

RF TEST REPORT

For

Dongguan DaXian Lighting Technology CO., LTD
Product Name: Led Floor Light
Test Model(s).: DX24022

FCC ID : 2A82I-DX24022

Report Reference No.

Applicant's Name : Dongguan DaXian Lighting Technology CO., LTD

Address No. 72, Tai'an, Liyuan Road, Zhangmutou town, Dongguan City,

Guangdong Province, China

DACE241112015RL001

Testing Laboratory: Shenzhen DACE Testing Technology Co., Ltd.

102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park,

Address : Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen,

Guangdong, China

Test Specification Standard : 47 CFR Part 15.247

Date of Receipt : November 12, 2024

Date of Test : November 12, 2024 to November 19, 2024

Data of Issue : November 20, 2024

Result : Pass

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Apply for company information

Applicant's Name	:	ongguan DaXian Lighting Technology CO., LTD				
Address	:	lo. 72, Tai'an, Liyuan Road, Zhangmutou town, Dongguan City, Guangdong Province, China				
Product Name	:	Led Floor Light				
Test Model(s)	i	DX24022				
Series Model(s)		DX24022-1, DX2409, DX23012, DX-24021, DX-24021-1, DX-24024, DX-24024-1, DX24026, DX24027, DX24028				
Test Specification Standard(s)	:	47 CFR Part 15.247				

NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

Compiled by:

Keren Huang

Stone Fin

For Chen

Keren Huang / Test Engineer

November 20, 2024

Supervised by:

Tom Chen

Tom Chen / Manager

November 20, 2024

November 20, 2024

November 20, 2024

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Revision History Of Report

Report No.: DACE241112015RL001

Description REPORT No. Version **Issue Date** V1.0 Original DACE241112015RL001 November 20, 2024

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V1.0

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1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

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1.2 Summary of Test Result

Item	Method	Requirement	Result
Antenna requirement	1	47 CFR 15.203	Pass
Conducted Emission at AC power line	ANSI C63.10-2013 section 6.2	47 CFR 15.207(a)	Pass
6dB Bandwidth	ANSI C63.10-2013, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(2)	Pass
Maximum Conducted Output Power	ANSI C63.10-2013, section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(b)(3)	Pass
Power Spectral Density	ANSI C63.10-2013, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(e)	Pass
Emissions in non- restricted frequency bands	ANSI C63.10-2013 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Band edge emissions (Radiated)	ANSI C63.10-2013 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (below 1GHz)	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass
Emissions in frequency bands (above 1GHz)	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d), 15.209, 15.205	Pass

Note: 1.N/A -this device(EUT) is not applicable to this testing item

2. RF-conducted test results including cable loss.

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GENERAL INFORMATION

2.1 Client Information

Applicant's Name Dongguan DaXian Lighting Technology CO., LTD

Address No. 72, Tai'an, Liyuan Road, Zhangmutou town, Dongguan City, Guangdong

Province, China

Dongguan DaXian Lighting Technology CO., LTD Manufacturer

Address No. 72, Tai'an, Liyuan Road, Zhangmutou town, Dongguan City, Guangdong

Province, China

2.2 Description of Device (EUT)*

Product Name:	Led Floor Light
Model/Type reference:	DX24022
Series Model:	DX24022-1, DX2409, DX23012, DX-24021, DX-24021-1, DX-24024, DX-24024-1, DX24026, DX24027, DX24028
Model difference:	There are many models of products, mainly customized according to the different requirements of different customers. The differences in product appearance are the height of the lamp and the appearance color. The internal electrical structure and PCB of the product have not changed, and these differences do not affect the RF and EMC performance of the product.
Trade Mark:	N/A
Product Description:	Led Floor Light
Power Supply:	DC12.0V 1.5A from adapter
Operation Frequency:	2402MHz to 2480MHz
Number of Channels:	40
Modulation Type:	GFSK
Antenna Type:	PCB ANT
Antenna Gain:	0dBi

Operation Frequency each of channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
3	2406MHz	13	2426MHz	23	2446MHz	33	2466MHz
4	2408MHz	14	2428MHz	24	2448MHz	34	2468MHz
5	2410MHz	15	2430MHz	25	2450MHz	35	2470MHz
6	2412MHz	16	2432MHz	26	2452MHz	36	2472MHz
7	2414MHz	17	2434MHz	27	2454MHz	37	2474MHz
8	2416MHz	18	2436MHz	28	2456MHz	38	2476MHz
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

Note:In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the

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middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

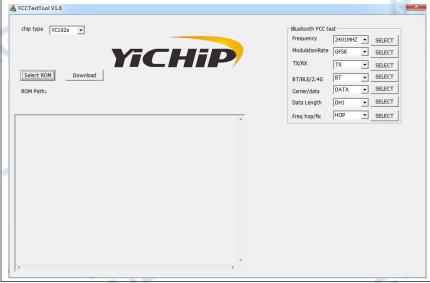
Test channel	Frequency (MHz)
rest channel	BLE
Lowest channel	2402MHz
Middle channel	2440MHz
Highest channel	2480MHz

2.3 Description of Test Modes

V1.0

No	Title	Description
TM1	TX mode	Keep the EUT connect to DC power line and works in continuously transmitting mode with GFSK modulation at lowest, middle and highest channel.

Test software:



2.4 Description of Support Units

Equipment	Manufacturer	Model No:	Note
ADAPTER	Dongguan GuanQing Electronic Co.,Ltd.	AED18J-121500VWSW0	Provide by client

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2.5 Equipments Used During The Test

Conducted Emission at AC power line							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date		
Pulse Limiter	SCHWARZ BECK	VTSD 9561-F Pulse limiter 10dB	561-G071	2023-12-12	2024-12-11		
50ΩCoaxial Switch	Anritsu	MP59B	M20531	1	1		
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	1164.6607K03 -102109-MH	2024-06-12	2025-06-11		
L.I.S.N	R&S	ESH3-Z5	831.5518.52	2023-12-12	2024-12-11		
L.I.S.N	SCHWARZ BECK	NSLK 8126	05055	2024-06-14	2025-06-13		
Pulse Limiter	CYBERTEK	EM5010A	1	2024-09-27	2025-09-26		
EMI test software	EZ -EMC	EZ	V1.1.42	1	1		

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6dB Bandwidth

Maximum Conducted Output Power

Power Spectral Density

Emissions in non-restricted frequency bands

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Test Software	Tachoy Information	RTS-01	V1.0.0	,	1
Power divider	MIDEWEST	PWD-2533	SMA-79	2023-05-11	2026-05-10
RF Sensor Unit	Tachoy Information	TR1029-2	000001	1	E'
Signal Generator	Keysight	N5181A	MY48180415	2023-12-11	2024-12-10
Signal Generator	Keysight	N5182A	MY50143455	2023-12-12	2024-12-11
Spectrum Analyzer	Keysight	N9020A	MY53420323	2023-12-12	2024-12-11

Band edge emissions (Radiated)

Emissions in frequency bands (below 1GHz) Emissions in frequency bands (above 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test software	Farad	EZ -EMC	V1.1.42	/	1
Positioning Controller	1	MF-7802	4	1	/
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2022-04-05	2025-04-04
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2023-04-05	2025-04-04
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2024-06-14	2026-06-13
Cable(LF)#2	Schwarzbeck	1	1	2024-02-19	2025-02-18
Cable(LF)#1	Schwarzbeck	XC1	1	2024-02-19	2025-02-18
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2024-03-20	2025-03-19
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	1	2024-03-20	2025-03-19
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2024-06-12	2025-06-11
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2024-06-12	2025-06-11

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Wideband radio communication tester	R&S CMW500		113410	2024-06-12	2025-06-11
Spectrum Analyzer	R&S	FSP30	1321.3008K40- 101729-jR	2024-06-12	2025-06-11
Test Receiver	R&S	ESCI 3	1166.5950K03- 101431-Jq	2024-06-13	2025-06-12
Horn Antenna	Sunol Sciences	DRH-118	A091114	2023-05-13	2025-05-12
Broadband Antenna	Sunol Sciences	JB6 Antenna	A090414	2024-09-28	2026-09-27

2.6 Statement Of The Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Disturbance (0.15~30MHz)	±3.41dB
Occupied Bandwidth	±3.63%
RF conducted power	±0.733dB
RF power density	±0.234%
Conducted Spurious emissions	±1.98dB
Radiated Emission (Above 1GHz)	±5.46dB
Radiated Emission (Below 1GHz)	±5.79dB

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

2.7 Authorizations

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.
Address:	102, Building H1 & 1/F, Building H, Hongfa Science and Technology Park, Tangtou, Shiyan, Bao'An District, Shenzhen, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252

Identification of the Responsible Testing Location

	· ·
Company Name:	Shenzhen DACE Testing Technology Co., Ltd.
Address:	102, Building H1 & 1/F, Building H, Hongfa Science and Technology Park, Tangtou, Shiyan, Bao'An District, Shenzhen, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252
FCC Registration Number:	0032847402
Designation Number:	CN1342
Test Firm Registration No.:	778666
A2LA Certificate Number:	6270.01

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2.8 Announcement

NE

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.

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- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by DACE and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) We hereby declare that the laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant(information with "*" provided by applicant). the laboratory is not responsible for the accuracy of the information provided by the client. When the information provided by the customer may affect the effectiveness of the results, the responsibility lies with the customer, and the laboratory does not assume any responsibility.

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3 Evaluation Results (Evaluation)

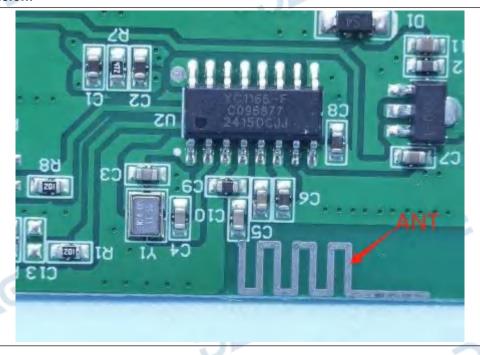
3.1 Antenna requirement

Test Requirement:

Refer to 47 CFR Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section.

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3.1.1 Conclusion:



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4 Radio Spectrum Matter Test Results (RF)

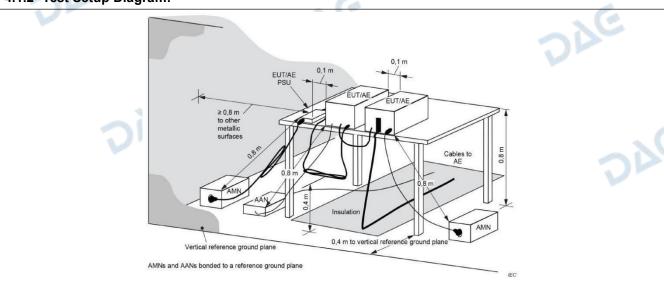
4.1 Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN).									
Test Limit:	Frequency of emission (MHz) Conducted limit (dBµV)									
		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 Method:	ANSI C63.10-2013 section 6.2									
Procedure:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices									

4.1.1 E.U.T. Operation:

Operating Environment:									
Temperature:	23.5 °C		Humidity:	48 %	/	Atmospheric Pressure:	102 kPa		
Pretest mode: TM									
Final test mode:		TM1							

4.1.2 Test Setup Diagram:



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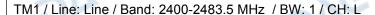
Tel: +86-755-23010613

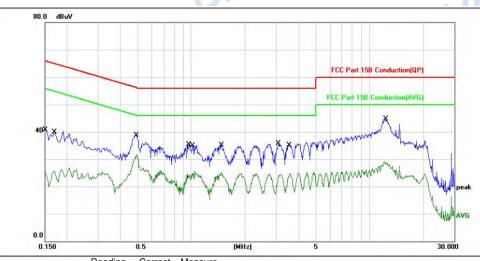
E-mail: service@dace-lab.com

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4.1.3 Test Data:





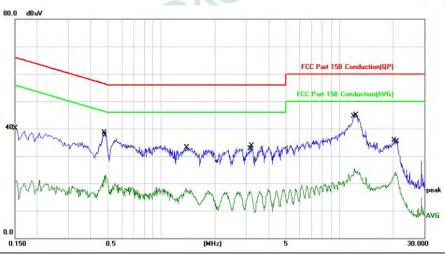
Report No.: DACE241112015RL001

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	30.51	10.13	40.64	65.99	-25.35	QP	
2		0.1700	15.51	10.12	25.63	54.96	-29.33	AVG	
3		0.4900	28.67	10.09	38.76	56.17	-17.41	QP	
4	*	0.4940	21.54	10.09	31.63	46.10	-14.47	AVG	
5		0.9660	25.27	10.11	35.38	56.00	-20.62	QP	
6		1.0339	15.59	10.11	25.70	46.00	-20.30	AVG	
7		1.4780	25.03	10.05	35.08	56.00	-20.92	QP	
8		1.4780	15.22	10.05	25.27	46.00	-20.73	AVG	
9		3.0860	25.60	10.07	35.67	56.00	-20.33	QP	
10		3.5780	14.54	10.11	24.65	46.00	-21.35	AVG	
11		12.1500	18.92	10.38	29.30	50.00	-20.70	AVG	
12		12.3540	34.22	10.39	44.61	60.00	-15.39	QP	

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TM1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: L



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	29.97	10.13	40.10	65.99	-25.89	QP	
2		0.1500	10.69	10.13	20.82	55.99	-35.17	AVG	
3		0.4780	28.32	10.09	38.41	56.37	-17.96	QP	
4		0.4860	12.94	10.09	23.03	46.24	-23.21	AVG	
5		1.3820	23.01	10.06	33.07	56.00	-22.93	QP	
6		1.3820	7.99	10.06	18.05	46.00	-27.95	AVG	
7		3.1420	7.04	10.07	17.11	46.00	-28.89	AVG	
8		3.2180	23.70	10.07	33.77	56.00	-22.23	QP	
9		12.1580	15.18	10.38	25.56	50.00	-24.44	AVG	
10	*	12.4140	34.46	10.39	44.85	60.00	-15.15	QP	
11		20.3340	25.12	10.58	35.70	60.00	-24.30	QP	
12		20.7420	13.41	10.59	24.00	50.00	-26.00	AVG	

NOTE:

- 1.An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3.Mesurement Level = Reading level + Correct Factor, Over=Limit- Mesurement

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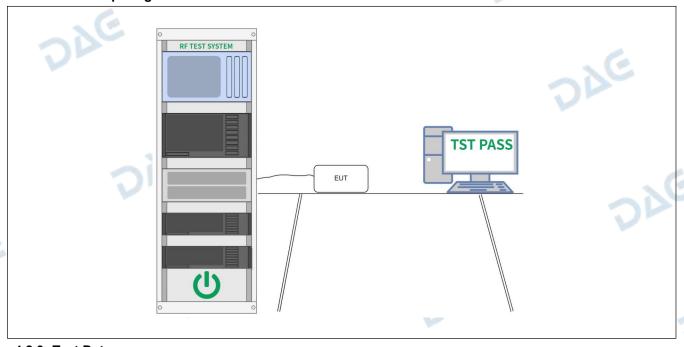
4.2 6dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(2)
Test Limit:	Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method:	ANSI C63.10-2013, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	a) Set RBW = 100 kHz. b) Set the VBW >= [3 × RBW]. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

4.2.1 E.U.T. Operation:

Operating Environment:									
Temperature:	23.5 °C		Humidity:	48 %	Atmospheric Pressure: 10	02 kPa			
Pretest mode:	TM1								
Final test mode: T			V						

4.2.2 Test Setup Diagram:



4.2.3 Test Data:

Please Refer to Appendix for Details.

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4.3 Maximum Conducted Output Power

4.0 Maximum Conac	
Test Requirement:	47 CFR 15.247(b)(3)
Test Limit:	Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method:	ANSI C63.10-2013, section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013, section 11.9.1 Maximum peak conducted output power Note: Per ANSI C63.10-2013, if there are two or more antnnas, the conducted powers at Core 0, Core 1,, Core i were first measured separately, as shown in the section above(this product olny have one antenna). The measured values were then summed in linear power units then converted back to dBm. Per ANSI C63.10-2013 Section 14.4.3.2.3, the directional gain is calculated using the following formula, where GN is the gain of the nth antenna and NANT, the total number of antennas used. For correlated unequal antenna gain Directional gain = 10*log[(10G1/20 + 10G2/20 + + 10GN/20)2 / NANT] dBi For completely uncorrelated unequal antenna gain Directional gain = 10*log[(10G1/10 + 10G2/10 + + 10GN/10)/ NANT] dBi Sample Multiple antennas Calculation: Core 0 + Core 1 +Core i. = MIMO/CDD (i is the number of antennas) (#VALUE! mW + mW) = #VALUE! mW = dBm Sample e.i.r.p. Calculation:
	(#VALUE! mW + mW) = #VALUE! mW = dBm

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4.3.1 E.U.T. Operation:

Operating Environment:									
Temperature:	23.5 °C		Humidity:	48 %	-	Atmospheric Pressure:	102 kPa	- 2/	
Pretest mode:		TM1						C	
Final test mode:		TM1							

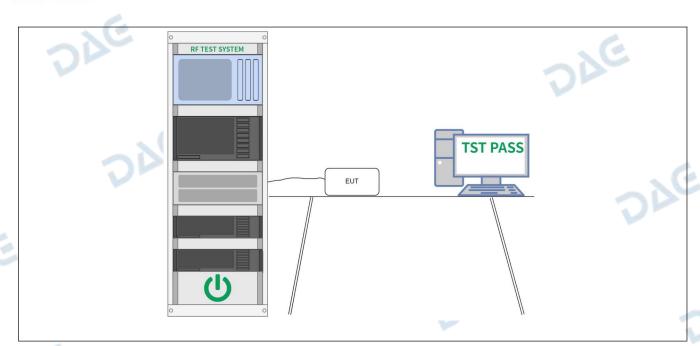
4.3.2 Test Setup Diagram:

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4.3.3 Test Data:

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Please Refer to Appendix for Details.

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4.4 Power Spectral Density

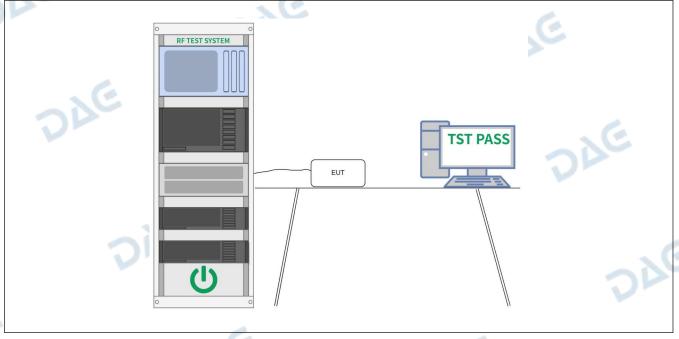
Test Requirement:	47 CFR 15.247(e)
Test Limit:	Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method:	ANSI C63.10-2013, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013, section 11.10, Maximum power spectral density level in the fundamental emission

Report No.: DACE241112015RL001

4.4.1 E.U.T. Operation:

Operating Environment:								
Temperature:	23.5 °C		Humidity:	48 %	Atmospheric Pressure:	102 kPa		
Pretest mode:		TM1	V P					
Final test mode:		TM1						

4.4.2 Test Setup Diagram:



4.4.3 Test Data:

Please Refer to Appendix for Details.

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4.5 Emissions in non-restricted frequency bands

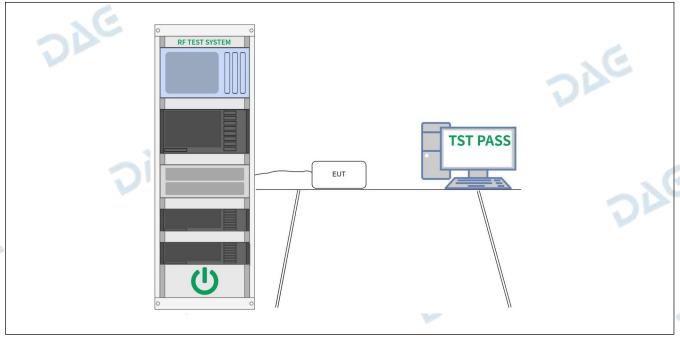
Test Requirement:	47 CFR 15.247(d), 15.209, 15.205
Test Limit:	Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2013 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2013 Section 11.11.1, Section 11.11.2, Section 11.11.3

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4.5.1 E.U.T. Operation:

Operating Environment:								
Temperature: 23.5 °C Humidity: 48 % Atmospheric Pressure: 102 kPa								
Pretest mode: TM1					C			
Final test mode:	TM1	V						

4.5.2 Test Setup Diagram:



4.5.3 Test Data:

Please Refer to Appendix for Details.

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4.6 Band edge emissions (Radiated)

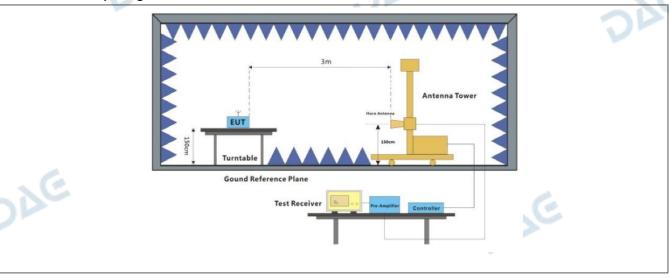
Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`							
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)					
- 10	0.009-0.490	2400/F(kHz)	300					
21	0.490-1.705	24000/F(kHz)	30					
	1.705-30.0	30	30					
	30-88	100 **	3					
	88-216	150 **	3					
	216-960	200 **	3					
	Above 960	500	3					
16	54-72 MHz, 76-88 MHz, 17 these frequency bands is p and 15.241. In the emission table above The emission limits shown employing a CISPR quasi-r	nis section shall not be loc 4-216 MHz or 470-806 M ermitted under other sect e, the tighter limit applies a in the above table are bas beak detector except for the 1000 MHz. Radiated emissi	cated in the frequency bands Hz. However, operation within ions of this part, e.g., §§ 15.231 at the band edges. sed on measurements he frequency bands 9–90 kHz, ion limits in these three bands					
Test Method:	ANSI C63.10-2013 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02							
Procedure:	ANSI C63.10-2013 section	6.10.5.2						

Report No.: DACE241112015RL001

4.6.1 E.U.T. Operation:

Operating Environment:								
Temperature:	23.5 °C		Humidity:	48 %	Atmospheric Pressur	re: 102 kPa		
Pretest mode:		TM1			4			
Final test mode:	- 3	TM1			· (e.			

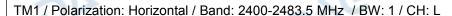
4.6.2 Test Setup Diagram:

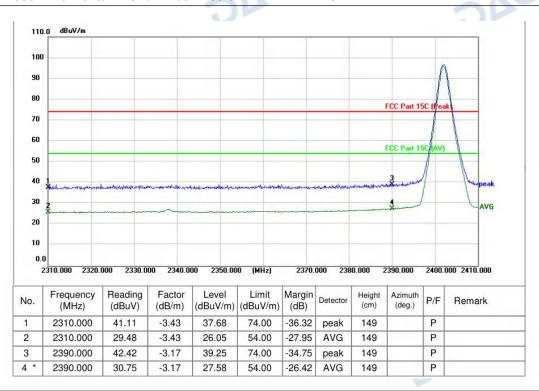


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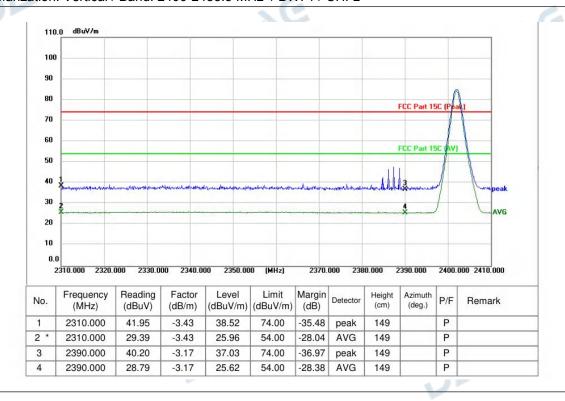
4.6.3 Test Data:





Report No.: DACE241112015RL001

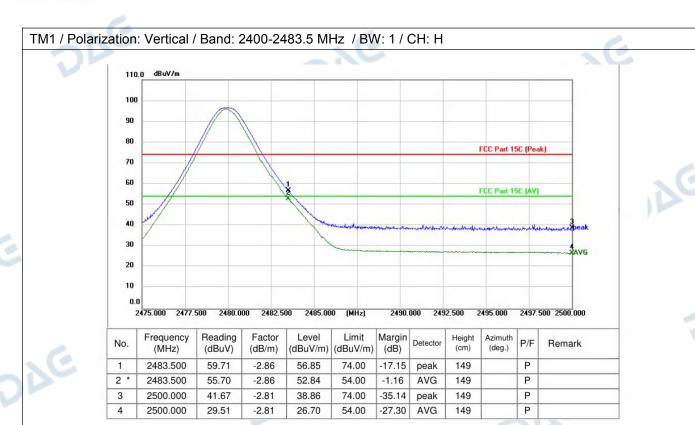
TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L

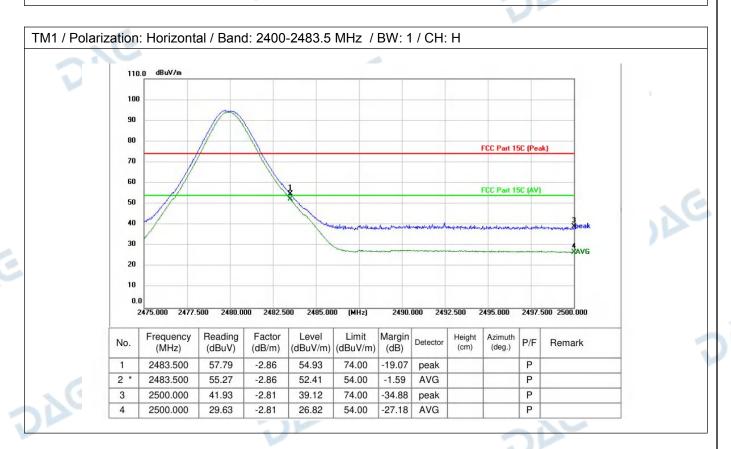


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4.7 Emissions in frequency bands (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`							
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)					
	0.009-0.490	2400/F(kHz)	300					
	0.490-1.705	24000/F(kHz)	30					
	1.705-30.0	30	30					
	30-88	100 **	3					
	88-216	150 **	3					
	216-960	200 **	3					
	Above 960	500	3					
	these frequency bands is p and 15.241. In the emission table above The emission limits shown employing a CISPR quasi-p	ermitted under other sect e, the tighter limit applies in the above table are ba- peak detector except for t 1000 MHz. Radiated emiss	sed on measurements he frequency bands 9–90 kHz, ion limits in these three bands					
Test Method:	ANSI C63.10-2013 section KDB 558074 D01 15.247 M	6.6.4						
Procedure:	above the ground at a 3 or 360 degrees to determine to b. For above 1GHz, the EU above the ground at a 3 medegrees to determine the pc. The EUT was set 3 or 10 which was mounted on the d. The antenna height is valuetermine the maximum value.	10 meter semi-anechoic the position of the highest T was placed on the top eter fully-anechoic chambosition of the highest radiometers away from the intop of a variable-height aried from one meter to follue of the field strength.	of a rotating table 1.5 meters er. The table was rotated 360 ation. terference-receiving antenna, intenna tower. ur meters above the ground to Both horizontal and vertical					
	the antenna was tuned to he below 30MHz, the antenna was turned from 0 degrees f. The test-receiver system Bandwidth with Maximum Hg. If the emission level of the specified, then testing could reported. Otherwise the emitested one by one using pereported in a data sheet. h. Test the EUT in the lowe i. The radiation measurement Transmitting mode, and four j. Repeat above procedures Remark:	ession, the EUT was arran eights from 1 meter to 4 in was tuned to heights 1 m to 360 degrees to find the was set to Peak Detect Fold Mode. The EUT in peak mode was also be stopped and the peak issions that did not have ak, quasi-peak or averagest channel, the middle chants are performed in X, Y and the X axis positioning is until all frequencies means.	ged to its worst case and then meters (for the test frequency of neter) and the rotatable table e maximum reading. Function and Specified and Index of the EUT would be 10dB margin would be remethod as specified and then annel, the Highest channel. Y, Z axis positioning for which it is the worst case.					
	1) For emission below 1GF channel. Only the worst case		d the worst case is the lowest rt.					

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2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor "C Preamplifier Factor

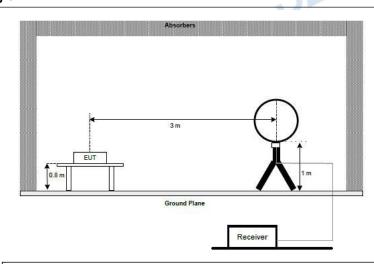
Report No.: DACE241112015RL001

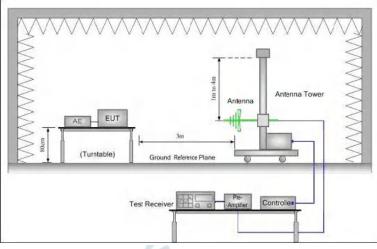
3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.7.1 E.U.T. Operation:

Operating Environment:								
Temperature:	23.5 °C		Humidity:	48 %	Atmospheric Pressure:	102 kPa		
Pretest mode:		TM1	C					
Final test mode:	1	TM1			1 C			

4.7.2 Test Setup Diagram:





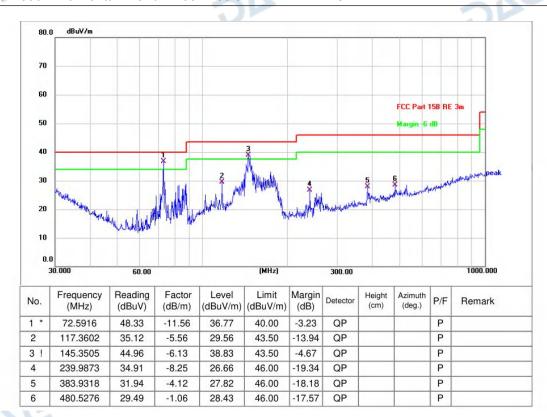
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4.7.3 Test Data:

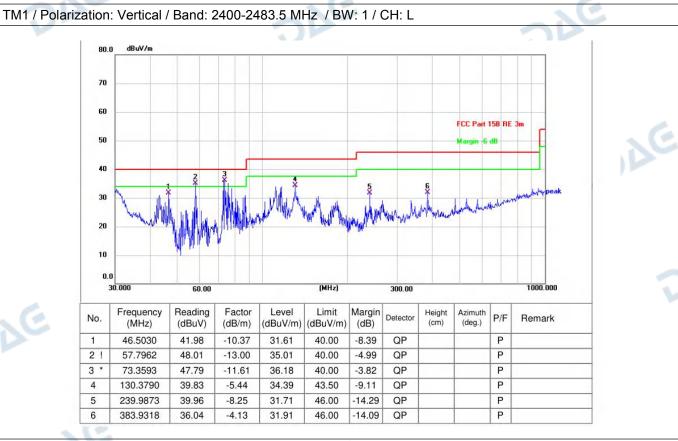
TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L



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Remark:

- 1. Margin=Level Limit, Level=Test receiver reading + correction factor
- 2. Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 3. The test software will only record the worst test angle and height, and only the worst case will be recorded in the test report.

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4.8 Emissions in frequency bands (above 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`							
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)					
	0.009-0.490	2400/F(kHz)	300					
	0.490-1.705	24000/F(kHz)	30					
	1.705-30.0	30	30					
	30-88	100 **	3					
	88-216	150 **	3					
	216-960	200 **	3					
	Above 960	500	3					
	these frequency bands is p and 15.241. In the emission table above The emission limits shown employing a CISPR quasi-p	ermitted under other sector, the tighter limit applies in the above table are baseak detector except for the table and the limit applies. Radiated emiss	sed on measurements the frequency bands 9–90 kHz, sion limits in these three bands					
Test Method:	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02							
Procedure:	above the ground at a 3 or 360 degrees to determine the b. For above 1GHz, the EU above the ground at a 3 medegrees to determine the pc. The EUT was set 3 or 10 which was mounted on the d. The antenna height is varied determine the maximum varied polarizations of the antenna e. For each suspected emisting the antenna was turned from 0 degrees f. The test-receiver system Bandwidth with Maximum Fig. If the emission level of the specified, then testing could reported. Otherwise the emitested one by one using period of the standard process.	10 meter semi-anechoic he position of the highest T was placed on the top eter fully-anechoic chamb osition of the highest rad meters away from the intop of a variable-height a ried from one meter to follue of the field strength. It are set to make the measion, the EUT was arran eights from 1 meter to 4 was tuned to heights 1 n to 360 degrees to find the was set to Peak Detect Fold Mode. The EUT in peak mode was to be stopped and the peak issions that did not have	of a rotating table 1.5 meters per. The table was rotated 360 liation. Iterference-receiving antenna, antenna tower. For meters above the ground to Both horizontal and vertical assurement. It ged to its worst case and then meters (for the test frequency of meter) and the rotatable table e maximum reading. I function and Specified s 10dB lower than the limit ask values of the EUT would be					
	i. The radiation measurement Transmitting mode, and fou j. Repeat above procedures Remark:	ents are performed in X, \ Ind the X axis positioning Is until all frequencies mea Iz, through pre-scan foun	which it is the worst case. asured was complete. d the worst case is the lowest					

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2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor "C Preamplifier Factor

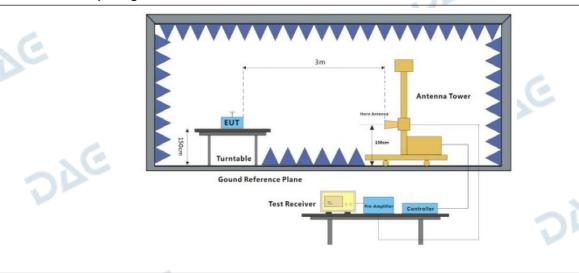
Report No.: DACE241112015RL001

3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.8.1 E.U.T. Operation:

Operating Environment:								
Temperature: 23.5 °C Humidity: 48 % Atmospheric Pressure: 102 kPa								
Pretest mode:		TM1	C					
Final test mode:	1	TM1				1 C		

4.8.2 Test Setup Diagram:

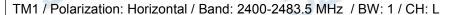


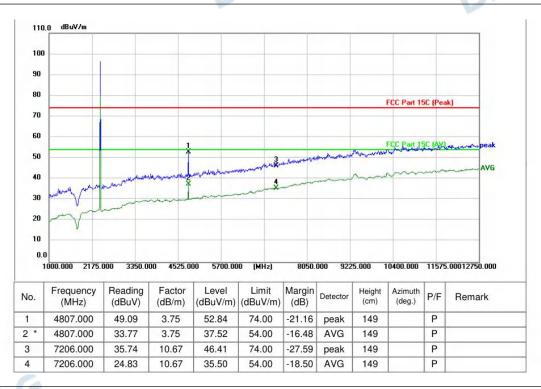
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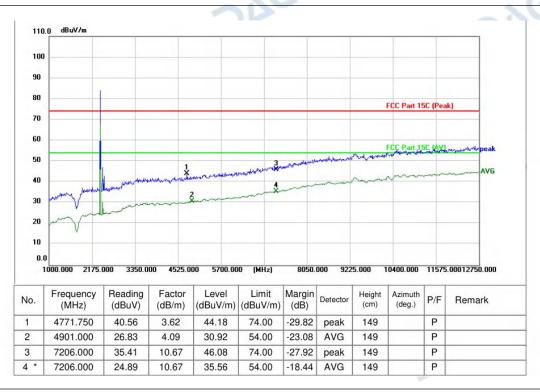


4.8.3 Test Data:





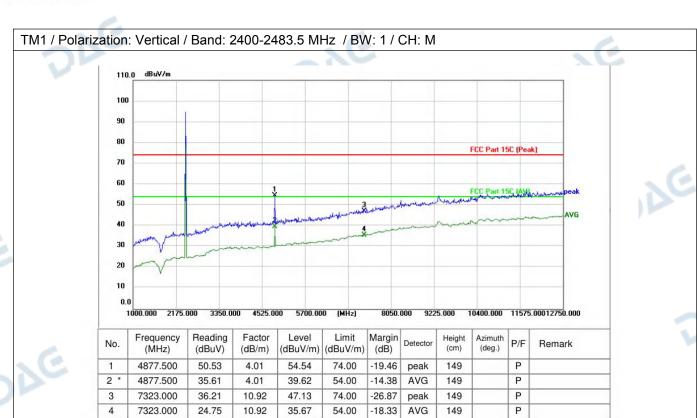
TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L

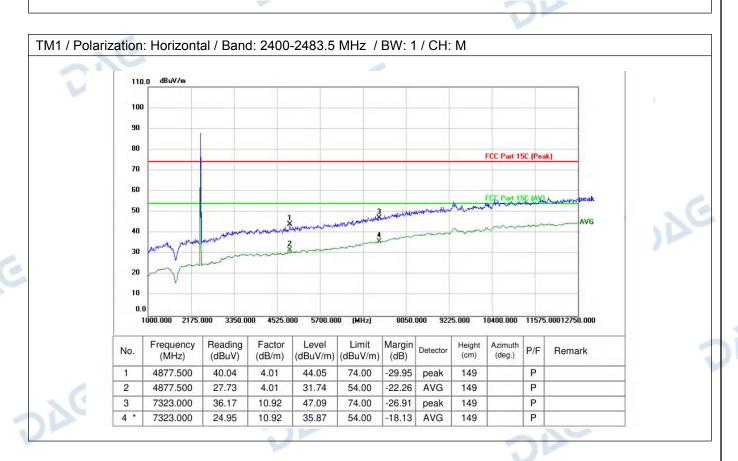


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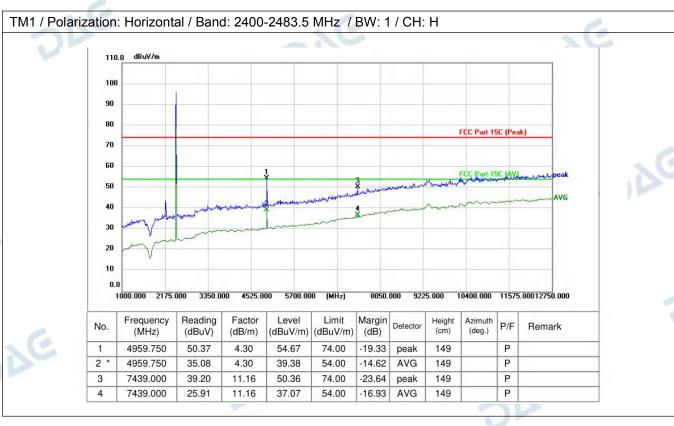
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TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H dBuV/m 110.0 100 90 70 50 30 10 1000.000 2175.000 3350.000 4525.000 8050,000 9225.000 10400.000 11575.00012750.000 Reading Frequency Factor Level Limit Margin Height Azimuth P/F Remark No. (deg.) (MHz) (dB/m) (dBuV/m) (dBuV/m) (dBuV) (dB) (cm) 4960.000 39.01 4.30 43.31 74.00 30.69 149 Р peak 2 4960.000 26.45 4.30 30.75 54.00 23.25 AVG 149 P 3 7440.000 11.16 46.88 74.00 149 Р 35.72 27.12 peak 7440.000 11.16 36.02 54.00 -17.98 149 Р

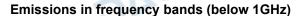
Remark:Margin=Level - Limit, Level=Test receiver reading + correction factor

The test software will only record the worst test angle and height, and only the worst case will be recorded in the test report.

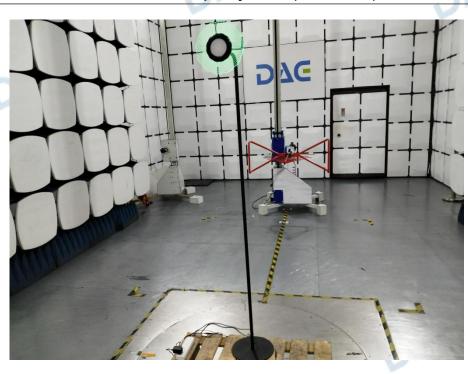
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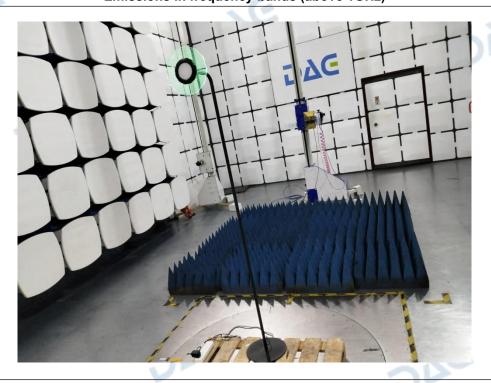
5 TEST SETUP PHOTOS



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Emissions in frequency bands (above 1GHz)

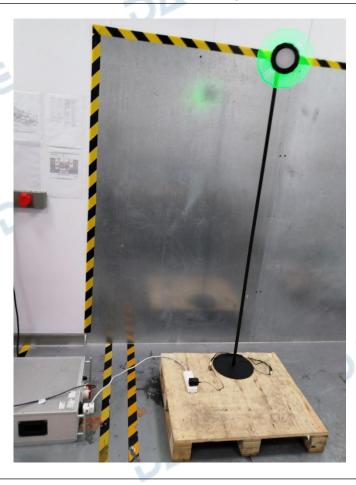


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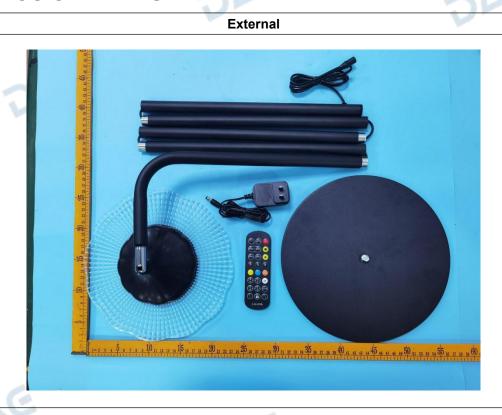




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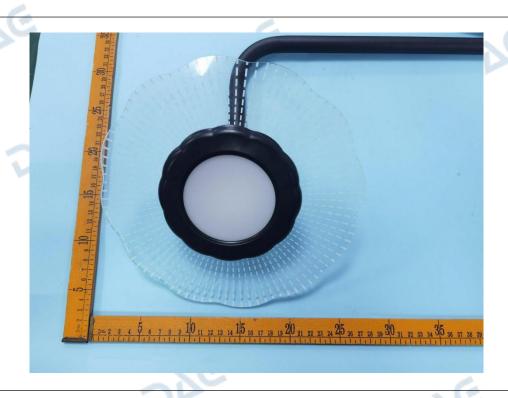
6 PHOTOS OF THE EUT







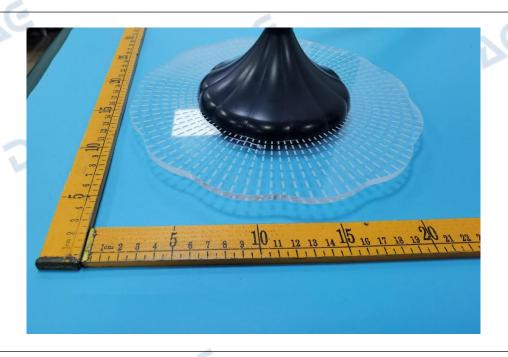
V1.0







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Internal





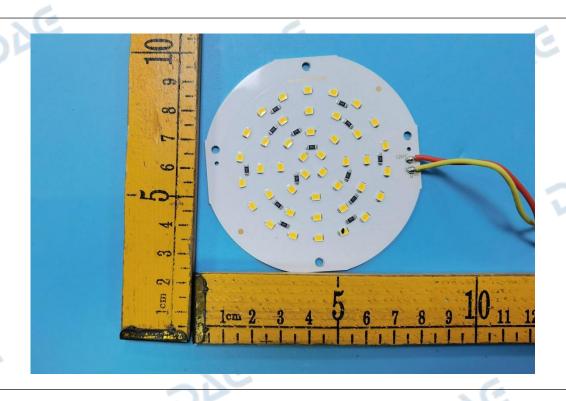
V1.0

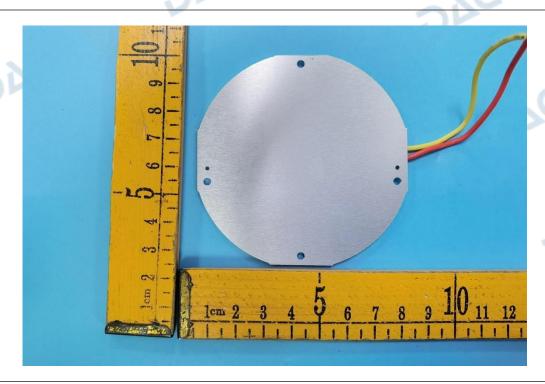






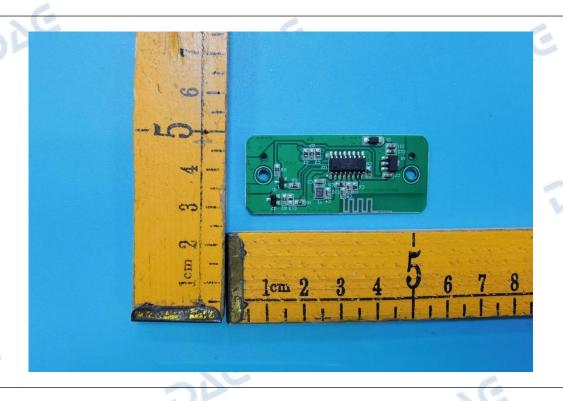
V1.0

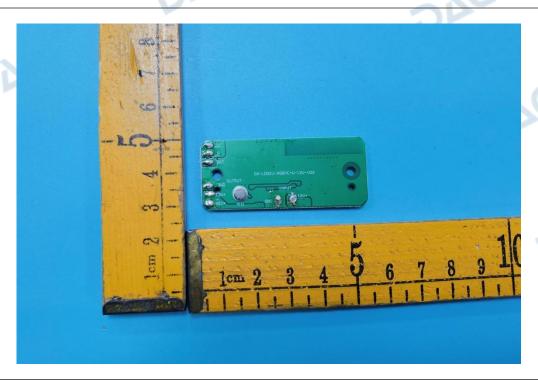






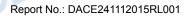




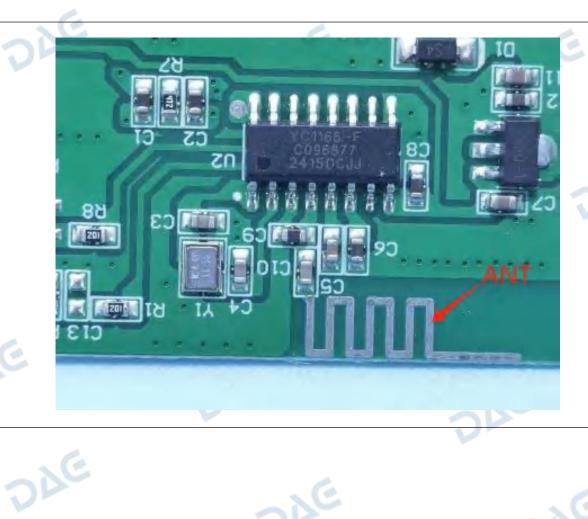


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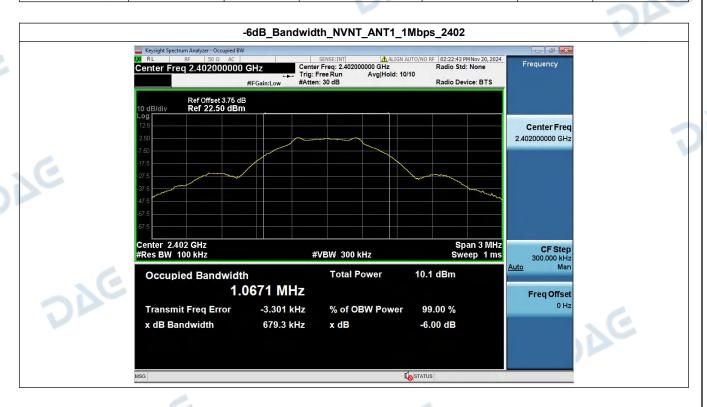
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Appendix

1. -6dB Bandwidth

V1.0

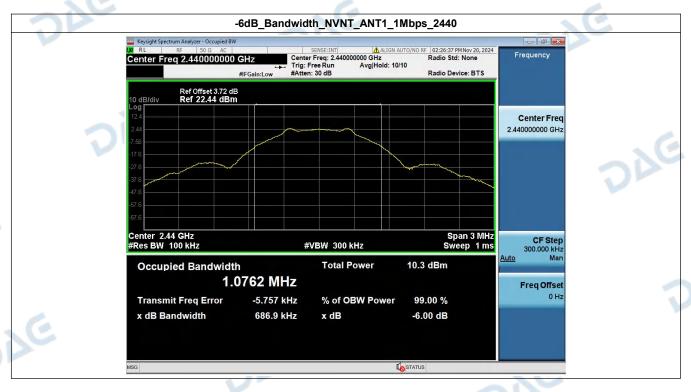
Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	1Mbps	2402.00	679.27	500	Pass
NVNT	ANT1	1Mbps	2440.00	686.87	500	Pass
NVNT	ANT1	1Mbps	2480.00	688.25	500	Pass

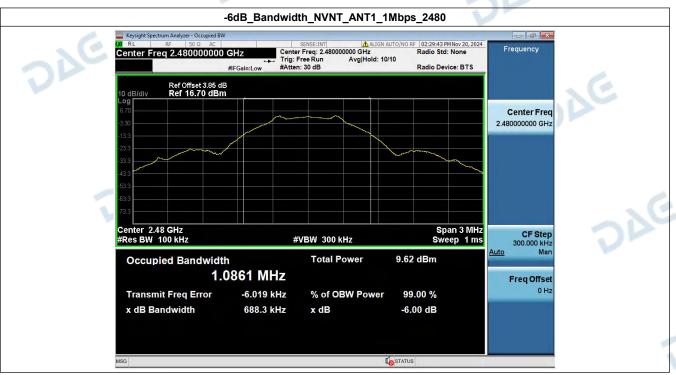


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V1.0





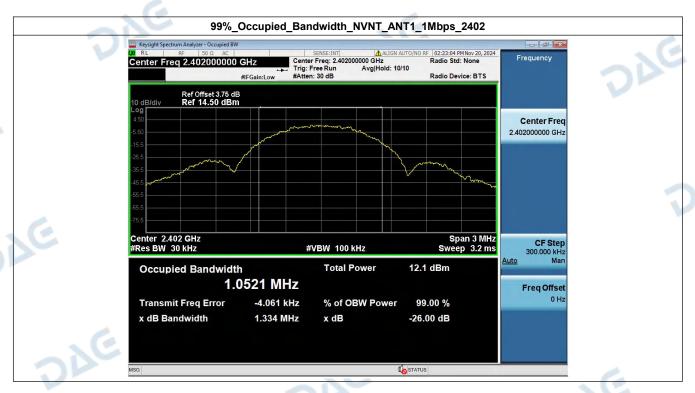
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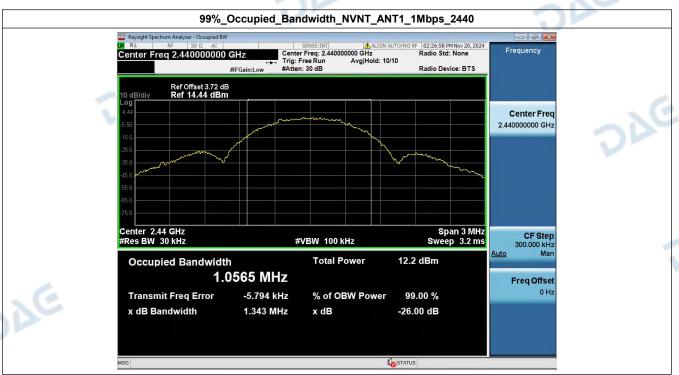


V1.0 Report No.: DACE241112015RL001

99% Occupied Bandwidth

Condition	Antenna	Rate	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	1Mbps	2402.00	1.052
NVNT	ANT1	1Mbps	2440.00	1.056
NVNT	ANT1	1Mbps	2480.00	1.070





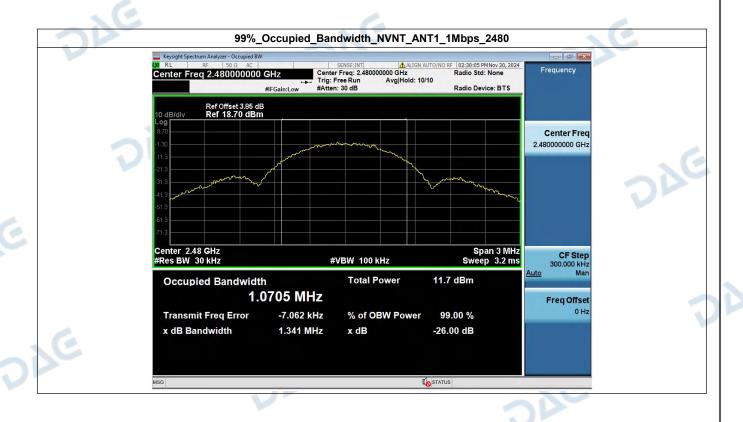
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V1.0



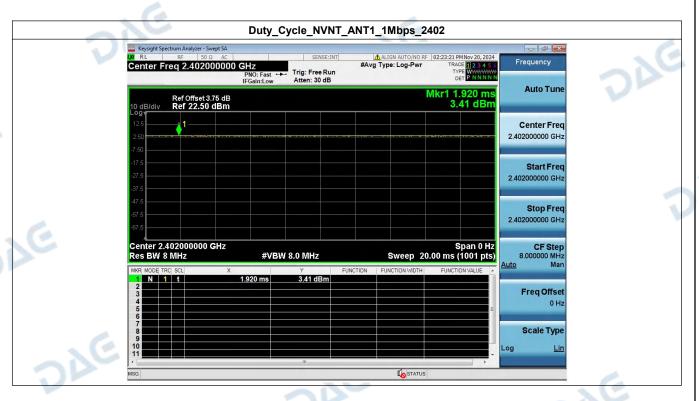
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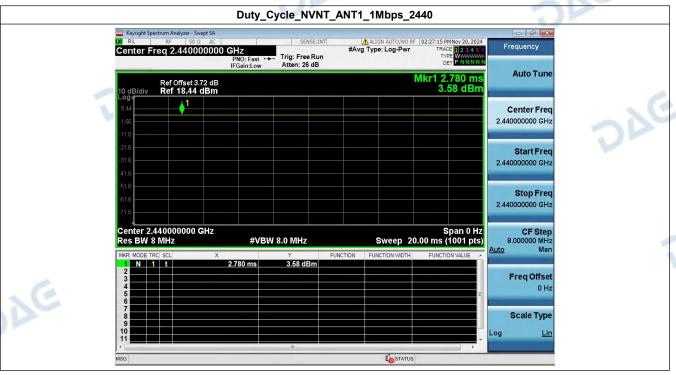
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V1.0

3. Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1Mbps	2402.00	100	0.00
NVNT	ANT1	1Mbps	2440.00	100	0.00
NVNT	ANT1	1Mbps	2480.00	100	0.00





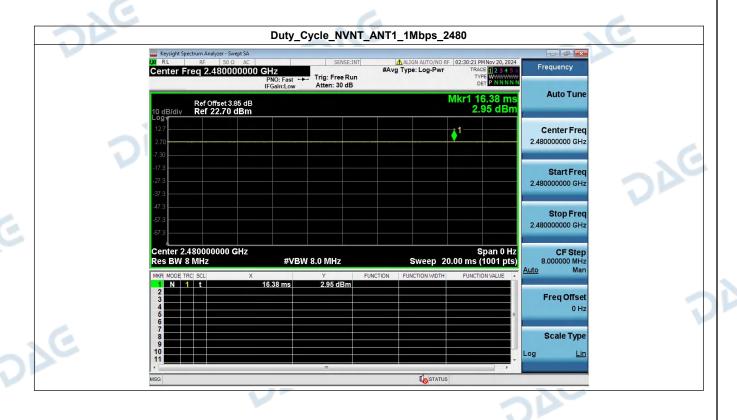
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V1.0



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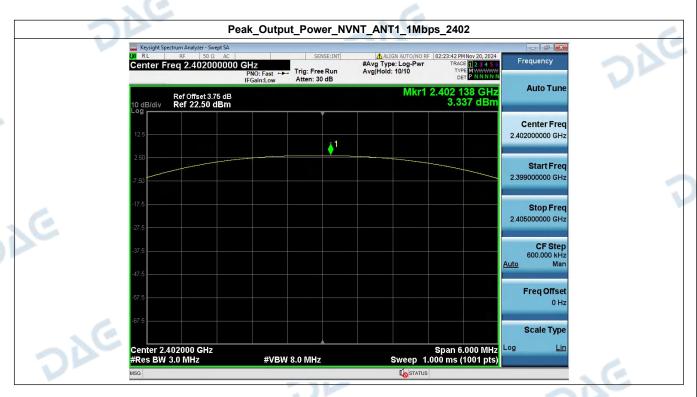
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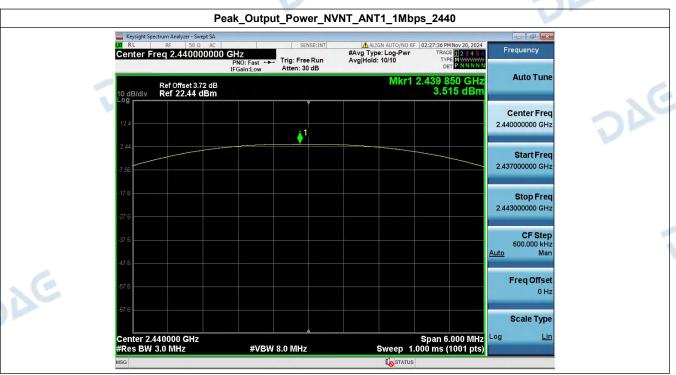


4. Peak Output Power

V1.0

Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1Mbps	2402.00	3.34	2.16	1000	Pass
NVNT	ANT1	1Mbps	2440.00	3.52	2.25	1000	Pass
NVNT	ANT1	1Mbps	2480.00	2.89	1.95	1000	Pass





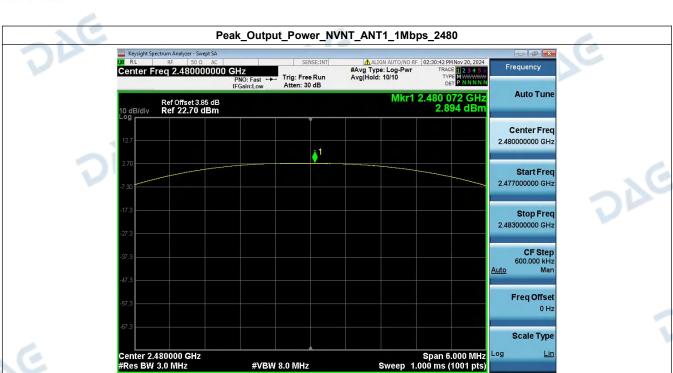
102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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#VBW 8.0 MHz

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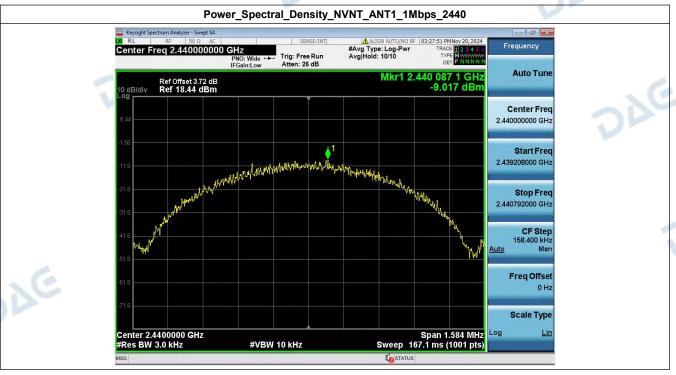


5. Power Spectral Density

V1.0

Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	1Mbps	2402.00	-9.25	8	Pass
NVNT	ANT1	1Mbps	2440.00	-9.02	8	Pass
NVNT	ANT1	1Mbps	2480.00	-8.09	8	Pass





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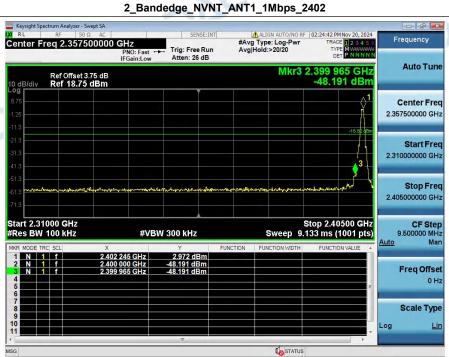
6. Bandedge

V1.0

Condition	Antenna	Rate	TX_Frequency (MHz)	Max. Mark Frequency (MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	2399.965	-48.191	-16.820	Pass
NVNT	ANT1	1Mbps	2480.00	2483.775	-60.283	-17.114	Pass

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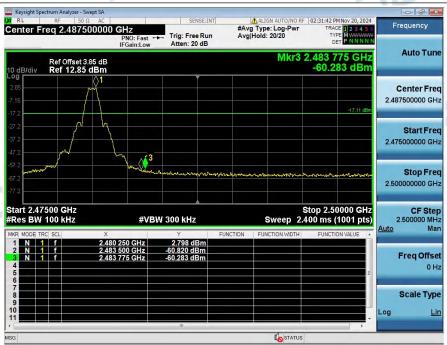
4

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V1.0



2_Bandedge_NVNT_ANT1_1Mbps_2480



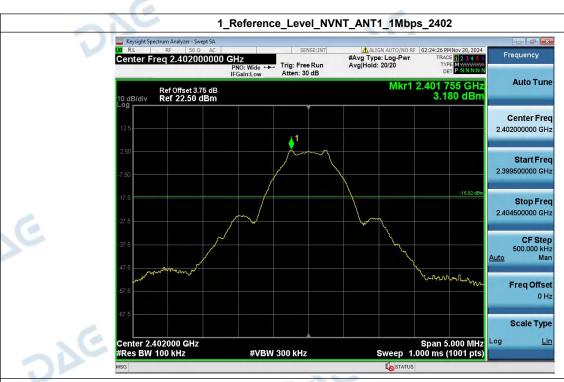
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7. Spurious Emission

V1.0

Condition	Antenna	Rate	TX_Frequency(MHz)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1Mbps	2402.00	-43.045	-16.820	Pass
NVNT	ANT1	1Mbps	2440.00	-42.553	-16.789	Pass
NVNT	ANT1	1Mbps	2480.00	-49.102	-17.114	Pass





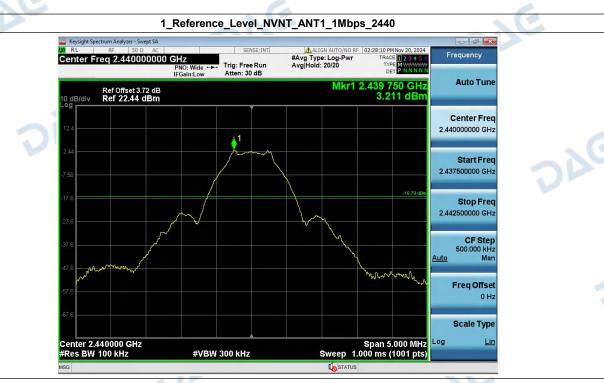


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4

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V1.0



2_Spurious_Emission_NVNT_ANT1_1Mbps_2440

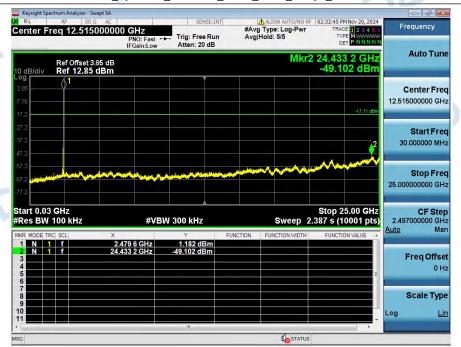


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******************* End of Report **************

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