

RF TEST REPORT

For

SHENZHEN ANYTEC TECHNOLOGY CO.,LTD

Product Name: Smart Watch Test Model(s): HM95

Report Reference No. : DACE250721002RF002

FCC ID : 2A2WF-HM95

Applicant's Name : SHENZHEN ANYTEC TECHNOLOGY CO.,LTD

Address 1st Floor, Building F, ICC Industrial City, Kaicheng 2nd Road, Hangcheng

Sub-district, Bao 'an District, Shenzhen City, China

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

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

Report No.: DACE250721002RF002

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

Guangdong, China

Test Specification Standard : 47 CFR Part 15.247

Date of Receipt : July 21, 2025

Date of Test : July 21, 2025 to July 31, 2025

Data of Issue : July 31, 2025

Result : Pass

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Apply for company information

Applicant's Name : SHENZHEN ANYTEC TECHNOLOGY CO.,LTD				
Address	:	1st Floor, Building F, ICC Industrial City, Kaicheng 2nd Road, Hangcheng Sub-district, Bao 'an District, Shenzhen City, China		
Product Name	:	Smart Watch		
Test Model(s)	:	HM95		
Series Model(s)		HM110, HM111, HM112, HM113, HM115		
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

Keren Huang / Test Engineer

July 31, 2025

Supervised by:

Stone Jin

Stone Yin / Project Engineer

July 31, 2025



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Revision History Of Report

Report No.: DACE250721002RF002

Version	Description	REPORT No.	Issue Date	
V1.0 Original		DACE250721002RF002	July 31, 2025	
		-36		
	1	10	_ 1/6	
			2	

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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		47 CFR 15.203	Pass
Conducted Emission at AC power line	ANSI C63.10-2020 section 6.2	47 CFR 15.207(a)	Pass
6dB Bandwidth	ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(a)(2)	Pass
Maximum Conducted Output Power	ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(b)(3)	Pass
Power Spectral Density	ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(e)	Pass
Emissions in non-restricted frequency bands	ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02	47 CFR 15.247(d)	Pass
Band edge emissions (Radiated)	ANSI C63.10-2020 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 C63.10-2020 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 C63.10-2020 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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2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : SHENZHEN ANYTEC TECHNOLOGY CO.,LTD

Address : 1st Floor, Building F, ICC Industrial City, Kaicheng 2nd Road, Hangcheng

Sub-district, Bao 'an District, Shenzhen City, China

Report No.: DACE250721002RF002

Manufacturer : SHENZHEN ANYTEC TECHNOLOGY CO.,LTD

Address : 1st Floor, Building F, ICC Industrial City, Kaicheng 2nd Road, Hangcheng

Sub-district, Bao 'an District, Shenzhen City, China

2.2 Description of Device (EUT)

Product Name:	Smart Watch
Sample No.:	Q250721012
Model/Type reference:	HM95
Series Model(s):	HM110, HM111, HM112, HM113, HM115
Model differences:	There are multiple models of the product, with differences in the color of the appearance and customer requirements for different models in the market, resulting in multiple models. However, the internal circuit boards, PCBs, BOMs, and other electrical structures of these models are the same, and these differences will not affect RF&EMC performance. Therefore, the selected test model is:HM95
Trade Mark:	N/A
Product Description:	Smart Watch
Power Supply:	DC3.7V from battery
Operation Frequency:	2402MHz to 2480MHz
Number of Channels:	40
Modulation Type:	GFSK
Antenna Type:	Copper Antenna
Antenna Gain:	0dBi
Hardware Version:	V1.0
Software Version:	V3.00

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

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

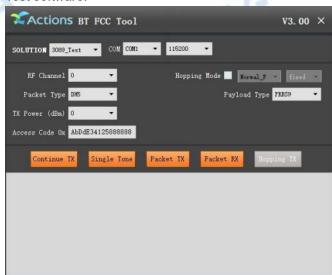
Test channel	Frequency (MHz)
rest chamiler	EDR/BR
Lowest channel	2402MHz
Middle channel	2441MHz
Highest channel	2480MHz

2.3 Description of Test Modes

V1.0

No	Title	Description
TM1	TX mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with GFSK modulation at lowest, middle and highest channel.
TM2	Charging mode	Charging mode

Test software:



2.4 Description of Support Units

Title	Manufacturer	Model No.	Serial No.
Adapter	PHOTON	ATXC-069AC65B	1

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2.5 Equipments Used During The Test

Conducted Emission a	at AC power line	C			7
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Cable	SCHWARZ BECK	1	1	2025-04-18	2026-04-17
Pulse Limiter	SCHWARZ BECK	VTSD 9561-F Pulse limiter 10dB Attenuation	561-G071	2024-12-06	2025-12-05
50ΩCoaxial Switch	Anritsu	MP59B	M20531	1	
Test Receiver	Rohde & Schwarz	ESPI TEST RECEIVER	1164.6607K03 -102109-MH	2025-04-25	2026-04-24
L.I.S.N	R&S	ESH3-Z5	831.5518.52	2025-04-18	2026-04-17
L.I.S.N	SCHWARZ BECK	NSLK 8126	05055	2025-04-18	2026-04-17
Pulse Limiter	CYBERTEK	EM5010A		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 Technology(she nzhen) Co.,Ltd.	RTS-01	V1.0.0	46	<u> </u>
RF Sensor Unit	Tachoy Information Technology(she nzhen) Co.,Ltd.	TR1029-2	000001	1	1
Wideband radio communication tester	R&S	CMW500	113410	2025-04-25	2026-04-24
Vector Signal Generator	Keysight	N5181A	MY50143455	2024-12-06	2025-12-05
Signal Generator	Keysight	N5182A	MY48180415	2024-12-06	2025-12-05
Spectrum Analyzer	Keysight	N9020A	MY53420323	2024-12-06	2025-12-05

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Emissions in frequency bands (above 1GHz) Band edge emissions (Radiated)

Emissions in frequency bands (below 1GHz)

	,					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
EMI Test software	Farad	EZ -EMC	V1.1.42	1	1	
Positioning Controller	MF	MF-7802	1	1	/	
Amplifier(18-40G)	COM-POWER	AH-1840	10100008-1	2024-04-26	2027-04-25	
Horn antenna	COM-POWER	AH-1840 (18-40G)	10100008	2024-04-26	2027-04-25	
Loop antenna	ZHINAN	ZN30900C	ZN30900C	2025-04-28	2026-04-27	
Cable(LF)#2	Schwarzbeck	1	/	2024-12-19	2025-12-18	
Cable(LF)#1	Schwarzbeck	1	1	2024-12-19	2025-12-18	
Cable(HF)#2	Schwarzbeck	AK9515E	96250	2025-04-25	2026-04-24	
Cable(HF)#1	Schwarzbeck	SYV-50-3-1	1	2025-04-25	2026-04-24	
Power amplifier(LF)	Schwarzbeck	BBV9743	9743-151	2025-04-29	2026-04-28	
Power amplifier(HF)	Schwarzbeck	BBV9718	9718-282	2025-04-29	2026-04-28	
Wideband radio communication tester	R&S	CMW500	113410	2025-04-25	2026-04-24	
Spectrum Analyzer	R&S	FSP30	1321.3008K40 -101729-jR	2025-04-18	2026-04-17	
Test Receiver	R&S	ESCI 3	1166.5950K03 -101431-Jq	2025-04-18	2026-04-17	
Horn Antenna	Sunol Sciences	DRH-118	A091114	2025-04-21	2026-04-20	
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	N
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.

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2.7 Identification of Testing Laboratory

V1.0

Company Name:	Shenzhen DACE Testing Technology Co., Ltd.			
Address:	102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China			
Phone Number:	+86-13267178997			
Fax Number:	86-755-29113252			
Identification of the Responsible Testing Location				

	J. Company
Company Name:	Shenzhen DACE Testing Technology Co., Ltd.
Address:	102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Connunity, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Phone Number:	+86-13267178997
Fax Number:	86-755-29113252
FCC Registration Number:	0032847402
Designation Number:	CN1342
Test Firm Registration Number:	778666
A2LA Certificate Number:	6270.01

2.8 Announcement

- (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.
- (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, the laboratory is not responsible for the accuracy of the information provided by the client(item 2.2). 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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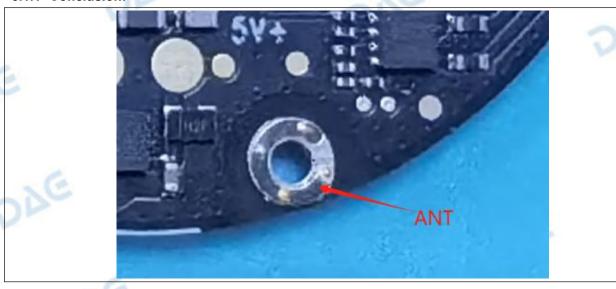
3 Evaluation Results (Evaluation)

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.

3.1.1 Conclusion:



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Radio Spectrum Matter Test Results (RF)

4.1 Conducted Emission at AC power line

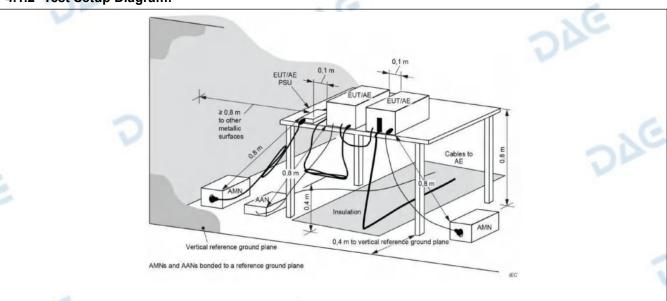
V1.0

section, for an intentional radiator the utility (AC) power line, the radio free AC power line on any frequency or MHz, shall not exceed the limits in the section of the section.	nat is designed to be conne quency voltage that is cond frequencies, within the bar he following table, as mea	ected to the public ducted back onto the nd 150 kHz to 30			
Frequency of emission (MHz)	Conducted limit (dBµV)	, C			
0	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	e frequency.				
ANSI C63.10-2020 section 6.2					
Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices					
	section, for an intentional radiator thutility (AC) power line, the radio free AC power line on any frequency or MHz, shall not exceed the limits in tuh/50 ohms line impedance stabilized Frequency of emission (MHz) 0.15-0.5 0.5-5 5-30 *Decreases with the logarithm of the ANSI C63.10-2020 section 6.2	Quasi-peak 0.15-0.5 66 to 56* 0.5-5 5-30 60 *Decreases with the logarithm of the frequency. ANSI C63.10-2020 section 6.2 Refer to ANSI C63.10-2020 section 6.2, standard test method			

4.1.1 E.U.T. Operation:

Operating Environment:						
Temperature:	23 °C		Humidity:	54 %	Atmospheric Pressure:	101 kPa
Pretest mode: TN		TM2			V	
Final test mode:	60	TM2				

4.1.2 Test Setup Diagram:



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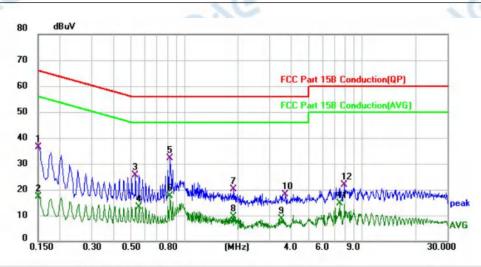
Tel: +86-755-23010613

E-mail: service@dace-lab.com



4.1.3 Test Data:





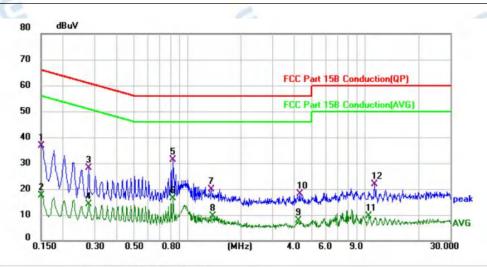
1 2		MHz	dBuV		ment	Limit	Over		
			UDUV	dB	dBuV	dBuV	dB	Detector	Comment
2		0.1500	26.46	10.11	36.57	66.00	-29.43	QP	
-		0.1500	7.07	10.11	17.18	56.00	-38.82	AVG	
3		0.5299	15.46	10.10	25.56	56.00	-30.44	QP	
4		0.5540	3.29	10.10	13.39	46.00	-32.61	AVG	
5	*	0.8340	22.14	10.10	32.24	56.00	-23.76	QP	
6		0.8340	7.35	10.10	17.45	46.00	-28.55	AVG	
7		1.8940	10.24	10.01	20.25	56.00	-35.75	QP	
8		1.8940	-0.49	10.01	9.52	46.00	-36.48	AVG	
9		3.5100	-1.52	10.11	8.59	46.00	-37.41	AVG	
10		3.6860	7.89	10.12	18.01	56.00	-37.99	QP	
11		7.5060	4.37	10.23	14.60	50.00	-35.40	AVG	
12		7.9580	11.59	10.26	21.85	60.00	-38.15	QP	

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V1.0



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1500	26.58	10.11	36.69	66.00	-29.31	QP	
2		0.1500	7.52	10.11	17.63	56.00	-38.37	AVG	
3		0.2779	18.19	10.09	28.28	60.88	-32.60	QP	
4		0.2779	4.10	10.09	14.19	50.88	-36.69	AVG	
5	*	0.8340	21.14	10.10	31.24	56.00	-24.76	QP	
6		0.8340	6.25	10.10	16.35	46.00	-29.65	AVG	
7		1.3660	9.89	10.07	19.96	56.00	-36.04	QP	
8		1.3900	-0.40	10.06	9.66	46.00	-36.34	AVG	
9		4.2180	-2.35	10.16	7.81	46.00	-38.19	AVG	
10		4.2700	7.85	10.17	18.02	56.00	-37.98	QP	
11		10.4540	-0.74	10.33	9.59	50.00	-40.41	AVG	
12		11.2900	11.42	10.38	21.80	60.00	-38.20	QP	

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 C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be
DAG	as close as possible to this value. 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

Report No.: DACE250721002RF002

4.2.1 E.U.T. Operation:

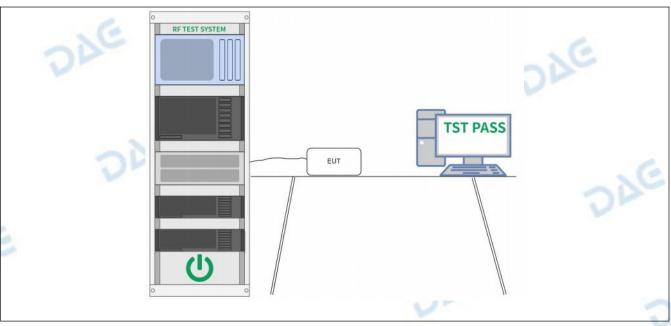
Operating Environment:						
Temperature:	23 °C		Humidity:	54 %	Atmospheric Pressure:	101 kPa
Pretest mode:		TM1			. 60	
Final test mode:	2	TM1			200	- 60

4.2.2 Test Setup Diagram:

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4.2.3 Test Data:

DAG

Please Refer to Appendix for Details.

DAG



4.3 Maximum Conducted Output Power

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 C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, 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: e.i.r.p. (dBm) = Conducted Power (dBm) + Ant gain (dBi)

Report No.: DACE250721002RF002

4.3.1 E.U.T. Operation:

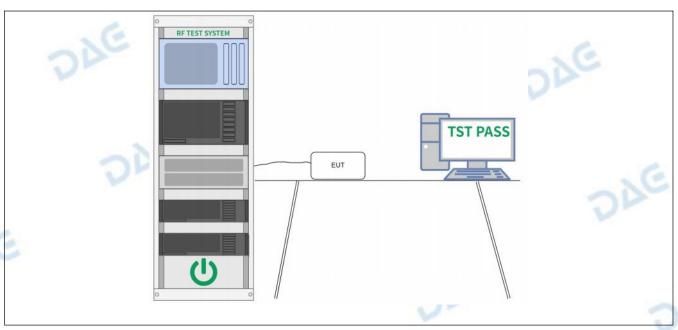
Operating Environment:							6	
Temperature:	23 °C		Humidity:	54 %	Atmospheric Pressure:	101 kPa	~	70
Pretest mode:		TM1					V	
Final test mode	:	TM1						

4.3.2 Test Setup Diagram:

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4.3.3 Test Data:

DAG

Please Refer to Appendix for Details.

DAG

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4.4 Power Spectral Density

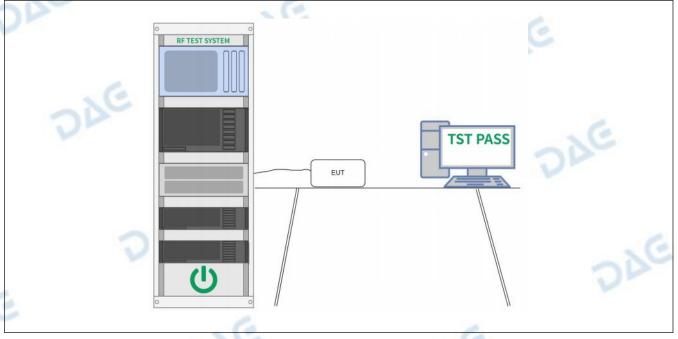
V1.0

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 C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission

4.4.1 E.U.T. Operation:

Operating Environment:								
Temperature:	23 °C	V.	Humidity:	54 %	Atmospheric Pressure:	101 kPa		
Pretest mode:		TM1			OF			
Final test mode:		TM1				V		

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

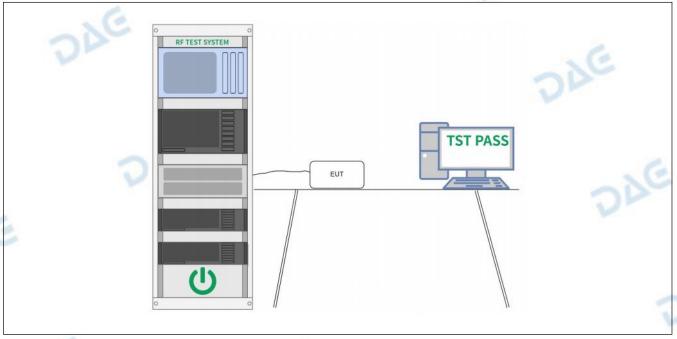
V1.0

Test Requirement:	47 CFR 15.247(d)
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 C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3

4.5.1 E.U.T. Operation:

Operating Environment:								
Temperature:	23 °C		Humidity:	54 %	Atmospheric Pressure:	101 kPa		
Pretest mode:		TM1	~1	10		C		
Final test mode	•	TM1	U		20			

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)

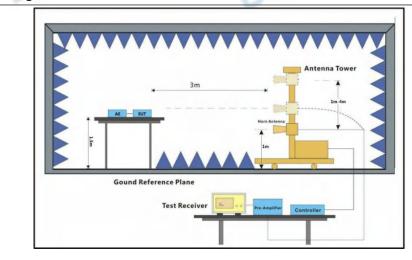
V1.0

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				
	** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency band 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation wit these frequency bands is permitted under other sections of this part, e.g., §§ 15 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 k 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bar are based on measurements employing an average detector.						
Test Method:	ANSI C63.10-2020 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02						
Procedure:	ANSI C63.10-2020 secti	on 6.10.5.2					

4.6.1 E.U.T. Operation:

Operating Environment:								
Temperature:	23 °C		Humidity:	54 %	Atmosph	eric Pressure:	101 kPa	
Pretest mode:		TM1						
Final test mode	~1	TM1			10	11		175.00

4.6.2 Test Setup Diagram:

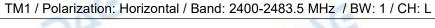


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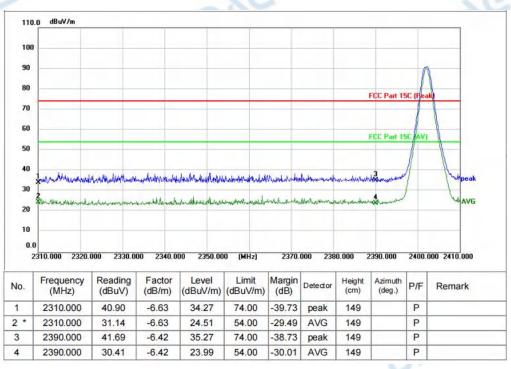
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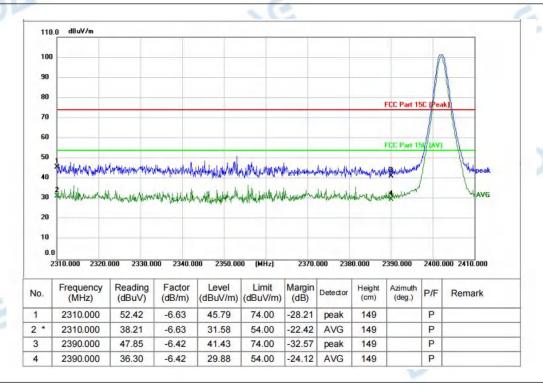
4.6.3 Test Data:



V1.0

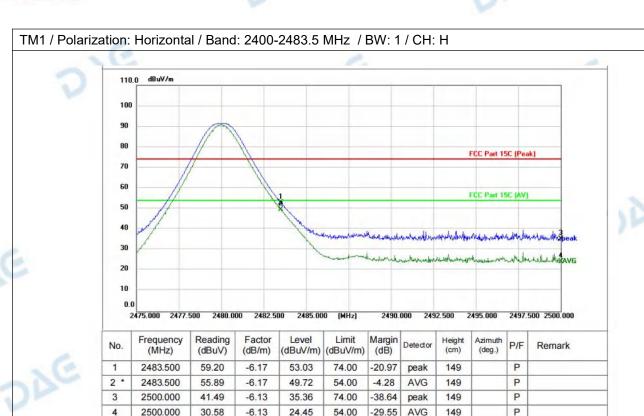


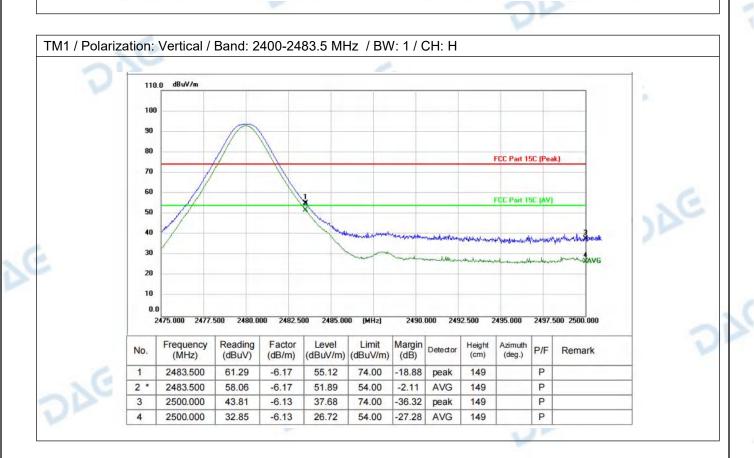
TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L



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DAG V1.0

3

2390.000

2390.000

41.51

30.32

-6.42

-6.42

35.09

23.90

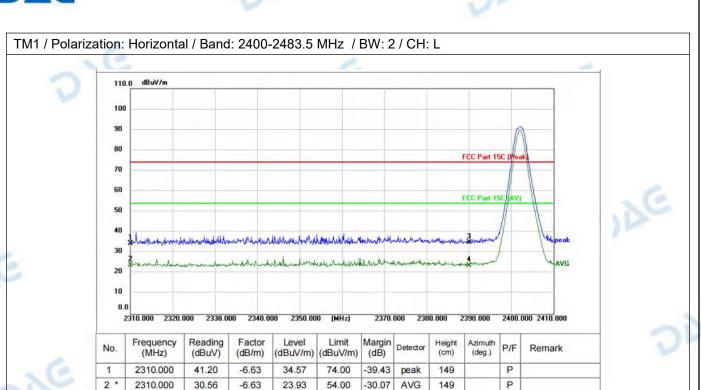
74.00

54.00

38.91

-30.10

AVG



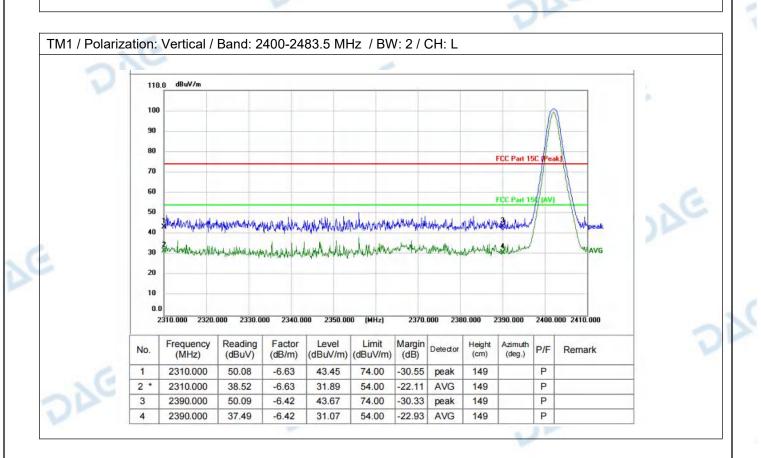
Report No.: DACE250721002RF002

P

P

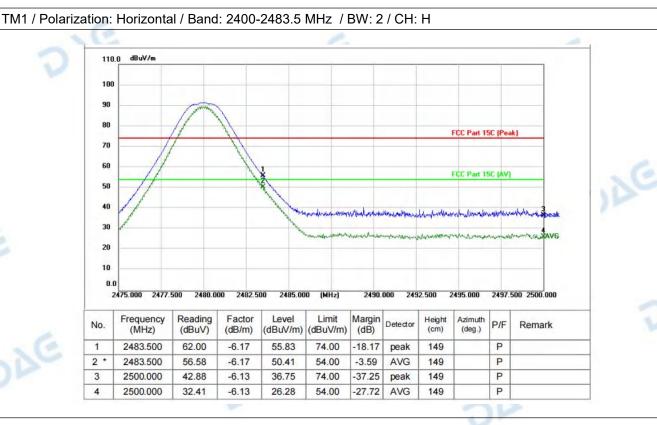
149

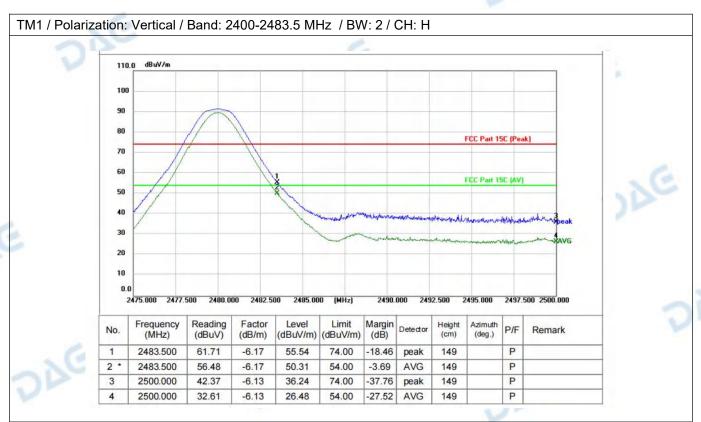
149





V1.0





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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4.7 Emissions in frequency bands (below 1GHz)

Test Requirement:	restricted bands, as defin	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 I emissions from intentional					
	In the emission table about The emission limits show employing a CISPR quast 110–490 kHz and above	and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.						
Test Method:	ANSI C63.10-2020 section	ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02						
Procedure:	above the ground at a 3 a 360 degrees to determine b. For above 1GHz, the E above the ground at a 3 degrees to determine the c. The EUT was set 3 or which was mounted on the d. The antenna height is determine the maximum polarizations of the anternal	or 10 meter semi-anechoice the position of the highes EUT was placed on the top meter fully-anechoic chambe position of the highest rad 10 meters away from the ine top of a variable-height a varied from one meter to fo value of the field strength.	of a rotating table 1.5 meters per. The table was rotated 360 liation. Interference-receiving antenna, antenna tower. Our meters above the ground to Both horizontal and vertical asurement.					
	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.							
	specified, then testing co reported. Otherwise the	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 retested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.						
	i. The radiation measurer Transmitting mode, and f	h. Test the EUT in the lowest channel, the middle channel, the Highest channel. i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. j. Repeat above procedures until all frequencies measured was complete. Remark:						
_ 25	1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.							

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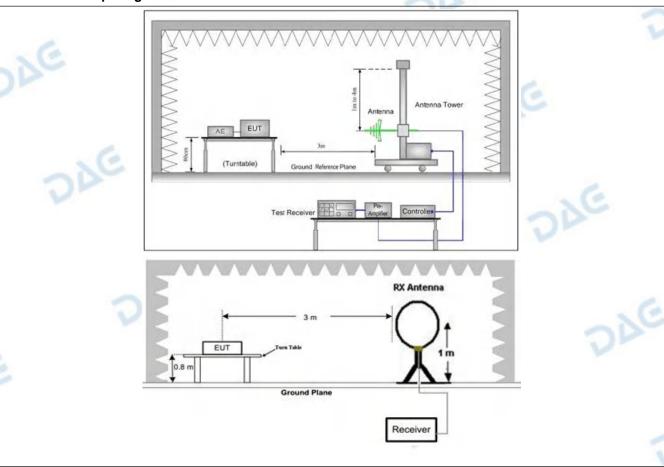
V1.0

- 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
- 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 °C		Humidity:	54 %	Atmospheric Pressure:	101 kPa		
Pretest mode:		TM1	(0)					
Final test mode:	- 9	TM1			Car			

4.7.2 Test Setup Diagram:

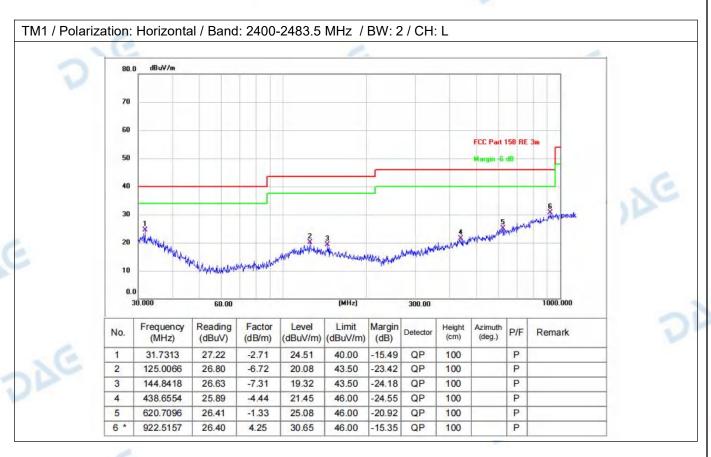


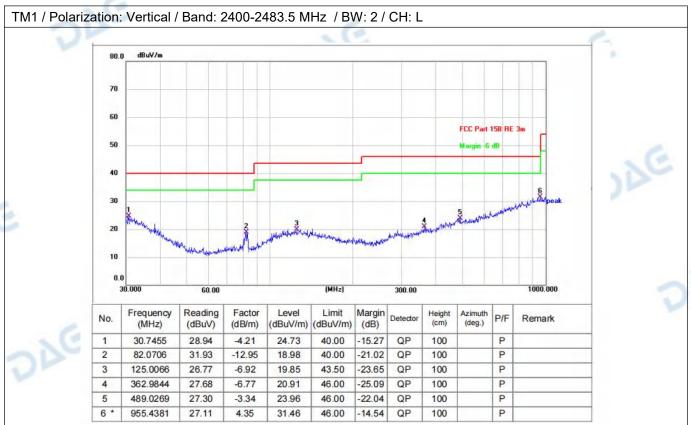
4.7.3 Test Data:

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V1.0





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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4.8 Emissions in frequency bands (above 1GHz)

Test Requirement:	restricted bands, as defin	(d), in addition, radiated em ned in § 15.205(a), must als in § 15.209(a)(see § 15.20	so comply with the radiated					
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)					
	0.009-0.490	2400/F(kHz)	300					
OP	0.490-1.705	24000/F(kHz)	30					
	1.705-30.0	30	30					
	30-88	100 **	3					
F	88-216	150 **	3					
	216-960	200 **	3					
	Above 960	500	3					
Dye	and 15.241. In the emission table about the emission limits show employing a CISPR quare 110–490 kHz and above	ove, the tighter limit applies vn in the above table are ba si-peak detector except for	ased on measurements the frequency bands 9–90 kHz, sion limits in these three bands					
Test Method:		ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02						
Procedure:	above the ground at a 3 360 degrees to determine b. For above 1GHz, the above the ground at a 3 degrees to determine the c. The EUT was set 3 or which was mounted on t d. The antenna height is determine the maximum polarizations of the antene. For each suspected e the antenna was tuned to below 30MHz, the antene was turned from 0 degree f. The test-receiver system Bandwidth with Maximur g. If the emission level of specified, then testing correported. Otherwise the tested one by one using reported in a data sheet. In the radiation measure Transmitting mode, and j. Repeat above procedure.	or 10 meter semi-anechoic e the position of the highes EUT was placed on the top meter fully-anechoic chamble position of the highest rad 10 meters away from the ir he top of a variable-height a varied from one meter to for value of the field strength. The are set to make the memission, the EUT was arrando heights from 1 meter to 4 ha was tuned to heights 1 resto 360 degrees to find them was set to Peak Detect In Hold Mode. If the EUT in peak mode was build be stopped and the peak media build be stopped and the peak media peak, quasi-peak or average west channel, the middle chaments are performed in X, Y	of a rotating table 1.5 meters per. The table was rotated 360 liation. Interference-receiving antenna, antenna tower. Our meters above the ground to Both horizontal and vertical assurement. Inged to its worst case and then meters (for the test frequency of meter) and the rotatable table in maximum reading. Function and Specified so 10dB lower than the limit ask values of the EUT would be a 10dB margin would be rege method as specified and then mannel, the Highest channel. Y, Z axis positioning for g which it is the worst case.					
· 6	Remark:		nd the worst case is the lowest					

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channel. Only the worst case is recorded in the report.

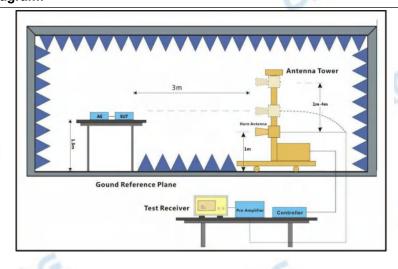
2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor "C Preamplifier Factor

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 °C		Humidity:	54 %	Atmospheric Pressure:	101 kPa	
Pretest mode: TM1			76				
Final test mode:		TM1			76		

4.8.2 Test Setup Diagram:



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4.8.3 Test Data:

3

4

5

6 *

7204.000

7204.000

9608.000

9608.000

40.98

27.88

35.43

24.68

4.37

4.37

8.09

8.09

45.35

32.25

43.52

32.77

74.00

54.00

74.00

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28.65

21.75

30.48

-21.23

peak

AVG

peak

AVG

149

149

149

149

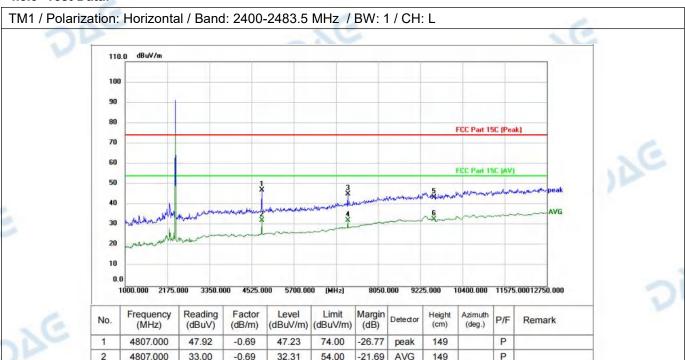
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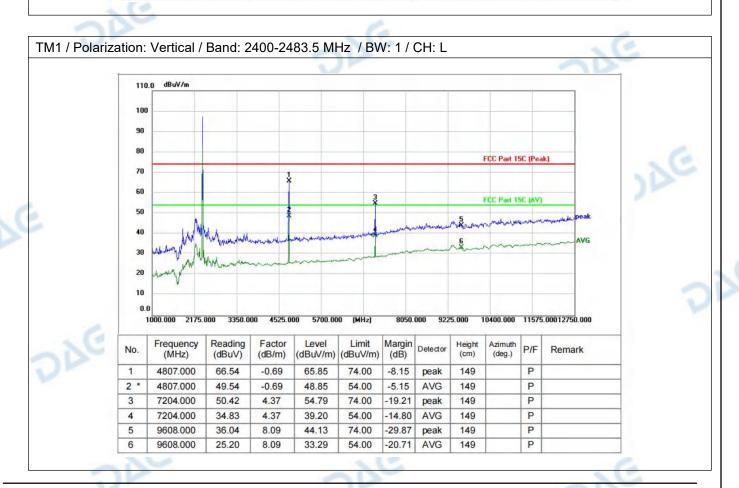
P

P

P

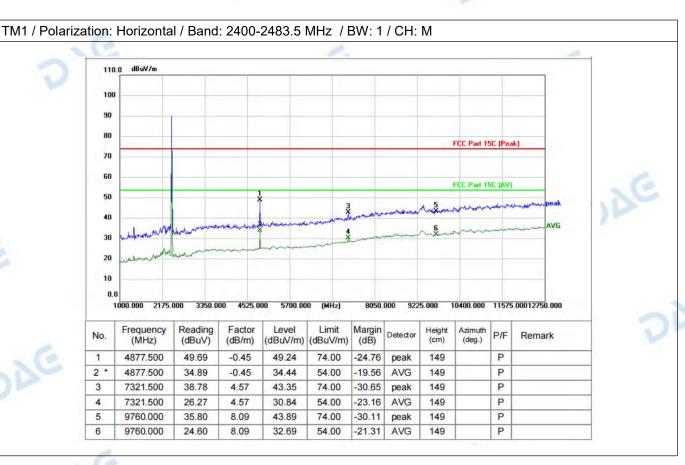
V1.0

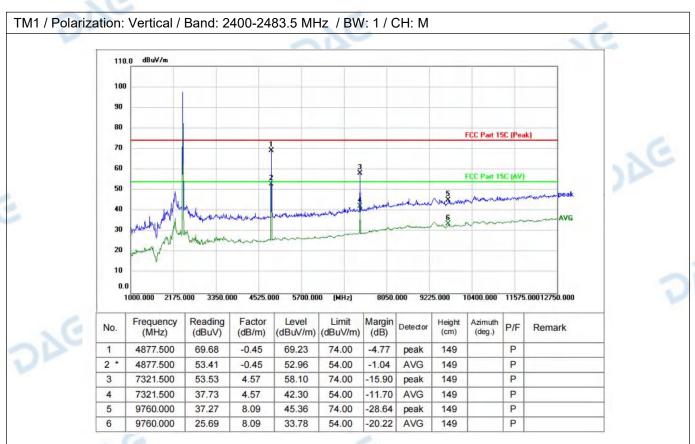




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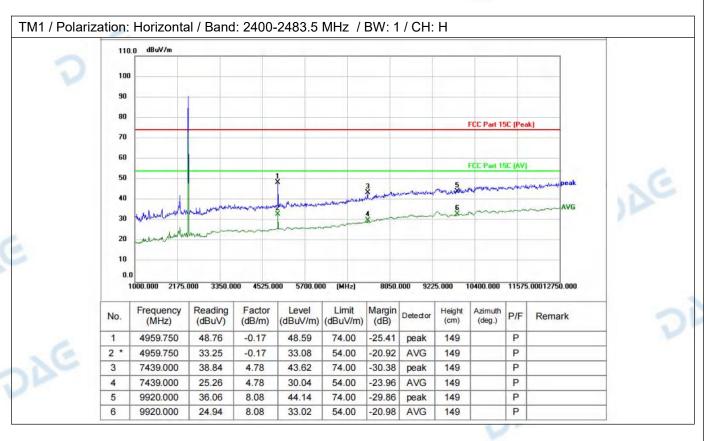


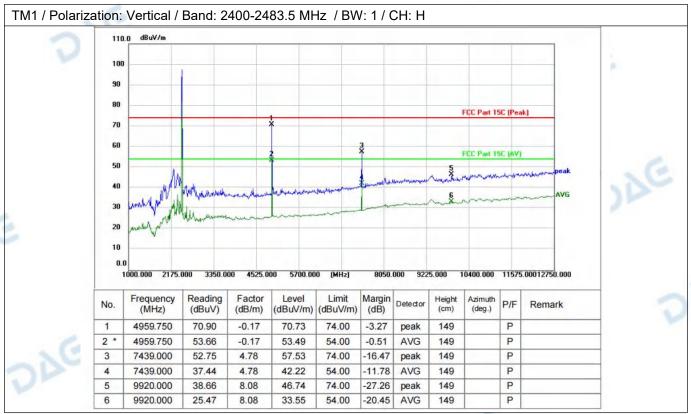


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V1.0





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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TEST SETUP PHOTOS

V1.0

Conducted Emission at AC power line



Band edge emissions (Radiated) Emissions in frequency bands (above 1GHz)

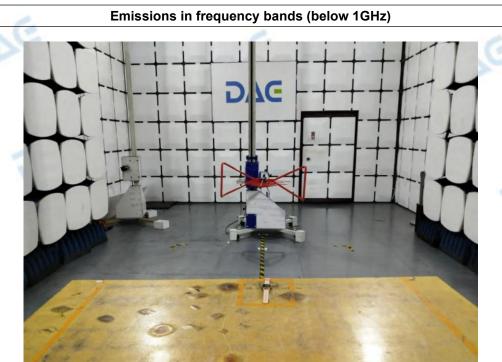


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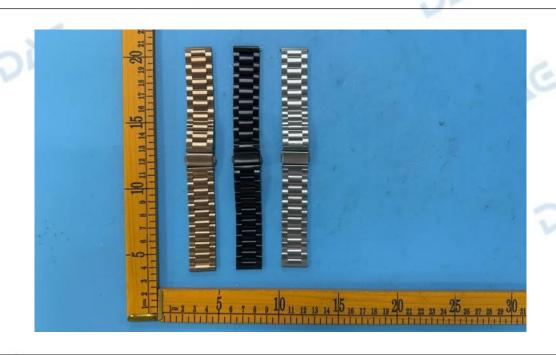
Report No.: DACE250721002RF002

6 PHOTOS OF THE EUT

V1.0







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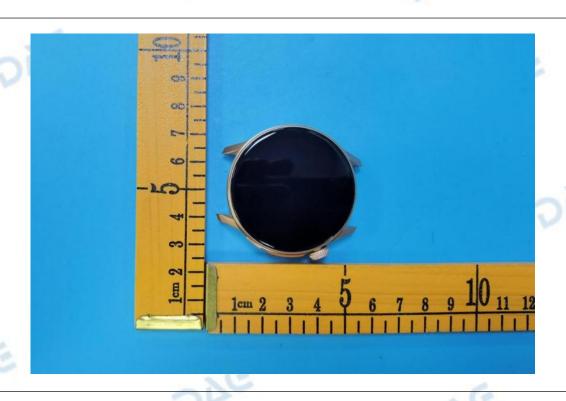
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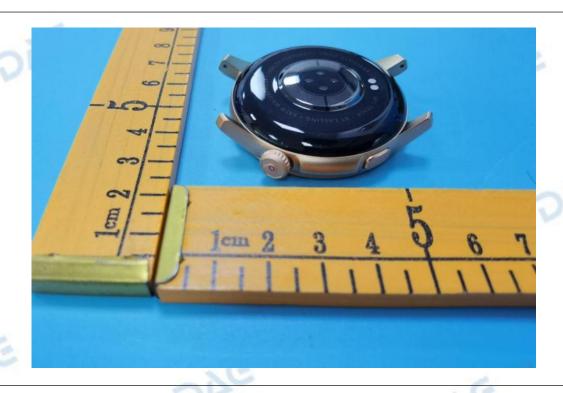
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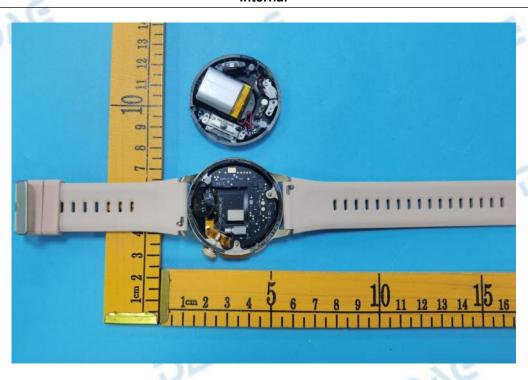








Report No.: DACE250721002RF002





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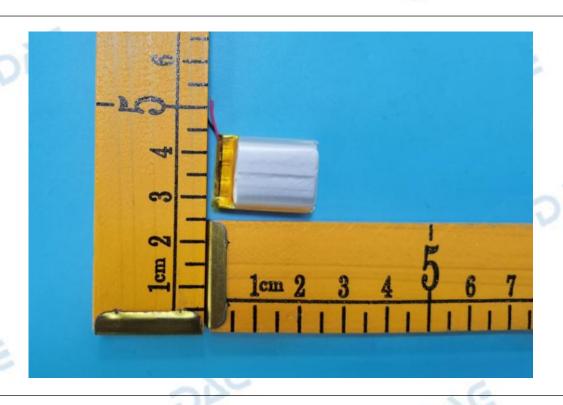
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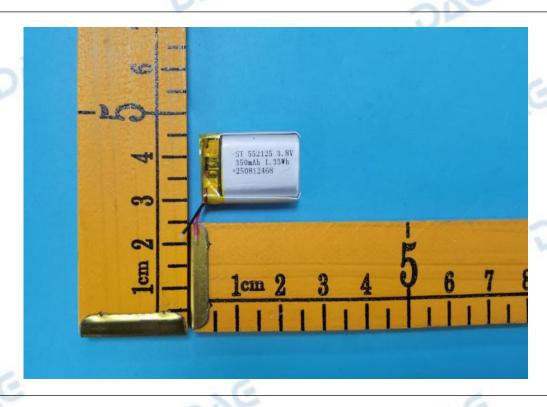
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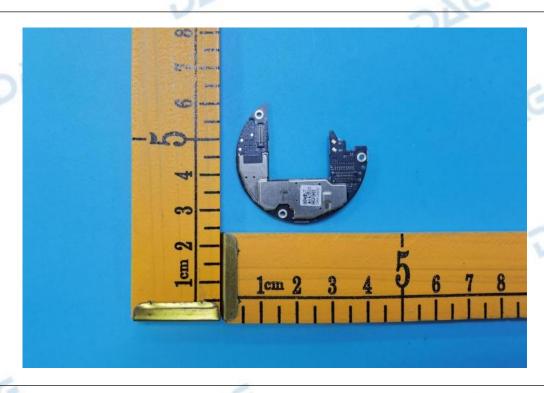




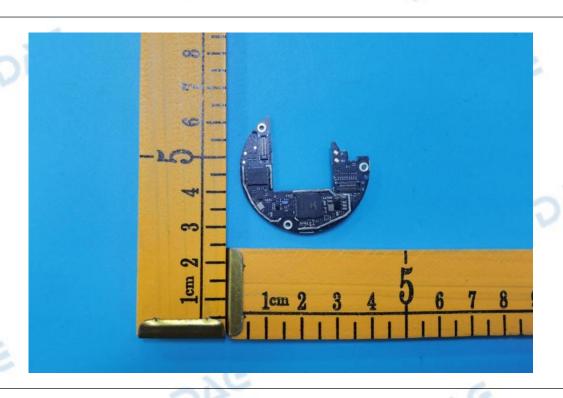


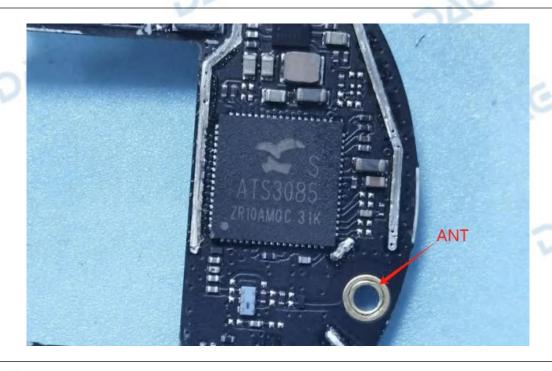












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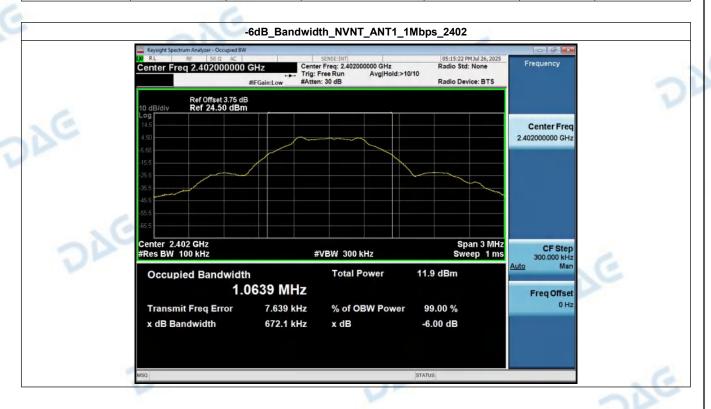
Appendix

Report No.: DACE250721002RF002

1. -6dB Bandwidth

V1.0

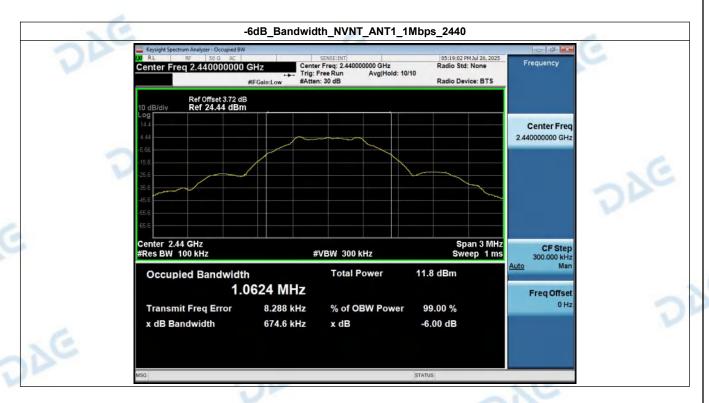
Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	1Mbps	2402.00	672.08	500	Pass
NVNT	ANT1	1Mbps	2440.00	674.59	500	Pass
NVNT	ANT1	1Mbps	2480.00	673.41	500	Pass
NVNT	ANT1	2Mbps	2402.00	1153.04	500	Pass
NVNT	ANT1	2Mbps	2440.00	1150.72	500	Pass
NVNT	ANT1	2Mbps	2480.00	1154.23	500	Pass



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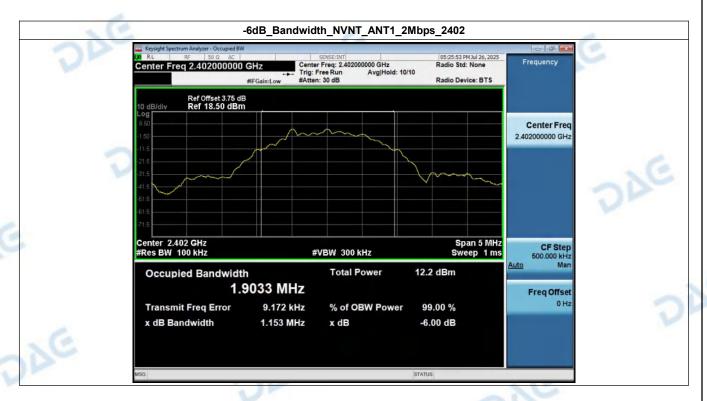






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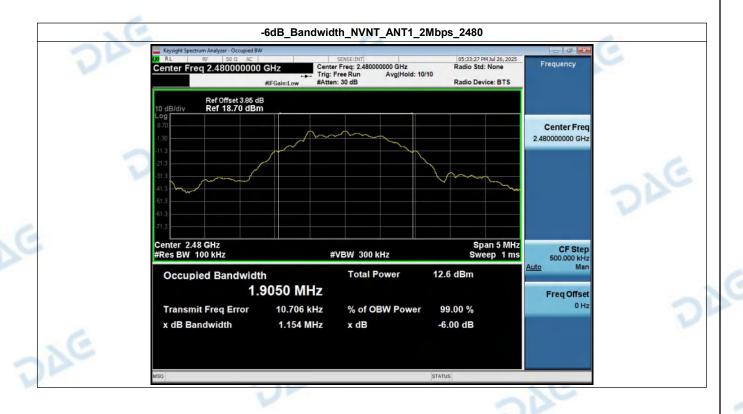
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V1.0



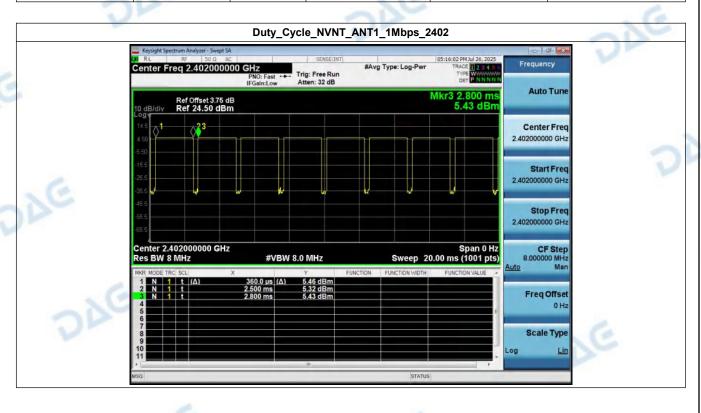
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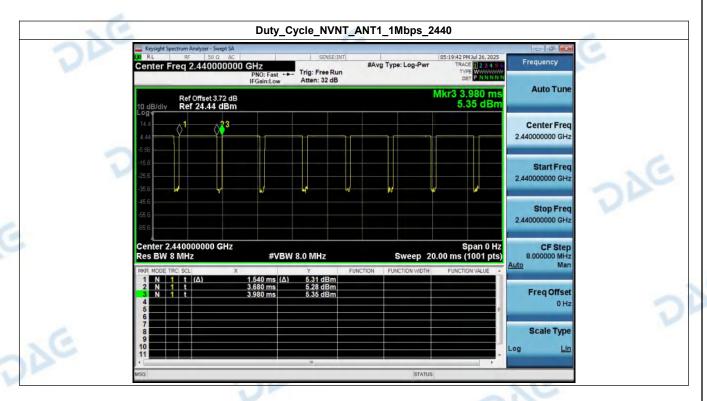
2. Duty Cycle

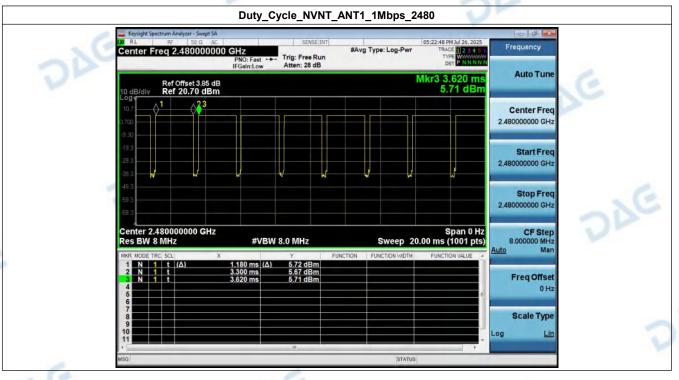
Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1Mbps	2402.00	88.52	0.53
NVNT	ANT1	1Mbps	2440.00	88.52	0.53
NVNT	ANT1	1Mbps	2480.00	87.70	0.57
NVNT	ANT1	2Mbps	2402.00	77.14	1.13
NVNT	ANT1	2Mbps	2440.00	78.57	1.05
NVNT	ANT1	2Mbps	2480.00	79.71	0.98



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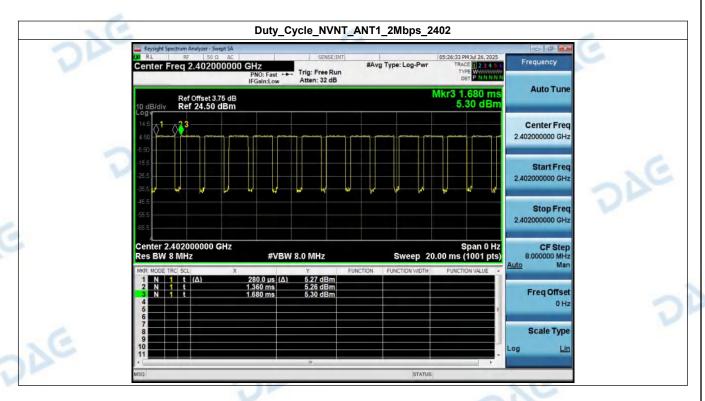
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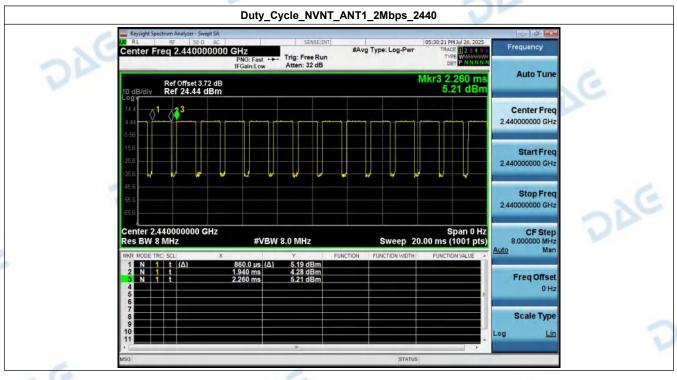
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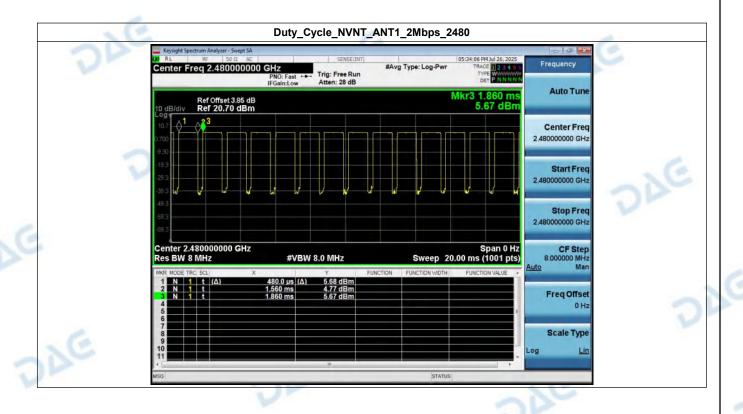


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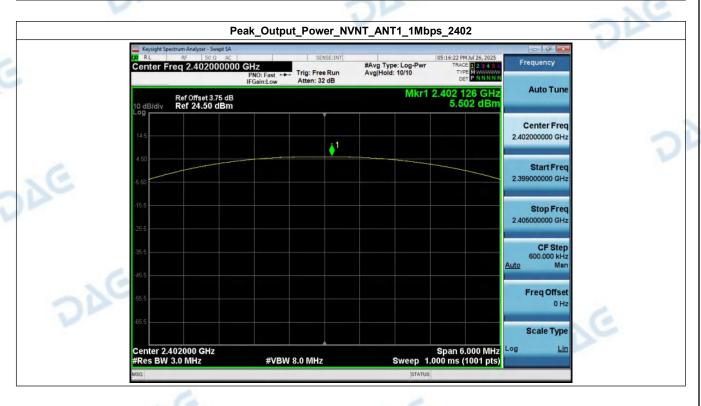
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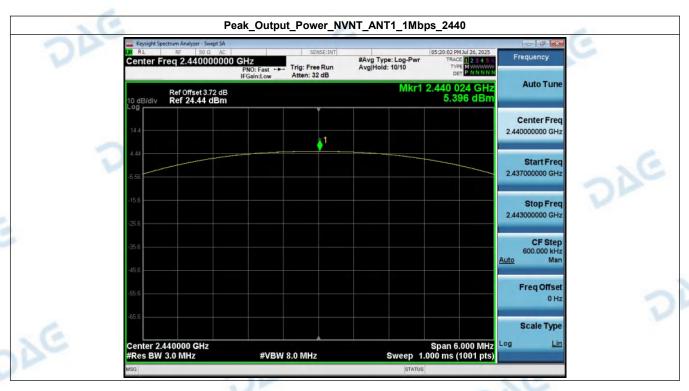
Report No.: DACE250721002RF002

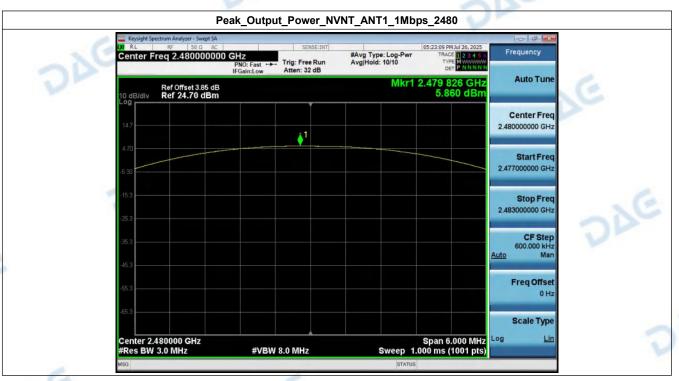
3. Peak Output Power

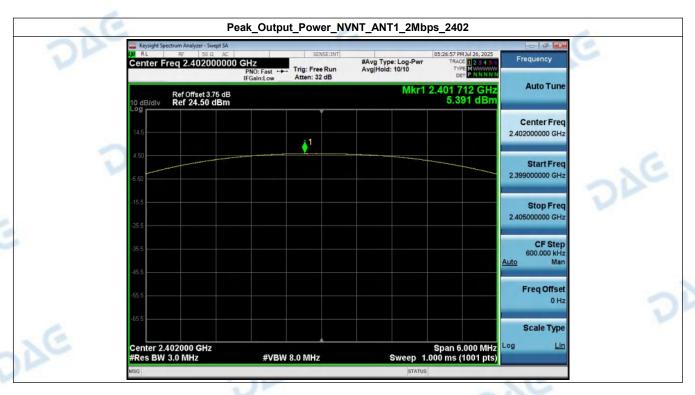
Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1Mbps	2402.00	5.50	3.55	1000	Pass
NVNT	ANT1	1Mbps	2440.00	5.40	3.46	1000	Pass
NVNT	ANT1	1Mbps	2480.00	5.86	3.85	1000	Pass
NVNT	ANT1	2Mbps	2402.00	5.39	3.46	1000	Pass
NVNT	ANT1	2Mbps	2440.00	5.29	3.38	1000	Pass
NVNT	ANT1	2Mbps	2480.00	5.81	3.81	1000	Pass

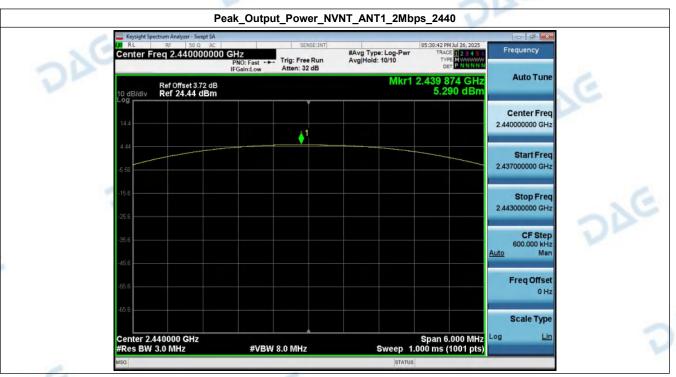


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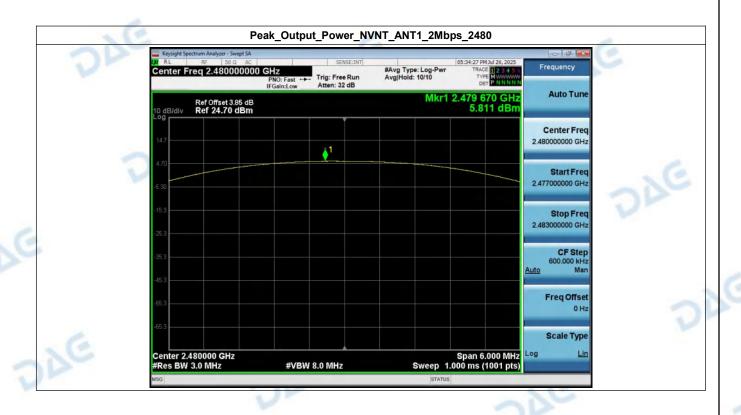


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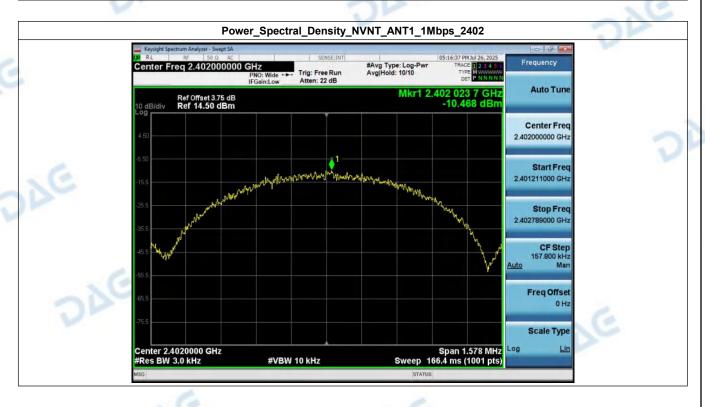
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4. Power Spectral Density

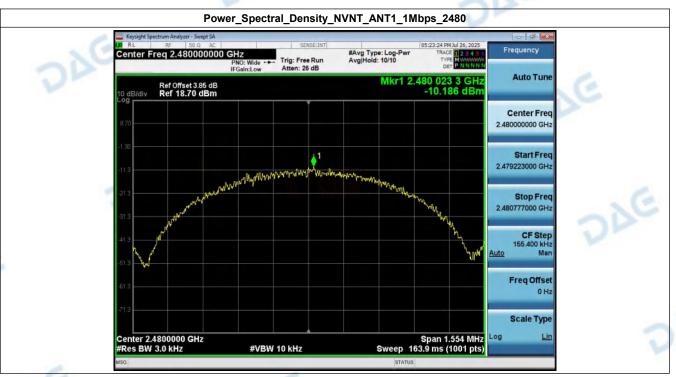
Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm/3kHz)	Limit(dBm/3kHz)	Result
NVNT	ANT1	1Mbps	2402.00	-10.47	8	Pass
NVNT	ANT1	1Mbps	2440.00	-10.78	8	Pass
NVNT	ANT1	1Mbps	2480.00	-10.19	8	Pass
NVNT	ANT1	2Mbps	2402.00	-93.74	8	Pass
NVNT	ANT1	2Mbps	2440.00	-13.66	8	Pass
NVNT	ANT1	2Mbps	2480.00	-13.24	8	Pass

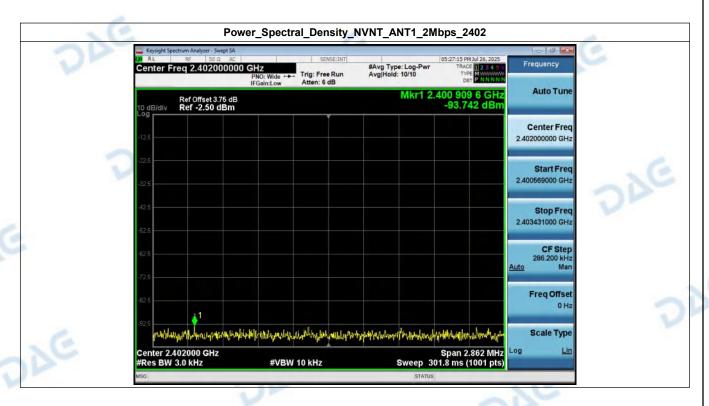
Report No.: DACE250721002RF002

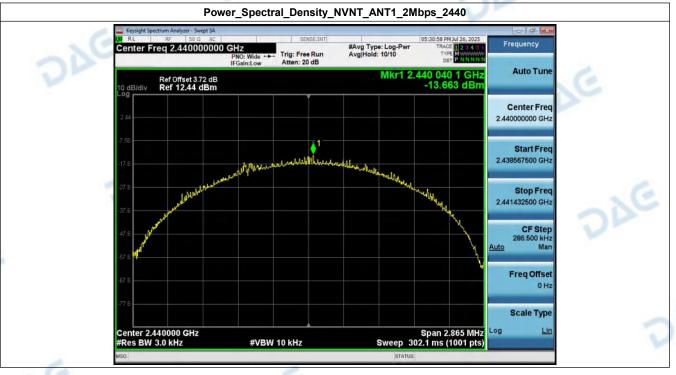


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V1.0



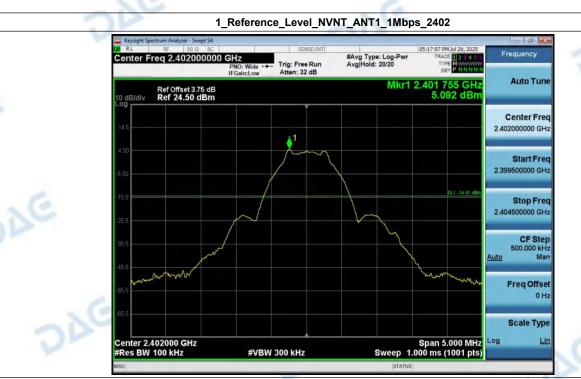
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5. Bandedge

V1.0

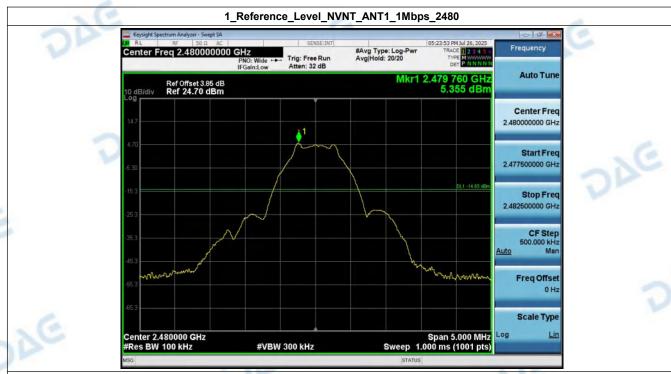
Condition	Antenna	Modulation	TX_Frequency (MHz)	Max. Mark_freq(MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	2399.965	5.092	-49.363	-14.908	Pass
NVNT	ANT1	1Mbps	2480.00	2483.625	5.355	-54.245	-14.645	Pass
NVNT	ANT1	2Mbps	2402.00	2399.965	4.206	-34.630	-15.794	Pass
NVNT	ANT1	2Mbps	2480.00	2483.525	4.578	-57.036	-15.422	Pass



2_Bandedge_NVNT_ANT1_1Mbps_2402



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2_Bandedge_NVNT_ANT1_1Mbps_2480

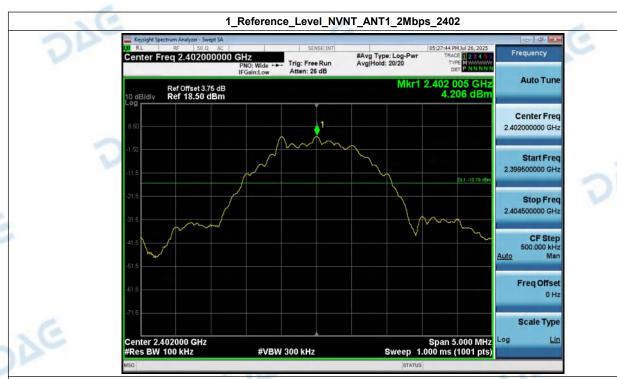


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2_Bandedge_NVNT_ANT1_2Mbps_2402







2_Bandedge_NVNT_ANT1_2Mbps_2480



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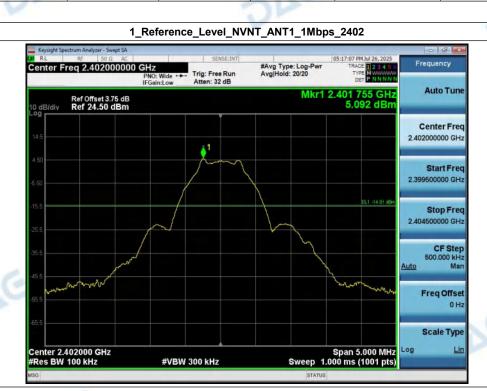
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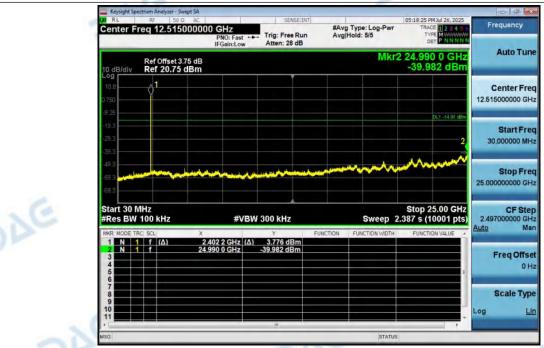
6. Spurious Emission

V1.0

Condition	Antenna	Modulation	TX_Frequency (MHz)	Ref_level(dBm)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402.00	5.092	-39.982	-14.908	Pass
NVNT	ANT1	1Mbps	2440.00	4.996	-40.625	-15.004	Pass
NVNT	ANT1	1Mbps	2480.00	5.355	-40.978	-14.645	Pass
NVNT	ANT1	2Mbps	2402.00	4.206	-47.537	-15.794	Pass
NVNT	ANT1	2Mbps	2440.00	4.039	-48.012	-15.961	Pass
NVNT	ANT1	2Mbps	2480.00	4.578	-47.477	-15.422	Pass



2_Spurious_Emission_NVNT_ANT1_1Mbps_2402



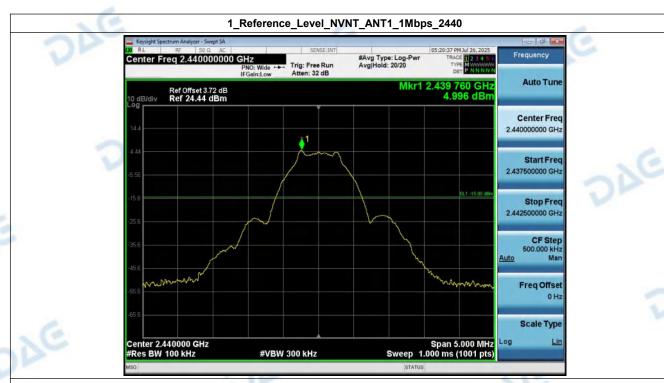
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V1.0

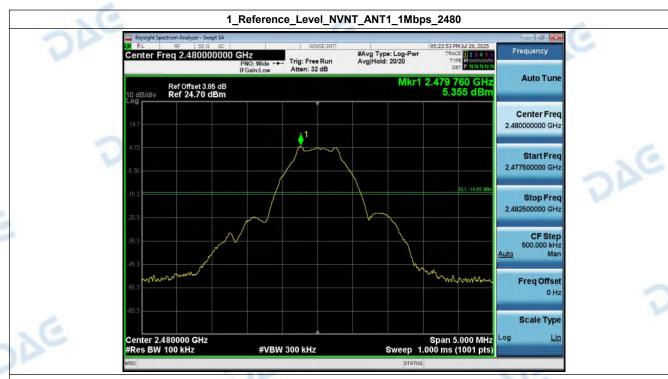


2_Spurious_Emission_NVNT_ANT1_1Mbps_2440



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2_Spurious_Emission_NVNT_ANT1_2Mbps_2402





2_Spurious_Emission_NVNT_ANT1_2Mbps_2440



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