FCC RF Test Report

APPLICANT : NOTHING TECHNOLOGY LIMITED

EQUIPMENT: Smart Phone

BRAND NAME : NOTHING

MODEL NAME : A059

FCC ID : 2AZEQ-24111

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DSS) Spread Spectrum Transmitter

TEST DATE(S) : Oct. 23, 2024 ~ Dec. 03, 2024

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

JasonJia

Approved by: Jason Jia





Report No.: FR490417A

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

Sporton International Inc. (ShenZhen)

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Report Issued Date : Dec. 10, 2024
Report Version : Rev. 01

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Report Template No.: BU5-FR15CBT Version 2.0

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR490417A	Rev. 01	Initial issue of report	Dec. 10, 2024

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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(1)	Number of Channels	≥ 15Chs	Pass	-
3.2	15.247(a)(1)	Hopping Channel Separation	≥ 2/3 of 20dB BW	Pass	-
3.3	15.247(a)(1)	Dwell Time of Each Channel	≤ 0.4sec in 31.6sec period	Pass	-
3.4	15.247(a)(1)	20dB Bandwidth	-	Report only	-
3.4	-	99% Bandwidth	-	Report only	-
3.5	15.247(b)(1)	Peak Output Power	≤ 125 mW	Pass	-
3.6	15.247(d)	Conducted Band Edges	≤ 20dBc	Pass	-
3.7	3.7 Conducted Spurious Emission		≤ 20dBc	Pass	-
3.8	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 14.91 dB at 783.690 MHz
3.9	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 8.71 dB at 0.240 MHz
3.10	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or
 in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of
 non-compliance that may potentially occur if measurement uncertainty is taken into account.
- 2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

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1 General Description

1.1 Applicant

NOTHING TECHNOLOGY LIMITED

Bedford House, 21A John Street, London, United Kingdom WC1N 2BF

1.2 Manufacturer

NOTHING TECHNOLOGY LIMITED

Bedford House, 21A John Street, London, United Kingdom WC1N 2BF

1.3 Product Feature of Equipment Under Test

Product Feature					
Equipment Smart Phone					
Brand Name	NOTHING				
Model Name	A059				
FCC ID	2AZEQ-24111				
IMEI Code	Conducted: 359866264025322/359866264025330 Conduction: 359866264025587/359866264025595 Radiation: 3598662640266981/359866264026999				
HW Version	24111				
SW Version	Nothing OS 3.1				
EUT Stage	Identical Prototype				

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification				
Tx/Rx Frequency Range	2402 MHz ~ 2480 MHz			
Number of Channels	79			
Carrier Frequency of Each Channel	2402+n*1 MHz; n=0~78			
Maximum Output Power to Antenna	<ant.6></ant.6> Bluetooth BR(1Mbps): 18.20 dBm (0.0661 W) Bluetooth EDR (2Mbps): 17.40 dBm (0.0550 W) Bluetooth EDR (3Mbps): 18.10 dBm (0.0646 W) <ant.7></ant.7> Bluetooth BR(1Mbps): 17.30 dBm (0.0537 W) Bluetooth EDR (2Mbps): 16.50 dBm (0.0447 W) Bluetooth EDR (3Mbps): 17.00 dBm (0.0501 W)			
99% Occupied Bandwidth	<pre><ant.6> Bluetooth BR(1Mbps) : 0.842MHz Bluetooth EDR (2Mbps) : 1.178MHz Bluetooth EDR (3Mbps) : 1.181MHz <ant.7> Bluetooth BR(1Mbps) : 0.836MHz</ant.7></ant.6></pre>			

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	Bluetooth EDR (2Mbps) : 1.178MHz Bluetooth EDR (3Mbps) : 1.178MHz				
Antenna Type / Gain	<ant. 6=""> Metal frame Antenna with gain -0.58 dBi <ant. 7=""> Metal frame Antenna with gain -1.48 dBi</ant.></ant.>				
Type of Modulation	Bluetooth BR (1Mbps) : GFSK Bluetooth EDR (2Mbps) :π/4-DQPSK Bluetooth EDR (3Mbps) : 8-DPSK				

Note: The device does not support MIMO mode for Bluetooth BR/EDR.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (Shenzhen)						
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595						
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.				
	TH01-SZ	CN1256	421272				

Test Firm	Sporton International Inc. (Shenzhen)					
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985					
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.			
	CO02-SZ; 03CH03-SZ	CN1256	421272			

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH03-SZ	AUDIX	E3	V9_230303
2.	CO02-SZ	AUDIX	E3	6.2009-8-24al

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1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ANSI C63.10-2013

Remark:

- All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

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2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
	0	2402	27	2429	54	2456
	1	2403	28	2430	55	2457
	2	2404	29	2431	56	2458
	3	2405	30	2432	57	2459
	4	2406	31	2433	58	2460
	5	2407	32	2434	59	2461
	6	2408	33	2435	60	2462
	7	2409	34	2436	61	2463
	8	2410	35	2437	62	2464
	9	2411	36	2438	63	2465
	10	2412	37	2439	64	2466
	11	2413	38	2440	65	2467
	12	2414	39	2441	66	2468
2400-2483.5 MHz	13	2415	40	2442	67	2469
	14	2416	41	2443	68	2470
	15	2417	42	2444	69	2471
	16	2418	43	2445	70	2472
	17	2419	44	2446	71	2473
	18	2420	45	2447	72	2474
	19	2421	46	2448	73	2475
	20	2422	47	2449	74	2476
	21	2423	48	2450	75	2477
	22	2424	49	2451	76	2478
	23	2425	50	2452	77	2479
	24	2426	51	2453	78	2480
	25	2427	52	2454	-	-
	26	2428	53	2455	-	-

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2.2 Test Mode

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report, and the worst mode of radiated spurious emissions is Bluetooth 1Mbps mode, and recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

	Summary table of Test Cases						
	Data Rate / Modulation						
Test Item	Bluetooth BR 1Mbps	Bluetooth EDR 3Mbps					
	GFSK	π/4-DQPSK	8-DPSK				
Conducted	Mode 1: CH00_2402 MHz	Mode 4: CH00_2402 MHz	Mode 7: CH00_2402 MHz				
Conducted Test Cases	Mode 2: CH39_2441 MHz	Mode 5: CH39_2441 MHz	Mode 8: CH39_2441 MHz				
Test Cases	Mode 3: CH78_2480 MHz	Mode 6: CH78_2480 MHz	Mode 9: CH78_2480 MHz				
	Bluetooth BR 1Mbps GFSK						
Radiated							
Test Cases		Mode 2: CH39_2441 MHz					
1001 00000		Mode 2. Ch39_2441 Minz					
		Mode 3: CH78_2480 MHz					
AC	Mark 4 COM OFFI LIII	Mode 3: CH78_2480 MHz					
	Mode 1 : GSM 850 Idle +		USB Cable (Charging from				

Remark:

- 1. For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.
- 2. For Radiated Test Cases, the tests were performance with Adapter, Battery and USB Cable.

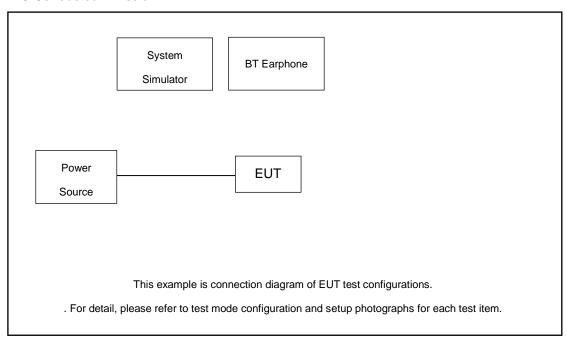
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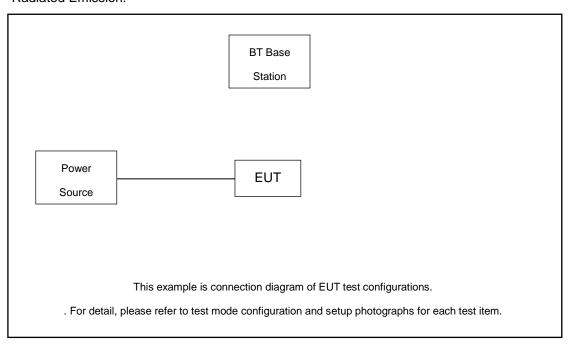
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2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:



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2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	BT Base Station	R&S	CBT	N/A	N/A	Unshielded, 1.8m
3.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	N/A	N/A

2.5 EUT Operation Test Setup

For Bluetooth function, the engineering test program was provided and enabled to make EUT connect with Bluetooth base station to continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the BT Earphone under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 2.2 dB and 10dB attenuator.

$$Offset(dB) = RF \ cable \ loss(dB) + attenuator \ factor(dB).$$

= 2.2 + 10 = 12.2 (dB)

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3 Test Result

3.1 Number of Channel Measurement

3.1.1 Limits of Number of Hopping Frequency

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

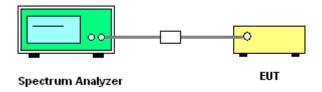
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

- 1. The testing follows ANSI C63.10-2013 clause 7.8.3.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Enable the EUT hopping function.
- 5. Use the following spectrum analyzer settings: Span = the frequency band of operation; RBW = 300kHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
- 6. The number of hopping frequency used is defined as the number of total channel.
- 7. Record the measurement data derived from spectrum analyzer.

3.1.4 Test Setup



3.1.5 Test Result of Number of Hopping Frequency

Please refer to Appendix A.

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3.2 Hopping Channel Separation Measurement

3.2.1 Limit of Hopping Channel Separation

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

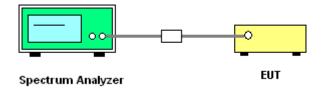
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

- 1. The testing follows ANSI C63.10-2013 clause 7.8.2.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Enable the EUT hopping function.
- Use the following spectrum analyzer settings:
 Span = wide enough to capture the peaks of two adjacent channels;
 RBW = 300kHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
- 6. Measure and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Hopping Channel Separation

Please refer to Appendix A.

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3.3 Dwell Time Measurement

3.3.1 Limit of Dwell Time

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

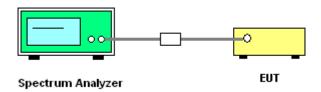
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

- 1. The testing follows ANSI C63.10-2013 clause 7.8.4.
- The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
 The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Enable the EUT hopping function.
- 5. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW ≥ RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold.
- 6. Measure and record the results in the test report.

3.3.4 Test Setup



3.3.5 Test Result of Dwell Time

Please refer to Appendix A.

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3.4 20dB and 99% Bandwidth Measurement

3.4.1 Limit of 20dB and 99% Bandwidth

Reporting only

3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

- 1. The testing follows ANSI C63.10-2013 clause 6.9.2 and 6.9.3.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Use the following spectrum analyzer settings for 20dB Bandwidth measurement.

Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel;

The RBW is set to 1% to 5% of the 99% OBW, the VBW is set to 3 times the RBW;

Sweep = auto; Detector function = peak;

Trace = \max hold.

5. Use the following spectrum analyzer settings for 99 % Bandwidth measurement.

Span = approximately 1.5 to 5 times the 99% bandwidth, centered on a hopping channel;

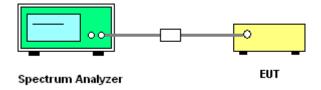
The RBW is set to 1% to 5% of the 99% OBW, the VBW is set to 3 times the RBW;

Sweep = auto; Detector function = peak;

Trace = max hold.

6. Measure and record the results in the test report.

3.4.4 Test Setup



3.4.5 Test Result of 20dB and 99% Occupied Bandwidth

Please refer to Appendix A.

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3.5 Output Power Measurement

3.5.1 Limit of Output Power

The maximum peak conducted output power of the intentional radiator shall not exceed the following: For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts. The power limit for 1Mbps, 2Mbps, 3Mbps and AFH modes are 0.125 watts.

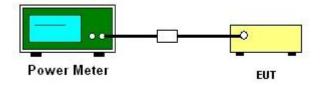
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

- 1. The testing follows ANSI C63.10-2013 clause 7.8.5.
- 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Measure the conducted output power with cable loss and record the results in the test report.
- 5. Measure and record the results in the test report.

3.5.4 Test Setup



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3.5.5 Test Result of Peak Output Power

<Ant. 6>

DH	CH.	NTX	Peak Power (dBm)	Power Level	Power Limit (dBm)	Test Result
	0	1	17.80	Default	20.97	Pass
DH5	39	1	18.20	Default	20.97	Pass
	78	1	18.00	Default	20.97	Pass
	0	1	17.00	Default	20.97	Pass
2DH5	39	1	17.40	Default	20.97	Pass
	78	1	17.20	Default	20.97	Pass
	0	1	17.50	Default	20.97	Pass
3DH5	39	1	18.10	Default	20.97	Pass
	78	1	17.70	Default	20.97	Pass

<Ant. 7>

DH	CH.	NTX	Peak Power	Power Level	Power Limit Te	Test
DIT	011.	NIX	(dBm)	1 OWEI LEVEI	(dBm)	Result
	0	1	17.00	Default	20.97	Pass
DH5	39	1	17.30	Default	20.97	Pass
	78	1	17.10	Default	20.97	Pass
	0	1	16.10	Default	20.97	Pass
2DH5	39	1	16.50	Default	20.97	Pass
	78	1	16.20	Default	20.97	Pass
	0	1	16.40	Default	20.97	Pass
3DH5	39	1	17.00	Default	20.97	Pass
	78	1	16.60	Default	20.97	Pass

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3.5.6 Test Result of Average Output Power (Reporting Only)

<Ant. 6>

DH	CH.	NTX	Average Power	Duty Factor
חט			(dBm)	(dB)
	0	1	17.40	1.16
DH5	39	1	17.80	1.16
	78	1	17.20	1.16
	0	1	14.60	1.16
2DH5	39	1	15.10	1.16
	78	1	14.70	1.16
	0	1	14.60	1.16
3DH5	39	1	15.10	1.16
	78	1	14.70	1.16

<Ant. 7>

37 tilei 77				
DH	CH.	NTX	Average Power	Duty Factor
			(dBm)	(dB)
	0	1	16.80	1.16
DH5	39	1	17.10	1.16
	78	1	16.60	1.16
2DH5	0	1	13.90	1.16
	39	1	14.50	1.16
	78	1	14.00	1.16
	0	1	13.90	1.16
3DH5	39	1	14.50	1.16
	78	1	14.00	1.16

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3.6 Conducted Band Edges Measurement

3.6.1 Limit of Band Edges

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

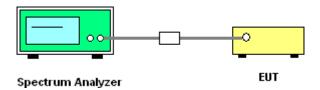
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

- 1. The testing follows ANSI C63.10-2013 clause 7.8.6.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- Set RBW = 100kHz, VBW = 300kHz. Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.
- 4. Enable hopping function of the EUT and then repeat step 2. and 3.
- 5. Measure and record the results in the test report.

3.6.4 Test Setup



3.6.5 Test Result of Conducted Band Edges

Please refer to Appendix A.

3.6.6 Test Result of Conducted Hopping Mode Band Edges

Please refer to Appendix A.

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3.7 Conducted Spurious Emission Measurement

3.7.1 Limit of Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.

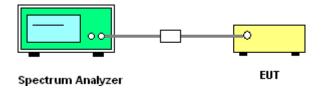
3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Procedure

- 1. The testing follows ANSI C63.10-2013 clause 7.8.8.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW.
- 5. Measure and record the results in the test report.
- 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.7.4 Test Setup



3.7.5 Test Result of Conducted Spurious Emission

Please refer to Appendix A.

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3.8 Radiated Band Edges and Spurious Emission Measurement

3.8.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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
Above 960	500	3

3.8.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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3.8.3 Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. 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.
- 4. Set to the maximum power setting and enable the EUT transmit continuously.
- 5. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c).

Duty cycle = On time/100 milliseconds

On time = $N_1*L_1+N_2*L_2+...+N_{n-1}*LN_{n-1}+N_n*L_n$

Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.

Average Emission Level = Peak Emission Level + 20*log(Duty cycle)

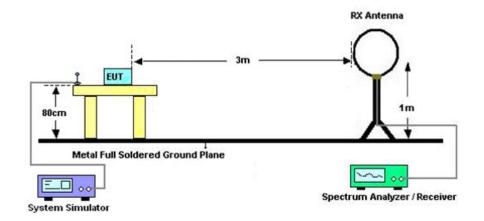
- 6. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 7. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
- 8. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

Note: The average levels were calculated from the peak level corrected with duty cycle correction factor (-24.79dB) derived from 20log (dwell time/100ms). This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.

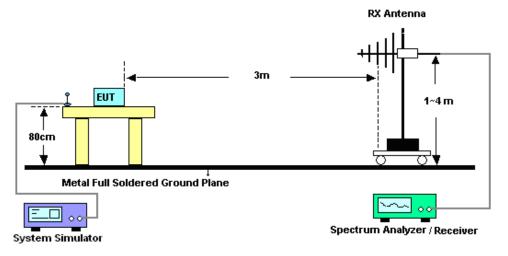
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3.8.4 Test Setup

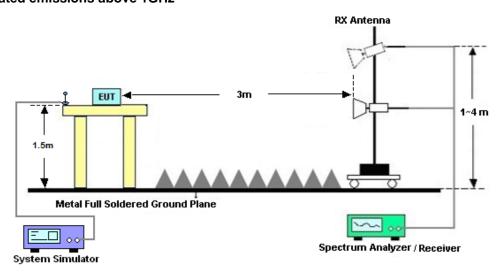
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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3.8.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.8.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.8.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C.

3.8.8 Duty cycle correction factor for average measurement

Please refer to Appendix D.

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3.9 AC Conducted Emission Measurement

3.9.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Eroquency of emission (MUz)	Conducted limit (dBµV)			
Frequency of emission (MHz)	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 of the frequency.

3.9.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

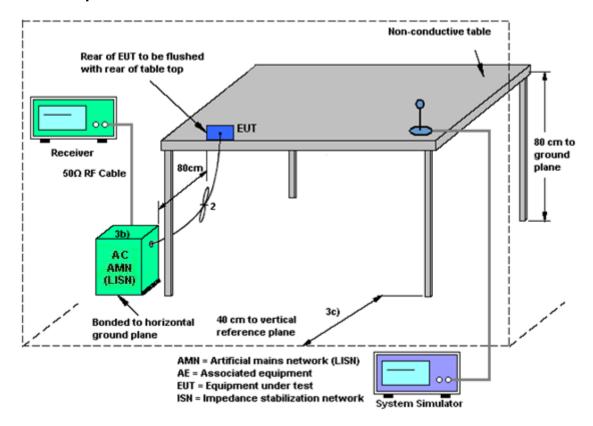
3.9.3 Test Procedures

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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3.9.4 Test Setup



3.9.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

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3.10 Antenna Requirements

3.10.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.10.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.10.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY544500 83	20Hz~8.4GHz	Apr. 09, 2024	Oct. 28, 2024~ Nov. 07, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY551502 46	10Hz~44GHz;	Apr. 09, 2024	Oct. 28, 2024~ Nov. 07, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Oct. 28, 2024~ Nov. 07, 2024	Dec. 28, 2024	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 20, 2023	Oct. 28, 2024~ Nov. 07, 2024	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120D	9120D-135 5	1GHz~18GHz	Apr. 09, 2024	Oct. 28, 2024~ Nov. 07, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35- HG	1871923	18GHz~40GHz	Jul. 03, 2024	Oct. 28, 2024~ Nov. 07, 2024	Jul.02, 2025	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 09, 2024	Oct. 28, 2024~ Nov. 07, 2024	Apr. 08, 2025	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 18, 2024	Oct. 28, 2024~ Nov. 07, 2024	Oct. 17, 2025	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1943528	1GHz~18GHz	Oct. 18, 2024	Oct. 28, 2024~ Nov. 07, 2024	Oct. 17, 2025	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY395013 02	500MHz~26.5G Hz	Dec. 27, 2023	Oct. 28, 2024~ Nov. 07, 2024	Dec. 26, 2024	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002 729	N/A	Oct. 18, 2024	Oct. 28, 2024~ Nov. 07, 2024	Oct. 17, 2025	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Oct. 28, 2024~ Nov. 07, 2024	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Oct. 28, 2024~ Nov. 07, 2024	NCR	Radiation (03CH03-SZ)
EMI Receiver	R&S	ESR7	102297	9kHz~7GHz;	Jul. 03, 2024	Oct. 26, 2024	Jul. 02, 2025	Conduction (CO02-SZ)
AC LISN	R&S	ENV216	101499	9kHz~30MHz	Jul. 03, 2024	Oct. 26, 2024	Jul. 02, 2025	Conduction (CO02-SZ)
AC Power Source	CHROMA	61601	616010002 470	100Vac~250Vac	Dec.25, 2022	Oct. 26, 2024	Dec. 24, 2024	Conduction (CO02-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Oct. 23, 2024~ Dec. 03, 2024	Apr. 08, 2025	Conducted (TH01-SZ)
Pulse Power Senor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 29, 2023	Oct. 23, 2024~ Dec. 03, 2024	Dec. 28, 2024	Conducted (TH01-SZ)
Thermo meter	Anymetre	JR593	#7	- 10°C ~ 50°C 10%RH~99%R H	Apr. 09, 2024	Oct. 23, 2024~ Dec. 03, 2024	Apr. 08, 2025	Conducted (TH01-SZ)

NCR: No Calibration Required

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5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Conducted Power Spectral Density	±1.32 dB
Frequency	±1.3 Hz

<u>Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)</u>

Measuring Uncertainty for a Level of Confidence	2.5 dB
of 95% (U = 2Uc(y))	2.5 UB

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	5.0 dB
of 95% (U = 2Uc(y))	5.0 db

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	5.0 dB
of 95% (U = 2Uc(y))	3.0 dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence	4.9 dB
of 95% (U = 2Uc(y))	4.9 UB

<u>Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)</u>

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0 dB
01 93 /6 (0 = 20C(y))	

----- THE END -----

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Appendix A. Conducted Test Results

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Ambient Condition: <u>24-26</u> °C, <u>45-55</u> %RH

Test Date: 2024.10.23~2024.12.03 Test Engineer: Chen ZhiQiang

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20dB Emission Bandwidth

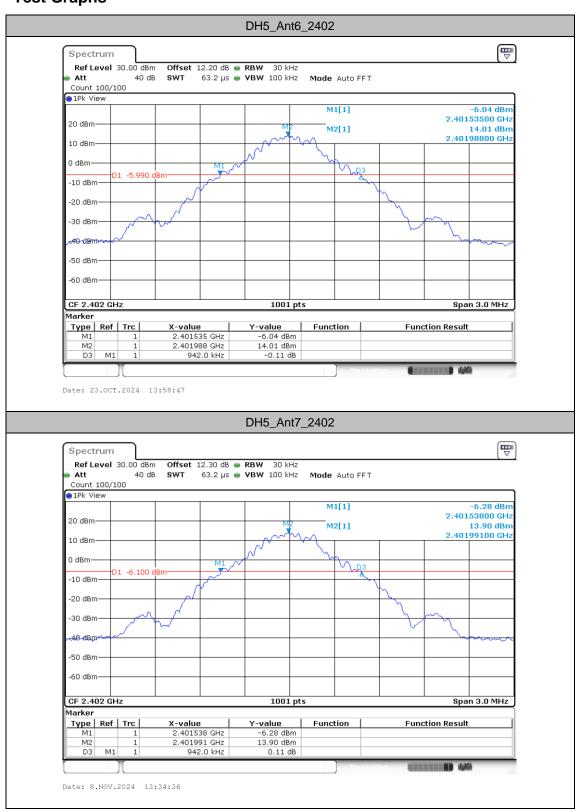
Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]
DH5	Ant6	2402	0.94	2401.54	2402.48
	Ant7	2402	0.94	2401.54	2402.48
	Ant6	2441	0.94	2440.53	2441.48
	Ant7	2441	0.95	2440.54	2441.48
	Ant6	2480	0.94	2479.53	2480.48
	Ant7	2480	0.95	2479.54	2480.48
2DH5	Ant6	2402	1.32	2401.34	2402.66
	Ant7	2402	1.30	2401.36	2402.66
	Ant6	2441	1.31	2440.34	2441.65
	Ant7	2441	1.32	2440.34	2441.66
	Ant6	2480	1.32	2479.34	2480.65
	Ant7	2480	1.32	2479.34	2480.66
3DH5	Ant6	2402	1.30	2401.35	2402.65
	Ant7	2402	1.30	2401.35	2402.65
	Ant6	2441	1.30	2440.35	2441.65
	Ant7	2441	1.30	2440.35	2441.65
	Ant6	2480	1.30	2479.35	2480.65
	Ant7	2480	1.30	2479.35	2480.65

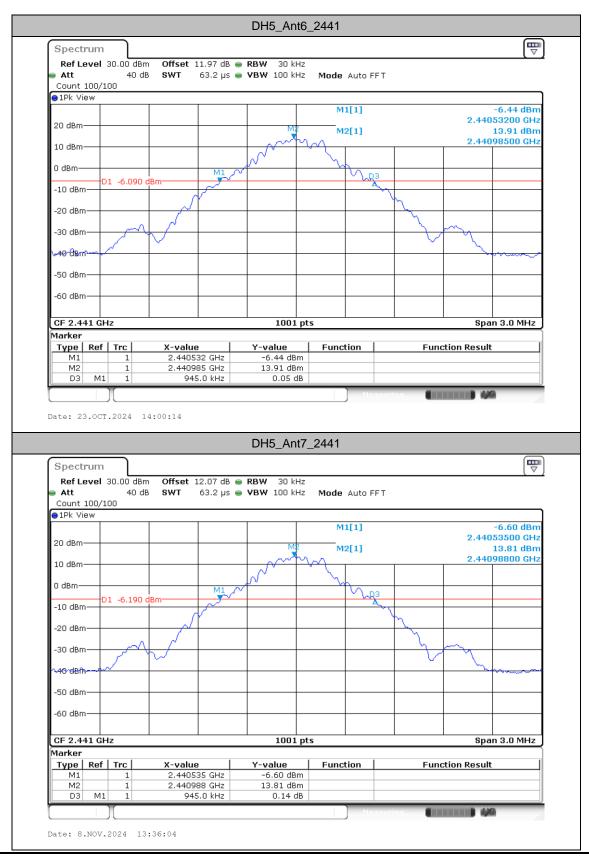
: A1 of A78



Test Graphs

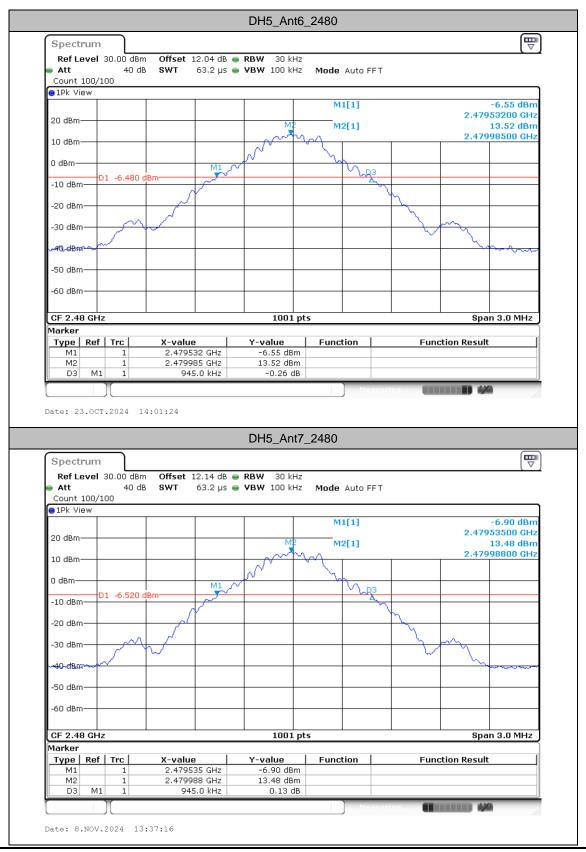


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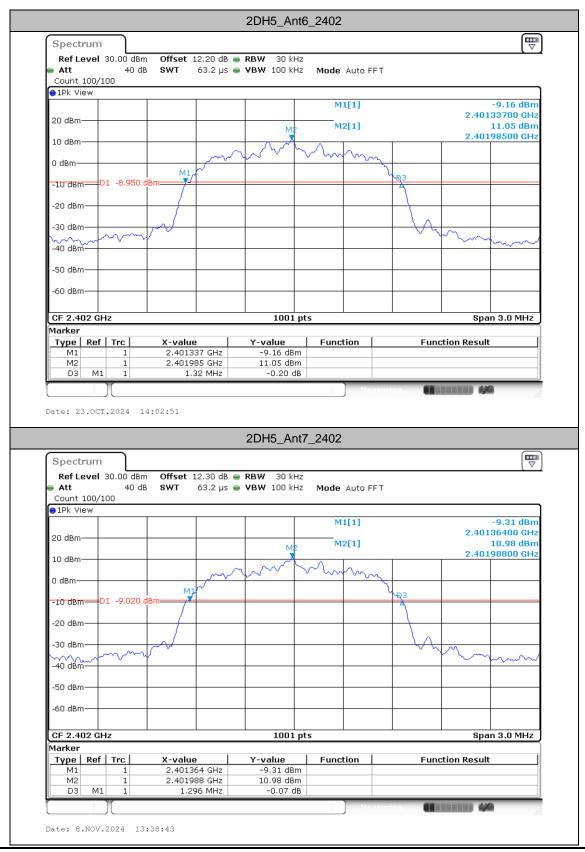
Sporton International Inc. (Shenzhen)

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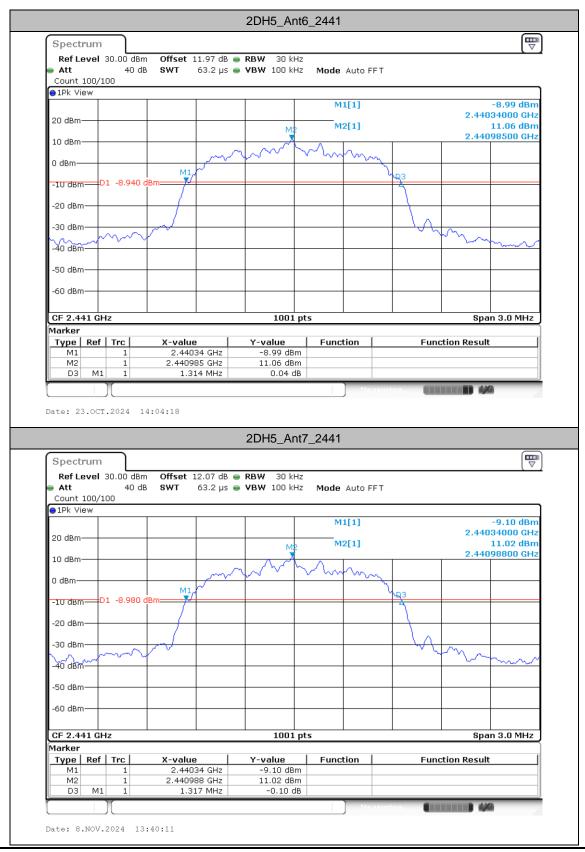


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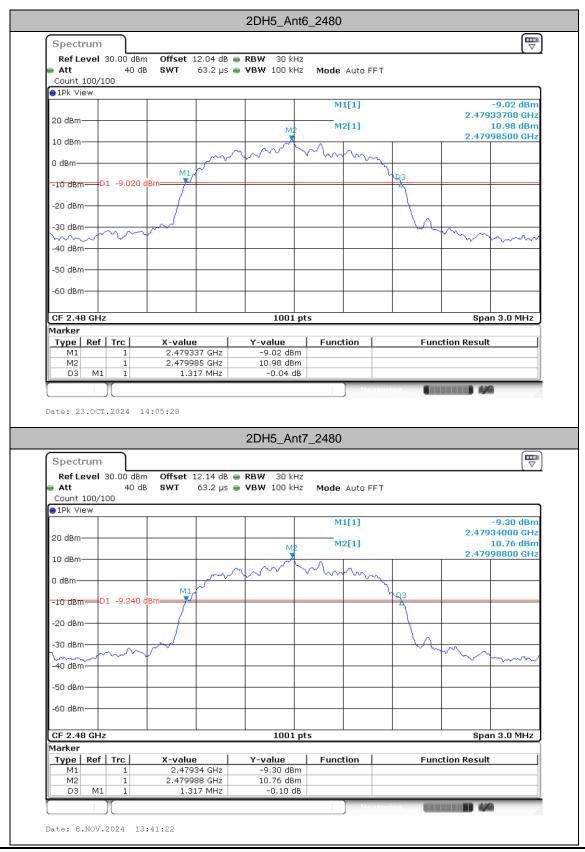
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AZEQ-24111



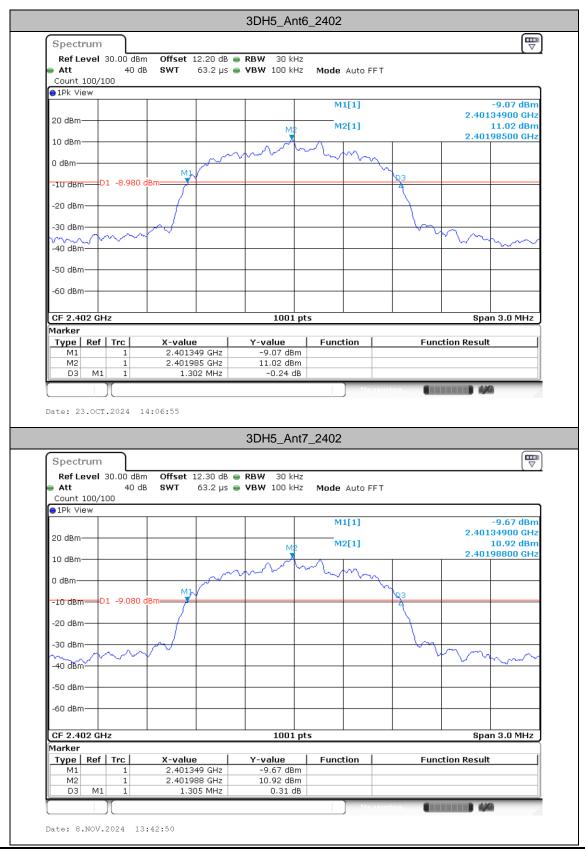
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AZEQ-24111 : A5 of A78



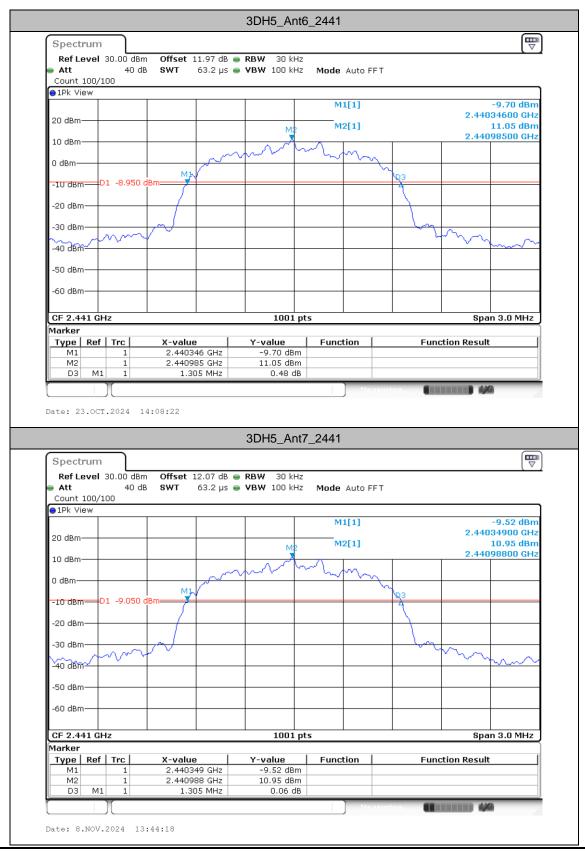
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AZEQ-24111 : A6 of A78



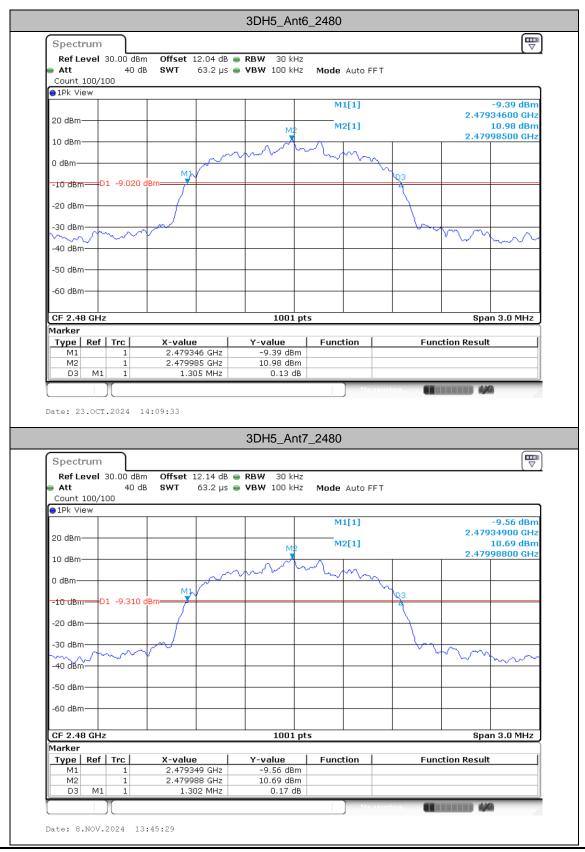
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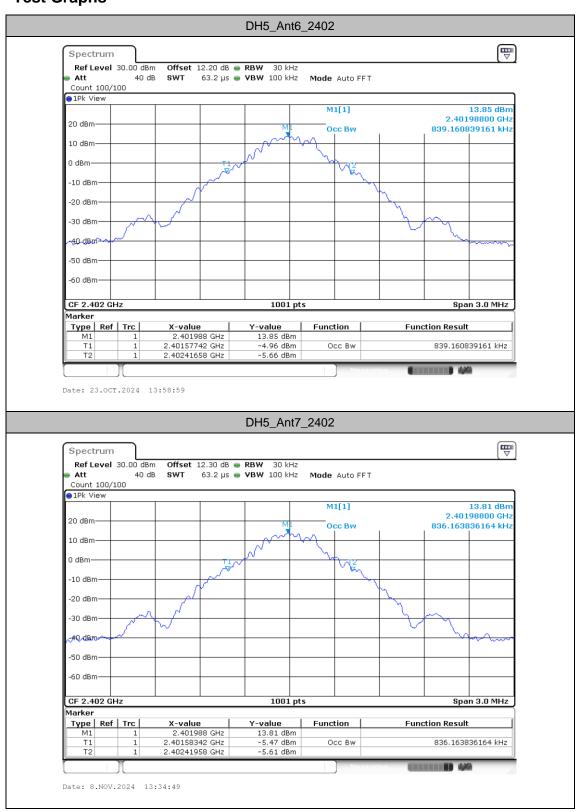
Occupied Channel Bandwidth

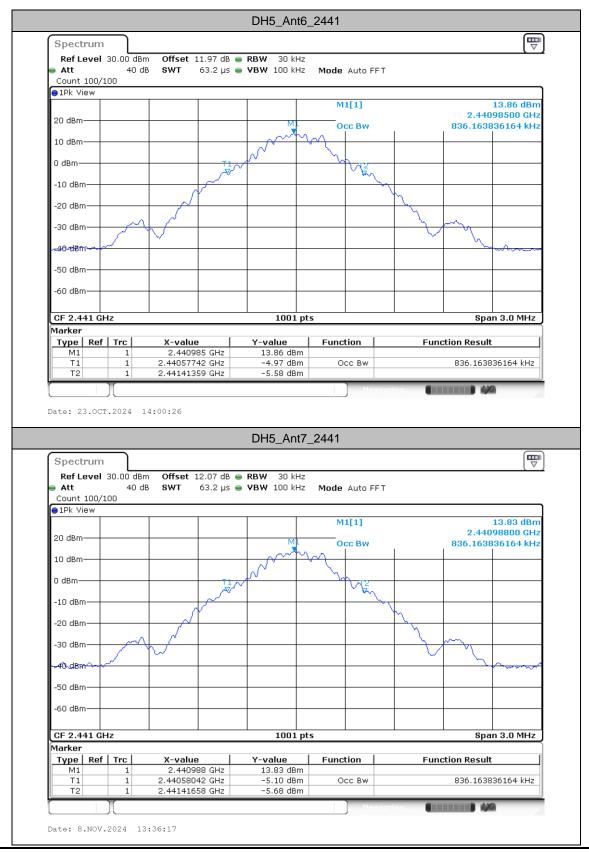
Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
DH5	Ant6	2402	0.839	2401.5774	2402.4166
	Ant7	2402	0.836	2401.5834	2402.4196
	Ant6	2441	0.836	2440.5774	2441.4136
DHS	Ant7	2441	0.836	2440.5804	2441.4166
	Ant6	2480	0.842	2479.5714	2480.4136
	Ant7	2480	0.836	2479.5804	2480.4166
	Ant6	2402	1.172	2401.4096	2402.5814
2DH5	Ant7	2402	1.178	2401.4096	2402.5874
	Ant6	2441	1.178	2440.4066	2441.5844
	Ant7	2441	1.169	2440.4126	2441.5814
	Ant6	2480	1.178	2479.4066	2480.5844
	Ant7	2480	1.175	2479.4096	2480.5844
	Ant6	2402	1.178	2401.4096	2402.5874
3DH5	Ant7	2402	1.178	2401.4126	2402.5904
	Ant6	2441	1.178	2440.4096	2441.5874
	Ant7	2441	1.175	2440.4126	2441.5874
	Ant6	2480	1.181	2479.4066	2480.5874
	Ant7	2480	1.175	2479.4126	2480.5874

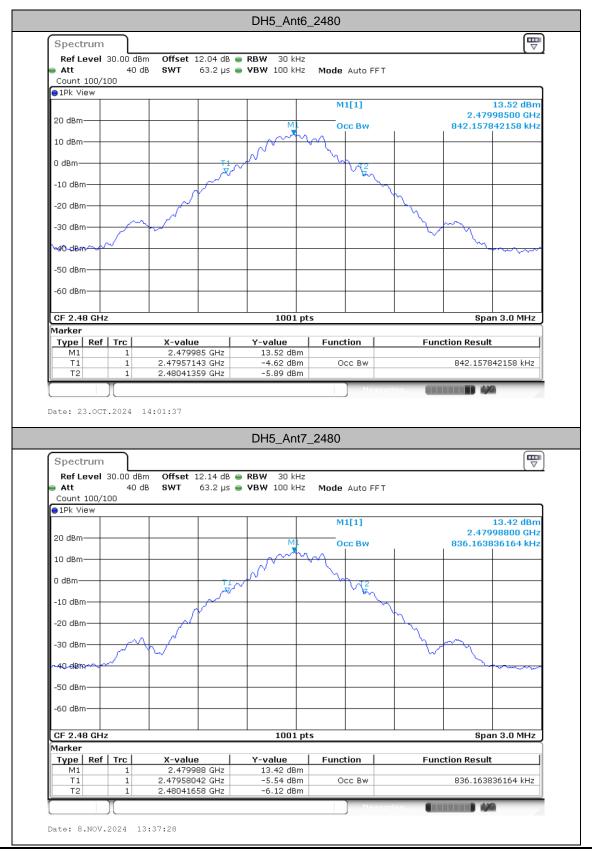


Test Graphs

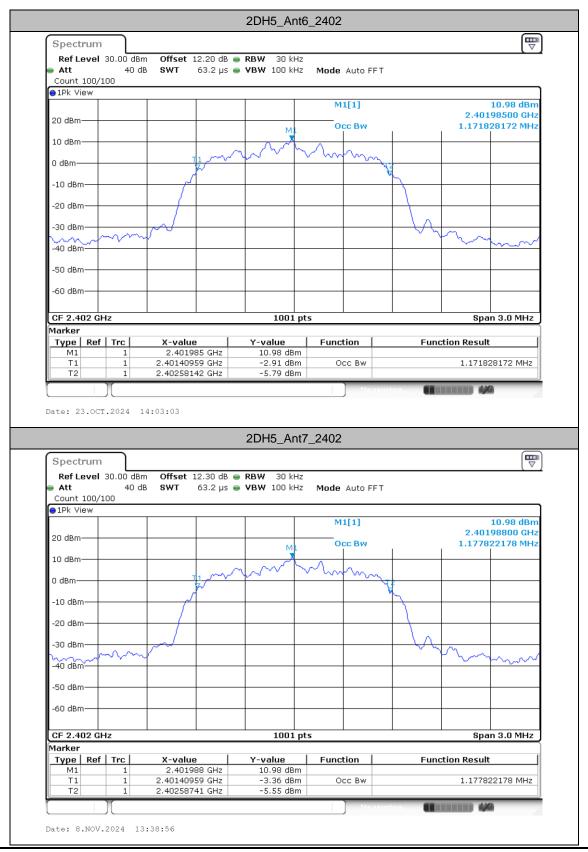




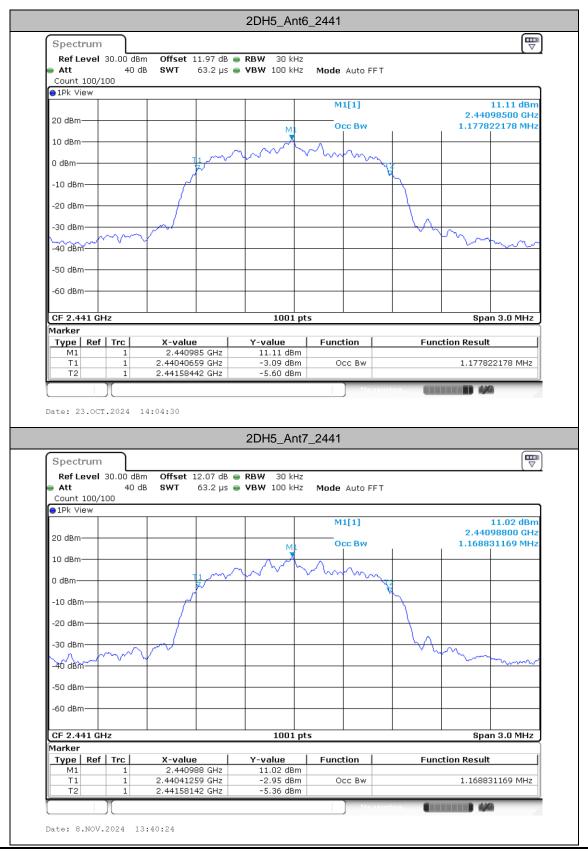
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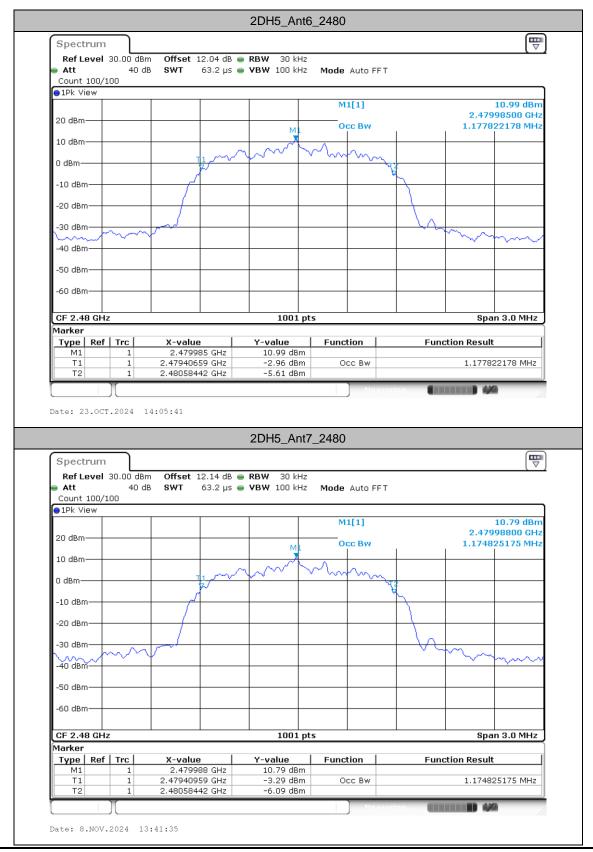
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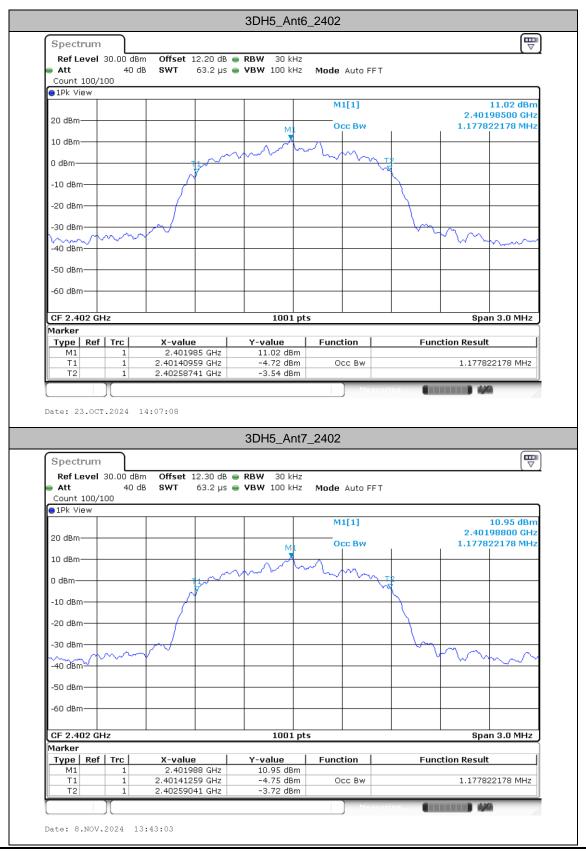
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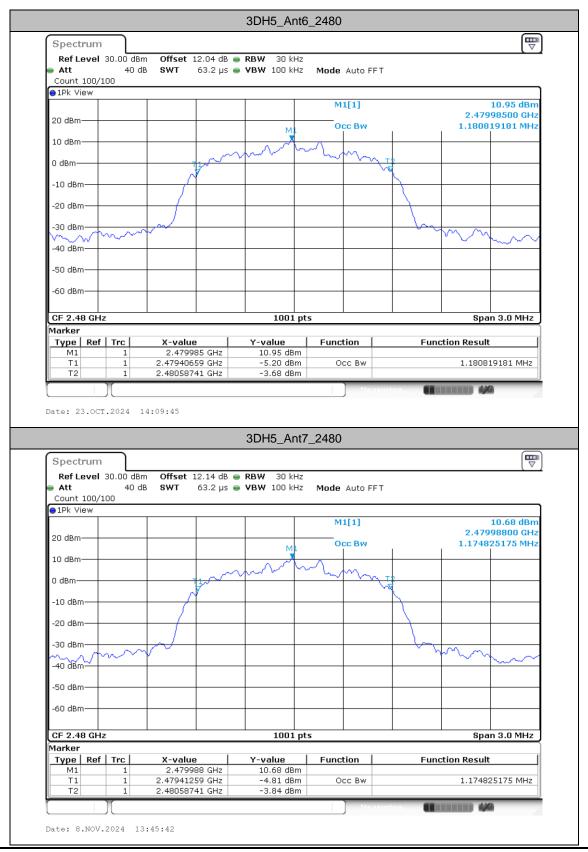
TEL: 86-755-8637-9589 FAX: 86-755-8637-9595 FCC ID: 2AZEQ-24111 : A17 of A78



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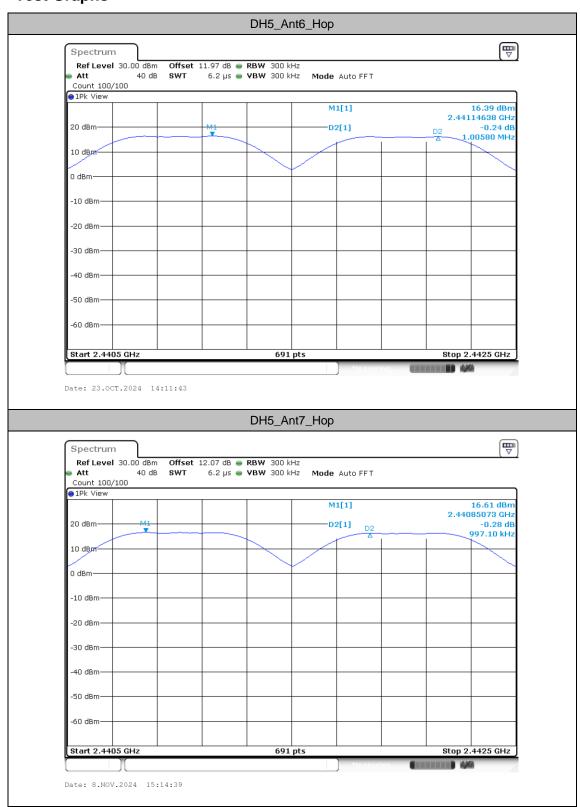
Carrier frequency separation

Test Result

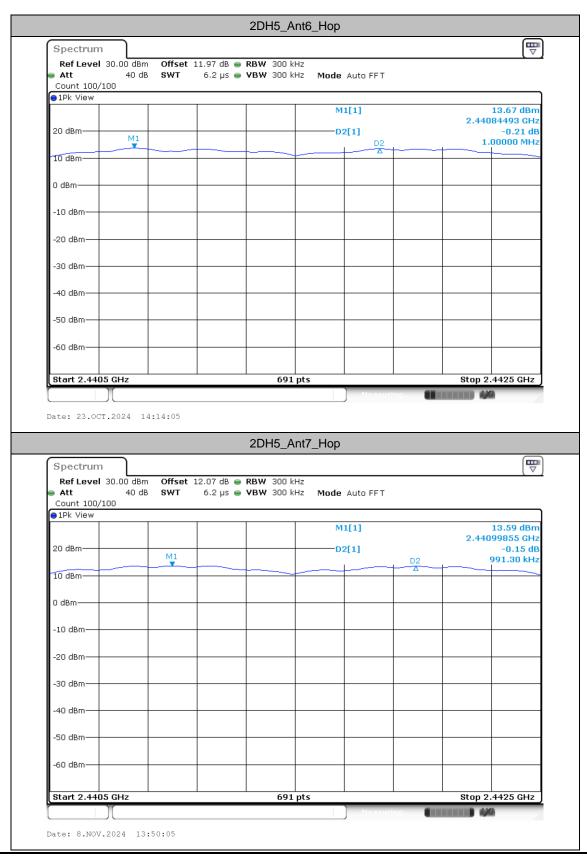
TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant6	Нор	1.006	≥0.627	PASS
	Ant7	Нор	0.997	≥0.633	PASS
2DH5	Ant6	Нор	1	≥0.880	PASS
	Ant7	Нор	0.991	≥0.880	PASS
3DH5	Ant6	Нор	1.09	≥0.867	PASS
	Ant7	Нор	1.003	≥0.867	PASS



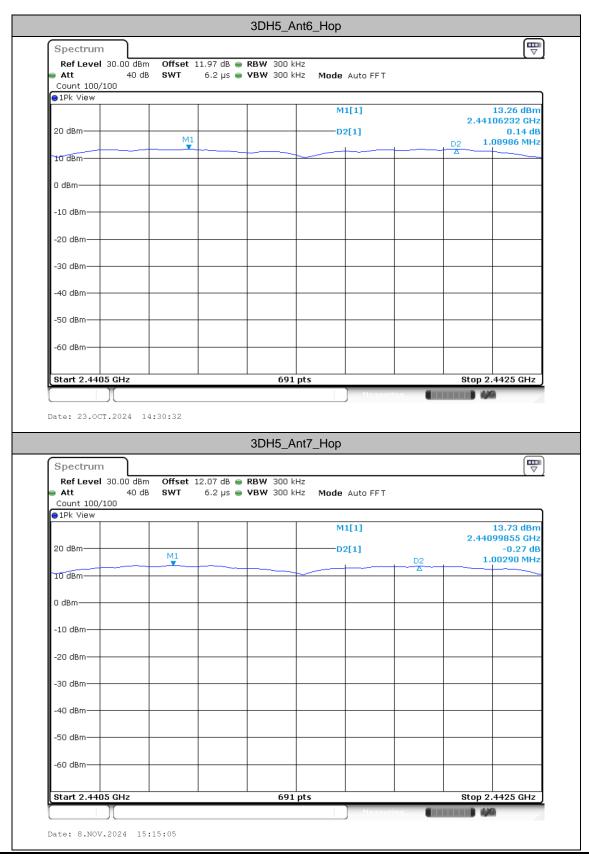
Test Graphs











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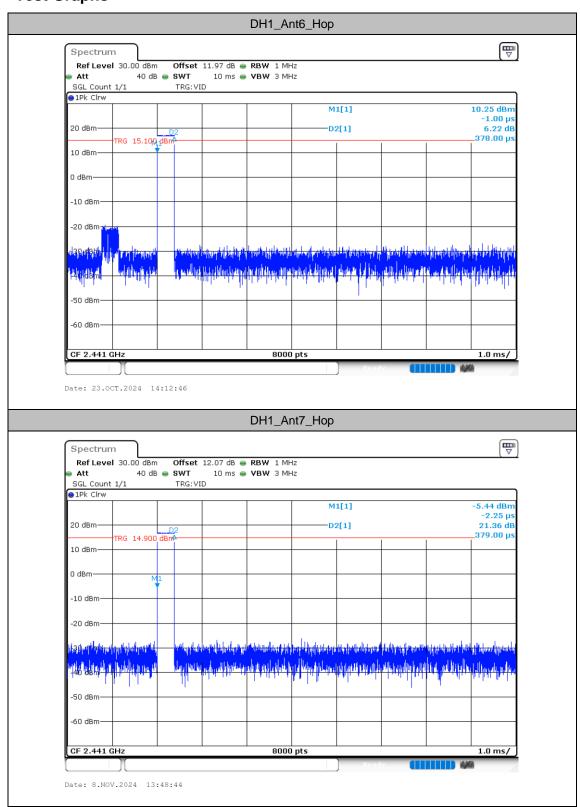
Time of occupancy

Test Result

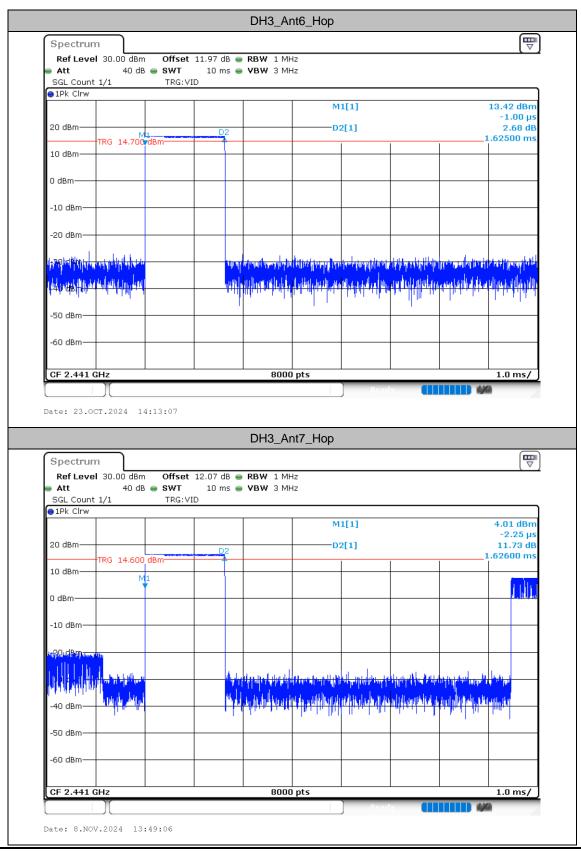
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant6	Нор	0.378	320	0.121	≤0.4	PASS
	Ant7	Нор	0.379	320	0.121	≤0.4	PASS
DUIG	Ant6	Нор	1.625	160	0.26	≤0.4	PASS
DH3	Ant7	Нор	1.626	160	0.26	≤0.4	PASS
DH5	Ant6	Нор	2.867	106.67	0.306	≤0.4	PASS
	Ant7	Нор	2.867	106.67	0.306	≤0.4	PASS
2DH1	Ant6	Нор	0.384	320	0.123	≤0.4	PASS
	Ant7	Нор	0.384	320	0.123	≤0.4	PASS
2DH3	Ant6	Нор	1.629	160	0.261	≤0.4	PASS
	Ant7	Нор	1.628	160	0.26	≤0.4	PASS
2DH5	Ant6	Нор	2.869	106.67	0.306	≤0.4	PASS
	Ant7	Нор	2.869	106.67	0.306	≤0.4	PASS
3DH1	Ant6	Нор	0.384	320	0.123	≤0.4	PASS
	Ant7	Нор	0.384	320	0.123	≤0.4	PASS
3DH3	Ant6	Нор	1.628	160	0.26	≤0.4	PASS
	Ant7	Нор	1.628	160	0.26	≤0.4	PASS
3DH5	Ant6	Нор	2.870	106.67	0.306	≤0.4	PASS
	Ant7	Нор	2.870	106.67	0.306	≤0.4	PASS



Test Graphs

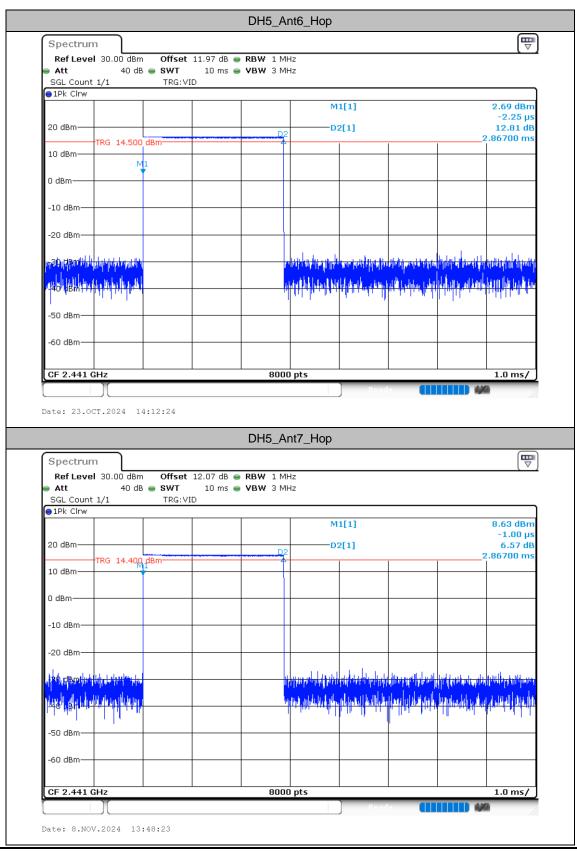




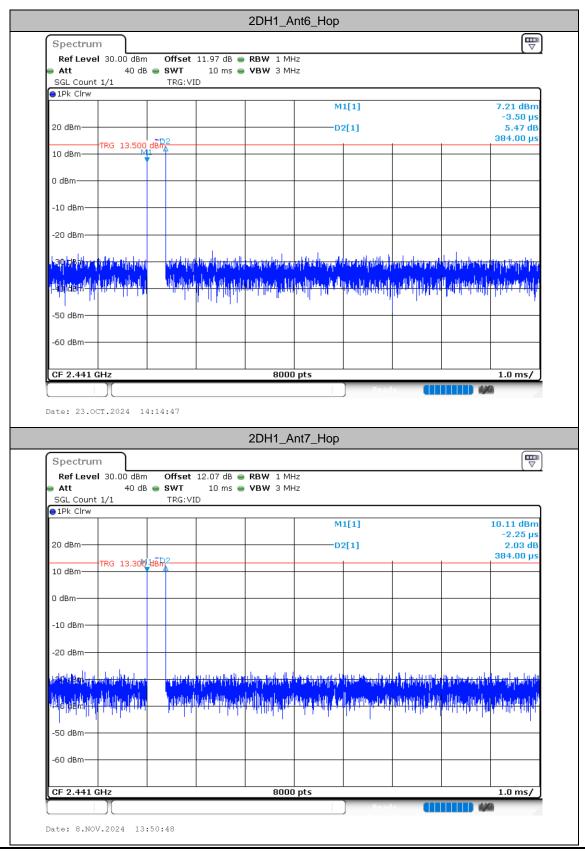


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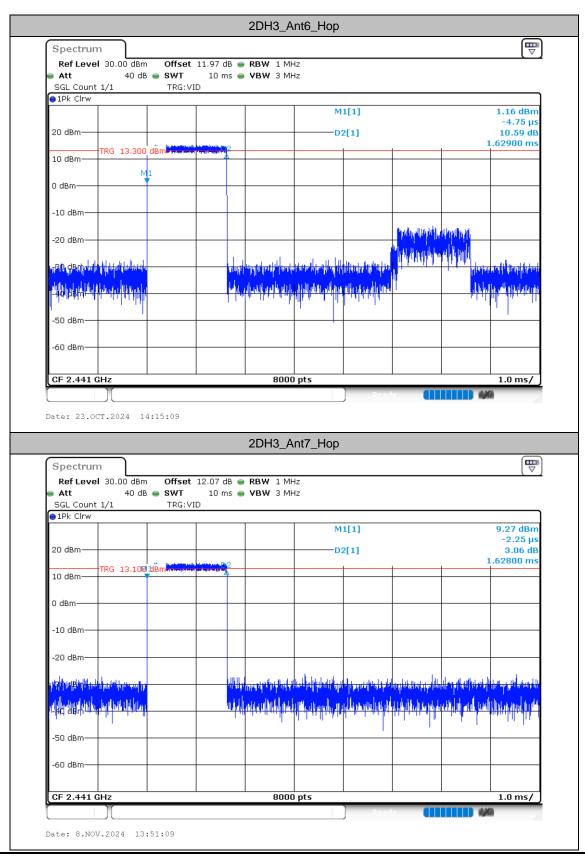




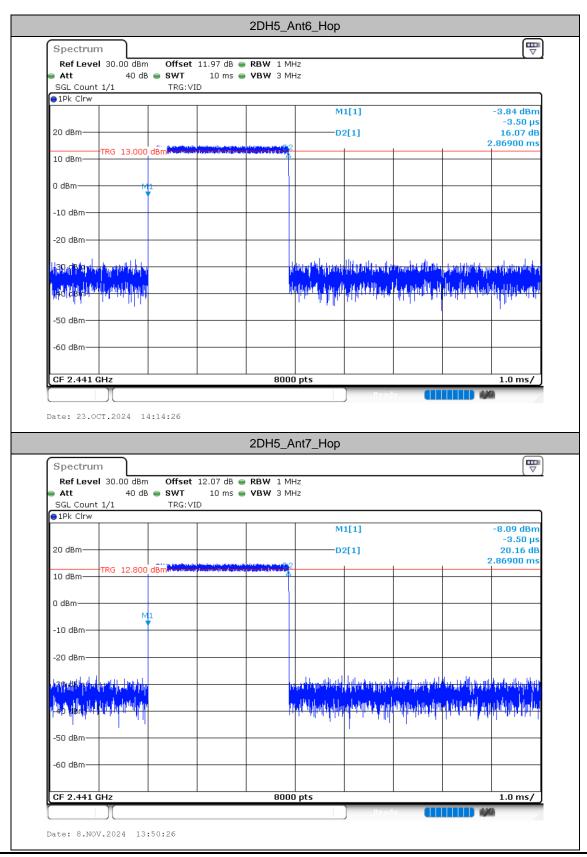




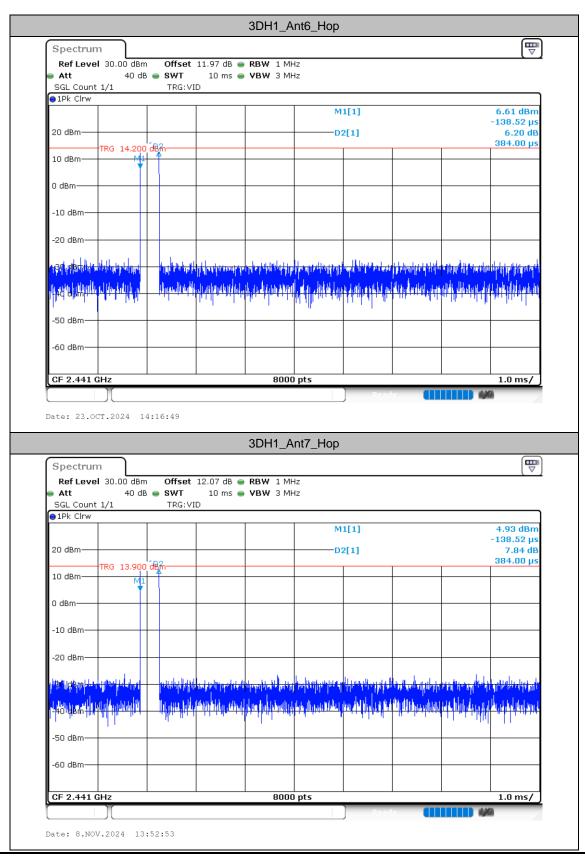






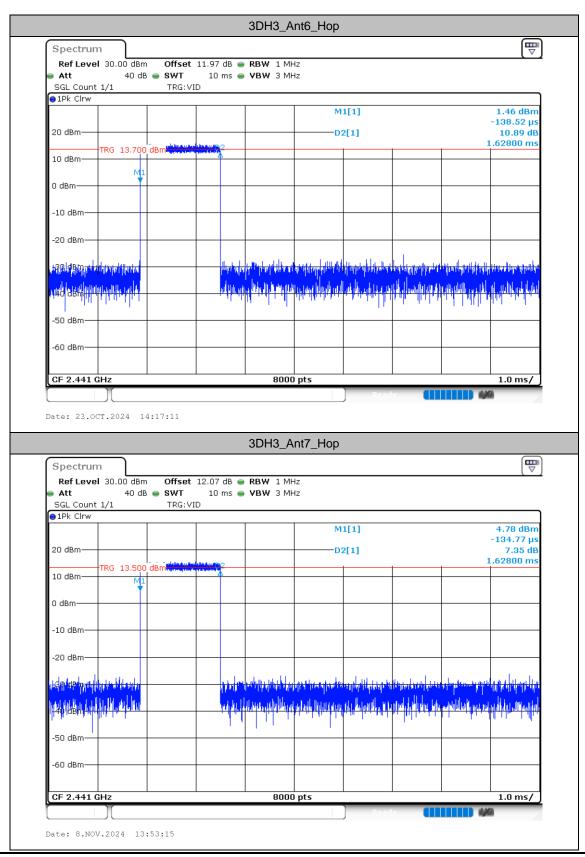




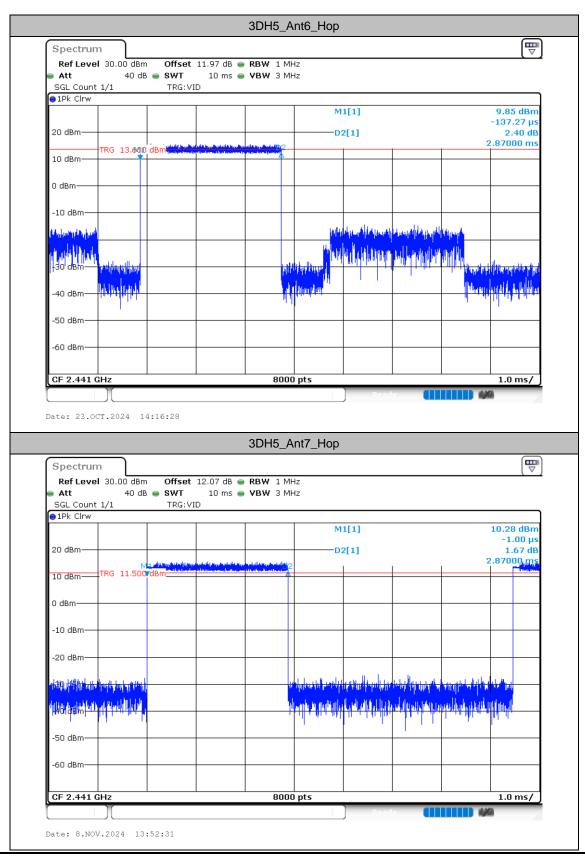


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Number of hopping channels

Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant6	Нор	79	≥15	PASS
	Ant7	Нор	79	≥15	PASS