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TEST REPORT

Applicant:	TCL Delonghi Home Appliances (Zhongshan) Co., Ltd.	
Address of Applicant:	Shenghui North Industrial District, Nantou, Zhongshan, Guangdong, P.R.China	
Manufacturer:	Hangzhou Gubei Electronics Technology Co., Ltd.	
Address of Manufacturer:	Room106 No.1Building.No.611 Jianghong Road, Changhe Street Binjiang District, Hangzhou	
Product name:	Wifi module	
Model:	5005-HBS	
Rating(s):	Input: DC 5V	
Trademark:	DeLonghi	
Standards:	47 CFR PART 15 Subpart C: 2013 section 15.247	
FCC ID:	2AHH3-5005HBS	
Data of Receipt:	2016-01-25	
Date of Test:	2016-01-25~2016-03-10	
Date of Issue:	2016-03-10	
Test Result	Pass*	

^{*} In the configuration tested, the test item complied with the standards specified above.

Authorized for issue by:

Test by:	Jumy	9iu	Reviewed by:	Panles	/ L:
Mar.10, 2016 Ju	ımy Qiu		Mar.10, 2016	Pauler Li	
Pr	roject Engineer			Project Manager	
Date Na	ame/Position	Signature	Date	Name/Position	Signature

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Possible test case verdicts:

test case does not apply to the test object ..: N/A

test object does meet the requirement: P (Pass)

test object does not meet the requirement ..: F (Fail)

Testing Laboratory information:

Testing Laboratory Name: I-Test Laboratory

Address : 1-2 floor, South Block, Building A2 , No 3 Keyan Lu,

Science City, Guangzhou, Guangdong Province, P.R. China

Testing location : Same as above

Tel : 0086-20-32209330

Fax : 0086-20-62824387

E-mail : itl@i-testlab.com

General remarks:

The test results presented in this report relate only to the object tested.

The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report would be invalid test report without all the signatures of testing technician and approver.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

Note:

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1 Test Summary

Test	Test Requirement	Test method	Result
Antonio De minera d	FCC PART 15 C	FCC PART 15 C	
Antenna Requirement	section 15.247 (c) and Section 15.203	section 15.247 (c) and Section 15.203	PASS
Occupied Bandwidth	FCC PART 15 C	ANSI C63.10:2013	PASS
Occupied Bandwidth (6dB)	section 15.247 (a)(2)	Clause 6.9 and KDB 558074 D01 v03r04	PASS
	FCC PART 15 C	ANSI C63.10: 2013 Clause 6.10 and KDB 558074 D01	
Maximum Peak Output Power	section 15.247(b)(3)	v03r04 (Power Output	PASS
		Option 2-Method #1).	
	FCC PART 15 C	ANSI C63.10:2013 Clause	
Peak Power Spectral Density	section 15.247(e)	6.11 and KDB 558074 D01 v03r04 (PSD Option 1).	PASS
	FCC PART 15 C	ANSI C63.10:2013	
Conducted Spurious Emission	section 15.209	Clause 6.7 and KDB 558074 D01 v03r04	PASS
(30MHz to 25GHz)	&15.247(d)	000074 201 400104	1700
De diete d Ossaiose Fasionies	FCC PART 15 C	ANSI C63.10:2013 Clause	
Radiated Spurious Emission (30 MHz to 25 GHz)	section 15.209	6.4, 6.5 and 6.6 & KDB 558074 D01 v03r04	PASS
(30 1/11 12 10 23 01 12)	&15.247(d)		
	FCC PART 15 C	ANSI C63.10:2013 Clause 6.9 & KDB	
Band Edges Measurement	section 15.209	558074 D01 v03r04	PASS
3	&15.247(d)		
Conducted Emissions at Mains	FCC PART 15 C	ANSI C63.10:2013	PASS
Terminals	section 15.207	Clause 6.2	FAGG

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3 General Information

3.1 Client Information

Applicant: TCL Delonghi Home Appliances (Zhongshan) Co., Ltd.

Address of Applicant: Shenghui North Industrial District, Nantou, Zhongshan, Guangdong, P.R.China

3.2 General Description of E.U.T.

Name: Wifi module

Model No.: 5005-HBS

Trade Mark: DēLonghi

Operating Frequency: 802.11 b/g/n(HT20): 2412MHz-2462MHz

802.11b, 802.11g, 802.11n(20MHz): 11

Working	Working Frequency of Each Channel:			
channel	Frequency	channel	Frequency	
1	2412	8	2447	
2	2417	9	2452	
3	2422	10	2457	
4	2427	11	2462	
5	2432			
6	2437			
7	2442			

Channels:

Type of Modulation: DSSS, CCK, OFDM

Test software of EUT: DutApiWiFiMW30XBrdigeUart

Function: Date transimit

Antenna Type: PCB antenna, 2.2dBi Gain
Antenna connector: I-PEX MHF connector

3.3 Details of E.U.T.

EUT Power Supply: DC 5V 1A

Model No: JHD-AP006C-050100AB

Adapter: Rate Input: 100-240Vac, 50/60Hz, 0.3A

Rate Output: 5Vdc, 1000mA

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Test mode:

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List			
Test Mode	Description	Remark	
TM1	802.11b	2412MHz, 2442MHz, 2462MHz,	
TM2	802.11g	2412MHz, 2442MHz, 2462MHz,	
TM3	802.11n(20MHz)	2412MHz, 2442MHz, 2462MHz,	

Power cord: Direct plug

3.4 Description of Support Units

The EUT has been tested as an independent unit for fixed frequency by testing lab.

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3.5 Test Location

All tests were performed at:

I-Test Laboratory

1-2 floor, South Block, Building A2 , No 3 Keyan Lu, Science City, Guangzhou, Guangdong Province, P.R. China

0086-20-32209330

0000 20 022000

itl@i-testlab.com

No tests were sub-contracted.

3.6 Deviation from Standards

Biconical and log periodic antennas were used instead of dipole antennas.

3.7 Abnormalities from Standard Conditions

None.

3.8 Other Information Requested by the Customer

None.

3.9 Test Facility

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

CNAS(Lab code:L4957)

• FCC (Registration No.:935596)

• IC (Registration NO.:8368A)

3.10 Measurement Uncertainty

The below measurement uncertainties given below are based on a 95% confidence level (base on a coverage factor (k=2).)

Parameter	Uncertainty
Radio frequency	±1.06 x 10 ⁻⁷
total RF power, conducted	1.37 dB
RF power density , conducted	2.89 dB
All emissions, radiated	±3.35 dB
Temperature	±0.23 °C
Humidity	±0.3 %
DC and low frequency voltages	±0.3 %

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4 Instruments Used during Test

No.	Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Cal. Due
ITL-114	Spectrum Analyzer	Agilent	N9010A	MY51250936	2016/01/25	2017/01/25
ITL-116	Pre Amplifier	HP	8447F	3113A05905	2016/01/25	2017/01/25
ITL-117	Wideband Amplifier Super Ultra	Mini-circuits	ZVA-183- S+	469101134	2016/01/25	2017/01/25
ITL-105	Biconilog Antenna	ETS•Lindgren	3142D	00108096	2015/01/24	2018/01/24
ITL-110	Horn Antenna	A-INFOMW	JXTXLB- 10180-N	J2031090612 133	2015/01/24	2018/01/24
ITL-102	EMI Test receiver	R&S	ESCI	100910	2015/06/23	2016/06/23
ITL-103	Two-line v- network	R&S	ENV216	100120	2015/06/23	2016/06/23
ITL-115	50Ω Coaxial Cable	Mini-circuits	CBL	C001	2016/01/25	2017/01/25
ITL-100	Semi-Anechoic chamber	ETS•Lindgren	FACT3 2.0	CT09015	2013/06/17	2016/06/17
ITL-145	Loop Antenna	ZHINAN	ZN30900 A	002489	2016/01/25	2017/01/25
ITL-146	Horn Antenna	Schwarzbeck	BBHA 9170	B09806543	2015/06/23	2016/06/23
ITL-101	Shielded Room	ETS•Lindgren	8*4*3	CT09010	2015/03/09	2018/03/09
ITL-154	EMI test receiver 9kHz to 26.5GHz	R&S	ESR26	101257	2016/01/05	2017/01/05

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5 Test Results

5.1 E.U.T. test conditions

Test Voltage: AC 120V

Temperature: 23.2 -25.0 °C

Humidity: 38-50 % RH

Atmospheric Pressure: 1000 -1010 mbar

Requirements: 15.31(e): For intentional radiators, measurements of the variation of

the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be

performed using a new battery.

15.32: Power supplies and CPU boards used with personal computers and for which separate authorizations are required to be obtained shall be tested as follows: Testing shall be in accordance with the procedures

specified in Section 15.31 of this part.

Test frequencies and frequency range:

According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

According to the 15.33 (a) For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in the following table:

Number of fundamental frequencies to be tested in EUT transmit band

Frequency range in which	Number of	Location in frequency range
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1
	<u> </u>	near bottom

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Frequency range of radiated emission measurements

Lowest frequency generated	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz,
At or above 10 GHz to below	5th harmonic of highest fundamental frequency or to 100 GHz,
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz,

EUT channels and frequencies list:

Working	Working Frequency of Each Channel:			
channel	Frequency	channel	Frequency	
1	2412	8	2447	
2	2417	9	2452	
3	2422	10	2457	
4	2427	11	2462	
5	2432			
6	2437			
7	2442			

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode L	Test Mode List		
Test Mode	Description	Remark	
TM1	802.11b	2412MHz, 2442MHz, 2462MHz,	
TM2	802.11g	2412MHz, 2442MHz, 2462MHz,	
TM3	802.11n(20MHz)	2412MHz, 2442MHz, 2462MHz,	

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5.2 Antenna requirement

Standard requirement

15.203 requirement:

For intentional device. According to 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.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz bands that are used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi 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 6 dBi.

EUT Antenna

The antenna is a PCB antenna and no consideration of replacement. The best case gain of the antenna is 2.2dBi, antenna connector: I-PEX MHF connector

Test result: The unit does meet the FCC requirements.

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5.3 Occupied Bandwidth

Test Requirement: FCC Part 15 C section 15.247

(a)(2)Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5MHz, and 5725-5850 MHz bands. The minimum 6

dB bandwidth shall be at least 500 kHz.

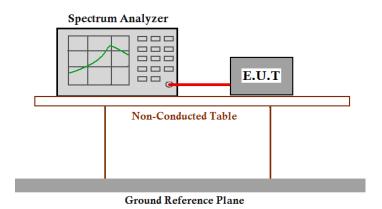
Test Method: ANSI C63.10:2013 Clause 6.9 and KDB 558074 D01 v03r04

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all

possible combinations between available modulations, channels and antenna ports (if EUT with antenna diversity architecture). Following

channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

- Remove the antenna from the EUT and then connect a low attention attenuation RF cable
 (Cable loss =0.5dB) from the antenna port to the spectrum.
- 2. Set the spectrum analyzer: RBW=100kHz. VBW = 300kHz, Sweep = auto; Detector Function = Peak. Trace = Max Hold, Set span to encompass the entire emission bandwidth of the signal.
- 3. Mark the peak power frequency and -6dB (upper and lower) power frequency.
- 4. Repeat until all the test status is investigated.
- 5. Report the worst case.

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Test result (6 dB bandwidth)

Test Mode	Frequency (MHz)	Measured 6dB bandwidth	Limit (kHz)	Result
		(MHz)		
	2412	10.96		Pass
802.11b	2442	10.95	≥500	Pass
	2462	10.84		Pass
	2412	17.11		Pass
802.11g	2442	17.17	≥500	Pass
	2462	17.12	2500	Pass
	2412	18.46		Pass
802.11n(HT20)	2442	18.42	≥500	Pass
	2462	18.36		Pass

The unit does meet the FCC requirements.

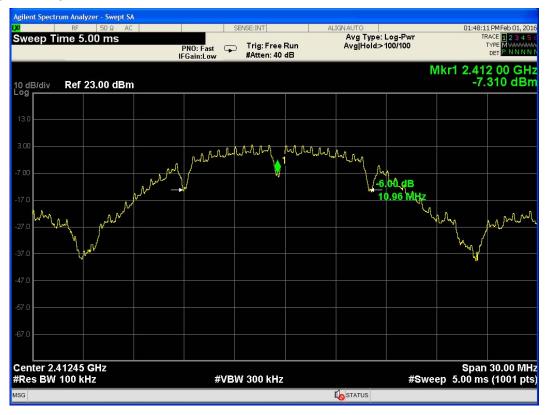
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6dB bandwidth:

Result plot as follows:

802.11b

Channel 1:2.412GHz:



Channel 7:2.442GHz:



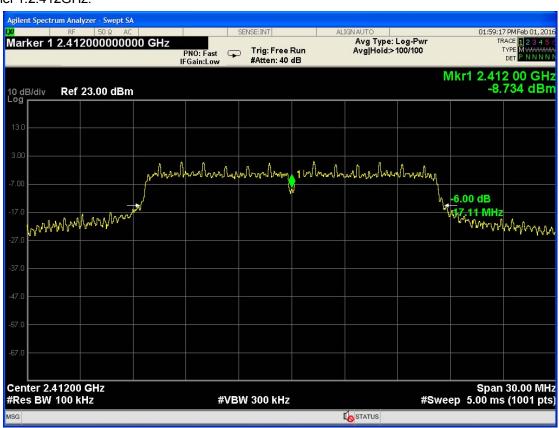
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Channel 11:2.462GHz:

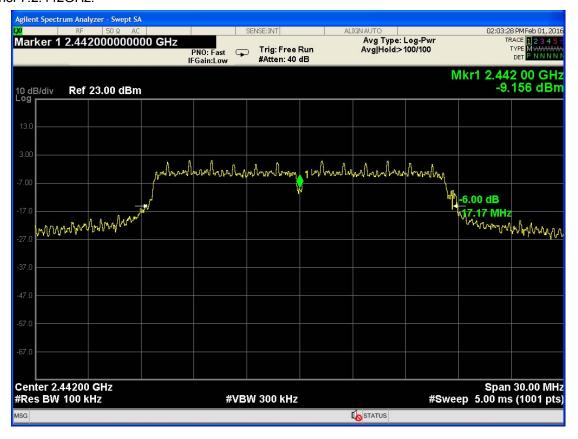


802.11g

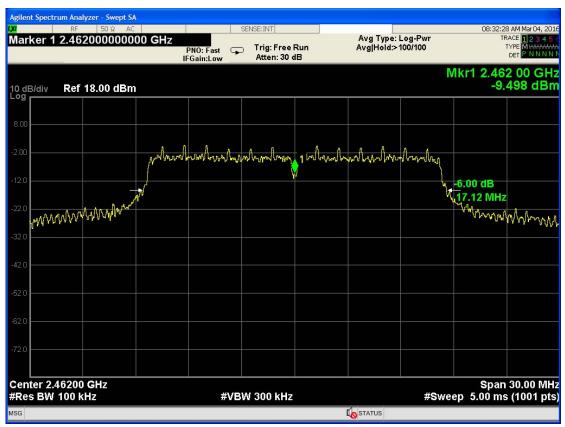
Channel 1:2.412GHz:



Channel 7:2.442GHz:



Channel 11:2.462GHz:



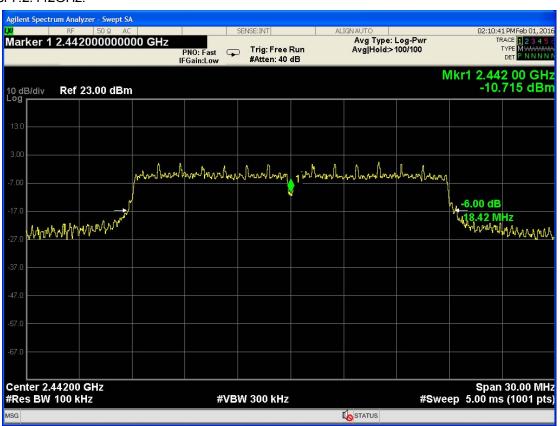
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802.11n(HT20)

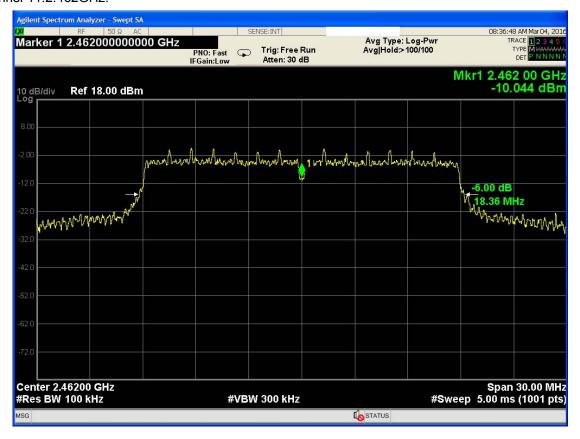
Channel 1:2.412GHz:



Channel 7:2.442GHz:



Channel 11:2.462GHz:



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5.4 Maximum Peak Output Power

Test Requirement: FCC Part 15 C section 15.247

(b)(3) For systems using digital modulation in the 902-928 MHz,

2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.

Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b) (1), (b) (2), and (b) (3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna

exceeds 6 dBi.

Test Method: ANSI C63.10:2013 Clause 6.10 and KDB 558074 D01 v03r04 (Power Output

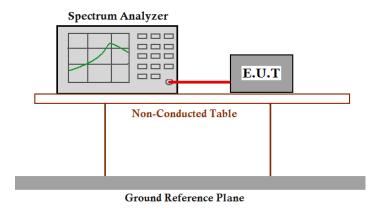
Option 2-Method #1).

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all

possible combinations between available modulations, channels and antenna ports (if EUT with antenna diversity architecture). Following

channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable

(Cable loss =0.5dB) from the antenna port to the spectrum.

- 2. Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 3. Set RBW = 1 MHz.
- 4. Set VBW ≥ 3 MHz.
- 5. Use sample detector mode if bin width (i.e., span/number of points in spectrum display) < 0.5 RBW. Otherwise use peak detector mode.

6. Use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at full control power for entire sweep of every sweep.

If the device transmits continuously, with no off intervals or reduced power intervals, the trigger may be set to "free run".

- 7. Trace average 100 traces in power averaging mode.
- 8. Compute power by integrating the spectrum across the 26 dB EBW of the signal. The integration can be performed using the spectrum analyzer's band power measurement function with band limits set equal to the EBW band edges or by summing power levels in each 1 MHz band in linear power terms. The 1 MHz band power levels to be summed can be obtained by averaging, in linear power terms, power levels in each frequency bin across the 1 MHz.
- 9. Measure the channel power of the test frequency with special test status.
- 10. Repeat until all the test status is investigated.
- 11. Report the worst case.

Test Data:

Test mode	Test Channel	Reading Power (dBm)	Output Power (dBm)	Limit (dBm)	Result
802.11b	2412	14.49	14.99		Pass
	2442	14.46	14.96		Pass
	2462	13.84	14.34		Pass
802.11g	2412	14.00	14.50	30	Pass
	2442	13.92	14.42		Pass
	2462	13.87	14.37		Pass
802.11n(HT20)	2412	14.02	14.52		Pass
	2442	13.48	13.98		Pass
	2462	13.32	13.82		Pass

Remark: 1) Output Peak Power=Reading Peak Power+Cable loss

2) Cable loss=0.5dB

The unit does meet the FCC requirements.

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Result plot as follows:

802.11 b

Channel 1: 2.412GHz:



Channel 7: 2.442GHz:



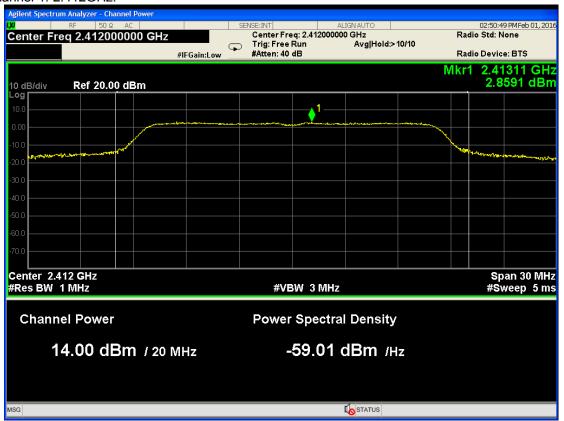
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Channel 11: 2.462GHz:



802.11 g

Channel 1: 2.412GHz:



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Channel 7: 2.442GHz:



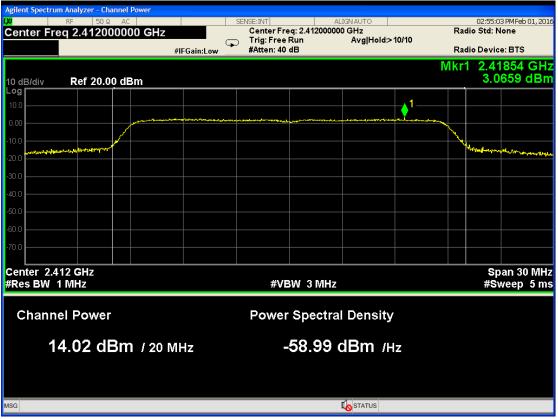
Channel 11: 2.462GHz:



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802.11 n (HT20)

Channel 1: 2.412GHz:



Channel 7: 2.442GHz:



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Channel 11: 2.462GHz:



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5.5 Peak Power Spectral Density

Test Requirement: FCC Part 15 C section 15.247

(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Method: ANSI C63.10:2013 Clause 6.11 and KDB 558074 D01 v03r04 (PSD Option

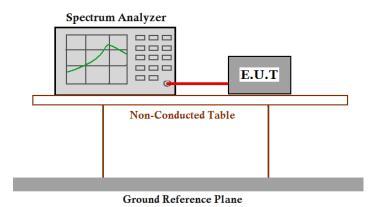
1).

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, channel and

antenna ports (if EUT with antenna diversity architecture). Following

channel(s) was (were) selected for the final test as listed below.

Test Configuration:



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Test Procedure:

Remove the antenna from the EUT and then connect a low attention attenuation RF cable
 (Cable loss =0.5 dB) from the antenna port to the spectrum analyzer or power meter.

- 2. Set the spectrum analyzer:
 - a) Set CENTER FREQUENCY = Frequency from Power Spectral Density Test Matrix (see 6.10.2)
 - b) Set SPAN = 1.5 times the DTS bandwidth,
 - c) Set REFERENCE LEVEL = 23 dBm
 - d) Set ATTENUATION = 0 dB (add internal attenuation, if necessary)
 - e) Set SWEEP TIME = Coupled
 - f) Set RBW = 3 kHz
 - g) Set VBW = 10 kHz
 - h) Set DETECTOR = Peak
 - i) Set MKR = Center Frequency
 - j) Set TRACE = CLEAR WRITE

Place the radio in continuous transmit mode. Set the TRACE to MAX HOLD, and after the trace stabilizes, the TRACE to VIEW. Set the marker on the peak of the signal and then adjust the center frequency of the spectrum analyzer to the marker frequency.

After viewing the EUT waveform on the spectrum analyzer, perform the following spectrum analyzer functions to capture the trace:

Set SWEEP TIME = 3 s

Set TRACE = MAX HOLD

Set MKR = PEAK SEARCH

- 3. Measure the Power Spectral Density of the test frequency with special test status.
- 4. Repeat until all the test status is investigated.
- 5. Report the worse case.

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Test result:

Test mode	Test Channel	Reading Value (dBm/3kHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
802.11b	2412	-10.646	-10.146		Pass
	2442	-11.044	-10.544		Pass
	2462	-10.392	-9.892		Pass
802.11g	2412	-15.099	-14.599	8	Pass
	2442	-15.388	-14.888		Pass
	2462	-13.349	-12.849		Pass
802.11n(HT20)	2412	-14.433	-13.933		Pass
	2442	-14.652	-14.152		Pass
	2462	-14.867	-14.367		Pass

Remark: 1) Output Peak Power=Reading Peak Power+Cable loss 2) Cable loss=0.5dB

The unit does meet the FCC requirements.

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Result plot as follows:

802.11b

Channel 1:2.412 GHz:



Channel 7:2.442GHz:



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Channel 11:2.462 GHz:



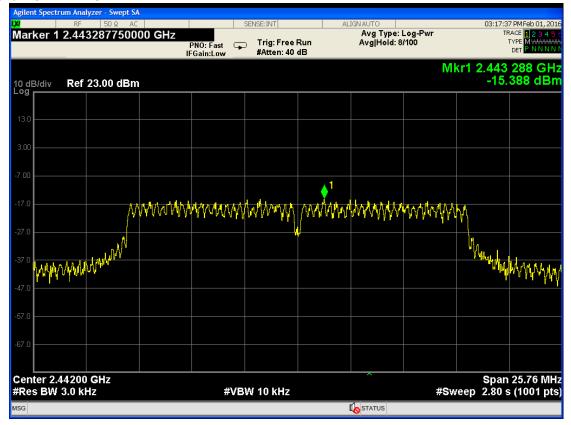
802.11g

Channel 1:2.412 GHz:

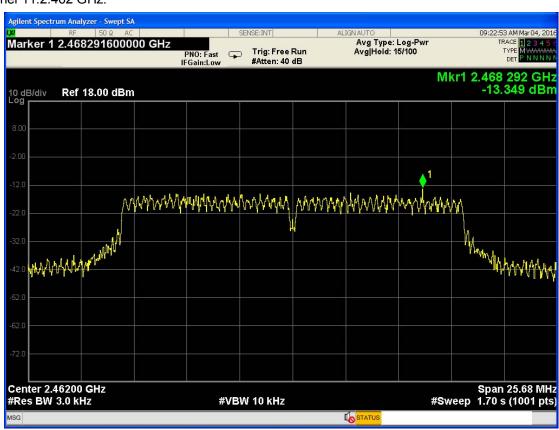


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Channel 7:2.442GHz:



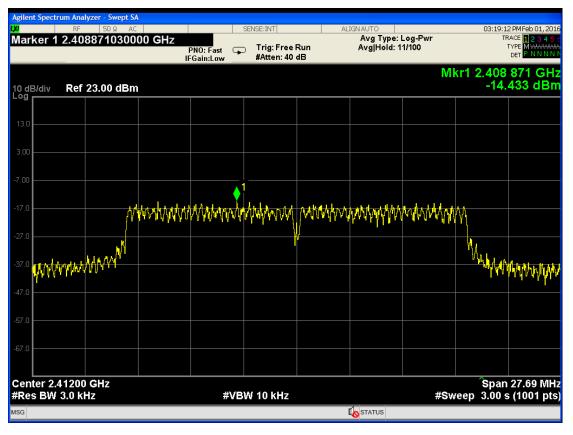
Channel 11:2.462 GHz:



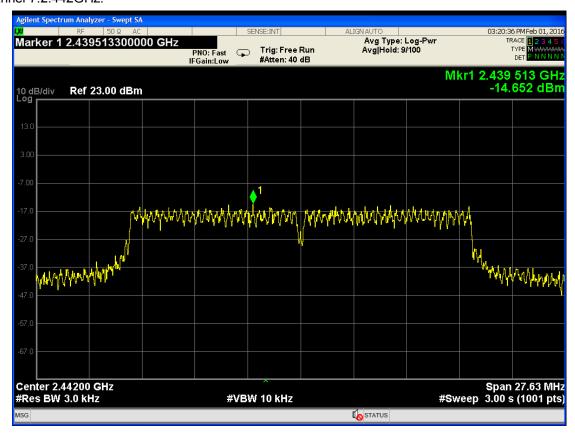
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802.11n (HT20)

Channel 1:2.412 GHz:



Channel 7:2.442GHz:



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Channel 11:2.462 GHz:



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5.6 Conducted Spurious Emissions

Test Requirement: FCC Part 15 C section 15.247

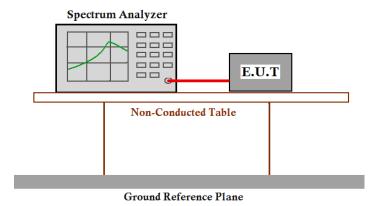
(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating. the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Based on either an RF conducted or a radiated measurement. Provided the transmitter demonstrates compliance with the peak conducted power limits.

Test Method: ANSI C63.10:2013 Clause 6.7 and KDB 558074 D01 v03r04

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all

possible combinations between available modulations, channel and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

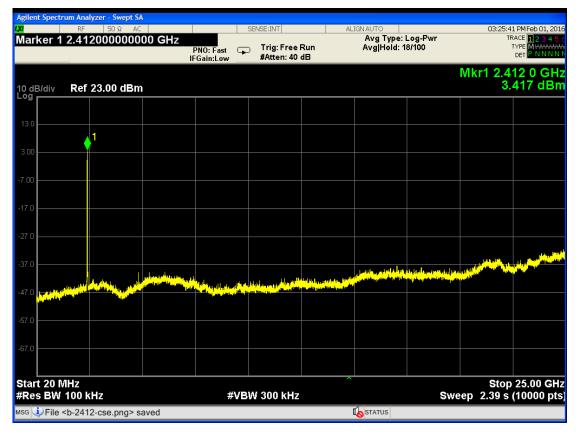
- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer or power meter.
- 2. Set the spectrum analyzer: RBW=100 KHz, VBW = 300KHz. Sweep = auto; Detector Function = Peak. Trace = Max Hold, Scan up through 10th harmonic.
- 3. Measure the Conducted Spurious Emissions of the test frequency with special test status.
- 4. Repeat until all the test status is investigated.
- 5. Report the worse case.

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Result plot as follows:

802.11b

Channel 1: 2.412 GHz

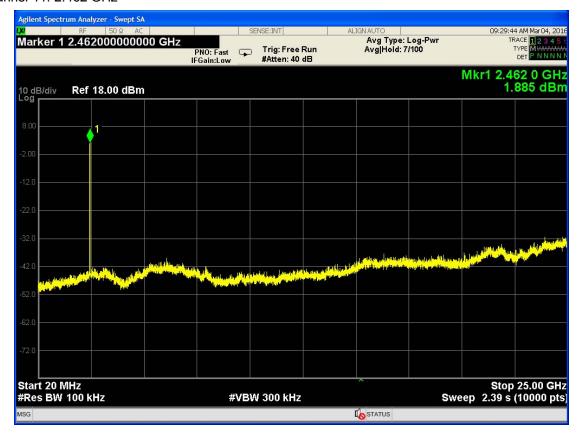


Channel 7: 2.442 GHz



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Channel 11: 2.462 GHz



802.11g

Channel 1: 2.412 GHz



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Channel 7: 2.442 GHz



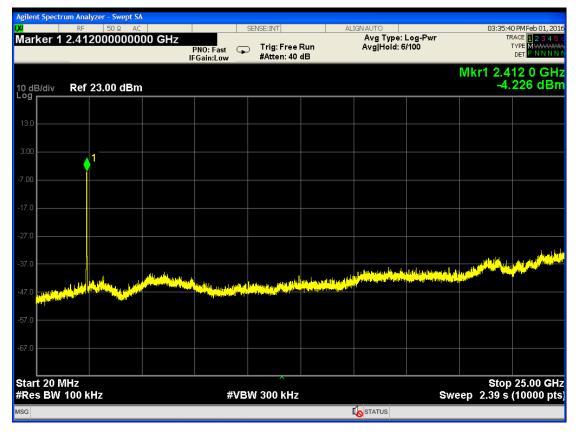
Channel 11: 2.462 GHz



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802.11n(HT20)

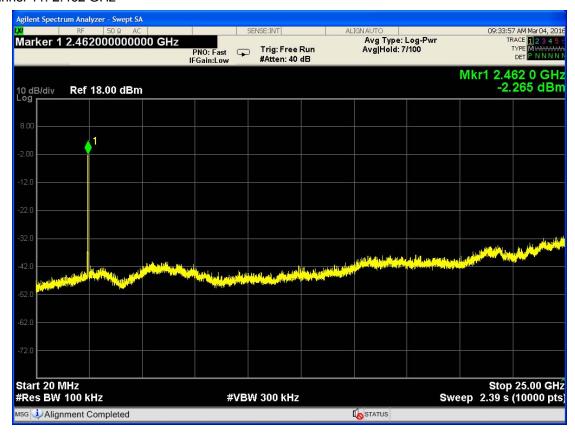
Channel 1: 2.412 GHz



Channel 7: 2.442 GHz



Channel 11: 2.462 GHz



The unit does meet the FCC requirements.

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5.7 Radiated Spurious Emissions

Test Requirement: FCC Part 15 C section 15.247

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating. The radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that Contains the highest level of the desired power, based on either an RF

conducted or a radiated measurement, and provided the transmitter demonstrates compliance with the peak conducted power limits.

Test Method: ANSI C63.10:2013 Clause 6.4, 6.5 and 6.6 & KDB 558074 D01 v03r04

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all

possible combinations between available modulations, channels and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Detector: For PK value:

RBW = 1 MHz for $f \ge 1$ GHz, 100 kHz for f < 1 GHz

VBW ≥ RBW Sweep = auto

Detector function = peak

Trace = max hold

For AV value:

RBW = 1 MHz for f ≥ 1 GHz, 100 kHz for f <1 GHz, 9kHz for <30MHz

VBW =10Hz

Sweep = auto

Detector function = peak

Trace = max hold

15.209 Limit: 40.0 dBµV/m between 30MHz & 88MHz

43.5 dBµV/m between 88MHz & 216MHz

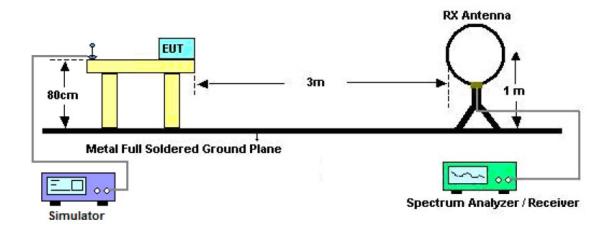
46.0 dBµV/m between 216MHz & 960MHz

54.0 dBµV/m above 960MHz

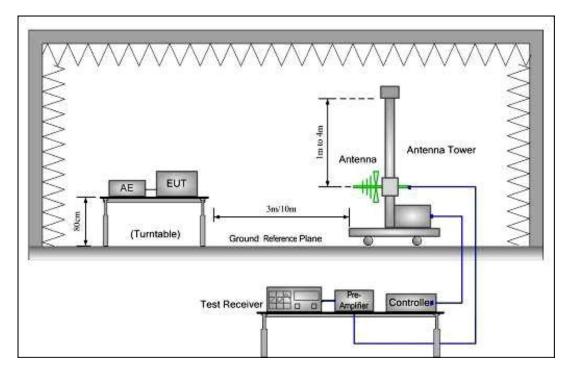
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Test Configuration:

1) 9kHz to 30MHz emissions:

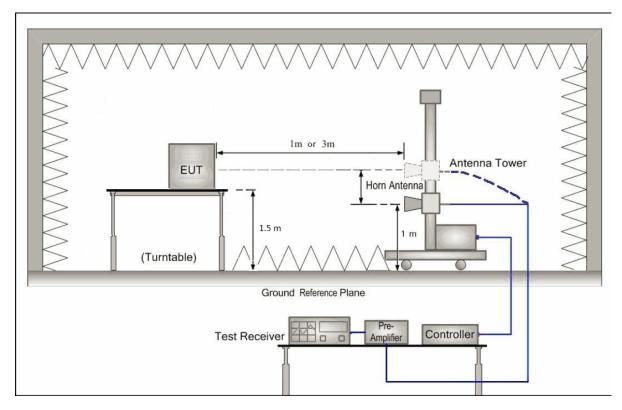


2) 30 MHz to 1 GHz emissions:



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3) 1 GHz to 40 GHz emissions:



Test Procedure: (1) The receiver was scanned from 0.009MHz to 25GHz.When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pretest three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only. The worst case emissions were reported.

- (2) Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.
- (3) Pre-test under all modes below 1GHz, choose the worst case mode (802.11b) record On the report.

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5.7.1 Harmonic and other spurious emissions

Test at Channel 1 (2.412 GHz) in transmitting status

9kHz~30MHz Test result

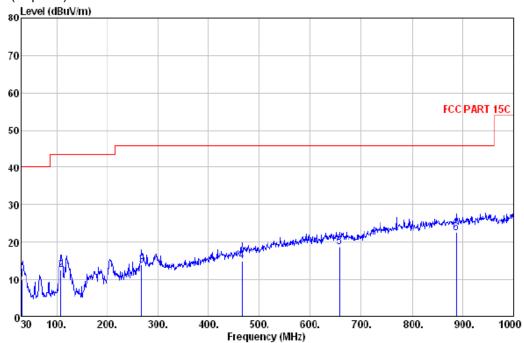
The Low frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not report

30 MHz~1 GHz Spurious Emissions .Quasi-Peak Measurement

Horizontal:

Peak scan

Level (dBµV/m)



Quasi-peak measurement

No.	Freq	Level	Remark	Anterna Factor	Cable Loss	Limit Line	Margin	A/pos	T/pos
	MHz	dBuV∕n		dB/m	ďΒ	dBuV/n	ďВ	cm	deg
1	31.940	10.07	QP	16.83	0.65	40.00	-29.93	200	21
2	109, 540	12.40	QP	8, 50	1.23	43.50	-31.10	200	59
3	268, 620	13.73	QΡ	12.84	2.00	46.00	-32.27	100	256
4	466, 500	14.9D	QP	17.76	2.68	46.00	-31.10	150	334
5	658, 560	18.61	QP	20, 73	3.22	46.00	-27.39	200	218
ő	886. 510	22.53	QΡ	23. 33	3.76		-23.47	150	204

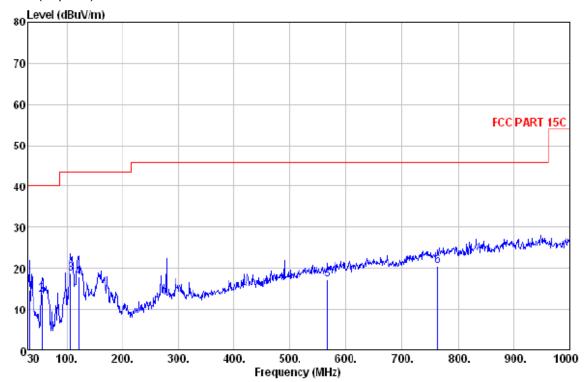
Level=Read Level + Antenna Factor + Cable Loss

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Vertical:

Peak scan

Level (dBµV/m)



Quasi-peak measurement

No.	Freq	Level	Remark	Anterna Factor	Cable Loss	Limit Line	Margin	A/pos	T/pos
	MHz	dBuV∕n		dB/m	dВ	dBuV/n	dВ	cm	deg
						40.00			
1	33, 880	14.77	QP	15.67	0.66	40.00	-25.23	100	204
2	56, 190	13.54	QP	7. 27	0.86	40.00	-26.46	100	87
3	107.600	18.69	QΡ	8.50	1.22	43.50	-24.81	15D	254
4	121.180	17.93	QP	7.70	1.30	43.50	-25.57	100	104
5	567, 380	17.14	QP	19.52	2.97	46.00	-28.86	100	201
6	162, 350	20.49	QΡ	22.02	3.47	46.00	-25.51	200	24

Level=Read Level + Antenna Factor + Cable Loss

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1~25 GHz Harmonics & Spurious Emissions. Peak & Average Measurement

Peak Measurement:

Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Antenna polarization
4824.000	34.32	9.59	27.62	36.35	52.64	74.00	V
7236.000	34.88	12.15	27.33	35.32	55.02	74.00	٧
9648.000	37.72	14.41	27.14	35.95	60.94	74.00	V
4824.000	34.32	9.59	27.62	36.03	52.32	74.00	Н
7236.000	34.88	12.15	27.33	35.77	55.47	74.00	Н
9648.000	37.72	14.41	27.14	37.21	62.20	74.00	Н

Average Measurement:

Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Antenna polarization
4824.000	34.32	9.59	27.62	25.58	41.87	54.00	V
7236.000	34.88	12.15	27.33	25.09	44.79	54.00	V
9648.000	37.72	14.41	27.14	24.43	49.42	54.00	V
4824.000	34.32	9.59	27.62	24.31	40.60	54.00	Н
7236.000	34.88	12.15	27.33	25.53	45.23	54.00	Н
9648.000	37.72	14.41	27.14	24.42	49.41	54.00	Н

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Test at Channel 7 (2.442 GHz) in transmitting status

9 kHz~30MHz Test result

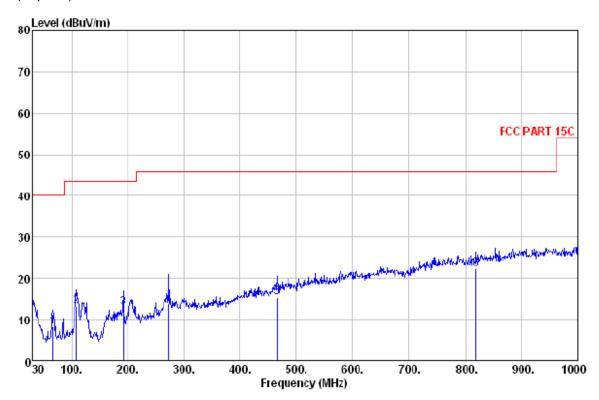
The Low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not report

30 MHz~1 GHz Spurious Emissions .Quasi-Peak Measurement

Horizontal:

Peak scan

Level (dBµV/m)



Quasi-peak measurement

No.	Freq	Level	Remark	Anterna Factor	Cable Loss	Limit Line	Margin	A/pos	T/pos
	MHz	$dBu \mathbb{V}/n$		dB/m	dB	dBuV/n	₫B	cm	deg
1	66, 860	8. 1B	QP	6.94	0.95	40.00	-31.82	200	14
1			-						
2	108, 570	13.16	QP	8.50	1.22	43.50	-30.34	100	264
3	191.990	12.94	QΡ	8.66	1.67	43.50	-30.56	100	326
4	273.470	13.90	QP	12.72	2.02	46.00	-32.10	300	215
5	466, 500	15.44	QP	17.76	2.68	46.00	-30.56	200	224
6	818.610	22.27	QΡ	22.93	3.61	46.00	-23.73	221	201

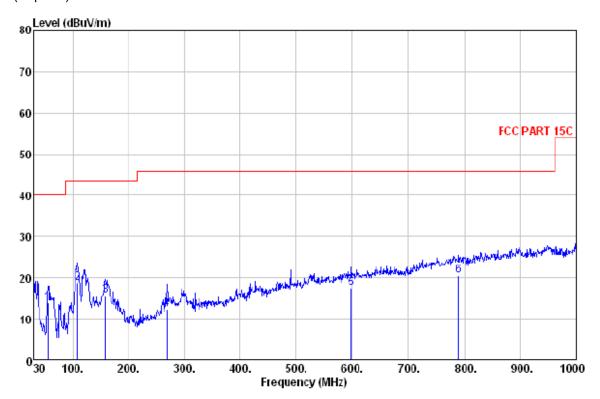
Level=Read Level + Antenna Factor + Cable Loss

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Vertical:

Peak scan

Level (dBµV/m)



Quasi-peak measurement

No.	Freq	Level	Remark	Antenna Factor	Cable Loss	Limit Line	Margin	A/pos	T/pos
	MHz	dBuV/m		dB/m	dB	dBuV/n	dВ	cm	deg
1	56, 190	13.92	QP	7. 27	0.86	40.00	-26.08	100	20
2	109, 540	18.66	QP	8.50	1.23	43.50	-24.84	200	204
3	158. 040	15.52	QP	7. 72	1.50	43.50	-27.98	100	114
4	269, 590	12.26	QP	12.95	2.01	46.00	-33.74	100	214
5	598.420	1T.4D	QP	19.86	3.05	46.00	-28.60	200	203
6	188, 540	20.51	QP	22.46	3.54	46.00	-25.49	200	214

Level=Read Level + Antenna Factor + Cable Loss

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1~25 GHz Harmonics & Spurious Emissions. Peak & Average Measurement

Peak Measurement:

Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Antenna polarization
4884.000	34.37	9.66	27.61	36.07	52.49	74.00	V
7326.000	35.07	12.23	27.33	35.97	55.94	74.00	V
9768.000	37.91	14.49	27.13	35.99	61.26	74.00	V
4884.000	34.37	9.66	27.61	34.89	51.31	74.00	Н
7326.000	35.07	12.23	27.33	35.57	55.54	74.00	Н
9768.000	37.91	14.49	27.13	33.97	59.24	74.00	Н

Average Measurement:

Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Antenna polarization
4884.000	34.37	9.66	27.61	24.75	41.17	54.00	V
7326.000	35.07	12.23	27.33	24.52	44.49	54.00	V
9768.000	37.91	14.49	27.13	23.89	49.16	54.00	V
4884.000	34.37	9.66	27.61	25.09	41.51	54.00	Н
7326.000	35.07	12.23	27.33	24.64	44.61	54.00	Н
9768.000	37.91	14.49	27.13	24.23	49.50	54.00	Н

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Test at Channel 11 (2.462 GHz) in transmitting status

9kHz~30MHz Test result

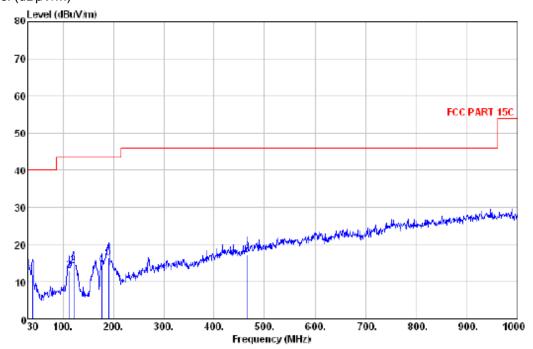
The Low frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not report

30 MHz~1 GHz Spurious Emissions .Quasi-Peak Measurement

Horizontal:

Peak scan

Level (dBµV/m)



Quasi-peak measurement

No.	Freq	Level	Remark	Antenna Factor	Cable Loss	Linit Line	Margin	L /pos	I/pos
	IHz	$dBu\mathbb{V}/n$		dB/m	dB	dBuV/m	dВ	em.	deg
1 2 3 4	39.700 112.450 121.180 177.440	12.05 13.02 14.15 14.54	ସP ସP ସP ସP	12.26 8.35 7.70 8.25	0.71 1.25 1.30 1.60	43, 50 43, 50 43, 50	-27.95 -30.48 -29.35 -28.96	200 150 200 188	214 24 36 200
5 6	190. 050 466. 500	16.45 17.09	ରP ର୍P	8.89 17.76	1.66 2.68		-27, 05 -28, 91	300 100	254 145

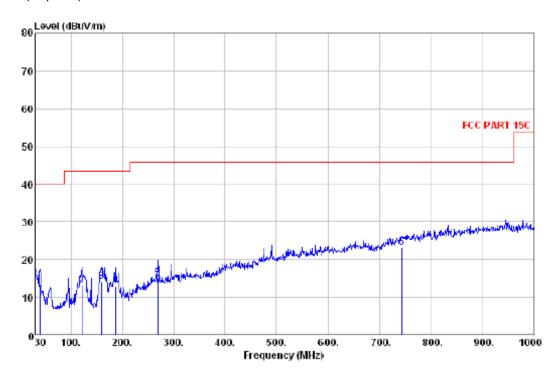
Level=Read Level + Antenna Factor + Cable Loss

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Vertical:

Peak scan

Level (dBµV/m)



Quasi-peak measurement

No.	Freq	Level	Remark	Antenna Factor	Cable Loss	Linit Line	Margin	\mathcal{N} pos	I/pos
	m HHz	dBuV/n		dB/m	dB	dBuV/m	dВ	em.	deg
1	39, 700	13.43	QP	12.26	0.71	40.DO	-26.57	100	256
Ž	121, 180	13.11	ο̈́Ρ	7.7D	1.3D		-30, 39	100	26
3	159, 010	13.98	Peak	7.76	1.51	43.50	-29.52	158	33
4	187. 140	12.84	QP	8.56	1.65	43.50	-30, 66	100	69
5	269, 590	14.92	QP	12.95	2.D1	46.DO	-31.08	200	254
6	T41.980	23, 23	ΩP	21.90	3.42	46. DO	-22.77	100	239

Level=Read Level + Antenna Factor + Cable Loss

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1~25 GHz Harmonics & Spurious Emissions. Peak & Average Measurement

Peak Measurement:

Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Antenna polarization
4924.000	34.35	9.62	27.61	35.14	51.50	74.00	V
7286.000	35.01	12.21	27.32	34.26	54.16	74.00	V
9848.000	37.93	14.50	27.12	34.86	60.17	74.00	V
4924.000	34.35	9.62	27.61	36.33	52.69	74.00	Н
7286.000	35.01	12.21	27.32	35.92	55.82	74.00	Н
9848.000	37.93	14.50	27.12	37.36	62.67	74.00	Н

Average Measurement:

Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBµV)	Emission Level (dBµV/m)	Limit (dBµV/m)	Antenna polarization
4924.000	34.35	9.62	27.61	22.89	39.25	54.00	V
7286.000	35.01	12.21	27.32	24.01	43.91	54.00	V
9848.000	37.93	14.50	27.12	22.98	48.29	54.00	V
4924.000	34.35	9.62	27.61	23.16	39.52	54.00	Н
7286.000	35.01	12.21	27.32	23.36	43.26	54.00	Н
9848.000	37.93	14.50	27.12	24.09	49.40	54.00	Н

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The field strength is calculated by adding the Antenna Factor. Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), the amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.

Hence there no other emissions have been reported.

Remark:

- 1) .For this intentional radiator operates below 25 GHz. The spectrum shall be investigated to the tenth harmonics of the highest fundamental frequency. And above the third harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 3rd harmonic.
- 2). As shown in Section, for frequencies above 1000 MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.
- 3). The test only perform the EUT in transmitting status since the test frequencies were over 1GHz only required transmitting status.

Test result: The unit does meet the FCC requirements.

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5.8 Radiated Emissions which fall in the restricted bands

Test Requirement: FCC Part 15 C section 15.247

(d) In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission

limits specified in Section 15.209(a) (see Section 15.205(c)).

Test Method: ANSI C63.10:2013 Clause 6.4, 6.5 and 6.6 & KDB 558074 D01 v03r04

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all

possible combinations between available modulations, channels and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test site: Measurement Distance: 3m (Semi-Anechoic Chamber)

Limit: 40.0 dBµV/m between 30MHz & 88MHz;

43.5 dBµV/m between 88MHz & 216MHz;

46.0 dBµV/m between 216MHz & 960MHz;

54.0 dBµV/m above 960MHz.

Detector: For PK value:

RBW = 1 MHz for $f \ge 1$ GHz, 100 kHz for f < 1 GHz

VBW ≥ RBW Sweep = auto

Detector function = peak

Trace = max hold

For AV value:

RBW = 1 MHz for $f \ge 1$ GHz, 100 kHz for f < 1 GHz

VBW = 10Hz

Sweep = auto

Detector function = peak

Trace = max hold

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Section 15.205 Restricted bands of operation.

(a) Except as shown in paragraph (d) of this section. Only spurious emissions are permitted in any of the frequency bands listed below:

PALL-	MII-	MII-	CUE
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	
13.36 - 13.41	322 - 335.4		

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Test Result:

Pre-test under all modes, choose the worst case mode (802.11b) record On the report.

Test at Channel 1 (2.412 GHz) in transmitting status

Antenna polarization: Vertical

Frequency (MHz)	Antenna factors (dB/m)	Cable loss(dB)	Preamp factor(dB)	Peak Reading Level (dBµV)	Average Reading Level (dBµV)	Peak Emission Level (dBµV/m)	Average Emission Level (dBµV/m)
2310.000	26.65	6.45	27.78	33.76	23.65	39.08	28.97
2390.000	26.56	6.46	27.79	32.07	24.08	37.30	29.31
2500.000	25.70	6.62	27.80	34.11	23.73	38.63	28.25
2483.500	25.79	6.61	27.80	34.64	23.24	39.24	27.84

Antenna polarization: Horizontal

Frequency (MHz)	Antenna factors (dB/m)	Cable loss(dB)	Preamp factor(dB)	Peak Reading Level (dBµV)	Average Reading Level (dBµV)	Peak Emission Level (dBµV/m)	Average Emission Level (dBµV/m)
2310.000	26.65	6.45	27.78	33.75	22.08	39.07	27.40
2390.000	26.56	6.46	27.79	33.07	24.42	38.30	29.65
2500.000	25.70	6.62	27.80	34.21	22.64	38.73	27.16
2483.500	25.79	6.61	27.80	34.89	23.32	39.49	27.92

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Test at Channel 7 (2.442 GHz) in transmitting status

Antenna polarization: Vertical

Frequency (MHz)	Antenna factors (dB/m)	Cable loss(dB)	Preamp factor(dB)	Peak Reading Level (dBµV)	Average Reading Level (dBµV)	Peak Emission Level (dBµV/m)	Average Emission Level (dBµV/m)
2310.000	26.65	6.45	27.78	34.99	23.97	40.31	29.29
2390.000	26.56	6.46	27.79	35.02	24.61	40.25	29.84
2500.000	25.70	6.62	27.80	34.07	23.88	38.59	28.40
2483.500	25.79	6.61	27.80	35.22	23.04	39.82	27.64

Antenna polarization: Horizontal

Frequency (MHz)	Antenna factors (dB/m)	Cable loss(dB)	Preamp factor(dB)	Peak Reading Level (dBµV)	Average Reading Level (dBµV)	Peak Emission Level (dBµV/m)	Average Emission Level (dBµV/m)
2310.000	26.65	6.45	27.78	34.98	23.08	40.30	28.40
2390.000	26.56	6.46	27.79	34.46	22.53	39.69	27.76
2500.000	25.70	6.62	27.80	33.13	23.46	37.65	27.98
2483.500	25.79	6.61	27.80	34.22	22.24	38.82	26.84

Test at Channel 11 (2.462 GHz) in transmitting status

Antenna polarization: Vertical

Frequency (MHz)	Antenna factors (dB/m)	Cable loss(dB)	Preamp factor(dB)	Peak Reading Level (dBµV)	Average Reading Level (dBµV)	Peak Emission Level (dBµV/m)	Average Emission Level (dBµV/m)
2310.000	26.65	6.45	27.78	33.98	22.14	39.30	27.46
2390.000	26.56	6.46	27.79	33.21	23.09	38.44	28.32
2500.000	25.70	6.62	27.80	34.02	22.75	38.54	27.27
2483.500	25.79	6.61	27.80	34.23	22.56	38.83	27.16

Antenna polarization: Horizontal

Frequency (MHz)	Antenna factors (dB/m)	Cable loss(dB)	Preamp factor(dB)	Peak Reading Level (dBµV)	Average Reading Level (dBµV)	Peak Emission Level (dBµV/m)	Average Emission Level (dBµV/m)
2310.000	26.65	6.45	27.78	34.98	23.24	40.30	28.56
2390.000	26.56	6.46	27.79	34.21	23.63	39.44	28.86
2500.000	25.70	6.62	27.80	33.25	22.73	37.77	27.25
2483.500	25.79	6.61	27.80	33.24	24.13	37.84	28.73

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5.9 Band Edges Requirement

Test Requirement: FCC Part 15 C section 15.247

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating. The radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. Based on either an RF conducted or a radiated measurement. Provided the transmitter demonstrates compliance with the peak conducted power limits.

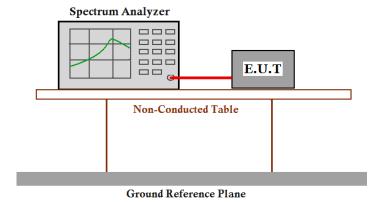
Frequency Band: 2400 MHz to 2483.5 MHz

Test Method: ANSI C63.10:2013 Clause 6.9 & KDB 558074 D01 v03r04

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all

possible combinations between available modulations, channels and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer or power meter.
- 2. Set RBW=100 kHz, VBW=300 KHz, suitable frequency span including 1000 kHz bandwidth from band edge.
- 3. Measure the Conducted Spurious Emissions and Radiated Emissions of the test frequency with special test status.
- 4. Repeat until all the test status is investigated.
- 5. Report the worse.

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Test result with plots as follows:

The band edges was measured and recorded Result:

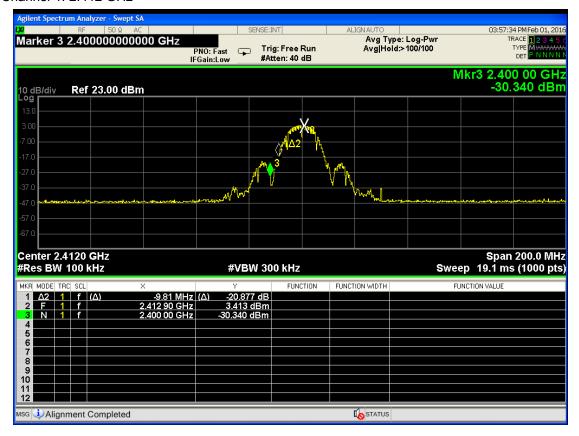
The Lower Edges attenuated more than 20dB.

The Upper Edges attenuated more than 20dB.

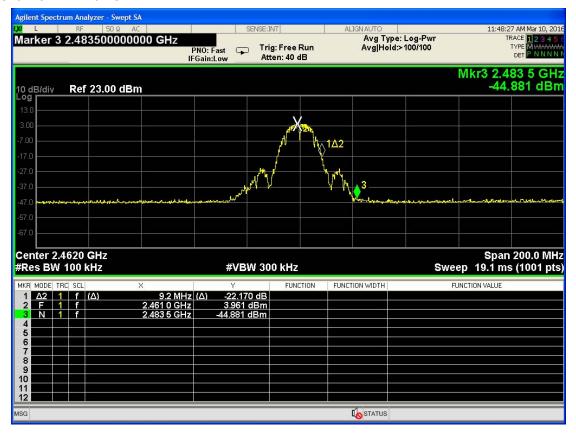
Result plot as follows:

802.11b

Channel 1: 2.412 GHz

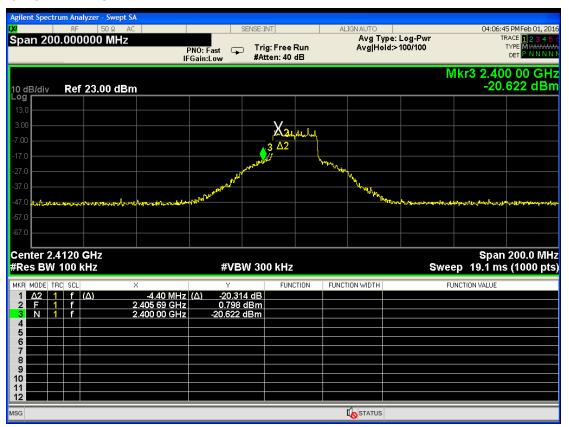


Channel 11: 2.462 GHz

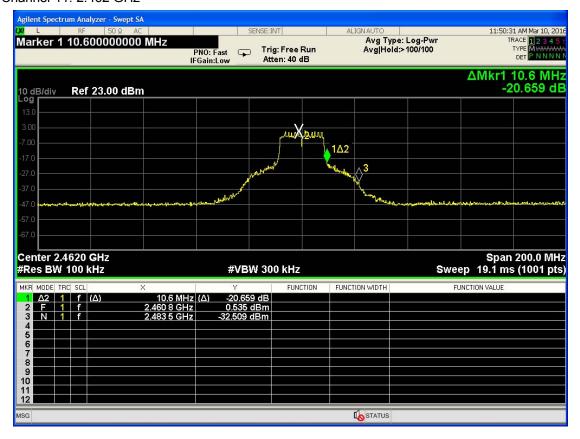


802.11g

Channel 1: 2.412 GHz

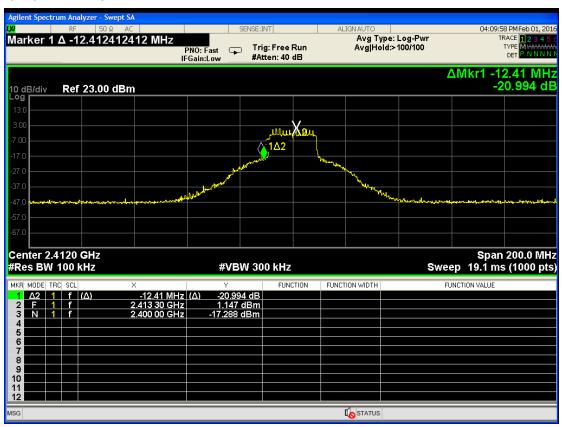


Channel 11: 2.462 GHz



802.11n(HT20)

Channel 1: 2.412 GHz



Channel 11: 2.462 GHz



Test result: The unit does meet the FCC requirements.

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5.10 Conducted Emissions at Mains Terminals 150 kHz to 30MHz

Test Requirement: FCC Part 15 C section 15.207

Test Method: ANSI C63.10:2013 Clause 6.2

Frequency Range: 150 kHz to 30 MHz

Detector: Peak for pre-scan (9 kHz Resolution Bandwidth)

Test Limit

Limits for conducted disturbance at the mains ports of class B

- Eroguenov Bango	Class B Limit dB(μV)				
Frequency Range	Quasi-peak	Average			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5	56	46			
5 to 30	60	50			

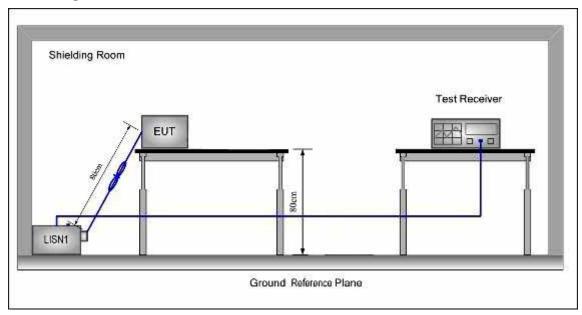
NOTE 1 The limit decreases linearly with the logarithm of the frequency in the range 0,15 MHz to 0,50 MHz.

EUT Operation:

Test in normal operating mode. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, channels and antenna ports (if EUT with antenna diversity architecture).

Test Configuration:



Test procedure:

- 1. The mains terminal disturbance voltage test was conducted in a shielded room.
- 2. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu H + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 4. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0,4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0,8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0,8 m from the LISN 2.

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5.10.1 Measurement Data

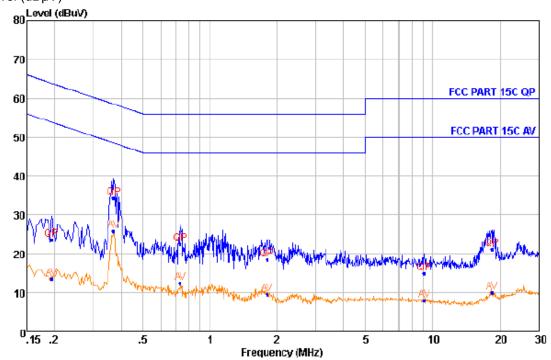
An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected. For EUT the communicating was worst case mode.

The following Quasi-Peak and Average measurements were performed on the EUT Live line

Peak Scan:

Level (dBµV)



Quasi-peak and Average measurement

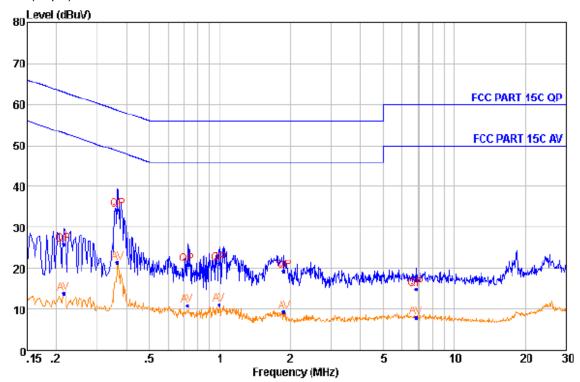
NO.	Freq MHz	Level dBuY	Remark	LISM Factor dB	Cable Loss dB	Limit Line dBuV	Over Limit dB
1	0.194	23.66	QΡ	9.53	0.40	63.84	-40.18
2	0.194	13.66	Average	9.53	0.40	53.84	-40.18
3	0.369	34.39	QP	9.40	0.43	58.52	-24.13
4	0.369	25.14	Äverage	9.40	0.43	48.52	-22.78
5	0.735	22.48	QP	9.27	0.45	56.00	-33.52
6	0.735	12.48	Average	9. 27	0.45	46.00	-33, 52
7	1.81D	18.52	QP	9.31	0.49	56.OD	-37.48
8	1.810	9.52	Äverage	9.31	0.49	46.00	-36.48
9	9.107	15.00	QP	9.35	0.55	60.00	-45.00
10	9.107	8.00	Average	9.35	0.55	50.00	-42.00
11	18.426	21.14	QP	9.65	0.58	60.00	-38.86
12	18.426	10.14	Äverage	9.65	0.58	50.00	-39.86

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Neutral Line

Peak Scan:

Level (dBµV)



Quasi-peak and Average measurement

NO.	Freq MHz	Level dBuY	Remark	LISN Factor	Cable Loss dB	Limit Line dBuV	Over Limit dB
1 2 3 4 5 6 7 8 9 10 11	0.214 0.214 0.365 0.365 0.724 0.724 0.994 0.994 1.888 1.888 6.878	25. T4 13. T4 34. 37 21. 37 20. 96 10. 96 21. 18 11. 18 19. 28 9. 28 14. 96 7. 96	QP Average	9.37 9.37 9.36 9.36 9.36 9.37 9.37 9.37 9.39	0.40 0.40 0.43 0.43 0.45 0.45 0.47 0.47 0.49 0.49 0.54	63. 05 53. 05 58. 61 48. 61 56. 00 46. 00 46. 00 46. 00 46. 00 60. 00	-37. 31 -39. 31 -24. 24 -27. 24 -35. 04 -35. 04 -34. 82 -34. 82 -36. 72 -36. 72 -45. 04 -42. 04