

# **FCC Test Report**

**Application No.:** DNT2505140270R5060-06540

**Applicant:** DGL Group LTD.

Address of Applicant: 2045 Lincoln Highway, 3rd Floor, Edison, NJ 08817, United States

**EUT Description:** LED WIRELESS SPEAKER

Model No.: POP-WRLSPKR-WHT, POP-WRLSPKR, POP-WRLSPKR-XXX

FCC ID: 2AANZWRLSPKR

**Power Supply:** Input DC 5V & DC 3.7V from rechargeable lithium-ion battery

Trade Mark: HYPE

47 CFR FCC Part 2, Subpart J

Standards: 47 CFR Part 15, Subpart C

ANSI C63.10: 2013

**Date of Receipt:** 2025/05/17

**Date of Test:** 2025/05/18 to 2025/06/04

**Date of Issue:** 2025/06/05

Test Result: PASS

Prepared By: \_\_\_\_\_ (Testing Engineer)

Reviewed By: \_\_\_\_\_ (Project Engineer)

Approved By: \_\_\_\_\_ (Manager)

Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.



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**Report Revise Record** 

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	Jun 5, 2025	Valid	Original Report



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# 1 Test Summary

1 Cot Odiffillary				
Test Item	Test Requirement	Test Method	Test Result	Result
Antenna Requirement	15.203/247(b)	<u> </u>	Clause 3.1	PASS
20dB Emission Bandwidth	15.247 (a)(1)	ANSI C63.10: 2013	Clause 3.2	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10: 2013	Clause 3.3	PASS
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10: 2013	Clause 3.4	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10: 2013	Clause 3.5	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10: 2013	Clause 3.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10: 2013	Clause 3.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10: 2013	Clause 3.8	PASS
Radiated Spurious	15.247(d);	ANSI C63.10: 2013	Clause 3.9	PASS
emissions	15.205/15.209	ANSI C03.10. 2013	Clause 3.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10: 2013	Clause 3.10	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10: 2013	Clause 3.11	PASS

## Note:

1. "N/A" denotes test is not applicable in this test report.



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## 2 General Information

## 2.1 Test Location

Company:	Dongguan DN Testing Co., Ltd
Address:	No. 1, West Fourth Street, South Xinfa Road, Wusha Liwu, Chang ' an Town, Dongguan City, Guangdong P.R.China
Test engineer:	Wayne Lin

## 2.2 General Description of EUT

Manufacturer:	DGL Group LTD.
Address of Manufacturer:	2045 Lincoln Highway, 3rd Floor, Edison, NJ 08817, United States
Test EUT Description:	LED WIRELESS SPEAKER
Model No.:	POP-WRLSPKR-WHT
Additional Model(s):	POP-WRLSPKR, POP-WRLSPKR-XXX
Chip Type:	AC6965E
Serial number:	PR2505140270R5060
Power Supply:	Input DC 5V & DC 3.7V from rechargeable lithium-ion battery
Trade Mark:	HYPE
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2402 MHz to 2480 MHz
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Type of Modulation:	GFSK,π/4-DQPSK,8DPSK
Sample Type:	□ Portable Device, □ Module, □ Mobile Device
Antenna Type:	☐ External, ⊠ Integrated
Antenna Ports:	
Antenna Gain*:	⊠ Provided by applicant
Antenna Gam .	-0.68 dBi
	⊠ Provided by applicant
RF Cable*:	0.5dB(0.6~1GHz); 0.8dB(1.4~2GHz); 1.0dB(2.1~2.7GHz); 1.5dB(3~4GHz); 1.8dB(4.4~6GHz);

#### Remark:

<sup>\*</sup>Only the color of the product is different, everything else is completely consistent.

<sup>\*</sup>Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information , DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.



# 2.3 Channel List

	Operation Frequency of each 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
<b>4</b>	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
<b>1</b> 3	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		

#### Remark:

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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## 2.4 5Test Environment and Mode

Operating Environment:	
Temperature:	20~25.0 °C
Humidity:	45~56 % RH
Atmospheric Pressure:	101.0~101.30 KPa
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

## 2.5 Power Setting of Test Software

Software Name	FCC_assist_1.0.2.2			
Frequency(MHz)	2402	2441	2480	
GFSK Setting	10	10	10	
π/4-DQPSK Setting	10	10	10	
8DPSK	10	10	10	

## 2.6 Description of Support Units

The EUT has been tested independent unit.

## 2.7 Test Facility

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

#### Lab A:

#### • FCC, USA

Designation Number: CN1348

## • A2LA (Certificate No. 7050.01)

DONGGUAN DN TESTING CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 7050.01.

## • Innovation, Science and Economic Development Canada

DONGGUAN DN TESTING CO., LTD. EMC Laboratory has been recognized by ISED as an accredited testing laboratory. CAB identifier is CN0149.

IC#: 30755.



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# 2.8 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	20dB Emission Bandwidth	±0.0196%
2	Carrier Frequency Separation	±1.9%
3	Number of Hopping Channel	±1.9%
4	Time of Occupancy	±0.028%
5	Max Peak Conducted Output Power	±0.743 dB
6	Band-edge Spurious Emission	±1.328 dB
7	Conducted RF Spurious Emission	9KHz-1GHz:±0.746dB 1GHz-26GHz:±1.328dB

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
	0, 0, 0, 0,	± 4.8dB (Below 1GHz)
2	Dedicted Engineer	± 4.8dB (1GHz to 6GHz)
2	Radiated Emission	± 4.5dB (6GHz to 18GHz)
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	± 5.02dB (Above 18GHz)



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# 2.9 Equipment List

Description	Manufacturer	Model	Serial Number	Cal date	Due date
Signal Generator	Keysight	N5181A-6G	MY48180415	2024-10-23	2025-10-22
Signal Generator	Keysight	N5182B	MY57300617	2024-10-23	2025-10-22
Power supply	Keysight	E3640A	ZB2022656	2024-10-23	2025-10-22
Radio Communication Tester	R&S	CMW500	105082	2024-10-23	2025-10-22
Spectrum Analyzer	Aglient	N9010A	MY52220200	2024-10-23	2025-10-22
BT/WIFI Test Software	Tonscend	JS1120 V3.1.83	NA	NA	NA
RF Control Unit	Tonscend	JS0806-2	22F8060581	NA	NA
Power Sensor	Anritsu	ML2495A	2129005	2024-10-23	2025-10-22
Pulse Power Sensor	Anritsu	MA2411B	1911397	2024-10-23	2025-10-22
temperature and humidity box	SCOTEK	SCD-C40-80PRO	6866682020008	2024-10-23	2025-10-22
RF Cable	ETS-LINDGREN	RFC-NMS-100- NMS-350-IN	NA	2024-10-23	2025-10-22

	Test Equipment for Conducted Emission									
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date					
Receiver	Receiver R&S		101152	2024-10-23	2025-10-22					
LISN	R&S	ENV216	102874	2024-10-23	2025-10-22					
ISN	R&S	ENY81-CA6	1309.8590.03	2024-10-23	2025-10-22					
RF Cable ETS-LINDGREN Cable-CE TS01 / 2024-10-23										

Test Ed	quipment for F	Radiated Emis	sion(30MHz	-1000MHz	<u>z</u> )	
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date	
Receiver	R&S	ESR7	102497	2024-10-23	2025-10-22	
Test Software	ETS-LINDGREN	TiLE-FULL	ile-FULL NA		NA	
RF Cable	ETS-LINDGREN	RE Cable-TS01	NA	2024-10-23	2025-10-22	
Log periodic antenna	ETS-LINDGREN	VULB 9168	01475	2022-11-28	2025-11-27	
Pre-amplifier	Schwarzbeck	BBV9743B	00423	2024-10-23	2025-10-22	

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Test E	quipment for F	Radiated Emi	ssion(Above	1000MHz		
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date	
Frequency analyser	Keysight	N9010A	MY52221458	2024-10-23	2025-10-22	
RF Cable	ETS-LINDGREN	RE Cable-TS02	NA	2024-10-23	2025-10-22	
Horn Antenna	ETS-LINDGREN	3117	00252567	2022-11-28	2025-11-27	
Double ridged waveguide antenna	ETS-LINDGREN	3116C	00251780	2022-11-28	2025-11-27	
Test Software	ETS-LINDGREN	TiLE-FULL	NA	NA	NA	
Pre-amplifier	ETS-LINDGREN	3117-PA	252567	2024-10-23	2025-10-22	
Pre-amplifier	ETS-LINDGREN	3116C-PA	251780	2024-10-23	2025-10-22	

# 2.10 Assistant equipment used for test

Code	Equipment	Manufacturer	Model No.	Equipment No.
1	Computer	acer	N22C8	EMC notebook01
2	Adapter	HUAWEI	HW-100225C00	NA



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## 3 Test results and Measurement Data

## 3.1 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:

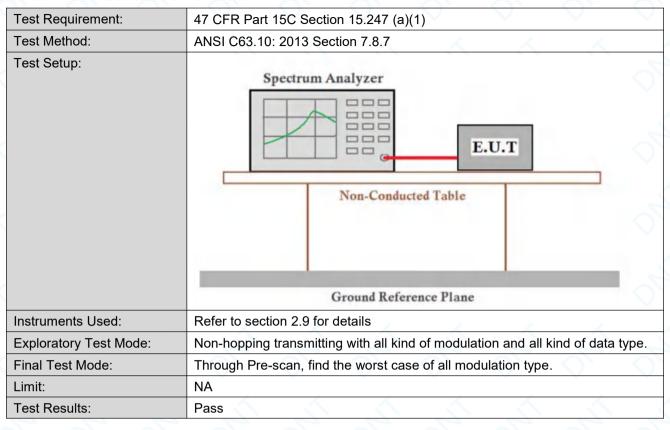
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output 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.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -0.68dBi.



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## 3.2 20dB Emission Bandwidth

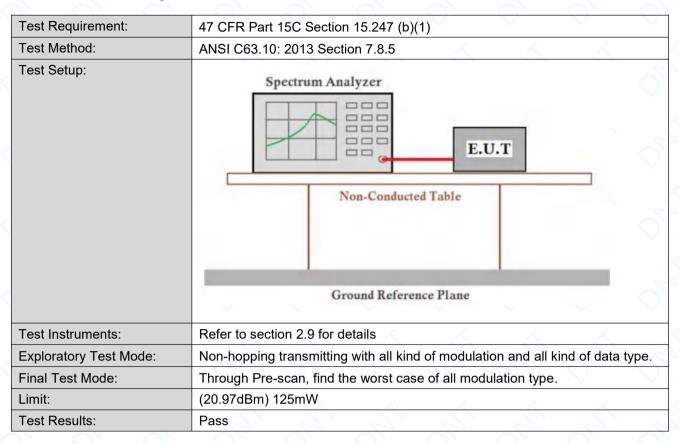


The detailed test data see: Appendix A



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## 3.3 Conducted Output Power

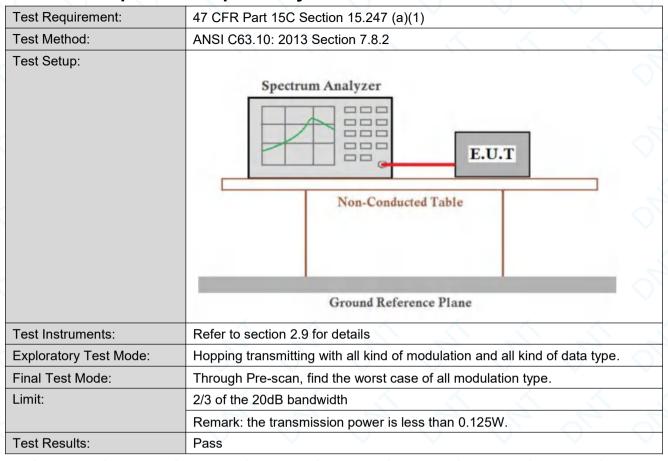


The detailed test data see: Appendix B



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## 3.4 Carrier Frequencies Separationy

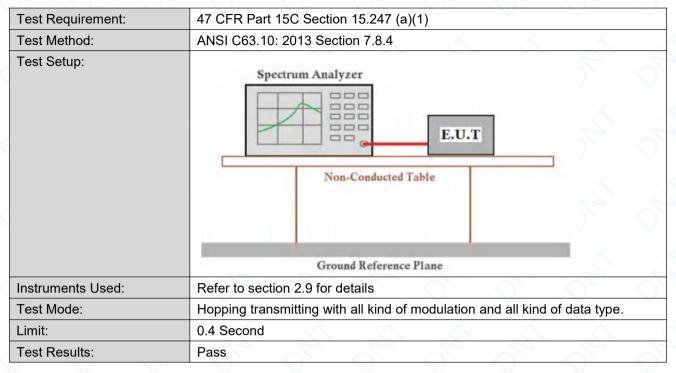


The detailed test data see: Appendix C



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## 3.5 Dwell Time



The detailed test data see: Appendix D



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3.6 Hopping Channel Number

# Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1) Test Method: ANSI C63.10: 2013 Section 7.8.3 Test Setup: Spectrum Analyzer Non-Conducted Table Instruments Used: Refer to section 2.9 for details Test Mode: Hopping transmitting with all kind of modulation Limit: At least 15 channels

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The detailed test data see: Appendix E

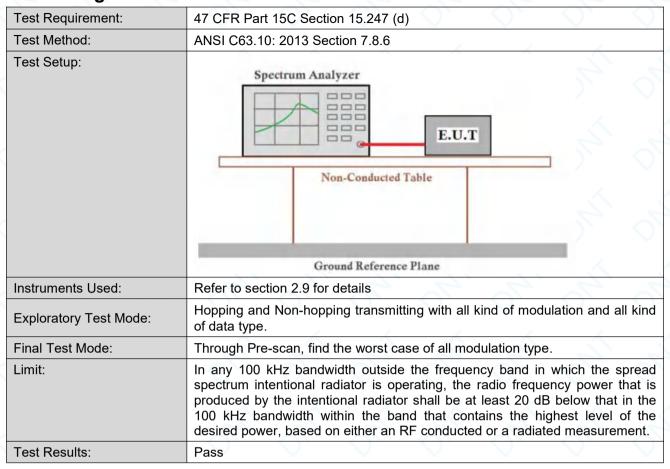
Pass

Test Results:



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## 3.7 Band-edge for RF Conducted Emissions



The detailed test data see: Appendix F



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# 3.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table  Ground Reference Plane
Instruments Used:	Refer to section 2.9 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the worst case of all modulation type.
Limit:	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.
Test Results:	Pass

The detailed test data see: Appendix G



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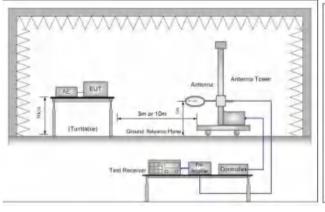
# 3.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section	n 15.209 and 15.20	05		~					
Test Method:	ANSI C63.10: 2013 Sect	ion 11.12								
Test Site:	Measurement Distance:	3m or 10m (Semi-	Anechoic Ch	amber)	6					
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark					
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak					
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average					
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak					
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak					
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average					
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak					
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak					
		Peak	1MHz	3MHz	Peak					
	Above 1GHz	Peak	1MHz	10Hz (DC ≥ 0.98) ≥1/T	Average					
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	(DC<0.98) Remark	Measurement distance (m)					
	0.009MHz-0.490MHz	2400/F(kHz)	- /	-<	300					
	0.490MHz-1.705MHz	24000/F(kHz)	-	6-7	30					
	1.705MHz-30MHz	30	()-	<u> </u>	30					
	30MHz-88MHz	100	40.0	Quasi-peak	3					
	88MHz-216MHz	150	43.5	Quasi-peak	3					
	216MHz-960MHz	200	46.0	Quasi-peak	3					
	960MHz-1GHz	500	54.0	Quasi-peak	3					
	Above 1GHz	500	54.0	Average	3					
	emissions is 20dB above applicable to the equipm	Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.								



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#### Test Setup:



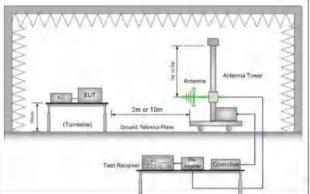


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

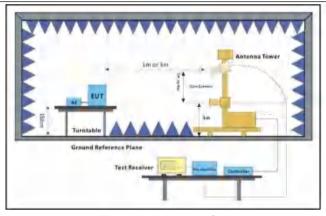


Figure 3. Above 1 GHz

## Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- . Repeat above procedures until all frequencies measured was complete.

Dongguan DN Testing Co., Ltd.



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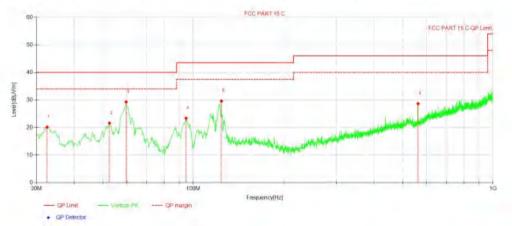
Date: Valle 0, 2020 1 ago: 217
Measurements Below 1000MHz
• RBW = 120 kHz
• VBW = 300 kHz
Detector = Peak
Trace mode = max hold
Peak Measurements Above 1000 MHz
• RBW = 1 MHz
• VBW ≥ 3 MHz
Detector = Peak
Sweep time = auto
Trace mode = max hold
Average Measurements Above 1000MHz
• RBW = 1 MHz
VBW = 10 Hz, when duty cycle is no less than 98 percent.
• VBW $\geqslant$ 1/T, when duty cycle is less than 98 percent where T is the minimum
transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Transmitting with all kind of modulations, data rates.
Charge+Transmitting mode.
Pretest the EUT at Transmitting mode.
Through Pre-scan, find the DH5 of data type is the worst case of All modulation type.
Refer to section 2.9 for details
Pass



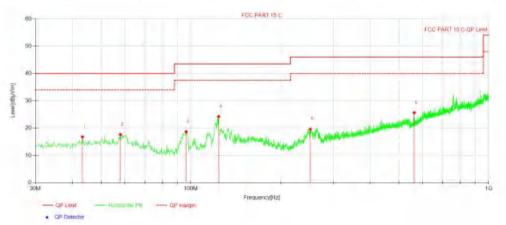
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#### Test data

## For 30-1000MHz



NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	Limit [dBµV/ m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	32.52	29.81	-9.65	20.16	40.00	19.84	100	281	PK	Vertical
2	52.51	29.75	-8.13	21.62	40.00	18.38	100	2	PK	Vertical
3	59.69	38.02	-8.73	29.29	40.00	10.71	100	244	PK	Vertical
4	94.61	36.83	-13.41	23.42	43.50	20.08	100	360	PK	Vertical
5	124.11	39.55	-9.94	29.61	43.50	13.89	100	359	PK	Vertical
6	562.64	30.23	-1.55	28.68	46.00	17.32	100	162	PK	Vertical



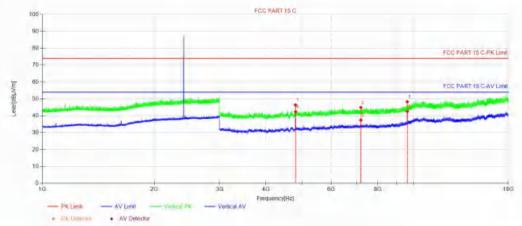
NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	43.19	25.19	-8.39	16.80	40.00	23.20	200	58	PK	Horizontal
2	57.94	26.19	-8.55	17.64	40.00	22.36	200	179	PK	Horizontal
3	96.36	31.85	-13.17	18.68	43.50	24.82	200	353	PK	Horizontal
4	123.91	34.22	-9.96	24.26	43.50	19.24	100	351	PK	Horizontal
5	251.79	28.50	-8.89	19.61	46.00	26.39	100	60	PK	Horizontal
6	562.64	27.21	-1.55	25.66	46.00	20.34	100	78	PK	Horizontal



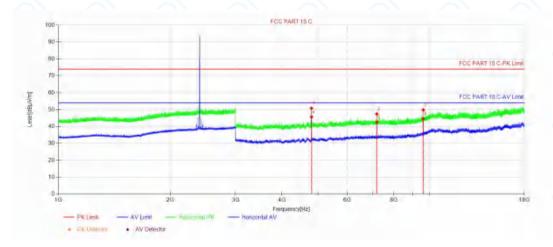
Report No.: DNT2505140270R5060-06540 Da

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## For above 1GHz DH5 2402MHz



NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Heigh t [cm]	Angle [°]	Remark	Polarity
1	4803.84	51.07	-4.61	46.46	74.00	27.54	150	146	Peak	Vertical
2	7206.21	46.67	-1.76	44.91	74.00	29.09	150	22	Peak	Vertical
3	9608.58	47.44	0.88	48.32	74.00	25.68	150	308	Peak	Vertical
4	4804.59	47.05	-4.61	42.44	54.00	11.56	150	128	AV	Vertical
5	7206.96	39.24	-1.76	37.48	54.00	16.52	150	22	AV	Vertical
6	9608.58	41.72	0.88	42.60	54.00	11.40	150	254	AV	Vertical



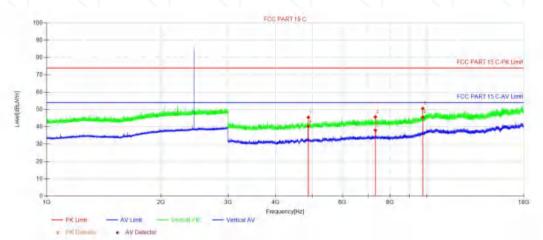
NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4803.84	55.44	-4.61	50.83	74.00	23.17	150	345	PK	Horizon
2	7206.21	49.21	-1.76	47.45	74.00	26.55	150	307	PK	Horizon
3	9607.83	48.98	0.87	49.85	74.00	24.15	150	271	PK	Horizon
4	4804.59	50.27	-4.61	45.66	54.00	8.34	150	345	AV	Horizon
5	7206.96	44.32	-1.76	42.56	54.00	11.44	150	307	AV	Horizon
6	9608.58	43.71	0.88	44.59	54.00	9.41	150	271	AV	Horizon



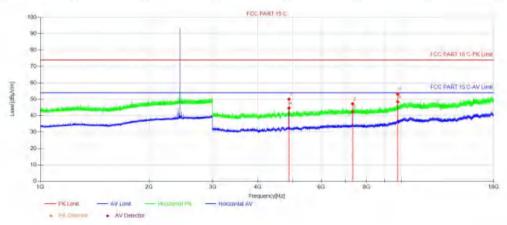
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## DH5 2441MHz



NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4881.84	50.24	-4.72	45.52	74.00	28.48	150	168	Peak	Vertical
2	7323.22	47.20	-1.49	45.71	74.00	28.29	150	20	Peak	Vertical
3	9763.84	48.98	1.64	50.62	74.00	23.38	150	316	Peak	Vertical
4	4882.59	44.94	-4.72	40.22	54.00	13.78	150	130	AV	Vertical
5	7323.97	39.60	-1.49	38.11	54.00	15.89	150	38	AV	Vertical
6	9764.59	43.96	1.64	45.60	54.00	8.40	150	316	AV	Vertical



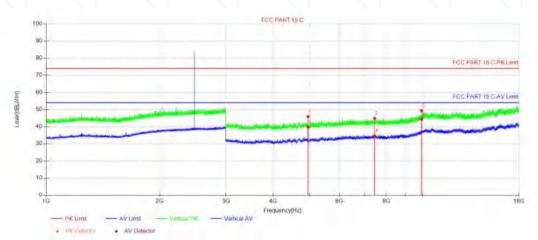
NO	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4881.84	54.81	-4.72	50.09	74.00	23.91	150	344	Peak	Horizon
2	7323.22	48.78	-1.49	47.29	74.00	26.71	150	309	Peak	Horizon
3	9763.84	51.46	1.64	53.10	74.00	20.90	150	253	Peak	Horizon
4	4882.59	49.42	-4.72	44.70	54.00	9.30	150	344	AV	Horizon
5	7323.97	43.86	-1.49	42.37	54.00	11.63	150	309	AV	Horizon
6	9764.59	46.79	1.64	48.43	54.00	5.57	150	253	AV	Horizon



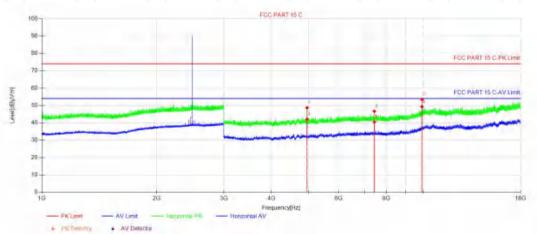
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## DH5 2480MHz



NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4959.85	50.69	-4.86	45.83	74.00	28.17	150	336	Peak	Vertical
2	7440.22	46.08	-1.34	44.74	74.00	29.26	150	54	Peak	Vertical
3	9919.85	47.11	2.26	49.37	74.00	24.63	150	284	Peak	Vertical
4	4960.60	44.44	-4.86	39.58	54.00	14.42	150	73	AV	Vertical
5	7440.22	35.97	-1.34	34.63	54.00	19.37	150	353	AV	Vertical
6	9920.60	42.07	2.27	44.34	54.00	9.66	150	284	AV	Vertical



NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	4959.85	53.54	-4.86	48.68	74.00	25.32	150	343	Peak	Horizon
2	7440.22	48.03	-1.34	46.69	74.00	27.31	150	19	Peak	Horizon
3	9919.85	51.26	2.26	53.52	74.00	20.48	150	272	Peak	Horizon
4	4960.60	46.96	-4.86	42.10	54.00	11.90	150	326	AV	Horizon
5	7440.97	41.88	-1.34	40.54	54.00	13.46	150	308	AV	Horizon
6	9920.60	47.06	2.27	49.33	54.00	4.67	150	272	AV	Horizon



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#### Note:

1. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including Ant.Factor and the Cable Factor etc.), The basic equation is as follows:

Result Level= Reading Level + Correct Factor(including Ant.Factor, Cable Factor etc.)

- 2. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
- 3. The amplitude of 18GHz to 25GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be report.
- 4. All channels had been pre-test, DH5 is the worst case, only the worst case was reported.

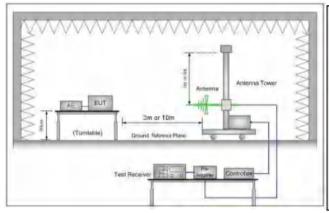


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## 3.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 1	5.209 and 15.205							
Test Method:	ANSI C63.10: 2013 Section 11.12								
Test Site:	Measurement Distance: 3m	or 10m (Semi-Anechoic	Chamber)						
Limit:	Frequency	Limit (dBuV/m)	Remark						
	30MHz-88MHz	40.0	Quasi-peak						
	88MHz-216MHz	43.5	Quasi-peak						
	216MHz-960MHz	46.0	Quasi-peak						
	960MHz-1GHz	54.0	Quasi-peak						
	Ab 4011=	54.0	Average Value						
	Above 1GHz	74.0	Peak Value						
Test Setup:									



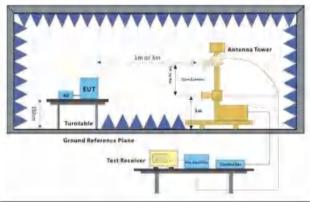


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

#### Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
- h. Test the EUT in the lowest channel, the Highest channel
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- . Repeat above procedures until all frequencies measured was complete.

**Test Configuration:** 

Measurements Below 1000MHz

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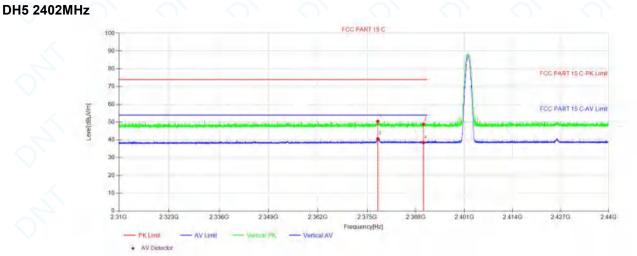


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	<ul> <li>RBW = 120 kHz</li> <li>VBW = 300 kHz</li> <li>Detector = Peak</li> <li>Trace mode = max hold</li> <li>Peak Measurements Above 1000 MHz</li> <li>RBW = 1 MHz</li> <li>VBW ≥ 3 MHz</li> <li>Detector = Peak</li> <li>Sweep time = auto</li> <li>Trace mode = max hold</li> <li>Average Measurements Above 1000MHz</li> <li>RBW = 1 MHz</li> <li>VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum</li> <li>transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</li> </ul>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.  Transmitting mode.
Final Test Mode:	Pretest the EUT Transmitting mode.  Through Pre-scan, find the DH5 of data type is the worst case of all modulation type.  Only the worst case is recorded in the report.
Instruments Used:	Refer to section 2.9 for details
Test Results:	Pass

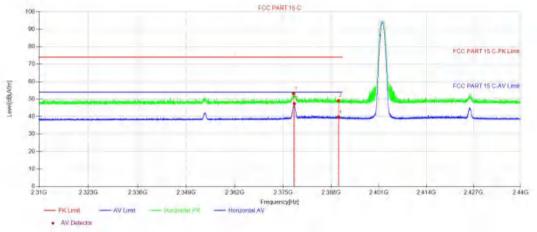


Test Date

#### 



NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	AV Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	2377.84	51.32	-0.84	50.48	74.00	23.52	150	308	Peak	Vertical
2	2390.01	49.60	-0.80	48.80	74.00	25.20	150	319	Peak	Vertical
3	2377.85	41.53	-0.84	40.69	54.00	13.31	150	161	AV	Vertical
4	2390.01	39.23	-0.80	38.43	54.00	15.57	150	319	AV	Vertical

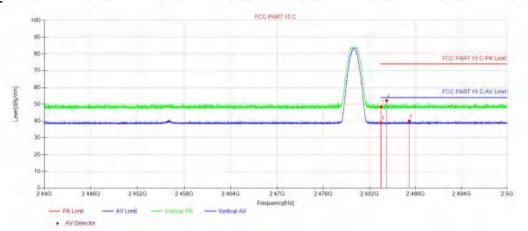


N	О.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	AV Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
	1	2377.83	54.00	-0.84	53.16	74.00	20.84	150	314	Peak	Horizon
2	2	2390.01	49.80	-0.80	49.00	74.00	25.00	150	32	Peak	Horizon
(	3	2378.05	48.26	-0.84	47.42	54.00	6.58	150	314	AV	Horizon
4	4	2390.01	40.60	-0.80	39.80	54.00	14.20	150	302	AV	Horizon

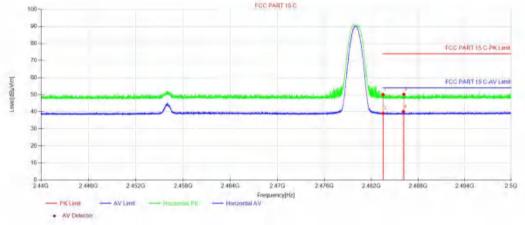


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#### DH5 2480MHz



NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	2483.50	48.69	-0.29	48.40	74.00	25.60	150	293	Peak	Vertical
2	2484.24	52.49	-0.28	52.21	74.00	21.79	150	187	Peak	Vertical
3	2483.50	39.27	-0.29	38.98	54.00	15.02	150	37	AV	Vertical
4	2487.21	40.26	-0.26	40.00	54.00	14.00	150	187	AV	Vertical



NO.	Freq. [MHz]	Reading Level [dBµV]	Correct Factor [dB/m]	Result Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Remark	Polarity
1	2483.50	50.33	-0.29	50.04	74.00	23.96	150	4	Peak	Horizon
2	2486.18	50.53	-0.27	50.26	74.00	23.74	150	29	Peak	Horizon
3	2483.50	39.33	-0.29	39.04	54.00	14.96	150	123	AV	Horizon
4	2486.12	40.39	-0.27	40.12	54.00	13.88	150	223	AV	Horizon

#### Note:

1. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including Ant.Factor and the Cable Factor etc.), The basic equation is as follows:

Result Level= Reading Level + Correct Factor(including Ant.Factor, Cable Factor etc.

2.All channels had been pre-test, DH5 is the worst case, only the worst case was reported.

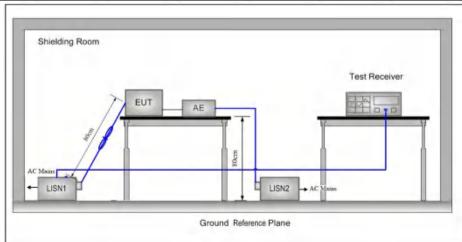


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## 3.11 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 1	15.207					
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150kHz to 30MHz						
Limit:	<b>5</b>	Limit	(dBuV)				
	Frequency range (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.						
Test Setun:	1) The mains terminal dist room. 2) The EUT was connecte Impedance Stabilization Not impedance. The power cat a second LISN 2, which was plane in the same way as to multiple socket outlet strip single LISN provided the ration of the tabletop EUT was placed on the horizontal gray. The test was performed of the EUT shall be 0.4 m for vertical ground reference preference plane. The LISN unit under test and bonded mounted on top of the group between the closest points the EUT and associated ed in order to find the maximule equipment and all of the impany to the test and so conditions.	d to AC power source the etwork) which provides a ples of all other units of the sounded to the ground the LISN 1 for the unit be was used to connect multing of the LISN was not placed upon a non-metall and for floor-standing arrandound reference plane, with a vertical ground reference was bonded to the 1 was placed 0.8 m from to a ground reference plane. This of the LISN 1 and the Eleptipment was at least 0.8 m emission, the relative terface cables must be cleased.	rough a LISN 1 (Line 50Ω/50μH + 5Ω linear ne EUT were connected to reference ing measured. A stiple power cables to a exceeded. It table 0.8m above the regement, the EUT was reference plane. The rear reference plane. The norizontal ground in the boundary of the lane for LISNs a distance was JT. All other units of 8 m from the LISN 2. positions of				

Test Setup:



Exploratory Test Mode:

Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.

Charge + Transmitting mode.

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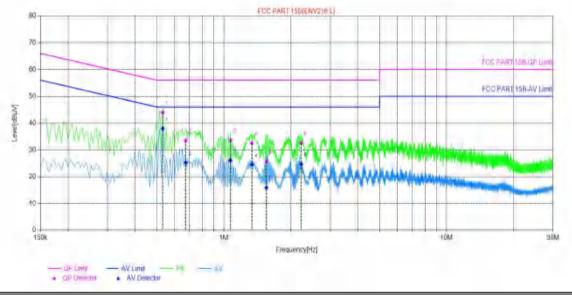
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Final Test Mode:	Through Pre-scan, find the the worst case.
Instruments Used:	Refer to section 2.9 for details
Test Results:	PASS

#### Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

#### Live Line:

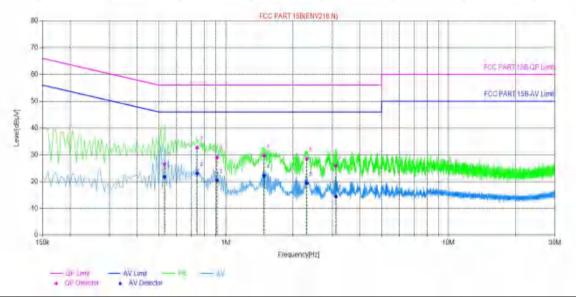


Final	Data Lis	t							
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	ΑV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.5311	9.86	43.94	56.00	12.06	37.92	46.00	8.08	PASS
2	0.6737	9.78	33.52	56.00	22.48	25.16	46.00	20.84	PASS
3	1.0678	9.72	33.65	56.00	22.35	26.09	46.00	19.91	PASS
4	1.3355	9.73	32.53	56.00	23.47	24.54	46.00	21.46	PASS
5	1.5509	9.73	25.74	56.00	30.26	15.90	46.00	30.10	PASS
6	2.2242	9.74	32.54	56.00	23.46	24.73	46.00	21.27	PASS



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## Neutral Line:



Final Data List													
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	ΑV Limit [dBμV]	AV Margin [dB]	Verdict				
1	0.5304	9.73	26.57	56.00	29.43	21.83	46.00	24.17	PASS				
2	0.7425	9.83	32.70	56.00	23.30	23.02	46.00	22.98	PASS				
3	0.9117	9.73	29.03	56.00	26.97	20.50	46.00	25.50	PASS				
4	1.4820	9.73	29.70	56.00	26.30	22.22	46.00	23.78	PASS				
5	2.3041	9.80	28.46	56.00	27.54	19.37	46.00	26.63	PASS				
6	3.1176	9.88	25.99	56.00	30.01	14.41	46.00	31.59	PASS				

#### Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. The Measurement (Result Level) is calculated by Reading Level adding the Correct Factor(maybe including LISN Factor and the Cable Factor etc.), The basic equation is as follows:

Result Level= Reading Level + Correct Factor(including LISN Factor, Cable Factor etc



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# 4 Appendix

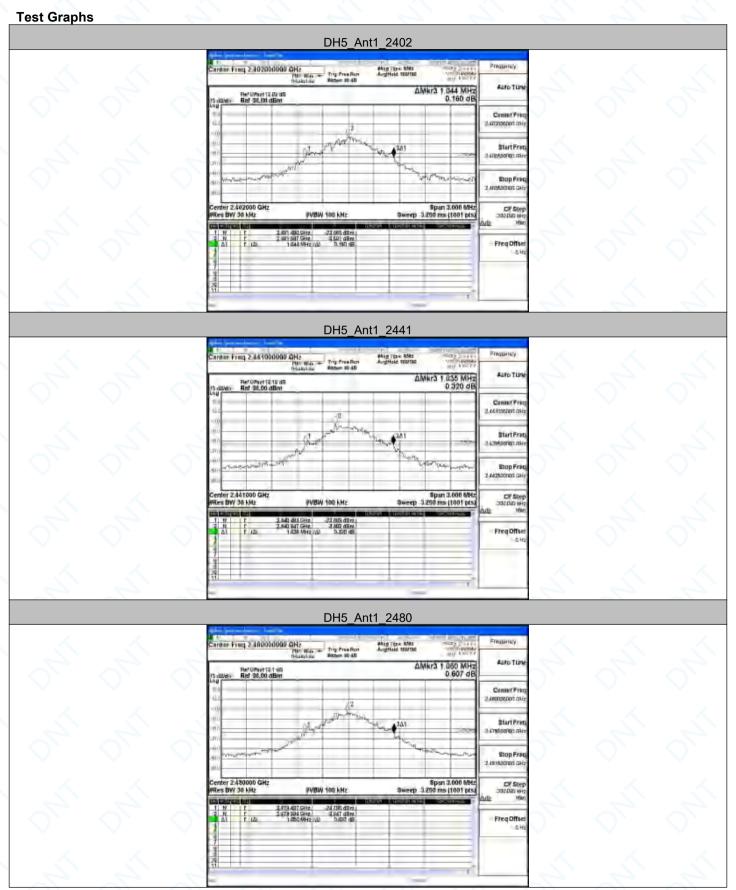
## Appendix A: 20dB Emission Bandwidth

#### **Test Result**

1 CSt IXCSuit							
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.044	2401.490	2402.534	/	
		2441	1.035	2440.493	2441.528		
		2480	1.050	2479.487	2480.537		
	Ant1	2402	1.299	2401.373	2402.672		
2DH5		2441	1.326	2440.349	2441.675		
		2480	1.350	2479.337	2480.687		
	Ant1	2402	1.269	2401.367	2402.636		
3DH5		2441	1.260	2440.361	2441.621		
		2480	1.302	2479.352	2480.654		

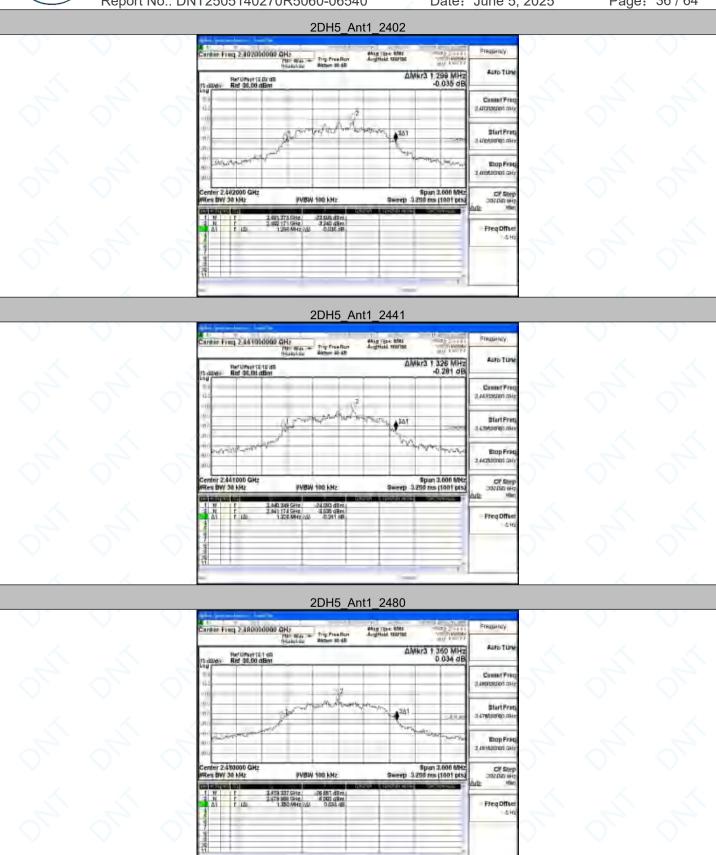


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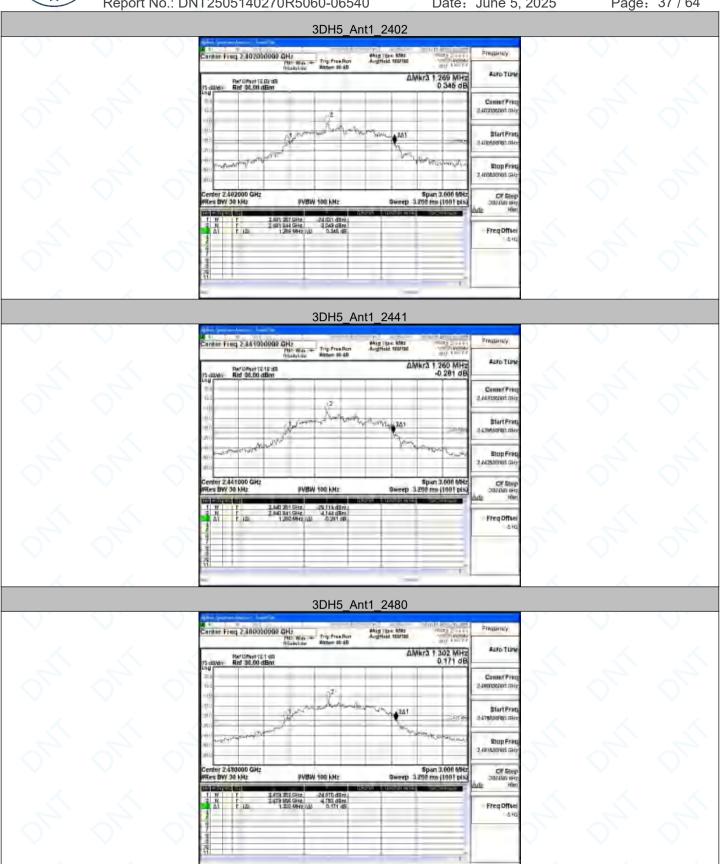


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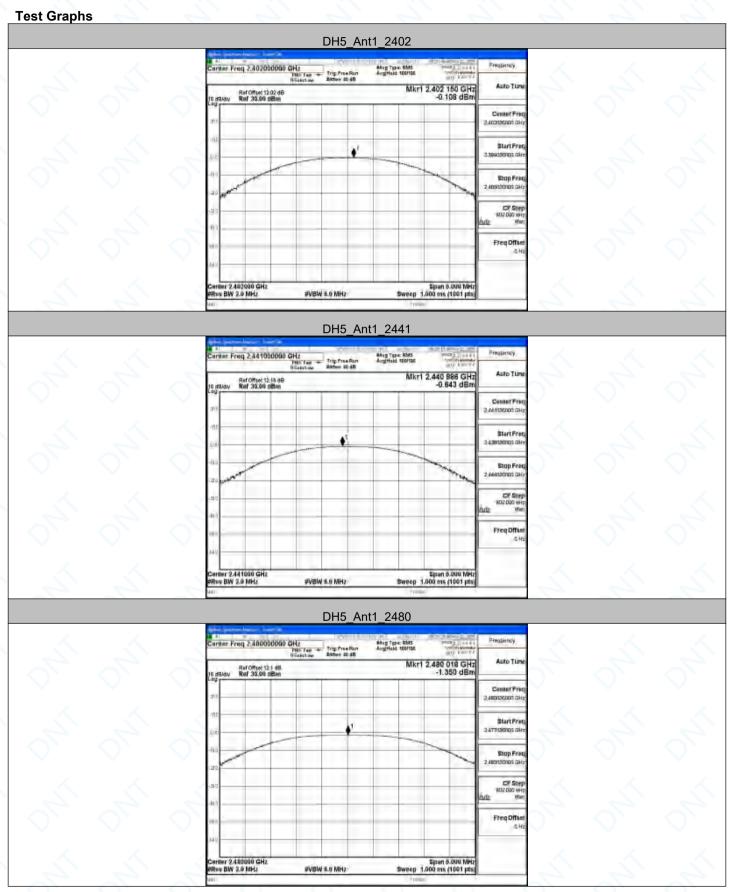
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### Appendix B: Maximum conducted output power

1 CSt 1 CSuit					
Test Mode	Antenna	Freq(MHz)	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
		2402	-0.11	≤20.97	PASS
DH5	Ant1	2441	-0.64	≤20.97	PASS
		2480	-1.35	≤20.97	PASS
		2402	0.44	≤20.97	PASS
2DH5	Ant1	2441	-0.08	≤20.97	PASS
		2480	-0.77	≤20.97	PASS
		2402	0.78	≤20.97	PASS
3DH5	Ant1	2441	0.20	≤20.97	PASS
<u> </u>		2480	-1.46	≤20.97	PASS

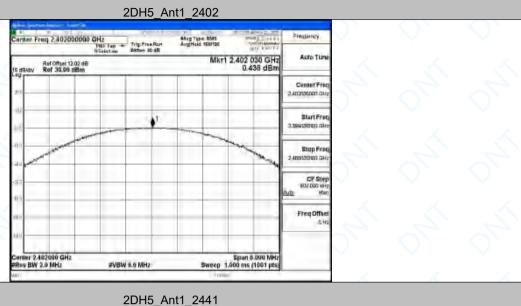


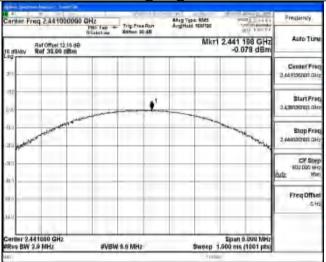
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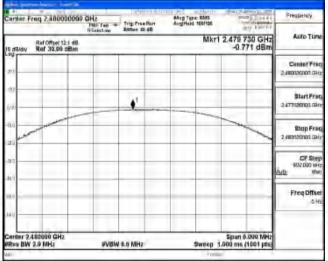


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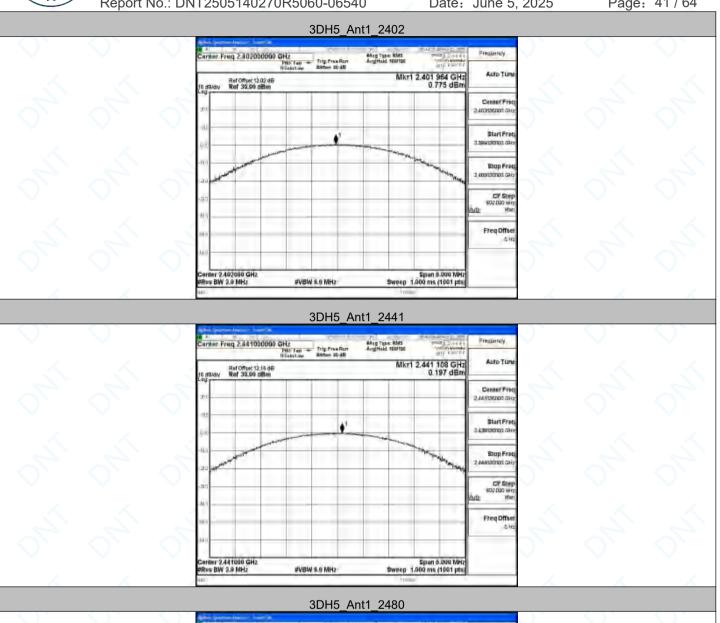


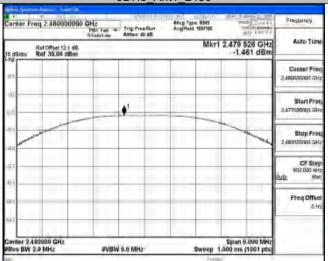
### 2DH5\_Ant1\_2480





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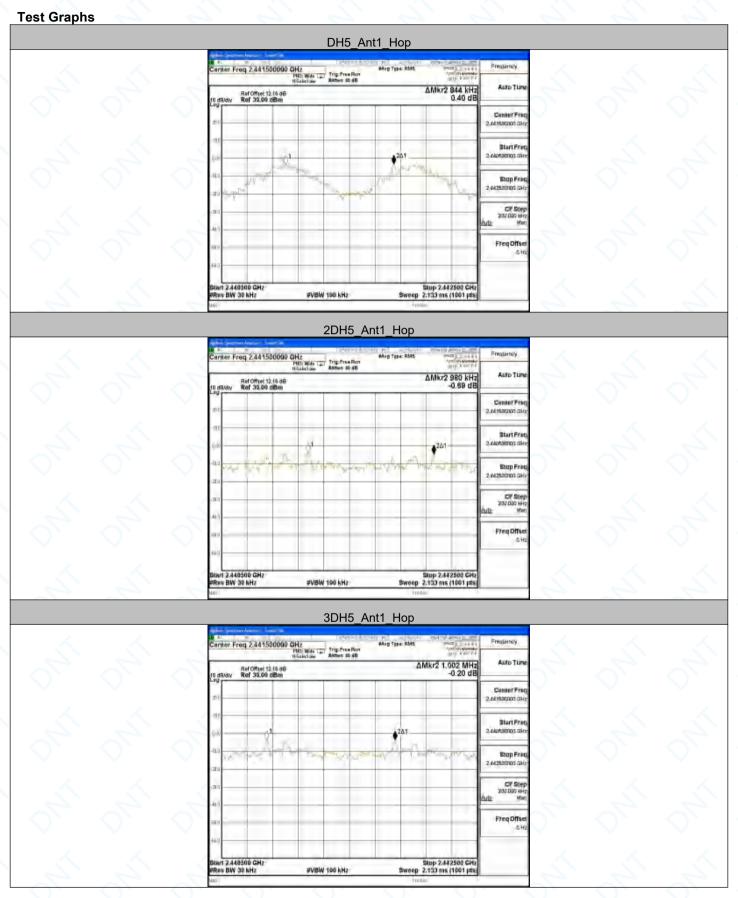
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### Appendix C: Carrier frequency separation

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Нор	0.844	≥0.7	PASS
2DH5	Ant1	Нор	0.98	≥0.9	PASS
3DH5	Ant1	Нор	1.002	≥0.868	PASS



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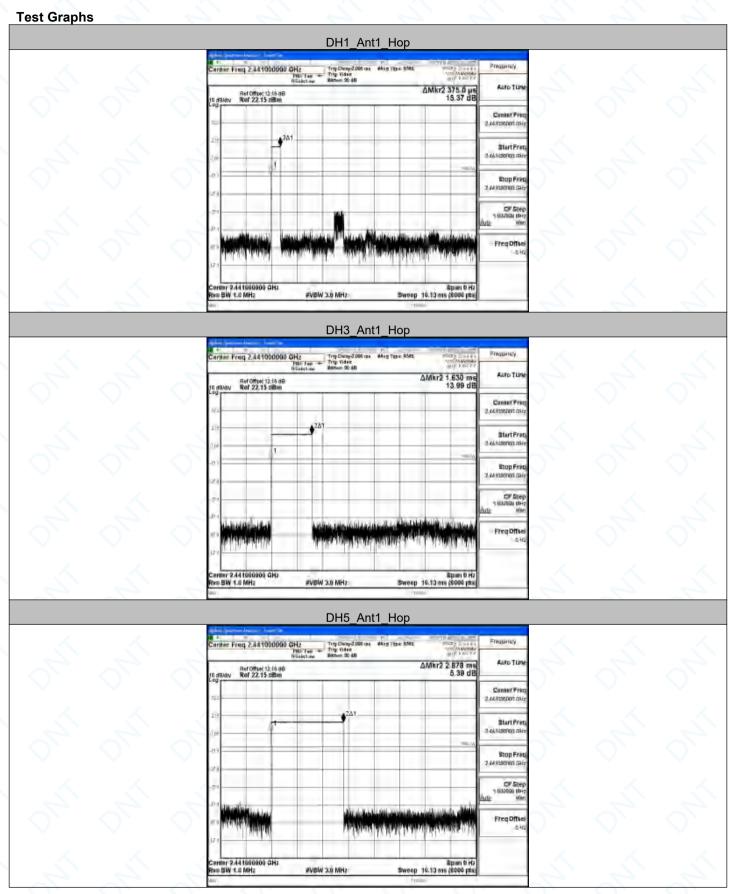
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### **Appendix D: Dwell Time**

i oot i toouit							
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.375	320	0.12	≤0.4	PASS
DH3	Ant1	Нор	1.630	160	0.261	≤0.4	PASS
DH5	Ant1	Нор	2.878	106.67	0.307	≤0.4	PASS
2DH1	Ant1	Нор	0.385	320	0.123	≤0.4	PASS
2DH3	Ant1	Нор	1.637	160	0.262	≤0.4	PASS
2DH5	Ant1	Нор	2.884	106.67	0.308	≤0.4	PASS
3DH1	Ant1	Нор	0.385	320	0.123	≤0.4	PASS
3DH3	Ant1	Нор	1.635	160	0.262	≤0.4	PASS
3DH5	Ant1	Нор	2.887	106.67	0.308	≤0.4	PASS

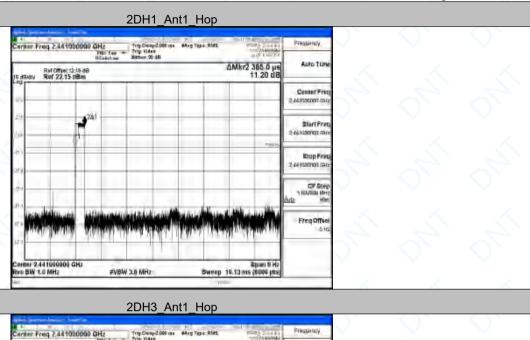


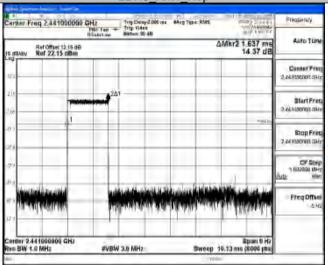
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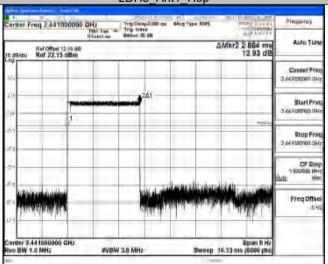


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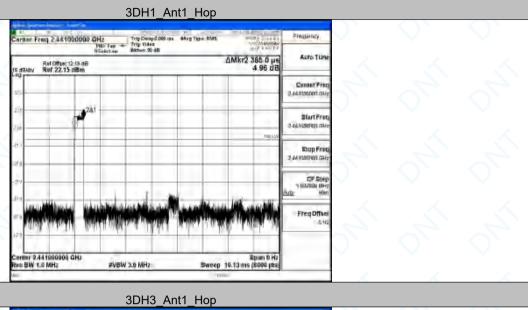


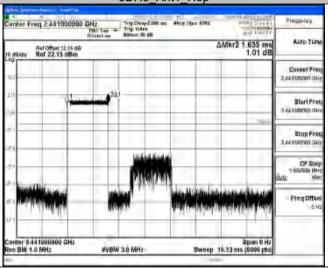
#### 2DH5\_Ant1\_Hop



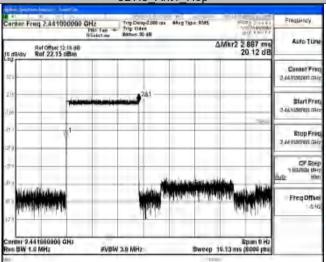


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#### 3DH5\_Ant1\_Hop





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### Appendix E: Number of hopping channels

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Нор	79	≥15	PASS
2DH5	Ant1	Нор	79	≥15	PASS
3DH5	Ant1	Нор	79	≥15	PASS



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### Appendix F: Band edge measurements

TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
		Low	2402	-2.68	-49.55	≤-22.68	PASS
DH5	Ant1	High	2480	-4.56	-50.91	≤-24.56	PASS
рпэ	Anti	Low	Hop_2402	-5.29	-50.47	≤-25.29	PASS
		High	Hop_2480	-4.44	-50.45	≤-24.44	PASS
		Low	2402	-6.83	-51.82	≤-26.83	PASS
2DH5	Ant1	High	2480	-5.00	-49.72	≤-25	PASS
ZDH5 An	Anti	Low	Hop_2402	-7.42	-49.94	≤-27.42	PASS
		High	Hop_2480	-6.78	-50.98	≤-26.78	PASS
	_	Low	2402	-2.73	-49.96	≤-22.73	PASS
3DH5 Ant1	A 14	High	2480	-9.08	-50.95	≤-29.08	PASS
	Anti	Low	Hop_2402	-3.82	-50.99	≤-23.82	PASS
		High	Hop 2480	-3.93	-51.29	≤-23.93	PASS



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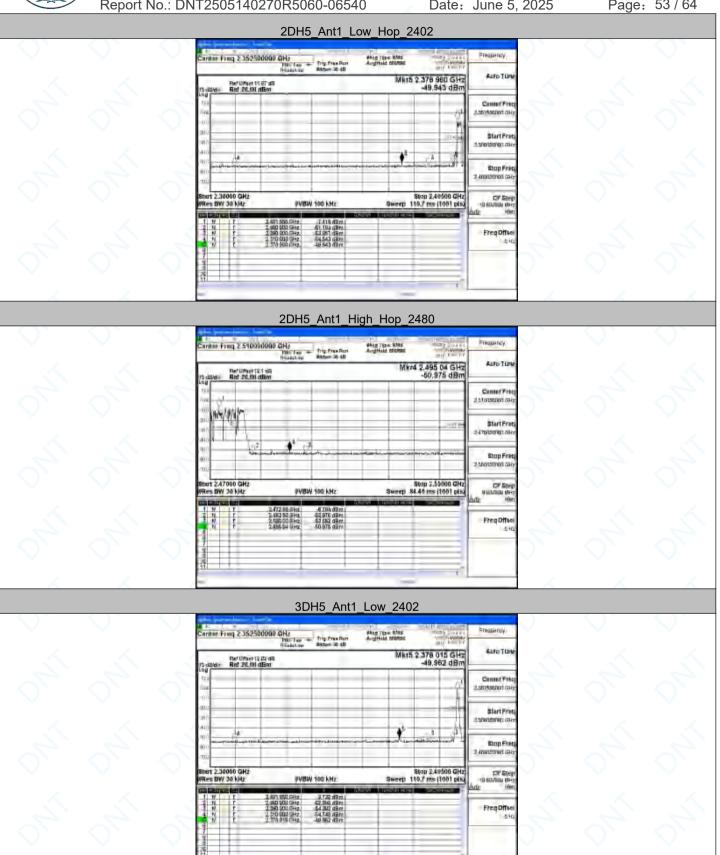


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# DH5\_Ant1\_High\_Hop\_2480 armer Freq 2.51000d000 GHz Man Tipe Hiss And Head Property Auto Tun Conner Fre StartFree Stop 2,55000 GHz Sweep 84.40 ms (1001 pls) Frequite 2DH5 Ant1 Low 2402 rnor From ≥ 352500000 GHz Mag Tipe Riss Angitheki stoppe Stop 2,40500 GHz Sweep 110,7 ms (1001 pls) PVBW 100 KHZ 2DH5\_Ant1\_High\_2480 rner Freq 2.5100000000 GHz Alag Tipe: Rites AngiHeld British Auto Tun Ref 26.00 dBm Stop Frie Stop 2,55000 GHz Sweep 84.40 ms (1001 pis) Freq Diffe



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## Report No.: DNT2505140270R5060-06540 Page: 54 / 64 Date: June 5, 2025 3DH5\_Ant1\_High\_2480 erner Freq 2.510000000 GHz Mag Tipe lites Auto Tue Ref 26.00 dBm Conner#16 StartFree Stop 2,55000 GHz Sweep 84.40 ms (1001 pls) PVBW 100 KHZ Frequite 3DH5\_Ant1\_Low\_Hop\_2402 rn Frag 2 352500000 GHz day Tipe His Augital Stope Start Fra Stop 2,40500 GHz Sweep 110,7 ms (1001 pis) 3DH5\_Ant1\_High\_Hop\_2480 riter Freq 2.5100000000 GHz day Tipe lites Auto Tun Ref 2010 dBm White **Stop Fri** ert 2.47000 GHz Res BW 30 kHz Stop 2,55000 GHz Sweep 84.40 ms (1001 pis) CF SH SUDDON IN Freq Diffe



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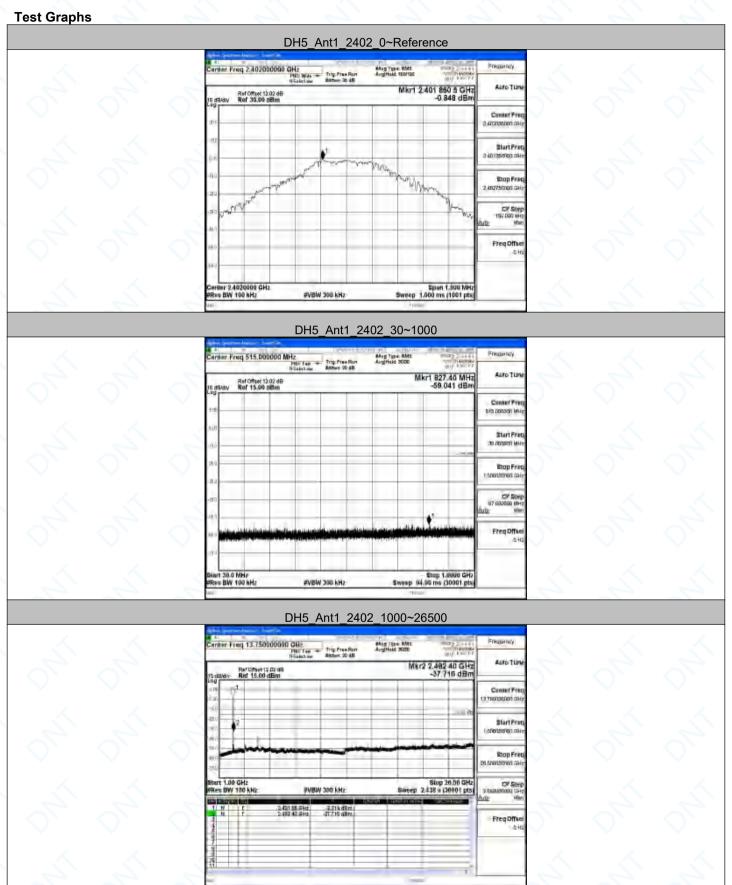
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### **Appendix G: Conducted Spurious Emission**

lest Result				D-fll	Decelle	1 ::4		
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict	
			Reference	-0.85	-0.85		PASS	
		2402	30~1000	-0.85	-59.04	≤-20.85	PASS	
			1000~26500	-0.85	-37.72	≤-20.85	PASS	
			Reference	-1.39	-1.39		PASS	
DH5	Ant1	2441	30~1000	-1.39	-58.9	≤-21.39	PASS	
			1000~26500	-1.39	-41.84	≤-21.39	PASS	
			Reference	-2.14	-2.14	/	PASS	
		2480	30~1000	-2.14	-58.64	≤-22.14	PASS	
			1000~26500	-2.14	-40.89	≤-22.14	PASS	
			Reference	-0.93	-0.93	<u> </u>	PASS	
		2402	30~1000	-0.93	-59.42	≤-20.93	PASS	
	/		1000~26500	-0.93	-38.9	≤-20.93	PASS	
			Reference	-1.51	-1.51		PASS	
2DH5	Ant1	2441	30~1000	-1.51	-59.32	≤-21.51	PASS	
			1000~26500	-1.51	-41.08	≤-21.51	PASS	
			Reference	-2.20	-2.20		PASS	
		2480	30~1000	-2.20	-58.92	≤-22.2	PASS	
			1000~26500	-2.20	-42.05	≤-22.2	PASS	
			Reference	-0.90	-0.90		PASS	
\(\times\)		2402	30~1000	-0.90	-58.64	≤-20.9	PASS	
			1000~26500	-0.90	-37.73	≤-20.9	PASS	
			Reference	-1.45	-1.45	/	PASS	
3DH5	Ant1	Ant1	2441	30~1000	-1.45	-58.24	≤-21.45	PASS
		1000~26500	-1.45	-42.53	≤-21.45	PASS		
		Reference	-2.24	-2.24		PASS		
		2480	30~1000	-2.24	-58.63	≤-22.24	PASS	
/ /		1000~26500	-2.24	-41.31	≤-22.24	PASS		

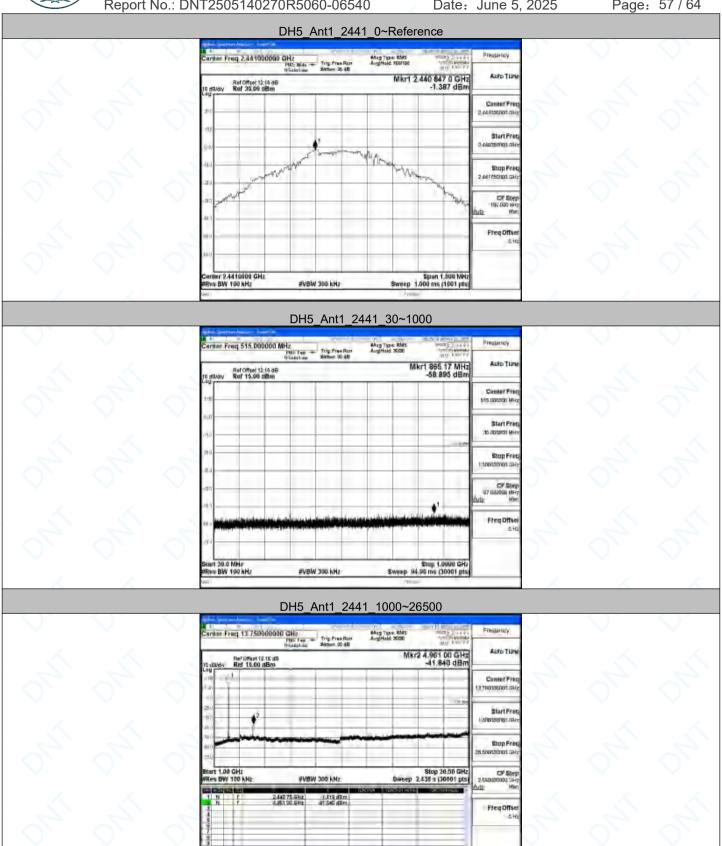


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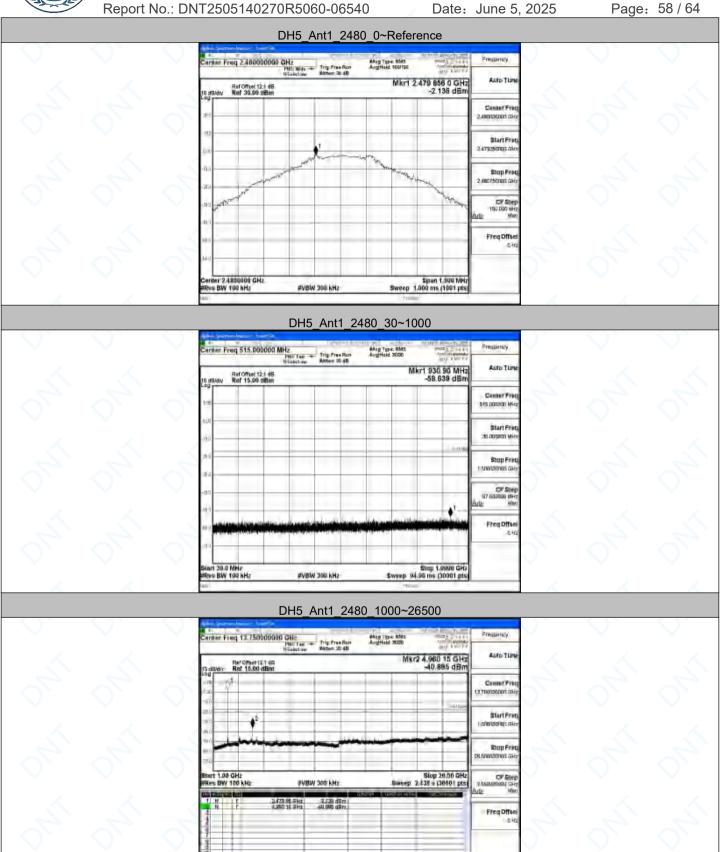




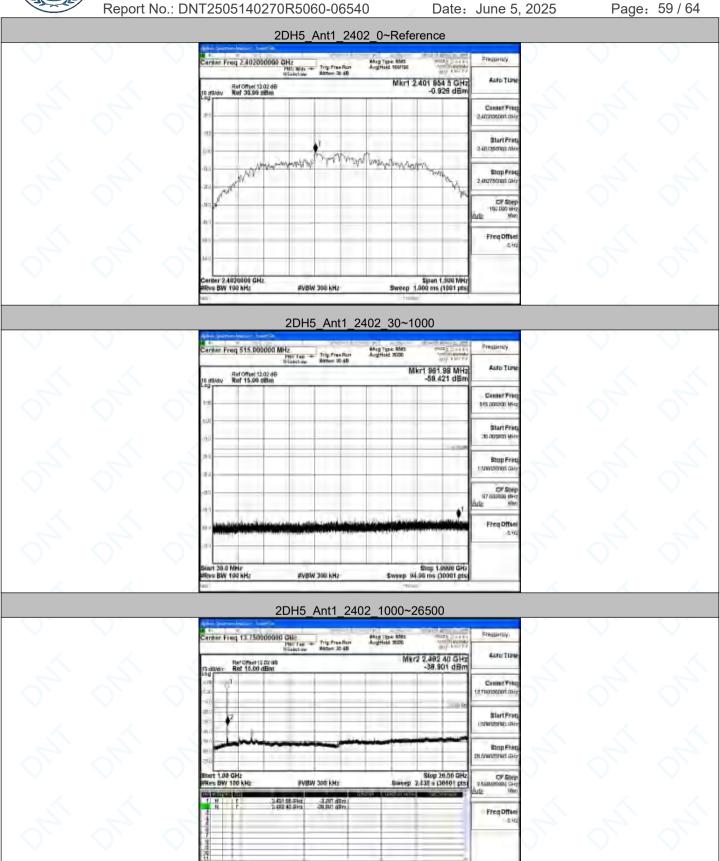
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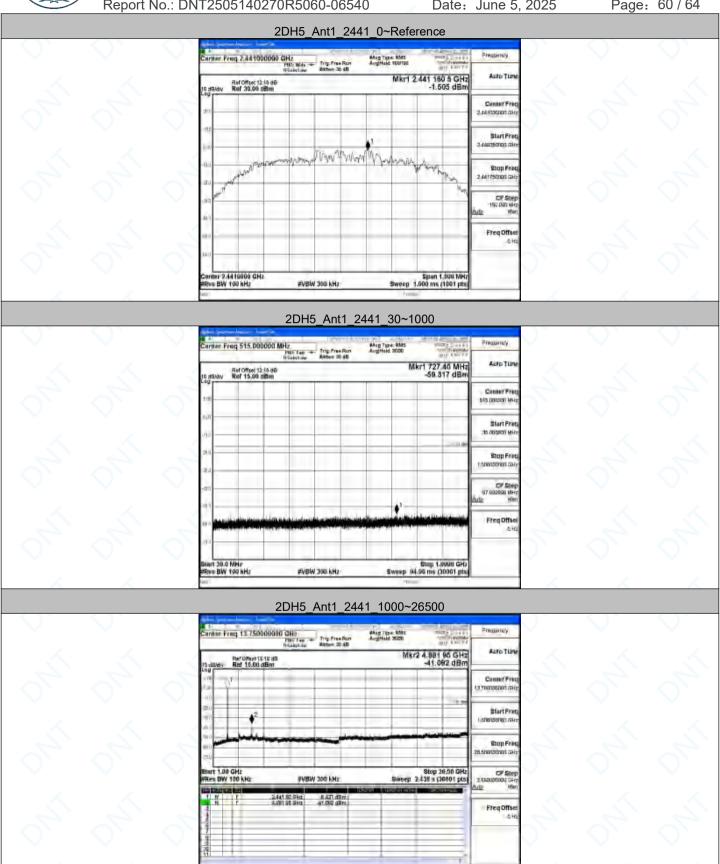






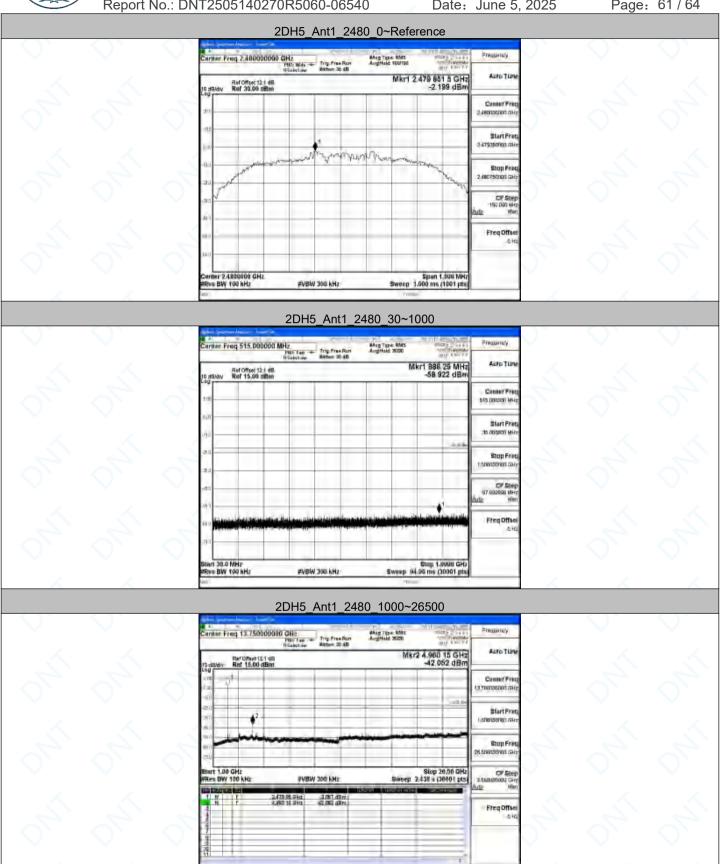


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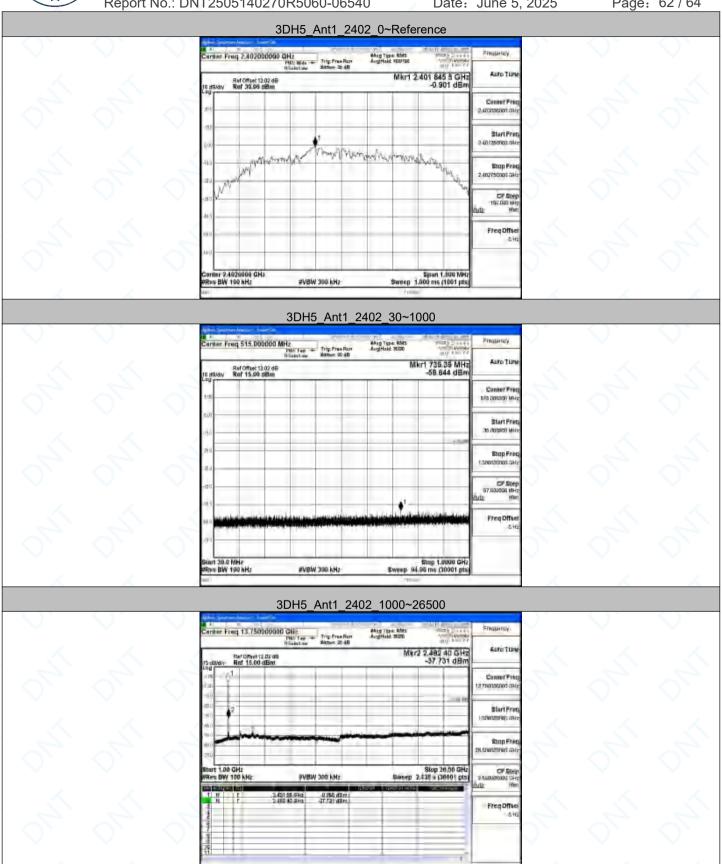


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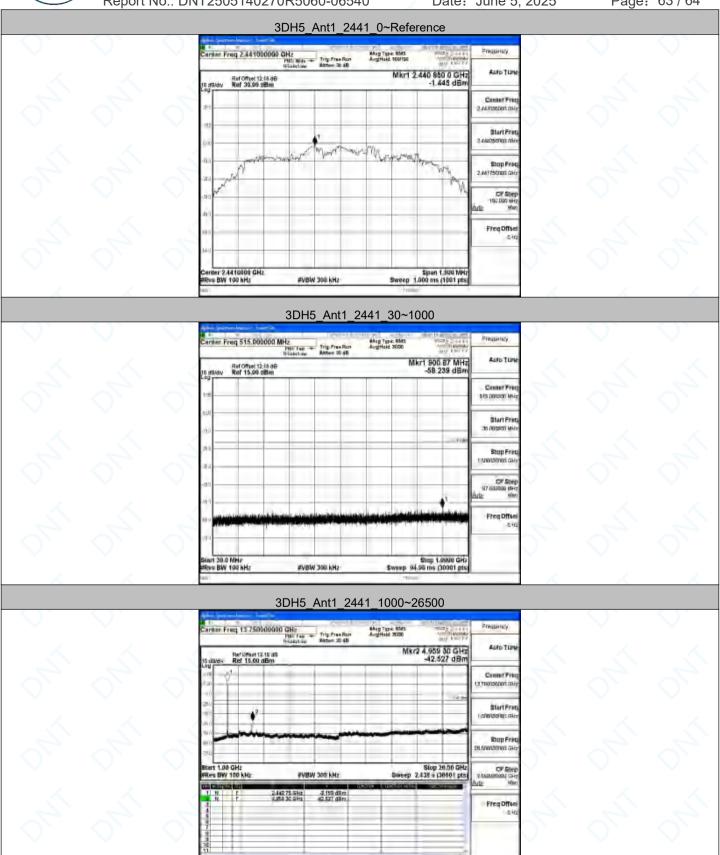


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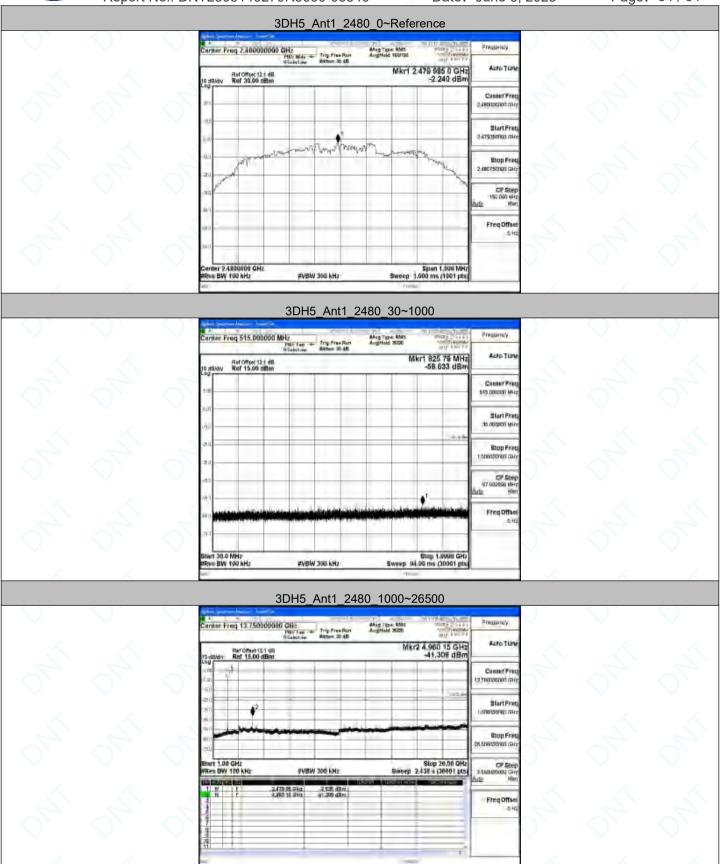


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#### The End Report