	PCB Antenna			
Antenna Gain:	4.83dBi			
	•			





2.3. Accessory Equipment Information

Equipment Information							
Name	Model	S/N	Manufacturer				
Notebook	ThinkPad T460s	1	Lenovo				
Cable Information							
Name	Shielded Type	Ferrite Core	Length				
USB Cable	Unshielded	NO	150cm				
Test Software Information							
Name	Version	1	1				
adb	1	1	1				

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# 2.4. Operation State

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing. BT EDR, 79 channels are provided to the EUT. Channels 00/39/78 were selected for testing.

Operation Frequency List:

Channel	Frequency (MHz)
00	2402
01	2403
:	;
38	2440
39	2441
40	2442
÷	÷
77	2479
78	2480

Note: The display in grey were the channel selected for testing.

## Test Mode:

#### For RF test items:

The engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions:

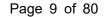
The EUT was set to connect with the Bluetooth instrument under large package sizes transmission.

For Radiated spurious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

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# 2.5. Measurement Instruments List

	Radiated emission							
Item	Test Equipment	Manufact	urer	Model No.	Serial No.	Cal. Date	Cal. Until	
1	Trilog-Broadband Antenna	Schwarzk	oeck	VULB 9163	01026	Dec. 25, 2024	Dec. 24, 2025	
2	Horn Antenna	Schwarzk	oeck	BBHA 9120D	9120D-647	Sep. 26, 2024	Sep. 25, 2025	
3	Test Receiver	Keysig	ht	N9038A	MY5640007	1 Dec. 13, 2024	Dec. 12, 2025	
4	Broadband Amplifier	Schwarzk	oeck	BBV9743B	259	Dec. 13, 2024	Dec. 12, 2025	
5	Mirowave Broadband Amplifier	Schwarzt	oeck	BBV9718C	111	Dec. 13, 2024	Dec. 12, 2025	
6	RE33L-001	COM	И	1	014 (9kHz-1GHz	Feb. 09, 2025	Feb. 08, 2026	
7	RE33L-002	COM	М	1	015 (9kHz-1GHz	Feb. 09, 2025	Feb. 08, 2026	
8	RE33H-001	SUHBE SUCOFL		1	016 (1GHz-18GH	z) Feb. 09, 2025	Feb. 08, 2026	
9	RE33H-002	HUBEN	NR.	1	017 (1GHz-18GH	z) Feb. 09, 2025	Feb. 08, 2026	
10	RE33H-003	HUBEN	NR.	1	018 (1GHz-18GH	z) Feb. 09, 2025	Feb. 08, 2026	
11	RE33H-003	HUBEN	NR.	1	019 (18GHz-40GH	Hz) Feb. 09, 2025	Feb. 08, 2026	
12	3m chamber 3	YIHEN	G EE106		/	Aug. 29, 2023	Aug. 28, 2026	
13	SHF-EHF Horn Antenna	Schwarzk	oeck	BBHA 9170	013551	Dec. 13, 2024	Dec. 12, 2025	
14	Low noise Amplifier	Tonscend		TAP180040048	AP24C80603	48 Dec. 13, 2024	Dec. 12, 2025	
				Test Softwa	re			
	Name			Manufacture	er	Software Version		
	EZ-EMC			FARA	FARA FA-03A2			

	Conducted emission						
Item	Test Equipment	Manufacture	er Model No.	Serial No.	Cal. Date	Cal. Until	
1	LISN	R&S	ENV216	101112	Dec. 13, 2024	Dec. 12, 2025	
2	LISN	R&S	ENV216	101113	Dec. 13, 2024	Dec. 12, 2025	
3	EMI Test Receiver	R&S	ESCI	100524	Dec. 13, 2024	Dec. 12, 2025	
4	ISN CAT6	Schwarzbed	ck NTFM 8158	CAT6-8158-004	6 Dec. 13, 2024	Dec. 12, 2025	
5	ISN CAT5	Schwarzbed	ck NTFM 8158	CAT5-8158-004	6 Dec. 13, 2024	Dec. 12, 2025	
6	CE-001	COMM /		001	Feb. 09, 2025	Feb. 08, 2026	
	Test Software						
Name Manufactur			ırer Software Version		/ersion		
	EMC32		R&S		6.10.	10	





	RF Test System - SRD							
Item	Test Equipment	Manu	facturer	Model No.	Serial No.	Cal. Date	Cal. Until	
1	Spectrum Analyzer	R	&S	FSV40-N	101654	Dec. 13, 2024	Dec. 12, 2025	
2	EXG Analog Signal Generator	Key	/sight	N5173B	MY59100842	Dec. 13, 2024	Dec. 12, 2025	
3	MXG Vector Signal Generator	Keysight		N5182B	MY59100212	Dec. 13, 2024	Dec. 12, 2025	
4	Wideband Radio Communication Tester	R&S		CMW500	102414	Dec. 13, 2024	Dec. 12, 2025	
5	RF Control Unit	Tonscend		JS0806-2	1	Dec. 13, 2024	Dec. 12, 2025	
6	High and low temperature test chamber	ESPEC		MT3035	1	Mar. 25, 2025	Mar. 24, 2026	
7	RF Cable	HUBER+SUHNER		SUCOFLEX101PE	RF-09	Apr. 16, 2025	Apr. 15, 2026	
	Test Software							
Name				Manufacturer			re Version	
	JS1120-3		Tonscend			V3.3.38		

Note: 1. The Cal. Interval was one year.

- 2. The Cal. Interval was three years of the antenna.
- 3. The cable loss has been calculated in test result which connection between each test instruments.

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## 3. TEST ITEM AND RESULTS

## 3.1. Conducted Emission

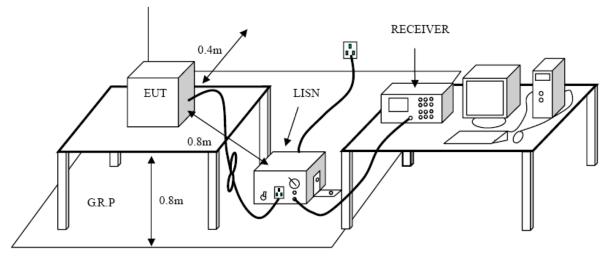
### <u>Limit</u>

## FCC CFR Title 47 Part 15 Subpart C Section 15.207

Fragueros (MIII-)	Conducted Limit (dBµV)		
Frequency (MHz)	Quasi-peak	Average	
0.15 - 0.5	66 to 56 *	56 to 46 *	
0.5 - 5	56	46	
5 - 30	60	50	

<sup>\*</sup> Decreases with the logarithm of the frequency.

## **Test Configuration**



### **Test Procedure**

- 1. The EUT was setup according to ANSI C63.10:2013 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm / 50  $\mu$ H coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

#### **Test Mode**

Please refer to the clause 2.4.



Test Voltage: AC 120V/60Hz
Terminal: Line



## **Final Measurement Detector 1**

	Frequency (MHz)	QuasiPeak (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
Γ	0.492000	37.0	1000.00	9.000	On	L1	9.4	19.1	56.1	
	1.050000	25.9	1000.00	9.000	On	L1	9.6	30.1	56.0	
	2.256000	28.3	1000.00	9.000	On	L1	9.7	27.7	56.0	

# Final Measurement Detector 2

	Frequency (MHz)	Average (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
ı	0.492000	31.4	1000.00	9.000	On	L1	9.4	14.7	46.1	
	0.532500	26.8	1000.00	9.000	On	L1	9.4	19.2	46.0	
	2.305500	21.0	1000.00	9.000	On	L1	9.6	25.0	46.0	

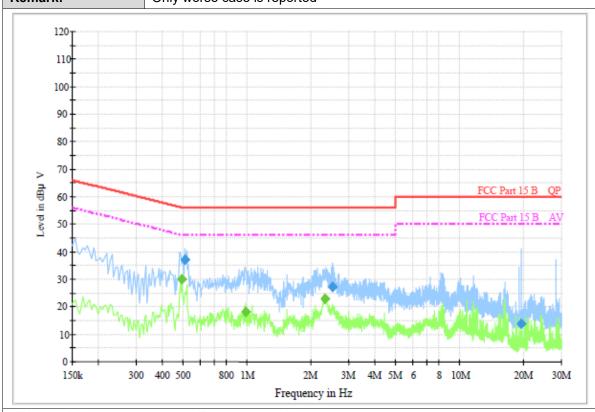
Emission Level = Read Level + Correct Factor



Test Voltage: AC 120V/60Hz

Terminal: Neutral

Remark: Only worse case is reported



# Final Measurement Detector 1

	Frequency (MHz)	QuasiPeak (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
	0.510000	37.2	1000.00	9.000	On	N	9.6	18.8	56.0	
	2.526000	27.1	1000.00	9.000	On	N	9.5	28.9	56.0	
[	19.450500	14.0	1000.00	9.000	On	N	9.6	46.0	60.0	

## Final Measurement Detector 2

Frequency	Average	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit	Comment
(MHz)	(dBµ V)	Time	(kHz)			(dB)	(dB)	(dBµ	
		(ms)						V)	
0.492000	30.1	1000.00	9.000	On	N	9.6	16.0	46.1	
0.982500	18.2	1000.00	9.000	On	N	9.5	27.8	46.0	
2.305500	22.8	1000.00	9.000	On	N	9.4	23.2	46.0	

Emission Level = Read Level + Correct Factor



## 3.2. Radiated Emission

## **Limit**

## FCC CFR Title 47 Part 15 Subpart C Section 15.209

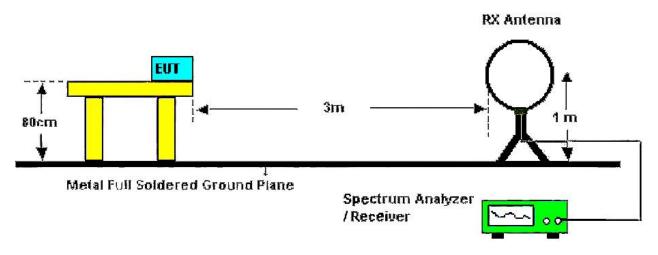
Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009~0.490	2400/F (kHz)	300
0.490~1.705	24000/F (kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Frequency Pango (MHz)	dBµV/m (at 3 meters)				
Frequency Range (MHz)	Peak	Average			
Above 1000	74	54			

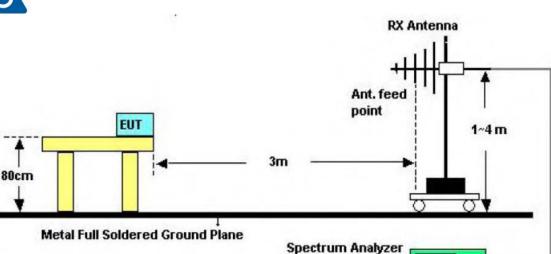
#### Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBμV/m)=20log Emission Level (μV/m).

## **Test Configuration**

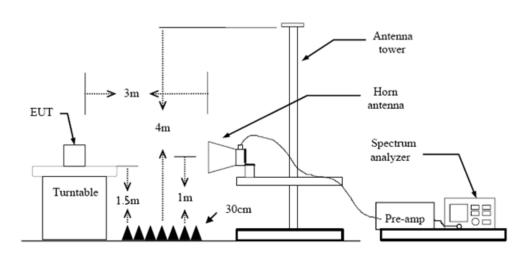


Below 30MHz Test Setup



/Receiver

30-1000MHz Test Setup



Above 1GHz Test Setup

### **Test Procedure**

- 1. The EUT was setup and tested according to ANSI C63.10:2013.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- 6. Use the following spectrum analyzer settings
- (1) Span shall wide enough to fully capture the emission being measured;
- (2) 9k 150kHz:

RBW=300 Hz, VBW=1 kHz, Sweep=auto, Detector function=peak, Trace=max hold

(3) 0.15M - 30MHz:

RBW=10 kHz, VBW=30 kHz, Sweep=auto, Detector function=peak, Trace=max hold

(4) 30M - 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold

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If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

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(5) From 1 GHz to 10<sup>th</sup> harmonic:

RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.10 Duty Cycle.

## **Test Mode**

Please refer to the clause 2.4.

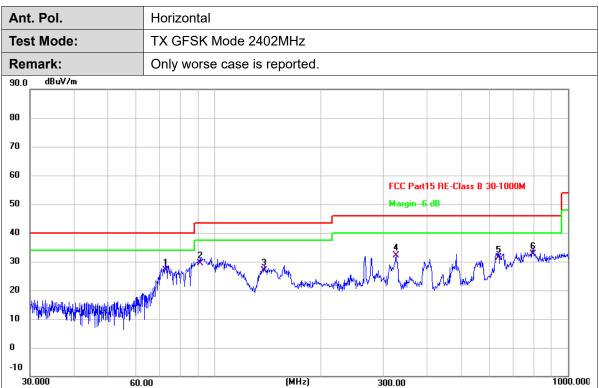
### **Test Result**

#### 9 kHz~30 MHz

From 9 kHz to 30 MHz: The conclusion is PASS.

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	72.8466	46.27	-19.51	26.76	40.00	-13.24	QP
2	91.1745	49.87	-20.55	29.32	43.50	-14.18	QP
3	137.9028	43.76	-16.95	26.81	43.50	-16.69	QP
4	325.5958	47.25	-15.06	32.19	46.00	-13.81	QP
5	636.1340	38.36	-7.01	31.35	46.00	-14.65	QP
6	796.1829	36.06	-3.32	32.74	46.00	-13.26	QP

#### Remarks

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

<sup>2.</sup>Margin value = Level -Limit value





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	30.3173	47.88	-16.14	31.74	40.00	-8.26	QP
2	88.3421	55.76	-20.56	35.20	43.50	-8.30	QP
3	106.3850	54.31	-19.57	34.74	43.50	-8.76	QP
4	116.1321	52.11	-18.64	33.47	43.50	-10.03	QP
5	266.6089	48.57	-16.87	31.70	46.00	-14.30	QP
6	651.9417	42.05	-6.66	35.39	46.00	-10.61	QP

#### Remarks:

<sup>1.</sup>Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

<sup>2.</sup>Margin value = Level -Limit value





Ant. Pol.	Horizontal
Test Mode:	TX GFSK Mode 2402MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4803.195	-5.94	36.56	30.62	54.00	-23.38	AVG
2	4803.297	10.88	36.56	47.44	74.00	-26.56	peak

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

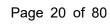
2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX GFSK Mode 2402MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4804.716	11.73	36.56	48.29	74.00	-25.71	peak
2 *	4804.740	-5.11	36.56	31.45	54.00	-22.55	AVG

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





Ant. Pol.	Horizontal
Test Mode:	TX GFSK Mode 2441MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4881.430	11.37	36.75	48.12	74.00	-25.88	peak
2 *	4881.741	-5.91	36.75	30.84	54.00	-23.16	AVG

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX GFSK Mode 2441MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4881.257	-5.64	36.75	31.11	54.00	-22.89	AVG
2	4882.649	10.97	36.76	47.73	74.00	-26.27	peak

#### Remarks

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





Ant. Pol.	Horizontal
Test Mode:	TX GFSK Mode 2480MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4960.231	-5.78	36.94	31.16	54.00	-22.84	AVG
2	4960.678	10.11	36.94	47.05	74.00	-26.95	peak

#### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX GFSK Mode 2480MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4959.227	11.31	36.94	48.25	74.00	-25.75	peak
2 *	4960.049	-5.87	36.94	31.07	54.00	-22.93	AVG

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





Ant. Pol.	Horizontal
Test Mode:	TX π/4-DQPSK Mode 2402MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4803.421	-5.79	36.56	30.77	54.00	-23.23	AVG
2	4804.463	11.34	36.56	47.90	74.00	-26.10	peak

#### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX π/4-DQPSK Mode 2402MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4804.129	-5.70	36.56	30.86	54.00	-23.14	AVG
2	4804.663	11.44	36.56	48.00	74.00	-26.00	peak

### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





Ant. Pol.	Horizontal
Test Mode:	TX π/4-DQPSK Mode 2441MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector
1 *	4881.063	-5.82	36.75	30.93	54.00	-23.07	AVG
2	4881.865	11.74	36.75	48.49	74.00	-25.51	peak

#### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

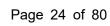
2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX π/4-DQPSK Mode 2441MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4881.459	-5.93	36.75	30.82	54.00	-23.18	AVG
2	4882.017	11.22	36.75	47.97	74.00	-26.03	peak

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





Ant. Pol.	Horizontal
Test Mode:	TX π/4-DQPSK Mode 2480MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4959.799	11.01	36.94	47.95	74.00	-26.05	peak
2 *	4960.372	-5.86	36.94	31.08	54.00	-22.92	AVG

#### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX π/4-DQPSK Mode 2480MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4959.306	11.00	36.94	47.94	74.00	-26.06	peak
2 *	4959.707	-5.85	36.94	31.09	54.00	-22.91	AVG

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





Ant. Pol.	Horizontal
Test Mode:	TX 8-DPSK Mode 2402MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4804.167	11.28	36.56	47.84	74.00	-26.16	peak
2 *	4804.277	-5.93	36.56	30.63	54.00	-23.37	AVG

### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX 8-DPSK Mode 2402MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4803.111	-5.76	36.56	30.80	54.00	-23.20	AVG
2	4804.226	10.67	36.56	47.23	74.00	-26.77	peak

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





Ant. Pol.	Horizontal
Test Mode:	TX 8-DPSK Mode 2441MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4882.605	10.80	36.76	47.56	74.00	-26.44	peak
2 *	4882.910	-5.79	36.76	30.97	54.00	-23.03	AVG

### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX 8-DPSK Mode 2441MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)			Detector
1	4881.303	10.87	36.75	47.62	74.00	-26.38	peak
2 *	4881.333	-5.78	36.75	30.97	54.00	-23.03	AVG

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





Ant. Pol.	Horizontal
Test Mode:	TX 8-DPSK Mode 2480MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4959.565	11.07	36.94	48.01	74.00	-25.99	peak
2 *	4960.507	-5.96	36.94	30.98	54.00	-23.02	AVG

#### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX 8-DPSK Mode 2480MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4960.147	-5.90	36.94	31.04	54.00	-22.96	AVG
2	4960.329	10.04	36.94	46.98	74.00	-27.02	peak

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



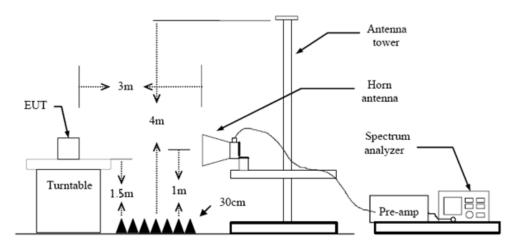
# 3.3. Band Edge Emissions (Radiated)

## **Limit**

## FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d)

Restricted Frequency Band	(dBµV/m) (at 3m)			
(MHz)	Peak	Average		
2310 ~ 2390	74	54		
2483.5 ~ 2500	74	54		

## **Test Configuration**



## **Test Procedure**

- 1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- The receiver set as follow:

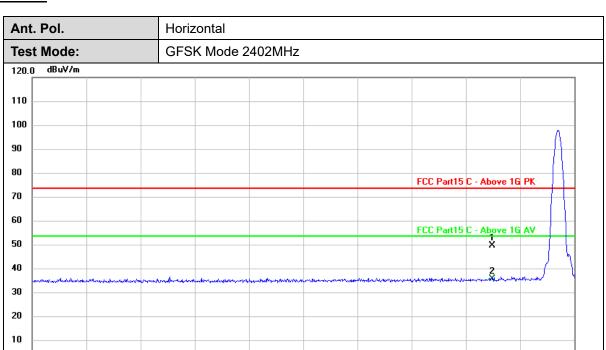
RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.10 Duty Cycle.

#### **Test Mode**

Please refer to the clause 2.4.



No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	19.03	31.31	50.34	74.00	-23.66	peak
2 *	2390.000	5.00	31.31	36.31	54.00	-17.69	AVG

(MHz)

2365.00

2375.00

2385.00

2395.00

2405.00

## Remarks:

0.0

2305.000 2315.00

2325.00

2335.00

2345.00

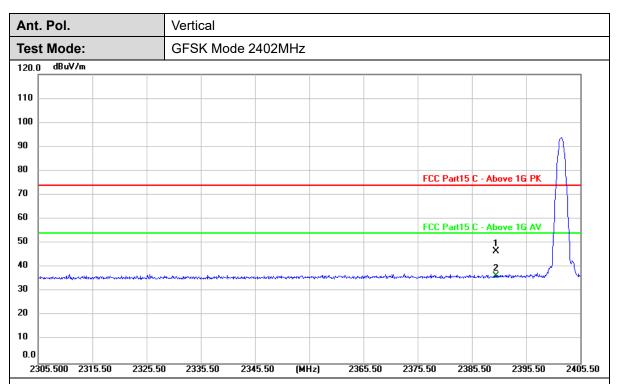
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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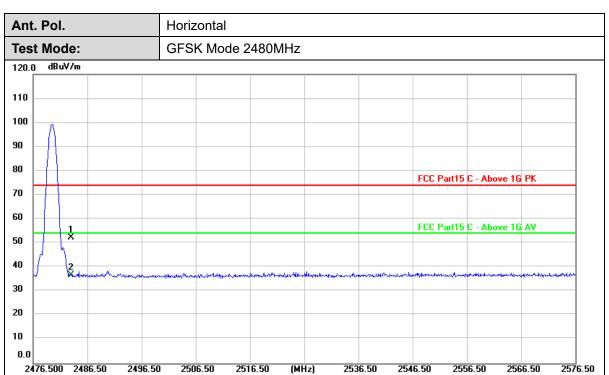


No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	15.36	31.31	46.67	74.00	-27.33	peak
2 *	2390.000	5.18	31.31	36.49	54.00	-17.51	AVG

#### Remarks

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



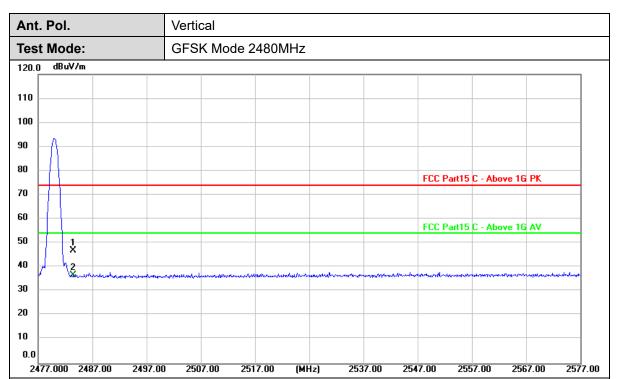


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	20.80	31.50	52.30	74.00	-21.70	peak
2 *	2483.500	5.13	31.50	36.63	54.00	-17.37	AVG

### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



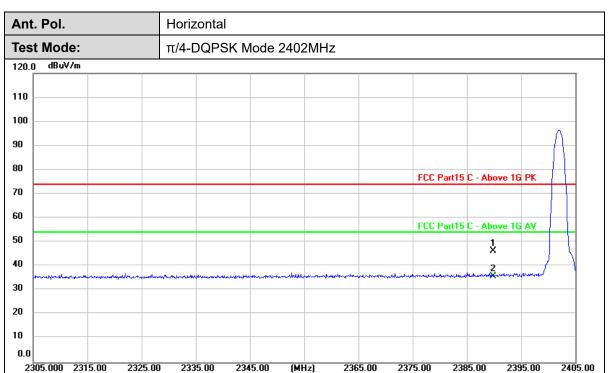


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	15.54	31.50	47.04	74.00	-26.96	peak
2 *	2483.500	5.16	31.50	36.66	54.00	-17.34	AVG

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



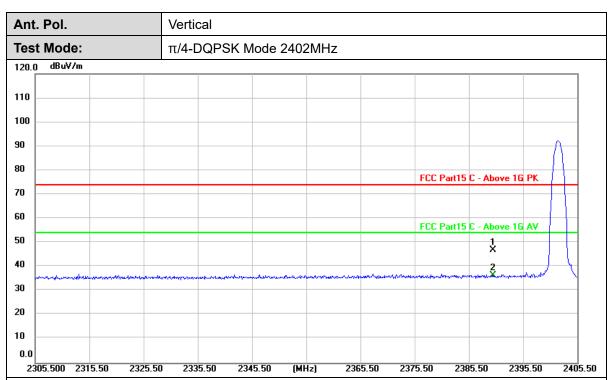


No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	14.91	31.31	46.22	74.00	-27.78	peak
2 *	2390.000	4.59	31.31	35.90	54.00	-18.10	AVG

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





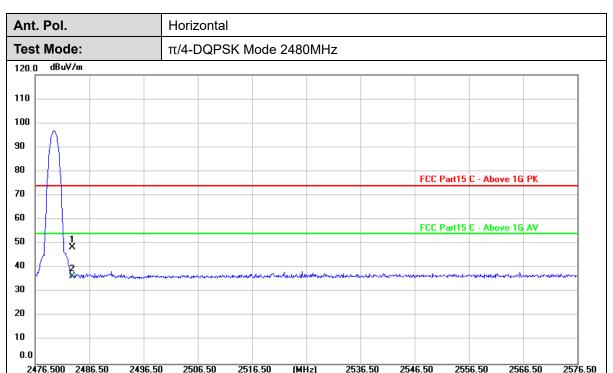
No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	15.51	31.31	46.82	74.00	-27.18	peak
2 *	2390.000	5.08	31.31	36.39	54.00	-17.61	AVG

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

<sup>2.</sup>Margin value = Level -Limit value



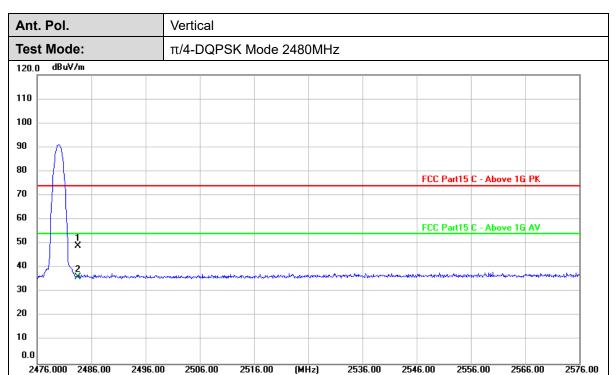


No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	17.05	31.50	48.55	74.00	-25.45	peak
2 *	2483.500	4.81	31.50	36.31	54.00	-17.69	AVG

#### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor



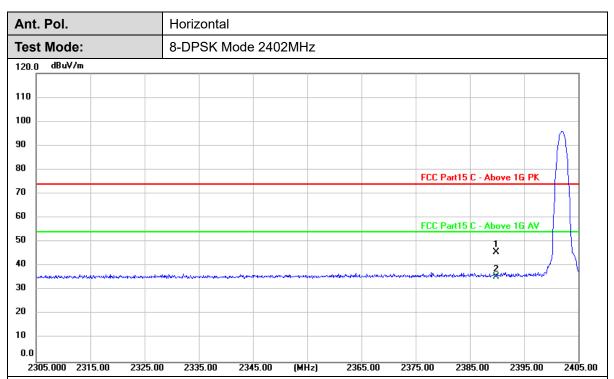


No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	17.47	31.50	48.97	74.00	-25.03	peak
2 *	2483.500	4.60	31.50	36.10	54.00	-17.90	AVG

## Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor





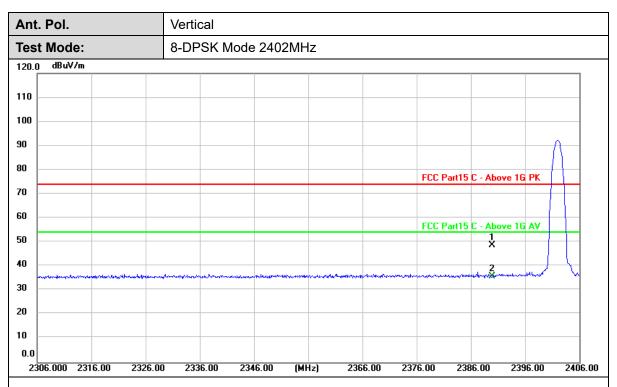
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	14.58	31.31	45.89	74.00	-28.11	peak
2 *	2390.000	4.26	31.31	35.57	54.00	-18.43	AVG

#### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value





No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector
1	2390.000	17.37	31.31	48.68	74.00	-25.32	peak
2 *	2390.000	4.50	31.31	35.81	54.00	-18.19	AVG

#### Remarks

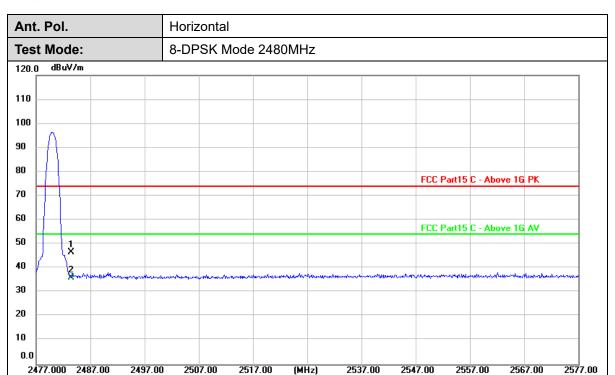
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

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<sup>2.</sup>Margin value = Level -Limit value





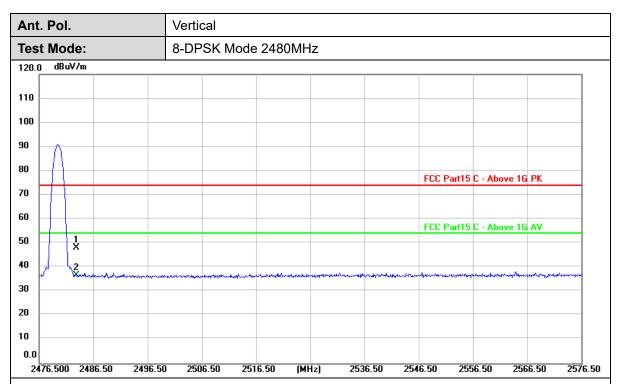
No	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	15.12	31.50	46.62	74.00	-27.38	peak
2	2483.500	4.56	31.50	36.06	54.00	-17.94	AVG

#### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value





No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)		Margin (dB)	Detector
1	2483.500	16.65	31.50	48.15	74.00	-25.85	peak
2 *	2483.500	5.28	31.50	36.78	54.00	-17.22	AVG

### Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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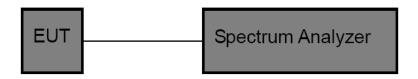
# 3.4. Band Edge and Spurious Emissions (Conducted)

#### Limit

## FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

## **Test Configuration**



#### **Test Procedure**

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- Use the following spectrum analyzer settings: RBW = 100 kHz, VBW ≥ RBW, scan up through 10<sup>th</sup> harmonic. Sweep = auto, Detector function = peak, Trace = max hold.
- 4. Measure and record the results in the test report.

#### **Test Mode**

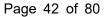
Please refer to the clause 2.4.

## **Test Result**

#### **Band Edge Conducted Test**

TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
		Low	2402	2.05	-46.47	≤-17.95	PASS
DH5	Ant1	High	2480	0.90	-43.72	≤-19.1	PASS
טחט	Anti	Low	Hop_2402	1.68	-45.94	≤-18.32	PASS
		High	Hop_2480	1.00	-45.47	≤-19	PASS
	Ant1	Low	2402	1.30	-46.55	≤-18.7	PASS
2DH5		High	2480	-0.52	-45.53	≤-20.52	PASS
2003		Low	Hop_2402	2.70	-46.66	≤-17.3	PASS
		High	Hop_2480	-0.61	-45.22	≤-20.61	PASS
		Low	2402	0.75	-46.48	≤-19.25	PASS
3DH5	A m+1	High	2480	-0.15	-44.63	≤-20.15	PASS
	Ant1	Low	Hop_2402	2.17	-46.24	≤-17.83	PASS
		High	Hop_2480	-1.37	-45.13	≤-21.37	PASS

TRF No: CTC-TR-059\_A2 For anti-fake verification, please visit the official website of China Inspection And Testing Society: <a href="mailto:yz.cncaq.com">yz.cncaq.com</a>





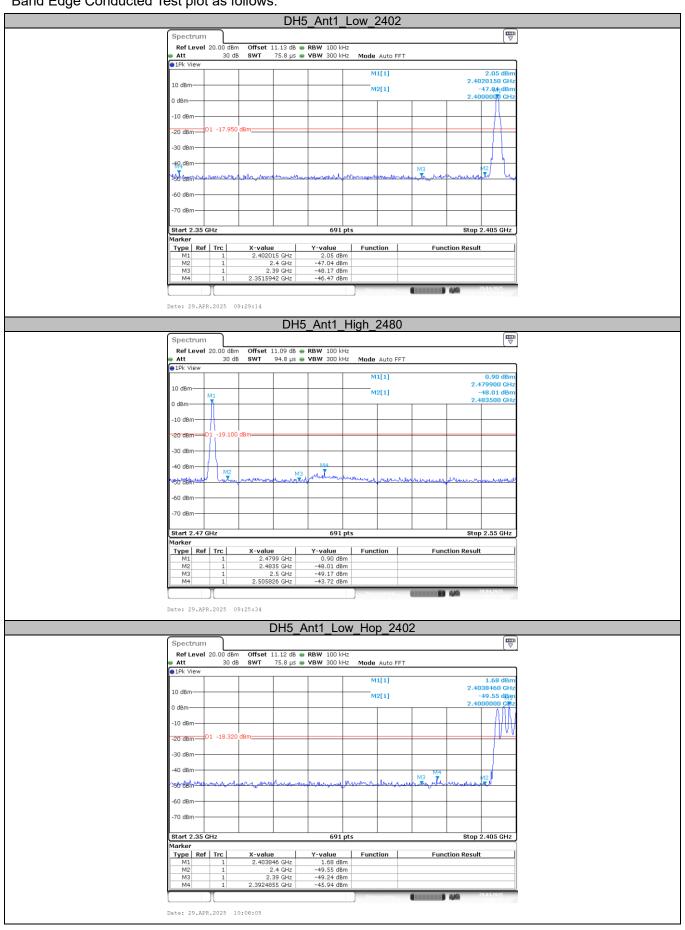
**Conducted Spurious Emissions Test** 

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
		2402	Reference	2.24	2.24		PASS
			30~1000	2.24	-46.74	≤-17.76	PASS
			1000~26500	2.24	-48.54	≤-17.76	PASS
			Reference	2.22	2.22		PASS
DH5	Ant1	2441	30~1000	2.22	-45.97	≤-17.78	PASS
			1000~26500	2.22	-48.36	≤-17.78	PASS
			Reference	1.16	1.16		PASS
		2480	30~1000	1.16	-45.06	≤-18.84	PASS
			1000~26500	1.16	-48.32	≤-18.84	PASS
	Ant1		Reference	1.20	1.20		PASS
		2402	30~1000	1.20	-44.79	≤-18.8	PASS
			1000~26500	1.20	-48.04	≤-18.8	PASS
		Ant1 2441 2480	Reference	0.76	0.76		PASS
2DH5			30~1000	0.76	-45.72	≤-19.24	PASS
			1000~26500	0.76	-48.6	≤-19.24	PASS
			Reference	-0.08	-0.08		PASS
			30~1000	-0.08	-45.94	≤-20.08	PASS
			1000~26500	-0.08	-49.07	≤-20.08	PASS
			Reference	0.95	0.95		PASS
		2402	30~1000	0.95	-45.88	≤-19.05	PASS
			1000~26500	0.95	-47.91	≤-19.05	PASS
3DH5			Reference	0.48	0.48		PASS
	Ant1	2441	30~1000	0.48	-46.56	≤-19.52	PASS
			1000~26500	0.48	-48.96	≤-19.52	PASS
		2480	Reference	0.24	0.24		PASS
			30~1000	0.24	-46.37	≤-19.76	PASS
			1000~26500	0.24	-48.74	≤-19.76	PASS

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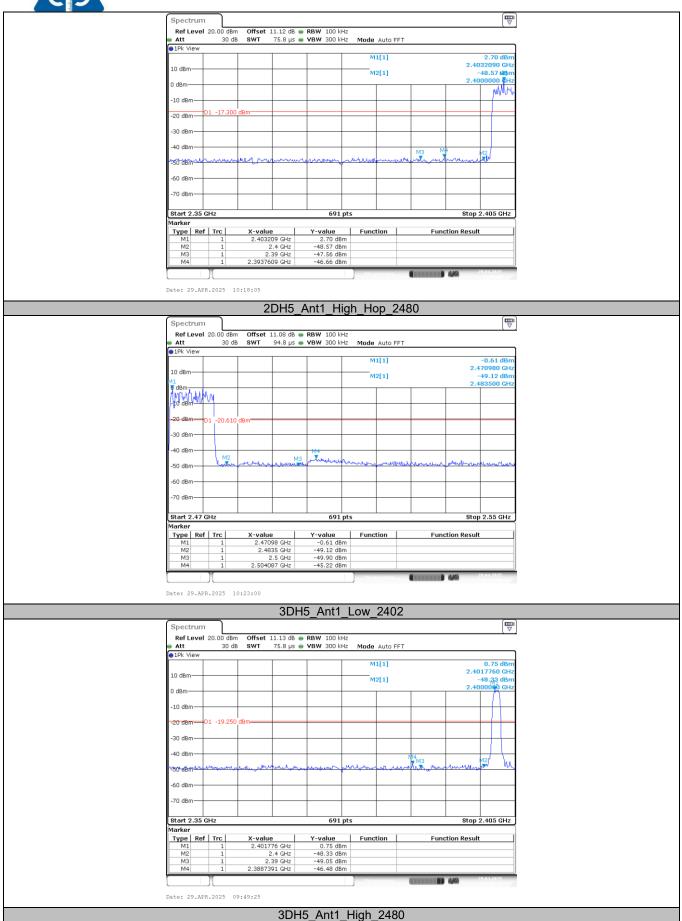
## Band Edge Conducted Test plot as follows:



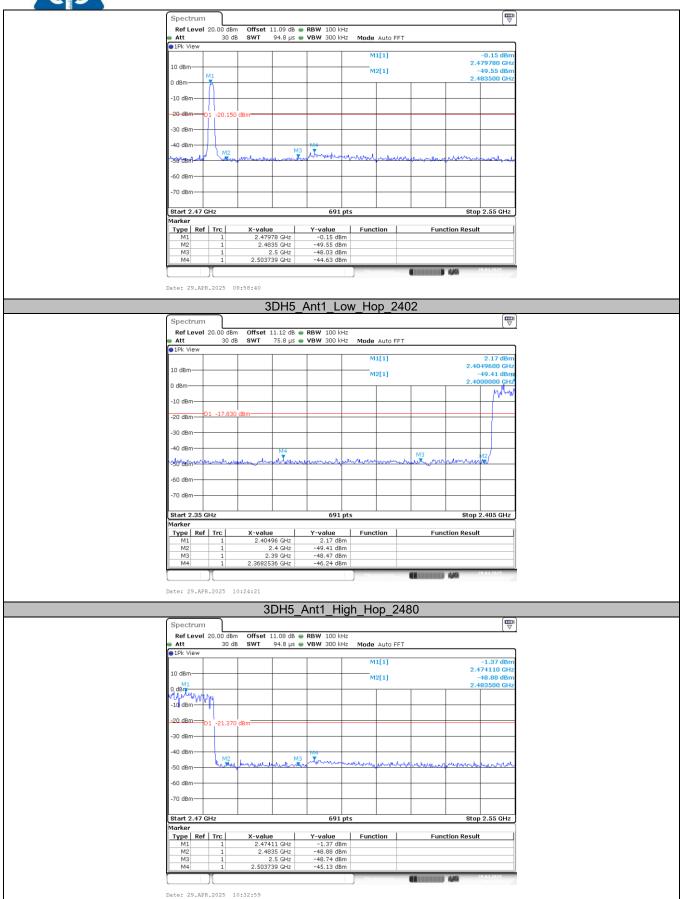




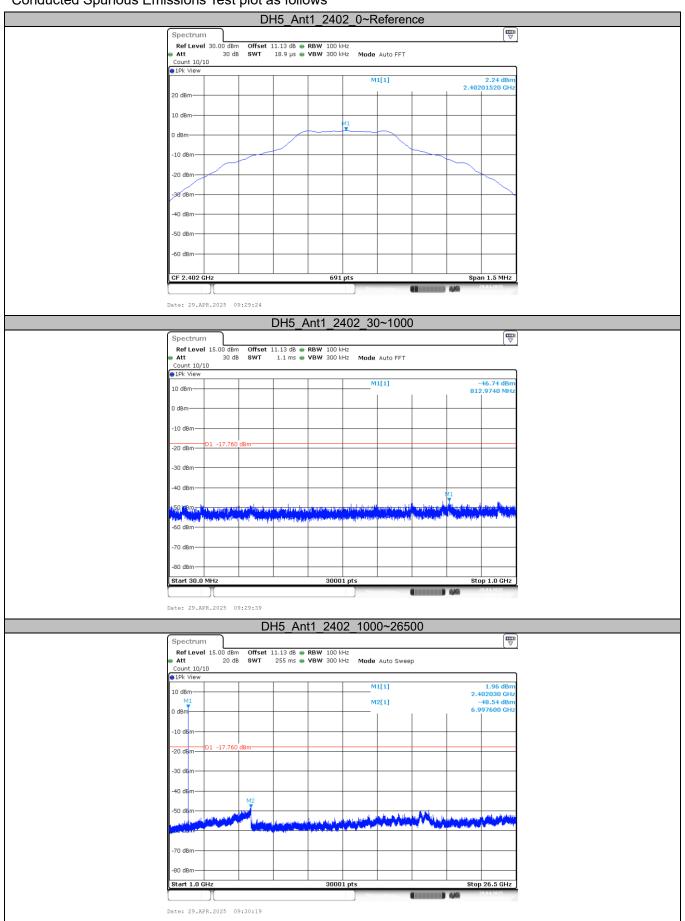




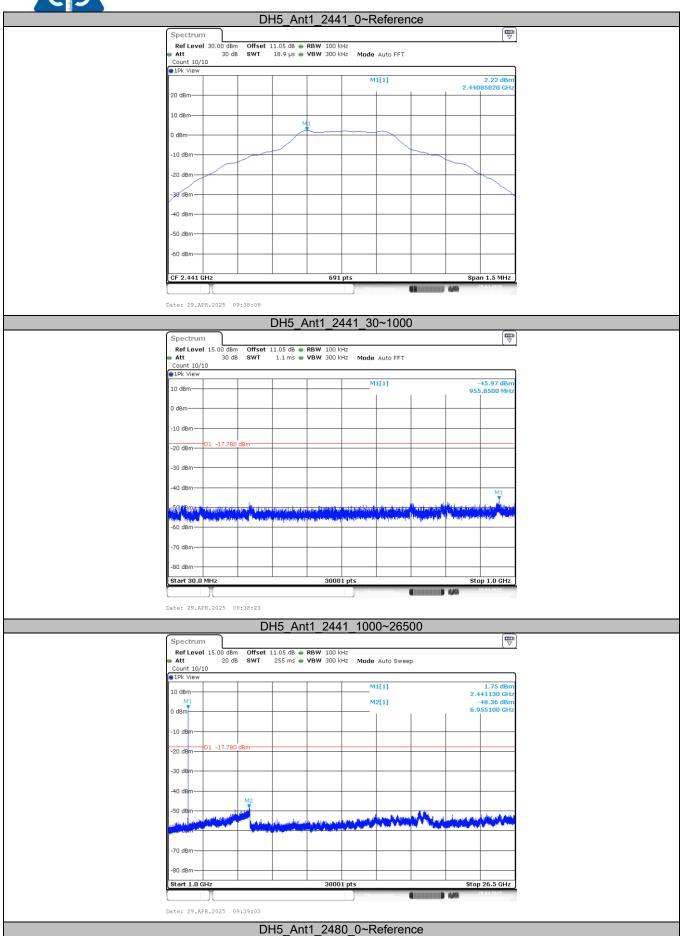




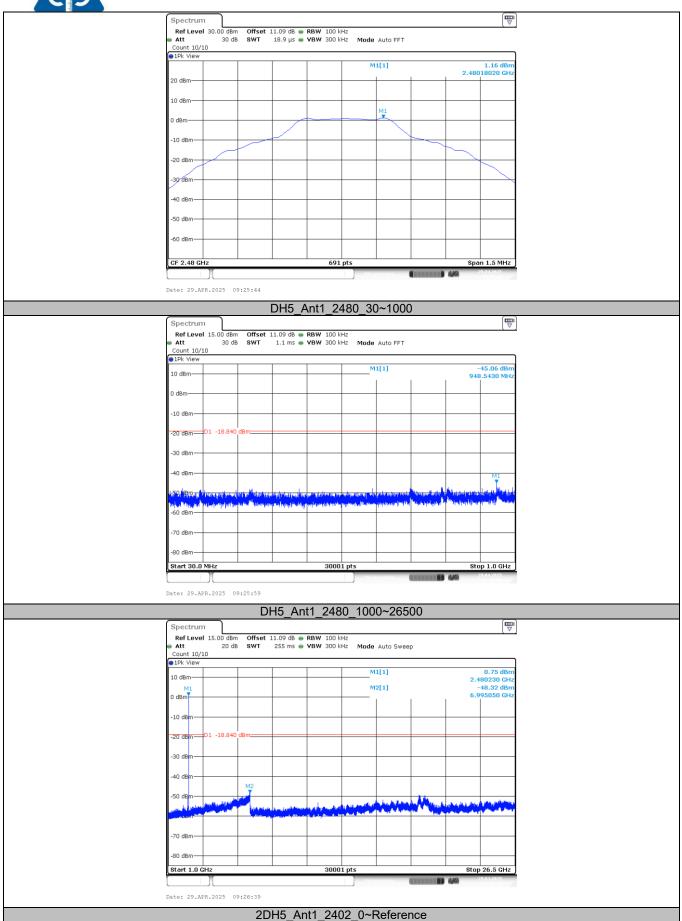
## Conducted Spurious Emissions Test plot as follows



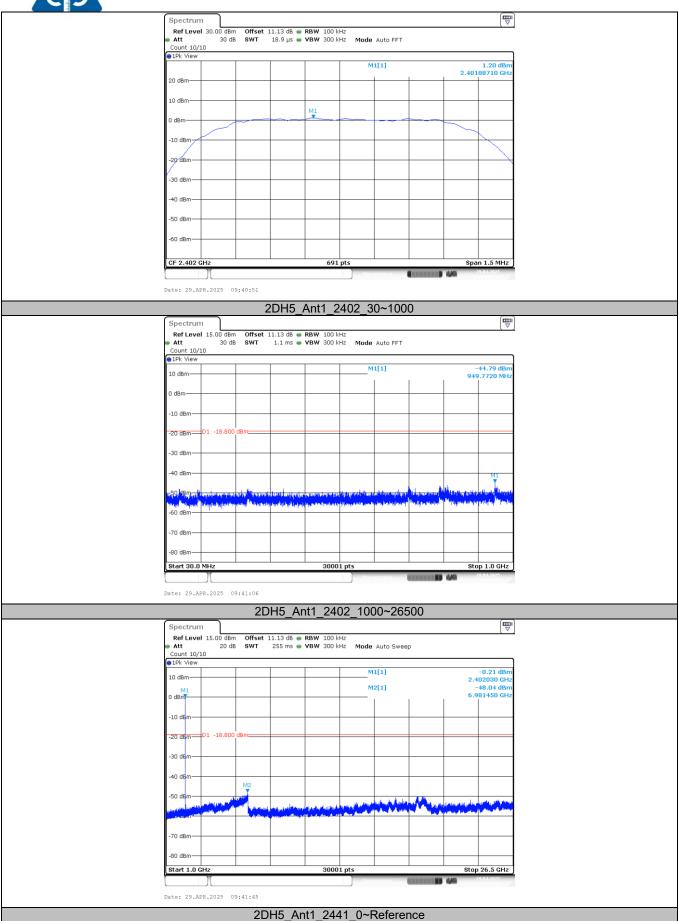




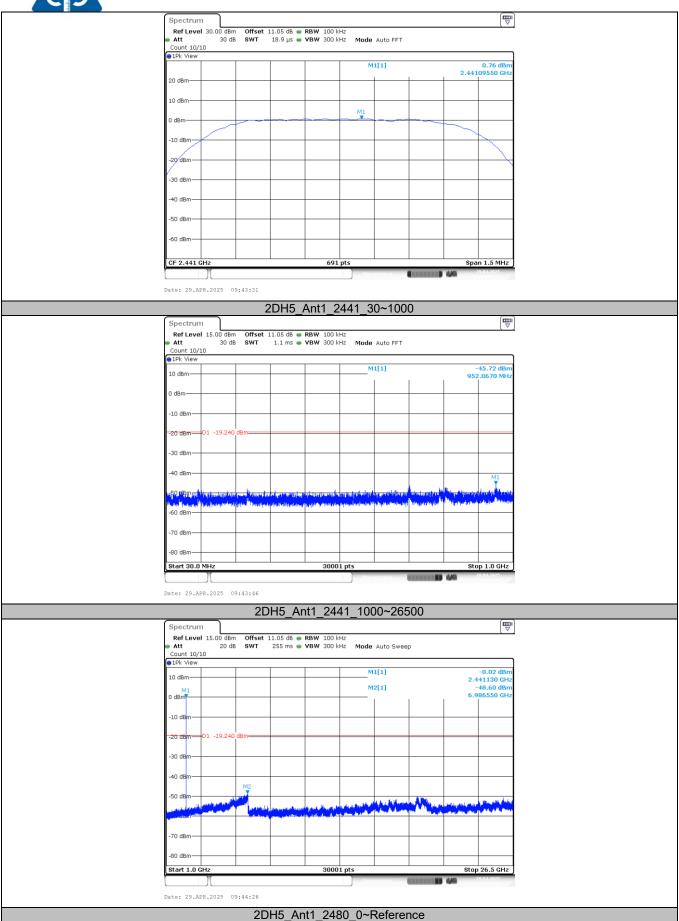




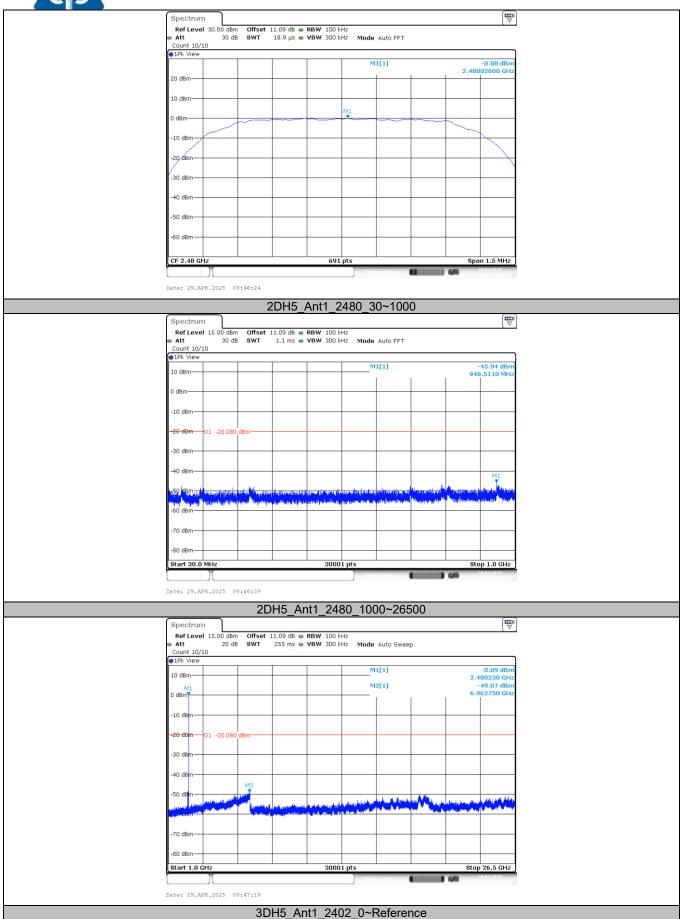




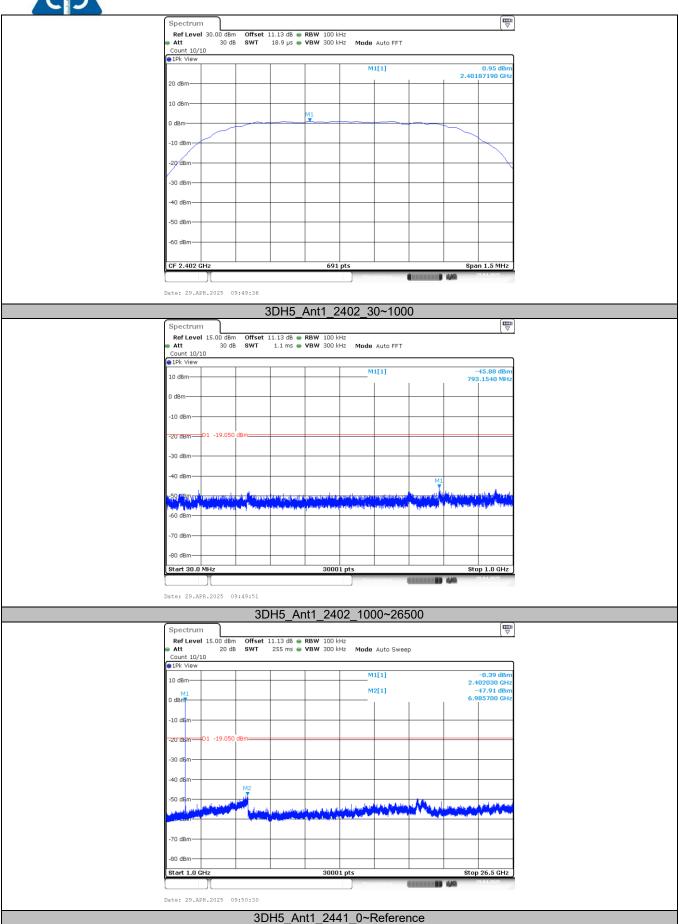




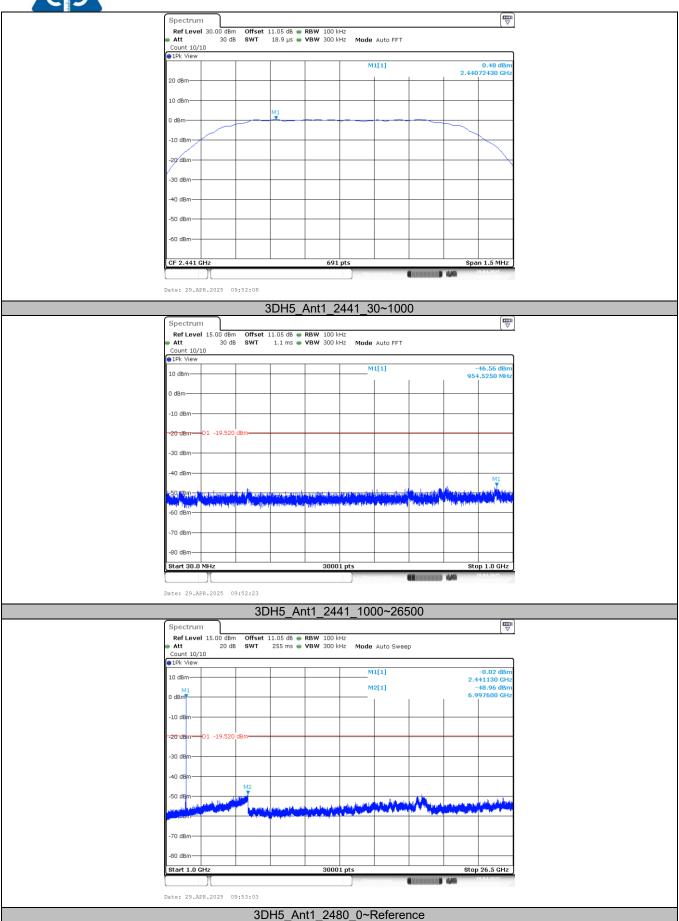




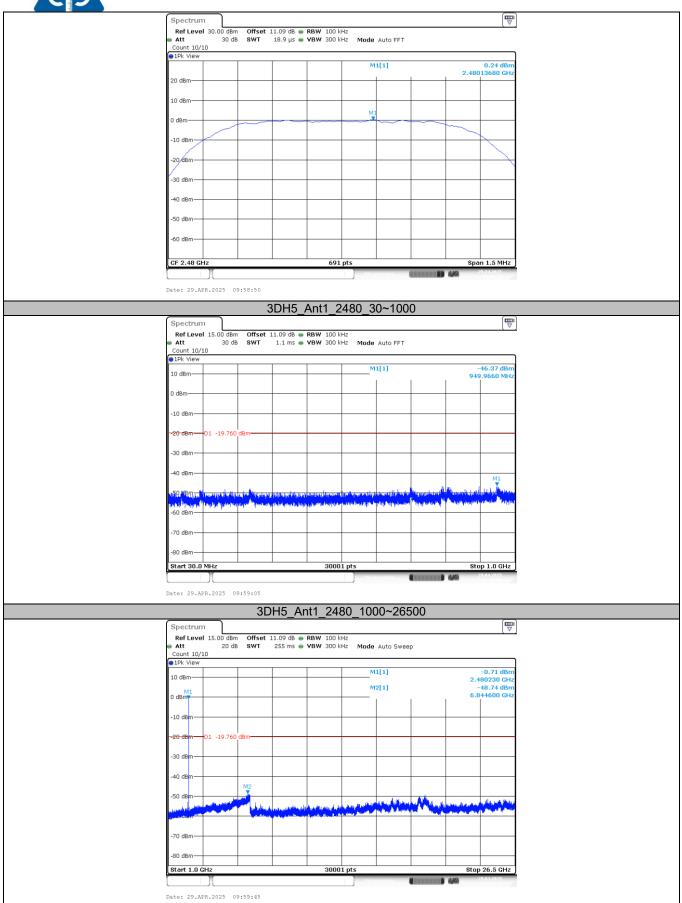










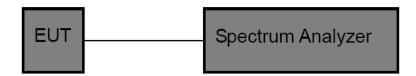


## 3.5. 20dB Bandwidth

## **Limit**

N/A

## **Test Configuration**



## **Test Procedure**

- 1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- 2. OCB and 20dB Spectrum Setting:
  - (1) Set RBW = 1% ~ 5% occupied bandwidth.
  - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
  - (3) Detector = Peak.
  - (4) Trace mode = Max hold.
  - (5) Sweep = Auto couple.

Note: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

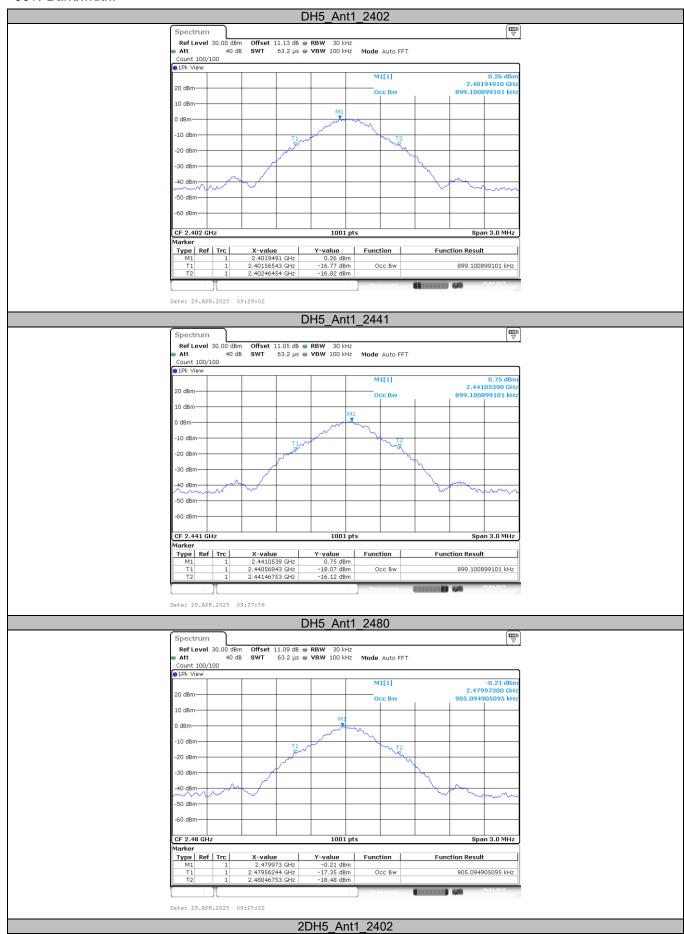
### **Test Mode**

Please refer to the clause 2.4.

#### **Test Result**

Test Mode	Frequency	99% Bandwidth	20dB Bandwidth	20dB Bandwidth
lest Mode	(MHz)	(MHz)	(MHz)	*2/3 (MHz)
	2402	0.899	1.03	0.687
GFSK	2441	0.899	0.98	0.653
	2480	0.905	1.04	0.693
	2402	1.19	1.36	0.907
π/4-DQPSK	2441	1.199	1.36	0.907
	2480	1.193	1.37	0.913
	2402	1.19	1.36	0.907
8-DPSK	2441	1.193	1.35	0.900
	2480	1.193	1.37	0.913

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CTC Laboratories, Inc.



