

CTC Laboratories, Inc.

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TEST REPORT			
Report No. ·····:	CTC20231599E03		
FCC ID······:	2A2C7-MC07AR		
IC:	27313-MC07AR		
Applicant:	Clear Touch Solutions, Inc.		
Address:	1100 Thousand Oaks Blvd. Greenville	, SC 29607, United States	
Manufacturer:	Clear Touch Solutions, Inc.		
Address	1100 Thousand Oaks Blvd. Greenville	, SC 29607, United States	
Product Name······:	CR100 Microphone Receiver		
Trade Mark······	Clear Touch		
Model/Type reference······:	CTS-CR100-245G		
Listed Model(s) ······	/		
Standard:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 RSS 247 Issue 2		
Date of receipt of test sample:	Jul. 24, 2023		
Date of testing:	Jul. 25, 2023 ~ Aug. 18, 2023		
Date of issue	Aug. 20, 2023		
Result:	PASS		
Compiled by: (Printed name+signature)	Terry Su	Terry Su	
Supervised by: (Printed name+signature)	Eric Zhang	Tenny Su Zic zhang	
Approved by: (Printed name+signature)	Totti Zhao	Jemas	
Testing Laboratory Name:	CTC Laboratories, Inc.		
Address	1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China		
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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

<u>RSS-247_Issue 2 February 2017</u> — Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

<u>RSS-Gen Issue 5:</u> General Requirements for Compliance of Radio Apparatus.

1.2. Report version

Revised No.	Date of issue	Description
01	Aug. 20, 2023	Original



1.3. Test Description

FCC Part 15 Subpart C (15.247) / RSS 247 Issue 2				
Test Item	Standard Section		Decult	Test
Test Item	FCC	IC	Result	Engineer
Antenna Requirement	15.203	/	Pass	Alicia Liu
Conducted Emission	15.207	RSS-Gen 8.8	Pass	Curry Ye
Radiated Band Edge and Spurious Emissions	15.205&15.209& 15.247(d)	RSS 247 5.5	Pass	Alicia Liu
Conducted Band Edge and Spurious Emissions	15.247(d)	RSS 247 5.5	Pass	Alicia Liu
6dB Bandwidth	15.247(a)(2)	RSS 247 5.2 (a)	Pass	Alicia Liu
Conducted Max Output Power	15.247(b)(3)	RSS 247 5.4 (d)	Pass	Alicia Liu
Power Spectral Density	15.247(e)	RSS 247 5.2 (b)	Pass	Alicia Liu
Transmitter Radiated Spurious	15.209&15.247(d)	RSS 247 5.5& RSS-Gen 8.9	Pass	Alicia Liu

Note: The measurement uncertainty is not included in the test result.



1.4. Test Facility

CTC Laboratories, Inc.

Add: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Laboratory accreditation

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

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained inour files. Registration 951311, Aug 26, 2017.

1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties radio equipment characteristics; Part 2" and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.



Test Items	Measurement Uncertainty	Notes
DTS Bandwidth	±0.0196%	(1)
Maximum Conducted Output Power	±0.686 dB	(1)
Maximum Power Spectral Density Level	±0.743 dB	(1)
Band-edge Compliance	±1.328 dB	(1)
Unwanted Emissions In Non-restricted Freq Bands	9kHz-1GHz: ±0.746dB 1GHz-26GHz: ±1.328dB	(1)
Conducted Emissions 9kHz~30MHz	±3.08 dB	(1)
Radiated Emissions 30~1000MHz	±4.51 dB	(1)
Radiated Emissions 1~18GHz	±5.84 dB	(1)
Radiated Emissions 18~40GHz	±6.12 dB	(1)

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

1.6. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	21°C ~ 27°C
Relative Humidity:	40% ~ 60%
Air Pressure:	101kPa



2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Clear Touch Solutions, Inc.
Address:	1100 Thousand Oaks Blvd. Greenville, SC 29607, United States
Manufacturer:	Clear Touch Solutions, Inc.
Address:	1100 Thousand Oaks Blvd. Greenville, SC 29607, United States

2.2. General Description of EUT

Product Name:	CR100 Microphone Receiver
Trade Mark:	Clear Touch
Model/Type reference:	CTS-CR100-245G
Listed Model(s):	/
Power supply:	5Vdc from USB Port
Hardware version:	B23073
Software version:	V0.1.9
WIFI 802.11b/ g/ n(HT20)/ n(H	1T40)/ ax(HE20)/ ax(HE40)
Modulation:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/ n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Operation frequency:	802.11b/ g/ n(HT20)/ ax(HE20): 2412MHz~2462MHz 802.11n(HT40)/ ax(HE40): 2422MHz~2452MHz
Channel number:	802.11b/ g/ n(HT20)/ ax(HE20): 11channels 802.11n(HT40)/ ax(HE40): 7channels
Channel separation:	5MHz
Antenna type:	PCB Antenna
Antenna gain:	5.08dBi Max



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2.3. Accessory Equipment information

Equipment Information			
Name	Model	S/N	Manufacturer
Notebook	ThinkBook 14G3 ACL	MP246QDR	Lenovo
1	1	1	1
Cable Information			
Name	Shielded Type	Ferrite Core	Length
1	1	1	1
Test Software Information			
Name	Versions	1	1
SecureCRTPortable	7.0.0.326	1	1



2.4. Operation state

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Operation Frequency List:

Channel	Frequency (MHz)
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

Note: CH 01~CH 11 for 802.11b/g/n(HT20)/ax(HE20), CH 03~CH 09 for 802.11n(HT40)/ax(HE40).

Data Rated

Preliminary tests were performed in different data rate, and found which the below bit rate is worst case mode, so only show data which it is a worst case mode.

Mode	Data rate (worst mode)
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)/ (HT40)	HT-MCS0
802.11ax(HE20)/ (HE40)	HE-MCS0

RU Configuration

Operating Mode	Resource Unit	242 Tone (20M)
802.11ax(HE20)	Specific Resource Unit	61
Operating Mode	Resource Unit	484 Tone (40M)
802.11ax(HE40)	Specific Resource Unit	65



Test mode

For RF test items:

The engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions:

The EUT was set to connect with the WLAN AP under large package sizes transmission.

For Radiated spurious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.



2.5. Measurement Instruments List

Tonsce	end JS0806-2 Test system				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	MXA Signal Analyzer	Keysight	N9020A	MY46471737	Dec. 16, 2023
2	Spectrum Analyzer	R&S	FSU26	100105	Dec. 16, 2023
3	Spectrum Analyzer	R&S	FSV40-N	101331	Mar. 14, 2024
4	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 16, 2023
5	PSG Analog Signal Generator	Agilent	E8257D	MY46521908	Dec. 16, 2023
6	Power Sensor	Keysight	U2021XA	MY55130004	Mar. 14, 2024
7	Power Sensor	Keysight	U2021XA	MY55130006	Mar. 14, 2024
8	Wideband Radio Communication Tester	R&S	CMW500	102414	Dec. 16, 2023
9	High and low temperature box	ESPEC	MT3035	/	Mar. 24, 2024
10	JS1120 RF Test system	TONSCEND	v2.6	/	1

Radiate	Radiated emission(3m chamber 2)									
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until					
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-1013	Dec. 07, 2024					
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Dec. 07, 2024					
3	Loop Antenna	LAPLAC	RF300	9138	Dec. 16, 2023					
4	Spectrum Analyzer	R&S	FSU26	100105	Dec. 16, 2023					
5	Spectrum Analyzer	R&S	FSV40-N	101331	Mar. 14, 2024					
6	Pre-Amplifier	SONOMA	310	186194	Dec. 16, 2023					
7	Low Noise Pre-Amplifier	EMCI	EMC051835	980075	Dec. 16, 2023					
8	Test Receiver	R&S	ESCI7	100967	Dec. 16, 2023					
9	3m chamber 2	Frankonia	EE025	/	Oct. 23, 2024					

Radiate	Radiated emission(3m chamber 3)									
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until					
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9163	01026	Dec. 18, 2024					
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Dec. 01, 2024					
3	Test Receiver Keysight N9038A MY56400			MY56400071	Dec. 16, 2023					
4	Broadband Premplifier	SCHWARZBECK	BBV9743B	259	Dec. 16, 2023					
5	Mirowave Broadband Amplifier	SCHWARZBECK	BBV9718C	111	Dec. 16, 2023					
6	Pre-Amplifier	R&S	SCU-26	10033	Dec. 16, 2023					
7	Pre-Amplifier	R&S	SCU-40	10030	Dec. 16, 2023					
8	Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	BBHA 9170-497	Dec. 16, 2023					
9	3m chamber 3	YIHENG	EE106	/	Sep. 09, 2023					



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Condu	Conducted Emission										
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until						
1	LISN	R&S	ENV216	101112	Dec. 16, 2023						
2	LISN	R&S	ENV216	101113	Dec. 16, 2023						
3	EMI Test Receiver	R&S	ESCS30	100353	Dec. 16, 2023						

Note: 1. The Cal. Interval was one year.

2. The Cal. Interval was three year of the chamber

3. The cable loss has calculated in test result which connection between each test instruments.



3.TEST ITEM AND RESULTS

3.1. Conducted Emission

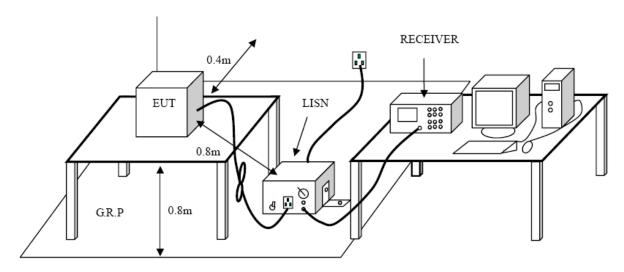
<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.207/ RSS - Gen 8.8:

Eroquonov rongo (MHz)	Limit (d	BuV)
Frequency range (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

Test Configuration



Test Procedure

1. The EUT was setup according to ANSI C63.10:2013 requirements.

2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.

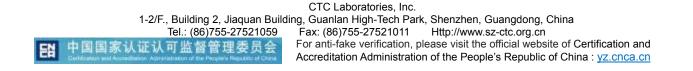
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)

4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

7. During the above scans, the emissions were maximized by cable manipulation.

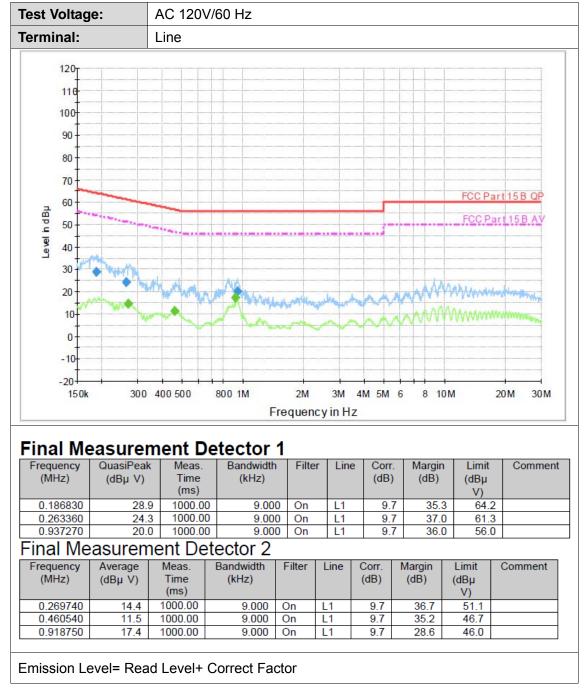




Test Mode:

Please refer to the clause 2.4.

Test Results





EN

est Voltag	je:	AC 120	V/60 Hz						
erminal:		Neutral							
120T									
110									
100									
90 -									
80									
70 -									
-								FCC Pa	rt15B QP
									rt15B AV
rag u so		********							
40 -	nhu -								
30	· WARNING		~				- A	Alterin	to it coshetti
20		which have	n the friend	marring	L. Martin	nn	MANY	Manna	
10	a Man	m	1 m	mith	n	nit	M	th Man	Marrian 19
0 [‡]									
-10									
-20									
150k	30(400 500	800 1M	2M	3M		6 8 10	M	20M 30M
			ł	requer	icy in F	1Z			
inal Me	asure	ment D	etector	1					
Frequency (MHz)	QuasiPea (dBµ V)	k Meas.	Bandwidth (kHz)		r Lin	e Corr. (dB)	Margin (dB)	Limit (dBµ V)	Commen
0.183870	28	.5 1000.0			N	9.7	35.8		
0.288680	23 23				N	9.7			
			etector 2			0.1	02.0	00.0	1
Frequency	Average	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit	Comment
(MHz)	(dBµ V)	Time (ms)	(kHz)			(dB)	(dB)	(dBµ V)	
0.918750	21.1	1000.00	9.000	On	N	9.7	24.9	46.0	
10.323500	17.4	1000.00	9.000 9.000	On On	N N	9.8 9.9	32.6 32.6	50.0 50.0	
28.685180	17.4	1000.00	0.000			0.0	02.0	00.0	



3.2. Radiated Emission

<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.209/ RSS – Gen 8.9:

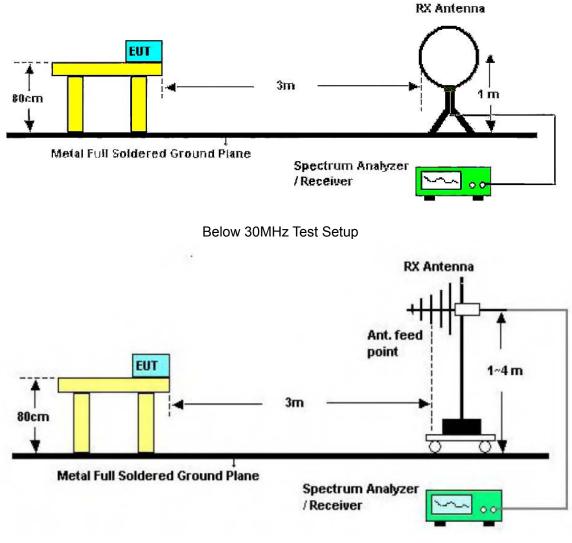
Frequency	Limit (dBuV/m @3m)	Value
30 MHz ~ 88 MHz	40.00	Quasi-peak
88 MHz ~ 216 MHz	43.50	Quasi-peak
216 MHz ~ 960 MHz	46.00	Quasi-peak
960 MHz ~ 1 GHz	54.00	Quasi-peak
Above 1 GHz	54.00	Average
Above i Grz	74.00	Peak

Note:

(1) The tighter limit applies at the band edges.

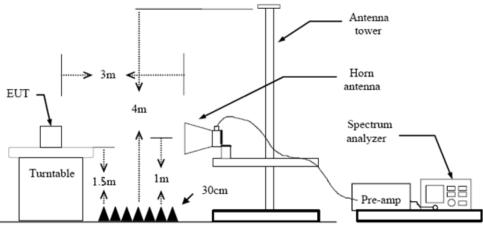
(2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

Test Configuration



Below 1000MHz Test Setup





Above 1GHz Test Setup

Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2013

2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.

3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.

4. For each suspected emission, 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 to comply with the guidelines.

5. Set to the maximum power setting and enable the EUT transmit continuously.

6. Use the following spectrum analyzer settings

(1) Span shall wide enough to fully capture the emission being measured

(2) Below 30 MHz:

9kHz – 150kHz, RBW=200Hz, VBW≥RBW, Sweep=auto, Detector function=peak, Trace=max hold; 150kHz – 30MHz, RBW=9kHz, VBW≥RBW, Sweep=auto, Detector function=peak, Trace=max hold; 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 guasi-peak detector and reported.

(3) 30 MHz - 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

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.

(4) From 1 GHz to 10^{th} harmonic:

RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW \geq 1/T Peak detector for Average value.

Note 1: For the 1/T& Duty Cycle please refer to clause 3.8 Duty Cycle.

Test Mode

Please refer to the clause 2.4.

Test Result

9 KHz~30 MHz

From 9 KHz to 30 MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

CTC Laboratories, Inc.



Ant.	. Pol.		Hori	zonta	l									
Test	t Moo	le:	802.	802.11b Mode 2412MHz										
Rem	nark:		Only	Only worse case is reported										
90.0	dBuV.	/m												
30 -														
0 -														
;o -									FCC Part	15 C				
0									Margin -6	dB				
10				<u> </u>										
80 -								1 UIAU - U	6 	na adulta				
:0 -						ant the many popular	ahuran Mahanana 1	ally and a second a		r, r.Muni dis				
0	harring war	the work where the	number when	mbrinstruck	har mathematic									
• -														
10 30.1	000		60.00			(MHz)	30	0.00		1000.0				
<u> </u>								1						
N	l o.	Freque (MH			ading Bu∨)	Factor (dB/m)	Level (dBuV/m	Limit) (dBuV/m)	Margin (dB)	Detecto				
	1	135.0	318	40	0.46	-18.09	22.37	43.50	-21.13	QP				
2	2 *	227.6	906	56	6.00	-19.41	36.59	46.00	-9.41	QP				
	3	301.4	223	49	9.10	-17.14	31.96	46.00	-14.04	QP				
<u> </u>	4	394.8	545	45	5.53	-14.95	30.58	46.00	-15.42	QP				
	5	517.24	479	43	3.11	-12.32	30.79	46.00	-15.21	QP				
1	6	709.1	321	39	9.70	-9.31	30.39	46.00	-15.61	QP				

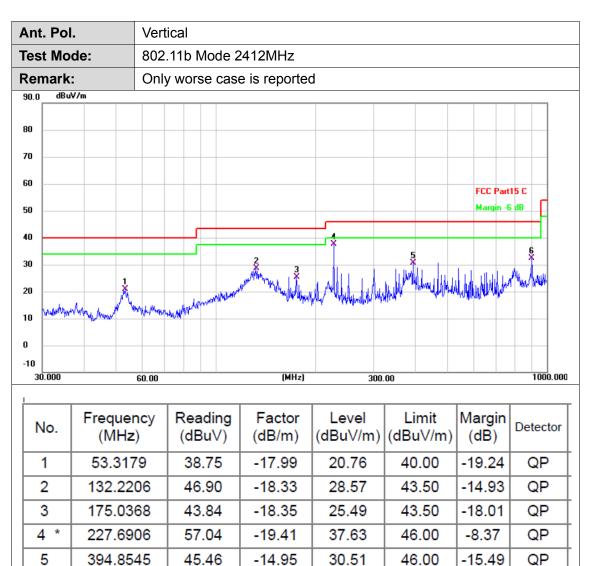
Remarks:

-13.66

QP

46.00





Remarks:

6

900.1474

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value

-5.88

32.34

38.22



	•	Horiz	zonta	al									
est Mo	de:	TX 8	TX 802.11b Mode 2412MHz										
emark	:	No report for the emission which more than 10 dB below the prescribed limit.											
10.0 dBu	iV/m												1
00													
0													
0									FCC P	art15 C	- Above 1	G PK	
0													
0									FCC P	art15 C	- Above 1	G AV	
0	ş												
0	×												
0.0													
	3500.00 6	000.00	8500	J.OO 1	1000.00	(MHz)	160	00.00 1	8500.00	21000	.00 23500	0.00 260	00.
1000.000	3500.00 6	000.00	8500).00 1 [°]	1000.00	(MHz)	160	00.00 1	8500.00	21000	.00 23500).00 260	00.
No.	Frequer (MHz			ading BuV)		actor 3/m)	Le	vel iV/m)	Lim	it	Margin (dB)	Detec	tor
No.	Frequer (MHz 4823.0	:)	(dE	ading 3uV) 5.48	(dE	actor 3/m)	Le (dBu	vel IV/m)	Lim	it ⁄/m)	Margin (dB) -26.32	Delec	

Remarks:



Ant. Po	I.	Verti	cal									
Test Mo	ode:	TX 8	X 802.11b Mode 2412MHz									
Remark	(:		No report for the emission which more than 10 dB below the prescribed limit.									
110.0 dB	uV/m											
100												
90												
80						FCC Part15	C - Above 1	G PK				
70												
60						FCC Part15	C - Above 1	G AV				
50												
40	X											
30	ş											
20												
10.0 1000.00	0 3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00	8500.00 21000	0.00 23500	.00 26000.0				
					1							
No.	Frequer (MHz		Reading (dBu∀)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector				
1	4823.2	64	40.30	2.20	42.50	74.00	-31.50	peak				
2 *	4823.9	57	25.38	2.20	27.58	54.00	-26.42	AVG				

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Remarks:



Ant	. Pol		Horiz	Horizontal										
Tes	t Mod	de:	TX 8	TX 802.11b Mode 2437MHz										
Rer	nark:			eport for the cribed limit.	emission v	vhich more t	han 10 dB t	pelow the	;					
110.0) dBu	//m												
100														
90														
80							FCC Part15	C - Above 1	G PK					
70														
60							FCC Part15	C - Above 1	G AV					
50		ş												
40		0												
30		×												
20 10.0														
10	00.000	3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00 1	8500.00 2100	0.00 23500	.00 26000.0					
						1								
1	۷o.	o. Frequency (MHz)		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector					
	1 *	4873.7	25	25.07	2.30	27.37	54.00	-26.63	AVG					
	2	4874.8	95	40.64	2.30	42.94	74.00	-31.06	peak					
Rer	narks	:												

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Ant	. Pol		Vert	ical									
Tes	t Mo	de:	ТХ 8	302.1	11b Mod	de 2437	MH:	z					
Ren	nark	:			t for the	e emiss	ion v	vhich	more t	than 10 dE	below the	9	
110.0) dBu	V/m											
100													
90													
80										FCC Part1	5 C - Above 1	G PK	
70													
60										ECC Part1	5 C - Above 1	GAV	
50											JC ADOVE I		
40		Š											
30		1 X											
20													
10.0 10	00.000	3500.00 6	6000.00	850	0.00 11	000.00 ((MHz)	160	00.00	18500.00 21)00.00 23500	.00 26000	D.0
N	o.	Frequency (MHz)			ading BuV)	Fact (dB/r			vel IV/m)	Limit (dBuV/m) Margin (dB)	Detector	r
1	*	4874.4	97	24	4.89	2.3	0	27	.19	54.00	-26.81	AVG	
2	2	4874.6	74.654		9.79	2.3	0	42	.09	74.00	-31.91	peak	
Ren	narks	<u>.</u>											

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Remarks:



Ant.	Pol	-	Horiz	zonta	ıl									
Test	t Mo	de:	TX 8	02.1 ⁻	1b Moo	le 2462I	ИНz	2						
Rem	hark				for the d limit.	e emissio	on w	/hich	more t	han 10	dB t	pelow th	е	
110.0	dBu	V/m	-											1
100											_			
90											_			
80										FCC P	art15 (C-Above 1		
70														•
60														
50										FCC P	art15 (C-Above 1	IG AV	
40		Š												
30		1												
20														
10.0		3500.00 6	000.00	0500		000.00 ()		100	00.00 1	0500.00	01000	00 0050		
10	00.000	3500.00 6	000.00	8500	.00 11	000.00 (N	(Hz)	160	00.00 1	8500.00	21000	0.00 2350	0.00 26	000.0
ı						1						1		
N	о.	Frequer (MHz			ading BuV)	Facto (dB/n			evel iV/m)	Lim (dBu∀		Margir (dB)	Deteo	ctor
1	*	4924.1	43	24	.91	2.41		27	.32	54.0	0	-26.68	AV	G
2	2	4924.4	95	40).21	2.41		42	.62	74.0	0	-31.38	pea	ak
Rem								*					·	

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Remarks:



Ant. Po	I.	Verti	cal											
Test Mo	ode:	TX 8	802.11b Mode 2462MHz report for the emission which more than 10 dB below the											
Remark	:		eport for the cribed limit.	emission v	which more f	than 10 dB t	pelow the	;						
110.0 dBu	JV/m													
100														
90														
80						FCC Part15	C - Above 1	G PK						
70														
60						FCC Part15	C - Above 1	GAV						
50	ŝ													
30														
20	×													
10.0														
1000.000	0 3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00 1	8500.00 21000	0.00 23500	.00 26000.0						
No.	Frequer		Reading	Factor		Limit	Margin	Detector						
1 *	(MHz 4923.2	, 	(dBuV) 24.59	(dB/m) 2.41	(dBuV/m) 27.00	(dBuV/m) 54.00	(dB) -27.00	AVG						
2	4923.2		40.24	2.41	42.65	74.00	-27.00							
2	4924.4	25	40.24	2.41	42.00	74.00	-31.35	peak						
Pomark	0.													

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Remarks:



Ant. Po	I.	Horiz	ontal											
Test Mo	ode:	TX 802.11g Mode 2412MHz No report for the emission which more than 10 dB below the												
Remark	K:	No re preso	eport for the cribed limit.	emission v	vhich more t	han 10 dB t	pelow the	;						
110.0 dB	ıV/m													
100														
90														
80						FCC Part15 (C-Above 1	G PK						
70														
60						FCC Part15 (C- Above 1	GAV						
50														
40	×													
30	ş													
20														
10.0	0 3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00 1	8500.00 21000	.00 23500	.00 26000.0						
No.	Freque (MHz	-	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector						
1	4824.3	26	40.35	2.20	42.55	74.00	-31.45	peak						
2 *	4824.9	05	25.44	2.20	27.64	54.00	-26.36	AVG						
Domort	0:													
Remark	S: • (-ID (•)	A			- F		C							

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Ant	. Pol	•	Verti	cal											
Test	t Mo	de:	TX 8	802.11g Mode 2412MHz											
	nark		No res	report for the emission which more than 10 dB below the escribed limit.											
110.0) dBu	V/m													
100															
90															
80															
										FCC Pa	ırt15	C - Above 1	G PK		
70															
60										FCC Pa	ırt15 (C - Above 1	GAV		
50		1×													
40		×									-				
30		ş									_				
20											_				
10.0	00 000	3500.00 6	000.00	8500	00 11	000.00 (M	Hz)	160	00.00 1	8500.00	21000	0.00 23500	.00 26000.0		
						<u> </u>	<u></u> ,								
N	lo.	Frequer (MHz			iding suV)	Facto (dB/m			vel V/m)	Limi (dBuV/		Margin (dB)	Detector		
	1	4823.7	77	40	.87	2.20		43	.07	74.0	0	-30.93	peak		
2	*	4824.6	99	25	.56	2.20		27	.76	54.0	0	-26.24	AVG		
Der	narke														

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Remarks:



Ant.	Pol	•	Hori	zonta	al								
Test	t Mo	de:	TX 8	302.1	1g Moo	de 2437N	1H:	<u>z</u>					
Rem	hark	:			t for the d limit.		n v	vhich r	nore f	han 10 dB l	below the	;	
110.0) dBu	iV/m					_						
100							_						
90							-						
80			_				-			FCC Part15	C - Above 1	G PK	
70							-						
60										FCC Part15	C - Above 1	GAV	
50		1											
40		×					-						
30		ş					-						
20							-						
10.0	00 000) 3500.00 6	000.00	850	0.00 1	1000.00 (M	IHz)	160	00.00	18500.00 2100	0.00 23500).00 26000	пп
N	o.	Frequer (MHz			ading BuV)	Facto (dB/m		Lev (dBu		Limit (dBuV/m)	Margin (dB)	Detector	
1		4873.4	99	40).10	2.30		42.	40	74.00	-31.60	peak	
2	*	4873.6	89	25	5.01	2.30		27.	31	54.00	-26.69	AVG	
Por													

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Remarks:



Ant	. Pol		Verti	cal											
Tes	t Mo	de:	TX 8	02.1	11g Moc	le 24371	ИНz	Z							
Rer	nark	:		lo report for the emission which more than 10 dB below the rescribed limit.											
110.) dBu'	V/m													
100															
90											_				
80										FCC Pa	urt15 (C - Above 1	G PK		
70															
60										FCC Pa	ırt15 (C - Above 1	G AV		
50		ž													
40															
30		×													
20 10.0															
10	00.000	3500.00 6	000.00	850	0.00 11	000.00 (N	Hz)	160	00.00 1	8500.00	2100	0.00 23500	.00 26000.	.0	
<u>.</u>														_	
N	lo.	Frequer (MHz			ading BuV)	Facto (dB/m			vel iV/m)	Limi (dBuV/		Margin (dB)	Detector		
-	1 *	4873.4	11	2	4.62	2.30		26	.92	54.0	0	-27.08	AVG		
	2	4874.8	75	4	0.03	2.30		42	.33	74.0	0	-31.67	peak		
	-														
Rer	narks	51													

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Remarks:



Ant. Po)I.	Horizo	ontal											
Test Mo	ode:	TX 80	TX 802.11g Mode 2462MHz No report for the emission which more than 10 dB below the											
Remark	K :		oort for the ibed limit.	emission v	which more t	han 10 dB t	pelow the	;						
110. <u>0</u> dE	3uV/m													
100														
90														
80						FCC Part15	C - Above 1	G PK						
70														
60 50						FCC Part15	C - Above 1	GAV						
40	Š													
30	1													
20														
	00 3500.00 @	6000.00	8500.00 11	000.00 (MHz)	16000.00	18500.00 21000	0.00 23500	.00 26000.0						
1														
No.	Frequer (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector						
1 *	4924.1	35	24.57	2.41	26.98	54.00	-27.02	AVG						
2	4924.8	91	39.44	2.41	41.85	74.00	-32.15	peak						
Remark	·S.													

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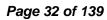
Remarks:



Ant	. Pol.		Verti	oal							
-	t Mod					0.046014	1-				
	nark:	le:			-	e 2462Ml e emission		more t	han 10 dB b	pelow the	
					ed limit.						
110.0) dBu¥	//m									
100											
90											
80											
ŀ									FCC Part15	C - Above 1	G PK
70											
60									FCC Part15	C - Above 1	GAV
50											
40		Å									
30		1									
20		×									
10.0											
	00.000	3500.00 6	000.00	850	0.00 11	000.00 (MH	z) 16	000.00 1	8500.00 21000	0.00 23500	.00 26000.0
1											
N	lo.	Frequer (MHz			ading BuV)	Factor (dB/m)		evel uV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1 *	4923.9	92	2	4.83	2.41	2	7.24	54.00	-26.76	AVG
	2	4924.9	03	3	9.96	2.41	4	2.37	74.00	-31.63	peak

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Remarks:





nt. Po	l.	Horiz	contal								
est Mo	ode:	TX 8	02.11n(HT2	20) Mode 24	412MHz						
Remark: No report for the emission which more than 10 dB below the prescribed limit. 110.0 dBuV/m											
10.0 dB	uV/m										
00											
)											
)						FCC Part15	C - Above 10	G PK			
, ⊨						FCC Part15	C - Above 10	<u>AV</u>			
'	1										
•	Ě										
ı											
).0	0 3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00 1	8500.00 21000).00 23500.	.00 26000.			
1000.00				000.00 (MHz)							
No.	Frequer (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			
1	4823.8	51	40.73	2.20	42.93	74.00	-31.07	peak			
2 *	4824.3	76	25.68	2.20	27.88	54.00	-26.12	AVG			
		I					I	<u>.</u>			

Remarks:



D	Page 33 of 139	Report No.: CTC202315
Ant. Pol.	Vertical	
Test Mode:	TX 802.11n(HT20) Mode 2412MHz	
Remark:	No report for the emission which more prescribed limit.	re than 10 dB below the
110.0 dBuV/m		
100		
90		
80		FCC Part15 C - Above 1G PK
70		
60		FCC Part15 C - Above 1G AV
50		
40		
30 1 ×		
20		
10.0 1000.000 3500.00 6	000.00 8500.00 11000.00 (MHz) 16000.00	0 18500.00 21000.00 23500.00 26000.0

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4824.175	25.42	2.20	27.62	54.00	-26.38	AVG
2	4824.562	40.13	2.20	42.33	74.00	-31.67	peak

Remarks:

EN



Ant	. Pol		Horiz	zont	al									
Tes	t Mo	de:	TX 8	802.1	l1n(HT2	20) Mode	e 24	37MF	Ηz					
Rer	nark			No report for the emission which more than 10 dB below the prescribed limit.										
110.) dBu	V/m												
100														
90														
80										FCC Part1	5 C - Above 1	G PK		
70														
60							-			ECC Part1	5 C - Above 1	C AV		
50											JC ADOVET			
40		X					_							
30		ş												
20							_							
10.0 10		3500.00 6	000.00	850	0.00 11	000.00 (M	IHz)	160	00.00 1	8500.00 210)00.00 23500	.00 26000.0		
								1						
N	lo.	Frequer (MHz			ading BuV)	Facto (dB/m			vel iV/m)	Limit (dBuV/m	Margin (dB)	Detector		
	1	4873.2	67	4	0.29	2.30		42	.59	74.00	-31.41	peak		
2	2 *	4874.0	47	2	5.48	2.30		27	.78	54.00	-26.22	AVG		

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Remarks:



Ar	nt. Pol		Vertical										
Test Mode:			TX 802.11n(HT20) Mode 2437MHz										
Remark:			No report for the emission which more than 10 dB below the prescribed limit.										
110.0 dBuV/m													
100													
90													
80										FCC Part	15 C - Above	1G PK	
70													
60													
50										FCC Part	15 C - Above	1G AV	
		* *											
40													
30		ş											
20													
10.0 1		3500.00 60)00.00	850(100 11	000.00 (MH ₂)	160	00 00 1	8500.00 21	000 00 2350	0.00 2600	n n
1000.000 3500.00 6000.00 8500.00 11000.00 (MHz) 16000.00 18500.00 21000.00 23500.00 26000.0													
	No.	Frequer	ncy	Reading		Factor		Level		Limit	Margin	Detecto	
	INO.	NO. (MHz				(dB/m)		(dBuV/m)		(dBuV/n	n) (dB)	Delector	
	1	4873.5	09	39.85		2.30		42.15		74.00	-31.85	peak	:
	2 *	2 * 4874.3		24.67		2.30		26.97		54.00	-27.03	AVG	
								1		1			

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Remarks:



Ant	. Pol	•	Horizontal										
Tes	t Mo	de:	TX 802.11n(HT20) Mode 2462MHz										
Rer	nark		No report for the emission which more than 10 dB below the prescribed limit.										
110.) dBu	V/m											
100													
90													
80										FCC Par	t15 (C-Above 10	G PK
70											-		
60										FCC Par	t15 (C-Above 10	3 AV
50		1									-		
40		X									-		
30		ş									+		
20											+		
10.0 10	00.000	3500.00 6	000.00	8500	.00 11	000.00 (MHz)	160	00.00 1	8500.00 2	1000	.00 23500	.00 26000.0
No. Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) Limit (dBuV/m) Margin (dB)													
-	1	4923.8	· · · ·		2.41		42.02		74.00		-31.98	peak	
2	2 *	4924.2	24.214		24.48		2.41		.89	54.00)	-27.11	AVG
													<u>'</u>

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Remarks:



Ant. Pol.		Vertio	cal									
Test Mod	le:	TX 8	02.11n(HT	20) Mode 24	162MHz							
Remark:			eport for th cribed limit	e emission v	vhich more t	han 10 dB b	elow the	;				
110.0 dBuV	//m	-										
100												
90												
80						FCC Part15 (C-Above 10	G PK				
70												
60						ECC Part15 (- Above 1(
50	1		FCC Part15 C - Above 1G AV									
40	×											
30	ş											
20												
10.0	2500.00 6	000.00	8500.00 1	1000.00 (MHz)	16000.00 1	8500.00 21000	.00 23500	.00 26000.0				
¦												
No.	Frequer (MHz	-	Reading (dBu∀)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector				
1	4923.7	72	40.48	2.41	42.89	74.00	-31.11	peak				
2 *	4924.4	81	24.99	2.41	27.40	54.00	-26.60	AVG				
Remarks:		Aptor		dB/m)+Cabl			fior Foot					

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nt. Po	Pol. Horizontal Mode: TX 802.11n(HT40) Mode 2422MHz										
est Mo	ode:										
Remark	K:		eport for the cribed limit.		which more t	than 10 dB t	pelow the	;			
10.0 dB	uV/m										
00											
0						FCC Part15	C - About 1	CPK			
0						Tee Faitis	C-ADOVE I				
0						FCC Part15	C - Above 1	GAV			
0	2										
0	Š										
0	×										
:0											
0.0	10 3500.00 6	000.00	8500.00 1	1000.00 (MHz)	16000.00	18500.00 2100	0.00 23500	0.00 26000			
No.	Frequer (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			
	4843.6	78	26.04	2.24	28.28	54.00	-25.72	AVG			
1 *	1	79	40.90	2.24	43.14	74.00	-30.86	peak			



Ant	. Pol		Verti	cal									
Test	t Mo	de:	TX 8	02.1	1n(HT4	10) Mo	de 24	I22MI	Ηz				
Ren	nark	:			for the d limit.	e emiss	sion v	vhich	more t	han 10 d	B be	elow the	
110.0) dBu	V/m											
100													
90													
80										FCC Part	15.0	- Above 10	PK .
70										1001 4	150	71001010	
60													
50										FCC Part	15 C ·	- Above 10	i AV
		1×											
40													
30		Š											
20											-		
10.0 10	00.000	3500.00 6	000.00	8500	.00 11	000.00	(MHz)	160	00.00 1	8500.00 21	000.0)0 23500.	00 26000.0
	lo.	Frequer	псу	Rea	ading	Fac	tor	Le	evel	Limit	1	Margin	Detector
		(MHz			3uV)	(dB/	· ·	•		(dBuV/r		(dB)	
	1	4843.4	94	41	.16	2.2		43	6.40	74.00		-30.60	peak
2	*	4843.6	94	25	.77	2.2	24	28	3.01	54.00	-	-25.99	AVG

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Remarks:



Ant.	Pol.		Hori	rizontal 802.11n(HT40) Mode 2437MHz												
Test	Мос	de:	ТХ 8	802.1	1n(HT4	0) Mode	24	37M⊦	lz							
Rem	ark:				t for the d limit.	emissio	n v	vhich r	nore t	han 10 dB b	pelow the	•				
110.0) dBu	ıV/m	_													
100																
90																
80										FCC Part15	C - Above 1	G PK				
70																
60					FCC Part15 C - Above 1G AV											
50		1 X														
40		^														
30		ş														
20																
10.0 10	00.000	3500.00	6000.00	850	0.00 11	1000.00 (M	Hz)	160	00.00	18500.00 2100	0.00 23500	.00 2600	0.0			
1																
N	0.	Freque (MHz			ading BuV)	Facto (dB/m			vel V/m)	Limit (dBuV/m)	Margin (dB)	Detecto) N			
1		4873.6	65	42	2.06	2.30		44	.36	74.00	-29.64	peak	:			
2	*	4873.9	74	24	4.92	2.30		27	.22	54.00	-26.78	AVG				
Rem	arks	:						_			_					

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Ant	. Pol.		Verti	cal										
Tes	t Moc	de:	TX 8	02.1	1n(HT4	0) Mode	24	37MF	łz					
	nark:				t for the d limit.	emissio	n w	/hich	more t	han 10 (dB k	pelow the	;	
110.() dBu\	//m												
100														
90														
80										FCC Pr	urt15	C - Above 1	G PK	
70														
60										ECC Pr	et15	C - Above 1	GAV	
50														
40		×												
30		ş												
20														
10.0 10	00.000	3500.00 6	000.00	8500	0.00 11	000.00 (M	Hz)	160	00.00 1	8500.00	2100	0.00 23500	0.00 260	00.0
1								I					1	
1	No.	Freque (MHz			ading BuV)	Facto (dB/m			vel IV/m)	Limi (dBuV/		Margin (dB)	Detect	or
	1	4874.0	92	39	9.89	2.30		42	.19	74.0	0	-31.81	peak	(
	2 *	4874.5	76	25	5.06	2.30		27	.36	54.0	0	-26.64	AVG	;

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Remarks:



Ant	. Pol	•	Horiz	zontal											
Tes	t Mo	de:	TX 8	02.11n(ł	HT4	0) Mode	24	152M	Ηz						
Ren	nark			eport for cribed lir		e emissio	n v	vhich	more t	han 10 dB	below the	;			
110.0) dBu	V/m													
100															
90															
80										ECC DestIE	C - Above 1				
70										FUC Partis	C - Above T				
60				FCC Part15 C - Above 1G AV											
50				FCC Part15 C - Above 1G AV											
40		*													
30		2													
20		Š													
10.0															
10	000.000	3500.00 6	000.00	8500.00	11	000.00 (M	Hz)	160	000.00 1	8500.00 2100	0.00 23500	.00 26000.0			
<u>.</u>								1							
N	lo.	Frequer (MHz	-	Readin (dBu∀	-	Facto (dB/m			evel iV/m)	Limit (dBuV/m)	Margin (dB)	Detector			
	1	4903.4	08	40.89)	2.36		43	.25	74.00	-30.75	peak			
2	2 *	4904.7	07	24.85	;	2.36		27	.21	54.00	-26.79	AVG			
Ren	narks	S:													

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Ant. Po	I.	Verti	cal											
Test Mo	de:	TX 8	02.11n(HT4	0) Mode 24	52MHz									
Remark	:		eport for the cribed limit.	emission w	hich more t	han 10 dB b	elow the							
110.0 dBu	iV/m													
100														
90														
80						FCC Part15 C	- Above 10	à PK						
70														
60			FCC Part15 C - Above 1G AV											
50	1×	_												
40														
30	Š													
20 10.0														
1000.000	3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00 1	8500.00 21000	.00 23500.	00 26000.0						
1	1													
No.	Freque (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector						
1	4903.3	59	40.78	2.36	43.14	74.00	-30.86	peak						
2 *	4904.2	32	24.76	2.36	27.12	54.00	-26.88	AVG						
Remarks	s.													

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Remarks:



Ant. Po	ol.	Hori	zont	al							
Test Mo	ode:	ТХ 8	302.1	11ax(HE	20) Mod	e 2	24121	/Hz			
Remar				t for the ed limit.	e emissio	n v	vhich	more t	han 10 dB l	pelow the	;
110. <u>0</u> dE	BuV/m										
00											
10 -											
0									FCC Part15 (C-Above 10	i PK
0											
60											
									FCC Part15 (C-Above 10	AV
50	1										
40	^										
30	Ę										
20											
10.0											
							-				
No.	Frequer (MHz			ading BuV)	Factor (dB/m)			vel iV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4824.2	35	4(0.63	2.20		42	.83	74.00	-31.17	peak
2 *	4824.8	04	2	5.49	2.20		27	.69	54.00	-26.31	AVG
Remark	ks: r (dB/m) = 1	A								С	

2.Margin value = Level -Limit value

EN



Ant.	Pol		Vert	ical											
Test	: Mo	de:	TX 8	302.	11ax(HE	20) Mo	de 2	24121	ЛНz						
Ren	nark	:			rt for the ed limit.	e emissi	on v	vhich	more t	han 10 dE	below the	9			
110.0	dBu	V/m													
100															
90															
80										FCC Part1	5 C - Above 1	G PK			
70							_								
60				FCC Part15 C - Above 1G AV											
50		2		FCC Part15 C - Above 1G AV											
40		ş													
30															
20															
10.0	<u></u>	3500.00 6	000.00	850	0.00 11	000.00 ()	/Hz)	16	000.00 1	8500.00 210	00.00 23500	.00 26000.0			
		0000.00 0	000.00					10		0000.00 210	00.00 20000	Loboold			
N	0.	Frequer (MHz			eading BuV)	Fact (dB/n			evel uV/m)	Limit (dBuV/m	Margin (dB)	Detector			
1	*	4824.5	75	2	5.84	2.20)	28	3.04	54.00	-25.96	AVG			
2	2	4824.8	30	4	1.56	2.20)	43	3.76	74.00	-30.24	peak			
Rem	narks	6:													

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Ant. Pol.	Hori	zontal											
Test Mode:	TX	302.11ax(HE	20) Mode 2	437MHz									
Remark:		report for the scribed limit.	emission v	hich more t	han 10 dB b	elow the	•						
110.0 dBuV/m													
100													
90													
80					FCC Part15 0	C-Above 10	à PK						
70													
60					FCC Part15 (C-Above 10	AV 6						
50	1	FCC Part15 C - Above 1G AV											
40	×												
30	ş												
20													
10.0 1000.000 3500.00	6000.00	8500.00 11	000.00 (MHz)	16000.00 1	8500.00 21000	.00 23500.	00 26000.0						
	uency Hz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector						
1 4873	3.603	40.70	2.30	43.00	74.00	-31.00	peak						
2 * 4874	4.717	25.02	2.30	27.32	54.00	-26.68	AVG						
Remarks: 1.Factor (dB/m)													

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EN

D) ı۴ V 2.Margin value = Level -Limit value



Ant	. Pol		Verti	cal									
Tes	t Mo	de:			-	20) Moo							
Rer	nark	:		eport fo cribed		e emissio	on v	vhich	more t	han 10	dB I	pelow the	9
110.) dBu	V/m											
100													
90							-						
80										FCC P	art15	C - Above 1	G PK
70													
60										FCC P	art15	C - Above 1	G AV
50		ş											
40													
30 20		×											
20 10.0													
10	000.000	3500.00 6	000.00	8500.0	0 11	000.00 (N	Hz)	160	00.00 1	8500.00	2100	0.00 23500).00 26000.0
	lo.	Frequer	псу	Read	ling	Facto	or	Le	vel	Lim	it	Margin	Detector
		(MHz		(dBu	· ·	(dB/m	· .		· · ·	(dBu∨		(dB)	
1	1 *	4873.8	05	24.9	91	2.30		27	.21	54.0	0	-26.79	AVG
	2	4874.7	75	40.2	26	2.30		42	.56	74.0	0	-31.44	peak

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Remarks:



Ant. F	Pol.	Horiz	orizontal (802.11ax(HE20) Mode 2462MHz											
Test I	Mode:	TX 8	02.11ax(HE	20) Mode 2	2462MHz									
Rema	ark:		eport for the cribed limit.	emission v	vhich more t	han 10 dB t	pelow the	;						
110.0	dBuV/m													
100														
90														
80						FCC Part15 (- Ahove 10) PK						
70														
60														
			FCC Part15 C - Above 1G AV											
50	ş													
40	^													
30	1×													
20														
10.0	000 2500 00 0	000.00	0500.00 110		1000.00.1	0500.00.01000	00 00500	0.0000						
1000.	000 3500.00 6	000.00	8500.00 110	000.00 (MHz)	16000.00 1	8500.00 21000	.00 23500.	00 26000.0						
1														
No.	Freque	ncy	Reading	Factor	Level	Limit	Margin	Detector						
INO.	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Delector						
1	* 4924.5	21	24.51	2.41	26.92	54.00	-27.08	AVG						
2	4924.6	03	40.25	2.41	42.66	74.00	-31.34	peak						
			I					L						
Rema	irks:													

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kemarks:



Ant	. Pol	•	Vertic	al					
Test	t Moo	de:		•	20) Mode 2				
Ren	nark:		No re presc	port for the ribed limit.	emission v	which more	than 10 dB b	pelow the	;
110. <u>0</u>	0 dBu∀/m	√/m							
00									
0									
0									
							FCC Part15 (C-Above 1	<u>a PK</u>
۰									
0							FCC Part15	C - Above 10	GAV
0									
0		X							
10		Š							
20 -									
0.0	00.000	3500.00 6	000.00	8500.00 11	000.00 (MHz)	16000.00	18500.00 21000	0.00 23500	.00 26000.
						1	I		
Ν	o.	Frequer (MHz	-	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1		4923.5	73	39.99	2.41	42.40	74.00	-31.60	peak
2	*	4924.6	41	24.49	2.41	26.90	54.00	-27.10	AVG
	narks		!						

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Ant	. Pol		Hori	zont	al								
Tes	t Mo	de:	TX 8	302.1	11ax(HE	E40) Mod	e 2	422N	/IHz				
Rer	nark	:			rt for the ed limit.	e emissio	n w	/hich	more	than 10 dB	below the	Э	
110.0) dBu'	V/m											
100													
90													
80										FCC Part15	C - Above 1	G PK	
70													
60										FCC Part15	C - Above 1	GAV	
50		2											
40		ş											
30		1 X											
20													
10.0 10	00.000	3500.00 6	000.00	850	0.00 11	000.00 (MH	lz)	160)00.00 ⁻	18500.00 2100	10.00 23500).00 26000).0
N	l o.	Frequer (MHz	-		ading BuV)	Factor (dB/m)			vel iV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	1 *	4844.0	63	2	5.53	2.24		27	.77	54.00	-26.23	AVG	Ţ
	2	4844.9	94	4	0.36	2.24		42	.60	74.00	-31.40	peak	

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Remarks:



	Vertical										
	(802.11ax(HE										
	report for the escribed limit.	emission v	vhich more t	han 10 dB t	pelow the	;					
	1										
				FCC Part15	C - Above 1	G PK					
				FCC Part15	C - Above 1	GAV					
ş											
×											
0.00 6000.0	0 8500.00 11	000.00 (MHz)	16000.00	8500.00 2100	0.00 23500	.00 26000					
requency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector					
844.103	26.11	2.24	28.35	54.00	-25.65	AVG					
844.209	40.83	2.24	43.07	74.00	-30.93	peak					
(MH 844	lz) .103	Hz) (dBuV) .103 26.11	Hz) (dBuV) (dB/m) .103 26.11 2.24	Hz) (dBuV) (dB/m) (dBuV/m) .103 26.11 2.24 28.35	Iz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) .103 26.11 2.24 28.35 54.00	Iz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) (dB) .103 26.11 2.24 28.35 54.00 -25.65					



Ant. P	ol.	Horizon	tal					
Test M	ode:	TX 802.	11ax(HE	40) Mode 2	2437MHz			
Remar	·k:		ed limit.	e emission v	which more f	han 10 dB t	below the	;
110.0 d	BuV/m							
100								
90								
80						FCC Part15	C - Above 1	G PK
70								
60						FCC Part15	C - Above 1	G AV
50	1×							
40	×							
30	ş							
20 10.0								
	00 3500.00 6	000.00 85	00.00 11	000.00 (MHz)	16000.00	8500.00 2100	0.00 23500	.00 26000.0
	Frequer		ading	Factor	Level	Limit	Margin	
No.	(MHz	•	lBuV)	(dB/m)	(dBuV/m)		(dB)	Detector
1	4873.5	36 3	9.94	2.30	42.24	74.00	-31.76	peak
2 *	4874.5	23 2	4.90	2.30	27.20	54.00	-26.80	AVG
Domor								

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Remarks:



Ant	. Pol		Verti	cal									
Tes	t Mo	de:	ТХ 8	302.´	11ax(HE	40) Mo	de 2	2437N	1Hz				
Rer	nark	:			t for the ed limit.	e emissi	on v	vhich	more t	han 10) dB b	elow the	9
110.) dBu	lV/m											
100													
90							_						
80							-			FCC	Part15 (- Above 1	G PK
70										1001		/ /	
60							_						
50										FCC	Part15 (C-Above 1	<u>G AV</u>
40		X											
30		ş											
20		^											
10.0													
10	100.000) 3500.00 6	000.00	850	0.00 11	000.00 (N	/Hz)	160	00.00 1	8500.00	21000	.00 23500	.00 26000.0
I													
N	lo.	Frequer (MHz	-		ading BuV)	Fact (dB/n			evel uV/m)	Lin (dBu)		Margin (dB)	Detector
1	1	4873.4	17	4	1.29	2.30)	43	.59	74.	00	-30.41	peak
2	*	4873.5	01	2	4.93	2.30)	27	.23	54.	00	-26.77	AVG
	norka												

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Remarks:



Ant. F	Pol.		Hori	zont	al							
Test I	Mode:				•	E40) Mod						
Rema	ark:		No r	epor cribe	t for the ed limit.	e emissio	n v	vhich	more t	han 10 dB l	pelow the	;
110.0	dBuV/m		10.00				_					
100												
90												
80										FCC Part15	C - Above 1	G PK
70												
60										FCC Part15	C - Above 1	G AV
50	1											
40		×										
30		ķ										
20 10.0												
).000 3500	0.00 6	000.00	850	10.00 1 ⁻	000.00 (M	Hz)	160	00.00	18500.00 2100	0.00 23500	.00 26000.0
No.		equer (MHz	-		ading BuV)	Facto (dB/m			vel V/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	49	903.60	09	4(0.39	2.36	-	42	.75	74.00	-31.25	peak
2 '	* 49	904.3	93	2	5.03	2.36		27	.39	54.00	-26.61	AVG
Rema	arks:											

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An	t. Pol	•	Verti	cal										
Tes	st Mo	de:	TX 8	02.11	ax(HE	40) M	ode 2	2452N	1Hz					
Re	mark:				for the I limit.	e emiss	sion v	vhich	more t	han 10 d	B b	elow the	;	
110.	0 dBu	//m												
100														
90														
80										FCC Pa	rt15 (C - Above 1	G PK	
70														
60										FCC Pa	rt15 (C - Above 1	G AV	
50														
40		×												
30		ž												
20														
10.0 11		3500.00 6	00.00	8500.0	NN 11	000.00	(MHz)	160	00.00 1	8500.00 2	21000	0.00 23500	.00 26000	пп
_						1		I						
1	No.	Frequer (MHz			ding uV)	Fac (dB/			vel IV/m)	Limit (dBuV/		Margin (dB)	Detector	r
	1	4903.4	67	40.	.26	2.3	36	42	.62	74.00)	-31.38	peak	
	2 *	4904.4	89	24.	.94	2.3	36	27	.30	54.00)	-26.70	AVG	

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Remarks:

ΕŇ



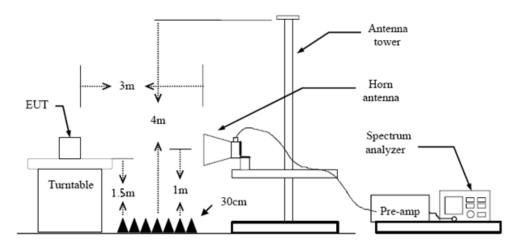
3.3. Band Edge Emissions (Radiated)

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d)/ RSS 247 5.5:

Restricted Frequency Band	(dBuV/m	n)(at 3m)
(MHz)	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

Test Configuration



Test Procedure

- 1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
- The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 2. degrees to determine the position of the maximum emission level.
- 3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- The receiver set as follow: 5.
 - RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.8 Duty Cycle.

Test Mode

Please refer to the clause 2.4.

Test Results



Ant.	Pol.		Hori	zontal					
lest	Mode) :	802	.11b Mode 2	2412MHz				
10.0	dBuV∕	'n							
00								M	
0									h
0							FCC Part15	¢-Above 1	G PK
0							/		
							FCC Parts	C - Above 1	GAV
0									¥
0	en en gelander de la	al for hand before the	www.alm	and the second	umman harrow when	and and a second se			
0 0.0									
2304	4.600 2	316.60	2328.60	2340.60 2	352.60 (MHz)	2376.60	2388.60 2400	.60 2412.	60 2424.6
No).	Freque (MHz		Reading (dBu∀)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
				00.40	30.84	53.32	74.00	-20.68	peak
1		2390.0	000	22.48	50.04	00.02	11.00		poun



EN

nt. Po	I.	Vert	ical					
est Mo	ode:	802	.11b Mode 2	412MHz				
10.0 dBu	uV/m							
00								
							n	
0								
0						FCC Part15	C-Above 1	G PK
0							/	
o							/	
- 						ECC Part15	<u>C - Above 1</u>	GAV
0								V
0			apa	an a	and the second and the second s	un ford		
o								
o								
0.0								
2304.00	0 2316.00	2328.00	2340.00 23	52.00 (MHz)	2376.00 2	2388.00 2400.	.00 2412.0	00 2424.0
No.	Freque (MH:		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0	000	22.47	30.84	53.31	74.00	-20.69	peak
2 *	2390.0	000	7.22	30.84	38.06	54.00	-15.94	AVG
	I				1		1	
Remark	-	Antor	nna Factor (c		o Footor (d		fior Foot	



nt. Pol	•	Horiz	zontal					
est Mo	de:	802.	11b Mode 2	462 MHz				
110.0 dBu	uV/m							
100 90 80						FCC Part15	C - Above 1	G PK
70								
60		h	1			FCC Part15	C - Above 1	GAV
50		ł						
40		1	La Senter Whoman	menon marked have me	and the and a supervision of the	and an and the second	uter-striningerer	when we had
30								
20								
2450.050	0 2462.05 2	474.05	2486.05 24	198.05 (MHz)	2522.05 2	2534.05 2546.	05 2558.0	15 2570.0
1						I		
No.	Frequer (MHz	-	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
No. 1	•)						Detector peak



nt. Po	I.	Vert	ical						
est Mo	de:	802.	11b Mode	e 240	62 MHz				
10.0 dB	uV/m	i							
00	\bigwedge								
							FCC Part15	C - Above 1	G PK
D 🕇							Teeruna	C ADOVE I	
o			1						
o 🗲		m	1				FCC Part15	C - Above 1	
o		٧L		a chu ci	d and marked	washes where soft a Marshave	anna harring	and the second second	-
D									
0									
0.0	0 2462.05 2	474.05	2486.05	2498	.05 (MHz)	2522.05	2534.05 2546	05 2558.0	15 2570.0
	Frequer		Reading		Factor	Level	Limit	Margin	
No.	(MHz		(dBuV)	-	(dB/m)		(dBuV/m)		Detector
1	2483.5	00	22.81		31.24	54.05	74.00	-19.95	peak
2 *	2483.5	00	6.34		31.24	37.58	54.00	-16.42	AVG
emark	e.								
.Factor					/m)+Cabl	e Factor (di	3)-Pre-ampl	ifier Fact	or



nt. Po	I.	Horiz	zontal					
est Mo		802.	11g Mode 2	412MHz				
0.0 dB	uV/m							
00								
,								
.						FCC Part15 C	C-Above 10	
)						ł.		
)						FCC Part15 C	- Above 10	AV
) —						ų.		
)	Norman Marrie			1	manutant			
)	4 Charlen - Franker - Andre - An	ne (in your de	a land and a start of the start					
,								
).0								
No.	Freque (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
NU.						74.00	-9.58	peak
1	2390.0	00	33.58	30.84	64.42	74.00	-9.56	pear
	2300 0	00	33 58	30.84	64 42			



Frequency Reading Factor Level Limit Margin	nt. Po		Verti	cal					
No. Frequency (MHz) Reading (dBuV) Factor (dBnW) Level (dBuV/m) Limit (dBuV/m) Margin (dBuV/m) Detector 1 2390.000 28.77 30.84 59.61 74.00 -14.39 peak			802.	11g Mode 2	412MHz				
No. Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) Limit (dBuV/m) Margin (dB) Detector (dB) 1 2390.000 28.77 30.84 59.61 74.00 -14.39 peak	10.0 dBu	ıV/m							
No. Frequency (MHz) Reading (dBuV) Factor (dBuV) Level (dBuV/m) Limit (dBuV/m) Margin (dBuV/m) Detector 1 2390.000 28.77 30.84 59.61 74.00 -14.39 peak	00								
Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) Limit (dBuV/m) Margin (dBuV/m) Detector 1 2390.000 28.77 30.84 59.61 74.00 -14.39 peak	0							~~~~	
No. Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) Limit (dBuV/m) Margin (dB) Detector (dB) 1 2390.000 28.77 30.84 59.61 74.00 -14.39 peak	o						FCC Part15	C - Above 1	G PK
No. Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) Limit (dBuV/m) Margin (dBuV/m) Detector (dB) 1 2390.000 28.77 30.84 59.61 74.00 -14.39 peak	0								
No. Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) Limit (dBuV/m) Margin (dB) Detector (dB) 1 2390.000 28.77 30.84 59.61 74.00 -14.39 peak	0						ł		
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No. Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) Limit (dBuV/m) Margin (dB) Detector 1 2390.000 28.77 30.84 59.61 74.00 -14.39 peak									
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	2 *	2390.0	00	13.85	30.84	44.69	54.00	-9.31	AVG



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1	1	2483	.500	3	5.02	31.2	4	66	26	74.00)	-7.74	peak
2	*	2483	.500	1	8.48	31.2	4	49	.72	54.00)	-4.28	AVG
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		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detecto
2483.50	00	29.61	31.24	60.85	74.00	-13.15	peak
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2390.000	29.24	30.84	60.08	74.00	-13.92	peak
2390.000	15.24	30.84	46.08	54.00	-7.92	AVG
3	116.60 2328. Frequency	Frequency (MHz) (MHz) 2390.000 29.24	Frequency (MHz) Reading (dBuV) Factor (dB/m) 2390.000 29.24 30.84	Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) 2390.000 29.24 30.84 60.08	Frequency Reading Factor (MHz) 2376.60 2388.60 2400.0 (MHz) Reading Factor (dB/m) (dBuV/m) (dBuV/m) 2390.000 29.24 30.84 60.08 74.00	Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) Limit (dBuV/m) Margin (dB) 2390.000 29.24 30.84 60.08 74.00 -13.92



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No.	Frequ (Mł		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390	.000	28.72	30.84	59.56	74.00	-14.44	peak
2 *	2390	.000	17.23	30.84	48.07	54.00	-5.93	AVG



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1		2483.5	00	34	4.89	3	1.24		66	.13	74	1.00	-7.87	peak
2	*	2483.5	00	1	7.82	3	1.24		49	.06	54	1.00	-4.94	AVG
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Remarks:



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1	1	2483.5	00	28	3.76	31	24	60.	00	74.00	-14	1.00	peak	
2	*	2483.5	00	13	3.14	31	24	44.	38	54.00	-9	.62	AVG	
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	0 2310.25	2325.25	2340.25 235	5.25 (MHz)	2385.25 2	400.25 2415.2	25 2430.2	5 2445.25
No.	Freque (MH		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0	000	35.02	30.84	65.86	74.00	-8.14	peak
2 *	2390.0	000	21.56	30.84	52.40	54.00	-1.60	AVG
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0.0) 2308.00	2323.00	2338.00 23	53.00 (MHz)	2383.00 2	398.00 2413.	00 2428.0	0 2443.0
No.	Freque		Reading	Factor	Level	Limit	Margin	Detector
	(MH	z)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
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	1	2	483.5	00	2	7.38		31.2	4	58	3.62	74.00)	-15.38	peak
2	2 *	2	483.5	00	1	7.91		31.2	4	49	9.15	54.00)	-4.85	AVG

2.Margin value = Level -Limit value



Ant. Pol. Test Moc	le:	Vertica	I											
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No.	Frequer (MHz		eading dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector						
1	2483.50	00	25.81	31.24	57.05	74.00	-16.95	peak						
2 *	2483.50	00	14.99	31.24	46.23	54.00	-7.77	AVG						
Remarks														

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Ant. Po	-	Hori	zontal					
est Mo	de:	ТХ	302.11ax(HE	20) Mode 2	2412MHz			
110.0 dB	uV/m							
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No.	Freque (MH:		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0	000	28.67	30.84	59.51	74.00	-14.49	peak
2 *	2390.0	000	16.03	30.84	46.87	54.00	-7.13	AVG



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est Mo	de:	TX 8	302.11ax(HE	20) Mode 2	2412MHz			
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No.	Frequer (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.0	00	32.43	30.84	63.27	74.00	-10.73	peak
2 *	2390.0	00	18.24	30.84	49.08	54.00	-4.92	AVG
Remark								

2.Margin value = Level -Limit value

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0.0	0 2462.05	2474.05	2486.05	0.40	18.05 (M	IHz)	050	2.05 2	534.05 25	46.0	5 2558.	05 2570.0
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1	2483.	.500	32.5	7	31.24	4	63	.81	74.00		-10.19	peak
2 *	2483.	500	18.6	3	31.24	4	49	.87	54.00		-4.13	AVG



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Test Mode	: TX	K 802.11ax(HE	20) Mode 2	2462MHz			
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2450.050 2	462.05 2474.0	05 2486.05 24	98.05 (MHz)	2522.05 2	534.05 2546.0)5 2558.0	5 2570.05
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	27.55	31.24	58.79	74.00	-15.21	peak
2 *	2483.500	14.38	31.24	45.62	54.00	-8.38	AVG
Remarks:							
	IB/m) = Ante	enna Factor (d	B/m)+Cable	e Factor (dB)-Pre-ampli	fier Facto	or

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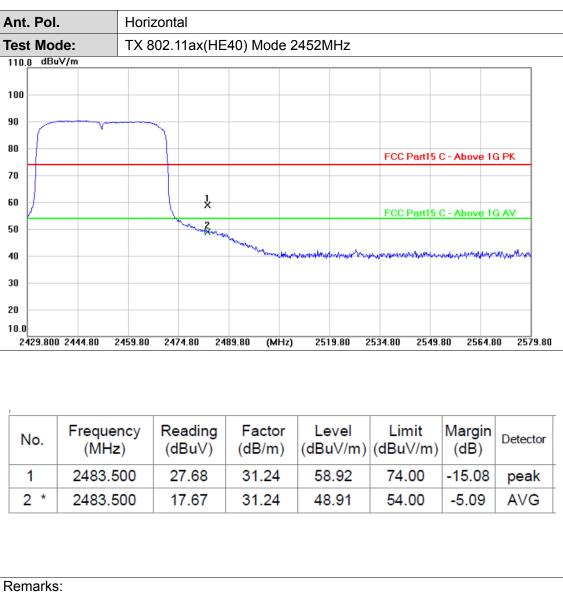
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N	o.	Freque (MHz	-	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1		2390.0	000	30.90	30.84	61.74	74.00	-12.26	peak
2	*	2390.0	000	20.43	30.84	51.27	54.00	-2.73	AVG



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est Mo		TX 8	802.11ax(HE	40) Mode 2	422MHz			
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	`	000	28.10 15.38	30.84 30.84	58.94 46.22	74.00 54.00	-15.06 -7.78	AVG





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).0 2430-250	2445.25	2460.25	2475.25 24	90.25 (MHz)	2520.25 2	535.25 2550.	25 2565.2	25 2580.2
No.	Freque (MH:		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.5	500	26.88	31.24	58.12	74.00	-15.88	peak
	2483.5	500	16.04	31.24	47.28	54.00	-6.72	AVG
2 *								

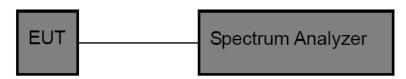


3.4. Band edge and Spurious Emissions (Conducted)

<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

Test Configuration



Test Procedure

- 1. The transmitter output was connected to the spectrum analyzer through an 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
- Use the following spectrum analyzer settings: RBW = 100 kHz, VBW ≥ RBW, scan up through 10th harmonic. Sweep = auto, Detector function = peak, Trace = max hold
- Measure and record the results in the test report.

Test Mode

Please refer to the clause 2.4.

Test Results



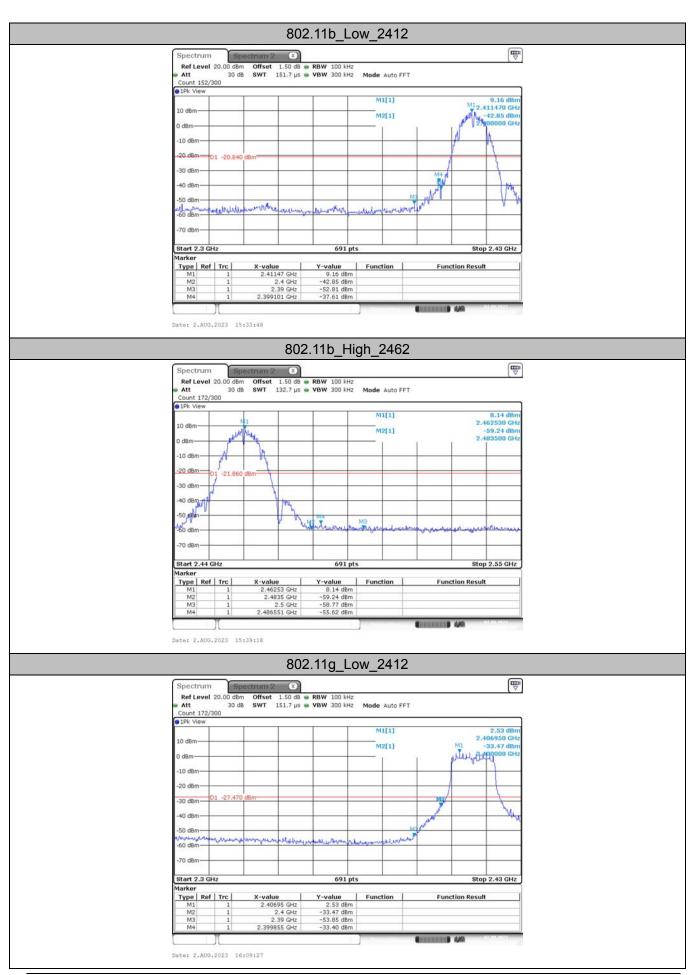
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(1) Band edge Conducted Test

Test Mode	Test Frequency	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
802.11b	2412	9.16	-37.61	≤-20.84	PASS
002.110	2462	8.14	-55.62	≤-21.86	PASS
900 11 a	2412	2.53	-33.40	≤-27.47	PASS
802.11g	2462	1.13	-48.16	≤-28.87	PASS
902 11p(UT20)	2412	4.24	-30.75	≤-25.76	PASS
802.11n(HT20)	2462	4.00	-45.99	≤-26.00	PASS
902 11p(UT40)	2422	0.67	-33.10	≤-29.33	PASS
802.11n(HT40)	2452	0.13	-36.55	≤-29.87	PASS
902 11 ov (UE20)	2412	3.87	-31.34	≤-26.13	PASS
802.11ax(HE20)	2462	1.76	-45.08	≤-28.24	PASS
	2422	1.81	-32.57	≤-28.19	PASS
802.11ax(HE40)	2452	-1.53	-43.10	≤-31.53	PASS

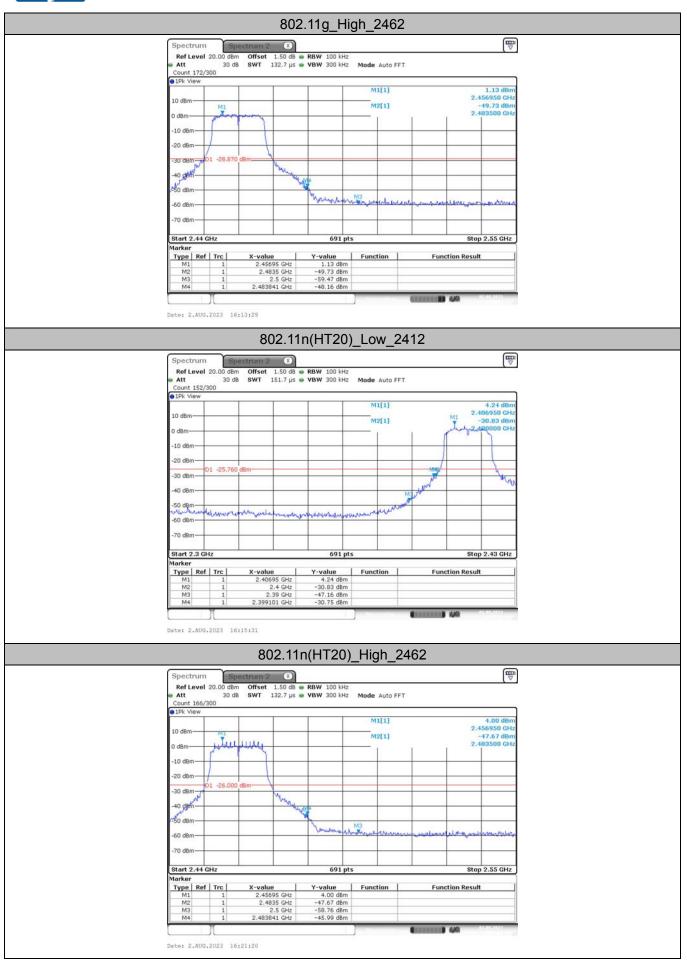


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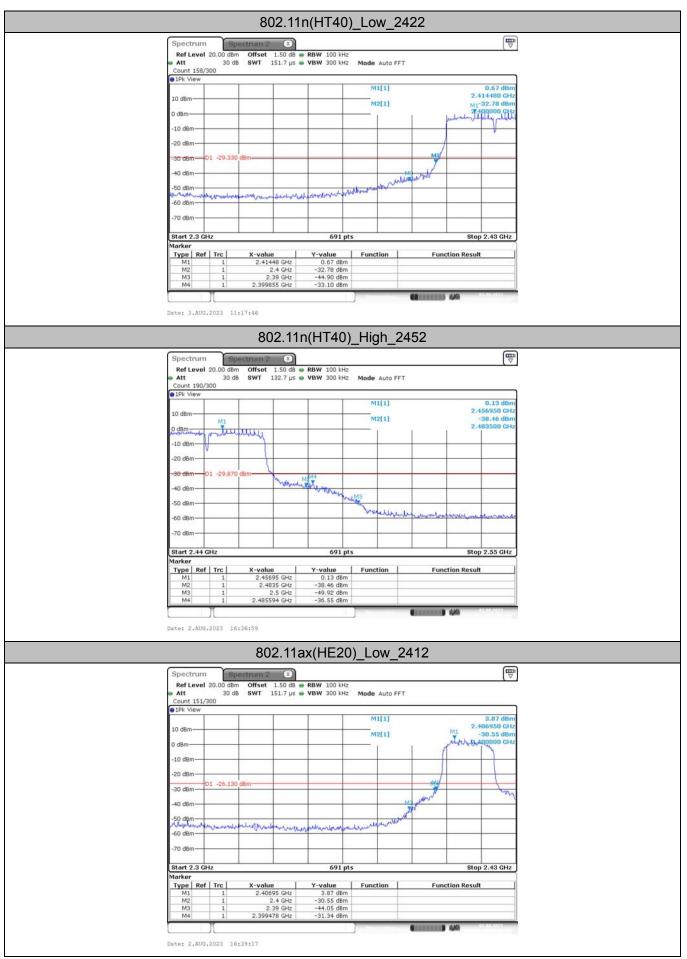






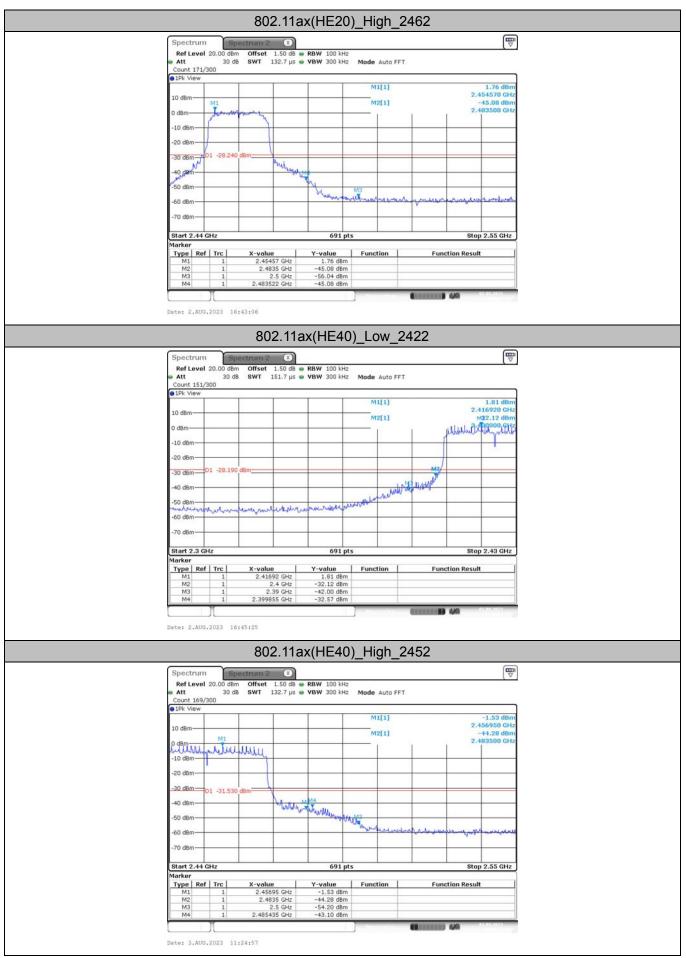














(2) Conducted Spurious Emissions Test

Test Mode	Channel	Freq Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
		Reference	9.22	9.22		PASS
	2412	30~1000	9.22	-59.45	≤-20.78	PASS
		1000~26500	9.22	-45.53	≤-20.78	PASS
		Reference	8.11	8.11		PASS
802.11b	2437	30~1000	8.11	-59.17	≤-21.89	PASS
		1000~26500	8.11	-48.00	≤-21.89	PASS
		Reference	8.09	8.09		PASS
	2462	30~1000	8.09	-58.87	≤-21.91	PASS
		1000~26500	8.09	-47.89	≤-21.91	PASS
		Reference	2.45	2.45		PASS
	2412	30~1000	2.45	-59.02	≤-27.55	PASS
		1000~26500	2.45	-49.04	≤-27.55	PASS
		Reference	5.04	5.04		PASS
802.11g	2437	30~1000	5.04	-59.18	≤-24.96	PASS
		1000~26500	5.04	-49.11	≤-24.96	PASS
		Reference	2.19	2.19		PASS
	2462	30~1000	2.19	-58.78	≤-27.81	PASS
		1000~26500	2.19	-49.08	≤-27.81	PASS
		Reference	5.63	5.63		PASS
	2412	30~1000	5.63	-59.36	≤-24.37	PASS
		1000~26500	5.63	-49.39	≤-24.37	PASS
		Reference	1.60	1.60		PASS
802.11n(HT20)	2437	30~1000	1.60	-59.54	≤-28.4	PASS
		1000~26500	1.60	-49.24	≤-28.4	PASS
	2462	Reference	4.08	4.08		PASS
		30~1000	4.08	-58.15	≤-25.92	PASS
		1000~26500	4.08	-49.47	≤-25.92	PASS
		Reference	0.54	0.54		PASS
	2422	30~1000	0.54	-59.04	≤-29.46	PASS
		1000~26500	0.54	-49.55	≤-29.46	PASS
		Reference	0.96	0.96		PASS
802.11n(HT40)	2437	30~1000	0.96	-59.31	≤-29.04	PASS
		1000~26500	0.96	-48.97	≤-29.04	PASS
		Reference	0.94	0.94		PASS
	2452	30~1000	0.94	-59.64	≤-29.06	PASS
		1000~26500	0.94	-49.00	≤-29.06	PASS
		Reference	6.02	6.02		PASS
	2412	30~1000	6.02	-58.99	≤-23.98	PASS
802.11ax(HE20)		1000~26500	6.02	-49.63	≤-23.98	PASS
	0407	Reference	5.08	5.08		PASS
	2437	30~1000	5.08	-59.10	≤-24.92	PASS

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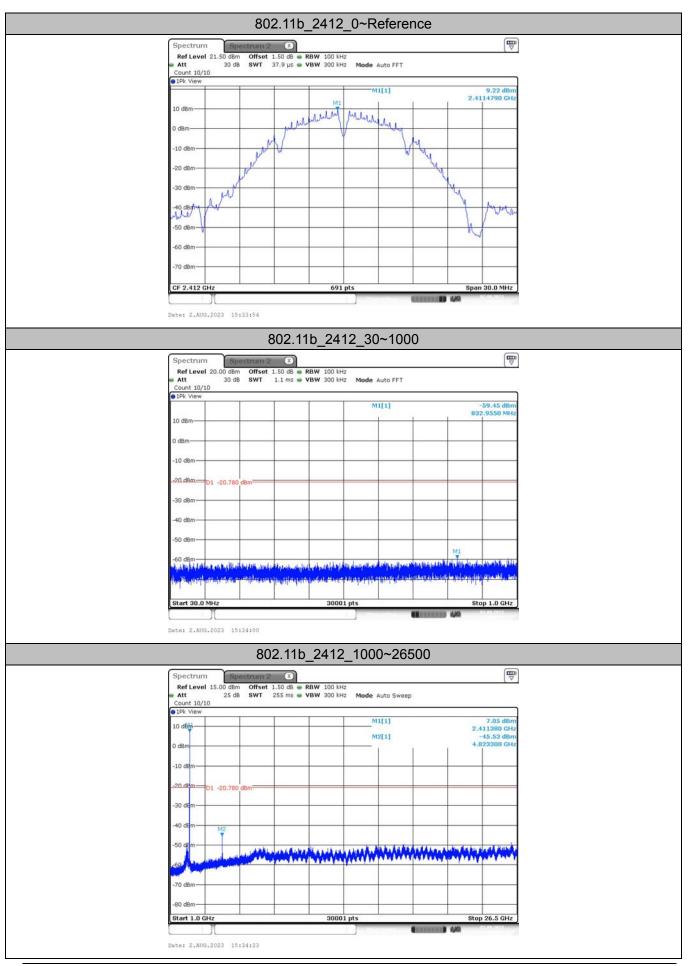
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn 证认可监督管理委员会 For anti-fake verification, please visit the official website of Certification and

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		1000~26500	5.08	-49.30	≤-24.92	PASS
		Reference	2.61	2.61		PASS
	2462	30~1000	2.61	-58.38	≤-27.39	PASS
		1000~26500	2.61	-48.71	≤-27.39	PASS
		Reference	1.39	1.39		PASS
	2422	30~1000	1.39	-58.03	≤-28.61	PASS
		1000~26500	1.39	-49.78	≤-28.61	PASS
		Reference	1.37	1.37		PASS
802.11ax(HE40)	2437	30~1000	1.37	-58.77	≤-28.63	PASS
		1000~26500	1.37	-48.54	≤-28.63	PASS
		Reference	-1.88	-1.88		PASS
	2452	30~1000	-1.88	-59.29	≤-31.88	PASS
		1000~26500	-1.88	-48.96	≤-31.88	PASS

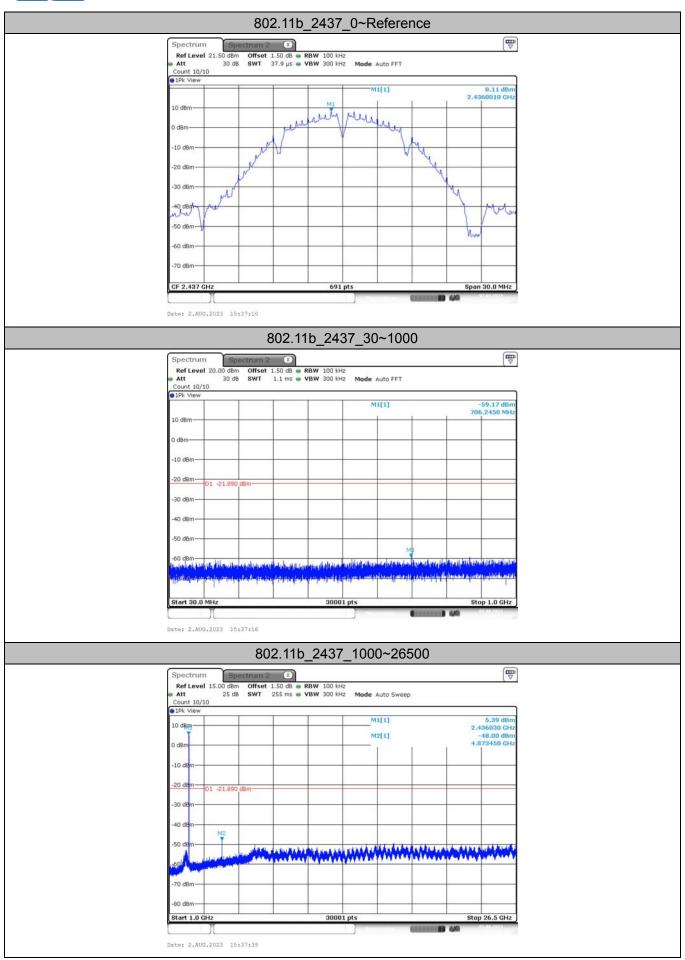






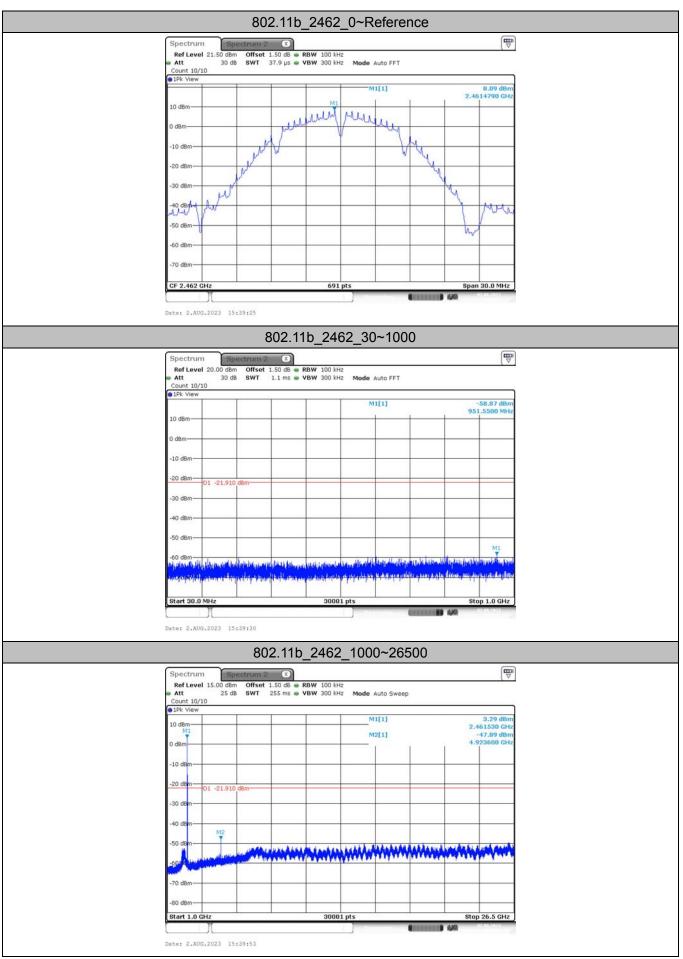
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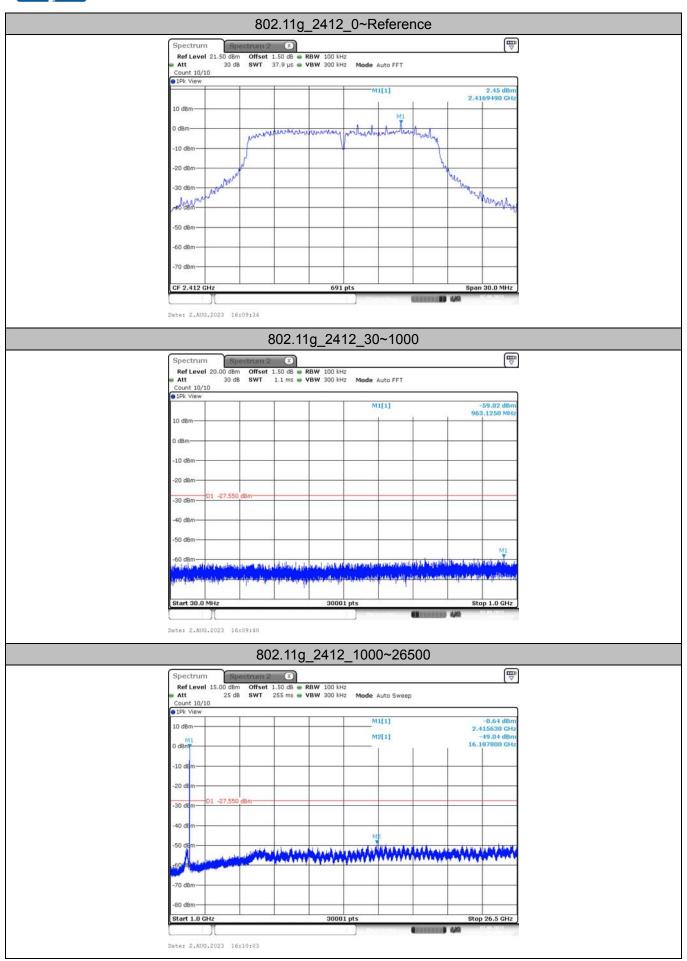






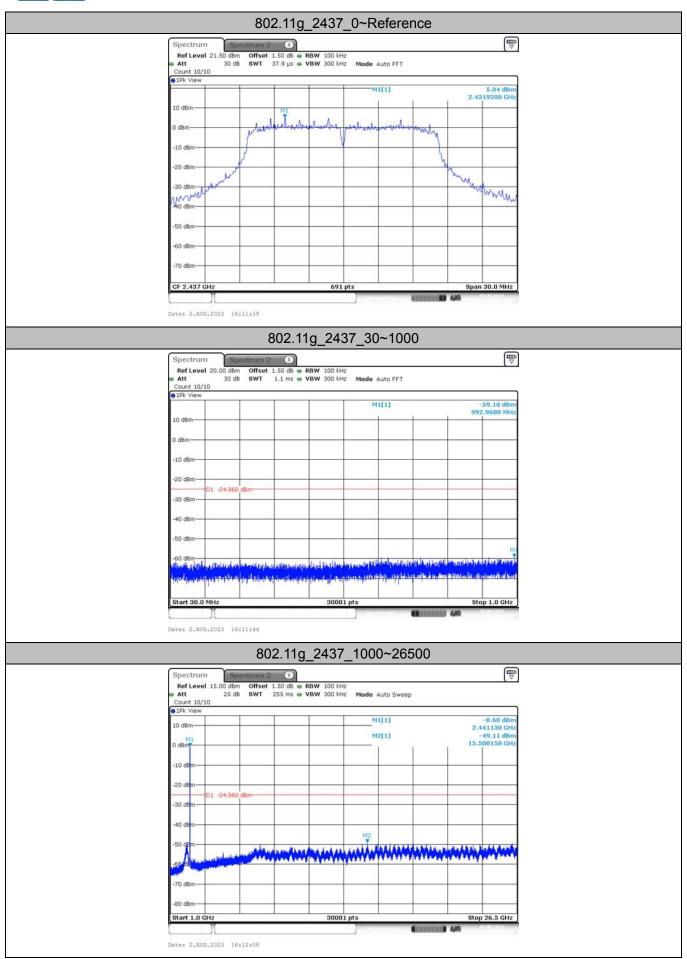




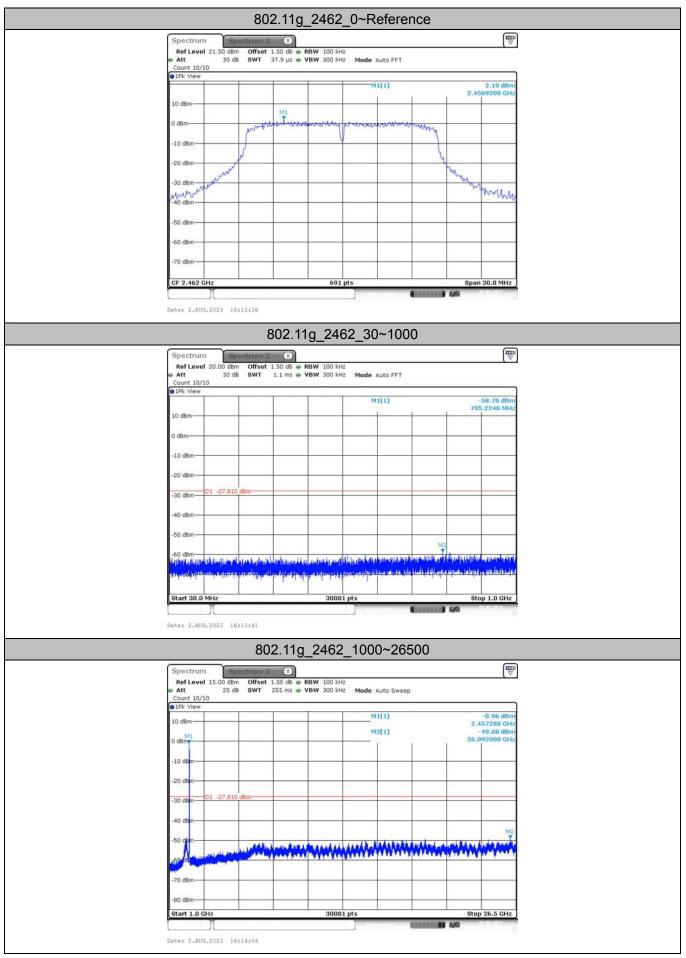






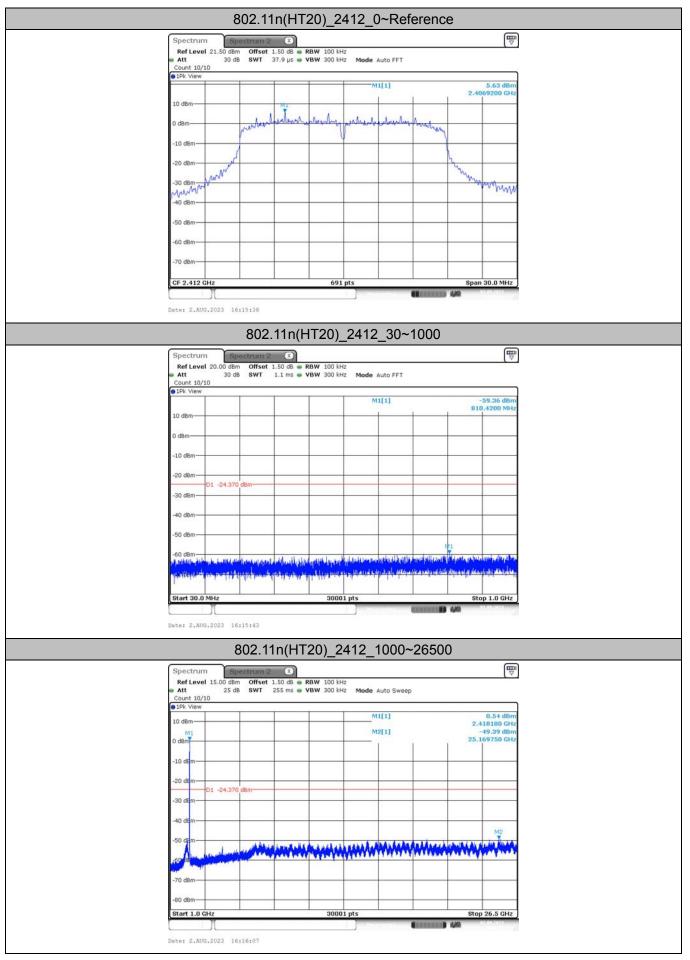






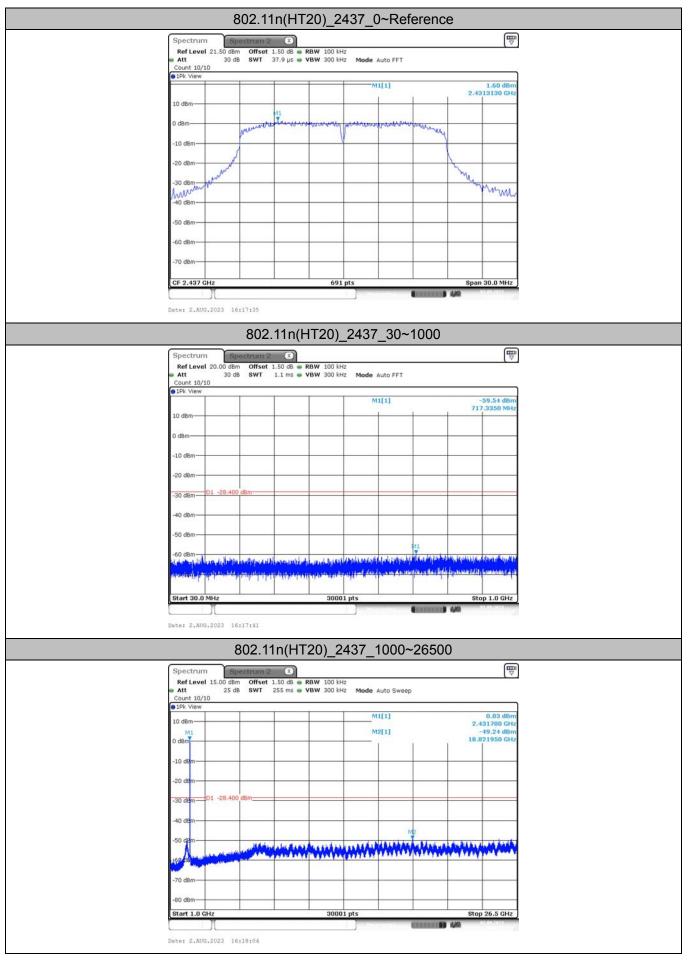






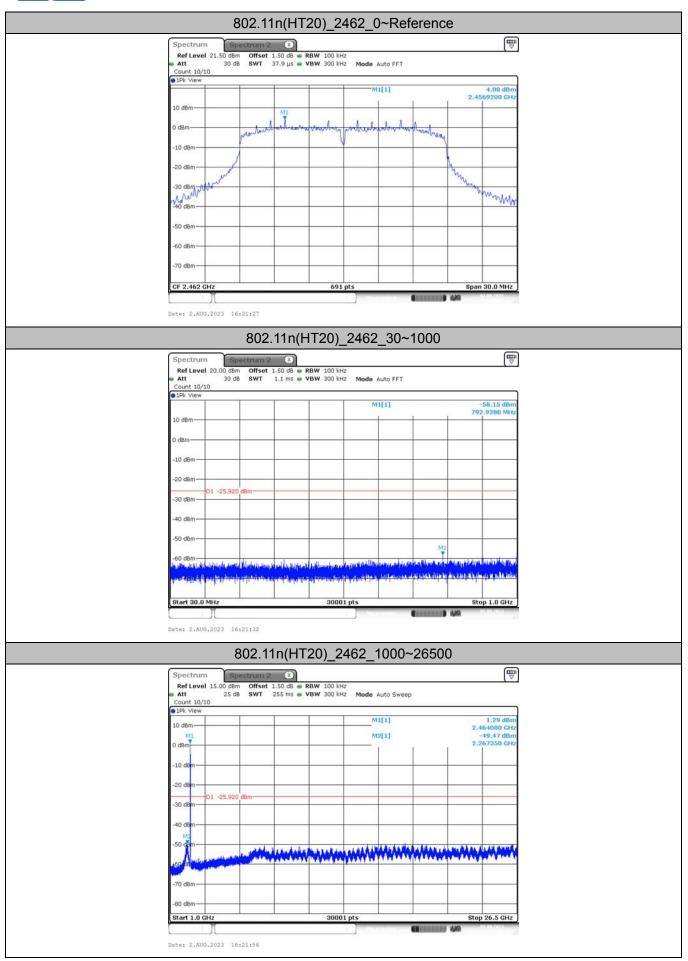


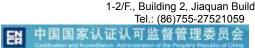




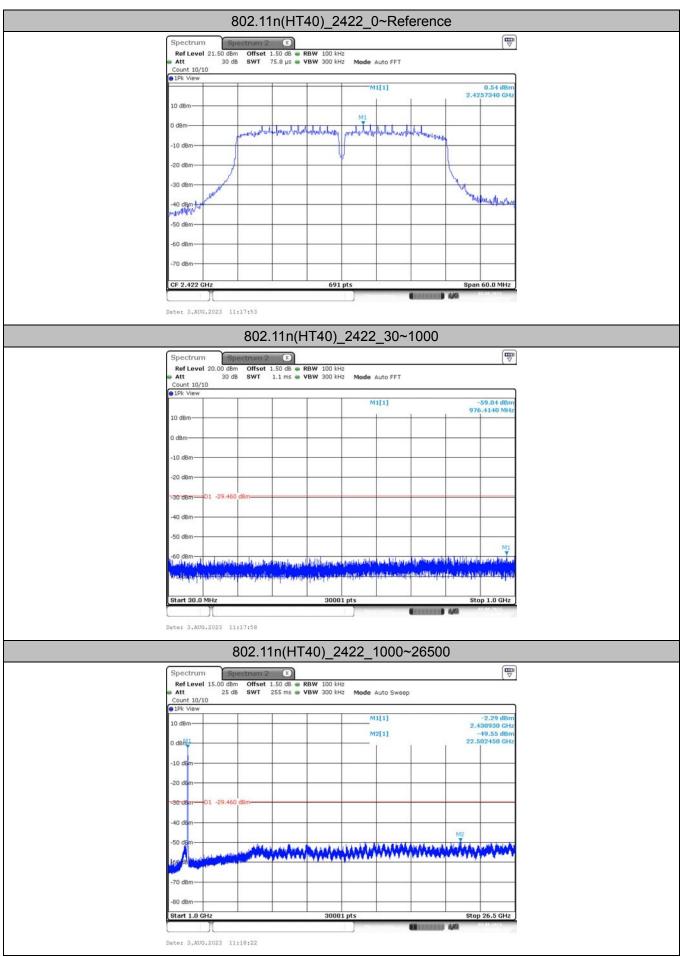


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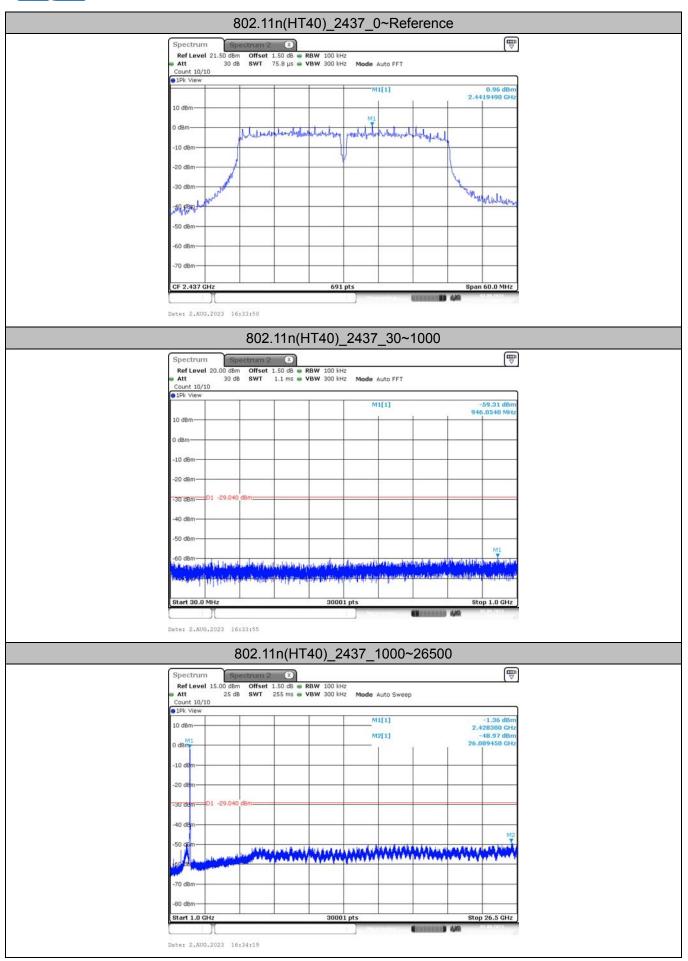








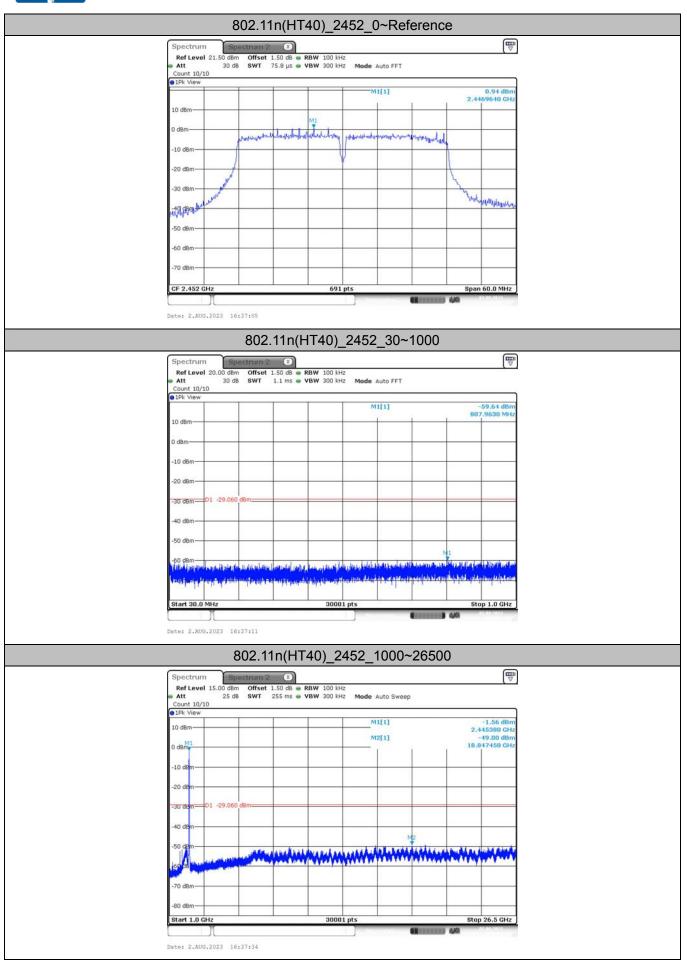
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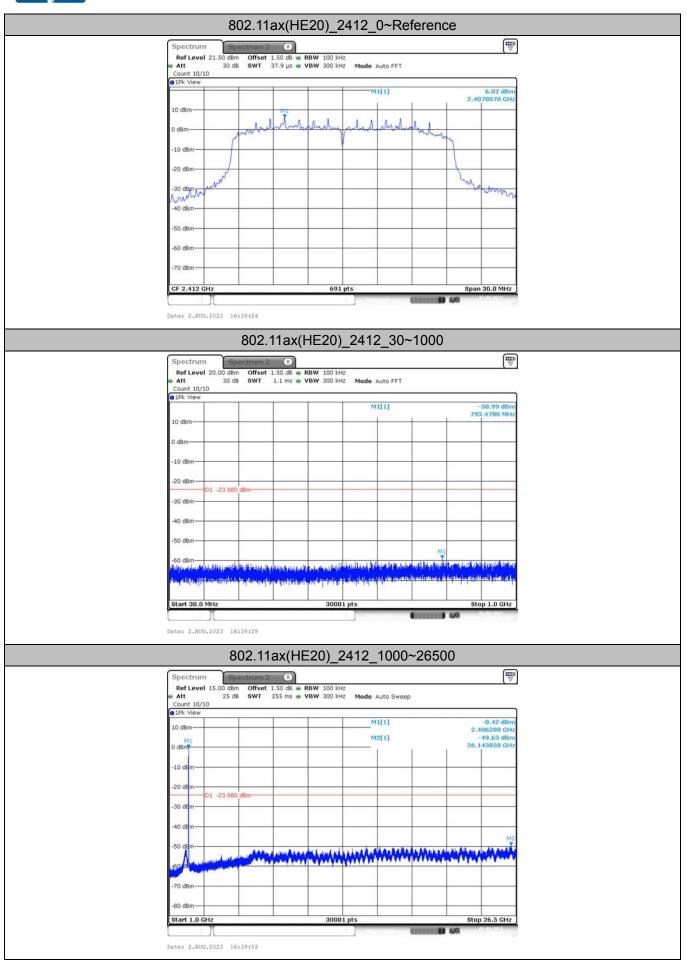
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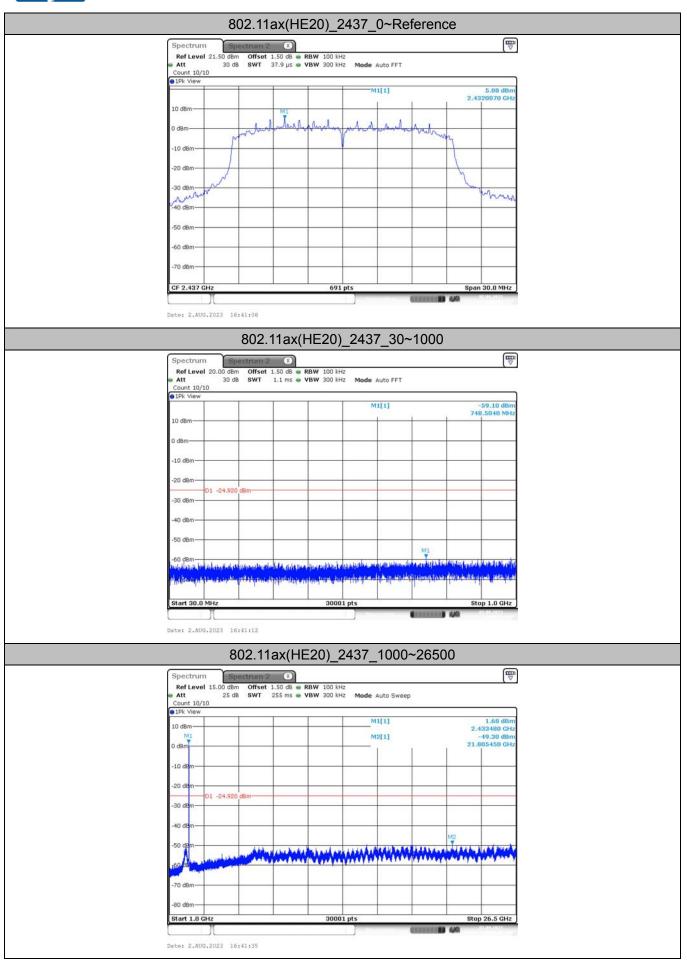
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