



TEST REPORT

-		
Report No:	CTC2025004006	
FCC ID:	2BB6E-GLMM24A01	
Applicant:	UCLOUDLINK (SINGAPORE) F	PTE.LTD
Address:	80 ROBINSON ROAD #02-00 SIN	NGAPORE(068898)
Manufacturer	UCLOUDLINK (SINGAPORE) F	PTE.LTD
Address	80 ROBINSON ROAD #02-00 SIN	NGAPORE(068898)
Product Name:	LTE Module	
Trade Mark:	GlocalMe	
Model/Type reference:	GLMM24A01	
Listed Model(s):	/	
Standard:	FCC CFR Title 47 Part 15 Subpa	art C Section 15.247
Test Report Form No	CTC-TR-057_A1	
Master TRF	Dated 2024-09-20	
Date of receipt of test sample:	Jan. 6, 2025	
Date of testing	Jan. 6, 2025 ~ Feb. 26, 2025	
Date of issue	Mar. 26, 2025	
Result	PASS	
Compiled by:		Tim Jiang
(Printed name+signature)	Jim Jiang	Jim Jiang Zinc zhang
Supervised by:		This share
(Printed name+signature)	Eric Zhang	BACCER
		1 20-00
Approved by:		Johnas
(Printed name+signature)	Totti Zhao	/
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it to claim product endorsement by C		-
The test report shall be invalid without	-	

not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by CTC. The Test Result in the report only apply to the tested sample. The test report shall be invalid without all the signatures of testing engineers, reviewer and approver. Any objections must be raised to CTC within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.

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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	CTC2025004006	Mar. 26, 2025	Original

1.3. Test Description

FCC Part 15 Subpart C (15.247) / RSS-247 Issue 3				
	Standard	Standard Section		Test
Test Item	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.

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 in our 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 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:	UCLOUDLINK (SINGAPORE) PTE.LTD	
Address:	80 ROBINSON ROAD #02-00 SINGAPORE(068898)	
Manufacturer:	UCLOUDLINK (SINGAPORE) PTE.LTD	
Address:	80 ROBINSON ROAD #02-00 SINGAPORE(068898)	
Factory:	Shenzhen uCloudlink Network Technology Co., Ltd.	
Address:	3rd Floor, A part of Building 1, Shenzhen Software Industry Base, Nanshan District Xuefu Road, 518057 Shenzhen City, Guangdong, China	

2.2. General Description of EUT

Product Name:	LTE Module
Trade Mark:	GlocalMe
Model/Type reference:	GLMM24A01
Listed Model(s):	/
Model Difference:	/
Sample ID:	CTC241220-003-S002, CTC241220-003-S003
Power Supply:	Input: 3.8Vdc, 1A
Hardware version:	T20-MB-VB
Software version:	T20_TSV1.0.000.002
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:	Chip Antenna
Antenna Gain:	-4.99dBi

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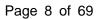


2.3. Accessory Equipment Information

Equipment Information			
Name	Model	S/N	Manufacturer
Notebook	ThinkPad T460s	MP246QDR	Lenovo
Adapter	ADLX65UCGC2A	/	Lenovo
Battery	T20	/	uCloudlink
Cable Information			
Name	Shielded Type	Ferrite Core	Length
USB Cable	Unshielded	NO	100cm
Test Software Information			
Name	Version	/	/
SSCOM	V5.13.1	/	1

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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).

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

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.

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2.5. Measurement Instruments List

		RF Test Syste	m - 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 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	nna 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

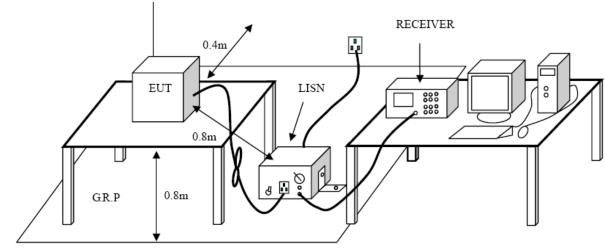
<u>Limit</u>

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

	Conducted 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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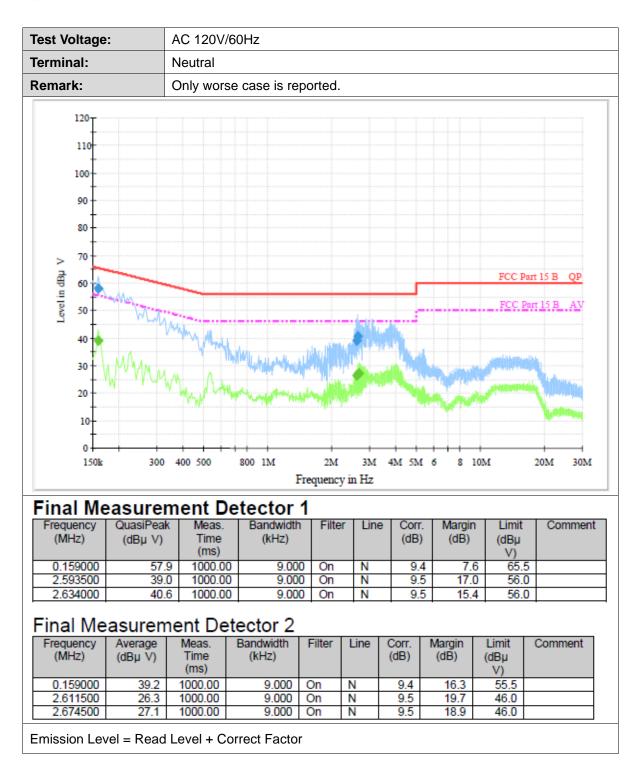


iest ve	oltage		AC 120V	/60Hz						
Termin	al:		Line							
Remark: Only worse case is reported.										
120 _T										
	110									
	100-									
	90									
	80 -									
	70									
Level in dBµ V									FCC P	art 15 B QP
i l	60	MI								
Leve	50	WWW.	-						FCC I	Part 15 B AV
	40		Munut				htt			
		M. *	m	NAMES AND				liet to a	Jahlahak	
	30	1 MA			, Lilli, D		A.			A Share
	20		VIN MA	Mar Au			" N	Million	A second	
	10-			- W	phin.t.					
	0 +	300	400 500	800 1M	2M	3M	4M 5M	6 8 1	+ 0M	20M 30M
				F	requenc	y in Hz				
Fina	l Me	asure	ment D	etector	1					
Frequ	ency	QuasiPeal	Meas.	Bandwidth		er Line				Comment
(MF	łz)	(dBµ V)	Time (ms)	(kHz)			(dB)) (dB)	(dBµ	
0.16	63500	57.		0 9.00	0 On	L1	9.	5 7.9	V) 0 65.	3
	19000	47.				L1	9.			
2.63	38500	40.	6 1000.0	0 9.00	0 On	L1	9.0	6 15.4	4 56.	0
Fina	l Me	asurem	nent De	etector 2						
Frequ	ency	Average	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit	Comment
	1Z)	(dBµ V)	Time (ms)	(kHz)			(dB)	(dB)	(dBµ V)	
(Ḿ⊦				9.000	On	L1	9.5	17.8	53.1	
0.21	13000 07000	35.3 28.3	1000.00 1000.00	9.000	On	L1	9.6	17.7	46.0	

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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

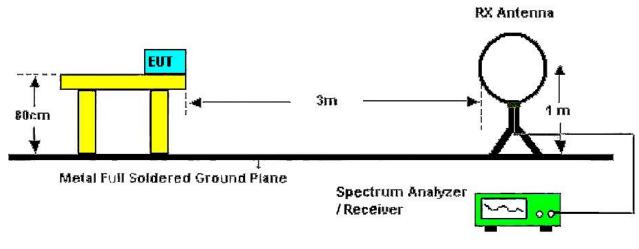
	dBµV/m (at 3 meters)			
Frequency Range (MHz)	Peak	Average		
Above 1000	74	54		

Note:

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

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

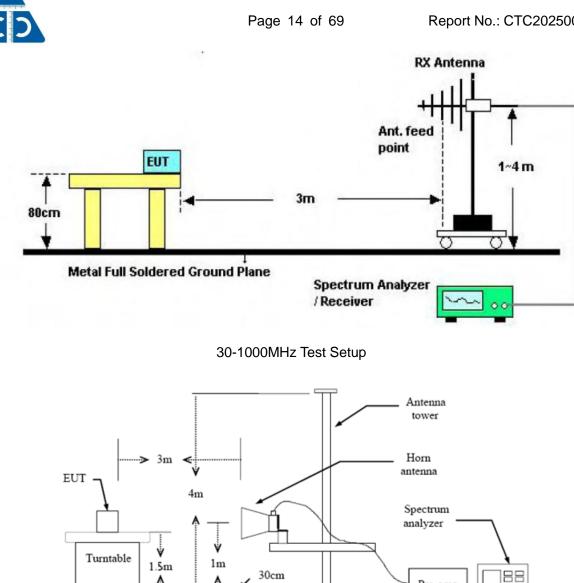
Test Configuration



Below 30MHz Test Setup

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Above 1GHz Test Setup

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 10^{th} 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

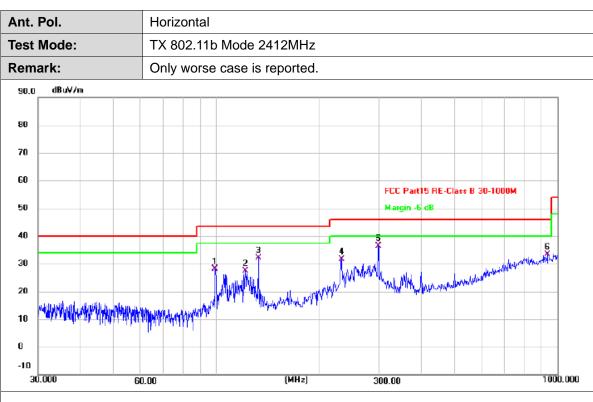
9 kHz~30 MHz

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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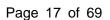


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	99.5279	48.25	-20.12	28.13	43.50	-15.37	QP
2	121.5485	45.53	-18.24	27.29	43.50	-16.21	QP
3	132.6850	49.43	-17.30	32.13	43.50	-11.37	QP
4	232.5318	49.96	-18.25	31.71	46.00	-14.29	QP
5 *	298.2681	52.00	-15.56	36.44	46.00	-9.56	QP
6	935.5462	35.15	-1.66	33.49	46.00	-12.51	QP

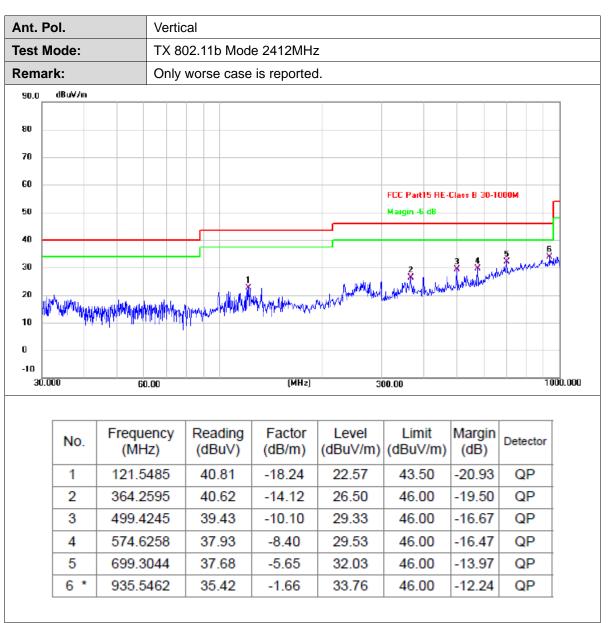
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

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 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	4823.940	44.33	1.87	46.20	74.00	-27.80	peak
2 *	4823.991	32.17	1.87	34.04	54.00	-19.96	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)	Limit (dBuV/m)	Margin (dB)	Detector
1	4823.913	42.96	1.87	44.83	74.00	-29.17	peak
2 *	4823.937	29.24	1.87	31.11	54.00	-22.89	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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nt. Po	ol.		Ног	rizontal					
st Mo	ode:		ТΧ	802.11b Mc	ode 2437M	Hz			
emark	c :		No limi	report for th t.	ne emissior	which mor	e than 20 d	B below	the pres
Г		_							
[No.	Frequer (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

nt. Po	ol.		Ver	tical					
est M	ode:		ТΧ	802.11b Mc	de 2437MI	Ηz			
Remar	k:		No report for the emission which more than 20 dB below the prescribe limit.						
	No.	Frequer (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. Po	ol.	H	Horizontal						
Test M	ode:	T)	TX 802.11b Mode 2462MHz						
Remar	k:		o report for th	e emission	which more	e than 20 dl	B below	the presc	ribed
					1				
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit	Margin (dB)	Detector	

2.04

2.04

45.85

33.79

74.00

54.00

-28.15

-20.21

peak

AVG

Remarks:

1

2 *

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

43.81

31.75

2.Margin value = Level -Limit value

4923.935

4923.949

Ant. Po	t. Pol.			tical					
Test M	ode:		ТΧ	802.11b Mc	de 2462MI	Ηz			
Remar	k:		No report for the emission which more than 20 dB below the prescribe limit.						
		-			Fritz				
	No.	Frequer (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. Po	ol.	Horizontal								
Test Mo	ode:		TX 802.11g Mode 2412MHz							
Remarl	k:		No r limit	•	e emission	which more	e than 20 d	B below	the presc	ribed
						1	1	1	1	r
	No.	Frequer (MHz	-	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	

1.87

1.87

43.05

30.99

74.00

54.00

-30.95

-23.01

peak

AVG

Remarks:

1

2 *

4824.157

4824.389

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

41.18

29.12

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	28.03	1.87	29.90	54.00	-24.10	AVG
2	4824.145	40.80	1.87	42.67	74.00	-31.33	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. Po	Pol.		Ног	rizontal		Horizontal						
Test M	ode:		ТΧ	802.11g Mc	de 2437M	Hz						
Remar	k:		No limi	report for th t.	e emission	which mor	e than 20 d	B below	the preso	ribe		
	No.	Frequer (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. Po	ol.		Ver	tical					
Fest M	ode:		ТΧ	802.11g Mc	de 2437M	Hz			
Remar	k:		No limi	•	e emission	which more	e than 20 d	B below	the pres
	No.	Frequer (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. Po	ol.		Но	rizontal						
Test M	ode:		ТΧ	802.11g Mc	de 2462MI	Hz				
Remar	k:		No limi	report for th t.	e emission	which mor	e than 20 d	B below	the presc	ribed
	No.	Frequer (MHz)	-	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1 4923.78									
	1	4923.78	B O	41.85	2.04	43.89	74.00	-30.11	peak	

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

2.Margin value = Level -Limit value

Ant. Po	ol.		Ver	tical						
Test M	ode:		ТΧ	802.11g Mc	de 2462M	Hz				
Remar	k:		No limi	•	e emission	which more	e than 20 d	B below	the prescr	ibec
	No.	Frequer (MHz)	-	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	No.)	· · · ·					Delector	

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. Po	ol.		Hor	izontal						
Test Mo	ode:		TX 802.11n(HT20) Mode 2412MHz							
Remar	k:			No report for the emission which more than 20 dB below the prescribed limit.						ribed
	No.	Frequen (MHz)		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	4823.77	79	41.26	1.87	43.13	74.00	-30.87	peak	-
	2 *	4823.96	6 0	28.54	1.87	30.41	54.00	-23.59	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)		Margin (dB)	Detector
1	4823.897	41.08	1.87	42.95	74.00	-31.05	peak
2 *	4824.241	27.36	1.87	29.23	54.00	-24.77	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. Po	ol.		Hori	zontal						
Test Mo	ode:		TX 8	302.11n(HT	20) Mode 2	2437MHz				
Remar	k:		No r limit	•	e emission	which more	e than 20 d	B below	the preso	cribed
								1		Г
	No.	Frequen (MHz)	-	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	

1.95

1.95

43.52

30.35

74.00

54.00

-30.48

-23.65

peak

AVG

Remarks:

1

2 *

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

41.57

28.40

2.Margin value = Level -Limit value

4873.826

4874.432

t. Po	ol.		Vertic	al						
st M	ode:		TX 80)2.11n(HT	20) Mode	2437MHz				
mar	k:		No report for the emission which more than 20 dB below the prescrib limit.							
	No.	Frequen (MHz)	-	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	4873.88	8	41.10	1.95	43.05	74.00	-30.95	peak	
	2 *	4874.12	0	27.13	1.95	29.08	54.00	-24.92	AVG	

2.Margin value = Level -Limit value

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Ant. Po	ol.		Hor	izontal						
Test M	ode:		ТΧ	802.11n(HT	20) Mode	2462MHz				
Remar	emark:			No report for the emission which more than 20 dB below the prese						ribe
		Fraguer		Deading	Factor	Lovel	Limit	Margin		
	No.	Frequer (MHz	-	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	No.)	· · ·					Detector	

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

2.Margin value = Level -Limit value

nt. Pol.			Ver	tical						
est M	ode:		ТΧ	802.11n(HT	20) Mode	2462MHz				
emark:			No report for the emission which more than 20 dB below the prescrib limit.							
						1				
	No.	Frequen (MHz)		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	No.)			1			Detector 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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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	41.40	1.90	43.30	74.00	-30.70	peak
2 *	4843.930	28.21	1.90	30.11	54.00	-23.89	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)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4843.672	28.41	1.90	30.31	54.00	-23.69	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. Po	ol.		Hor	rizontal					
Test M	ode:		ТΧ	802.11n(HT	40) Mode	2437MHz			
Remar	k:		No limi	report for th t.	e emissior	which mor	e than 20 d	B below	the presc
	No.	Frequer (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. Po	ol.		Vertical								
Fest M	ode:		TX 802.11n(H1	40) Mode	2437MHz						
Remar	k:		No report for the emission which more than 20 dB below the prescrit limit.								
	No.	Frequence (MHz)	cy Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			
	1 *	4873.92	1 27.89	1.95	29.84	54.00	-24.16	AVG			
	2	4874.203	3 41.39	1.95	43.34	74.00	-30.66	peak			

2.Margin value = Level -Limit value

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Ant. Pol.		Н	Horizontal							
Test Mode:			TX 802.11n(HT40) Mode 2452MHz							
Remar	k:		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 *	4903.953	27.14	2.00	29.14	54.00	-24.86	AVG	-	

2.00

43.22

74.00

-30.78

peak

Remarks:

2

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

41.22

2.Margin value = Level -Limit value

4904.204

Ant. Po	Ant. Pol. Test Mode:			Vertical TX 802.11n(HT40) Mode 2452MHz							
Test M											
Remar	k:			No report for the emission which more than 20 dB below the prescribed limit.							
	No.	Frequer (MHz		Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		
		(·								
	1 *	4903.7	96	28.13	2.00	30.13	54.00	-23.87	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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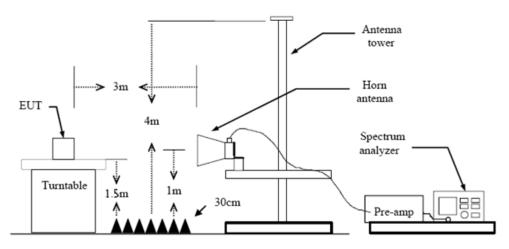
3.3. Band Edge Emissions (Radiated)

<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.

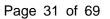
Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.8 Duty Cycle.

Test Mode

Please refer to the clause 2.4.

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nt. Pol. est Mode:		Horiz	ontal					
		TX 802.11b Mode 2412MHz						
20.0 dBu	V/m					1		
0								
0								
ı							m	
•						ECC Part15	N h C - Above 16	PK
•						FCC Part15	C - Above 16	
						*/**		A V
)								
·								
ا								
).0 2285.250	2300.25 2315	5.25 23	30.25 23	45.25 (MHz)	2375.25	2390.25 240)5.25 242	0.25 2435
No.	Frequence (MHz)	-	eading dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.00	0 1	18.72	31.31	50.03	74.00	-23.97	peak
	2390.00	0	5.60	31.31	36.91	54.00	-17.09	AVG
2 *					1			

2.Margin value = Level -Limit value

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nt. Pol.		Vertical								
est Mode:		TX 802	TX 802.11b Mode 2412MHz							
120.0 dBuV/	'n	_								
110										
100										
90										
80						ESC Devil	m			
70						FUL Part15	C - Above 10			
60						/				
50						FCC Part 5	C - Above 1G			
40						γ		"h		
30			-/		byearson and a second			M		
20										
0.0										
2284.500	2299.50 2314	1.50 2329	.50 23	44.50 (MHz)	2374.50	2389.50 240	4.50 241	9.50 2434		
No.	Frequen (MHz)	-	ading BuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		
1	2390.00	0 10	6.39	31.31	47.70	74.00	-26.30	peak		
	2390.00	0 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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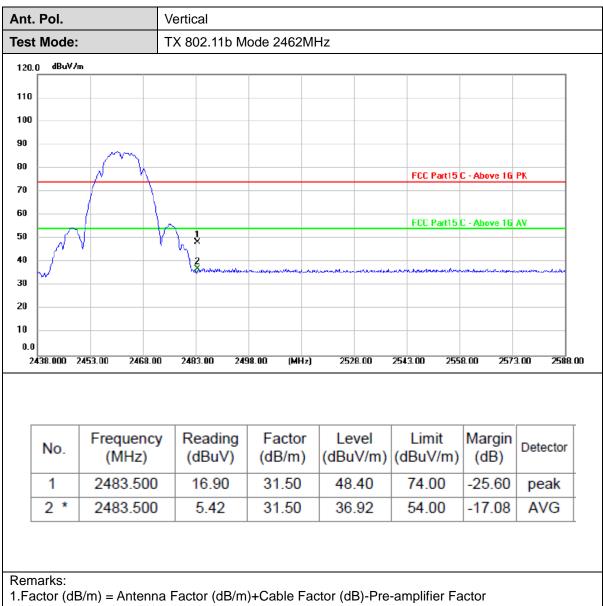
Ant. Pol.		Horizontal							
est Mode:		TX 802.11b Mode 2462MHz							
120.0 dBuV/	/m								
110 100 90 80					FCC Part15	C - Above 16	PK		
		A & Bonummer		569.00.1.00.100.000.000.000.000.000.000.00	FCC Part15	C - Above 1G	AV		
0	2452.25 2467.2	5 2482.25 24	197.25 (MHz)	2527.25	2542.25 255	7.25 257	2.25 258		
No.	Frequency (MHz)	y Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		
-	2483.500	17.97	31.50	49.47	74.00	-24.53	peak		
1	2483.500	5.02	31.50	36.52	54.00	-17.48	AVG		

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2.Margin value = Level -Limit value





2.Margin value = Level -Limit value

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	Horizontal								
	TX 802.11g Mode 2412MHz								
/m									
						_			
				FCC Part15	C - Above 1G	PK			
				FCC Part15	C - Above 1G	AY			
				2		Long			
	an the second and the second	a and a straight straight	when mental and a second a se	- en St					
						8.00 243			
Frequency (MHz)	y Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			
2390.000	20.81	31.31	52.12	74.00	-21.88	peak			
2390.000	5.80	31.31	37.11	54.00	-16.89	AVG			
	Frequency (MHz)	2298.00 2313.00 2328.00 23 Frequency (MHz) Reading (dBuV)	Image: state stat	Image: state in the state	Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) Limit (dBuV/m)	Frequency (MHz) Reading (dBuV) Factor (dB/m) Level (dBuV/m) Limit (dBuV/m) Margin (dBuV/m)			

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Ant. Pol.	1	Vertical							
Test Mode:		TX 802.11g Mode 2412MHz							
120.0 dBuV/	/m								
110									
100									
90									
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70									
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0.0 2283.750	2298.75 2313.75	2328.75 234	43.75 (MHz)	2373.75	2388.75 2403	3.75 2418	1.75 2433		
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector		
	2390.000	17.28	31.31	48.59	74.00	-25.41	peak		
1			31.31	37.23	54.00	-16.77	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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		Horizontal								
est Mode:		TX 802.11g M	ode 2462MH	Ηz						
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).0 2 4 37.250	2452.25 2467.25	2482.25 249	97.25 (MHz)	2527.25	2542.25 255	7.25 257	2.25 2587			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector			
No.		-					Detector			

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

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est Mode:		ТХ	(802.11g N	lode 2462M	Hz			
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2438.000	2453.00 246	8.00	2483.00 2	498.00 (MHz)	2528.00	2543.00 255	8.00 257	3.00 2588.
No.	Frequen (MHz)	-	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.50	0	17.72	31.50	49.22	74.00	-24.78	peak
2 *	2483.50	0	5.44	31.50	36.94	54.00	-17.06	AVG
L				1	1			. <u> </u>

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nt. Pol.		Horizonta	al					
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No.	Frequen (MHz)	cy Read (dBu				Limit (dBuV/m)	Margin (dB)	Detector
1	2390.00	0 21.5	53 31.3	1 52.	84	74.00	-21.16	peak
2 *								-
0.4	2390.00	0 8.5	5 31.3	39.	.86	54.00	-14.14	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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N	lo.		quen //Hz)	-		ading 3uV)	1	ctor /m)	Le (dBu			imit uV/m)	Margin (dB)	Detector
	1	239	0.00	00	20).63	31	.31	51.	.94	7	4.00	-22.06	peak
2	2 *	239	0.00	00	7	.69	31	.31	39.	00	5	4.00	-15.00	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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0.0 2/	438.000 2	453.00 2468.	00	2483.00 24	98.00 (MHz)	2528.00	2543.00 255	8.00 257	3.00 2588.00
	No.	Frequenc (MHz)	y	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	2483.500)	22.65	31.50	54.15	74.00	-19.85	peak
	2 *	2483.500)	9.19	31.50	40.69	54.00	-13.31	AVG
Rema	arks:								k
		/m) = Antenr ue = Level -I)+Cable Fac	tor (dB)-Pre	amplifier Fa	ctor	

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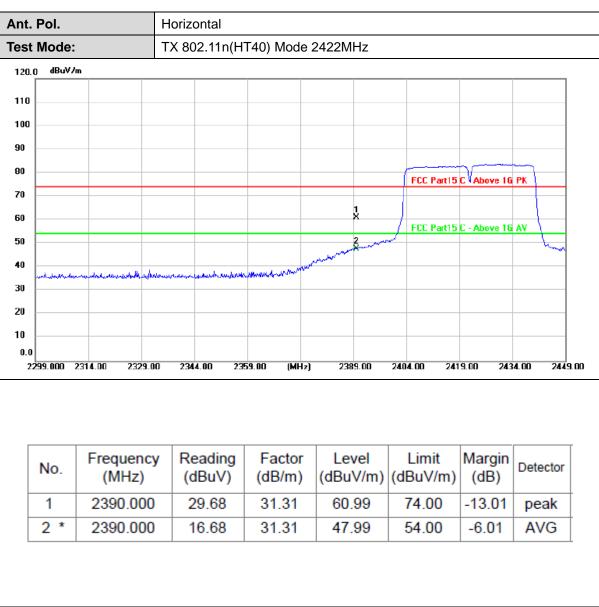
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2440.250	2455.25 2470	0.25	2485.25 25	00.25 (MHz)	2530.25	2545.25 256	0.25 257	5.25 2590
No.	Frequen (MHz)	-	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.50		20.06	31.50	51.56	74.00	-22.44	peak
2 *	2483.50		6.64	31.50	38.14	54.00	-22.44	AVG
2	2403.00		0.04	31.00	30.14	04.00	-10.00	AVG

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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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		Vertic	cal						
est Mode:		TX 8	02.11n(H ⁻	T40) Mode 2	2422MH	Ηz			
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0.0 2300.500 2	2315.50 2330	50 12	45.50 236	60.50 (MHz)	2390	50	2405.50 242	0.50 243	5.50 2450
					1				
No.	Frequen (MHz)	-	eading dBuV)	Factor (dB/m)	Lev (dBu\		Limit (dBuV/m)	Margin (dB)	Detector
No.		(~ 1		1	//m)			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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nt. Po	-	Horizontal	Horizontal								
est Mo	de:	TX 802.11n(HT40) Mode 2	2452MHz							
120.0 d	BuV/m										
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0.0 2426.7	50 2441.75 2456	6.75 2471.75	2486.75 (MHz)	2516.75	2531.75 254	l6.75 256	i1.75 257				
No	Frequen (MHz)		· .	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector				
	2483.50	0 28.65	31.50	60.15	74.00	-13.85	peak				
1					54.00	7.70	AVC				
1	* 2483.50	0 14.74	31.50	46.24	54.00	-7.76	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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).0 2 4 28	. 250	2443.25	245	8.25	247	3.25	248	38.25	(MHz)	251	8.25	2533.3	25 254	18.25 256	3.25 257
N	lo.	Frec	juen 1Hz)			eadin IBuV	-		ctor 8/m)		vel V/m)	1	imit uV/m)	Margin (dB)	Detector
	1	248	3.50)0	2	1.24		31	.50	52	.74	74	4.00	-21.26	peak
2	2 *	248	3.50	00	(9.23		31	.50	40	.73	54	4.00	-13.27	AVG
mar	ke.														

2.Margin value = Level -Limit value

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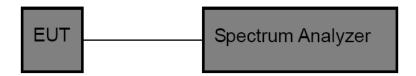
3.4. Band Edge and Spurious Emissions (Conducted)

<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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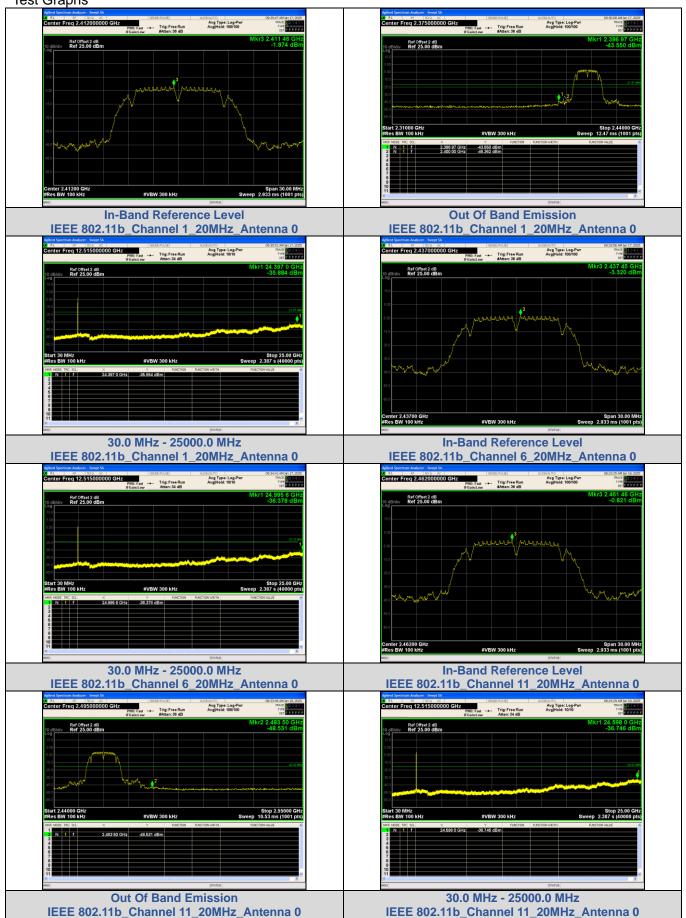
Test Result

Mode	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
		2396.97	-43.550	-21.87	-21.680	PASS
	1	2400.00	-46.362	-21.87	-24.492	PASS
IEEE 802.11b		24397.0	-35.884	-21.87	-14.014	PASS
IEEE 002.11D	6	24995.6	-36.378	-23.32	-13.058	PASS
	11	2483.50	-48.531	-20.82	-27.711	PASS
	11	24598.0	-36.746	-20.82	-15.926	PASS
	1	2400.00	-41.019	-22.32	-18.699	PASS
	I	24650.4	-36.323	-22.32	-14.003	PASS
IEEE 802.11g	6	24632.3	-36.380	-23.69	-12.690	PASS
_	11	2483.50	-48.590	-22.40	-26.190	PASS
		24633.6	-35.816	-22.40	-13.416	PASS
	1	2400.00	-42.641	-22.57	-20.071	PASS
	I	24346.4	-36.587	-22.57	-14.017	PASS
IEEE	6	24372.0	-36.253	-23.72	-12.533	PASS
802.11n_20	11	2483.50	-44.684	-22.23	-22.454	PASS
	11	24641.0	-35.881	-22.23	-13.651	PASS
		2390.73	-39.688	-25.04	-14.648	PASS
	3	2400.00	-44.256	-25.04	-19.216	PASS
IEEE		24986.9	-35.928	-25.04	-10.889	PASS
802.11n_40	6	24634.2	-36.803	-25.92	-10.883	PASS
	9	2483.50	-45.790	-24.63	-21.160	PASS
	9	24634.8	-36.590	-24.63	-11.960	PASS

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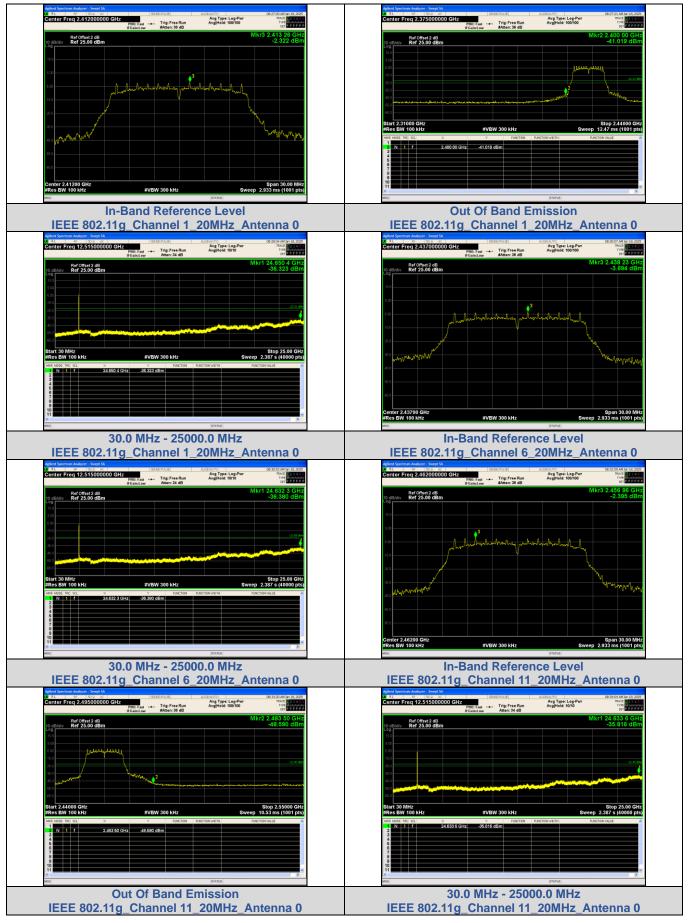
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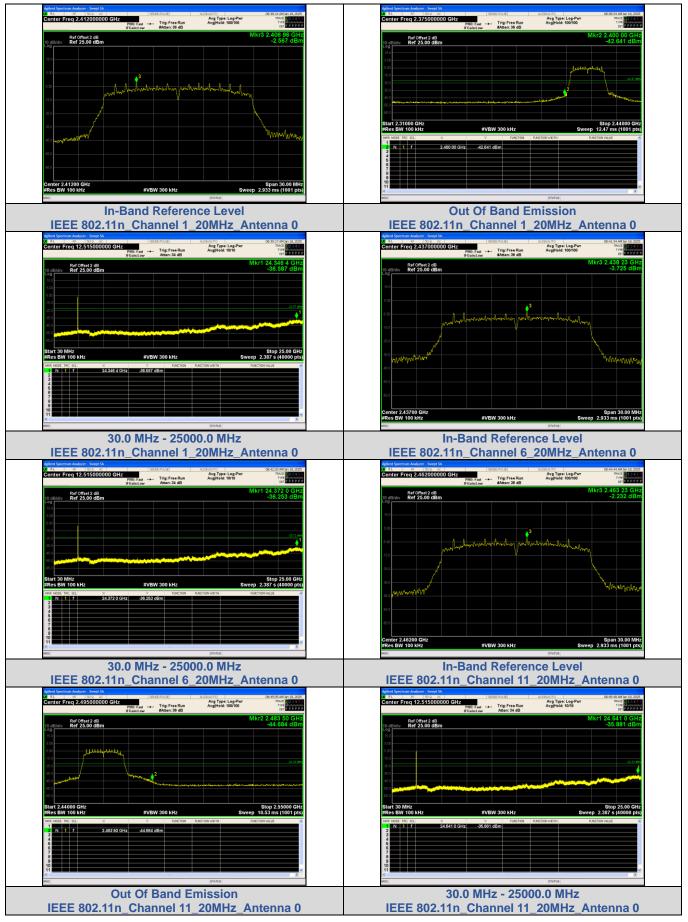
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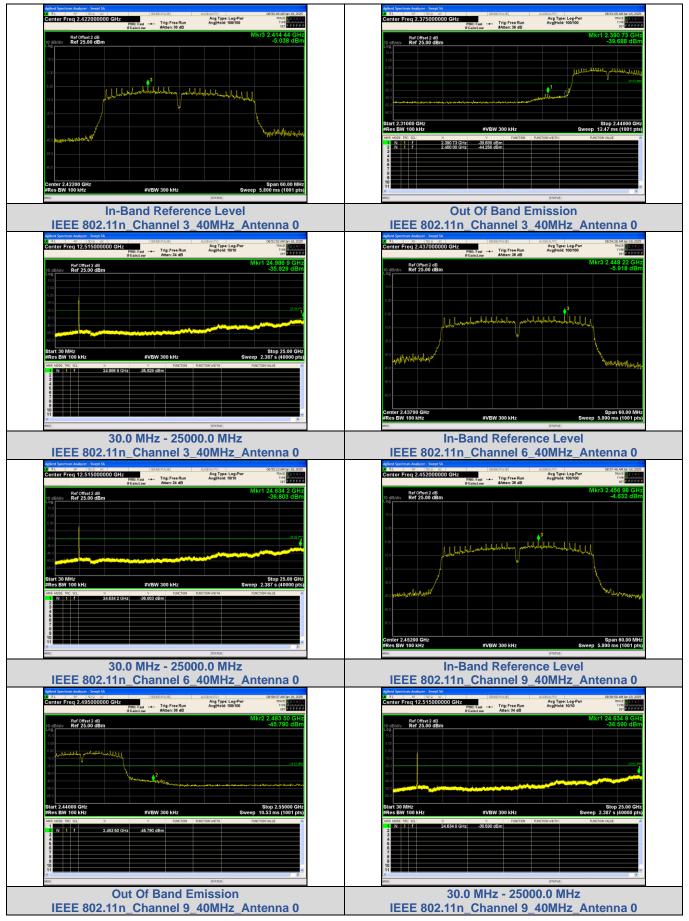
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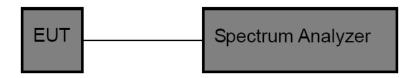
3.5. DTS Bandwidth

<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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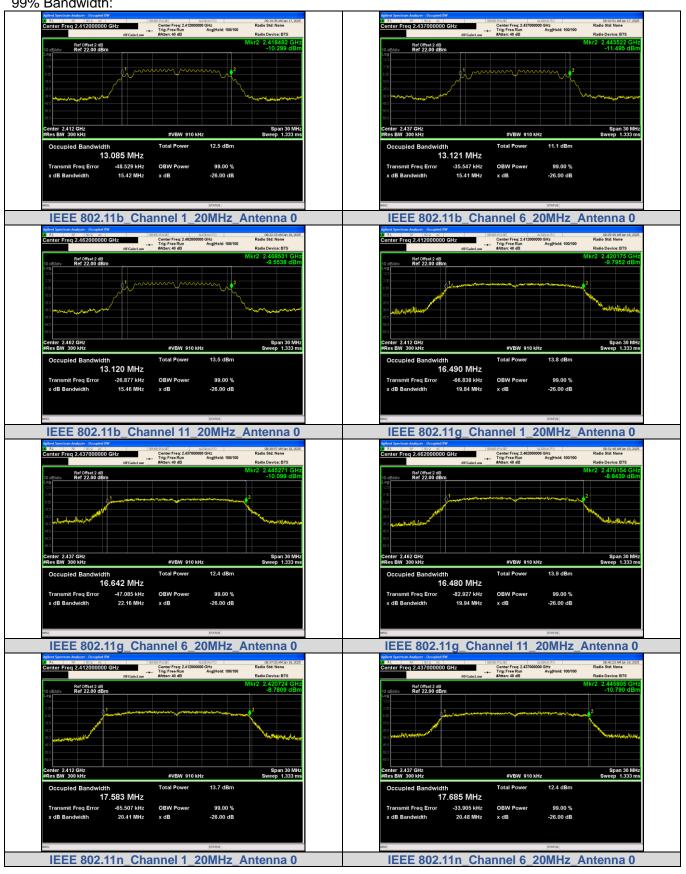


Test Result

Test Mode	Channel Frequency[MHz]	OCB [MHz]	DTS BW [MHz]	Limit[MHz]	Verdict
	2412	13.085	10.20		
11B	2437	13.121	11.14		
	2462	13.120	10.20		
	2412	16.490	15.09		
11G	2437	16.642	15.13		
	2462	16.480	15.11	>0.5	PASS
	2412	17.583	15.11	≥0.5	FA33
11N20SISO	2437	17.685	15.05		
	2462	17.589	15.03		
	2422	35.770	35.06		
11N40SISO	2437	36.032	35.16		
	2452	35.628	35.07		

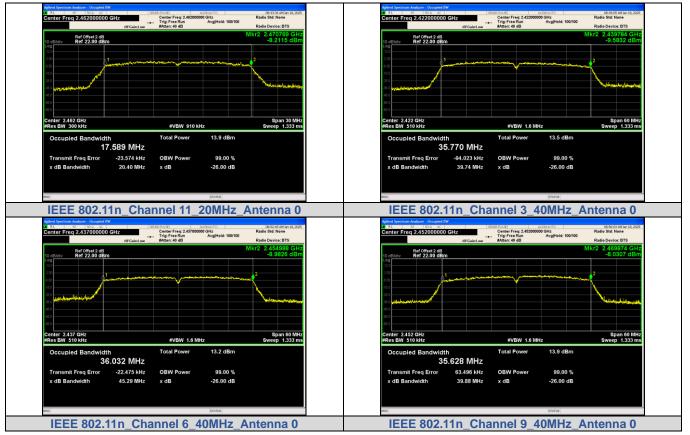
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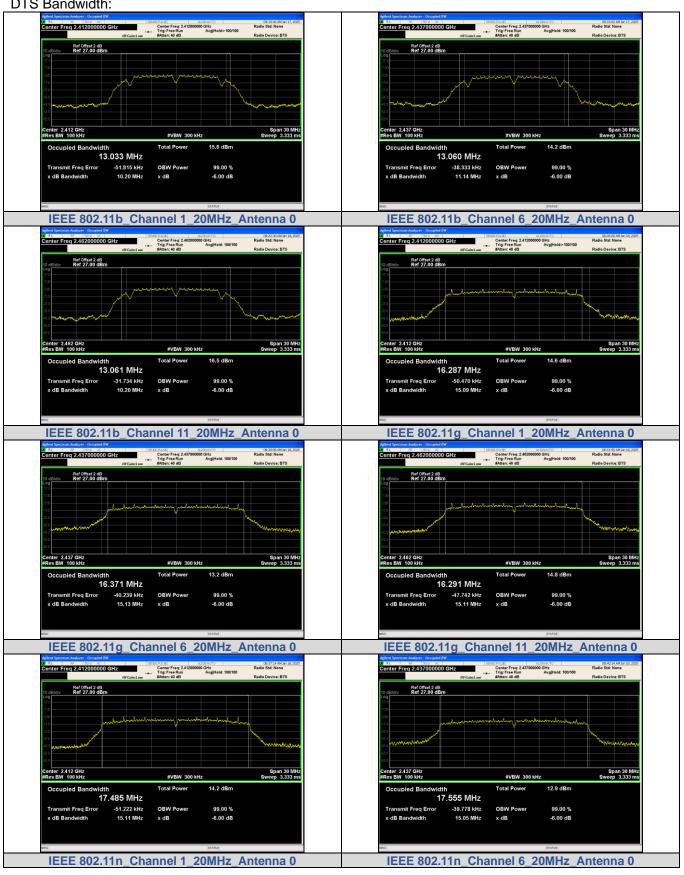
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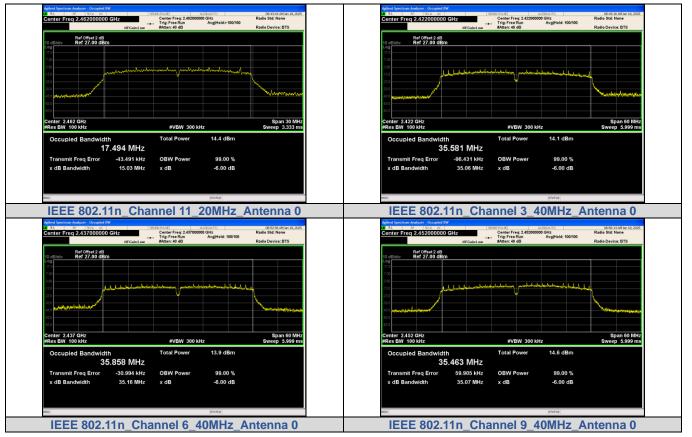
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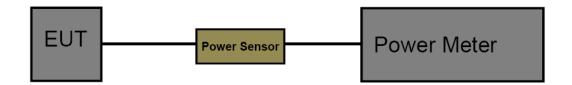
3.6. Peak Output Power

<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
1020 1100 247 0.4 U	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 Power[dBm]	Conducted Average Power[dBm]	Conducted Limit[dBm]	Verdict
	2412	11.36	8.811	≤30.00	PASS
11B	2437	10.15	8.026	≤30.00	PASS
	2462	12.39	9.252	≤30.00	PASS
	2412	15.35	8.285	≤30.00	PASS
11G	2437	14.01	6.957	≤30.00	PASS
	2462	15.47	8.415	≤30.00	PASS
	2412	15.23	8.075	≤30.00	PASS
11N20SISO	2437	13.94	6.777	≤30.00	PASS
	2462	15.37	8.231	≤30.00	PASS
	2422	15.00	7.834	≤30.00	PASS
11N40SISO	2437	14.65	7.460	≤30.00	PASS
	2452	15.35	8.189	≤30.00	PASS

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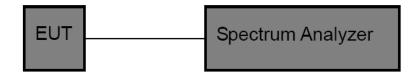
3.7. Power Spectral Density

<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 Spectral 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	-18.163	≤8.00	PASS
11B	2437	-19.676	≤8.00	PASS
	2462	-16.865	≤8.00	PASS
	2412	-17.237	≤8.00	PASS
11G	2437	-18.753	≤8.00	PASS
	2462	-17.895	≤8.00	PASS
	2412	-17.574	≤8.00	PASS
11N20SISO	2437	-19.208	≤8.00	PASS
	2462	-16.979	≤8.00	PASS
	2422	-20.424	≤8.00	PASS
11N40SISO	2437	-21.676	≤8.00	PASS
	2452	-19.592	≤8.00	PASS

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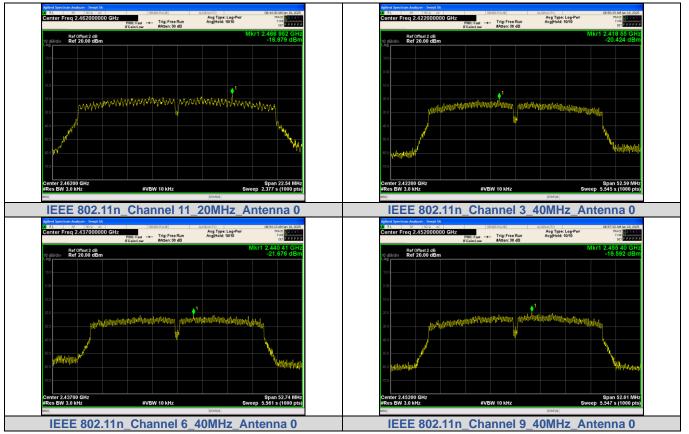


enter Freg 2.412000000 GHz Avg Type: Log-Pwr Avg[Hold: 10/10 er Freg 2.437000000 GHz Avg Type: Log-Pw Avg[Hold: 10/10 Fast ---- Trig: Free Ru ---- Trig: Free R Ref Offset 2 dB Ref 20.00 dBm Ref Offset 2 dB Ref 20.00 dBn Span 15.30 M Span 16.71 Sweep 1.762 s (1000 #VBW 10 kHz #VBW 10 kH: IEEE 802.11b_Channel 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 0: 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 MANAMAN Span 15.30 Mi 1.613 s (1000 p nter 2.41200 G es BW 3.0 kHz Span 22.63 Mi 2.386 s (1000 pt ter 2.462000 GH W 10 kH: IEEE 802.11b_Channel 11_20MHz_Antenna 0 IEEE 802.11g_Channel 1_20MHz_Antenna 0 nter Freq 2.437000000 GH: Avg Type: Log-F AvgIHold: 10/10 er Freq 2.462000000 GH Avg Type: Log-P AvgHeld: 10/10 Frig: Free Run Trig: Free Run #Atten: 30 dB Ref Offset 2 dB Ref 20.00 dBn Ref Offset 2 dB Ref 20.00 dBr www.www.www.www.www. #VBW 10 kH; #VBW 10 kH IEEE 802.11g_Channel 6_20MHz_Antenna 0 IEEE 802.11g_Channel 11_20MHz_Antenna 0 nter Freq 2.412000 Avg Type: Log-P Avg[Hold: 10/10 nter Freq 2.437000000 Avg Type: Log-P Avg|Hold: 10/10 Ref Offset 2 dB Ref 20.00 dB Ref Offset 2 dB Ref 20.00 dB mann Span 22.66 Span 22.58 2.381 s (1000 IEEE 802.11n_Channel 1_20MHz_Antenna 0 IEEE 802.11n_Channel 6_20MHz_Antenna 0

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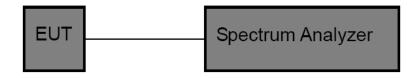


3.8. Duty Cycle

<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 10MHz. Set the VBW to 10MHz. 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]	DC [%]	1/T Minimum VBW (kHz)	Final Setting for VBW (kHz)
	2412	8.384	8.402	99.78	0.12	1
11B	2437	8.385	8.402	99.79	0.12	1
	2462	8.385	8.402	99.79	0.12	1
	2412	1.393	1.410	98.79	0.72	1
11G	2437	1.393	1.410	98.81	0.72	1
	2462	1.393	1.410	98.79	0.72	1
	2412	5.087	5.103	99.69	0.20	1
11N20SISO	2437	5.087	5.103	99.69	0.20	1
	2462	5.087	5.103	99.69	0.20	1
	2422	2.469	2.486	99.31	0.41	1
11N40SISO	2437	2.469	2.486	99.32	0.41	1
	2452	2.469	2.486	99.32	0.41	1

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Test Graphs	
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	-320 -420
	720
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	MBR MORE FIL Y FUNCTION FUNCTION VALUE 1 N 1 1 15.05 ms 4.65 dBm FUNCTION VALUE 2 Δ1 1 1 16.05 ms 4.65 dBm FUNCTION VALUE 3 Δ1 1 1 0.080 dB FUNCTION VALUE FUNCTION VALUE
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	Ref Offset2 dB 10 dBRdiv Ref 19.00 dBm -36.77 dB ↓og am
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	Center 2.462000000 GHz Span 0 Hz Res BW 8 MHz #VBW 8.0 MHz* Sweep 32.00 ms (40000 pts) MKR MODE, TRC, SQL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
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	11 () () () () () () () ()
	and Status
	IEEE 802.11b_20MHz_Channel 11

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Agilent Spectrum Analyzer - Swept SA 00 RL RF 50 Ω AC	SENSE:PULSE ALIGN A	JTO 08:48:55 /	W Jan 18, 2025	
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Agilent Spectrum Analyzer - Swept SA				
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Res BW 8 MHz	#VBW 8.0 MHz*	Sweep 10.00 ms (Span 0 Hz 10000 pts)	
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Res BW 8 MHz	Y FUNCTION FUNCTION		Span 0 Hz J0000 pts)	
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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.