





FCC Test Report

Application No.: DNT2408260275R1196-02580

Applicant: Shenzhen Baojia Battery Technology Co. Ltd.

Address of Block A, Yonghe Road, Tongfuyu Industrial Zone, Heping, Fuyong, Baoan,

Applicant: Shenzhen, China

EUT Description: Miffy Bluetooth Speaker

Model No.: MBS100

FCC ID: SL7MBS100

Power Supply: DC 3.7V From Battery;DC 5V From Adapter

Charging Voltage: DC 5V

Trade Mark: miffy

47 CFR FCC Part 2, Subpart J

Standards: 47 CFR Part 15, Subpart C

ANSI C63.10: 2020

Date of Receipt: 2024/08/11

Date of Test: 2024/08/11 to 2024/09/04

Date of Issue: 2024/09/04

Test Result: PASS

Prepared By: Wayne . Jin (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.

Dongguan DN Testing Co., Ltd.



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	Sep 04, 2024.	Valid	Original Report



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1 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result
Antenna Requirement	15.203/247(b)		Clause 3.1	PASS
20dB Emission Bandwidth	15.247 (a)(1)	ANSI C63.10: 2020	Clause 3.2	PASS
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10: 2020	Clause 3.3	PASS
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10: 2020	Clause 3.4	PASS
Dwell Time	15.247 (a)(1)	ANSI C63.10: 2020	Clause 3.5	PASS
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10: 2020	Clause 3.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10: 2020	Clause 3.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10: 2020	Clause 3.8	PASS
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10: 2020	Clause 3.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10: 2020	Clause 3.10	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10: 2020	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



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2.2 General Description of EUT

Manufacturer:	Shenzhen Baojia Battery Technology Co. Ltd.
Address of Manufacturer:	Block A, Yonghe Road, Tongfuyu Industrial Zone, Heping, Fuyong, Baoan, Shenzhen, China
Test EUT Description:	Miffy Bluetooth Speaker
Model No.:	MBS100
Additional Model(s):	
Chip Type:	AB5365C
Serial number:	PR2408260275R1196
Power Supply:	DC 3.7V From Battery;DC 5V From Adapter
Charging Voltage:	DC 5V
Trade Mark:	N/A
Hardware Version:	V1.0
Software Version:	V1.1.1
Operation Frequency:	2402 MHz to 2480 MHz
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Type of Modulation:	GFSK,π/4-DQPSK,8DPSK
Sample Type:	
Antenna Type:	☐ External, ⊠ Integrated
Antenna Ports:	
A	⊠ Provided by applicant
Antenna Gain*:	2.50dBi
	⊠ 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:

*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.



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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
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		

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 data rate.		



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2.5 Power Setting of Test Software

Software Name	\bigcirc	FCC_assist_1.0.2.2	\bigcirc , \bigcirc , \bigcirc , \bigcirc ,
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 DE Consistent Englisher	9KHz-1GHz:±0.746dB
	Conducted RF Spurious Emission	1GHz-26GHz:±1.328dB

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No.	Item	Measurement Uncertainty		
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)		
	0, 0, 0, 0, 0,	± 4.8dB (Below 1GHz)		
	Dadiated Emission	± 4.8dB (1GHz to 6GHz)		
2	Radiated Emission	± 4.5dB (6GHz to 18GHz)		
		± 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	2023-10-25	2024-10-24
Signal Generator	Keysight	N5182B	MY57300617	2023-10-25	2024-10-24
Power supply	Keysight	E3640A	ZB2022656	2023-10-25	2024-10-24
Radio Communication Tester	R&S	CMW500	105082	2023-10-25	2024-10-24
Spectrum Analyzer	Aglient	N9010A	MY52221458	2023-10-25	2024-10-24
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	2023-10-25	2024-10-24
Pulse Power Sensor	Anritsu	MA2411B	1911397	2023-10-25	2024-10-24
temperature and humidity box	SCOTEK	SCD-C40-80PRO	6866682020008	2023-10-25	2024-10-24

	Test Equipment for Conducted Emission									
Description Manufacturer Model Serial Number Cal Date										
Receiver	Receiver R&S		101152	2023-10-24	2024-10-23					
LISN	LISN R&S		102874	2023-10-24	2024-10-23					
ISN	R&S	ENY81-CA6	1309.8590.03	2023-10-24	2024-10-23					

Test Ed	quipment for F	Radiated Emis	sion(30MHz	-1000MH	z)
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Receiver	R&S	ESR7	102497	2023-10-24	2024-10-23
Test Software	ETS-LINDGREN	TiLE-FULL	NA	NA	NA
RF Cable	ETS-LINDGREN	RFC-NMS-100- NMS-350-IN	NA	2023-10-24	2024-10-23
Log periodic antenna	ETS-LINDGREN	VULB 9168	01475	2023-10-24	2024-10-23
Pre-amplifier	Schwarzbeck	BBV9743B	00423	2023-10-24	2024-10-23



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lest E	quipment for I	Radiated Emi	ssion(Above	1000MHz	Z)	
Description	Manufacturer	Model	Serial Number	Cal Date	Due Date	
Frequency analyser	Keysight	N9010A	MY52221458	2023-10-24	2024-10-23	
RF Cable	ETS-LINDGREN	RFC-NMS-100- NMS-350-IN	NA	2023-10-24	2024-10-23	
Horn Antenna	ETS-LINDGREN	3117	00252567	2023-10-24	2024-10-23	
Double ridged waveguide antenna	ETS-LINDGREN	3116C	00251780	2023-10-24	2024-10-23	
Test Software	ETS-LINDGREN	TiLE-FULL	NA	NA	NA	
Pre-amplifier	ETS-LINDGREN	3117-PA	252567	2023-10-24	2024-10-23	
Pre-amplifier	ETS-LINDGREN	3116C-PA	251780	2023-10-24	2024-10-23	

2.10 Assistant equipment used for test

Code	Equipment	Manufacturer	Model No.	Equipment No.	
1	Computer	acer	N22C8	EMC notebook01	
2	2 Adapter		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:

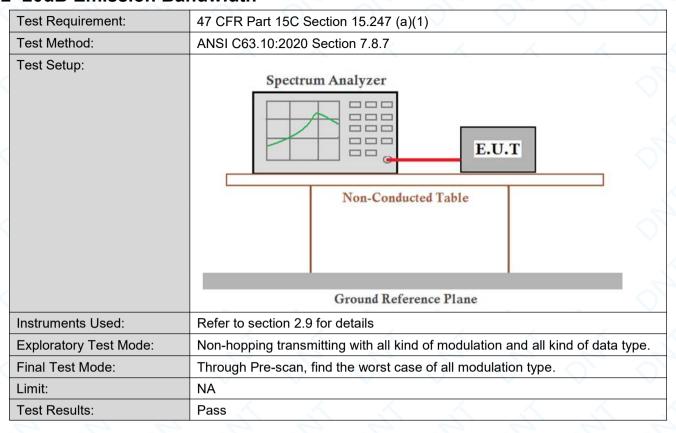
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output 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 2.5dBi.



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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

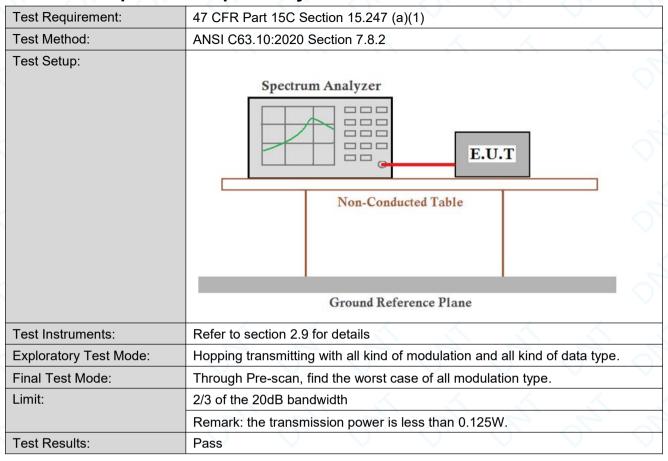
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2020 Section 7.8.5
Test Setup:	Spectrum Analyzer E.U.T
	Non-Conducted Table
	Ground Reference Plane
Test Instruments:	Refer to section 2.9 for details
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type.
Final Test Mode:	Through Pre-scan, find the worst case of all modulation type.
Limit:	(20.97dBm) 125mW
Test Results:	Pass

The detailed test data see: Appendix B



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3.4 Carrier Frequencies Separationy

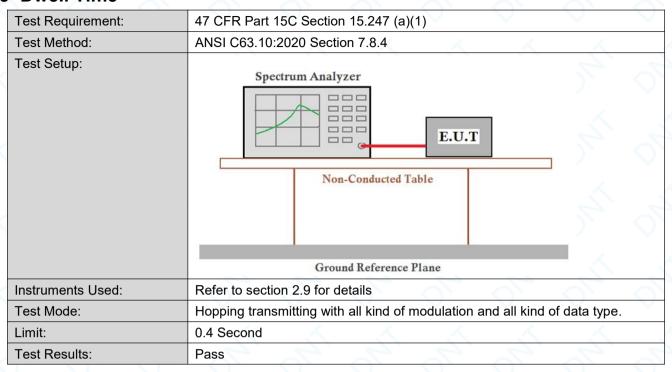


The detailed test data see: Appendix C



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3.5 Dwell Time

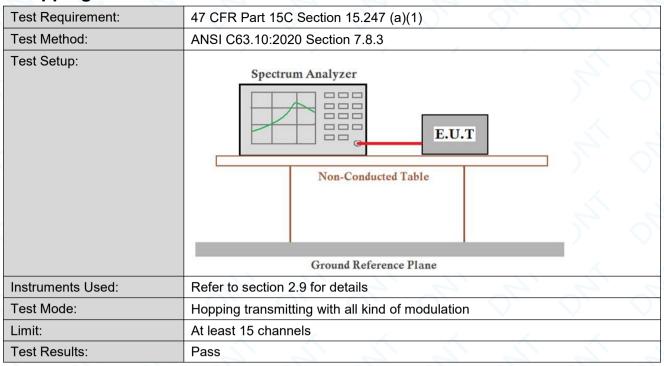


The detailed test data see: Appendix D



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3.6 Hopping Channel Number

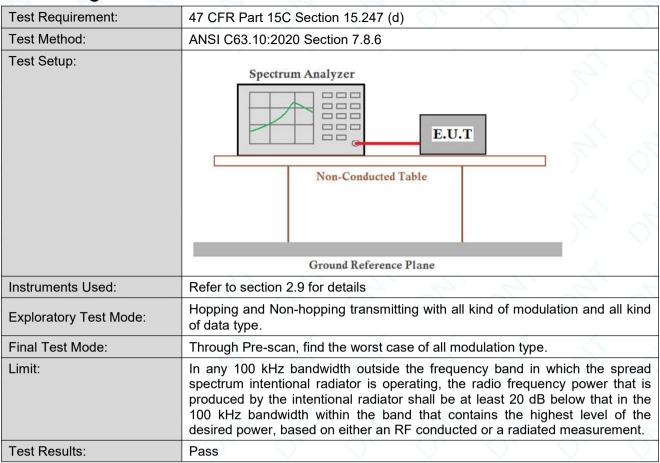


The detailed test data see: Appendix E



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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: 2020 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

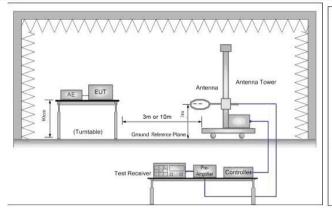
ageurement Distance:	ANSI C63.10: 2020 Section 11.12								
Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)									
Frequency	Detector	RBW	VBW	Remark					
0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak					
0.009MHz-0.090MHz	Average	10kHz	30kHz	Average					
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	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					
<i>X</i>	/ Peak /	1MHz	3MHz	Peak					
Above 1GHz	Peak	1MHz	10Hz (DC≥0.98)	Average					
$\langle \cdot \cdot \rangle$	<u> </u>		(DC<0.98)						
Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)					
0.009MHz-0.490MHz	2400/F(kHz)	- /	-/	300					
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30					
1.705MHz-30MHz	30	<u>-</u>	<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					
	D.009MHz-0.090MHz D.009MHz-0.090MHz D.009MHz-0.110MHz D.110MHz-0.490MHz D.110MHz-0.490MHz D.490MHz -30MHz 30MHz-1GHz Above 1GHz Prequency D.009MHz-0.490MHz D.490MHz-1.705MHz 1.705MHz-30MHz 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz 960MHz-1GHz Above 1GHz	D.009MHz-0.090MHz D.009MHz-0.090MHz D.009MHz-0.110MHz D.090MHz-0.490MHz D.110MHz-0.490MHz D.110MHz-0.490MHz D.490MHz -30MHz D.490MHz -30MHz Average D.490MHz-1GHz D.009MHz-0.490MHz D.009MHz-0.490MHz D.490MHz-1.705MHz D.490MHz-1.705MHz D.490MHz-30MHz D.490MHz-30MHz D.490MHz-1.705MHz D.490MHz D.490MHz-1.705MHz D.490MHz	D.009MHz-0.090MHz	D.009MHz-0.090MHz Peak 10kHz 30kHz D.009MHz-0.090MHz Average 10kHz 30kHz D.090MHz-0.110MHz Quasi-peak 10kHz 30kHz D.110MHz-0.490MHz Peak 10kHz 30kHz D.110MHz-0.490MHz Average 10kHz 30kHz D.490MHz-30MHz Quasi-peak 10kHz 30kHz 30MHz-1GHz Quasi-peak 120kHz 300kHz Peak 1MHz 3MHz Peak 1MHz 10Hz (DC≥0.98) ≥1/T (DC<>0.98) ≥1/T (DC<<0.98)					



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Test Setup:



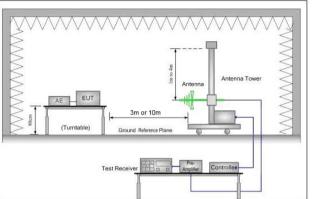


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

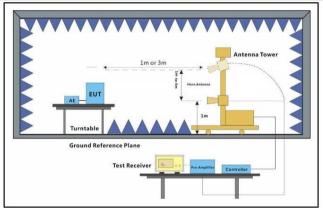


Figure 3. Above 1 GHz

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

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Ď	Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	 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 ≥ 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.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge+Transmitting mode.
Final Test Mode:	Pretest the EUT at Transmitting mode. Through Pre-scan, find the DH5 of data type is the worst case of All modulation type.
Instruments Used:	Refer to section 2.9 for details
Test Results:	Pass



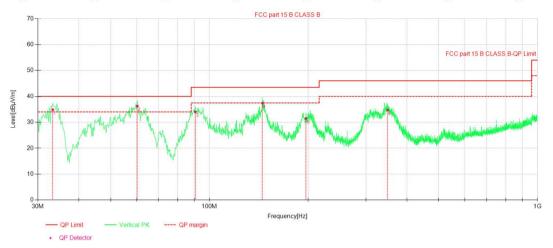
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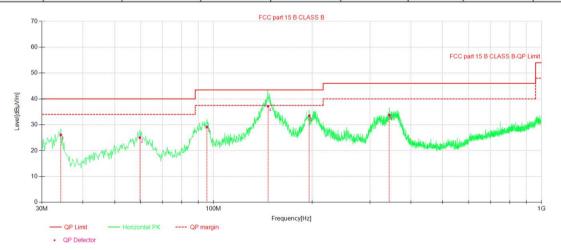
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Test data

For 30-1000MHz



NO	Freq. Factor[dB]		QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	33.29866	-9.53	34.90	40.00	5.10	100	0	Vertical	PASS
2	60.27005	-8.79	36.27	40.00	3.73	100	17	Vertical	PASS
3	90.54010	-13.82	34.06	43.50	9.44	100	192	Vertical	PASS
4	145.0650	-8.17	37.40	43.50	6.10	100	352	Vertical	PASS
5	196.8733	-11.02	31.50	43.50	12.00	100	359	Vertical	PASS
6	349.1938	-5.83	34.75	46.00	11.25	200	335	Vertical	PASS



NO	Freq. [MHz]	Factor[dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	34.26885	-9.39	26.10	40.00	13.90	200	319	Horizontal	PASS
2	59.68793	-8.73	25.05	40.00	14.95	100	350	Horizontal	PASS
3	95.58511	-13.28	29.14	43.50	14.36	200	316	Horizontal	PASS
4	146.7411	-8.08	37.15	43.50	6.35	200	189.8 Horizontal		PASS
5	195.9031	-10.99	33.48	43.50	10.02	200	254	Horizontal	PASS
6	343.7607	-5.89	33.78	46.00	12.22	100	219	Horizontal	PASS

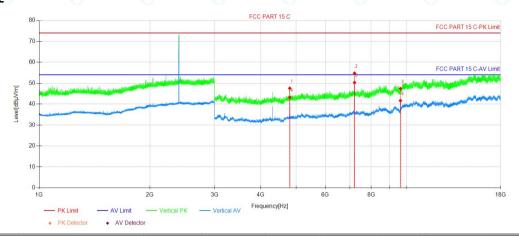


Report No.: DNT2408260275R1196-02580

Date: Sep 04, 2024

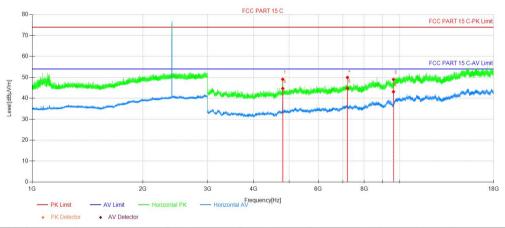
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For above 1GHz 3DH5 2402MHz



NO.	Freq.		Factor	Level	Limit	Margin	Height	Angle			
	[MHz]	Reading [dBµV]	[dB/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Detector	Polarity	Verdict
1	4804.590	52.16	-4.61	47.55	74.00	26.45	150	225	PK	Vertical	PASS
2	7206.210	56.49	-1.76	54.73	74.00	19.27	150	181	PK	Vertical	PASS
3	9608.580	46.50	0.88	47.38	74.00	26.62	150	192	PK	Vertical	PASS
4	4804.590	47.82	-4.61	43.21	54.00	10.79	150	235	AV	Vertical	PASS
5	7206.960	52.03	-1.76	50.27	54.00	3.73	150	192	AV	Vertical	PASS
6	9608.580	40.77	0.88	41.65	54.00	12.35	150	161	AV	Vertical	PASS

Horizontal:



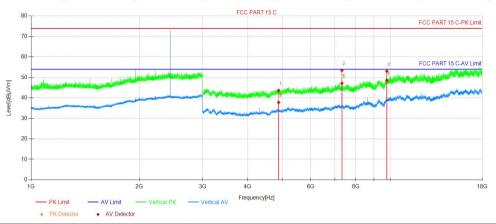
	Freq.		Factor	Level	Limit	Margin	Height	Angle			
NO.	[MHz]	Reading [dBμV]	[dB/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Detector	Polarity	Verdict
1	4803.840	53.68	-4.61	49.07	74.00	24.93	150	44	PK	Horizontal	PASS
2	7206.210	51.69	-1.76	49.93	74.00	24.07	150	141	PK	Horizontal	PASS
3	9608.580	48.13	0.88	49.01	74.00	24.99	150	182	PK	Horizontal	PASS
4	4804.590	49.29	-4.61	44.68	54.00	9.32	150	44	AV	Horizontal	PASS
5	7206.960	46.50	-1.76	44.74	54.00	9.26	150	141	AV	Horizontal	PASS
6	9608.580	42.27	0.88	43.15	54.00	10.85	150	205	AV	Horizontal	PASS



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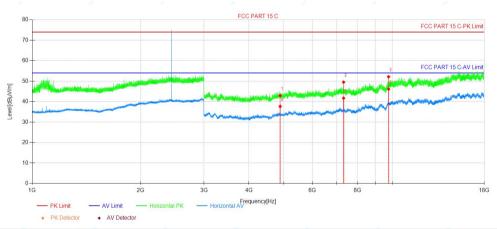
3DH5 2441MHz

Vertical:



	Freq.		Factor	Level	Limit	Margin	Height	Angle	8		
NO.	[MHz]	Reading [dBµV]	[dB/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Detector	Polarity	Verdict
1	4882.594	48.31	-4.72	43.59	74.00	30.41	150	239	PK	Vertical	PASS
2	7323.216	54.95	-1.49	53.46	74.00	20.54	150	175	PK	Vertical	PASS
3	9763.838	51.43	1.64	53.07	74.00	20.93	150	208	PK	Vertical	PASS
4	4882.594	42.52	-4.72	37.80	54.00	16.20	150	109	AV	Vertical	PASS
5	7323.966	48.65	-1.49	47.16	54.00	6.84	150	185	AV	Vertical	PASS
6	9764.588	46.96	1.64	48.60	54.00	5.40	150	208	AV	Vertical	PASS

Horizontal:



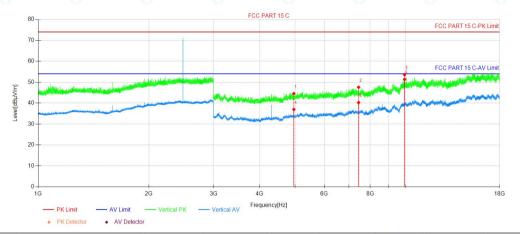
	Freq.		Factor	Level	Limit	Margin	Height	Angle			
NO.	[MHz]	Reading [dBµV]	[dB/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Detector	Polarity	Verdict
1	4882.594	47.65	-4.72	42.93	74.00	31.07	150	221	PK	Horizontal	PASS
2	7323.216	51.01	-1.49	49.52	74.00	24.48	150	145	PK	Horizontal	PASS
3	9763.838	50.51	1.64	52.15	74.00	21.85	150	273	PK	Horizontal	PASS
4	4882.594	42.38	-4.72	37.66	54.00	16.34	150	221	AV	Horizontal	PASS
5	7323.966	43.17	-1.49	41.68	54.00	12.32	150	145	AV	Horizontal	PASS
6	9764.588	44.49	1.64	46.13	54.00	7.87	150	273	AV	Horizontal	PASS



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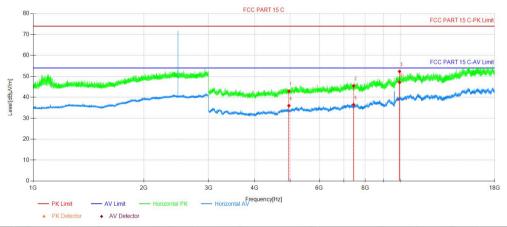
3DH5 2480MHz

Vertical:



NO	Freq.	ndi	Factor	Level	Limit	Margin	Height	Angle			
NO.	[MHz]	Reading [dBµV]	[dB/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Detector	Polarity	Verdict
1	4960.598	49.38	-4.86	44.52	74.00	29.48	150	214	PK	Vertical	PASS
2	7440.222	48.90	-1.34	47.56	74.00	26.44	150	179	PK	Vertical	PASS
3	9920.596	51.32	2.27	53.59	74.00	20.41	150	179	PK	Vertical	PASS
4	4960.598	41.83	-4.86	36.97	54.00	17.03	150	246	AV	Vertical	PASS
5	7440.222	41.59	-1.34	40.25	54.00	13.75	150	179	AV	Vertical	PASS
6	9920.596	49.04	2.27	51.31	54.00	2.69	150	179	AV	Vertical	PASS

Horizontal:



	Freq.		Factor	Level	Limit	Margin	Height	Angle			
NO.	[MHz]	Reading [dBµV]	[dB/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Detector	Polarity	Verdict
1	4960.598	47.76	-4 .86	42.90	74.00	31.10	150	220	PK	Horizontal	PASS
2	7440.222	46.82	-1.34	45.48	74.00	28.52	150	209	PK	Horizontal	PASS
3	9919.846	50.08	2.26	52.34	74.00	21.66	150	87	PK	Horizontal	PASS
4	4960.598	40.86	-4.86	36.00	54.00	18.00	150	240	AV	Horizontal	PASS
5	7440.222	37.82	-1.34	36.48	54.00	17.52	150	140	AV	Horizontal	PASS
6	9920.596	44.85	2.27	47.12	54.00	6.88	150	107	AV	Horizontal	PASS



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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.)

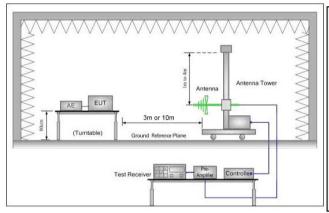
- 2. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
- 3. The amplitude of 18GHz to 25GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be report.
- 4. All 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 15	5.209 and 15.205						
Test Method:	ANSI C63.10: 2020 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 2012 40112	54.0	Average Value					
	Above 1GHz	74.0	Peak Value					
Test Setup:								



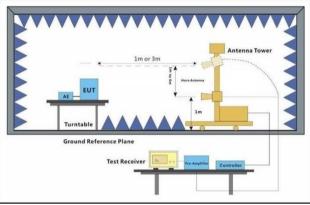


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

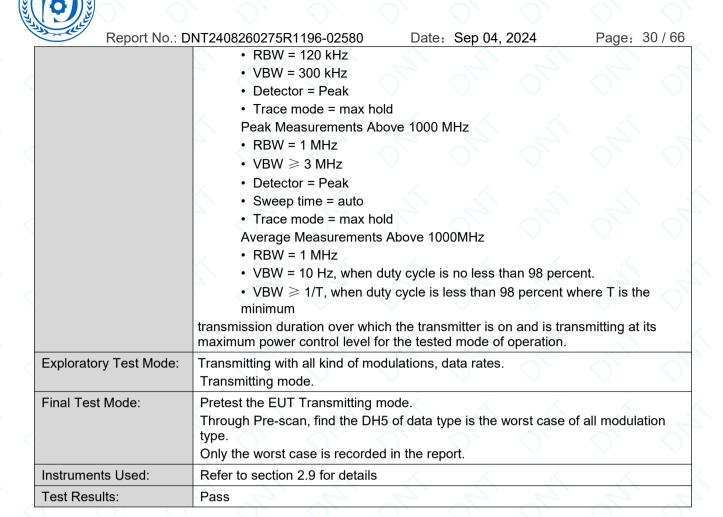
Test Procedure:

- 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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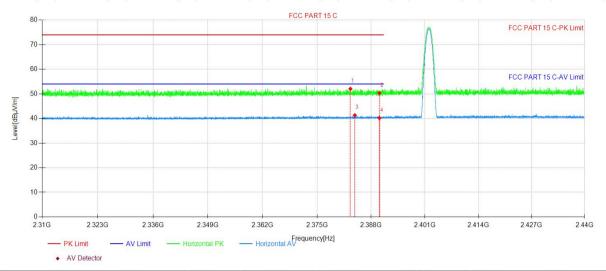


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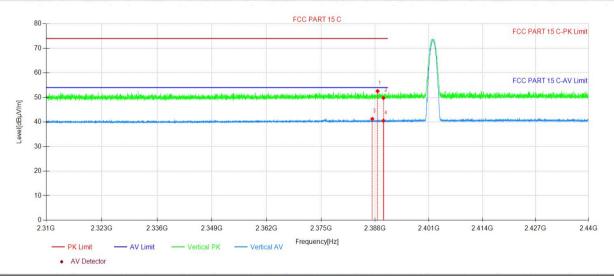
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3DH5 2402MHz



	Freq.		Factor	Level	Limit	Margin	Height	Angle			
NO.	[MHz]	Reading [dBµV]	[dB/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Detector	Polarity	Verdict
1	2388.605	53.36	-0.80	52.56	74.00	21.44	150	80	PK	Vertical	PASS
2	2390.010	50.56	-0.80	49.76	74.00	24.24	150	304	PK	Vertical	PASS
3	2387.318	42.05	-0.80	41.25	54.00	12.75	150	96	AV	Vertical	PASS
4	2390.010	41.28	-0.80	40.48	54.00	13.52	150	96	AV	Vertical	PASS

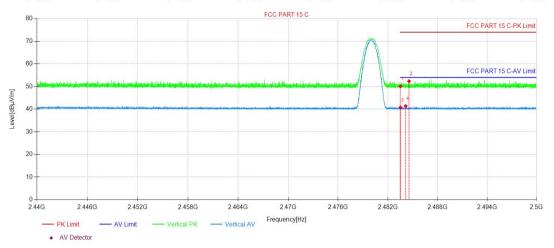


	Freq.		Factor	Level	Limit	Margin	Height	Angle			
NO.	[MHz]	Reading [dBµV]	[dB/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Detector	Polarity	Verdict
1	2383.015	52.89	-0.83	52.06	74.00	21.94	150	272	PK	Horizontal	PASS
2	2390.01	51.15	-0.80	50.35	74.00	23.65	150	9	PK	Horizontal	PASS
3	2384.081	42.12	-0.82	41.30	54.00	12.70	150	298	AV	Horizontal	PASS
4	2390.01	40.99	-0.80	40.19	54.00	13.81	150	232	AV	Horizontal	PASS

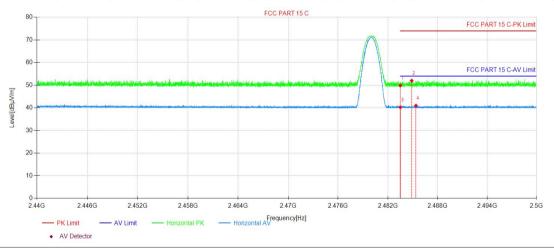


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3DH5 2480MHz



NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Polarity	Verdict
1	2483.510	50.40	-0.29	50.11	74.00	23.89	150	342	PK	Vertical	PASS
2	2484.554	52.61	-0.28	52.33	74.00	21.67	150	179	PK	Vertical	PASS
3	2483.510	41.02	-0.29	40.73	54.00	13.27	150	87	AV	Vertical	PASS
4	2484.152	41.64	-0.28	41.36	54.00	12.64	150	78	AV	Vertical	PASS



	Freq.		Factor	Level	Limit	Margin	Height	Angle			
NO.	[MHz]	Reading [dBμV]	[dB/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Detector	Polarity	Verdict
1	2483.504	50.17	-0.29	49.88	74.00	24.12	150	29	PK	Horizontal	PASS
2	2484.878	52.26	-0.27	51.99	74.00	22.01	150	85	PK	Horizontal	PASS
3	2483.504	40.52	-0.29	40.23	54.00	13.77	150	221	AV	Horizontal	PASS
4	2485.388	41.23	-0.27	40.96	54.00	13.04	150	121	AV	Horizontal	PASS

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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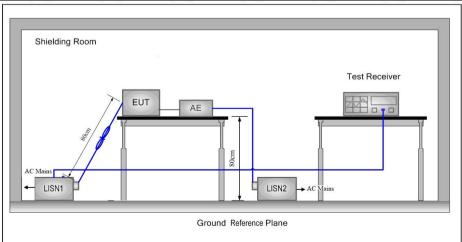


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3.11 AC Power Line Conducted Emissions

0.5 00000000000000000000000000000000000	Limit (o Quasi-peak 66 to 56* 56	Average					
0.5 -5	Quasi-peak 66 to 56*	Average					
0.5	Quasi-peak 66 to 56*	Average					
0.5	66 to 56*						
-5							
	FG	56 to 46*					
0	90	46					
	60	50					
* Decreases with the logarithm of the frequency.							
was connected to stabilization Network The power cables in 2, which was became way as the et outlet strip was provided the rating top EUT was placed plane. And first horizontal ground reference plane and reference plane in EUSN 1 was and bonded to top of the ground closest points of the associated equiped the maximum of the points of the ground and the maximum of the points of the ground associated equiped the maximum of the power closest points of the ground associated equiped the maximum of the power closest points of the ground associated equiped the maximum of the power cables.	o AC power source throok) which provides a sof all other units of the conded to the ground result in the LISN 1 for the unit being so used to connect multing of the LISN was not expected upon a non-metallist for floor-standing arranged reference plane, the vertical ground reference was bonded to the howas placed 0.8 m from a ground reference plane. This is the LISN 1 and the EU oment was at least 0.8 mission, the relative place cables must be children.	50Ω/50μH + 5Ω linear e EUT were connected to eference and measured. A iple power cables to a exceeded. It is table 0.8m above the gement, the EUT was derence plane. The rear eference plane. The orizontal ground the boundary of the ene for LISNs distance was T. All other units of me from the LISN 2. positions of					
ווו ווווווווווווווווווווווווווווווווו	nall be 0.4 m from d reference plan ne. The LISN 1 vot and bonded to op of the ground closest points of associated equiped the maximum of all of the interf	vas performed with a vertical ground refinal be 0.4 m from the vertical ground refinal be 0.4 m from the vertical ground redict of reference plane was bonded to the hone. The LISN 1 was placed 0.8 m from st and bonded to a ground reference place op of the ground reference plane. This closest points of the LISN 1 and the EU associated equipment was at least 0.8 d the maximum emission, the relative part all of the interface cables must be check 2013 on conducted measurement.					





Exploratory Test Mode:

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

Charge + Transmitting mode.

Dongguan DN Testing Co., Ltd.

Parado Pa

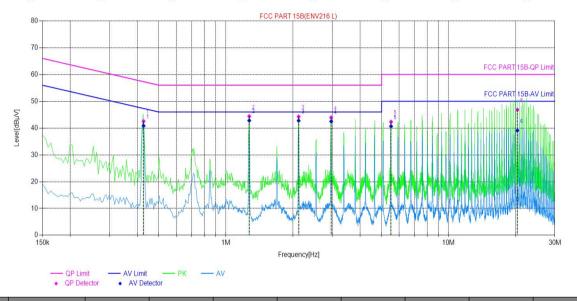
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Final Test Mode:	Through Pre-scan, find the the worst case.
Instruments Used:	Refer to section 2.9 for details
Test Results:	PASS

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:



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	0.4266	9.80	42.55	57.32	14.77	40.85	47.32	6.47	PASS
2	1.2723	9.73	44.39	56.00	11.61	42.81	46.00	3.19	PASS
3	2.1202	9.74	44.27	56.00	11.73	42.77	46.00	3.23	PASS
4	2.9689	9.74	43.96	56.00	12.04	42.49	46.00	3.51	PASS
5	5.5140	9.81	42.33	60.00	17.67	40.67	50.00	9.33	PASS
6	20.3574	10.12	46.84	60.00	13.16	39.09	50.00	10.91	PASS

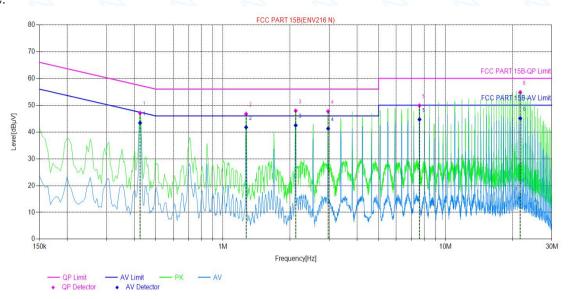


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Neutral Line:



NO.	Freq. [MHz]	Factor [dB]	QP Value [dΒμV]	QP Limit [dΒμV]	QP Margin [dB]	AV Value [dΒμV]	AV Limit [dΒμV]	AV Margin [dB]	Verdict
1	0.4245	9.83	47.09	57.36	10.27	43.39	47.36	3.97	PASS
2	1.2705	9.71	46.75	56.00	9.25	41.76	46.00	4.24	PASS
3	2.121	9.79	47.93	56.00	8.07	42.48	46.00	3.52	PASS
4	2.967	9.87	47.73	56.00	8.27	41.27	46.00	4.73	PASS
5	7.629	9.95	49.90	60.00	10.10	44.69	50.00	5.31	PASS
6	21.624	10.09	54.85	60.00	5.15	45.11	50.00	4.89	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

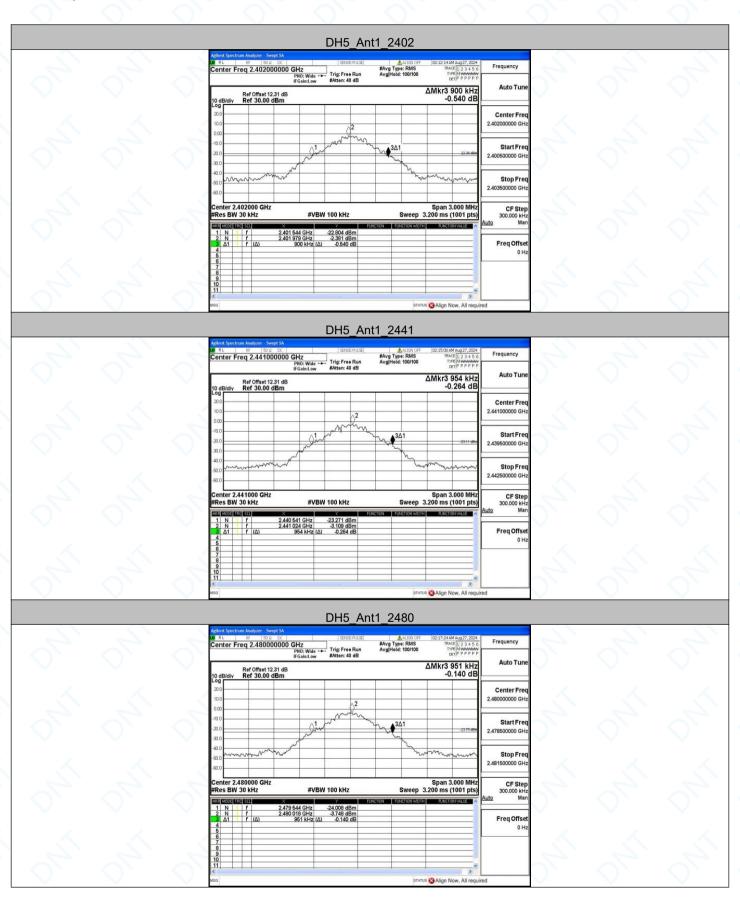
Test Result

Test Mode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2402	0.900	2401.544	2402.444	/	
DH5	Ant1	2441	0.954	2440.541	2441.495		
		2480	0.951	2479.544	2480.495		
	2DH5 Ant1	2402	1.350	2401.334	2402.684)
2DH5		2441	1.362	2440.328	2441.690		
		2480	1.323	2479.343	2480.666	/	/
		2402	1.323	2401.352	2402.675		
3DH5	Ant1	2441	1.314	2440.352	2441.666		
		2480	1.311	2479.352	2480.663	1_1	



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Test Graphs





Report No.: DNT2408260275R1196-02580 Page: 38 / 66 Date: Sep 04, 2024 2DH5_Ant1_2402 #Avg Type: RMS AvgiHold: 100/100 Auto Tur Ref Offset 12.31 dB Ref 30.00 dBm Center Fre Start Free enter 2.402000 GHz les BW 30 kHz Freq Offs 2DH5 Ant1 2441 RL RF 50 Q DC | enter Freq 2.441000000 GHz #Avg Type: RMS Avg|Hold: 100/100 Center Fre 2.441000000 GH 2DH5_Ant1_2480 Center Fre Stop Fre 2.481500000 GH CF Stej 300.000 kH Freq Offse

3DH5_Ant1_2402

Report No.: DNT2408260275R1196-02580 Page: 39 / 66 Date: Sep 04, 2024 ΔMkr3 1.323 MHz 0.093 dB Center Fre Start Fre Stop Free 2.403500000 GH: CF Step 300.000 kH Span 3.000 MHz Sweep 3.200 ms (1001 pts) 2.401 352 GHz 2.402 021 GHz 1.323 MHz (Δ) Freq Offse 3DH5_Ant1_2441 #Avg Type: RMS Avg|Hold: 100/100 Auto Tun Ref Offset 12.31 dB Ref 30.00 dBm Center Fre 2.441000000 GF Start Free Stop Fre enter 2.441000 GHz Res BW 30 kHz Span 3.000 MHz Sweep 3.200 ms (1001 pts) #VBW 100 kHz Freq Offse STATUS Align Now, All re 3DH5_Ant1_2480 enter Freq 2.480000000 GHz #Avg Type: RMS Avg|Hold: 100/100 Wide → Trig: Free Run #Atten: 40 dB ΔMkr3 1.311 MHz 0.232 dB Center Fre Start Fre enter 2.480000 GHz Res BW 30 kHz



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Appendix B: Maximum conducted output power

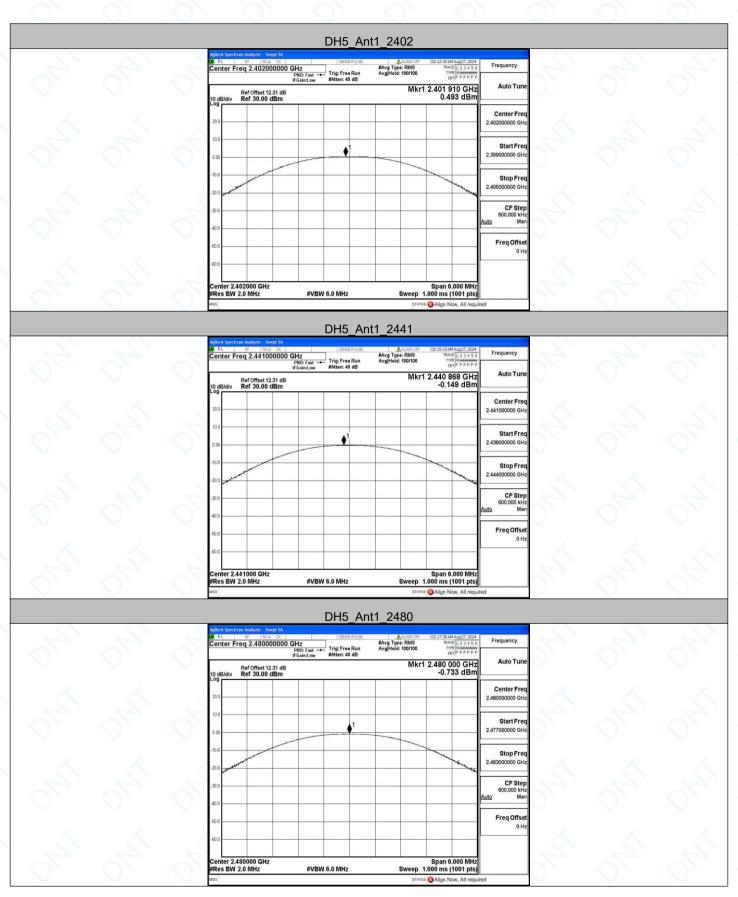
Test Result

Test Mode	Antenna	Freq(MHz)	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
		2402	0.49	≤20.97	PASS
DH5	Ant1	2441	-0.15	≤20.97	PASS
		2480	-0.73	≤20.97	PASS
	Ant1	2402	3.06	≤20.97	PASS
2DH5		2441	2.19	≤20.97	PASS
6		2480	1.50	≤20.97	PASS
	Ant1	2402	3.64	≤20.97	PASS
3DH5		2441	2.93	≤20.97	PASS
<i>/</i>		2480	2.20	≤20.97	PASS



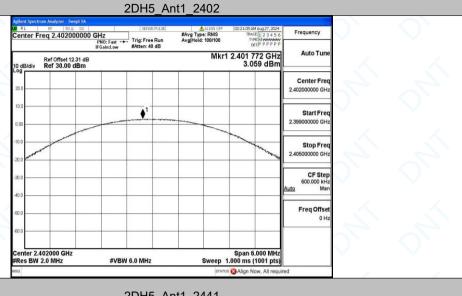
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Test Graphs

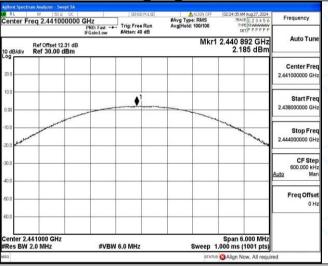




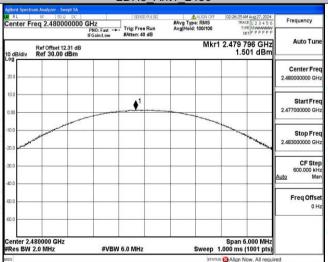
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2DH5 Ant1 2441



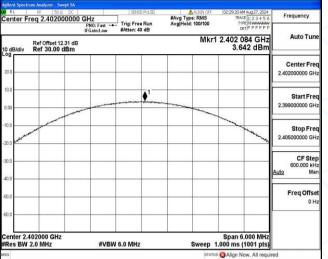
2DH5_Ant1_2480



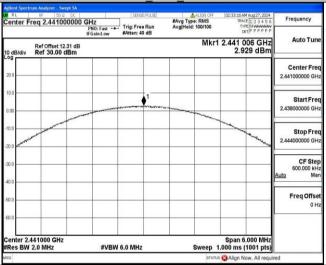
3DH5_Ant1_2402

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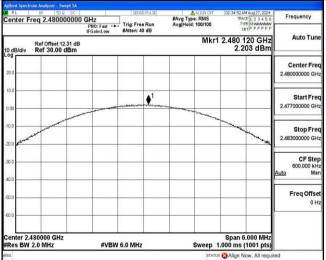
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3DH5_Ant1_2441



3DH5_Ant1_2480





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Appendix C: Carrier frequency separation

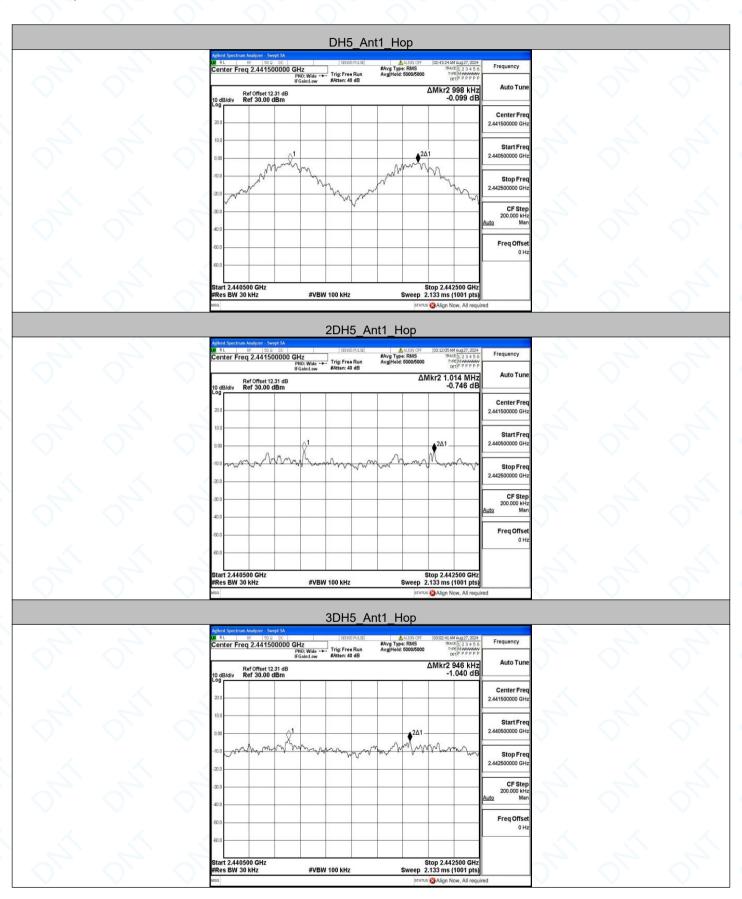
Test Result

Test Mode Antenna		Freq(MHz)	Freq(MHz) Result[MHz]		Verdict
DH5	Ant1	Нор	0.998	≥0.954	PASS
2DH5	Ant1	Нор	1.014	≥0.908	PASS
3DH5	Ant1	Нор	0.946	≥0.882	PASS



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Test Graphs





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Appendix D: Dwell Time

Test Result

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Test Mode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.395	320	0.126	≤0.4	PASS
DH3	Ant1	Нор	1.650	160	0.264	≤0.4	PASS
DH5	Ant1	Нор	2.899	106.67	0.309	≤0.4	PASS
2DH1	Ant1	Нор	0.404	320	0.129	≤0.4	PASS
2DH3	Ant1	Нор	1.657	160	0.265	≤0.4	PASS
2DH5	Ant1	Нор	2.904	106.67	0.31	≤0.4	PASS
3DH1	Ant1	Нор	0.405	320	0.13	≤0.4	PASS
3DH3	Ant1	Нор	1.656	160	0.265	≤0.4	PASS
3DH5	Ant1	Нор	2.907	106.67	0.31	≤0.4	PASS



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