

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Wi-Fi Stick

Model No.:

EESW-BU00, EESW-BU01, EESW-BU02, EESW-BU03, EESW-BU04, EESW-BU05, EESW-BU06, EESW-BU07, EESW-B400, EESW-B401

FCC ID: 2BAGJ-EESWBU05

Trademark: Genetic Connection Creates value

Report No.: E01A23021023F00302

Issue Date: March 21, 2023

Prepared for

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TRF No.: 01-R001-3A-WIFI

TRF Originator: GTG Web: www.gtggroup.com E-mail: info@gtggroup.com

TRF Date: 2022-06-29 Tel.: 86-400 755 8988

VERIFICATION OF COMPLIANCE

Applicant:	Chengdu E-LINTER Information Technology Co., Ltd. Floor 9, Building 10, No.399 West Section of Fucheng Aven. , Chengdu, Sichuan, China.
Manufacturer:	Chengdu E-LINTER Information Technology Co., Ltd. Floor 9, Building 10, No.399 West Section of Fucheng Aven. , Chengdu, Sichuan, China
Product Description:	Wi-Fi Stick
Model/Type reference:	EESW-BU00, EESW-BU01, EESW-BU02, EESW-BU03, EESW-BU04, EESW-BU05, EESW-BU06, EESW-BU07, EESW-B400, EESW-B401 (There is no difference except for the model name , so we performed on the model EESW-BU05)
Trade Mark:	Connection creates value
Model Number:	EESW-BU05
Sample number:	A23021023 018

We hereby certify that:

The above equipment was tested by Dong Guan Anci Electronic Technology Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.247(2022).



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Modified Information

Versio n	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	E01A23021023F00302

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21023F00302

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1. General Information

1.1 Product Description

Characteristics	Description
Product Name	Wi-Fi Stick
Model number	EESW-BU05
Power Supply	DC 5V
Test Power Supply	DC 5V from PC
Modulation	802.11b: DSSS(DBPSK/DQPSK/CCK) 802.11g/n: OFDM(BPSK/QPSK/16QAM/64QAM)
Operating Frequency Range	2412-2462MHz for 802.11b/g; 2412-2462MHz for 802.11n(HT20); 2422-2452MHz for 802.11n(HT40);
Number of Channels	11 channels for 802.11b/g; 11 channels for 802.11n(HT20); 7 channels for 802.11n(HT40);
Transmit Power Max	802.11b: 12.72dBm 802.11g: 10.99dBm 802.11n(HT20): 10.97dBm 802.11n(HT40): 10.43dBm
Antenna Type	Internal PCB antenna
Antenna Gain	3.75dBi
Sample receipt date	March 2, 2023

Note: for more details, please refer to the User's manual of the EUT.

1.2 Test Methodology

All the test program has follow FCC new test procedure KDB 558074 D01 15.247 Meas Guidance v05r02 and in accordance with the procedures given in ANSI C63.10-2013.

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2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.1.2 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. Emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013.

2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

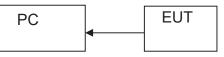


Table 2-1 Equipment Used in Tested System

Item	Equipment	Trademark	Model No.	FCC ID	Note
1.	Wi-Fi Stick		EESW-BU05	2BAGJ-EESWBU05	EUT
2	PC	N/A	PC-1Q9JRC	N/A	Support EUT

Note:

(1) Unless otherwise denoted as EUT in **[**Remark**]** column, device(s) used in tested system is a support equipment.

3. Description of Test Modes

The EUT has been tested under its typical operating condition and Only the worst case data were reported. The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20): MCS0; 802.11n (HT40): MCS0) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting mode is programmed. EUT is connected by com port, and transmit the control instruction via test software(SecureCRT V8.1.4).

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447		

Frequency and Channel list for 802.11 b/g/n (HT20):

Frequency and Channel list for 802.11 n (HT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	5	2432	8	2447
4	2427	6	2437	9	2452
		7	2442		

Test Frequency and Channel for 802.11 b/g/n (HT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	6	2437	11	2462

Test Frequency and channel for 802.11 n (HT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	6	2437	9	2452

Operated Mode for Worst Duty cycle: Duty Cycle:

				1		
NVNT	b	2412	Ant1	100	0	0
NVNT	b	2437	Ant1	100	0	0
NVNT	b	2462	Ant1	100	0	0
NVNT	g	2412	Ant1	100	0	0
NVNT	g	2437	Ant1	100	0	0
NVNT	g	2462	Ant1	100	0	0
NVNT	n20	2412	Ant1	100	0	0
NVNT	n20	2437	Ant1	100	0	0
NVNT	n20	2462	Ant1	100	0	0
NVNT	n40	2422	Ant1	100	0	0
NVNT	n40	2437	Ant1	100	0	0
NVNT	n40	2452	Antl	100	0	0

All the modulation modes were tested, the data of the mode are recorded in the following pages:

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		Duty (Test Gi Cycle NVNT		Iz Ant1			
Spectrum	ſ	Duty C	.,	5 2 1121711				Ē
Ref Level 20.0	DO dBm Offs	et 2.02 dB 🖷	RBW 1 MHz					(
Att	30 dB 👜 SW1	7 20 ms 🖷	VBW 3 MHz					
SGL 1Pk Clrw								
				M1	[1]			8.65 dB
10 dBm							1	18/25800 m
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har his character and the	ter anile brille	A BULL AND A BULL	AND DESCRIPTION	and the first		and the state	THE PARTY	TANK TO SHOP
-10 dBm						-		
-20 dBm								
-30 dBm								
-40 dBm								
-50 dBm								-
-60 dBm		_						-
-70 dBm								
CF 2.412 GHz			10001	nte				2.0 ms/
Marker			10001	prs				2.0 ms
Type Ref Tr	c X-va	lue	Y-value	Functi	ion	Fun	ction Resu	lt
							4.00	CONTRACTOR OF A
ate: 15.MAR.20	23 14:07:45				a dy		449	
ate: 15.MAR.20	23 14:07:45	Duty	Svala NX/NIT		Ta Ant1		4/0	- Construction
	23 14:07:45	Duty C	Cycle NVNT	b 2437MH	Iz Ant1		4/0	
Spectrum	1	•	•	b 2437MH	Iz Ant1		4/0	
Spectrum Ref Level 20.0	1	et 2.03 dB 🖷	Cycle NVNT	b 2437MH	Iz Ant1		449	
Spectrum Ref Level 20.0 Att SGL	D0 dBm Offs	et 2.03 dB 🖷	RBW 1 MHz	b 2437MH	Iz Ant1		1440	
Spectrum Ref Level 20.0 Att SGL	D0 dBm Offs	et 2.03 dB 🖷	RBW 1 MHz				. 198	
Spectrum Ref Level 20.0 Att SGL 1Pk Clrw	00 dBm Offs 30 dB ● SW1	et 2.03 dB 20 ms	RBW 1 MHz VBW 3 MHz	M1	[1]		M1	
Spectrum Ref Level 20.0 SGL 1Pk Cirw	00 dBm Offs 30 dB • Sw1	et 2.03 dB	RBW 1 MHz VBW 3 MHz	M1	[1]	الله المعرية (المعرية) المالي الم	Wildlaught Mil	11.70 dB
Spectrum Ref Level 20.0 SGL 1Pk Cirw	00 dBm Offs 30 dB • Sw1	et 2.03 dB	RBW 1 MHz VBW 3 MHz	M1	[1]	المراجعين مراجع عود عن عربي مراجع	Wildlaught Mil	11.70 dB
Spectrum Ref Level 20.0 Att SGL 1Pk Clrw	00 dBm Offs 30 dB • Sw1	et 2.03 dB	RBW 1 MHz VBW 3 MHz	M1	[1]	114-14(1-14) -14(1-4)	Wildlaught Mil	11.70 dB
Spectrum Ref Level 20.0 Att SGL 1Pk Clrw	00 dBm Offs 30 dB • Sw1	et 2.03 dB	RBW 1 MHz VBW 3 MHz	M1	[1]	1141(())()() 1141(())()()	Wildlaught Mil	11.70 dBi
Spectrum Ref Level 20.0 Att SGL 1Pk Clrw	00 dBm Offs 30 dB • Sw1	et 2.03 dB	RBW 1 MHz VBW 3 MHz	M1	[1]	T Let (Leers) and a full	Wildlaught Mil	11.70 dBi
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Spectrum Ref Level 20.0 Att SGL IPk Clrw II of the state	00 dBm Offs 30 dB • Sw1	et 2.03 dB	RBW 1 MHz VBW 3 MHz	M1	[1]		Wildlaught Mil	11.70 dBi
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Spectrum Ref Level 20.0 Att SGL 1Pk Clrw IPk Clrw Oddm -10 dBm -20 dBm -30 dBm -60 dBm -70 dBm -70 dBm	00 dBm Offs 30 dB • Sw1	et 2.03 dB	RBW 1 MHz VBW 3 MHz		[1]		W. Hill and the	11.70 dB 16.22600 m of an
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Chart				, _,		b 2462M				
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TLU OI	MI					M	1[1]			11.76 dB
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-20 dBm	+									
-30 dBm										
40 dBm	·									
-50 dBm										-
-60 dBm	-							-		
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ite: 15	5.MAR.	.2023 1		Duty Ca	vcle NVNT	ς 2412M	Hz Ant1		4,40	5.82.2023
				Duty Cy	ycle NVNT	g 2412M	Hz Ant1		40	
Specti Ref Le	rum	2023 1	4:17:54 Offset	2.02 dB 🖷	RBW 1 MHz	:	Hz Ant1		40	5.03.2021
Specti Ref Lo Att	rum	2023 1	4:17:54	2.02 dB 🖷		:	Hz Ant1		444	5.03.2023
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Specti Ref Lo Att SGL	rum evel 2	2023 1	4:17:54 Offset	2.02 dB 🖷	RBW 1 MHz	:	Hz Ant1		640	5.54 dB
Spect Ref Lo Att SGL 1Pk Ch	rum evel 2 rw	2023 1	4:17:54 Offset	2.02 dB 🖷	RBW 1 MHz	:			18	5.54 dB
Spect Ref Lo SGL 1Pk Cli 10 dBm	rum evel 2 rw	2023 1	0ffset ● SWT	2.02 dB • 20 ms •	RBW 1 MH2 VBW 3 MH2	M	1[1]	pt bot fan fabri		5.54 dB .43200 n
Spect Ref Lo SGL 1Pk Cli 10 dBm	rum evel 2 rw	2023 1	0ffset ● SWT	2.02 dB • 20 ms •	RBW 1 MH2 VBW 3 MH2	M	1[1]			5.54 dB .43200 n
Spect Ref Lo Att SGL 1Pk Ch	rum evel 2 rw	2023 1	0ffset ● SWT	2.02 dB • 20 ms •	RBW 1 MH2 VBW 3 MH2	M	1[1]			5.54 dB .43200 n
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Spectr Ref Lo Att SGL 1Pk Ch 10 dBm -10 dBm -20 dBm -30 dBm	rum evel 2 rw	2023 1	0ffset ● SWT	2.02 dB • 20 ms •	RBW 1 MH2 VBW 3 MH2	M	1[1]			5.54 dB .43200 n
Spectr Ref Lo Att SGL 1Pk Ch 10 dBm -10 dBm -20 dBm -30 dBm	rum evel 2 rw	2023 1	0ffset ● SWT	2.02 dB • 20 ms •	RBW 1 MH2 VBW 3 MH2	M	1[1]			5.54 dB .43200 n
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Spectr Ref Lo Att SGL 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm		2023 1	0ffset ● SWT	2.02 dB • 20 ms •	RBW 1 MH2 VBW 3 MH2	M	1[1]			5.54 dB .43200 n
Spectra Ref Lo Att SGL 1Ph Ch 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm		2023 1	0ffset ● SWT	2.02 dB • 20 ms •	RBW 1 MH2 VBW 3 MH2	M	1[1]			5.54 dB .43200 n
Spectra Ref Lo Att SGL 1Ph Ch 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm		2023 1	0ffset ● SWT	2.02 dB • 20 ms •	RBW 1 MH2 VBW 3 MH2	M	1[1]			5.54 dB .43200 n
Spectr Ref Lo Att SGL 1Pk Cl 10 dBm -10 dBm -20 dBm -20 dBm -40 dBm -60 dBm -60 dBm -60 dBm -70 dBm		2023 1	0ffset ● SWT	2.02 dB • 20 ms •	RBW 1 MH2 VBW 3 MH2		1[1]			5.54 dB .43200 n
Spectra Ref Lo Att SGL 1PR Cli 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm		2023 1 20.00 dBm 30 dB 20.00 dBm 30 dB	Offset SWT	2.02 dB • 20 ms •	RBW 1 MH2 VBW 3 MH2	M M M M M M M M M M M M M M M M M M M			<u> </u>	5.54 dB .43200 n
Spectr Ref Le Att SGL 1Pk Ch 10 dBm -10 dBm -20 dBm -30 dBm		2023 1 20.00 dBm 30 dB 20.00 dBm 30 dB	offset SWT	2.02 dB • 20 ms •	RBW 1 MH2 VBW 3 MH2	1 pts				5.54 dB .43200 n

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		_		Duty Cy	ycle NVNT	g 2437M	HZ ANU			6
Spect	rum									
Ref L	evel	20.00 dBn	offset	2.03 dB 👄	RBW 1 MHz	ż				
Att		30 de	S 🗑 SWT	20 ms 🖷	VBW 3 MHz	z				
SGL 1Pk Cl	ru.									
IPK CI	1.02					M	1[1]			5.34 dBm
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50 dBm	n-+-					-				
60 dBn										
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F 2.4	37 GH	z			1000	1 pts				2.0 ms/
arker										
Туре	Ref		X-value		Y-value	Func	tion	Fund	ction Resul	t
M1		1	15	.33 ms	5.34 dB					
		57	1000	100 1115	0.04 00	am				
te: 1	5.MAR	.2023 1			ycle NVNT		Hz Ant1		440	15.03.2023
Spect	rum		4:22:16	Duty Cy	ycle NVNT	g 2462M	Hz Ant1		640	
Spect Ref L	rum	20.00 dBn	4:22:16 n Offset	Duty Cy 2.04 dB ●	ycle NVNT RBW 1 MH2	<u>g</u> 2462M	Hz Ant1		4,46A	(T
Spect Ref Li Att	rum	20.00 dBn	4:22:16	Duty Cy 2.04 dB ●	ycle NVNT	<u>g</u> 2462M	Hz Ant1		AJA	(
Spect Ref L Att SGL	rum evel	20.00 dBn	4:22:16 n Offset	Duty Cy 2.04 dB ●	ycle NVNT RBW 1 MH2	<u>g</u> 2462M	Hz Antl		440	(533202)
Spect Ref L Att SGL	rum evel	20.00 dBn	4:22:16 n Offset	Duty Cy 2.04 dB ●	ycle NVNT RBW 1 MH2	g 2462M	Hz Antl		440	5.36 dBn
Spect Ref Li Att SGL 01Pk Cl	rum evel	20.00 dBn	4:22:16 n Offset	Duty Cy 2.04 dB ●	ycle NVNT RBW 1 MH2	g 2462M			440 1	5.36 dBn
Spect Ref L SGL 1Pk Cl	rum evel	20.00 dBn 30 dB	4:22:16 n Offset	Duty Cy 2.04 dB • 20 ms •	ycle NVNT RBW 1 MH2 VBW 3 MH2	g 2462M	1[1]			5.36 dBn 1.89800 m
Spect Ref L SGL 1Pk Cl	rum evel	20.00 dBn 30 dB	4:22:16	Duty Cy 2.04 dB • 20 ms •	ycle NVNT RBW 1 MH2 VBW 3 MH2	g 2462M	1[1]			5.36 dBn 1.89800 ms
Spect Ref L Att SGL 1Pk Cl	rum evel	20.00 dBn 30 dB	4:22:16	Duty Cy 2.04 dB • 20 ms •	ycle NVNT RBW 1 MH2 VBW 3 MH2	g 2462M	1[1]			5.36 dBn 1.89800 ms
Spect Ref L Att SGL 1Pk Cl	rum evel	20.00 dBn 30 dB	4:22:16	Duty Cy 2.04 dB • 20 ms •	ycle NVNT RBW 1 MH2 VBW 3 MH2	g 2462M	1[1]			5.36 dBn 1.89800 ms
Spect Ref Lo SGL 1Pk Cl 0 dBm	rum evel	20.00 dBn 30 dB	4:22:16	Duty Cy 2.04 dB • 20 ms •	ycle NVNT RBW 1 MH2 VBW 3 MH2	g 2462M	1[1]			5.36 dBn 1.89800 ms
Spect Ref L SGL 1Pk Cl 0 dBm 10 dBm 20 dBm	rum evel	20.00 dBn 30 dB	4:22:16	Duty Cy 2.04 dB • 20 ms •	ycle NVNT RBW 1 MH2 VBW 3 MH2	g 2462M	1[1]			5.36 dBn 1.89800 ms
Spect Ref L SGL 1Pk Cl 10 dBm 10 dBm 20 dBm	rum evel	20.00 dBn 30 dB	4:22:16	Duty Cy 2.04 dB • 20 ms •	ycle NVNT RBW 1 MH2 VBW 3 MH2	g 2462M	1[1]			5.36 dBn 1.89800 ms
Spect Ref Lo SGL 1Pk Cl 10 dBm 10 dBm 20 dBm	rum evel	20.00 dBn 30 dB	4:22:16	Duty Cy 2.04 dB • 20 ms •	ycle NVNT RBW 1 MH2 VBW 3 MH2	g 2462M	1[1]			5.36 dBn 1.89800 ms
Spect Ref Lo SGL 1Pk Cl 10 dBm 10 dBm 20 dBm	rum evel	20.00 dBn 30 dB	4:22:16	Duty Cy 2.04 dB • 20 ms •	ycle NVNT RBW 1 MH2 VBW 3 MH2	g 2462M	1[1]			5.36 dBn 1.89800 ms
Spect Ref Li SGL 1Pk Cl 0 dBm 10 dBm 20 dBm 30 dBm	rum evel : mprojection n	20.00 dBn 30 dB	4:22:16	Duty Cy 2.04 dB • 20 ms •	ycle NVNT RBW 1 MH2 VBW 3 MH2	g 2462M	1[1]			5.36 dBn 1.89800 ms
Spect Ref Li SGL 1Pk Cl 0 dBm 20 dBm 20 dBm 40 dBm 50 dBm		20.00 dBn 30 dB	4:22:16	Duty Cy 2.04 dB • 20 ms •	ycle NVNT RBW 1 MH2 VBW 3 MH2	g 2462M	1[1]			5.36 dBn 1.89800 ms
Spect Ref Li SGL 1Pk Cl 0 dBm 20 dBm 20 dBm 40 dBm 50 dBm		20.00 dBn 30 dB	4:22:16	Duty Cy 2.04 dB • 20 ms •	ycle NVNT RBW 1 MH2 VBW 3 MH2	g 2462M	1[1]			5.36 dBm 1.89800 ms
Spect Ref Li Att SGL 1Pk Cl 10 dBm 10 dBm 20 dBm 30 dBm 30 dBm 40 dBm 60 dBm		20.00 dBn 30 dB	4:22:16	Duty Cy 2.04 dB • 20 ms •	ycle NVNT RBW 1 MH2 VBW 3 MH2	g 2462M	1[1]			5.36 dBn 1.89800 ms
Spect Ref Li SGL 11Pk Cl 0 dBm 20 dBm 30 dBm 40 dBm 50 dBm		20.00 dBn 30 dB	4:22:16	Duty Cy 2.04 dB • 20 ms •	ycle NVNT RBW 1 MH2 VBW 3 MH2	g 2462M	1[1]			5.36 dBn 1.89800 m
Spect Ref Li SGL 1PR Cl 10 dBm 20 dBm 30 dBm 40 dBm 50 dBm 60 dBm		20.00 dBn 30 dB	4:22:16	Duty Cy 2.04 dB • 20 ms •	ycle NVNT RBW 1 MH2 VBW 3 MH2	E 2462MI	1[1]			5.36 dBn 1.89800 m 1.69800 m 1.69800 m 1.69800 m 1.6900 m 1.69000 m 1.69000 m 1.69000 m 1.69000 m 1.69000 m 1.69000 m 1.
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Spectrum Ref Level Att SGL	20.00 dB	m Offse	et 2.03 dB	RBW 1 MH2	1	1Hz Ant	1		7.11 dBr
Spectrum Ref Level Att SGL 1Pk Clrw	20.00 dBi 30 d	m Offse B SWT	et 2.03 dB 20 ms	RBW 1 MHz VBW 3 MHz	M	1[1]	- [7.11 dBr 4.15400 m
Spectrum Ref Level Att SGL 1Pk Clrw	20.00 dB 30 d	m Offse B SWT	20 ms	RBW 1 MH2 VBW 3 MH2	M Mana da na sa	1[1]			7.11 dBr 4.15400 m
Spectrum Ref Level Att SGL 1Pk Clrw	20.00 dB 30 d	m Offse B SWT	20 ms	RBW 1 MHz VBW 3 MHz	M Mana da na sa	1[1]			7.11 dBr 4.15400 m
Spectrum Ref Level Att SGL 1Pk Clrw	20.00 dB 30 d	m Offse B SWT	20 ms	RBW 1 MH2 VBW 3 MH2	M Mana da na sa	1[1]			7.11 dBr 4.15400 m
Spectrum Ref Level Att SGL 11Pk Clrw L0 dBm	20.00 dB 30 d	m Offse B SWT	20 ms	RBW 1 MH2 VBW 3 MH2	M Mana da na sa	1[1]			7.11 dBr 4.15400 m
Spectrum Ref Level Att SGL 11Pk Clrw L0 dBm	20.00 dB 30 d	m Offse B SWT	20 ms	RBW 1 MH2 VBW 3 MH2	M Mana da na sa	1[1]			7.11 dBr 4.15400 m
Spectrum Ref Level Att SGL 1Pk Clrw 10 dBm 10 dBm 20 dBm	20.00 dB 30 d	m Offse B SWT	20 ms	RBW 1 MH2 VBW 3 MH2	M Mana da na sa	1[1]	and a state of the		7.11 dBr 4.15400 m
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Spectrum Ref Level Att SGL 19k Clrw 10 dBm 10 dBm 20 dBm 30 dBm	20.00 dB 30 d	m Offse B SWT	20 ms	RBW 1 MH2 VBW 3 MH2	M Mana da na sa	1[1]	and a state of the		7.11 dBr 4.15400 m
Spectrum Ref Level Att SGL 1Pk Clrw 0 dBm 10 dBm 20 dBm 40 dBm	20.00 dB 30 d	m Offse B SWT	20 ms	RBW 1 MH2 VBW 3 MH2	M Mana da na sa	1[1]	and a state of the		7.11 dBr 4.15400 m
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Spectrum Ref Level Att SGL 1Pk Clrw 10 dBm 20 dBm 30 dBm 40 dBm 60 dBm	20.00 dB 30 d	m Offse B SWT	20 ms	RBW 1 MH2 VBW 3 MH2	M Mana da na sa	1[1]	and a state of the		7.11 dBr 4.15400 m
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Spectrum Ref Level Att SGL 11Pk Clrw 10 dBm 10 dBm 20 dBm 30 dBm 30 dBm 50 dBm 60 dBm 70 dBm 70 dBm	20.00 dBi 30 d	m Offse B SWT	at 2.03 dB 20 ms	RBW 1 MH2 VBW 3 MH2	M				7.11 dBr 4.15400 m
Att SGL 1Pk Clrw 10 dBm	20.00 dBi 30 d	m Offse B SWT	at 2.03 dB 20 ms	RBW 1 MH2 VBW 3 MH2	M				7.11 dBr 4.15400 m

Duty Cycle NVNT n20 2462MHz Ant1 Spectrum Ref Level 20.00 dBm Offset 2.04 dB 🖷 RBW 1 MHz 30 dB 👜 SWT Att 20 ms 🖷 VBW 3 MHz SGL 1Pk Clrw M1[1] 7.09 dBm 5.27200 ms M1 مادر الملاحظ المراجع 10 dBm-الارام والرزيان في الارب الجرار ووالا الروام والارب المراجع الروام والمراجع de la la la - distributed 14.11 .1 والتحرك الألار وتدريك إيلار أطرا الدوالي والريبال -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm-CF 2.462 GHz 10001 pts 2.0 ms/ Marker Function Type | Ref | Trc | Y-value 7.09 dBm X-value **Function Result** 5.272 ms M1 1 110 Date: 15.MAR.2023 14:32:18 Duty Cycle NVNT n40 2422MHz Ant1 Spectrum Ref Level 20.00 dBm Offset 2.02 dB 🖷 RBW 1 MHz 30 dB 👄 SWT 20 ms 🖝 VBW 3 MHz Att SGL 1Pk Clrw 0.84 dBn 19.93200 ms M1[1] 10 dBm-R dBmitt - Madin ALL C i.t. -10 dBm-11 / A Road And -20 dBm -30 dBm 40 dBm -50 dBm -60 dBm -70 dBm-2.0 ms/ 10001 pts CF 2,422 GHz Marker Type | Ref | Trc | X-value Function Function Result Y-value 19.932 ms 0.84 dBm M1 1 100 Date: 15.MAR.2023 14:34:57

นั่น เมื่ออย่าน เชิง	B e SWT	2.04 dB 20 ms 20 m	RBW 1 MH	z	.[1] offerfineda and new pf		nction Res	0.83 dBr 11.93200 m 40 m/14 0.94 11.93200 m 40 m/14 0.94 10 m/14 0.94
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20.00 dBn 30 dB	B e SWT	2.04 dB 20 ms	RBW 1 MH VBW 3 MH	Z Z M1	[1]			0.83 dBr 11.93200 m
20.00 dBn 30 dB	B e SWT	2.04 dB 20 ms	RBW 1 MH VBW 3 MH	Z Z M1	[1]			0.83 dBi 11.93200 m
20.00 dBn 30 dB	B e SWT	2.04 dB 20 ms	RBW 1 MH VBW 3 MH	Z Z M1	[1]		14 (Long-1-14) 14 (Long-1-14) 14 (Long-14) 14 (Long-14) 1	0.83 dBi 11.93200 m
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FCC Rules	Description Of Test	Result
§15.247(a)(2)	6dB bandwidth	Pass
§15.247(b)(3)	Max Peak output Power test	Pass
§15.247(e)	Power density	Pass
§15.247(d)	Band edge test	Pass
§15.207	AC Power Conducted Emission	Pass
§15.247(d), §15.209	Radiated Emission	Pass
§15.247(d)	Antenna Port Emission	Pass
§15.247(b)&§15.203	Antenna Application	Pass
N/A (Not Applicable).		

4. Summary of Test Results

TRF No.: 01-R001-3A-WIFI

5. Test Facility

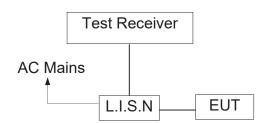
Site Description EMC Lab.	:	Accredited by FCC, May 30, 2019 Designation Number: CN1230 Test Firm Registration Number: 991798
Name of Firm Site Location		Dong Guan Anci Electronic Technology Co., Ltd. 1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan, Lake Hi-tech Industrial Development Zone, Dongguan City, Guangdong Pr., China.

6. Conducted Emissions Test

6.1 Measurement Procedure:

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured was complete.

6.2 Test SET-UP (Block Diagram of Configuration)



6.3 Measurement Equipment Used:

Item	EQUIPMENT	MFR	MODEL	SERIAL	Calibrated until
nem	TYPE		NUMBER	NUMBER	
1.	LISN	ROHDE&SCHWAR Z	ENV216	101413	2023-10-07
2.	RF Cable	N/A	ZT06S-NJ-NJ- 2.5M	19044022	2023-05-12
3.	EMI Test Receiver	ROHDE&SCHWAR Z	ESCI	101358	2023-05-12
4.	1# Shielded Room	chengyu	8m*4m*3.3m	N/A	2025-11-21
5.	Test Software	Farad	EZ-EMC (Ver.ANCI-3A1)	N/A	N/A

6.4 Conducted Emission Limit

(7) Conducted Emission Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

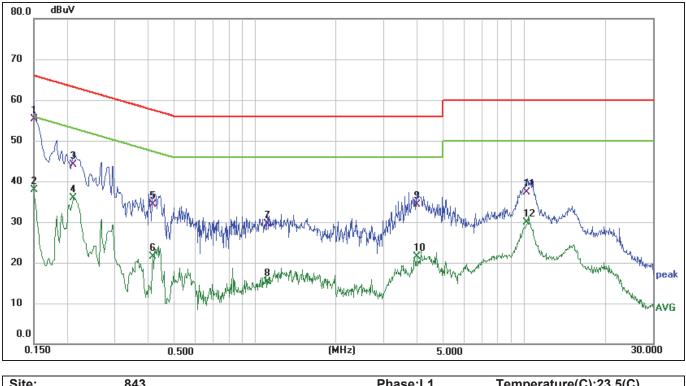
Note:

1. The lower limit shall apply at the transition frequencies

2.The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

6.5 Measurement Result:

All the modulation modes were tested the data of the worst mode (802.11 b TX2412) are recorded in the following pages and the others modulation methods do not exceed the limits. Please refer to following pages.



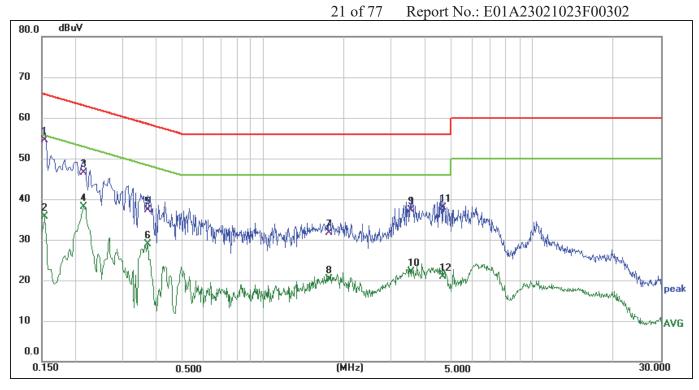
Site:	843	Phase:L1	Temperature(C):23.5(C)
Limit:	FCC PART 15C Conduction(QP)		Humidity(%):52.6%
EUT:	Wi-Fi Stick	Test Time:	2023-03-15 21:18:44
M/N.:	EESW-BU05	Power Rating:	DC 5V
Mode:	WIFI TX2412	Test Engineer:	Sunshine
Note:		-	

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure- ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1 *					<u> </u>	. /	OD	
1	0.1500	45.54	9.83	55.37	66.00	-10.63	QP	
2	0.1500	27.98	9.83	37.81	56.00	-18.19	AVG	
3	0.2100	34.17	9.97	44.14	63.21	-19.07	QP	
4	0.2100	25.92	9.97	35.89	53.21	-17.32	AVG	
5	0.4140	23.66	10.66	34.32	57.57	-23.25	QP	
6	0.4140	10.87	10.66	21.53	47.57	-26.04	AVG	
7	1.1100	19.57	9.96	29.53	56.00	-26.47	QP	
8	1.1100	5.40	9.96	15.36	46.00	-30.64	AVG	
9	3.9900	24.48	9.80	34.28	56.00	-21.72	QP	
10	3.9900	11.65	9.80	21.45	46.00	-24.55	AVG	
11	10.2739	27.24	10.01	37.25	60.00	-22.75	QP	
12	10.2739	19.84	10.01	29.85	50.00	-20.15	AVG	

*:Maximum data x:Over limit !:over margin

TRF No.: 01-R001-3A-WIFI

Global Testing , Great Quality.



Site:	843	Phase:N	Temperature(C):23.5(C)
Limit:	FCC PART 15C Conduction(QP)		Humidity(%):52.6%
EUT:	Wi-Fi Stick	Test Time:	2023-03-15 21:17:16
M/N.:	EESW-BU05	Power Rating:	DC 5V
Mode:	WIFI TX2412	Test Engineer:	Sunshine
Note:		Ū	

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure- ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1 *	0.1539	44.74	9.82	54.56	65.79	-11.23	QP	
2	0.1539	25.83	9.82	35.65	55.79	-20.14	AVG	
3	0.2140	36.53	9.99	46.52	63.05	-16.53	QP	
4	0.2140	28.06	9.99	38.05	53.05	-15.00	AVG	
5	0.3700	26.95	10.40	37.35	58.50	-21.15	QP	
6	0.3700	18.47	10.40	28.87	48.50	-19.63	AVG	
7	1.7620	21.82	9.95	31.77	56.00	-24.23	QP	
8	1.7620	10.35	9.95	20.30	46.00	-25.70	AVG	
9	3.5580	27.28	9.94	37.22	56.00	-18.78	QP	
10	3.5580	12.13	9.94	22.07	46.00	-23.93	AVG	
11	4.6380	28.04	9.96	38.00	56.00	-18.00	QP	
12	4.6380	11.00	9.96	20.96	46.00	-25.04	AVG	

*:Maximum data x:Over limit !:over margin

7. Radiated Emission Test

7.1 Measurement Procedure

1. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane, And above 1000MHz, The EUT was placed on a styrofoam table which is 1.5m above ground plane.

2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.

- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measured was complete.

When spectrum scanned from 30MHz to 1GHz setting resolution bandwidth 120KHz and video bandwidth 300KHz:

EMI Test Receiver	Setting
Attenuation	Auto
RB	120KHz
VB	300KHz
Detector	QP
Trace	Max hold

When spectrum scanned above 1GHz setting resolution bandwidth 1MHz, video bandwidth 3MHz:

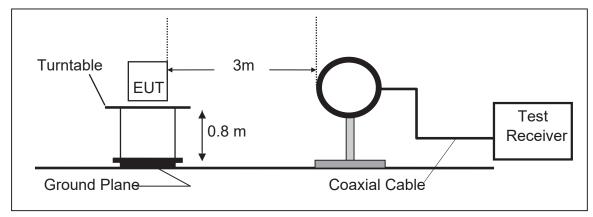
EMI Test Receiver	Setting
Attenuation	Auto
RB	1MHz
VB	3MHz
Detector	Peak
Trace	Max hold

When spectrum scanned above 1GHz setting resolution bandwidth 1MHz, video bandwidth 10Hz:

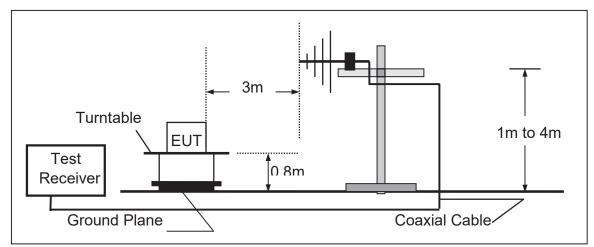
EMI Test Receiver	Setting
Attenuation	Auto
RB	1MHz
VB	10Hz
Detector	Peak
Trace	Max hold

7.2 Test SET-UP (Block Diagram of Configuration)

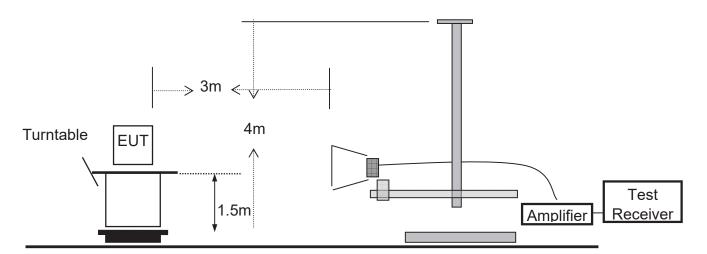
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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7.3 Measurement Equipment Used

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
6.	EMI Test Receiver	Rohde & Schwarz	· ESPI7 100502		2023-10-07
7.	Pre-Amplifier	Anritsu	MH648A	M57886	2023-05-12
8.	Bilog Antenna	Schwarzbeck	VULB9163	VULB9163-1290	2023-12-11
9.	RF Cable	N/A	ZT06S-NJ-NJ- 11M	19060398	2023-05-12
10.	RF Cable	N/A	ZT06S-NJ-NJ- 0.5M	19060400	
11.	RF Cable	N/A ZT06S-NJ-NJ- 2.5M 190		19060404	2023-05-12
12.	Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2023-10-07
13.	Low noise Amplifiers	A-INFO	LA1018N4009	J101313052400 1	2023-05-12
14.	Horn antenna	A-INFO	LB-10180-SF	J203109061212 3	2024-05-14
15.	RF Cable	N/A	ZT26-NJ-NJ-1 1M	19060401	2023-05-12
16.	RF Cable	N/A	ZT26-NJ-NJ-2 .5M	19060402	2023-05-12
17.	RF Cable	N/A	ZT26-NJ-NJ-0 .5M	19060403	2023-05-12
18.	3m Semi-anechoic Chamber	chengyu	9m*6m*6m	N/A	2024-11-12
19.	Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A

7.4 Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

Remark 1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 - 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

2

7.5 Measurement Result

Below 30MHz:

All the modulation modes were tested the data of the test mode are recorded in the following pages.

Operation Mode:	TX Mode	Test Date :	2023-03-13
Frequency Range:	9KHz~30MHz	Temperature :	25.0 ℃
Test Result:	PASS	Humidity :	54.1%
Measured Distance:	3m	Test By:	Big

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over
(MHz)	H/V	(dBuV/m)	(dBuV/m)	(dB)

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

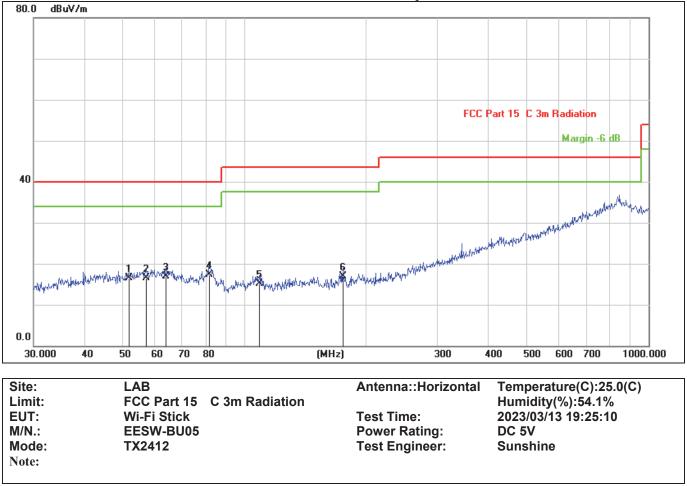
Limit line=Specific limits(dBuV) + distance extrapolation factor.

Below 1000MHz:

All the modulation modes were tested the data of the worst mode (TX 802.11b 2412MHz) are recorded in the following pages and the others modulation methods do not exceed the limits.

Please refer to the following test plots:

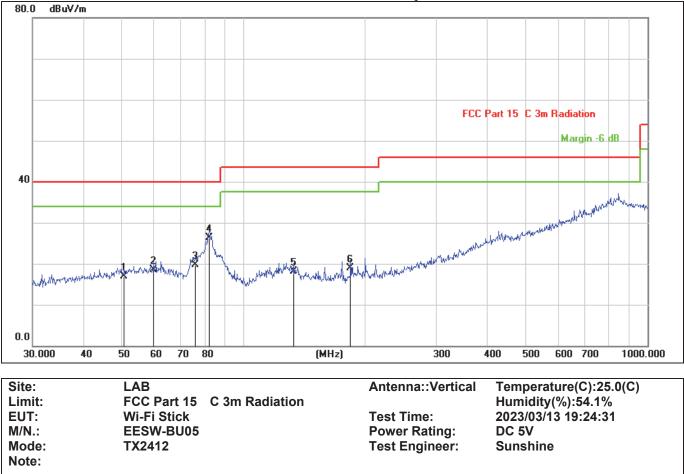
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No.	Frequency	Reading	Factor	Level	Limit	Margin	Det.	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	51.6616	25.89	-9.32	16.57	40.00	-23.43	QP	
2	56.9912	25.56	-9.15	16.41	40.00	-23.59	QP	
3	63.7588	25.99	-9.07	16.92	40.00	-23.08	QP	
4 *	81.7833	29.72	-12.37	17.35	40.00	-22.65	QP	
5	108.6470	26.72	-11.63	15.09	43.50	-28.41	QP	
6	175.0368	28.17	-11.24	16.93	43.50	-26.57	QP	

Note: 1. Result Level = Read Level+ Antenna Factor+ Cable Loss- Amp. Factor

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No.	Frequency	Reading	Factor	Level	Limit	Margin	Det.	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		
1	50.5860	26.40	-9.50	16.90	40.00	-23.10	QP	
2	59.8588	27.56	-9.06	18.50	40.00	-21.50	QP	
3	75.9773	31.05	-11.25	19.80	40.00	-20.20	QP	
4 *	82.0706	38.65	-12.35	26.30	40.00	-13.70	QP	
5	132.6850	29.99	-11.79	18.20	43.50	-25.30	QP	
6	183.8440	29.92	-11.10	18.82	43.50	-24.68	QP	

Note: 1. Result Level = Read Level+ Antenna Factor+ Cable Loss- Amp. Factor

Above 1GHz:

All the modulation modes were tested the data of the worst mode (TX 802.11b) are recorded in the following pages and the others modulation methods do not exceed the limits. The frequency range from 1GHz to 25GHz is investigated.

Operation Mode: Test Voltage:			802.11b Lowest DC 5V		Test Date : Test by:		2023-03-15 Big	
Freq.	Ant. Pol.	Emission Le	vel(dBuV/m)	Limit 3m	(dBuV/m)	Ove	r(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV	
4824	V	63.25	43.14	74	54	-10.75	-10.86	
7236	V	63.34	42.01	74	54	-10.66	-11.99	
9648	V	59.37	41.31	74	54	-14.63	-12.69	
12060	V	58.34	40.24	74	54	-15.66	-13.76	
14472	V	56.97	36.37	74	54	-17.03	-17.63	
16884	V	55.67	37.65	74	54	-18.33	-16.35	
4824	Н	63.28	43.67	74	54	-10.72	-10.33	
7236	Н	62.38	43.76	74	54	-11.62	-10.24	
9648	Н	61.34	42.37	74	54	-12.66	-11.63	
12060	Н	60.31	40.85	74	54	-13.69	-13.15	
14472	Н	58.64	39.58	74	54	-15.36	-14.42	
16884	Н	57.61	37.54	74	54	-16.39	-16.46	

Operation Mode: Test Voltage: 802.11b Middle DC 5V

Test Date : 2023-03-15 Test by: Big

Freq.	Ant. Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV
4874	V	64.58	44.69	74	54	-9.42	-9.31
7311	V	62.58	42.15	74	54	-11.42	-11.85
9688	V	60.84	41.36	74	54	-13.16	-12.64
12185	V	58.28	38.64	74	54	-15.72	-15.36
14622	V	57.21	37.58	74	54	-16.79	-16.42
17059	V	56.28	37.29	74	54	-17.72	-16.71
4874	Н	64.25	44.37	74	54	-9.75	-9.63
7311	Н	61.29	41.69	74	54	-12.71	-12.31
9688	Н	59.58	40.67	74	54	-14.42	-13.33
12185	Н	58.05	39.21	74	54	-15.95	-14.79
14622	Н	56.34	36.86	74	54	-17.66	-17.14
17059	Н	56.86	37.58	74	54	-17.14	-16.42

			30 of 77	Report	No.: E01A23021023F00302
Operation Mode:	802.11b	Highest	Test	Date :	2023-03-15
Test Voltage:	DC 5V		Test	by:	Big

(MHz)	H/V	PK	AV	PK	AV	PK	AV
4924	V	63.35	43.26	74	54	-10.65	-10.74
7386	V	61.69	41.38	74	54	-12.31	-12.62
9848	V	59.67	41.06	74	54	-14.33	-12.94
12310	V	59.66	39.21	74	54	-14.34	-14.79
14772	V	56.47	38.36	74	54	-17.53	-15.64
17234	V	55.64	37.31	74	54	-18.36	-16.69
4924	Н	62.35	42.58	74	54	-11.65	-11.42
7386	Н	60.85	42.63	74	54	-13.15	-11.37
9848	Н	59.25	41.35	74	54	-14.75	-12.65
12310	Н	58.96	39.68	74	54	-15.04	-14.32
14772	Н	58.63	39.25	74	54	-15.37	-14.75
17234 H		56.36	36.38	74	54	-17.64	-17.62

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

No others harmonics emissions are higher than 20 dB below the limits of 47 CFR Part 15.247.

Note: (1) All Readings are Peak Value and AV.

- (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
- (3) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

TRF No.: 01-R001-3A-WIFI

8. 6dB Bandwidth Test

8.1 Measurement Procedure

The EUT was operating in IEEE 802.11b, 802.11g, 802.11n(HT20) mode or could be controlled its channel. Printed out the test result from the spectrum by hard copy function. The testing follows the Measurement Procedure of FCC KDB No. 558074 D01 15.247 Meas Guidance v05r02.

- 1. Set resolution bandwidth (RBW) = 100 kHz.
- 2. Set the video bandwidth (VBW) \ge 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequency) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

8.2 Test SET-UP (Block Diagram of Configuration)

EUT Spectrum Analyzer

8.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	CALIBRATED UNTIL
Spectrum Analyzer	KEYSIGHT	N9020A	MY61250185	2023-10-07
RF Test Software	MWRF-test	MTS 8310	N/A	N/A
Radio Frequency control box	MWRF-test	MW200-RFCB	MW220111ANCI	2023-05-12

8.4 Measurement Results

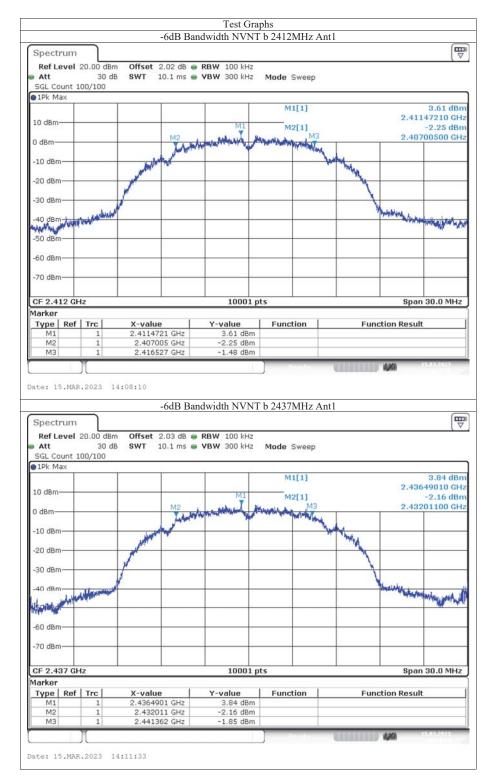
6db Bandwidth Test Data Chart:

Refer to attached data chart.

TRF No.: 01-R001-3A-WIFI

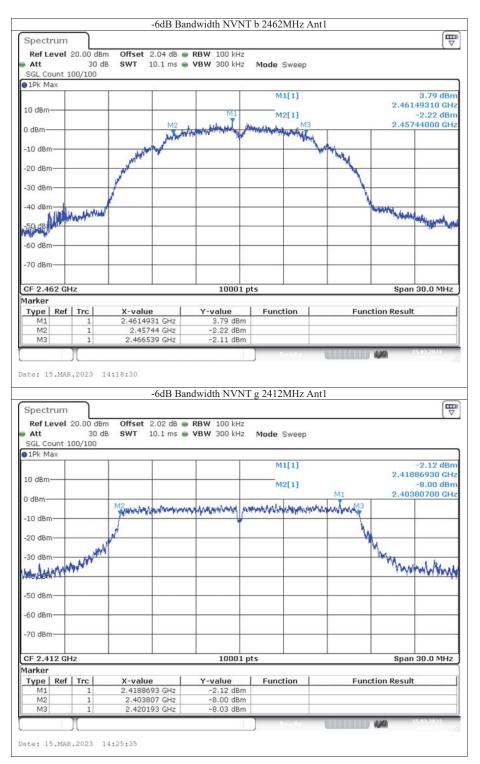
Spectrum Detector:	PK	Test Date :	2023-03-15
Test By:	Big	Temperature :	26 ℃
Humidity :	60%		

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.522	0.5	Pass
NVNT	b	2437	Ant1	9.351	0.5	Pass
NVNT	b	2462	Ant1	9.099	0.5	Pass
NVNT	g	2412	Ant1	16.386	0.5	Pass
NVNT	g	2437	Ant1	16.398	0.5	Pass
NVNT	g	2462	Ant1	16.422	0.5	Pass
NVNT	n20	2412	Ant1	17.319	0.5	Pass
NVNT	n20	2437	Ant1	17.301	0.5	Pass
NVNT	n20	2462	Ant1	17.313	0.5	Pass
NVNT	n40	2422	Ant1	33.708	0.5	Pass
NVNT	n40	2437	Ant1	34.176	0.5	Pass
NVNT	n40	2452	Ant1	33.54	0.5	Pass

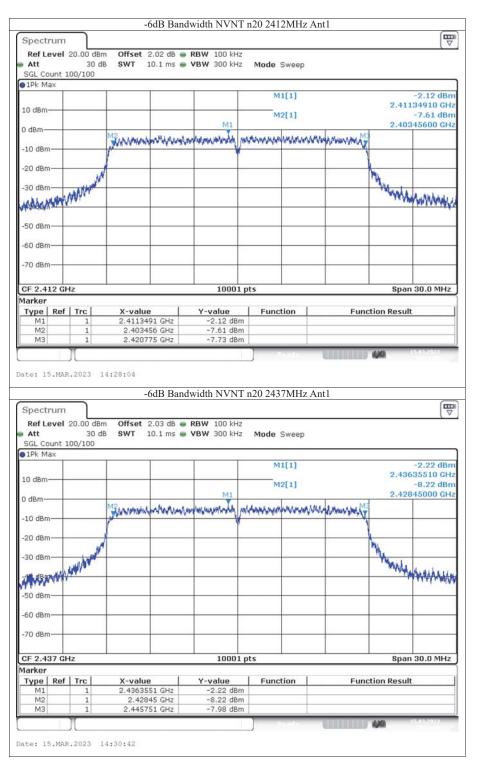


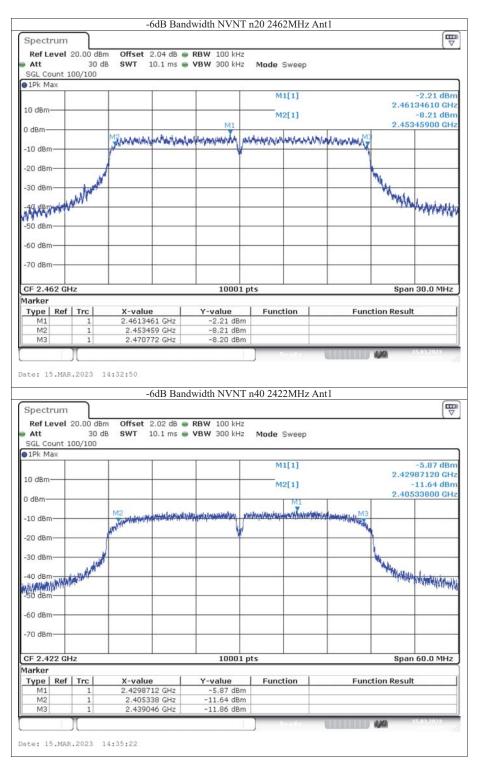
TRF No.: 01-R001-3A-WIFI

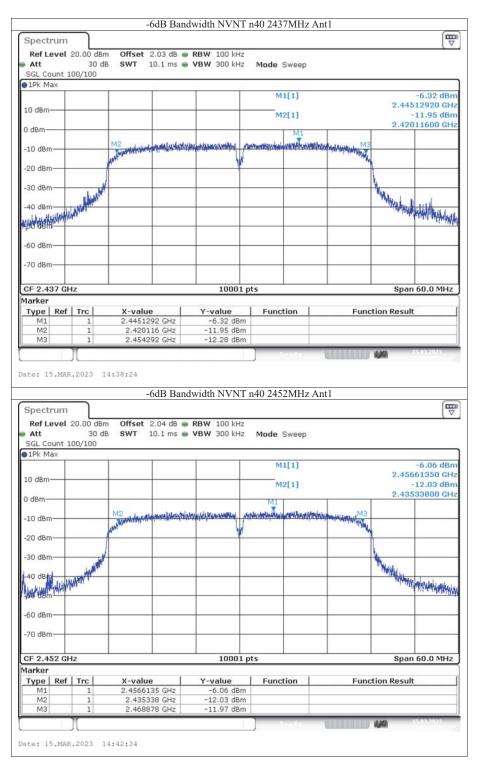
Global Testing, Great Quality.



-6dB Bandwidth NVNT g 2437MHz Ant1 ⊴∎ Spectrum Ref Level 20.00 dBm Offset 2.03 dB 🖷 RBW 100 kHz 30 dB SWT 10.1 ms 🖶 VBW 300 kHz Att Mode Sweep SGL Count 100/100 1Pk Max M1[1] 2.37 dBr 2.44388130 GHz 10 dBm M2[1] -8.26 dBm 2.42878600 GHz 0 dBn Boundary and a strategic and the second second -10 dBm -20 dBm M and the superior and the second -30 dBm MA HAS ABAYAA -50 dBm -60 dBm -70 dBm Span 30.0 MHz CF 2.437 GHz 10001 pts Marker Type Ref Trc M1 1 X-value 2.4438813 GHz 2.428786 GHz 2.445184 GHz Y-value -2.37 dBm -8.26 dBm -7.93 dBm **Function Result** Function M2 MЗ 110 Date: 15.MAR.2023 14:22:58 -6dB Bandwidth NVNT g 2462MHz Ant1 Spectrum 00 dBm Offset 2.04 dB 👄 RBW 100 kHz 30 dB SWT 10.1 ms 👄 VBW 300 kHz Ref Level 20.00 dBm Att Mode Sweep SGL Count 100/100 1Pk Max M1[1] -2.54 dBm 2.46449580 GHz 10 dBm -8.29 dBm 2.45377700 GHz M2[1] 0 dBm women was here any an and an and an and Run hun manager and have -10 dBm -20 dBm Mun and Mary -30 dBm AND BROWN -50 dBm -60 dBm -70 dBm CF 2.462 GHz 10001 pts Span 30.0 MHz Marker Type | Ref | Trc | Function **Function Result** X-value Y-value M1 M2 2.4644958 GHz 2.453777 GHz 2.470199 GHz -2.54 dBm -8.29 dBm МЗ -8.51 dBm 100 Date: 15.MAR.2023 14:20:33







9. Maximum Peak Output Power Test

9.1 Measurement Procedure

- The testing follows the Measurement Procedure of FCC KDB No. 558074 D01 15.247 Meas Guidance v05r02. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously.
- 3. Measure the conducted output power and record the results in the test report.

9.2 Test SET-UP (Block Diagram of Configuration)



9.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	CALIBRATED UNTIL
USB RF Power sensor	RadiPower	RPR3006W	17100015SNO88	2023-10-07
RF Test Software	MAIWEI	MTS 8310	N/A	N/A
Radio Frequency control box	MWRF-test	MW200-RFCB	MW220111ANCI	2023-05-12
Radio Frequency control box	MWRF-test	MW200-RFCB 2#	/	2023-05-12

9.4 Peak Power output limit

The maximum peak power shall be less 1Watt.

9.5 Measurement Results

Spectrum Detector:	PK	Test Date :	2023-03-15
Test By:	Big	Temperature :	26 ℃
Test Result:	PASS	Humidity :	60%

Test		Peak Ou	Itput Power (dBm)	Limit(dBm)	Pocult
Channel	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	сппцавтт)	Result
Lowest	12.72	10.99	10.97	10.43		
Middle	12.47	10.81	10.67	10.21	30	Pass
Highest	12.44	10.84	10.76	10.35		

10. Band Edge Test

10.1 Measurement Procedure

For Conducted Test

- 1. The testing follows FCC KDB Publication No. 5558074 D01 15.247 Meas Guidance v05r02.
- 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3. Set to the maximum power setting and enable the EUT transmit continuously.
- 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. Measure and record the results in the test report.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

For Radiated emission Test

- 1. The testing follows FCC KDB Publication No. 5558074 D01 15.247 Meas Guidance v05r02.
- 2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
- 3. The EUT was placed on a turntable with 0.8 meter above ground.
- 4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 5. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level.
- 6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- 7. Repeat above procedures until all frequency measured were complete.

When spectrum scanned above 1GHz setting resolution bandwidth 1MHz, video bandwidth 3MHz.

EMI Test Receiver	Setting
Attenuation	Auto
RB	1MHz
VB	3MHz
Detector	Peak
Trace	Max hold

When spectrum scanned above 1GHz setting resolution bandwidth 1MHz, video bandwidth 10Hz.

ballamaali ioniz.	
EMI Test Receiver	Setting
Attenuation	Auto
RB	1MHz
VB	10Hz
Detector	AVG
Trace	Max hold

10.2Test SET-UP (Block Diagram of Configuration)

EUT	Spectrum Analyzer
-----	-------------------

10.3Measurement Equipment Used

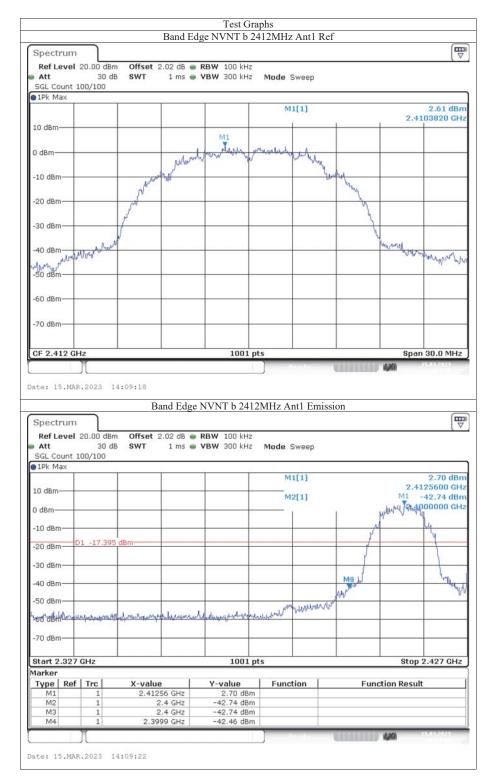
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	CALIBRATED UNTIL
Spectrum Analyzer	KEYSIGHT	N9020A	MY61250185	2023-10-07
RF Test Software	MWRF-test	MTS 8310	N/A	N/A
Radio Frequency control box	MWRF-test	MW200-RFCB	MW220111ANCI	2023-05-12

10.4Measurement Results

1. Conducted Test

Please refer to the follo	wing pages.		
Spectrum Detector:	PK	Test Date :	2023-03-15
Test By:	Big	Temperature :	26 ℃
Test Result:	PASS	Humidity :	60%

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.06	-20	Pass
NVNT	b	2462	Ant1	-56.62	-20	Pass
NVNT	g	2412	Ant1	-32.18	-20	Pass
NVNT	g	2462	Ant1	-45.53	-20	Pass
NVNT	n20	2412	Ant1	-31.94	-20	Pass
NVNT	n20	2462	Ant1	-45.39	-20	Pass
NVNT	n40	2422	Ant1	-32.67	-20	Pass
NVNT	n40	2452	Ant1	-38.81	-20	Pass



TRF No.: 01-R001-3A-WIFI

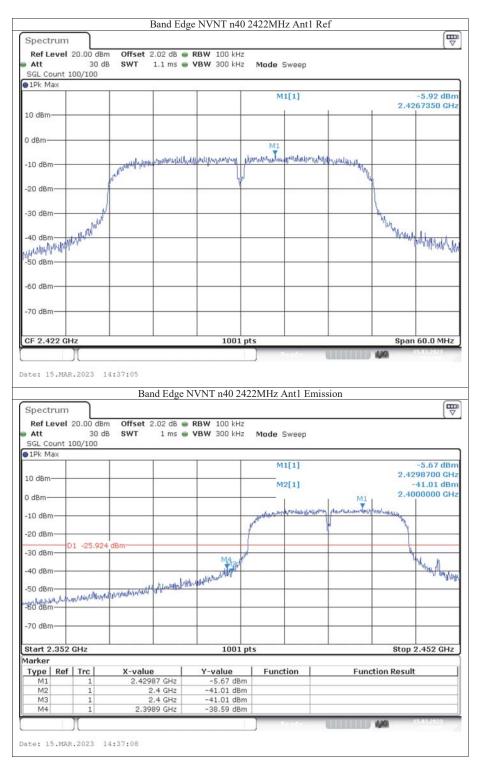


Band Edge NVNT g 2412MHz Ant1 Ref Spectrum Ref Level 20.00 dBm Offset 2.02 dB 📾 RBW 100 kHz 1 ms . VBW 300 kHz Mode Sweep Att 30 dB SWT SGL Count 100/100 1Pk Max -2.42 dBm 2.4144880 GHz M1[1] 10 dBm· 0 dBm and unantimus liver and moundappenanter -10 dBm -20 dBm -30 dBm-Munhaling MANN Malant -50 dBm -60 dBm -70 dBm CF 2.412 GHz 1001 pts Span 30.0 MHz Date: 15.MAR.2023 14:25:54 Band Edge NVNT g 2412MHz Ant1 Emission Spectrum Offset 2.02 dB RBW 100 kHz SWT 1 ms VBW 300 kHz Mode Sweep Ref Level 20.00 dBm Att 30 dB SWT SGL Count 100/100 1Pk Max M1[1] -1.82 dBm 2.4188600 GHz 10 dBm--34.61 dBm 2.4000900 GHz M2[1] 0 dBm LAIS- MALLIN -10 dBm--20 dBm-D1 -22.416 dB -30 dBm WARD . MULA where where the states and the states of the 40 dBr -50 dBm Jour March alleur -80 dehr Hulinott -70 dBm 1001 pts Stop 2.427 GHz Start 2.327 GHz Marker X-value 2.41886 GHz Type | Ref | Trc | Y-value Function **Function Result** -1.82 dBm -34.61 dBm M1 1 M2 M3 2.4 GHz 2.4 GHz 2.4 GHz 2.4 GHz -34.61 dBm M4 -34.61 dBm 100 Date: 15.MAR.2023 14:25:57

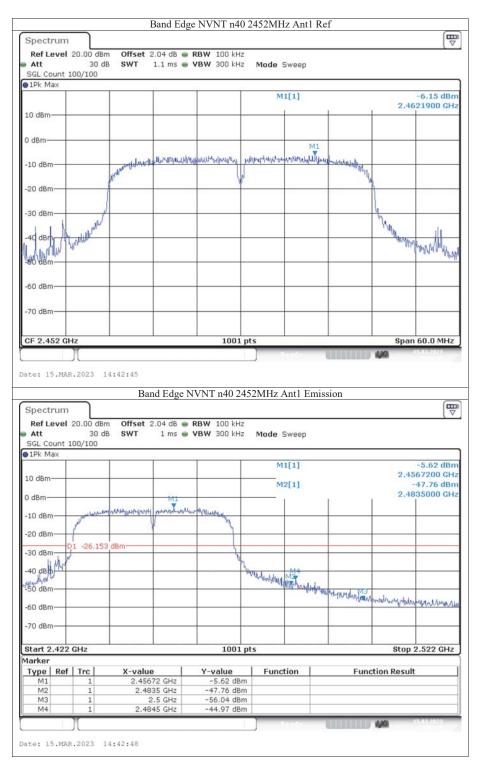
	_			dge NVNT g						G
Spectrum										
Ref Level	20.00 dB	m Offset 2	2.04 dB 🖷	• RBW 100 kH	z					
Att	30 (ib SWT	1 ms 🖷	VBW 300 kH	z Mode 9	Sweep				
SGL Count	100/100									
IPK Max		1			M	1[1]				-2.51 dBn
						AL AJ			2.4	644880 GH
10 dBm								-+	1.000	-
0 dBm		-		_	M1			-		
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-50 dBm					-			-		-
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-70 dBm	3		1					-		
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CF 2.462 G	Hz			1001	pts			_	Spa	n 30.0 MHz
)[and Edg	1001 e NVNT g 24		nt1 Em	ission		Spa M	n 30.0 MHz
CF 2.462 G ate: 15.MA Spectrum][and Edg			nt1 Em	ission	1007	Spa M	N 3U.U MHZ
ate: 15.MA)[.R.2023	Ba			62MHz A	nt1 Em	ission		spa	15 83 2023
Spectrum Ref Level	R. 2023	Ba m Offset 2	2.04 dB 🖷	e NVNT g 24	62MHz An		ission		spa	15 83 2023
Spectrum Ref Level Att SGL Count	R. 2023	Ba m Offset 2	2.04 dB 🖷	e NVNT g 24 RBW 100 kH	62MHz An		ission		spa	15 83 2023
Spectrum Ref Level Att SGL Count	R. 2023	Ba m Offset 2	2.04 dB 🖷	e NVNT g 24 RBW 100 kH	62MHz A c z z Mode s	Sweep	ission		spa M	15.852023
Spectrum Ref Level Att SGL Count IPk Max	R. 2023	Ba m Offset 2	2.04 dB 🖷	e NVNT g 24 RBW 100 kH	62MHz A c z z Mode s		ission		4/4	15 83 2023
Spectrum Ref Level Att SGL Count IPk Max	R. 2023	Ba m Offset 2	2.04 dB 🖷	e NVNT g 24 RBW 100 kH	62MHz A	Sweep	ission		2.4	-2.68 dBr 645300 GH -48.35 dBr
Spectrum Ref Level Att SGL Count 1Pk Max	R.2023	Ba m Offset 2 iB SWT	2.04 dB 🖷	e NVNT g 24 RBW 100 kH	62MHz A	Sweep 1[1]	ission		2.4	-2.68 dBr 645300 GH -48.35 dBr
Spectrum Ref Level Att SGL Count IPk Max	.R.2023	Ba m Offset 2	2.04 dB 🖷	e NVNT g 24 RBW 100 kH	62MHz A	Sweep 1[1]	ission		2.4	-2.68 dBn
Spectrum Ref Level Att SGL Count 10 dBm 0 dBm 10 dBm	R.2023	Ba m Offset 2 iB SWT	2.04 dB 🖷	e NVNT g 24 RBW 100 kH	62MHz A	Sweep 1[1]	ission		2.4	-2.68 dBr 645300 GH -48.35 dBr
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm 10 dBm	R.2023	Ba m Offset 2 JB SWT	2.04 dB 🖷	e NVNT g 24 RBW 100 kH	62MHz A	Sweep 1[1]	ission		2.4	-2.68 dBr 645300 GH -48.35 dBr
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm 10 dBm 10 dBm	M1 M1 M1 W1 W1 W1 W1 W1 W1 W1 W1 W1 W	Ba m Offset 2 jB SWT	2.04 dB 1 ms	e NVNT g 24 RBW 100 kH VBW 300 kH	62MHz A	Sweep 1[1] 2[1]			2.4 2.4	-2.68 dBn 645300 GH -48.35 dBn 835000 GH
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm -10 dBm -20 dBm -30 dBm	M1 M1 M1 W1 W1 W1 W1 W1 W1 W1 W1 W1 W	Ba m Offset 2 jB SWT	2.04 dB 1 ms	e NVNT g 24 RBW 100 kH VBW 300 kH	62MHz A	Sweep 1[1] 2[1]			2.4 2.4	-2.68 dBn 645300 GH -48.35 dBn 835000 GH
Spectrum Ref Level Att SGL Count 1Pk Max 10 dBm 10 dBm 20 dBm 	M1 M1 M1 W1 W1 W1 W1 W1 W1 W1 W1 W1 W	Ba m Offset 2 jB SWT	2.04 dB 1 ms	e NVNT g 24 RBW 100 kH VBW 300 kH	62MHz A	Sweep 1[1] 2[1]			2.4 2.4	-2.68 dBn 645300 GH -48.35 dBn 835000 GH
Atte: 15.MA Spectrum Ref Level Att SGL Count 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm	M1 M1 M1 W1 W1 W1 W1 W1 W1 W1 W1 W1 W	Ba m Offset 2 jB SWT	2.04 dB 1 ms	e NVNT g 24 RBW 100 kH VBW 300 kH	62MHz A	Sweep 1[1] 2[1]			2.4 2.4	-2.68 dBn 645300 GH -48.35 dBn 835000 GH
Spectrum Ref Level Att SGL Count IPk Max 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	M1 M1 M1 W1 W1 W1 W1 W1 W1 W1 W1 W1 W	Ba m Offset 2 jB SWT	2.04 dB 1 ms	e NVNT g 24 RBW 100 kH VBW 300 kH	62MHz A	Sweep 1[1] 2[1]			2.4 2.4	-2.68 dBn 645300 GH -48.35 dBn 835000 GH
Spectrum Ref Level Att SGL Count IPk Max 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	M1 M1 M1 W1 W1 W1 W1 W1 W1 W1 W1 W1 W	Ba m Offset 2 jB SWT	2.04 dB 1 ms	e NVNT g 24 RBW 100 kH VBW 300 kH	62MHz A	Sweep 1[1] 2[1]			2.4 2.4	-2.68 dBn 645300 GH -48.35 dBn 835000 GH
Spectrum Ref Level Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm -30 dBm -30 dBm -50 dBm -50 dBm	M1 M1 M1 W1 W1 W1 W1 W1 W1 W1 W1 W1 W	Ba m Offset 2 jB SWT	2.04 dB 1 ms	e NVNT g 24 RBW 100 kH VBW 300 kH	62MHz A	Sweep 1[1] 2[1]			2.4 2.4	-2.68 dBn 645300 GH -48.35 dBn 835000 GH
Atte: 15.MA Spectrum Ref Level Att SGL Count 10 dBm 10 dBm 20 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm	M1 20.00 dB 30 (100/100 M1 br+HAW Public D1 -22.51	Ba m Offset 2 jB SWT	2.04 dB 1 ms	e NVNT g 24	62MHz A	Sweep 1[1] 2[1]			2.4 2.4 2.4	-2.68 dBr 645300 GH -48.35 dBr 835000 GH
ate: 15.MA Spectrum Ref Level Att SGL Count IPk Max ID dBm 10 dBm ID dBm -10 dBm ID dBm -20 dBm ID dBm -50 dBm ID dBm -60 dBm ID dBm -70 dBm Start 2.447	M1 20.00 dB 30 (100/100 M1 br+HAW Public D1 -22.51	Ba m Offset 2 jB SWT	2.04 dB 1 ms	e NVNT g 24 RBW 100 kH VBW 300 kH	62MHz A	Sweep 1[1] 2[1]			2.4 2.4 2.4	-2.68 dBn 645300 GH -48.35 dBn 835000 GH
Ate: 15.MA Spectrum Ref Level Att SGL Count IDk Max 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm	M1 20.00 dB 30 (100/100 D1 -22.51	Ba m Offset 2 iB SWT	2.04 dB 1 ms	e NVNT g 24	62MHz Ar	Sweep 1[1] 2[1]			الله 2.4 2.4 الاراب المالي Stop	-2.68 dBr 645300 GH -48.35 dBr 835000 GH
Ate: 15.MA Spectrum Ref Level Att SGL Count 10 dBm 10 dBm 10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -70 dBm -70 dBm -70 dBm	M1 20.00 dB 30 (100/100 D1 -22.51	Ba m Offset 2 JB SWT	2.04 dB 1 ms	e NVNT g 24	62MHz Ai	Sweep 1[1] 2[1]			2.4 2.4 2.4	-2.68 dBr 645300 GH -48.35 dBr 835000 GH
Ate: 15.MA Spectrum Ref Level Att SGL Count IPk Max I0 dBm O	D1 -22.51	Ba m Offset 2 iB SWT 0 dBm 0 d	2.04 dB 1 ms 1 ms 53 GHz 35 GHz	e NVNT g 24	62MHz A:	Sweep 1[1] 2[1]			الله 2.4 2.4 الاراب المالي Stop	-2.68 dBr 645300 GH -48.35 dBr 835000 GH
Spectrum Ref Level Att SGL Count IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -70 dBm	20.00 dB 30 d 100/100 01 -22.51 7 GHz f Trc 1 1	Ba m Offset 2 JB SWT	2.04 dB 1 ms 1 ms 53 GHz 53 GHz 55 GHz 55 GHz	e NVNT g 24 RBW 100 kH VBW 300 kH VBW 300 kH 1001 1001 Y-value -2.68 db -48.35 db -58.26 db	62MHz Ai	Sweep 1[1] 2[1]			الله 2.4 2.4 الاراب المالي Stop	-2.68 dBr 645300 GH -48.35 dBr 835000 GH
Ate: 15.MA Spectrum Ref Level Att SGL Count IPk Max I0 dBm O	D1 -22.51	Ba m Offset 2 JB SWT	2.04 dB 1 ms 1 ms 53 GHz 35 GHz	e NVNT g 24	62MHz Ai	Sweep 1[1] 2[1]		Funct	الله 2.4 2.4 الاراب المالي Stop	-2.68 dBr 645300 GH -48.35 dBr 835000 GH

Spectrum	Build Ed	lge NVNT n20 2				Ē
Ref Level 20.00	dBm Offset 2.02 dB @	RBW 100 kHz				
Att 3	0 dB SWT 1 ms 🖷	VBW 300 kHz	Mode Sweep			
SGL Count 100/100 1Pk Max	0					
IPK Max		T T	M1[1]			-2.61 dBn
					2.41	13710 GH
10 dBm						
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-50 dBm						
-60 dBm						
-70 dBm					-	-
CF 2.412 GHz		1001 pt	s		Span	30.0 MHz
ate: 15.MAR.2023		NVNT n20 241	2MHz Apt1 E	mission		
ate: 15.MAR.2023		NVNT n20 2412	2MHz Ant1 E	mission		(7)
Spectrum	Band Edge		2MHz Ant1 E	mission		
Spectrum Ref Level 20.00	Band Edge	RBW 100 kHz		mission		
Spectrum Ref Level 20.00 Att 31 SGL Count 100/100	Band Edge dBm Offset 2.02 dB 0 dB SWT 1 ms		2MHz Anti Er Mode Sweep	mission		
Spectrum Ref Level 20.00 Att 31 SGL Count 100/100	Band Edge dBm Offset 2.02 dB 0 dB SWT 1 ms	RBW 100 kHz	Mode Sweep	mission		[\
Spectrum Ref Level 20.00 Att 31 SGL Count 100/100 1Pk Max	Band Edge dBm Offset 2.02 dB 0 dB SWT 1 ms	RBW 100 kHz		mission	2.41	-2.42 dBn
Spectrum Ref Level 20.00 Att 31 SGL Count 100/100 1Pk Max	Band Edge dBm Offset 2.02 dB 0 dB SWT 1 ms	RBW 100 kHz	Mode Sweep	mission		-2.42 dBn 76600 GH -35.55 dBn
Spectrum Ref Level 20.00 Att 3: SGL Count 100/10(1Pk Max 10 dBm	Band Edge dBm Offset 2.02 dB 0 dB SWT 1 ms	RBW 100 kHz	Mode Sweep M1[1]		2.40	-2.42 dBn 76600 GH 35.55 dBn M0000 GH
Spectrum	Band Edge dBm Offset 2.02 dB 0 dB SWT 1 ms	RBW 100 kHz	Mode Sweep M1[1]			-2.42 dBn 76600 GH 35.55 dBn 10000 GH
Spectrum	Band Edge	RBW 100 kHz	Mode Sweep M1[1]		2.40	-2.42 dBn 76600 GH 35.55 dBn 10000 GH
Spectrum Ref Level 20.00 Att 31 SGL count 100/100 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm D1 -22.	Band Edge	RBW 100 kHz VBW 300 kHz	Mode Sweep M1[1] M2[1]	po-t	2.40	-2.42 dBn 76600 GH 35.55 dBn 10000 GH
Spectrum Ref Level 20.00 Att 31 SGL count 100/100 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm D1 -22.	Band Edge	RBW 100 kHz VBW 300 kHz	Mode Sweep M1[1] M2[1]	po-t	2.40	-2.42 dBn 76600 GH 35.55 dBn 00000 GH
Spectrum Ref Level 20.00 Att 31 SGL count 100/100 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm D1 -22.	Band Edge	RBW 100 kHz VBW 300 kHz	Mode Sweep M1[1] M2[1]	po-t	2.40	-2.42 dBn 76600 GH 35.55 dBn 00000 GH
Spectrum Ref Level 20.00 Att 31 SGL count 100/100 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm D1 -22.	Band Edge	RBW 100 kHz VBW 300 kHz	Mode Sweep M1[1] M2[1]	po-t	2.40	-2.42 dBn 76600 GH 35.55 dBn 00000 GH
Spectrum Ref Level 20.00 Att 3: SGL Count 100/100 1Pk Max 10 dBm -10 dBm -20 dBm D1 -22.	Band Edge	RBW 100 kHz VBW 300 kHz	Mode Sweep M1[1] M2[1]	po-t	2.40	-2.42 dBn .76600 GH: 35.55 dBn Mb000 GH:
Spectrum Ref Level 20.00 Att 3: SGL Count 100/100 1Pk Max 10 dBm -10 dBm -20 dBm D1 -22.	Band Edge	RBW 100 kHz VBW 300 kHz	Mode Sweep M1[1] M2[1]	po-t	2.40	-2.42 dBn 76600 GH: 35.55 dBn 00000 GH:
Spectrum Ref Level 20.00 Att 31 SGL count 100/100 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm D1 -22.	Band Edge	RBW 100 kHz VBW 300 kHz	Mode Sweep M1[1] M2[1]	po-t	2.40	-2.42 dBn 76600 GH 35.55 dBn 00000 GH
Spectrum Ref Level 20.00 Att 31 SGL Count 100/100 1PK Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -70 dBm	Band Edge	RBW 100 kHz VBW 300 kHz	Mode Sweep	po-t	2.40	-2.42 dBn 76600 GH 35.55 dBn Mbbooo GH
Spectrum Ref Level 20.00 Att 35GL Count 100/100 91Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm	Band Edge	RBW 100 kHz VBW 300 kHz	Mode Sweep	po-t	2.40	-2.42 dBn 76600 GH 35.55 dBn Mbbooo GH
Spectrum Ref Level 20.00 Att 31 SGL Count 100/100 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -10 dBm -20 dBm -10 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm	Band Edge	RBW 100 kHz VBW 300 kHz	Mode Sweep M1[1] M2[1] M2[1] I Λ/μ////// I Λ/μ////// I S I	not in the second secon	2.40	-2.42 dBn 76600 GH 35.55 dBn 00000 GH
Spectrum Ref Level 20.00 Att 31 SGL Count 100/100 1PK Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm	Band Edge	RBW 100 kHz VBW 300 kHz	Mode Sweep	not in the second secon	2.40	-2.42 dBn 76600 GH 35.55 dBn 00000 GH
Spectrum Ref Level 20.00 Att 3: SGL Count 100/100 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm	Band Edge	RBW 100 kHz VBW 300 kHz	Mode Sweep M1[1] M2[1] M2[1] I Λ/μ////// I Λ/μ////// I S I	not in the second secon	2.40	-2.42 dBn 76600 GH 35.55 dBn 00000 GH
Spectrum Ref Level 20.00 Att 31 SGL Count 100/100 1PK Max 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm	Band Edge	RBW 100 kHz VBW 300 kHz	Mode Sweep M1[1] M2[1] M2[1] I Λ/μ////// I Λ/μ////// I S I	not in the second secon	2.40	-2.42 dBn 76600 GH 35.55 dBn 00000 GH
Spectrum Ref Level 20.00 Att 31 SGL Count 100/100 1PK Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm -70 dBm Start 2.327 GHz Type Ref Trc M1 1 M2 1	Band Edge	RBW 100 kHz VBW 300 kHz	Mode Sweep M1[1] M2[1] M2[1] I Λ/μ////// I Λ/μ////// I S I	not in the second secon	2.40	-2.42 dBn 76600 GH 35.55 dBn 00000 GH

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ste: 1 Spect Ref L Att SGL Co	5.MAR rum evel	20.00 dB	Bar m Offset 2	2.04 dB 👄	NVNT n20 2 RBW 100 kH	2462MHz A		nission		ua	15 0 2 2023
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spect Ref L Att SGL Co 1Pk M	rum evel bunt 1 ax	20.00 dB	Bar m Offset 2	2.04 dB 👄	NVNT n20 2 RBW 100 kH	462MHz 4 z z Mode s		nission		2.4	-2.40 dBr
Spect Ref L SGL Co 1Pk M	rum evel bunt 1 ax	20.00 dB	Bar m Offset 2	2.04 dB 👄	NVNT n20 2 RBW 100 kH	462MHz A z Mode s	Sweep	nission			-2.40 dBr 566400 GH
Spect Ref L Att SGL Co 1Pk M 10 dBm	rum evel ount 1 ax	20.00 dB 30 c	Bar m Offset 2 IB SWT	2.04 dB 👄	NVNT n20 2 RBW 100 kH	462MHz A z Mode s	Sweep	nission			-2.40 dBr 566400 GH -48.67 dBr
spect Ref L Att SGL Cc 1Pk M 10 dBm	s.map	20.00 dB	Bar m Offset 2 IB SWT	2.04 dB 👄	NVNT n20 2 RBW 100 kH	462MHz A z Mode s	Sweep	nission			-2.40 dBn 566400 GH -48.67 dBn
spect Ref L Att SGL Cc 1Pk M 10 dBm	s.map	20.00 dB 30 c	Bar m Offset 2 IB SWT	2.04 dB 👄	NVNT n20 2 RBW 100 kH	462MHz A z Mode s	Sweep	nission			-2.40 dBn 566400 GH -48.67 dBn
Spect Ref L Att SGL Co 1Pk M 10 dBm 0 dBm-	rum evel ount 1 ax	20.00 dB 30 c	Bar m Offset 2 B SWT	2.04 dB 👄	NVNT n20 2 RBW 100 kH	462MHz A z Mode s	Sweep	nission			-2.40 dBn 566400 GH -48.67 dBn
Spect Ref L Att SGL Co 1Pk M 10 dBm 0 dBm- 10 dBm -10 dBm	rum evel ount 1 ax	20.00 dB 20.00 dB 30 c 000/100	Bar m Offset 2 B SWT	2.04 dB 👄	NVNT n20 2 RBW 100 kH	462MHz A z Mode s	Sweep	nission			-2.40 dBn 566400 GH -48.67 dBn
Spect Ref L Att SGL Cc JPk M 10 dBm- -10 dBm- -10 dBm- -30 dBm-	rum evel punt 1 ax ML n	20.00 dB 20.00 dB 30 c 000/100	Bar m Offset : B SWT	2.04 dB • 1 ms •	NVNT n20 2 RBW 100 kH VBW 300 kH	462MHz A	Sweep 1[1] 2[1]				-2.40 dBn 566400 GH -48.67 dBn 35000 GH
Spect Ref L Att SGL Cc JPk M 10 dBm- -10 dBm- -10 dBm- -30 dBm-	rum evel punt 1 ax ML n	20.00 dB 20.00 dB 30 c 000/100	Bar m Offset : B SWT	2.04 dB • 1 ms •	NVNT n20 2 RBW 100 kH VBW 300 kH	462MHz A	Sweep 1[1] 2[1]				-2.40 dBn 566400 GH -48.67 dBn
Spect Ref L Att SGLCcc 10 dBm- 10 dBm- 10 dBm- -10 dBm- -20 dBm -30 dBm	rum evel bunt 1 ax	20.00 dB 20.00 dB 30 c 000/100	Bar m Offset : B SWT	2.04 dB • 1 ms •	NVNT n20 2 RBW 100 kH VBW 300 kH	462MHz A	Sweep 1[1] 2[1]				-2.40 dBn 566400 GH -48.67 dBn
Spect: Ref Ll SGL Cc PIPk M 10 dBm- 10 dBm- 20 dBn- 30 dBm- 30 dBm- 50 dBm	rum evel ount 1 m ML n n n	20.00 dB 20.00 dB 30 c 000/100	Bar m Offset : B SWT	2.04 dB • 1 ms •	NVNT n20 2 RBW 100 kH VBW 300 kH	462MHz A	Sweep 1[1] 2[1]				-2.40 dBn 566400 GH -48.67 dBn 335000 GH
Spect: Ref Ll SGL Cc PIPk M 10 dBm- 10 dBm- 20 dBn- 30 dBm- 30 dBm- 50 dBm	rum evel ount 1 m ML n n n	20.00 dB 20.00 dB 30 c 000/100	Bar m Offset : B SWT	2.04 dB • 1 ms •	NVNT n20 2 RBW 100 kH VBW 300 kH	462MHz A	Sweep 1[1] 2[1]			2.44	-2.40 dBn 566400 GH -48.67 dBn 335000 GH
spect Ref L SGL Cc PIPk M 10 dBm -10 d	rum evel punt 1 ax ML	20.00 dB 20.00 dB 30 c 000/100	Bar m Offset : B SWT	2.04 dB • 1 ms •	NVNT n20 2 RBW 100 kH	462MHz A	Sweep 1[1] 2[1]			2.44	-2.40 dBr 566400 GH -48.67 dBr 335000 GH
Spect: Ref L Att SGL Cc SGL Cc SGL Cc SGL Cc SGL Cc Att 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm	s.map	20.00 dB 30 c 000/100	Bar m Offset : B SWT	2.04 dB • 1 ms •	NVNT n20 2 RBW 100 kH VBW 300 kH	462MHz /	Sweep 1[1] 2[1]			2.44	-2.40 dBn 566400 GH -48.67 dBn 335000 GH
Spect Ref L Att SGL C2 1Pk M 0 dBm- 10 dBm- -10 dBm -20 dBm- -30 dBm -30 dBm -50 dBm -70 dBm -70 dBm	s.map	20.00 dB 30 c 000/100	Bar m Offset : B SWT	2.04 dB • 1 ms •	NVNT n20 2 RBW 100 kH VBW 300 kH	462MHz /	Sweep 1[1] 2[1]			2.44	-2.40 dBn 566400 GH -48.67 dBn 335000 GH
Spect Ref L Att SGL Cc SGL CCC	S.MAR rum evel ount 1 ax ML n n n n n n n n n n n n n n n n n n	20.00 dB 30 c 100/100 01 -22.66	Bar m Offset : swr 8 dBm		NVNT n20 2 RBW 100 kH VBW 300 kH	462MHz A	Sweep 1[1] 2[1] 			2.44 بریمانایین	-2.40 dBn 566400 GH -48.67 dBn 335000 GH
Spect Ref L Att SGL Cc Att SGL Cc SGL	S.MAR rum evel ount 1 ax ML n n n n n n n n n n n n n n n n n n	20.00 dB 30 c 100/100 01 -22.66	Bar m Offset 2 B SWT		NVNT n20 2 RBW 100 kH VBW 300 kH	462MHz A	Sweep 1[1] 2[1] 			2.44	-2.40 dBn 566400 GH -48.67 dBn 335000 GH
Spect Ref L Att SGL Cc SGL CCC	S.MAR rum evel ount 1 ax ML n n n n n n n n n n n n n n n n n n	CHz Trc 1 1 1	Bar m Offset 2 B SWT B dBm B dBm K-value 2.456 2.485 2.485	2.04 dB 1 ms 1 m	NVNT n20 2 RBW 100 kH VBW 300 kH 	462MHz /	Sweep 1[1] 2[1] 			2.44 بریماناییماناییمان Stop	-2.40 dBn 566400 GH -48.67 dBn 335000 GH
Spect Ref L SGL CC DIPk M 0 dBm- -10 dBm -30 d	S.MAR rum evel ount 1 ax ML n n n n n n n n n n n n n n n n n n	CHz GHz Trc 1 1 1	Bar m Offset : swr e d8m k d8m x-value 2.456 2.48 2	2.04 dB 1 ms 1 m	NVNT n20 2 RBW 100 kH VBW 300 kH 	462MHz A	Sweep 1[1] 2[1] 			2.44 بریماناییماناییمان Stop	-2.40 dBn 566400 GH -48.67 dBn 335000 GH
Spect Ref L Att SGL Cc SGL CCC	S.MAR rum evel ount 1 ax ML n n n n n n n n n n n n n n n n n n	CHz Trc 1 1 1	Bar m Offset : swr e d8m k d8m x-value 2.456 2.48 2	2.04 dB 1 ms 1 m	NVNT n20 2 RBW 100 kH VBW 300 kH 	462MHz A	Sweep 1[1] 2[1] 		Functi	2.44 بریماناییماناییمان Stop	-2.40 dBn 566400 GH -48.67 dBn 335000 GH



TRF No.: 01-R001-3A-WIFI



2. Radiated emission Test Spectrum Detector:

Test By: Humidity : PK/AV Big 65 %
 Test Date :
 2023-03-15

 Temperature :
 28 °C

	IEEE 802.11b SISO											
Freq.	Ant. Pol.	Rea Level(d	ding BuV/m)	Correct Factor	Emis Level(d		Limit 3m(dBuV/m		Margin(d	B)		
(MHz)	H/V	PK	AV	dB	PK	AV	PK	AV	PK	AV		
<2400	Н	86.65	68.41	-26.3	60.35	42.11	74	54	-13.65	-11.89		
<2400	V	85.65	65.59	-26.1	59.55	39.49	74	54	-14.45	-14.51		
>2483.5	Н	88.09	67.52	-26.3	61.79	41.22	74	54	-12.21	-12.78		
>2483.5	V	86.46	65.18	-26.1	60.36	39.08	74	54	-13.64	-14.92		

	IEEE 802.11g SISO										
Freq.	Ant. Pol.	Rea Level(d	ding BuV/m)	Correct Factor	Emis Level(d	ssion BuV/m)	Limit 3m(dBuV/m		Margin(dB)		
(MHz)	H/V	PK	AV	dB	PK	AV	PK	AV	PK	AV	
<2400	Н	90.45	70.55	-26.3	64.15	44.25	74	54	-9.85	-9.75	
<2400	V	86.79	66.79	-26.1	60.69	40.69	74	54	-13.31	-13.31	
>2483.5	Н	87.89	67.78	-26.3	61.59	41.48	74	54	-12.41	-12.52	
>2483.5	V	86.43	68.89	-26.1	60.33	42.79	74	54	-13.67	-11.21	

	IEEE 802.11n(HT20) SISO										
Freq.	Ant. Pol.	Rea Level(d	ding BuV/m)	Correct Factor	Emis Level(d		Lim 3m(dB		Margin(d	B)	
(MHz)	H/V	PK	AV	dB	PK	AV	PK	AV	PK	AV	
<2400	Н	89.27	70.32	-26.3	62.97	44.02	74	54	-11.03	-9.98	
<2400	V	86.21	68.25	-26.1	60.11	42.15	74	54	-13.89	-11.85	
>2483.5	Н	88.76	68.64	-26.3	62.46	42.34	74	54	-11.54	-11.66	
>2483.5	V	87.46	67.74	-26.1	61.36	41.64	74	54	-12.64	-12.36	

	IEEE 802.11n(HT40) SISO										
Freq.	Ant. Pol.	Rea Level(d	ding BuV/m)	Correct Factor	Emis Level(d	ssion BuV/m)	n Limit //m) 3m(dBuV/m		Margin(dB)		
(MHz)	H/V	PK	AV	dB	PK	AV	PK	AV	PK	AV	
<2400	Н	89.99	69.84	-26.3	63.69	43.54	74	54	-10.31	-10.46	
<2400	V	86.26	68.21	-26.1	60.16	42.11	74	54	-13.84	-11.89	
>2483.5	Н	87.25	66.99	-26.3	60.95	40.69	74	54	-13.05	-13.31	
>2483.5	V	85.98	66.35	-26.1	59.88	40.25	74	54	-14.12	-13.75	

TRF No.: 01-R001-3A-WIFI

11. Power Density

11.1Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	CALIBRATED UNTIL
Spectrum Analyzer	KEYSIGHT	N9020A	MY61250185	2023-10-07
RF Test Software	MWRF-test	MTS 8310	N/A	N/A
Radio Frequency control box	MWRF-test	MW200-RFCB	MW220111ANCI	2023-05-12

11.2Measuring Instruments and Setting

The following table is the setting of spectrum analyzer.

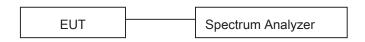
Spectrum analyzer	Setting
Attenuation	Auto
Span Frequency	Set the span to 1.5 times the DTS bandwidth.
RB	3kHz
VB	10KHz
Detector	Peak
Trace	Max hold
Sweep Time	Automatic

11.3Test Procedures

The testing follows the Measurement Procedure of FCC KDB No. 558074 D01 15.247 Meas Guidance v05r02.

- a. The transmitter output (antenna port) was connected to the spectrum analyzer.
- b. Set analyzer center frequency to DTS channel center frequency.
- c. Set the analyzer span to a minimum of 1.5 times the DTS bandwidth.
- d. Set the RBW \geq 3 kHz. Set the VBW \geq 3 x RBW.
- e. Detector = peak.
- f. Sweep time = auto couple.
- g. Trace mode = max hold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level.

11.4Block Diagram of Test Setup



11.5Limit

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3 kHz bandwidth.

TRF No.: 01-R001-3A-WIFI

11.6Test Result

Spectrum Detector:	PK	Test Date :	2023-03-15
Test By:	Big	Temperature :	26 ℃
Test Result:	PASS	Humidity :	60%

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-11.32	0	-11.32	8	Pass
NVNT	b	2437	Ant1	4.01	0	4.01	8	Pass
NVNT	b	2462	Ant1	-11.37	0	-11.37	8	Pass
NVNT	g	2412	Ant1	-2.99	0	-2.99	8	Pass
NVNT	g	2437	Ant1	-17.6	0	-17.6	8	Pass
NVNT	g	2462	Ant1	-17.46	0	-17.46	8	Pass
NVNT	n20	2412	Ant1	-16.98	0	-16.98	8	Pass
NVNT	n20	2437	Ant1	-17.19	0	-17.19	8	Pass
NVNT	n20	2462	Ant1	-16.93	0	-16.93	8	Pass
NVNT	n40	2422	Ant1	-18.24	0	-18.24	8	Pass
NVNT	n40	2437	Ant1	-18.48	0	-18.48	8	Pass
NVNT	n40	2452	Ant1	-18.23	0	-18.23	8	Pass

		Tes PSD NVNT	b 2412MHz Ant1			
Spectrum		TOD INVINI	o 2712mill Altti			E
Ref Level 20.00 di	am Offset 2.02	2 dB 👄 RBW 3	kHz			
Att 30	dB SWT 159	ms 🖷 VBW 10	kHz Mode Sweep			
SGL Count 100/100 1Pk Max						
			M1[1]			11.32 dBr
			1		2.41	02445 GH
10 dBm						
0 dBm						
-10 dBm		M1				
-10 dBm -20 dBm -20 dBm 		a half all the register that	WilderMartersalesarcheer	Althoughedurchald	1.00	
-20 dBm	Web-la of Alle De		- Martine	a to to the second	HAM IN	bult.
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io ubiii						
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CF 2.412 GHz	14:09:11		b 2437MHz Ant1		3pan 14	5.03.2023
			b 2437MHz Ant1		span 14	5.03.2023
Spectrum Ref Level 20.00 dl	Bm Offset 2.03	PSD NVNT	b 2437MHz Ant1			5.03.2023
Spectrum Ref Level 20.00 di Att 30 SGL Count 100/100	Bm Offset 2.03	PSD NVNT 8 db @ Rbw 100	b 2437MHz Ant1			5.03.2023
Spectrum Ref Level 20.00 dl	Bm Offset 2.03	PSD NVNT 8 db @ Rbw 100	b 2437MHz Ant1			1010000 10100000
Spectrum Ref Level 20.00 dl Att 30 SGL Count 100/100 PIPk Max	Bm Offset 2.03	PSD NVNT 8 db @ Rbw 100	b 2437MHz Ant1			4.01 dBi
Spectrum Ref Level 20.00 di Att 30 SGL Count 100/100	Bm Offset 2.03	PSD NVNT 8 db @ Rbw 100	b 2437MHz Ant1			4.01 dBi
Spectrum Ref Level 20.00 dl Att 30 SGL Count 100/100 PIPk Max	Bm Offset 2.03	PSD NVNT 3 dB • RBW 100 ms • VBW 300	b 2437MHz Ant1	and part to	2.43	4.01 dBi
Ate: 15.MAR.2023 Spectrum Ref Level Ref Level 20.00 dl Att 30 SGL Count 100/100 IPk Max 10 dBm 0 dBm MV	Bm Offset 2.03	PSD NVNT 3 dB • RBW 100 ms • VBW 300	b 2437MHz Ant1			4.01 dBi
Spectrum Ref Level 20.00 dl Att 30 SGL Count 100/100) IPk Max 10 dBm-	Bm Offset 2.03	PSD NVNT 3 dB • RBW 100 ms • VBW 300	b 2437MHz Ant1		2.43	4.01 dBi 65098 GH
Spectrum Ref Level 20.00 dl Att 30 SGL Count 100/100 1Pk Max 10 dBm 0 dBm 10/48	Bm Offset 2.03	PSD NVNT 3 dB • RBW 100 ms • VBW 300	b 2437MHz Ant1	manyoung	2.43	4.01 dBi 65098 GH
Ate: 15.MAR.2023 Spectrum Ref Level Ref Level 20.00 dl Att 30 SGL Count 100/100 IPk Max 10 dBm 0 dBm MV	Bm Offset 2.03	PSD NVNT 3 dB • RBW 100 ms • VBW 300	b 2437MHz Ant1		2.43	4.01 dBi 65098 GH
Spectrum Ref Level 20.00 dl Att 30 SGL Count 100/100 1Pk Max 10 dBm 0 dBm -10/pem ^{1/1} m ⁴	Bm Offset 2.03	PSD NVNT 3 dB • RBW 100 ms • VBW 300	b 2437MHz Ant1		2.43	4.01 dBi 65098 GH
Spectrum Ref Level 20.00 dl Att 30 SGL Count 100/100 1Pk Max 10 dBm 0 dBm 10/48	Bm Offset 2.03	PSD NVNT 3 dB • RBW 100 ms • VBW 300	b 2437MHz Ant1		2.43	4.01 dBi 65098 GH
Spectrum Ref Level 20.00 dl Att 30 SGL Count 100/100 1Pk Max 10 dBm 0 dBm -10/pem ^{1/1} m ⁴	Bm Offset 2.03	PSD NVNT 3 dB • RBW 100 ms • VBW 300	b 2437MHz Ant1		2.43	4.01 dBi 65098 GH
Spectrum Ref Level 20.00 dl Att 30 SGL Count 100/100 1Pk Max 10 dBm 0 dBm -10/06m ^{4/1} 4 m ^{4/4} -20 dBm -30 dBm	Bm Offset 2.03	PSD NVNT 3 dB • RBW 100 ms • VBW 300	b 2437MHz Ant1		2.43	4.01 dBi 65098 GH
Spectrum Ref Level 20.00 dl Att 30 SGL Count 100/100 1Pk Max 10 dBm 0 dBm -10/06m ^{4/1} 4 m ^{4/4} -20 dBm -30 dBm	Bm Offset 2.03	PSD NVNT 3 dB • RBW 100 ms • VBW 300	b 2437MHz Ant1		2.43	4.01 dBn 55098 GH
Ate: 15.MAR.2023 Spectrum Ref Level 20.00 dl Att 30 SGL Count 100/100 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Bm Offset 2.03	PSD NVNT 3 dB • RBW 100 ms • VBW 300	b 2437MHz Ant1		2.43	4.01 dBi 65098 GH
ate: 15.MAR.2023 Spectrum Ref Level 20.00 dl Att 30 SGL Count 100/100 10 1Pk Max 10 10 dBm	Bm Offset 2.03	PSD NVNT 3 dB • RBW 100 ms • VBW 300	b 2437MHz Ant1		2.43	4.01 dBi 65098 GH
Ate: 15.MAR.2023 Spectrum Ref Level 20.00 dl Att 30 SGL Count 100/100 1Pk Max 10 dBm 0 0 dBm	Bm Offset 2.03	PSD NVNT 3 dB • RBW 100 ms • VBW 300	b 2437MHz Ant1		2.43	4.01 dBi 65098 GH
Ate: 15.MAR.2023 Spectrum Ref Level 20.00 dl Att 30 SGL Count 100/100 IPk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Bm Offset 2.03	PSD NVNT 3 dB • RBW 100 ms • VBW 300	b 2437MHz Ant1		2.43	4.01 dBi 65098 GH
Ate: 15.MAR.2023 Spectrum Ref Level 20.00 dl Att 30 SGL Count 100/100 IPK Max 10 dBm 0 10 dBm	Bm Offset 2.03	PSD NVNT	b 2437MHz Ant1		2.43	4.01 dBi
Ate: 15.MAR.2023 Spectrum Ref Level 20.00 dl Att 30 SGL Count 100/100 1Pk Max 10 dBm 0 0 dBm	Bm Offset 2.03	PSD NVNT	b 2437MHz Ant1		2.43	4.01 dBi

	_		PSD	NVNT b 2	2462MHz .	AIIU			6
Spectrum									
Ref Level			2.04 dB 🖷 R						,
Att	30 dB	SWT	152 ms 🖷 V	BW 10 kHz	Mode St	weep			
SGL Count 1 1Pk Max	00/100								
ALL HIGH					M	1[1]			-11.37 dBr
								2.4	602548 GH
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8									
D dBm								1	-
			M1						
-10 dBm			Luchal	141	adda Labort	day at 1	1		
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	.2023 1	4:19:07	PSD	NVNT g 2	2412MHz .	Ant1		- Sport	Ē
Spectrum						Ant1		Ngole -	7
		Offset 2	2.02 dB 👄 R		z				T T
Spectrum Ref Level : Att SGL Count 1	20.00 dBm 30 dB	Offset 2	2.02 dB 👄 R	BW 100 kH	z				Ţ]
Spectrum Ref Level	20.00 dBm 30 dB	Offset 2	2.02 dB 👄 R	BW 100 kH	z z Mode S	Sweep			
Spectrum Ref Level : Att SGL Count 1	20.00 dBm 30 dB	Offset 2	2.02 dB 👄 R	BW 100 kH	z z Mode S				-2.99 dBi
Spectrum Ref Level : Att SGL Count 1	20.00 dBm 30 dB	Offset 2	2.02 dB 👄 R	BW 100 kH	z z Mode S	Sweep		2.4	-2.99 dBi
Spectrum Ref Level : Att SGL Count 1 1Pk Max	20.00 dBm 30 dB	Offset 2	2.02 dB 👄 R	BW 100 kH	z z Mode S	Sweep		2.4	-2.99 dBi
Spectrum Ref Level : Att SGL Count 1 1Pk Max	20.00 dBm 30 dB	Offset 2	2.02 dB 👄 R	BW 100 kH	z z Mode s M	Sweep 1[1]			-2.99 dBi
Spectrum Ref Level : Att SGL Count 1 1Pk Max 10 dBm	20.00 dBm 30 dB 00/100	Offset 2 SWT	2.02 dB 👄 R 1 ms 🖷 V	BW 100 kH BW 300 kH	z z Mode s M	Sweep 1[1]	KAJAMA IN		-2.99 dBi
Spectrum Ref Level : Att SGL Count 1 1Pk Max 10 dBm	20.00 dBm 30 dB 00/100	Offset 2 SWT	2.02 dB 👄 R	BW 100 kH BW 300 kH	z z Mode s M	Sweep	W MANNO		-2.99 dBi
Spectrum Ref Level : Att SGL Count 11 PIPk Max 10 dBm 0 dBm	20.00 dBm 30 dB 00/100	Offset 2 SWT	2.02 dB 👄 R 1 ms 🖷 V	BW 100 kH BW 300 kH	z z Mode s M	Sweep 1[1]	wywww		-2.99 dBi
Spectrum Ref Level : Att SGL Count 11 PIPk Max 10 dBm 0 dBm	20.00 dBm 30 dB 00/100	Offset 2 SWT	2.02 dB 👄 R 1 ms 🖷 V	BW 100 kH BW 300 kH	z z Mode s M	Sweep 1[1]	Wyhan		-2.99 dBi
Spectrum Ref Level : Att SGL Count 1 IPK Max 10 dBm 10 dBm 10 dBm	20.00 dBm 30 dB 00/100	Offset 2 SWT	2.02 dB 👄 R 1 ms 🖷 V	BW 100 kH BW 300 kH	z z Mode s M	Sweep 1[1]	W MAN		-2.99 dBi
Spectrum Ref Level : Att SGL Count 1 PIPk Max O dBm	20.00 dBm 30 dB 00/100	Offset 2 SWT	2.02 dB 👄 R 1 ms 🖷 V	BW 100 kH BW 300 kH	z z Mode s M	Sweep 1[1]	W JAN W		-2.99 dBr 126385 GH
Spectrum Ref Level : Att SGL Count 1 PIPk Max O dBm	20.00 dBm 30 dB 00/100	Offset 2 SWT	2.02 dB 👄 R 1 ms 🖷 V	BW 100 kH BW 300 kH	z z Mode s M	Sweep 1[1]	WWW		-2.99 dBi 126385 GH
Spectrum Ref Level : Att SGL Count 1 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm	20.00 dBm 30 dB 00/100	Offset 2 SWT	2.02 dB 👄 R 1 ms 🖷 V	BW 100 kH BW 300 kH	z z Mode s M	Sweep 1[1]	Wyhan		-2.99 dBr
Spectrum Ref Level : Att SGL Count 1 1Pk Max 10 dBm 10 dBm 10 dBm 20 dBm 30 dBm M	20.00 dBm 30 dB 00/100	Offset 2 SWT	2.02 dB 👄 R 1 ms 🖷 V	BW 100 kH BW 300 kH	z z Mode s M	Sweep 1[1]	Wyynwyw 		-2.99 dBi 126385 GH
Spectrum Ref Level : Att SGL Count 1 1Pk Max 10 dBm 10 dBm 10 dBm 20 dBm 30 dBm M	20.00 dBm 30 dB 00/100	Offset 2 SWT	2.02 dB 👄 R 1 ms 🖷 V	BW 100 kH BW 300 kH	z z Mode s M	Sweep 1[1]	My www.		-2.99 dBi 126385 GH
Spectrum Ref Level SGL Count 1 IPk Max ID dBm ID dB	20.00 dBm 30 dB 00/100	Offset 2 SWT	2.02 dB 👄 R 1 ms 🖷 V	BW 100 kH BW 300 kH	z z Mode s M	Sweep 1[1]			-2.99 dBr 126385 GH
Spectrum Ref Level SGL Count 1 IPk Max ID dBm ID dB	20.00 dBm 30 dB 00/100	Offset 2 SWT	2.02 dB 👄 R 1 ms 🖷 V	BW 100 kH BW 300 kH	z z Mode s M	Sweep 1[1]			-2.99 dBr 126385 GH
Spectrum Ref Level : Att SGL Count 11 11Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm	20.00 dBm 30 dB 00/100	Offset 2 SWT	2.02 dB 👄 R 1 ms 🖷 V	BW 100 kH BW 300 kH	z z Mode s M	Sweep 1[1]			-2.99 dBr 126385 GH
Spectrum Ref Level : Att SGL Count 11 11Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -50 dBm	20.00 dBm 30 dB 00/100	Offset 2 SWT	2.02 dB 👄 R 1 ms 🖷 V	BW 100 kH BW 300 kH	z z Mode s M	Sweep 1[1]			-2.99 dBi 126385 GH
Spectrum Ref Level Att SGL Count 1 IPK Max I0 dBm O dB	20.00 dBm 30 dB 00/100	Offset 2 SWT	2.02 dB 👄 R 1 ms 🖷 V	BW 100 kH BW 300 kH	z z Mode s M	Sweep 1[1]			-2.99 dBr 126385 GH
Spectrum Ref Level Att SGL Count 1 IPR Max I0 dBm O dB	20.00 dBm 30 dB 00/100	Offset 2 SWT	2.02 dB 👄 R 1 ms 🖷 V	BW 100 kH BW 300 kH	z Mode s	Sweep 1[1]		- And	-2.99 dBi 126385 GH
Spectrum Ref Level Att SGL Count 1 IPK Max I0 dBm O dB	20.00 dBm 30 dB 00/100	Offset 2 SWT	2.02 dB 👄 R 1 ms 🖷 V	BW 100 kH BW 300 kH	z Mode s	Sweep 1[1]		- And	-2.99 dBr 126385 GH

		1 SD IVINI	f g 2437MHz Ant1			G
Spectrum						1
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1Pk Max						
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- 1998-901-0011-0						
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-30 dBm					N.	
40 dBm					MAR.	
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r where					8 Y	han
-60 dBm						
-70 dBm	-					
CF 2.437 GHz		1	1001 pts		Span 24.597 M	MH:
1 M			Down Here		1503.502	2
te: 15.MAR.2023	14:23:52					
te: 15.MAR.2023	14:23:52	PSD NVN1	g 2462MHz Ant1			
	14:23:52	PSD NVN1	۲ g 2462MHz Ant1			
Spectrum			Γg 2462MHz Ant1			
Spectrum Ref Level 20.00 dB Att 30 d	m Offset 2.04		kHz			
Spectrum Ref Level 20.00 dB Att 30 o SGL Count 100/100	m Offset 2.04	dB 🖷 RBW 3	kHz			
Spectrum Ref Level 20.00 dB Att 30 d	m Offset 2.04	dB 🖷 RBW 3	kHz kHz Mode Sweep		-17.46	
Spectrum Ref Level 20.00 dB Att 30 (SGL Count 100/100 91Pk Max	m Offset 2.04	dB 🖷 RBW 3	kHz		-17.46 2.4585545	dB
Spectrum Ref Level 20.00 dB Att 30 o SGL Count 100/100	m Offset 2.04	dB 🖷 RBW 3	kHz kHz Mode Sweep			dB
Spectrum Ref Level 20.00 dB Att 30 (SGL Count 100/100 1Pk Max 10 dBm	m Offset 2.04	dB 🖷 RBW 3	kHz kHz Mode Sweep			dB
Spectrum Ref Level 20.00 dB Att 30 (SGL Count 100/100 91Pk Max	m Offset 2.04	dB 🖷 RBW 3	kHz kHz Mode Sweep			dB
Spectrum Ref Level 20.00 dB Att 30 0 SGL Count 100/100 91Pk Max 10 dBm 0 dBm	m Offset 2.04	dB 🖷 RBW 3	kHz kHz Mode Sweep			dBi
Spectrum Ref Level 20.00 dB Att 30 (SGL Count 100/100 1Pk Max 10 dBm	m Offset 2.04	dB 🖷 RBW 3	kHz kHz Mode Sweep			dB
Spectrum Ref Level 20.00 dB Att 30 d SGL Count 100/100 1PK Max 10 dBm -10 dBm	m Offset 2.04	MI	kHz kHz Mode Sweep M1[1]		2.4585545	dB
Spectrum Ref Level 20.00 dB Att 30 0 SGL Count 100/100 91Pk Max 10 dBm 0 dBm	m Offset 2.04	MI	kHz kHz Mode Sweep	M. Mapp	2.4585545	dB
Spectrum Ref Level 20.00 dB Att 30 d SGL Count 100/100 1PK Max 10 dBm -10 dBm	m Offset 2.04	MI	kHz kHz Mode Sweep M1[1]	M Walk	2.4585545	dB
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Spectrum Ref Level 20.00 dB Att 30 d SGL Count 100/100 1PK Max 10 dBm -10 dBm -20 dBm -30 dBm	m Offset 2.04	MI	kHz kHz Mode Sweep M1[1]	MMMM	2.4585545	dB i Gŀ
Spectrum Ref Level 20.00 dB Att 30 d SGL Count 100/100 1PK Max 10 dBm -10 dBm -20 dBm -30 dBm	m Offset 2.04	MI	kHz kHz Mode Sweep M1[1]	ph www	2.4585545	dBi i GH
Spectrum Ref Level 20.00 de Att 30 o SGL Count 100/100 P1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -	m Offset 2.04	MI	kHz kHz Mode Sweep M1[1]		2.4585545	i GH
Spectrum Ref Level 20.00 dB Att 30 o SGL Count 100/100 1Pk Max 10 dBm -10 dBm -20 dBm	m Offset 2.04	MI	kHz kHz Mode Sweep M1[1]	M. Maha	2.4585545	dBi i GH
Spectrum Ref Level 20.00 dB Att 30 d SGL Count 100/100 11PK Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -0 dBm -0 dBm -10 dBm	m Offset 2.04	MI	kHz kHz Mode Sweep M1[1]		2.4585545	dBi i GH
Spectrum Ref Level 20.00 de Att 30 o SGL Count 100/100 P1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -	m Offset 2.04	MI	kHz kHz Mode Sweep M1[1]		2.4585545	dBi i GH
Spectrum Ref Level 20.00 dB Att 30 d SGL Count 100/100 11PK Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -0 dBm -0 dBm -10 dBm	m Offset 2.04	MI	kHz kHz Mode Sweep M1[1]		2.4585545	dBi i GH
Spectrum Ref Level 20.00 dB Att 30 d SGL Count 100/100 11PK Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -0 dBm -0 dBm -10 dBm	m Offset 2.04	M1	kHz kHz Mode Sweep M1[1]		2.4585545	

TRF No.: 01-R001-3A-WIFI

PSD NVNT n20 2412MHz Ant1 Spectrum Ref Level 20.00 dBm Offset 2.02 dB 🖷 RBW 3 kHz 30 dB SWT 289 ms 🖷 VBW 10 kHz Mode Sweep Att SGL Count 100/100 1Pk Max -16.98 dBm 2.4054078 GHz M1[1] 10 dBm· 0 dBm -10 dBm M1 Manna -20 dBm -30 dBm 40 dBm m Anguarta 159 ABAR -60 dBm -70 dBm CF 2.412 GHz 1001 pts Span 25.9785 MHz Date: 15.MAR.2023 14:28:59 PSD NVNT n20 2437MHz Ant1 Spectrum 00 dBm Offset 2.03 dB RBW 3 kHz 30 dB SWT 289 ms VBW 10 kHz Mode Sweep Ref Level 20.00 dBm Att SGL Count 100/100 1Pk Max -17.19 dBm 2.4304153 GHz M1[1] 10 dBm· 0 dBm 10 dBm WWWWWWWWW -20 dBm alles Vu -30 dBn 40 dBr W. hourson -50 dBm 60 dBm -70 dBm CF 2.437 GHz 1001 pts Span 25.9515 MHz Date: 15.MAR.2023 14:31:36

PSD NVNT n20 2462MHz Ant1 Spectrum Ref Level 20.00 dBm Offset 2.04 dB 🖷 RBW 3 kHz 30 dB SWT 289 ms 🖷 VBW 10 kHz Mode Sweep Att SGL Count 100/100 1Pk Max -16.93 dBm 2.4554103 GHz M1[1] 10 dBm· 0 dBm -10 dBm M1 whiteman -20 dBm -30 dBm 40 dBm Tryportow -50 dBm -50 dBm--70 dBm-CF 2.462 GHz 1001 pts Span 25.9695 MHz Date: 15.MAR.2023 14:33:49 PSD NVNT n40 2422MHz Ant1 Spectrum 00 dBm Offset 2.02 dB RBW 3 kHz 30 dB SWT 562 ms VBW 10 kHz Ref Level 20.00 dBm Att Mode Sweep SGL Count 100/100 1Pk Max -18.24 dBm 2.4298290 GHz M1[1] 10 dBm· 0 dBm 10 dBm Minutation and Anticontent and Antication of Antices and Antices and Antices and Antices and Antices and Antices and the barry photo and a straight of the second second -20 dBm -30 dBm 40 dBm Wall Wy. -50 dBm 160 dBm MAMMAN -70 dBm CF 2.422 GHz 1001 pts Span 50.562 MHz Date: 15.MAR.2023 14:36:56

PSD NVNT n40 2437MHz Ant1 Spectrum Ref Level 20.00 dBm Offset 2.03 dB 🖷 RBW 3 kHz 30 dB SWT 570 ms 🖷 VBW 10 kHz Mode Sweep Att SGL Count 100/100 1Pk Max -18.48 dBm 2.4448360 GHz M1[1] 10 dBm· 0 dBm -10 dBm -20 dBm -30 dBm 40 dBm Try where they want 50 dBr M W HAN! 70 dBm CF 2.437 GHz 1001 pts Span 51.264 MHz Date: 15.MAR.2023 14:40:01 PSD NVNT n40 2452MHz Ant1 Spectrum 00 dBm Offset 2.04 dB RBW 3 kHz 30 dB SWT 559 ms VBW 10 kHz Ref Level 20.00 dBm Att Mode Sweep SGL Count 100/100 1Pk Max -18.23 dBm 2.4597900 GHz M1[1] 10 dBm· 0 dBm 10 dBm with a support of the support of the support of the support -20 dBm -30 dBm -40 dBm Ky -50 dBm Wald Manager HOUSE MAN -70 dBm CF 2.452 GHz 1001 pts Span 50.31 MHz Date: 15.MAR.2023 14:44:44

12. Antenna Port Emission

12.1Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	CALIBRATED UNTIL
Spectrum Analyzer	KEYSIGHT	N9020A	MY61250185	2023-10-07
RF Test Software	MWRF-test	MTS 8310	N/A	N/A
Radio Frequency control box	MWRF-test	MW200-RFCB	MW220111ANCI	2023-05-12

12.2Measuring Instruments and Setting

The following table is the setting of spectrum analyzer.

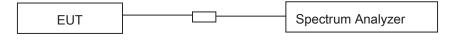
Spectrum analyzer	Setting
Attenuation	Auto
RB	100kHz
VB	300kHz
Detector	Peak
Trace	Max hold

12.3Test Procedures

The testing follows the Measurement Procedure of FCC KDB No. 558074 D01 15.247 Meas Guidance v05r02 .

The conducted spurious emissions were measured conducted using a spectrum analyzer at low, Middle, and high channels, the limit was determined by attenuation 20dB of the RF peak power output.

12.4Block Diagram of Test setup



12.5Test Result

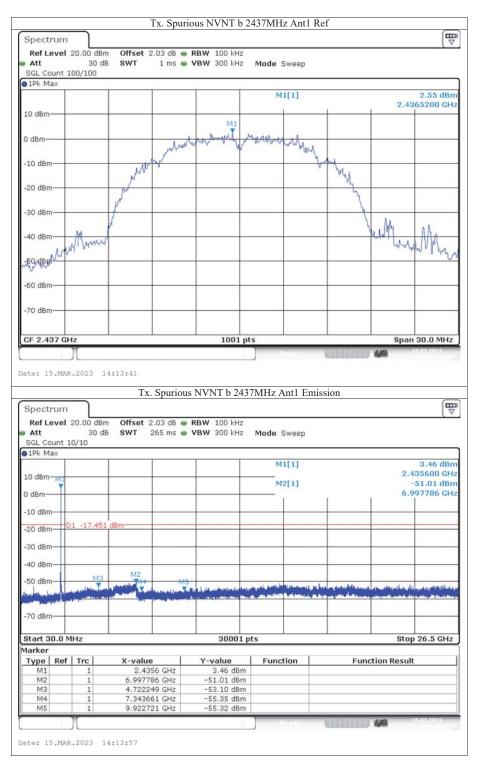
PASS.

Please refer to following pages.

		60 of 77 Repo	rt No.: E01A23021023F00302
Spectrum Detector:	PK	Test Date :	2023-03-15
Test By:	Big	Temperature :	26 ℃
Test Result:	PASS	Humidity :	60%

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-54.24	-20	Pass
NVNT	b	2437	Ant1	-53.56	-20	Pass
NVNT	b	2462	Ant1	-54.25	-20	Pass
NVNT	g	2412	Ant1	-47.41	-20	Pass
NVNT	g	2437	Ant1	-46.91	-20	Pass
NVNT	g	2462	Ant1	-47.12	-20	Pass
NVNT	n20	2412	Ant1	-47.16	-20	Pass
NVNT	n20	2437	Ant1	-47.23	-20	Pass
NVNT	n20	2462	Ant1	-46.31	-20	Pass
NVNT	n40	2422	Ant1	-44.17	-20	Pass
NVNT	n40	2437	Ant1	-44.18	-20	Pass
NVNT	n40	2452	Ant1	-44.47	-20	Pass

Test Graphs Tx. Spurious NVNT b 2412MHz Ant1 Ref Spectrum Offset 2.02 dB 🖷 RBW 100 kHz Ref Level 20.00 dBm Att 30 dB SWT 1 ms 🖷 VBW 300 kHz Mode Sweep SGL Count 100/100 3.74 dBm 2.4114910 GHz M1[1] 10 dBm MI no Mode 0 dBm marchel 24 -10 dBm 2 -20 dBm -30 dBm what to a man what montering 40 dBm wh -50 dBm -60 dBm -70 dBm Span 30.0 MHz CF 2.412 GHz 1001 pts Date: 15.MAR.2023 14:14:25 Tx. Spurious NVNT b 2412MHz Ant1 Emission Spectrum Ref Level 20.00 dBm Offset 2.02 dB 🖷 RBW 100 kHz SWT 265 ms 🖷 VBW 300 kHz Att 30 dB Mode Sweep SGL Count 10/10 • 1Pk Max 1.98 dBm 2.410900 GHz M1[1] 10 dBm-M2[1] -50.50 dBm 6.700440 GHz 0 dBm -10 dBm D1 -16.25 -20 dBm -30 dBm 40 dBm M2 -50 dBm-М 7 -70 dBm Stop 26.5 GHz Start 30.0 MHz 30001 pts Marker X-value 2.4109 GHz 6.70044 GHz 4.992243 GHz 7.099255 GHz Y-value 1.98 dBm -50.50 dBm -53.93 dBm -53.93 dBm -55.01 dBm Type Ref Trc Function Function Result M1 1 M2 M3 M4 9.498319 GHz M5 630 Date: 15.MAR.2023 14:14:41





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ate: 15.MAR.20	23 14:26:		s NVNT g 2412) Dendy 2MHz Ant1 F	Emission	1440	15.03.2023
	23 14:26:0		s NVNT g 2412) Errette 2MHz Ant1 H	Emission	j 4 90	15.03.2022
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Spectrum Ref Level 20.0	00 dBm Off		RBW 100 kHz			4,454	15 02 2022 V
Spectrum Ref Level 20.0 Att	00 dBm Off 30 dB SW	Tx. Spuriou	RBW 100 kHz) Sentra 2MHz Anti I Mode Sweep		1.00	((
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Spectrum Ref Level 20.0 Att SGL Count 10/10	00 dBm Off 30 dB SW	Tx. Spuriou	RBW 100 kHz			1 4/4	-3.07 dBn
Spectrum Ref Level 20.0 Att SGL Count 10/10 1Pk Max	00 dBm Off 30 dB SW	Tx. Spuriou	RBW 100 kHz	Mode Sweep M1[1]		2.	-3.07 dBn 412660 GH:
Spectrum Ref Level 20.0 Att SGL Count 10/10)1Pk Max	00 dBm Off 30 dB SW	Tx. Spuriou	RBW 100 kHz	Mode Sweep			-3.07 dBn 412660 GH -49.53 dBn
Spectrum Ref Level 20.0 Att SGL Count 10/10 1Pk Max 10 dBm 0 dBm 10 dBm	00 dBm Off 30 dB SW	Tx. Spuriou	RBW 100 kHz	Mode Sweep M1[1]			-3.07 dBn 412660 GH -49.53 dBn
Spectrum Ref Level 20.0 Att SGL Count 10/10 1Pk Max 10 dBm M1 0 dBm	00 dBm Off 30 dB SW	Tx. Spuriou	RBW 100 kHz	Mode Sweep M1[1]			-3.07 dBn 412660 GH -49.53 dBn
Spectrum Ref Level 20.0 Att SGL Count 10/10 1Pk Max 10 dBm 10 dBm 10 dBm 10 dBm	DO dBm Off 30 dB SW	Tx. Spuriou	RBW 100 kHz	Mode Sweep M1[1]			-3.07 dBn 412660 GH -49.53 dBn
Spectrum Ref Level 20.0 Att SGL Count 10/10 10k Max 10 dBm 10 dBm -10 dBm -20 dBm D1 -3	DO dBm Off 30 dB SW	Tx. Spuriou	RBW 100 kHz	Mode Sweep M1[1]			-3.07 dBn 412660 GH -49.53 dBn
Spectrum Ref Level 20.0 Att SGL Count 10/10 10k Max 10 dBm 10 dBm -10 dBm -20 dBm D1 -3	DO dBm Off 30 dB SW	Tx. Spuriou	RBW 100 kHz	Mode Sweep M1[1]			-3.07 dBn 412660 GH -49.53 dBn
Spectrum Ref Level 20.0 Att SGL Count 10/10 10 HBM 0 dBm 10 dBm 10 dBm 20 dBm 11 dBm 20 dBm 11 4 30 dBm	22.107 dBm	Tx. Spuriou:	RBW 100 kHz	Mode Sweep M1[1]			-3.07 dBn 412660 GH -49.53 dBn
Spectrum Ref Level 20.0 Att SGL Count 10/10 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -20 dBm -40 dBm	22.107 dBm	Tx. Spuriou	RBW 100 kHz VBW 300 kHz	Mode Sweep		6.	-3.07 dBm -412660 GHz -49.53 dBm 823084 GHz
Spectrum Ref Level 20.0 Att SGL Count 10/10 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -20 dBm -40 dBm	22.107 dBm	Tx. Spuriou:	RBW 100 kHz VBW 300 kHz	Mode Sweep		6.	-3.07 dBn -412660 GH -49.53 dBn 823084 GH;
Spectrum Ref Level 20.0 Att SGL Count 10/10 1Pk Max 10 dBm -10 dBm -10 dBm -20 dBm -20 dBm -40 dBm	22.107 dBm	Tx. Spuriou:	RBW 100 kHz VBW 300 kHz	Mode Sweep		6.	-3.07 dBn -412660 GH -49.53 dBn 823084 GH;
Spectrum Ref Level 20.0 Att SGL Count 10/10 1Pk Max 10 dBm 10 dBm 10 dBm 20 dBm D1 4 30 dBm 40 dBm 50 dBm	22.107 dBm	Tx. Spuriou:	RBW 100 kHz VBW 300 kHz	Mode Sweep		6.	-3.07 dBn -412660 GH -49.53 dBn 823084 GH;
Spectrum Ref Level 20.0 Att SGL Count 10/10 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm D1 -3 30 dBm -40 dBm -50 dBm	22.107 dBm	Tx. Spuriou:	RBW 100 kHz VBW 300 kHz	Mode Sweep		6.	-3.07 dBn -412660 GH -49.53 dBn 823084 GH;
Spectrum Ref Level 20.0 Att SGL Count 10/10 IPk Max 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -70 dBm	22.107 dBm	Tx. Spuriou:	RBW 100 kHz VBW 300 kHz	Mode Sweep M1[1] 		6.	-3.07 dBn -412660 GH -49.53 dBn 823084 GH;
Spectrum Ref Level 20.0 Att SGL Count 10/10 SGL Count 10/10 10/10 1Pk Max 10 0 dBm 10 0 dBm 01 -0 -0 -10 dBm -0 -0 -0 -20 dBm -0 -0 -0 -30 dBm -0 -0 -0 -70 dBm -70 -70 -70 Start 30.0 MHz -70 -70 -70	22.107 dBm M3	Tx. Spuriou:	RBW 100 kHz VBW 300 kHz	Mode Sweep M1[1] _		6.	-3.07 dBn 412660 GH: -49.53 dBn 823084 GH:
Spectrum Ref Level 20.0 Att SGL Count 10/10 IPk Max 10 dBm 10 dBm -10 dBm -20 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm Start 30.0 MHz Type Ref	22.107 dBm M3 dB SW 0 22.107 dBm M3 ft M3 ft C X-	Tx. Spuriou:	RBW 100 kHz VBW 300 kHz	Mode Sweep M1[1] 		6.	-3.07 dBn 412660 GH: -49.53 dBn 823084 GH:
Spectrum Ref Level 20.0 Att SGL Count 10/11 SGL Count 10/11 10 ID dBm	22.107 dBm M2 M2 C X- 1	Tx. Spuriou:	RBW 100 kHz VBW 300 kHz	Mode Sweep M1[1] _		6.	-3.07 dBn 412660 GH: -49.53 dBn 823084 GH:
Att SGL Count 10/10 1Pk Max 10 dBm 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -50 dBm -70 dBm Start 30.0 MHz Type Ref	C X- 1 6	Tx. Spuriou:	RBW 100 kHz VBW 300 kHz	Mode Sweep M1[1] _		6.	-3.07 dBn 412660 GH: -49.53 dBn 823084 GH:
Spectrum Ref Level 20.0 Att SGL Count 10/11 SGL Count 10/11 10/11 10 dBm	22.107 dBm M3 0 dB SW 22.107 dBm M3 0 M3 0	Tx. Spuriou:	RBW 100 kHz VBW 300 kHz	Mode Sweep M1[1] _		6.	-3.07 dBn 412660 GH: -49.53 dBn 823084 GH:
Spectrum Ref Level 20.0 Att SGL Count 10/10 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -10 dBm	22.107 dBm M3 0 dB SW 22.107 dBm M3 0 M3 0	Tx. Spuriou:	RBW 100 kHz VBW 300 kHz 	Mode Sweep M1[1] _	Fur	6.	-3.07 dBn 412660 GH: -49.53 dBn 823084 GH:
Spectrum Ref Level 20.0 Att SGL Count 10/10 IPK Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm	22.107 dBm M3 0 dB SW 22.107 dBm M3 0 M3 0	Tx. Spuriou:	RBW 100 kHz VBW 300 kHz	Mode Sweep M1[1] _		6.	-3.07 dBn 412660 GH: -49.53 dBn 823084 GH:

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Spectrum Ref Level 20.00 Att 34	Tx. Spurid	ous NVNT g 2437	Ready	iission	ji dya	15.63.2623
Spectrum Ref Level 20.00 Att 31 SGL Count 10/10	Tx. Spurid	ous NVNT g 2437	Ponto MHz Ant1 Em	iission	U 444	15.63.2623
Spectrum Ref Level 20.00 Att 31 SGL Count 10/10	Tx. Spurid	ous NVNT g 2437	MHz Antl Em	iission	U 444	15.83.2623
Spectrum Ref Level 20.00 Att 30 SGL Count 10/10 91Pk Max	Tx. Spurid	ous NVNT g 2437	Ponto MHz Ant1 Em	iission	4,40	-3.31 dBn
Spectrum Ref Level 20.00 Att 3/d SGL Count 10/10 1/Pk Max	Tx. Spurid	ous NVNT g 2437	MHz Antl Em	ission	2	-3.31 dBn -436480 GH -49.91 dBn
Spectrum Ref Level 20.00 Att 3/ SGL Count 10/10 11Pk Max	Tx. Spurid	ous NVNT g 2437	MHz Ant1 Em Mode Sweep	ission	2	-3.31 dBr -49.91 dBr
Spectrum Ref Level 20.00 Att 31 SGL Count 10/10 01Pk Max 10 dBm 0 dBm	Tx. Spurid	ous NVNT g 2437	MHz Ant1 Em Mode Sweep	ission	2	-3.31 dBr -49.91 dBr
Spectrum Ref Level 20.00 Att 30 SGL Count 10/10 P1Pk Max 10 dBm 10 -10 dBm 10	Tx. Spurid	ous NVNT g 2437	MHz Ant1 Em Mode Sweep	iission	2	-3.31 dBr -49.91 dBr
Spectrum Ref Level 20.00 Att 30 SGL Count 10/10 PIPk Max 10 dBm -10 dBm	Tx. Spurio	ous NVNT g 2437	MHz Ant1 Em Mode Sweep	dission	2	-3.31 dBn -436480 GH -49.91 dBn 954552 GH
Atte: 15.MAR.2023 Spectrum	Tx. Spurio	ous NVNT g 2437	MHz Ant1 Em Mode Sweep	ission	2	-3.31 dBn -436480 GH -49.91 dBn
Ate: 15.MAR.2023 Spectrum Ref Level 20.00 Att 31 SGL Count 10/10 10 HR Max 10 dBm 10 dBm -10 dBm -10 dBm -20 dBm D1 -22. -30 dBm -22.	Tx. Spurio	ous NVNT g 2437	MHz Ant1 Em Mode Sweep	ission	2	-3.31 dBn -436480 GH -49.91 dBn
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Atte: 15.MAR.2023 Spectrum Ref Level 20.00 Att 31 SGL Count 10/10 11Pk Max 10 dBm 10 -10 dBm -10 -20 dBm -12.22. -30 dBm -12.22. -50 dBm -12.22.	Tx. Spurio	ous NVNT g 2437	MHz Antl Em		2 6	-3.31 dBn -436480 GH -49.91 dBn 954552 GH
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Ate: 15.MAR.2023 Spectrum	Tx. Spurio	ous NVNT g 2437	MHz Antl Em		2 6	-3.31 dBn -436480 GH -49.91 dBn 954552 GH
Atte: 15.MAR.2023 Spectrum Ref Level 20.00 Att 30 SGL Count 10/10 10 Hk Max 10 dBm 10 -10 dBm -10 -22. -30 dBm -10 -22. -30 dBm -10 -22. -70 dBm -10 -22.	Tx. Spurio	Dus NVNT g 2437	MHz Anti Em		2	-3.31 dBn .436480 GH .436480 GH .954552 GH
Atte: 15.MAR.2023 Spectrum Ref Level 20.00 Att 31 SGL Count 10/10 1Pk Max 10 dBm 10 -10 dBm -10 dBm -20 dBm D1 -22. -30 dBm -10 -22. -30 dBm -10 -22. -50 dBm -70 dBm -70 dBm -70 dBm	Tx. Spurio	ous NVNT g 2437	MHz Anti Em		2	-3.31 dBn .436480 GH .436480 GH .954552 GH
Atte: 15.MAR.2023 Spectrum Ref Level 20.00 Att 31 SGL Count 10/10 11Pk Max 10 dBm 10 -10 dBm -10 -20 dBm -1 -20 dBm -1 -20 dBm -1 -20 dBm -1 -20 dBm -2 -30 dBm -2 -50 dBm -2 -70 dBm -7 -70 dBm -7 Start 30.0 MHz -1	Tx. Spurio	Dus NVNT g 2437	MHz Anti Em		2	-3.31 dBn .436480 GH .436480 GH .436480 GH .954552 GH
Atte: 15.MAR.2023 Spectrum Ref Level 20.00 Att 30 SGL Count 10/10 114 10 dBm 10 -10 dBm -10 -20 dBm D1 -22. -30 dBm -10 -70 dBm -10	Tx. Spurie dBm Offset 2.03 dB 0 dB SWT 265 ms 990 dBm 990 dBm 990 dBm M3 M2 990 dBm M4 990 dBm 990 dBm	• RBW 100 kHz • RBW 100 kHz • VBW 300 kHz	MHz Anti Em		2 6	-3.31 dBn .436480 GH .436480 GH .436480 GH .954552 GH
Atte: 15.MAR.2023 Spectrum Ref Level 20.00 Att 31 SGL Count 10/10 1Pk Max 10 dBm 10 -10 dBm	Tx. Spurie dBm Offset 2.03 dB 0 dB SWT 265 ms 990 dBm	Bus NVNT g 24371 RBW 100 kHz VBW 300 kHz	MHz Anti Em		2 6	-3.31 dBn .436480 GH .436480 GH .436480 GH .954552 GH
Atte: 15.MAR.2023 Spectrum Ref Level 20.00 Att 31 SGL Count 10/10 IPK Max 10 dBm 10 10 dBm 10 -10 dBm -10 -20 dBm -11 <tr< td=""><td>Tx. Spurie dBm Offset 2.03 dB 0 dB SWT 265 ms 990 dBm 990 dBm 990 dBm 44 M2 990 dBm 54 M2 990 dBm 54 M2 990 dBm 54 M2 990 dBm 55 GH2 990 dBm 56 SK448 GH2 6.954552 GH2 4.88901 GH2 4.88901 GH2</td><td>BBW 100 kHz RBW 100 kHz VBW 300 kHz VBW 300 kHz 30001 pts -3.31 dBm -49.91 dBm -53.98 dBm</td><td>MHz Anti Em</td><td></td><td>2 6</td><td>-3.31 dBn .436480 GH .436480 GH .436480 GH .954552 GH</td></tr<>	Tx. Spurie dBm Offset 2.03 dB 0 dB SWT 265 ms 990 dBm 990 dBm 990 dBm 44 M2 990 dBm 54 M2 990 dBm 54 M2 990 dBm 54 M2 990 dBm 55 GH2 990 dBm 56 SK448 GH2 6.954552 GH2 4.88901 GH2 4.88901 GH2	BBW 100 kHz RBW 100 kHz VBW 300 kHz VBW 300 kHz 30001 pts -3.31 dBm -49.91 dBm -53.98 dBm	MHz Anti Em		2 6	-3.31 dBn .436480 GH .436480 GH .436480 GH .954552 GH
Atte: 15.MAR.2023 Spectrum Ref Level 20.00 Att 31 SGL Count 10/10 11PK Max 10 dBm 10 -10 dBm -10 -20 dBm -11 -20 dBm -12 -30 dBm -12 -20 dBm -12 -30 dBm -12	Tx. Spurie dBm Offset 2.03 dB 0 dB SWT 265 ms 990 dBm	Bus NVNT g 24371 RBW 100 kHz VBW 300 kHz	MHz Anti Em		2 6	-3.31 dBn .436480 GH .436480 GH .436480 GH .954552 GH
Atte: 15.MAR.2023 Spectrum Ref Level 20.00 Att 30 SGL Count 10/10 10 HPk Max 10 dBm 10 -10 dBm -10 -20 dBm D1 -22. -30 dBm -10 -22. -70 dBm -10 -22. -70 dBm -10 -22. -70 dBm -11 -22.	Tx. Spurie dBm Offset 2.03 dB 0 dB SWT 265 ms 990 dBm 990 dBm 990 dBm M3 M2 990 dBm M4 990 dBm 990 dBm M3 M2 990 dBm M3 990 dBm 990 dBm M4 990 dBm 990 dBm M3 990 dBm 990 dBm M3	• RBW 100 kHz • RBW 100 kHz • VBW 300 kHz	MHz Anti Em		2 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	-3.31 dBn .436480 GH .436480 GH .436480 GH .954552 GH

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Spectrum Ref Level 20 Att SGL Count 10/ 1Pk Max	2023 14	Tx. S)4 dB 🖷 🖪	NVNT g 240	52MHz A Mode s	Sweep	ission			-3.14 dBr -3.14 dBr -50.07 dBr 52.498 GH
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Spectrum Ref Level 20 Att SGL Count 10/ 1Pk Max 10 dBm -10 dBm -20 dBm	2023 14 0.00 dBm 30 dB /10	Tx. S Offset 2.0 SWT 26)4 dB 🖷 🖪	NVNT g 240	52MHz A Mode s	Sweep 1[1] 2[1]			6.7	-3.14 dBr 661190 GH 50.07 dBr 52498 GH
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Spectrum Ref Level 20 Att SGL Count 10 PIPK Max O dBm	2023 14 0.00 dBm 30 dB /10 -22.943	Tx. S Offset 2.0 SWT 26)4 dB 🖷 🖪	NVNT g 240 RBW 100 kHz /BW 300 kHz	52MHz A Mode S M	Sweep 1[1] 2[1]			6.7	-3.14 dBr 661190 GH 50.07 dBr 52498 GH
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Spectrum Ref Level 20 Att SGL Count 10/ 11Pk Max 10 dBm 10	2023 14 2023 14 30 dB 30 dB /10 -22.943 	Tx. S Offset 2.0 SWT 26)4 dB 🖷 🖪	NVNT g 240	52MHz A Mode S Mode S	Sweep 1[1] 2[1]			6.7	-3.14 dBr 61190 GH 50.07 dBr 52498 GH
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Atte: 15.MAR.2 Spectrum Ref Level 20 Att SGL Count 10/ SGL Count 10/ 10 dBm 10 dBm 0 10 dBm 0 -10 dBm 0 -20 dBm D1 -30 dBm -0 -40 dBm -0	2023 14 2023 14 30 dB 30 dB /10 -22.943 	Tx. S Offset 2.0 SWT 26	14 dB • R 5 ms • V	NVNT g 240	52MHz A Mode S M M M M M M M M M M M M M M M M M M M	Sweep 1[1] 2[1]			6.7	-3.14 dBr 61190 GH 50.07 dBr 52498 GH
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Atte: 15.MAR.2 Spectrum Ref Level 20 Att SGL Count 10/ 1Pk Max 10/ 0 dBm M1 -10 dBm -10 -20 dBm D1 -30 dBm -01 -70 dBm -01 -70 dB	2023 14 2023 14 2023 14 30 dB 30 dB 10 -22.943 -22.943 M3 M3 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	Tx. S Offset 2.0 SWT 26	M5 GHz GHz GHz GHz GHz GHz	NVNT g 244 RBW 100 kHz /BW 300 kHz 300 kHz 	52MHz A Mode S M M M M M M M M M M M M M M M M M M M	Sweep 1[1] 2[1]			6.7	-3.14 dBr 61190 GH 50.07 dBr 52498 GH
Atte: 15.MAR.2 Spectrum Ref Level 20 Att SGL Count 10/ SGL Count 10/ 10 dBm 10 dBm	2023 14 2023 14 30 dB /10 -22.943 	Tx. S Offset 2.0 SWT 26	M5 GHz GHz GHz GHz GHz GHz	NVNT g 244 KBW 100 kHz /BW 300 kHz //BW 3	52MHz A Mode S M M M M M M M M M M M M M M M M M M M	Sweep 1[1] 2[1]		unction	6.7	-3.14 dBr 61190 GH 50.07 dBr 52498 GH

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		NVNT n20 24	Readÿ	Emission	j 4961	(5.82202)
Spectrum	Tx. Spurious	NVNT n20 24	Readÿ	Emission	J 440	15.02.2023
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Spectrum Ref Level 20.00 dBr Att 30 d SGL Count 10/10 1Pk Max	Tx. Spurious	NVNT n20 24	12MHz Antl F Mode Sweep M1[1]	Emission	2.	-3.16 dBr 410010 GH
Spectrum Ref Level 20.00 dBr Att 30 d SGL Count 10/10 D1Pk Max	Tx. Spurious	NVNT n20 24) Construction 12MHz Ant1 E Mode Sweep	Emission		-3.16 dBr 410010 GH -49.77 dBr
Spectrum Ref Level 20.00 dBr Att 30 d SGL Count 10/10 D1Pk Max	Tx. Spurious	NVNT n20 24	12MHz Antl F Mode Sweep M1[1]	Emission		-3.16 dBr 410010 GH -49.77 dBr 89.5730 GH
Spectrum Ref Level 20.00 dBi Att 30 d SGL Count 10/10 10Pk Max 10 dBm M1 0 dBm	Tx. Spurious	NVNT n20 24	12MHz Antl F Mode Sweep M1[1]	Emission		-3.16 dBr 410010 GH -49.77 dBr
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Spectrum Ref Level 20.00 dBa Att 30 d SGL Count 10/10 10 HBM 0 dBm 10 dBm	Tx. Spurious	NVNT n20 24	12MHz Antl F Mode Sweep M1[1]	Emission		-3.16 dBr 410010 GH -49.77 dBr
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Spectrum Ref Level 20.00 dBr Att 30 d SGL Count 10/10 10 HPK Max 10 dBm 10 dBm 20 dBm D1 -22.611	Tx. Spurious	NVNT n20 24	12MHz Antl F Mode Sweep M1[1]	Emission		-3.16 dBr 410010 GH -49.77 dBr
Spectrum Ref Level 20.00 dBr Att 30 d SGL Count 10/10 10 HPK Max 10 dBm 10 dBm 20 dBm D1 -22.611	Tx. Spurious	NVNT n20 24	12MHz Antl F Mode Sweep M1[1]	Emission		-3.16 dBr 410010 GH -49.77 dBr
Spectrum Ref Level 20.00 dBr Att 30 d SGL Count 10/10 11PK Max 10 dBm 10 dBm 20 dBm D1 -22.611 30 dBm 40 dBm	Tx. Spurious	NVNT n20 24	12MHz Antl F Mode Sweep M1[1]	Emission		-3.16 dBr 410010 GH -49.77 dBr
Spectrum Ref Level 20.00 dBr Att 30 d SGL Count 10/10 11PK Max 10 dBm 10 dBm 20 dBm D1 -22.611 30 dBm 40 dBm	Tx. Spurious	NVNT n20 24	12MHz Antl F Mode Sweep M1[1]	Emission		-3.16 dBr 410010 GH -49.77 dBr
Spectrum Ref Level 20.00 dBi Att 30 d SGL Count 10/10 11Pk Max 10 dBm 10	Tx. Spurious	NVNT n20 24	12MHz Antl F Mode Sweep M1[1]	Emission		-3.16 dBr 410010 GH -49.77 dBr
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Spectrum Ref Level 20.00 dBa Att 30 d SGL Count 10/10 11Pk Max L0 dBm 0 dBm 10 dBm 20 dBm 20 dBm 40 dBm 40 dBm 30 dBm 40 dBm 70 dBm	Tx. Spurious	NVNT n20 24	Mode Sweep	Emission	6.	-3.16 dBr 410010 GH -49.77 dBr 885730 GH
Spectrum Ref Level 20.00 dBr Att 30 d SG Count 10/10 PIPk Max 10 dBm 10 dBm </td <td>Tx. Spurious</td> <td>NVNT n20 24</td> <td>12MHz Antl F</td> <td></td> <td>6.</td> <td>-3.16 dBr 410010 GH -49.77 dBr 885730 GH</td>	Tx. Spurious	NVNT n20 24	12MHz Antl F		6.	-3.16 dBr 410010 GH -49.77 dBr 885730 GH
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Spectrum Ref Level 20.00 dBa Att 30 d SGL Count 10/10 11Pk Max 10 10 dBm 10 10 dBm 10 20 dBm D1 20 dBm D1 30 dBm 40 dBm 40 dBm 10 30 dBm 10 40 dBm 10	X. Spurious m Offset 2.02 dB B B SWT 265 ms B 0 dBm B B B B 1 A B	NVNT n20 24 RBW 100 kHz VBW 300 kHz 	12MHz Antl F		6.	-3.16 dBr 410010 GH -49.77 dBr 885730 GH
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Spectrum Ref Level 20.00 Att 30 SGL Count 10/10 91Pk Max 10 dBm	Tx. Spurio dBm Offset 2.03 dB	RBW 100 kHz	Mode Sweep	mission		-3.36 dBr 440010 GH -50.20 dBr
Spectrum Ref Level 20.00 Att 30 SGL Count 10/10 91Pk Max 10 dBm	Tx. Spurio dBm Offset 2.03 dB	RBW 100 kHz	Mode Sweep	mission		-3.36 dBn 440010 GH
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Spectrum Ref Level 20.00 Att 3: SGL Count 10/10 1PK Max 10 dBm -10 dBm	Tx. Spurio	RBW 100 kHz	Mode Sweep	mission		-3.36 dBn 440010 GH -50.20 dBn
Spectrum Ref Level 20.00 Att 30 SGL count 10/10 PIPk Max 10 dBm -10 dBm -20 dBm D1 -22.	Tx. Spurio	RBW 100 kHz	Mode Sweep	mission		-3.36 dBn 440010 GH -50.20 dBn
Spectrum Ref Level 20.00 Att 3(SGL Count 10/10 1Pk Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm	Tx. Spurio	RBW 100 kHz	Mode Sweep	mission		-3.36 dBn 440010 GH -50.20 dBn
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Spectrum Ref Level 20.00 Att 3(SGL Count 10/10 1PK Max 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm	Tx. Spurio	RBW 100 kHz	Mode Sweep M1[1] M2[1] 	mission	15.	-3.36 dBn 440010 GH -50.20 dBn
Spectrum Ref Level 20.00 Att 31 SGL Count 10/10 1Pk Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Tx. Spurio	RBW 100 kHz	Mode Sweep M1[1] M2[1] 		15.	-3.36 dBn 440010 GH -50.20 dBn
Spectrum Ref Level 20.00 Att 30 SGL Count 10/10 1Pk Max 10 dBm 10 dBm 10 dBm 20 dBm 10 dBm 1	Tx. Spurio	RBW 100 kHz	Mode Sweep M1[1] M2[1] 		15.	-3.36 dBn 440010 GH -50.20 dBn
Spectrum Ref Level 20.00 Att 30 SGL Count 10/10 PIPk Max 10 dBm 10 dBm 10 dBm 20 dBm D1 -22 30 dBm 40 dBm 150	Tx. Spurio	RBW 100 kHz	Mode Sweep M1[1] M2[1] 		15.	-3.36 dBn 440010 GH -50.20 dBn
Spectrum Ref Level 20.00 Att 30 SGL Count 10/10 IPF Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm	Tx. Spurio	RBW 100 kHz	Mode Sweep			-3.36 dBr 440010 GH -50.20 dBr
Spectrum Ref Level 20.00 Att 30 SGL Count 10/10 1Pk Max 10 dBm -10 dBm -20 dBm -10 dBm -20 dBm -10 dBm -70 dB	Tx. Spurio	RBW 100 kHz VBW 300 kHz	Mode Sweep			-3.36 dBn 440010 GH -50.20 dBn 717887 GH
Spectrum Ref Level 20.00 Att 30 SGL Count 10/10 1Pk Max 10 dBm -10 dBm -20 dBm -10 dBm -20 dBm -10 dBm -20 dBm -10 dBm <	Tx. Spurio	RBW 100 kHz VBW 300 kHz	Mode Sweep			-3.36 dBn 440010 GH -50.20 dBn 717887 GH
Spectrum Ref Level 20.00 Att 33 SGL Count 10/10 IPK Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm	Tx. Spurio dBm Offset 2.03 dB 0 dB SWT 265 ms 962 dBm 962 dBm X-value 2.44001 GHz	RBW 100 kHz VBW 300 kHz	Mode Sweep M1[1] N2[1] M2 M2 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4		15.	-3.36 dBn 440010 GH -50.20 dBn 717887 GH
Spectrum Ref Level 20.00 Att 31 SGL Count 10/10 10/10 1PK Max 10 10 dBm 10 0 dBm 10 -10 dBm	Tx. Spurio dBm Offset 2.03 dB 0 dB SWT 265 ms 962 dBm	RBW 100 kHz VBW 300 kHz VBW 300 kHz 300 kHz 3000 tp 30001 p Y-value -3.36 dBm -50.20 dBm	Mode Sweep M1[1] N2[1] M2 M2 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4		15.	-3.36 dBn 440010 GH -50.20 dBn 717887 GH
Spectrum Ref Level 20.00 Att 30 SGL Count 10/10 1Pk Max 10 dBm 10 dBm -10 dBm -20 dBm -10 dBm -30 dBm -40 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm -70 dBm Start 30.0 MHz Tarker Type Ref M1 1 M2 1	Tx. Spurio dBm Offset 2.03 dB 0 dB SWT 265 ms 962 dBm	RBW 100 kHz VBW 300 kHz VBW 300 kHz 300 kHz 30001 Y-value -3.36 dBm -50.20 dBm -50.45 dBm	Mode Sweep M1[1] N2[1] M2 M2 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4		15.	-3.36 dBn 440010 GH -50.20 dBn 717887 GH
Spectrum Ref Level 20.00 Att 31 SGL Count 10/10 10/10 1PK Max 10 10 dBm 10 0 dBm 10 -10 dBm	Tx. Spurio dBm Offset 2.03 dB 0 dB SWT 265 ms 962 dBm	RBW 100 kHz VBW 300 kHz VBW 300 kHz 300 kHz 3000 tp 30001 p Y-value -3.36 dBm -50.20 dBm	Mode Sweep M1[1] N2[1] M2 M2 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4		15.	-3.36 dBn 440010 GH -50.20 dBn 717887 GH
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Tx. Spurious NVNT n40 2422MHz Ant1 Ref Spectrum Ref Level 20.00 dBm Offset 2.02 dB 📾 RBW 100 kHz 1.1 ms 🖷 VBW 300 kHz Att 30 dB SWT Mode Sweep SGL Count 100/100 • 1Pk Max M1[1] -6.02 dBm 2.4323700 GHz 10 dBm· 0 dBm M1 www.pellylajly.but.naugib word work of the work of the second of the Montalallanam -10 dBm wheth N -20 dBm -30 dBm And Marken Charles and And s. -50 dBm -60 dBm -70 dBm-CF 2.422 GHz 1001 pts Span 60.0 MHz Date: 15.MAR.2023 14:37:17 Tx. Spurious NVNT n40 2422MHz Ant1 Emission Spectrum 00 dBm Offset 2.02 dB RBW 100 kHz 30 dB SWT 265 ms VBW 300 kHz Mode Sweep Ref Level 20.00 dBm Att SGL Count 10/10 1Pk Max M1[1] -6.40 dBm 2.420600 GHz 10 dBm M2[1] -50.19 dBm 16.053173 GHz 0 dBn -10 dBm--20 dBm D1 -26.018 -30 dBm-40 dBm--50 dBm M Υ. AT. 12,1 de aluti -70 dBm-Start 30.0 MHz 30001 pts Stop 26.5 GHz Marker Type | Ref | Trc | Function Function Result X-value Y-value 2.4206 GHz 16.053173 GHz -6.40 dBm -50.19 dBm M1 M2 1 M3 M4 4.922538 GHz 7.341014 GHz -53.92 dBm -54.38 dBm M5 9.551259 GHz -55.31 dBm 100 Date: 15.MAR.2023 14:37:32

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Atte: 15.MAR.2023 Spectrum Ref Level 20.00 dB Att 30 dS SGL Count 10/10 10 HR Max 10 dBm 10 dBm -10 dBm -10 dBm -20 dBm -10 -25.86 -30 dBm -01 -25.86 -40 dBm -01 -25.86 -50 dBm -01 -25.86 -70 dBm -01 -25.86 </td <td>Tx. Spurious m Offset 2.03 dB # JB SWT 265 ms # SWT 265 ms # # S dBm # # # S dBm # # # # S dBm #<td>NVNT n40 243 RBW 100 kHz VBW 300 kHz BUILD ALL ALL ALL ALL ALL ALL ALL ALL ALL A</td><td>Presente 7MHz Ant1 Er Mode Sweep </td><td></td><td>19</td><td>-6.32 dBr -50.05 dBr 872794 GH</td></td>	Tx. Spurious m Offset 2.03 dB # JB SWT 265 ms # SWT 265 ms # # S dBm # # # S dBm # # # # S dBm # <td>NVNT n40 243 RBW 100 kHz VBW 300 kHz BUILD ALL ALL ALL ALL ALL ALL ALL ALL ALL A</td> <td>Presente 7MHz Ant1 Er Mode Sweep </td> <td></td> <td>19</td> <td>-6.32 dBr -50.05 dBr 872794 GH</td>	NVNT n40 243 RBW 100 kHz VBW 300 kHz BUILD ALL ALL ALL ALL ALL ALL ALL ALL ALL A	Presente 7MHz Ant1 Er Mode Sweep		19	-6.32 dBr -50.05 dBr 872794 GH
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Tx. Spurious NVNT n40 2452MHz Ant1 Ref Spectrum Ref Level 20.00 dBm Offset 2.04 dB 📾 RBW 100 kHz 1.1 ms 🖷 VBW 300 kHz Att 30 dB SWT Mode Sweep SGL Count 100/100 • 1Pk Max M1[1] -6.08 dBm 2.4555360 GHz 10 dBm· 0 dBm M1 risered Manager Michael Mineral and Andrew Constant all was a superior description of the superior -10 dBm -20 dBm -30 dBm The Allowinder and and hildrend 40 dBm 456 dBm -60 dBm -70 dBm-CF 2.452 GHz 1001 pts Span 60.0 MHz Date: 15.MAR.2023 14:42:54 Tx. Spurious NVNT n40 2452MHz Ant1 Emission Spectrum 00 dBm Offset 2.04 dB RBW 100 kHz 30 dB SWT 265 ms VBW 300 kHz Mode Sweep Ref Level 20.00 dBm Att SGL Count 10/10 1Pk Max -6.75 dBm 2.463840 GHz M1[1] 10 dBm M2[1] -50.55 dBm 6.896318 GHz 0 dBr -10 dBm--20 dBm D1 -26.079 -30 dBm 40 dBm-MAG -50 dBm M M5 7 Tel ., Kullan M. M. Alle -70 dBm Start 30.0 MHz 30001 pts Stop 26.5 GHz Marker Type | Ref | Trc | X-value Function Function Result Y-value -6.75 dBm -50.55 dBm -53.46 dBm -55.41 dBm 2.46384 GHz 6.896318 GHz M1 M2 1 M3 M4 5.01783 GHz 7.401013 GHz 9.949191 GHz M5 -54.06 dBm 100 Date: 15.MAR.2023 14:43:09

13. Antenna Application

13.1Antenna Requirement

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

13.2Result

The EUT'S antenna is an internal PCB antenna. The antenna's gain is 3.75dBi and meets the requirement.

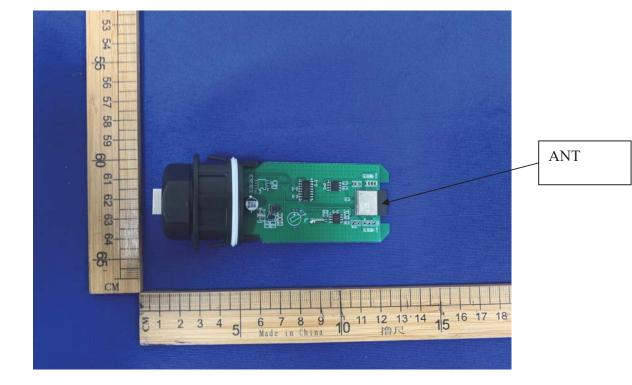
14. Photos of EUT





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