

TEST REPORT

•				
Report No:	: CTC2024306801			
FCC ID:	2BM6KC1			
Applicant:	Shenzhen Ningxin Juli Technical Service Co., Ltd.			
Address:	Floor 3, Building C, Shenli Industrial Park, Huaqing Avenue, Tsinghua Community, Longhua Street, Longhua District, Shenzhen China			
Manufacturer	SHENZHEN AONI ELECTRONIC	CO., LTD		
Address:	No.5, Bldg., Honghui Industrial Par streets, Bao'an District Shenzhen			
Product Name:	DASHCAM			
Trade Mark:	sarmert			
Model/Type reference:	C1			
Listed Model(s):	1			
Standard:	FCC CFR Title 47 Part 15 Subpart C Section 15.247			
Test Report Form No	CTC-TR-057_A1			
Master TRF:	Dated 2024-09-20			
Date of receipt of test sample	Dec. 25, 2024			
Date of testing	Dec. 25, 2024 ~ Feb. 18, 2025			
Date of issue	Feb. 19, 2025			
Result:	PASS			
Compiled by:		T. Jiang		
(Printed name+signature)	Jim Jiang	Jim - J		
Supervised by:		Jim Jiang Zric zhang		
(Printed name+signature)				
		Jemas		
Approved by:		location		
(Printed name+signature)	Totti Zhao	/		
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Society : <u>yz.cnca.cn</u>



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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 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz.

<u>RSS-247 Issue 3</u>: Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices.

RSS-Gen Issue 5: General Requirements for Compliance of Radio Apparatus.

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

1.2. Report Version

Revised No.	Report No.	Date of issue	Description
01	CTC2024306801	Feb. 19, 2025	Original

1.3. Test Description

FCC Part 15 Subpart C (15.247) / RSS-247 Issue 3				
Test Item	Standard Section		Result	Test
	FCC	ISED	Result	Engineer
Antenna Requirement	15.203	RSS-Gen 6.8	Pass	Jim Jiang
Conducted Emission	15.207	RSS-Gen 8.8	Pass	Jim Jiang
Conducted Band Edge and Spurious Emissions	15.247(d)	RSS-247 5.5	Pass	Jim Jiang
Radiated Band Edge and Spurious Emissions	15.205&15.209& 15.247(d)	RSS-247 5.5	Pass	Jim Jiang
6dB Bandwidth	15.247(a)(2)	RSS-247 5.2 (a)	Pass	Jim Jiang
Occupied Bandwidth	/	RSS-Gen 6.7	Pass	Jim Jiang
Conducted Max Output Power	15.247(b)(3)	RSS-247 5.4 (d)	Pass	Jim Jiang
Power Spectral Density	15.247(e)	RSS-247 5.2 (b)	Pass	Jim Jiang
Transmitter Radiated Spurious	15.209&15.247(d)	RSS-247 5.5& RSS-Gen 8.9	Pass	Jim Jiang

Note:

1. The measurement uncertainty is not included in the test result.

2. N/A: means this test item is not applicable for this device according to the technology characteristic of device.

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1.4. Test Facility

Address of the report laboratory

CTC Laboratories, Inc.

Add: Room 101 of Building B, Room 107, 108, 207, 208 of Building A, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, 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.

Innovation, Science and Economic Development 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 in our files. Registration 951311, Aug 26, 2017.

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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 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile 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.

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)

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

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:	15 °C to 35 °C
Relative Humidity:	20 % to 75 %
Air Pressure:	101 kPa

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2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Shenzhen Ningxin Juli Technical Service Co., Ltd.
Address:	Floor 3, Building C, Shenli Industrial Park, Huaqing Avenue, Tsinghua Community, Longhua Street, Longhua District, Shenzhen China
Manufacturer/ Factory:	SHENZHEN AONI ELECTRONIC CO., LTD
Address:	No.5, Bldg., Honghui Industrial Park, 2nd Liuxian Road, Xin'An streets, Bao'an District Shenzhen China

2.2. General Description of EUT

Product Name:	DASHCAM		
Trade Mark:	sarmert		
Model/Type reference:	C1		
Listed Model(s):	/		
Model Difference:	/		
Sample ID:	CTC241217-008-S004, CTC241217-008-S005		
Power Supply:	Type-C Input: DC5V 2.5A		
Hardware Version:	/		
Software Version:	DC-C1 EN V1.7 20240705		
2.4G Wi-Fi			
Modulation:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/ n: OFDM (BPSK, QPSK, 16QAM, 64QAM)		
Operation Frequency:	802.11b/ g/ n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz		
Channel Number:	802.11b/ g/ n(HT20): 11 channels 802.11n(HT40): 7 channels		
Channel Separation:	5MHz		
Antenna Type:	FPC Antenna		
Antenna Type.			

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2.3. Accessory Equipment Information

Equipment Information				
Name	Model	S/N	Manufacturer	
Notebook	ThinkPad T460s	MP246QDR	Lenovo	
Adapter	A2167	/	Apple	
Cable Information				
Name	Shielded Type	Ferrite Core	Length	
USB Cable	Unshielded	NO	100cm	
Test Software Information				
Name	Version	1	/	
SecureCRTPortable	7.1.1	/	/	

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), CH 03~CH 09 for 802.11n(HT40).

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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 the worst case mode.

Test Mode	Data Rate (worst mode)	
802.11b	1Mbps	
802.11g	6Mbps	
802.11n(HT20)/ (HT40)	HT-MCS0	

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 is powered by an adapter, and the phone is connected to the EUT using the RoadRec app.

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.

Power Setting: All modes are tested with default power.

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2.5. Measurement Instruments List

	RF Test System - SRD						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until		
1	Spectrum Analyzer	R&S	FSV40-N	101331	Mar. 21, 2025		
2	MXA Signal Analyzer	Keysight	N9020A	MY46471737	Dec. 12, 2025		
3	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 12, 2025		
4	PSG Analog Signal Generator	Agilent	E8257D	MY46521908	Dec. 12, 2025		
5	EXG Analog Signal Generator	Keysight	N5173B	MY59100842	Dec. 12, 2025		
6	MXG Vector Signal Generator	Keysight	N5182B	MY59100212	Dec. 12, 2025		
7	USB Wideband Power Sensor	Keysight	U2021XA	MY55130004	Mar. 21, 2025		
8	USB Wideband Power Sensor	Keysight	U2021XA	MY55130006	Mar. 21, 2025		
9	Wideband Radio Communication Tester	R&S	CMW500	102414	Dec. 12, 2025		
10	High and low temperature test chamber	ESPEC	MT3035	/	Mar. 21, 2025		
11	RF Control Unit	Tonscend	JS0806-2	/	Aug. 21, 2025		

		Radiated I	Emission		
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9163	01026	Dec. 24, 2025
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Sep. 25, 2025
3	Test Receiver	Keysight	N9038A	MY56400071	Dec. 12, 2025
4	Broadband Amplifier	SCHWARZBECK	BBV9743B	259	Dec. 12, 2025
5	Mirowave Broadband Amplifier	SCHWARZBECK	BBV9718C	111	Dec. 12, 2025
6	3m chamber 3	YIHENG	EE106	/	Aug. 28, 2026
7	Test Software	FARA	EZ-EMC	FA-03A2	/

	Conducted Emission										
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated Until						
1	LISN	R&S	ENV216	101112	Dec. 12, 2025						
2	LISN	R&S	ENV216	101113	Dec. 12, 2025						
3	EMI Test Receiver	R&S	ESCS30	100353	Dec. 12, 2025						
4	ISN CAT6	Schwarzbeck	NTFM 8158	CAT6-8158-0046	Dec. 12, 2025						
5	ISN CAT5	Schwarzbeck	NTFM 8158	CAT5-8158-0046	Dec. 12, 2025						
6	Test Software	R&S	EMC32	6.10.10	/						

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

2. The Cal. Interval was three years of the antenna.

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

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3. TEST ITEM AND RESULTS

3.1. Conducted Emission

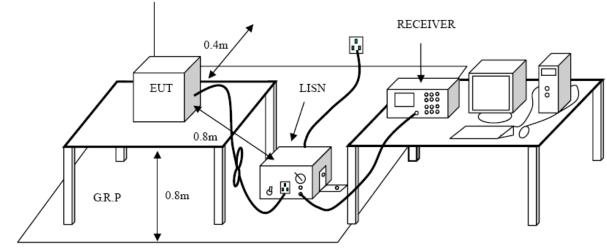
<u>Limit</u>

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

	Conducte	ed Limit (dBμV)
Frequency (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 impedance stabilization network (LISN). The LISN provides a 50 ohm / 50 μ H coupling impedance for the measuring equipment. 4. 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)

5. 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.

6. 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.

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

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

Test Mode

Please refer to the clause 2.4.

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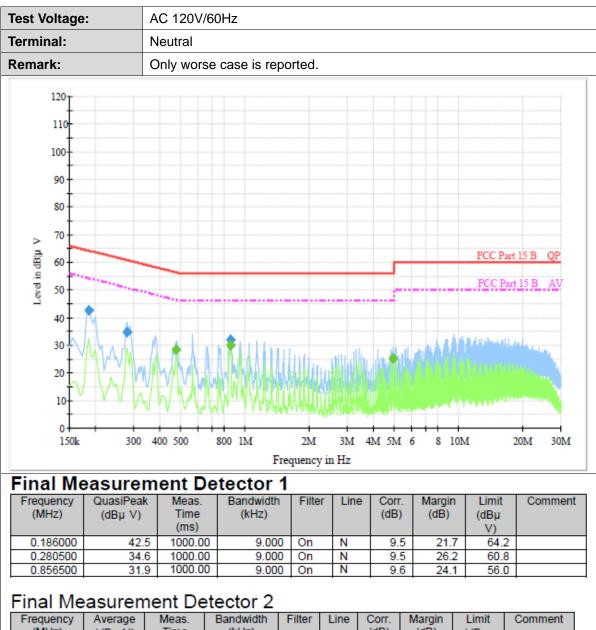
Test Voltage	:	AC 120V/	60Hz						
Terminal:		Line							
Remark:		Only wors	se case is re	ported.					
120									
110									
100									
		D D							
90									
80 -									
70									
~								FCC Par	t 15 B OP
월 60								Teera	
on dBu ∨ 00 dBu ∨ 00 dBu ∨								FCC Pai	t 15 B AV
- 40	•								
40 I								-	
30		1					n de la la		1010 Land
30 20	MMM						WW		ulture de
20							WW		
N									
20 10							+ + +		
20	300	400 500	800 IM	2M	3M	4M 5M	+ + +		20M 30M
20 10 150k			F	requency		4M 5M	+ + +		
20 10 150k	easurer	nent D	etector	requency 1	in Hz		6 8 1	0M	20M 30M
20 10 150k	easurer QuasiPeak	nent D	etector Bandwidth	requency 1	in Hz	e Corr.	6 8 1 Margin	0M	
20 10 150k Final Me Frequency (MHz)	QuasiPeak (dBµ V)	Meas. Time (ms)	Petector Bandwidth (kHz)	1 Filte	r Line	e Corr. (dB)	6 8 1 Margin (dB)	Limit (dBµ V)	20M 30M
20 10 150k Final Me Frequency (MHz) 0.186000	QuasiPeak (dBµ V) 42.1	Meas. Time (ms)	Petector Bandwidth (kHz) 0 9.00	1 Filte	r Line	e Corr. (dB) 9.5	6 8 1 Margin (dB)	Limit (dBµ V) 1 64.2	20M 30M
20 10 150k Final Me Frequency (MHz)	QuasiPeak (dBµ V)	Meas. Time (ms) 1000.00 1000.00	Petector Bandwidth (kHz) 0 9.00 0 9.00	Tequency 1 Filte 0 On 0 On	r Line	e Corr. (dB)	6 8 1 Margin (dB) 5 22.1	Limit (dBµ V) 1 64.2 1 60.8	20M 30M
20 10 150k Final Mo Frequency (MHz) 0.186000 0.280500 0.856500	QuasiPeak (dBµ V) 42.1 34.7 33.6	Meas. Time (ms) 1000.00 1000.00 1000.00	Fetector Bandwidth (kHz) 0 9.00 0 9.00 0 9.00	Tequency 1 Filte 0 On 0 On	r Line	e Corr. (dB) 9.5	6 8 1 Margin (dB) 5 22.1	Limit (dBµ V) 1 64.2 1 60.8	20M 30M
20 10 150k Final Me Frequency (MHz) 0.186000 0.280500 0.856500 Final Me	QuasiPeak (dBµ V) 42.1 34.7 33.6 easurem	Meas. Time (ms) 1000.00 1000.00 1000.00 1000.00 ment De	F etector Bandwidth (kHz) 0 9.00 0 9.00 0 9.00 0 9.00 etector 2	Tequency 1 0 On 0 On 0 On 0 On	r Line	e Corr. (dB) 9.5 9.5 9.6	6 8 1 Margin (dB) 5 22.4	Limit (dBµ V) 1 64.2 1 60.8 4 56.0	20M 30M
20 10 150k Final Me Frequency (MHz) 0.186000 0.280500 0.856500 Final Me Frequency	easurer QuasiPeak (dBµ V) 42.1 34.7 33.6 easurem Average	Meas. Time (ms) 1000.00 1000.00 1000.00 1000.00 Meas.	F etector Bandwidth (kHz) 0 9.00 0 9.00 0 9.00 0 9.00 etector 2 Bandwidth	Tequency 1 Filte 0 On 0 On	r Line	e Corr. (dB) 9.5 9.6 Corr.	6 8 1 6 8 1 . Margin (dB) 5 22.4 5 26.5 5 22.4 Margin	Limit (dBµ V) 64.2 60.8 4 56.0	20M 30M
20 10 150k Final Me Frequency (MHz) 0.186000 0.280500 0.856500 Final Me	QuasiPeak (dBµ V) 42.1 34.7 33.6 easurem	ment D Meas. Time (ms) 1000.00 1000.00 1000.00 Meas. Time	F etector Bandwidth (kHz) 0 9.00 0 9.00 0 9.00 0 9.00 etector 2	Tequency 1 0 On 0 On 0 On 0 On	r Line	e Corr. (dB) 9.5 9.5 9.6	6 8 1 Margin (dB) 5 22.4	Limit (dBµ V) 64.2 60.8 4 56.0	20M 30M
20 10 150k Final Me Frequency (MHz) 0.186000 0.280500 0.856500 Final Me Frequency	easurer QuasiPeak (dBµ V) 42.1 34.7 33.6 easurem Average	Meas. Time (ms) 1000.00 1000.00 1000.00 1000.00 Meas.	F etector Bandwidth (kHz) 0 9.00 0 9.00 0 9.00 0 9.00 etector 2 Bandwidth	Tequency 1 0 On 0 On 0 On 0 On	r Line	e Corr. (dB) 9.5 9.6 Corr.	6 8 1 6 8 1 . Margin (dB) 5 22.4 5 26.5 5 22.4 Margin	Limit (dBµ V) 64.2 60.8 4 56.0	20M 30M
20 10 150k Final Me Frequency (MHz) 0.186000 0.280500 0.856500 Final Me Frequency (MHz)	easuren QuasiPeak (dBµ V) 42.1 34.7 33.6 easurem Average (dBµ V)	Meas. Time (ms) 1000.00 1000.00 1000.00 1000.00 Meas. Time (ms)	F etector 0 9.00 0 9.00 0 9.00 0 9.00 0 9.00 etector 2 Bandwidth (kHz)	Tequency 1 0 On 0 On 0 On 0 On 0 On	r Line	Corr. (dB) 9.5 9.6 Corr. (dB)	6 8 1 6 8 1 (dB) 5 22.4 5 26.5 5 22.4 Margin (dB)	Limit (dBµ V) 1 64.2 1 60.8 4 56.0	20M 30M

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Frequency (MHz)	Average (dBµ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµ V)	Comment
0.474000	28.3	1000.00	9.000	On	N	9.4	18.1	46.4	
0.856500	30.1	1000.00	9.000	On	N	9.6	15.9	46.0	
4.915500	25.1	1000.00	9.000	On	N	9.4	20.9	46.0	

Emission Level = Read Level + Correct Factor

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3.2. Radiated Emission

<u>Limit</u>

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

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/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
960~1000	500	3

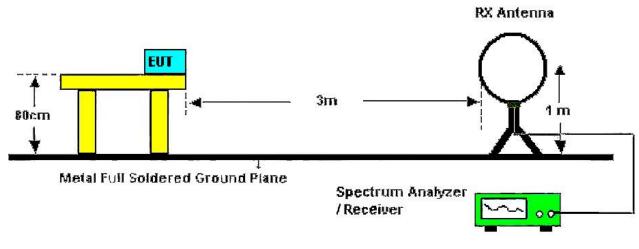
	dBµV/m (at 3 meters)				
Frequency Range (MHz)	Peak	Average			
Above 1000	74	54			

Note:

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

(2) Emission Level ($dB\mu V/m$)=20log Emission Level ($\mu V/m$).

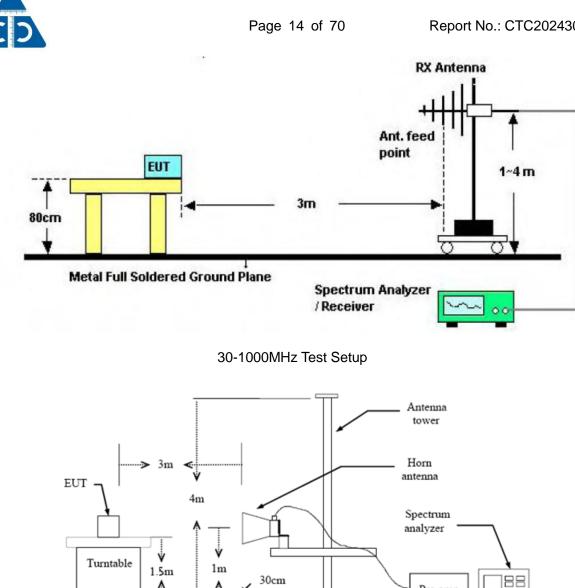
Test Configuration

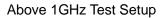


Below 30MHz Test Setup

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Pre-amp

Test Procedure

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

The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for 2. 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.

For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna 4. 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.

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

Use the following spectrum analyzer settings 6.

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

(2) 9k – 150kHz:

RBW=300 Hz, VBW=1 kHz, Sweep=auto, Detector function=peak, Trace=max hold (3) 0.15M – 30MHz:

RBW=10 kHz, VBW=30 kHz, Sweep=auto, Detector function=peak, Trace=max hold (4) 30M - 1 GHz:

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

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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.

(5) From 1 GHz to 10th harmonic:

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 Result

9 kHz~30 MHz

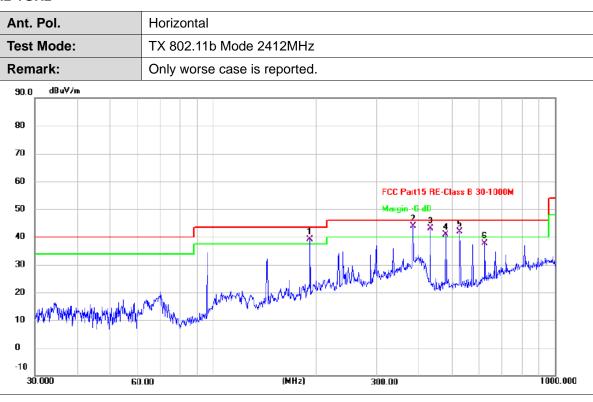
From 9 kHz to 30 MHz: The conclusion is PASS.

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

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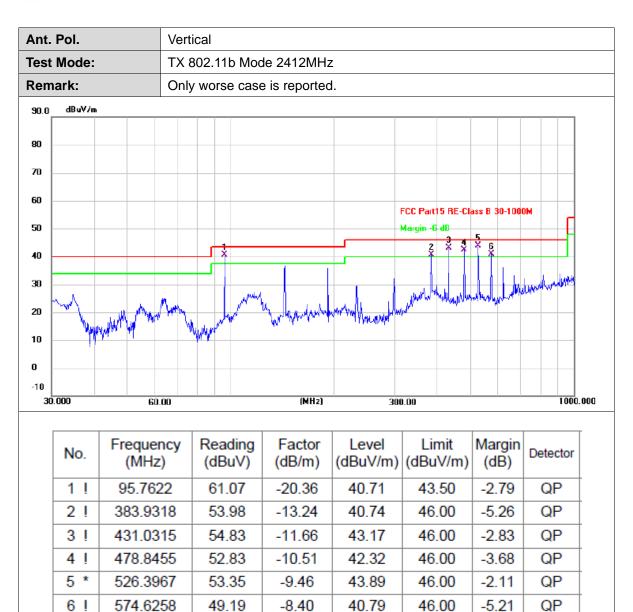


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1!	191.7450	58.00	-18.83	39.17	43.50	-4.33	QP
2 *	383.9318	57.12	-13.24	43.88	46.00	-2.12	QP
3 !	431.0314	54.83	-11.66	43.17	46.00	-2.83	QP
4!	478.8455	51.48	-10.51	40.97	46.00	-5.03	QP
5 !	526.3967	51.28	-9.46	41.82	46.00	-4.18	QP
6	622.8900	44.93	-7.32	37.61	46.00	-8.39	QP

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

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

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Ant. Pol.		Horizontal						
Test Mod	e:	TX 802.11b Mode 2412MHz						
Remark:	mark: No report for the emission which more than 20 dB below the prescribed limit.					bed		
							1	-

No.	Frequency (MHz)	Reading (dBuV)		Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	4823.940	50.78	1.87	52.65	74.00	-21.35	peak	
2 *	4823.997	48.50	1.87	50.37	54.00	-3.63	AVG	

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	TX 802.11b Mode 2412MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4823.913	47.38	1.87	49.25	54.00	-4.75	AVG
2	4823.937	49.24	1.87	51.11	74.00	-22.89	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant.	Pol.		Horizontal						
Test	Mode:		TX 802.11b M	ode 2437MI	Hz				
Rem	ark:		No report for t limit.	he emission	which more	than 20 dB	below th	e prescrib	ed
	No.	Frequenc (MHz)	y Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	No.		(dBuV)					Detector peak	

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. Pol	I.		Vertical					
Test Mo	de:		TX 802.11b M	lode 2437M	Hz			
Remark	:		No report for t limit.	he emissior	n which more	e than 20 dB	below th	e prescri
			D r					
N	lo.	Frequenc (MHz)	y Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	lo.		(dBuV)					Detector

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant.	Pol.		Horizontal						
Test	Mode:		TX 802.11b Mode 2462MHz						
Rem	Remark:		No report for the limit.	he emission	which more	e than 20 dB	below th	e prescrib	bed
	No.	Frequenc (MHz)	y Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	L				50.05	74.00	04.45		t i i i i i i i i i i i i i i i i i i i
	1	4923.935	50.81	2.04	52.85	74.00	-21.15	peak	

2.04

50.79

54.00

-3.21

AVG

Remarks:

2 *

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

48.75

2.Margin value = Level -Limit value

4923.949

Ant.	Pol.		Vertical					
Test	Mode:		TX 802.11b M	ode 2462M	Hz			
Rem	ark:		No report for t limit.	he emissior	which more	than 20 dB	below th	e prescribe
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	No.							Detector

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant. Pol.	Horizontal
Test Mode:	TX 802.11g Mode 2412MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4824.157	47.18	1.87	49.05	74.00	-24.95	peak
2 *	4824.389	36.12	1.87	37.99	54.00	-16.01	AVG

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

Ant. Pol.	Vertical
Test Mode:	TX 802.11g Mode 2412MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4823.947	34.03	1.87	35.90	54.00	-18.10	AVG
2	4824.145	45.80	1.87	47.67	74.00	-26.33	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant.	Pol.		Horizontal						
Test	Mode:		TX 802.11g M	ode 2437M	Hz				
Rem	ark:		No report for t limit.	he emission	n which more	e than 20 dB	below th	ie prescrib	bed
	No.	Frequency (MHz)	(dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	No.							Detector peak	

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant.	Pol.		Vertical					
Test	Mode:		TX 802.11g M	ode 2437M	Hz			
Rem	ark:		No report for t limit.	he emissior	n which more	e than 20 dB	below th	ne prescri
	No.	Frequency (MHz)	(dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	No.		(dBuV)					Detector peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant.	Pol.	ŀ	Horizontal						
Test	Test Mode:		TX 802.11g Mode 2462MHz						
Rem	ark:		No report for tl imit.	he emission	which more	than 20 dB	below th	e prescrib	bed
		_		_					
	No.	Frequency	Reading	Factor (dB/m)	Level (dBuV/m)	Limit	Margin	Detector	

2.04

2.04

48.89

37.52

74.00

54.00

-25.11

-16.48

peak

AVG

Remarks:

1

2 *

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

46.85

35.48

2.Margin value = Level -Limit value

4923.780

4924.319

Ant. I	Pol.		Vertical					
Test	Mode:		TX 802.11	g Mode 2462M	Hz			
Rema	ark:		No report f limit.	or the emissior	n which more	than 20 dB	below th	e prescrib
	No.	Frequence (MHz)	y Readii (dBu\	· ·	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	No.		(dBu\	/) (dB/m)				Detector AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT20) Mode 2412MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4823.779	45.26	1.87	47.13	74.00	-26.87	peak
2 *	4823.960	34.54	1.87	36.41	54.00	-17.59	AVG

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

Ant. Pol.	Vertical
Test Mode:	TX 802.11n(HT20) Mode 2412MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4823.897	44.08	1.87	45.95	74.00	-28.05	peak
2 *	4824.241	32.36	1.87	34.23	54.00	-19.77	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant. Pol.	Н	orizontal					
Test Mode:	T	X 802.11n(H1	[20) Mode 2	2437MHz			
Remark:		o report for th nit.	ne emission	which more	than 20 dB	3 below th	e prescribed
No	Frequency	Reading	Factor	Level	Limit	Margin	Detector

No.	(MHz)	(dBuV)		(dBuV/m)		(dB)	Detector
1	4873.826	45.57	1.95	47.52	74.00	-26.48	peak
2 *	4874.432	34.40	1.95	36.35	54.00	-17.65	AVG

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. I	Pol.		Vertical					
Test I	Mode:		TX 802.11n(H	T20) Mode	2437MHz			
Rema	Remark: No report for the emission which more than 20 dB below the prescrib limit.							
г				1				
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	No.							Detector peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant.	Pol.		Horizontal						
Test	Mode:		TX 802.11n(HT20) Mode 2462MHz						
Rem	No report for the emission which more than 20 dB below the prescriber					ed			
	No.	Frequency (MHz)	(dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	INO. (MHz) (dBuV)								
	1 *	4923.864	33.93	2.04	35.97	54.00	-18.03	AVG	

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant.	Pol.		Vertical					
Test	Est Mode: TX 802.11n(HT20) Mode 2462MHz							
Rem	Remark: No report for the emission which more than 20 dB below the prescribe limit.							
				-		-		
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	No.		-				-	Detector AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT40) Mode 2422MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1	4843.764	43.40	1.90	45.30	74.00	-28.70	peak
2 *	4843.930	32.21	1.90	34.11	54.00	-19.89	AVG

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

Ant. Pol.	Vertical
Test Mode:	TX 802.11n(HT40) Mode 2422MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	4843.672	30.41	1.90	32.31	54.00	-21.69	AVG
2	4844.300	41.06	1.90	42.96	74.00	-31.04	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant.	Pol. Horizontal								
Test	est Mode:		TX 802.11n(HT40) Mode 2437MHz						
Rem	Remark:		rk: No report for the emission which more than 20 dB below the prescribe						bed
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	No.							Detector peak	

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant.	Pol.		Vertical						
Test	Mode:		TX 802.11n(HT40) Mode 2437MHz						
Rem	ark:		No report for t limit.	he emissior	n which more	e than 20 dB	below th	ie prescri	
	No.	Frequenc (MHz)	y Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	No.		(dBuV)	1				Detector AVG	

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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Ant.	Pol.	ol. Horizontal							
Test	Mode:		TX 802.11n(HT40) Mode 2452MHz						
Rem	ark:		No report for the emission which more than 20 dB below the prescribed limit.						ed
		Frequency	Reading	Factor	Level	Limit	Margin		
	No.	Frequency (MHz)	/ Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	No.		(dBuV)					Detector AVG	

2.00

45.22

74.00

-28.78

peak

Remarks:

2

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

43.22

2.Margin value = Level -Limit value

4904.204

Ant.	Pol.		Vertical						
Test	Mode:		TX 802.11n(HT40) Mode 2452MHz						
Rem	Remark:		No report for the emission which more than 20 dB below the prescrit limit.						
	No.	Frequenc (MHz)	y Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	No.		(dBuV)				-	Detector AVG	

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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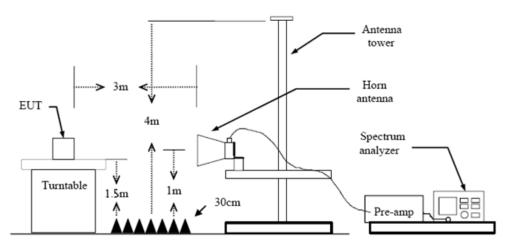
3.3. Band Edge Emissions (Radiated)

<u>Limit</u>

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

Restricted Frequency Band	(dBµV/m	ı) (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.

2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 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.
5. The receiver set as follow:

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.

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t. Pol.		Ho	orizontal					
st Mode	:	ТХ	. 802.11b Mo	ode 2412M	Ηz			
20.0 dBu¥	/m							1
10								
00								
o							m	
o						500 Dea18	d h	
n 📃						FLL Paitin	C - Above 1	
o							C - Above 1	
0						$\frac{1}{X} \frac{1}{X}$	C - ADOVE T	
o						3 mg		1
D	and and a second and a second s		waana ahaadaa daalaa	hanga ta sa katang sa shi ka s	hadroning til standardardardardardardardardardardardardard			
D								
o								
	2300.25 2315	.25	2330.25 234	15.25 (MHz)	2375.25	2390.25 24	05.25 24	20.25 243
D	2300.25 2315. Frequen (MHz)	су	2330.25 234 Reading (dBuV)	Factor (dB/m)	Level	2390.25 24	Margin	
0.0	Frequen	су	Reading	Factor	Level	Limit	Margin	
0 2285.250 No.	Frequen (MHz) 2385.30	су)0	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
0 2285.250 No.	Frequen (MHz) 2385.30	cy)0)0	Reading (dBuV) 20.37	Factor (dB/m) 31.31	Level (dBuV/m) 51.68	Limit (dBuV/m) 74.00	Margin (dB) -22.32	Detector peak

2.Margin value = Level -Limit value

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No. Frequency Reading Factor Level (dBuV) (dBuV/m) (dBuV/m)	FCC Part15 C - Above 16 AV
110	FCC Part 5 C - Above 16 AV
00 00<	FCC Part 5 C - Above 16 AV
0	FCC Part 5 C - Above 16 AV
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No. Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m)	FCC Part 5 C - Above 16 AV
No. Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m)	FCC Part 5 C - Above 16 AV
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No. Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m)	
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2284.500 2239.50 2314.50 2329.50 2344.50 (NHz) 2374.50 23 No. Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) (c	
NO. (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m)	389.50 2404.50 2419.50 24
NO. (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m)	
	Limit Margin dBuV/m) (dB) Detector
1 2385.300 17.04 31.31 48.35	74.00 -25.65 peak
2 * 2385.300 6.81 31.31 38.12	54.00 -15.88 AVG
3 2390.000 15.71 31.31 47.02	74.00 -26.98 peak
4 2390.000 4.04 31.31 35.35	54.00 -18.65 AVG
	· · ·

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

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		пс	orizontal					
st Mode:		ТХ	(802.11b M	ode 2462MH	Ηz			
20.0 dBuV/n								1
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	m							
	1	N						
	/					FCC Part15	C - Above 16	i PK
	↓	-V	1 3			FCC Part15	C - Above 16	i AV
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)								
ı ı	452.25 246	7.25	2482.25 24	97.25 (MHz)	2527.25	2542.25 25	57.25 25	72.25 25
0 0.0 2437.250 2	Freque	ncy	Reading	Factor	Level	Limit	Margin	
.0	1	ncy			Level			72.25 25 Detector
.02437.250 _ 2	Freque	ncy :)	Reading	Factor	Level	Limit	Margin	
2437.250 2 No.	Frequer (MHz	ncy :) 00	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
2437.250 2 No.	Frequer (MHz 2483.5	ncy :) 00 00	Reading (dBuV) 16.97	Factor (dB/m) 31.50	Level (dBuV/m) 48.47	Limit (dBuV/m) 74.00	Margin (dB) -25.53	Detector

2.Margin value = Level -Limit value

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		Ver	tical					
est Mode:		ТХ	802.11b M	ode 2462MH	Ηz			
120.0 dBuV/m								
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80	7 h					FCC Part1	i C - Above 1	G PK
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30				a considerant considerant.				
20								
10								
0.0								
2438.000 24	453.00 2468	3.00	2483.00 24	98.00 (MHz)	2528.00	2543.00 25	58.00 25	73.00 2588.
	Frequer		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
No.	(MHz)	/	(/					
No.	(MHZ) 2483.5(17.54	31.50	49.04	74.00	-24.96	peak
		00			49.04 36.92	74.00 54.00	-24.96 -17.08	peak AVG

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	Ho	rizontal					
):	TX	802.11g Mo	ode 2412M⊦	·Ιz			
⊄/m					1	1	1
					FCC Part15	C - Above 16	PK
					FCC Part15	C - Above 16	AV
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Freque (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	z)						Detector peak
	V/m		V/n	V/n Image: Ima	V/n Image: Im	V/m Image: Im	V/m Image: Im

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V	ertical					
Т	X 802.11g M	ode 2412MH	Ηz			
					1	
				FCC Part15	C'- Above 16	PK
					C - Above 16	AV
				×		
	and and sector and a sector of the sector of	have been and		- Summer		Amerik
298.75 2313.75	2328.75 234	13.75 (MHz)	2373.75	2388.75 240	03.75 241	8.75 243
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)			Detector
2390.000	17.28	31.31	48.59	74.00	-25.41	peak
	5.92	31.31	37.23	54.00	-16.77	AVG
	298.75 2313.75	298.75 2313.75 2328.75 234	298.75 2313.75 2328.75 2343.75 (MHz)	238.75 2313.75 2328.75 2343.75 (MHz) 2373.75 Frequency Reading Factor Level	FCC Part15	FCC Parts C - Above 16 FCC Parts C - Above 16

2.Margin value = Level -Limit value

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		Hc	orizontal					
est Mode:		ТХ	(802.11g M	ode 2462MI	Ηz			
120.0 dBuV/i	n					1		i
110								
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		+				FCC Part15	C - Above 16	i PK
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	J	+	1 X			FCC Part15	C - Above 16	i AV
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D.0								
2101.200	2452.25 246	1.23	2482.25 24	97.25 (MHz)	2527.25	2542.25 25	57.25 25	72.25 25
	(432.23 246	1.23	2402.2J 24	37.23 (MN2)	2527.25	2042.20 20	Jr.2J 2J	(2.23 23
No.	Frequer (MHz)	су	Reading (dBuV)	Factor (dB/m)	Level	Limit (dBuV/m)	Margin (dB)	Detector
	Frequer	icy	Reading	Factor	Level	Limit	Margin	

2.Margin value = Level -Limit value

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3802.11g Mod	de 2462MH	Hz		C - Above 16	
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	under and an and a second second	an a	and water and a second s		*****
2483.00 2498	3.00 (MHz)	2528.00	2543.00 255	58.00 257	73.00 25
Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
17.67	31.50	49.17	74.00	-24.83	peak
5.44	31.50	36.94	54.00	-17.06	AVG
	(dBuV) 17.67	Reading (dBuV) Factor (dB/m) 17.67 31.50	Reading (dBuV)Factor (dB/m)Level (dBuV/m)17.6731.5049.17	Reading (dBuV)Factor (dB/m)Level (dBuV/m)Limit (dBuV/m)17.6731.5049.1774.00	Reading (dBuV)Factor (dB/m)Level (dBuV/m)Limit (dBuV/m)Margin (dB)17.6731.5049.1774.00-24.83

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		Но	orizontal					
est Mode	:	ТХ	802.11n(l	HT20) Mode	2412MHz			
120.0 dBuV	/m							
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0.0 2283.000	2298.00 231	3.00	2328.00 2	2343.00 (MHz)	2373.00	2388.00 24	03.00 24	418.00 24
No.	Frequer (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
No.		z)						Detector peak

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

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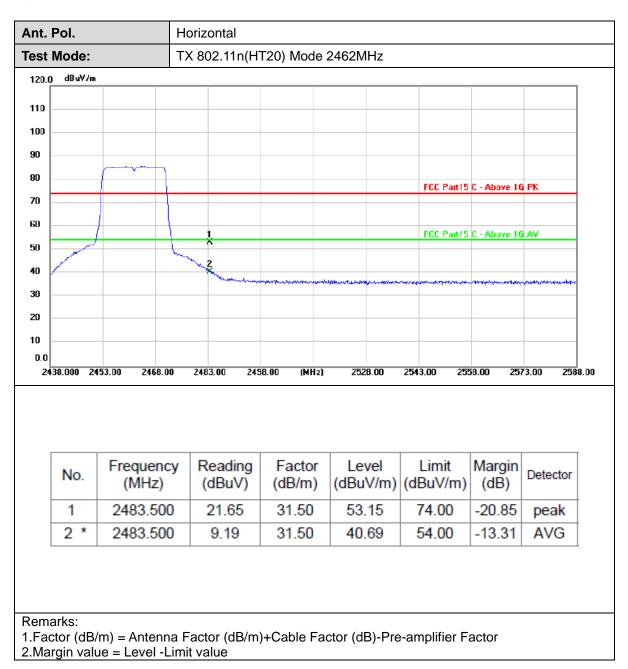


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est M	ode:		T	X 802.11n(H	IT20) Mode 2	2412MHz			
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100 -									
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0.0		98.75 2	2313.75	2328.75 2	343.75 (MHz)	2373.75	2388.75 24		18.75 24
	No	Frequ		Reading		Level	Limit	Margin	Detector
	No.	(MI	Hz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	Detector
	No. 1 2 *		Hz) .000						Detector peak AVG

2.Margin value = Level -Limit value

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		Ve	ertical								
est Mode:		ТХ	(802.11	∣n(H1	20) Moc	le 246	2MHz				
120.0 dBuV/m											
110											
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0.0 2440.250 24	155.25 247	70.25	2485.25	250		1z)	2530.25	2545.2		60.25 25	575.25 25
No.	Freque (MH:		Read (dBu		Facto (dB/m		Level BuV/m)		mit IV/m)	Margin (dB)	Detector
No.		z)		V)) (d		(dBu			Detector peak

2.Margin value = Level -Limit value

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		Ho	orizontal					
Fest Mode	:	ТХ	(802.11n(H	Γ40) Mode 2	2422MHz			
120.0 dBuV	/m					i		
110								
100								
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80							h/	
70						FCC Part15	C ^I Above 1	6 PK
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50					2	FCC Part15	C - Above 1	
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40 unicological	na mandana ana madada	ntranser						
20								
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2299.000	2314.00 232	9.00	2344.00 235	i9.00 (MHz)	2389.00	2404.00 24	19.00 24	34.00 24
No.	Frequer (MHz	z)	Reading (dBuV)	Factor (dB/m)		Limit (dBuV/m)		Detector
1	2390.0	00	29.68	31.31	60.99	74.00	-13.01	peak
	2390.0	00	19.18	31.31	50.49	54.00	-3.51	AVG

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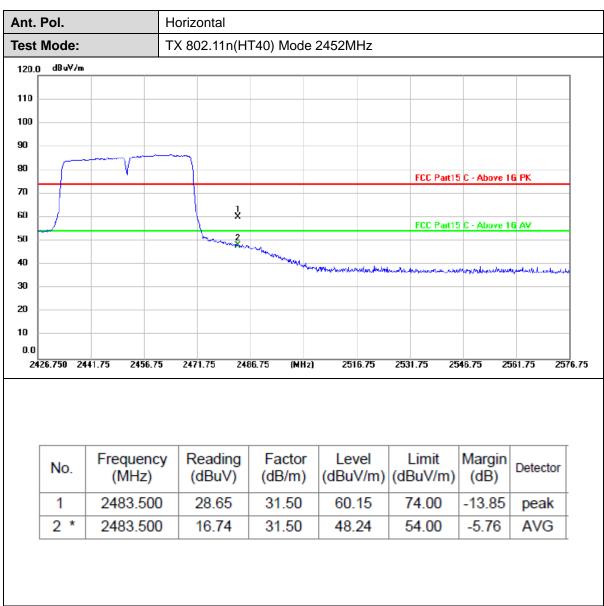


	Ve	ertical					
est Mode:	T	X 802.11n(H	Γ40) Mode 2	2422MHz			
120.0 dBuV/m							
110							
100							
90							
80					FGC Part15	C-Above 16	PR
70						· ·	
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20							
10							
0.0 2300.500 2	315.50 2330.50	2345.50 236	50.50 (MHz)	2390.50	2405.50 242	20.50 243	5.50 245
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)		Limit (dBuV/m)		Detector
4	2390.000	22.07	31.31	53.38	74.00	-20.62	peak
1	2390.000	12.67	31.31	43.98	54.00	-10.02	AVG

2.Margin value = Level -Limit value

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Remarks:

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

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		Ver	tical					
est Mode:		TX	802.11n(H	T40) Mode 2	2452MHz			
120.0 dBu¥/n								
110								
100								
90								
80								
			}			FCC Part15	C - Above 16	i PK
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20								
0.0								
2428.250 2	443.25 2458	8.25 2	2473.25 24	88.25 (MHz)	2518.25	2533.25 254	48.25 250	63.25 25
No.	Frequer (MHz)		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
No.)						Detector peak

2.Margin value = Level -Limit value

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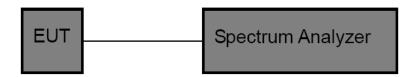
3.4. Band Edge and Spurious Emissions (Conducted)

<u>Limit</u>

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

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

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.
- 4. Measure and record the results in the test report.

Test Mode

Please refer to the clause 2.4.

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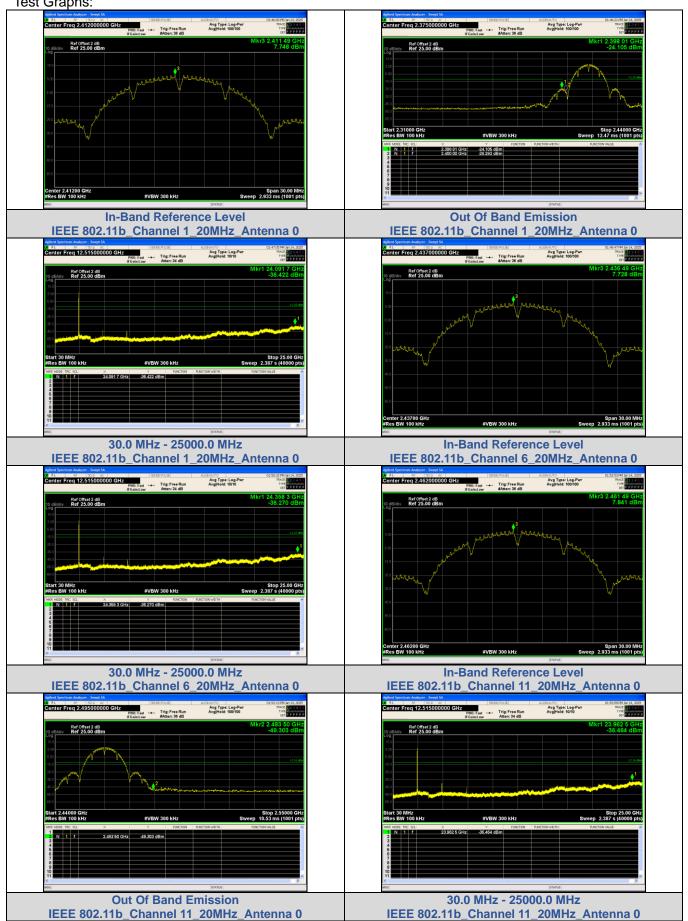
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
		2398.01	-24.105	-12.25	-11.855	PASS
	1	2400.00	-28.293	-12.25	-16.043	PASS
IEEE 802.11b		24091.7	-36.422	-12.25	-24.172	PASS
	6	24358.3	-36.270	-12.27	-24.000	PASS
	11	2483.50	-49.303	-12.16	-37.143	PASS
	11	23962.5	-36.464	-12.16	-24.304	PASS
		2398.66	-23.418	-14.83	-8.588	PASS
	1	2400.00	-24.145	-14.83	-9.315	PASS
		24652.3	-36.654	-14.83	-21.824	PASS
IEEE 802.11g	6	24684.7	-36.932	-14.88	-22.052	PASS
	44	2483.50	-36.468	-14.70	-21.768	PASS
	11	24416.9	-36.587	-14.70	-21.887	PASS
		2398.66	-27.340	-14.94	-12.400	PASS
	1	2400.00	-29.723	-14.94	-14.783	PASS
IEEE		24622.9	-36.899	-14.94	-21.959	PASS
802.11n_20	6	24159.7	-36.868	-15.35	-21.518	PASS
	44	2483.50	-34.420	-14.78	-19.640	PASS
	11	24162.9	-36.324	-14.78	-21.544	PASS
		2396.97	-24.866	-17.08	-7.786	PASS
	3	2400.00	-26.775	-17.08	-9.695	PASS
IEEE		24112.9	-36.459	-17.08	-19.379	PASS
802.11n_40	6	24202.8	-36.407	-17.16	-19.247	PASS
	0	2483.50	-30.826	-17.12	-13.706	PASS
	9	24111.7	-36.591	-17.12	-19.471	PASS

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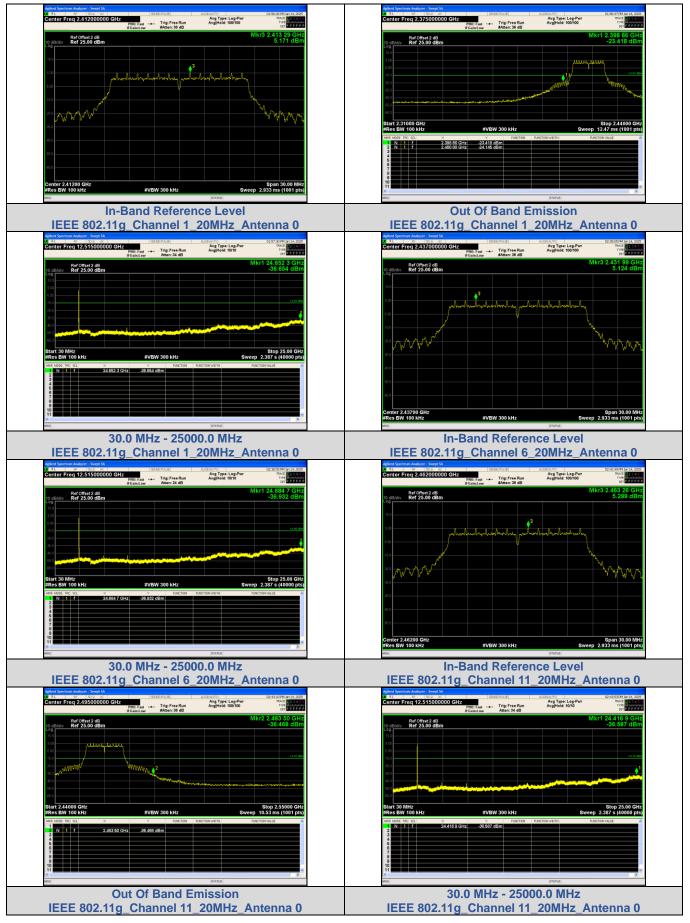
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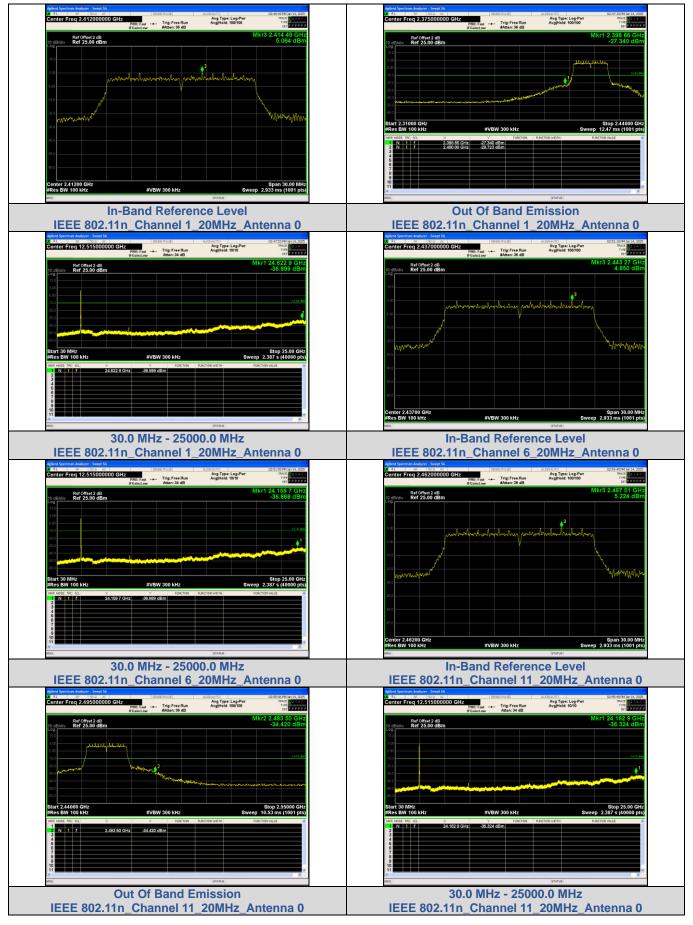
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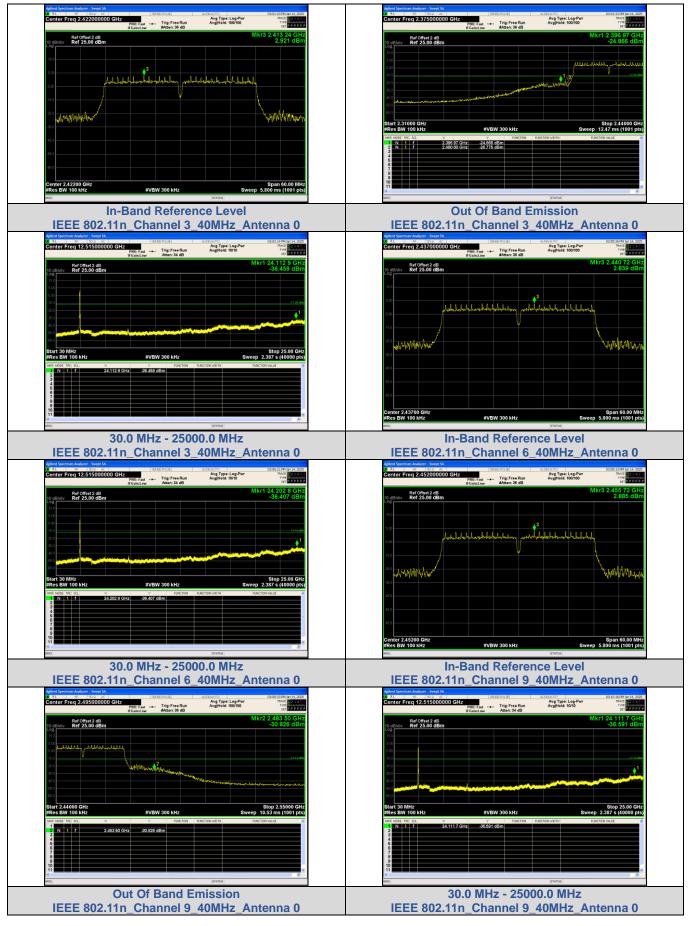
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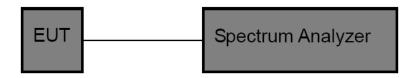
3.5. DTS Bandwidth

<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2) / RSS-247 5.2 a

Test Item	Limit	Frequency Range (MHz)
DTS Bandwidth	≥500 kHz (6dB bandwidth)	2400~2483.5

Test Configuration



Test Procedure

- 1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- 2. DTS Spectrum Setting:
 - (1) Set RBW = 100 kHz.
 - (2) Set the video bandwidth (VBW) \geq 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.
 - OCB Spectrum Setting:
 - (1) Set RBW = $1\% \sim 5\%$ occupied bandwidth.
 - (2) Set the video bandwidth (VBW) \geq 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

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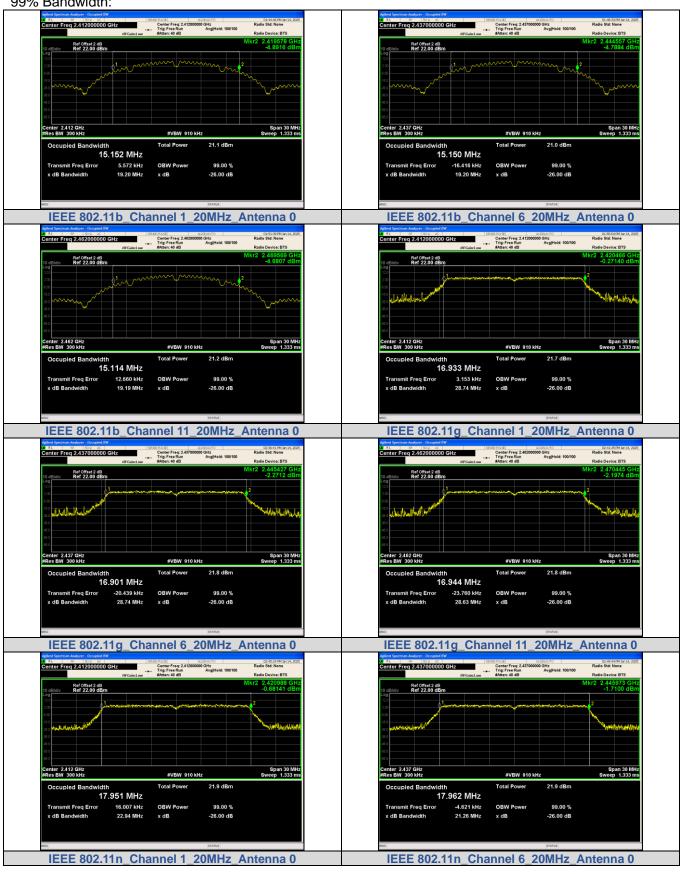


Test Result

Test Mode	Channel Frequency[MHz]	OCB [MHz]	DTS BW [MHz]	Limit[MHz]	Verdict
	2412	15.152	10.05		
11B	2437	15.150	10.06		
	2462	15.114	10.05		
	2412	16.933	16.33		
11G	2437	16.901	16.35		
	2462	16.944	16.34	>0.5	PASS
	2412	17.951	17.60	≥0.5	FA33
11N20SISO	2437	17.962	17.59		
	2462	17.945	17.59		
	2422	36.472	36.31		
11N40SISO	2437	36.520	36.32		
	2452	36.501	36.32		

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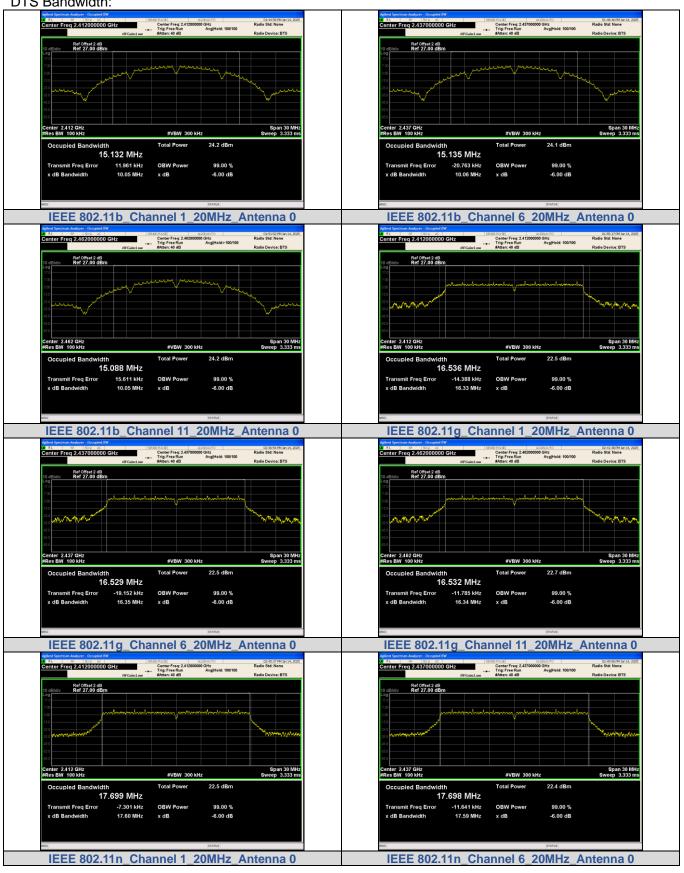
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Center Freq 2.462000000 GHz	:FreeRun Avg[Hold: 100/100 en:40 dB	Radio Device: BTS	Center Freq 2.422000000 GHz	Trig: Free Run Avg Hold: 100/100 #Atten: 40 dB	Radio Device: BTS
Ref Offset 2 dB 10 dB/div Ref 22.00 dBm		Mkr2 2.471 GHz -0.089442 dBm	Ref Offset 2 dB	1	Mkr2 2.440234 GHz 0.22989 dBm
10 dB/div Ref 22.00 dBm		-0.003442 dBm	10 dB/div Ref 22.00 dBm		0.22303 0011
200 June martine		2	200	an and a second and a second	→ ²
£00			4.00		
so mentioned		And and the state of the state	00 and the second second		and have been a second and a second
38.0			-38.0		
81.0			48.0		
68.0			68.0		
Center 2.462 GHz #Res BW 300 kHz	#VBW 910 kHz	Span 30 MHz Sweep 1.333 ms	Center 2.422 GHz #Res BW 510 kHz	#VBW 1.6 MHz	Span 60 MHz Sweep 1.333 ms
Occupied Bandwidth To	tal Power 22.0 dBm		Occupied Bandwidth	Total Power 22.6 dBm	· · ·
17.945 MHz			36.472 MHz		
Transmit Freq Error 29.033 kHz OE	W Power 99.00 %		Transmit Freq Error 3.746 kHz	OBW Power 99.00 %	
x dB Bandwidth 24.08 MHz x d	IB -26.00 dB		x dB Bandwidth 53.29 MHz	x dB -26.00 dB	
50	STATUS		MSG	STATUS	
IEEE 802.11n_Channel	el 11_20MHz_A	ntenna 0	IEEE 802.11n_Cha	nnel 3_40MHz_A	ntenna 0
glient Spectrum Analyzer - Occupied BW	E ALIGNAUTO	03:03:41 PM Jan 14, 2025	Aplent Spectrum Analyzer - Occupied BW	SEPULE ALISIAUTO	03:07:15 PM Jan 14, 2025
Trig	ter Freq: 2.437000000 GHz : Free Run Avg Hold: 100/100	Radio Std: None	Center Freq 2.452000000 GHz	Center Freq: 2.452000000 GHz Trig: Free Run Avg Hold: 100/100	Radio Std: None
10 00m(01	en:40 dB	Radio Device: BTS kr2 2.455264 GHZ	##Gain:Low	#Atten: 40 dB	Radio Device: BTS
Ref Offset 2 dB 0 dB/div Ref 22.00 dBm		1.7857 dBm	10 dB/div Ref 22.00 dBm		0.86853 dBm
		2	120	مريدهم ومعاليه ومعاليه ومعاليه ومعالية والمعالية و	2
200	V		8:00	V III	
180 and a start a start and a		Alabarah Salatan	100 and and a state of the second state of the		Manural millestore
38.0			-38.0		
41.0			410		
68.0			68.0		
Center 2.437 GHz		Span 60 MHz	Center 2.452 GHz		Span 60 MHz
Res BW 510 kHz	#VBW 1.6 MHz	Sweep 1.333 ms	#Res BW 510 kHz	#VBW 1.6 MHz	Sweep 1.333 ms
Occupied Bandwidth To 36.520 MHz	tal Power 22.6 dBm		Occupied Bandwidth 36.501 MHz	Total Power 22.7 dBm	
	W Power 99.00 %		Transmit Freg Error 10.848 kHz	OBW Power 99.00 %	
x dB Bandwidth 55.30 MHz x d			x dB Bandwidth 56.58 MHz	x dB -26.00 dB	
	STATUS		MSG	STATUS	

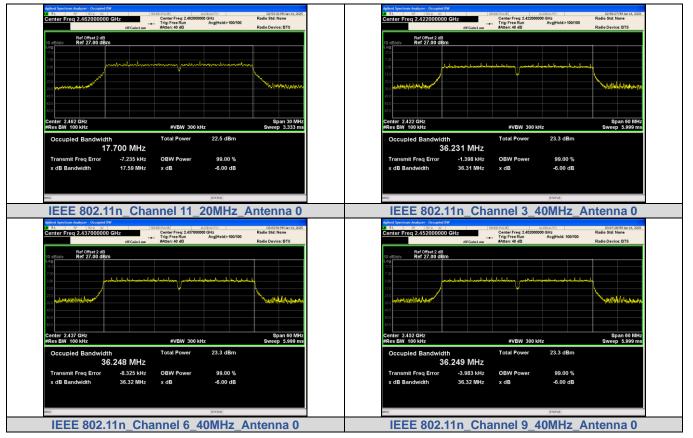
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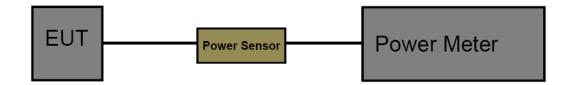
3.6. Peak Output Power

<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3) / RSS-247 5.4 d

Section	Test Item	Limit	Frequency Range (MHz)
FCC CFR 47 Part15.247 (b)(3)	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5
ISED RSS-247 5.4 d	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5
	EIRP	4 Watt or 36dBm	2400~2483.5

Test Configuration



Test Procedure

- 1. The maximum conducted output power may be measured using a broadband RF power meter.
- 2. Power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor.
- 3. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.
- 4. Record the measurement data.

Test Mode

Please refer to the clause 2.4.



Test Result

Test Mode	Frequency [MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
	2412	20.02	≤30.00	PASS
11B	2437	19.94	≤30.00	PASS
	2462	20.07	≤30.00	PASS
	2412	23.32	≤30.00	PASS
11G	2437	23.46	≤30.00	PASS
	2462	23.57	≤30.00	PASS
	2412	23.64	≤30.00	PASS
11N20SISO	2437	23.67	≤30.00	PASS
	2462	23.84	≤30.00	PASS
11N40SISO	2422	24.14	≤30.00	PASS
	2437	24.18	≤30.00	PASS
	2452	24.20	≤30.00	PASS

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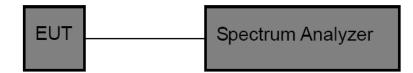
3.7. Power Spectral Density

<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e) / RSS-247 5.2 b

Test	Item	Limit	Frequency Range (MHz)
Power Spec	tral Density	8 dBm (in any 3 kHz)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.

2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.

3. Spectrum Setting:

Set analyzer center frequency to DTS channel center frequency.

Set span to at least 1.5 times the OBW.

Set RBW to: $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$.

Set VBW \geq [3 × RBW].

Detector = power averaging (rms) or sample detector (when rms not available).

Ensure that the number of measurement points in the sweep \geq [2 × span / RBW].

Sweep time = auto couple.

Employ trace averaging (rms) mode over a minimum of 100 traces.

Use the peak marker function to determine the maximum amplitude level.

If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

Test Mode

Please refer to the clause 2.4.

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Test Result

Test Mode	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
	2412	-8.826	≤8.00	PASS
11B	2437	-8.267	≤8.00	PASS
	2462	-8.757	≤8.00	PASS
	2412	-11.802	≤8.00	PASS
11G	2437	-11.391	≤8.00	PASS
	2462	-10.810	≤8.00	PASS
11N20SISO	2412	-11.088	≤8.00	PASS
	2437	-11.314	≤8.00	PASS
	2462	-10.530	≤8.00	PASS
11N40SISO	2422	-12.952	≤8.00	PASS
	2437	-12.400	≤8.00	PASS
	2452	-13.354	≤8.00	PASS

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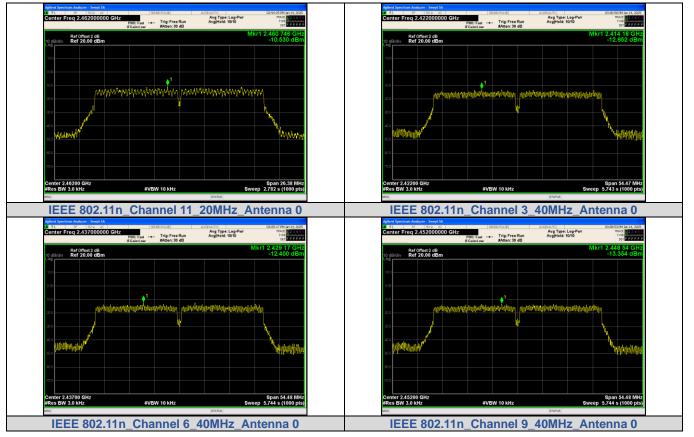


enter Freg 2.412000000 GHz Avg Type: Log-Pwr Avg[Hold: 10/10 er Freg 2.437000000 GHz Avg Type: Log-Pw Avg[Hold: 10/10 Fast --- Trig: Free Ru ---- Trig: Free R Ref Offset 2 dB Ref 20.00 dBm Ref Offset 2 dB Ref 20.00 dBn Span 15.08 M Span 15.09 F Sweep 1.591 s (1000 ter 2.412000 ter 2.43700 #VBW 10 kHz #VBW 10 kH: IEEE 802.11b_Channel 1_20MHz_Antenna 0 IEEE 802.11b_Channel 6_20MHz_Antenna 0 nter Freq 2.462000000 GHz Trig: Free Rur Avg Type: Log-Pwr Avg[Hold: 10/10 nter Freq 2.412000000 GHz NO: Fast ---- Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr Avg|Held: 10/10 Ref Offset 2 dB Ref 20.00 dBn Ref Offset 2 dB Ref 20.00 dBn www.www.www.www.ww Span 15.08 Mi 1.590 s (1000 pt nter 2.462000 GHz es BW 3.0 kHz nter 2.41200 GH es BW 3.0 kHz Span 24.49 Mi 2.582 s (1000 pt W 10 kH IEEE 802.11b_Channel 11_20MHz_Antenna 0 IEEE 802.11g_Channel 1_20MHz_Antenna 0 nter Freq 2.437000000 GHz ter Freq 2.462000000 GHz Avg Type: Log-P AvgHold: 10/10 Avg Type: Log-P AvgHeld: 10/10 Trig: Free Run #Atten: 30 dB Trig: Free Run #Atten: 30 dB Ref Offset 2 dB Ref 20.00 dBn Ref Offset 2 dB Ref 20.00 dBn 1 391 wannananana panamanana when the second second second second second Span 24.51 2.584 s (1999 Span 24.53 M #VBW 10 kH; #VBW 10 kH IEEE 802.11g_Channel 6_20MHz_Antenna 0 IEEE 802.11g_Channel 11_20MHz_Antenna 0 nter Freq 2.41200000 Avg Type: Log-P Avg[Hold: 10/10 nter Freq 2.437000000 G Avg Type: Log-P Avg|Hold: 10/10 Trig: Free R Ref Offset 2 dB Ref 20.00 dB Ref Offset 2 dB Ref 20.00 dB ٨ Span 26.40 2.784 s (1000 nter 2.43700 es BW 3.0 kH Span 26.38 2.782 s (1000 2.4120 IEEE 802.11n_Channel 1_20MHz_Antenna 0 IEEE 802.11n_Channel 6_20MHz_Antenna 0

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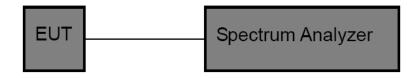


3.8. Duty Cycle

<u>Limit</u>

None, for report purposes only.

Test Configuration



Test Procedure

- 1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- 2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.

3. Spectrum Setting:

Set analyzer center frequency to test channel center frequency. Set the span to 0Hz. Set the RBW to 8MHz. Set the VBW to 8MHz. Detector: Peak. Sweep time: Auto.

Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4.

Test Result

Test Mode	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T Minimum VBW (kHz)	Final Setting for VBW (kHz)
	2412	8.384	8.452	99.20	0.12	1
11B	2437	8.383	8.451	99.20	0.12	1
	2462	8.384	8.452	99.20	0.12	1
	2412	1.393	1.460	95.43	0.72	1
	2437	1.393	1.460	95.43	0.72	1
	2462	1.393	1.460	95.43	0.72	1
	2412	5.086	5.152	98.72	0.20	1
11N20SISO	2437	5.086	5.153	98.71	0.20	1
24	2462	5.087	5.153	98.72	0.20	1
11N40SISO 2437	2422	2.469	2.536	97.37	0.41	1
	2437	2.469	2.536	97.37	0.41	1
	2452	2.469	2.536	97.37	0.41	1

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Test Graphs:			
	Agilent Spectrum Analyzer - Swept SA U RL RF 50 Q AC SENSE PULSE Center Freq 2.412000000 GHz Trig: Free Run	ALSY(M/TO) 01:44:31PM Jun 14: 2025 Avg Type: RMS Processor	
	IFGain:Low Atten: 28 dB	DET A A A A A A	
	Ref Offset 2 dB 10 dB/div Ref 20.00 dBm	ΔMkr3 8.452 ms -34.74 dB	
	10.0	3∆1	
	-30.0		
	40.0		
	.70.0		
	Center 2.412000000 GHz #VBW 8.0 MHz* Res BW 8 MHz #VBW 8.0 MHz* IwiR MODE TRC SCL X Y BUNCTION B	Span 0 Hz Sweep 32.00 ms (40000 pts) ACTION MOTH FUNCTION VALUE	
	1 N 1 t 14.45 ms 13.49 dBm 2 Δ1 1 t (Δ) 8.384 ms (Δ) 0.21 dB 3 Δ1 1 t (Δ) 8.452 ms (Δ) -0.47 dB		
	4 6 6		
	7 8 9 10		
		energia de la constante de la	
	IEEE 802.11b_20MHz_	Channel 1	
	Agilent Spectrum Analyzer - Swept SA OU RL RF 50 Q AC SENSE:PULSE	ALIGVAUTO 01-48-17 PM Jan 14, 2025 Avg Type: RMS TRACE II 2 a 4	
	Center Freq 2.437000000 GHz PNO: Fast Trig: Free Run IFGain:Low Atten: 36 dB	DET AAAAA	
	Ref Offset 2 dB 10 dB/div Ref 27.00 dBm	ΔMkr3 8.451 ms -38.95 dB	
	7.00	<u></u>	
	13.0	301	
	-23.0 		
	-43.0		
	-63.0		
	Center 2.437000000 GHz Res BW 8 MHz #VBW 8.0 MHz*	Span 0 Hz Sweep 45.33 ms (40000 pts)	
	MRR MODE TFC SQL X Y Y FLINCTION FL 1 N 1 t 24,79 ms 14.48 dBm 168 dB 168 dB	RUNCTION VALUE	
	3 Δ1 1 C (Δ) 8.451 ms (Δ) -38.95 dB 4 4 4 5 6 6 6 6 6 6 6 7 <th7< th=""> 7 7 <th7< th=""></th7<></th7<>		
	7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		
		۲. کا	
	IEEE 802.11b_20MHz_	status Channel 6	
	Aglient Spectrum Analyzer - Swept SA 00 RL RF 50 Q AC SENSE-PULSE	ALIGNAUTO 01:51:23 PM Jan 14, 2025	
	Center Freq 2.462000000 GHz PN0: Fast IFGaint.tow Atten: 36 dB	Avg Type: RMS TRACE DO BUT TYPE CONTRACT TO BOT	
	Ref Offset 2 dB 10 dB/div Ref 28.00 dBm	∆Mkr3 8.452 ms -32.22 dB	
		2 ² Δ1	
	200	3Δ1	
	220		
	420		
	42.0		
	Center 2.462000000 GHz Res BW 8 MHz #VBW 8.0 MHz*	Span 0 Hz Sweep 32.00 ms (40000 pts)	
	MKR MODE TRC, SOL X Y FUNCTION FU 1 N 1 t 10.21 ms 10.94 dBm FUNCTION FU 2 Δ1 1 t (Δ) 8.384 ms (Δ) 2.65 dB 3 Δ1 1 t (Δ) 8.452 ms (Δ) -32.22 dB	NCTION WIDTH FUNCTION VALUE	
	3 Δ1 1 t (Δ) 9.452 ms (Δ) -32.22 dB 4 5 - - - - - -		
		×.	
	wsg	STATUS	
	IEEE 802.11b_20MHz_	Channel 11	

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3.9. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C 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. The use of a permanently attached antenna or of antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i)

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

<u>Test Result</u>

The directional gain of the antenna is less than 6dBi, please refer to the EUT internal photographs antenna photo.

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