

FCC TEST REPORT

Product Name: Mobile Phone

Trade Mark: MI

Model No.: MDG2

Report Number: 170615001RFC-3

Test Standards: FCC 47 CFR Part 15 Subpart C

FCC ID: 2AFZZ-XMSG2

Test Result: PASS

Date of Issue: July 11, 2017

Prepared for:

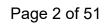
Xiaomi Communications Co., Ltd.
The Rainbow City of China Resources, NO.68, Qinghe Middle Street,
Haidian District, Beijing, China

Prepared by:

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	\bigcap			
Approved by:		Date:	July 11, 2017	
	Billy Li			
	Technical Director			





Version

Version No.	Date	Description
V1.0	July 11, 2017	Original





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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	Xiaomi Communications Co., Ltd.		
Address of Applicant:	The Rainbow City of China Resources, NO.68, Qinghe Middle Street, Haidian District, Beijing, China		
Manufacturer:	Xiaomi Communications Co., Ltd.		
Address of Manufacturer:	The Rainbow City of China Resources, NO.68, Qinghe Middle Street, Haidian District, Beijing, China		

1.2 EUT INFORMATION

1.2.1 General Description of EUT

.z.i General Descripti	011 01 20 1			
Product Name:	Mobile Phone			
Model No.:	MDG2			
Add. Model No.:	NA			
Trade Mark:	MI			
DUT Stage:	Production Unit			
	GSM Bands:	GSM850/1900		
	UTRA Bands:	Band II/ Band V		
	E LITDA Dandar	FDD Band 4/ Band 5/ Ban	nd 7	
	E-UTRA Bands:	TDD Band 38		
	2.4 GHz ISM Band:	IEEE 802.11b/g/n		
EUT Supports Function:		Bluetooth: V3.0+HS & V4.0 LE		
	5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz	IEEE 802.11a/n/ac	
		5 250 MHz to 5 350 MHz	IEEE 802.11a/n/ac	
		5 470 MHz to 5 725 MHz	IEEE 802.11a/n/ac	
		5 725 MHz to 5 850 MHz	IEEE 802.11a/n/ac	
	BSR:	VHF Band II	FM	
Software Version:	QL1515-tissot			
Hardware Version:	P3A			
IMEI Code:	865181030010724, 865181030010732			
Sample Received Date:	June 10, 2017			
Sample Tested Date:	July 7, 2017 to July 10, 2017			



1.2.2 Description of Accessories

.z.z bescription				
Adapter(1)				
Trade Mark:	MI			
Model No.:	MDY-08-EZ			
Input:	100-240 V~50/60 Hz 0.35 A Max			
Output:	5.0 V == 2.0 A			
AC Cable:	N/A			
DC Cable:	1.0 Meter, Shielded without ferrite			
Manufacturer:	Dongguan Aohai Power Technology Co., Ltd.			

Adapter(2)			
Trade Mark:	MI		
Model No.:	MDY-08-EZ		
Input:	100-240 V~50/60 Hz 0.35 A Max		
Output:	5.0 V == 2.0 A		
AC Cable:	N/A		
DC Cable:	1.0 Meter, Shielded without ferrite		
Manufacturer:	Jangsu Chenyang Electron Co., Ltd.		

Battery				
Trade Mark:	MI			
Model No.:	BN31			
Battery Type: Lithium-ion Polymer Rechargeable Battery				
Rated Voltage:	3.85 Vdc			
Limited Charge Voltage:	4.4 Vdc			
Rated Capacity:	3000 mAh			
Manufacturer:	Zhuhai Coslight Battery Co., Ltd.			

Cable(1)					
Trade Mark:	MI				
Model No.:	L6BU2013-CS-H				
Description:	USB Type-C Plug Cable				
Cable Type:	Shielded without ferrite				
Length:	1.0 Meter				

Cable(2)			
Trade Mark:	MI		
Model No.:	KLC-2588		
Description:	USB Type-C Plug Cable		
Cable Type:	Shielded without ferrite		
Length:	1.0 Meter		



1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

	HOATION COBSECTIVE TO THIS CTANDARD			
Frequency Range:	2400 MHz to 2483.5 MHz			
Support Standards:	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20, IEEE 802.11n-HT40			
Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM(64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT20: OFDM(64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11n-HT40: OFDM(64-QAM, 16-QAM, QPSK, BPSK)			
Data Rate:	IEEE 802.11b: Up to 11 Mbps IEEE 802.11g: Up to 54 Mbps IEEE 802.11n-HT20: Up to MCS7(64 Mbps) IEEE 802.11n-HT40: Up to MCS7(135 Mbps)			
Number of Channels:	IEEE 802.11b: 11 IEEE 802.11g: 11 IEEE 802.11n-HT20: 11 IEEE 802.11n-HT40: 7			
Channel Separation:	5 MHz			
Antenna Type:	PIFA Antenna			
Antenna Gain:	2.34 dBi			
Maximum Peak Power:	IEEE 802.11b: 18.87 dBm IEEE 802.11g: 21.13 dBm IEEE 802.11n-HT20: 21.22 dBm IEEE 802.11n-HT40: 21.06 dBm			
Normal Test Voltage:	3.85 Vdc			

1.4 OTHER INFORMATION

Operation Frequency Each of Channel							
	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n-HT20						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412 MHz	4	2427 MHz	7	2442 MHz	10	2457 MHz
2	2417 MHz	5	2432 MHz	8	2447 MHz	11	2462 MHz
3	2422 MHz	6	2437 MHz	9	2452 MHz		
	IEEE 802.11n-HT40						
		4	2427 MHz	7	2442 MHz		
		5	2432 MHz	8	2447 MHz		
3	2422 MHz	6	2437 MHz	9	2452 MHz	/	

1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

Description Manufacturer		Model No.	Serial Number	Supplied by	
Notebook	Notebook Lenovo		SL10G10780	UnionTrust	

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by	
1	Antenna Cable	SMA	0.30 Meter	UnionTrust	

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1.6 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua

New District, Shenzhen, China 518109 Telephone: +86 (0) 755 2823 0888 Fax: +86 (0) 755 2823 0886

Tests were sub-contracted. (FCC 47 CFR Part 15.207, FCC 47 CFR Part 15.209)

Compliance Certification Services (Shenzhen) Inc.

Address: No.10-1 Mingkeda Logistics Park, No.18 Huanguan South RD. Guan Ian Town, Baoan Distr,

Shenzhen, Guangdong, China.

Telephone: +86 (0) 755 28055000 Fax: +86 (0) 755 29055221

1.7 TEST FACILITY

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

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

IC-Registration No.: 21600-1

The 3m Semi-anechoic chamber of Shenzhen UnionTrust Quality and Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 21600-1.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Compliance Certification Services (Shenzhen) Inc.

FCC Registration Number is 441872.

1.8 DEVIATION FROM STANDARDS

None.

1.9 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

Shenzhen UnionTrust Quality and Technology Co., Ltd.



1.11 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

	ggg					
No.	Item	Measurement Uncertainty				
1	Conducted emission 9KHz-30MHz	±3.2878 dB				
2	Radiated emission 30MHz-200MHz	±3.8928 dB				
3	Radiated emission 200MHz-1GHz	±3.8753 dB				
4	Radiated emission 1GHz-8GHz	±5.3112 dB				
5	Radiated emission 8GHz-18GHz	±5.3493 dB				





2. TEST SUMMARY

FCC 47 CFR Part 15 Subpart C Test Cases							
Test Item	Test Requirement	Test Method	Result				
Antenna Requirement	FCC 47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	ANSI C63.10-2013	PASS				
AC Power Line Conducted Emission	FCC 47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	PASS*				
Conducted Peak Output Power	FCC 47 CFR Part 15 Subpart C Section 15.247 (b)(3)	KDB 558074 D01 v04 Section 9.1.2	PASS				
6dB Bandwidth	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(2)	KDB 558074 D01 v04 Section 8.1	PASS				
Power Spectral Density	FCC 47 CFR Part 15 Subpart C Section 15.247 (e)	KDB 558074 D01 v04 Section 10.2	PASS				
Conducted Out of Band Emission	FCC 47 CFR Part 15 Subpart C Section 15.247(d)	KDB 558074 D01 v04 Section 11	PASS				
Radiated Spurious Emissions	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209	KDB 558074 D01 v04 Section 12.1	PASS*				
Band Edge Measurements (Radiated)	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209	KDB 558074 D01 v04 Section 12.1	PASS*				

Note:

- 1) N/A: In this whole report not application.
- 2) This EUT is charged by AC adapter to the battery.3) "*": In this whole report "*" means tests were sub-contracted Item.



3. EQUIPMENT LIST

	Radiated Emission Test Equipment List Chamber 1									
Used	Used Equipment Manufa		Model No. Serial Number		Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)				
•	PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	Feb. 17, 2017	Feb. 16, 2018				
~	High Noise Amplifier	Agilent	8449B	3008A01838	Feb. 11, 2017	Feb. 10, 2018				
•	Horn Antenna	SCHWARZBEC K	BBHA9120	D286	Feb. 12, 2017	Feb. 11, 2018				
~	Bilog Antenna	SCHAFFNER	CBL6143	5082	02-12-2017	02-11-2018				
•	Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	Feb. 11, 2017	Feb. 10, 2018				
~	Turn Table	N/A	N/A	N/A	N.C.R	N.C.R				
~	Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R				
~	Controller	СТ	N/A	N/A	N.C.R	N.C.R				
~	Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R				
>	Temp. / Humidity Meter	Anymetre	JR913	N/A	Feb. 15, 2017	Feb. 14, 2018				
>	Test S/W	FARAD		LZ-RF / CCS-SZ-3A2						

	Conducted Emission Test Equipment List									
Used	Sed Equipment Manufacture		Model No. Serial Number		Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)				
~	EMI TEST RECEIVER	ROHDE&SCHW ARZ	ESCI	100783	Feb. 11, 2017	Feb. 10, 2018				
~	LISN(EUT)	ROHDE&SCHW ARZ	ENV216	101543-WX	Feb. 11, 2017	Feb. 10, 2018				
~	LISN	EMCO	3825/2	8901-1459	Feb. 12, 2017	Feb. 11, 2018				
>	Temp. / Humidity Meter	VICTOR	HTC-1	N/A	Feb. 15, 2017	Feb. 14, 2018				
>	Test S/W	FARAD	EZ-EMC/ CCS-3A1-CE							

	Conducted RF test Equipment List									
Used	Used Equipment Manufac		turer Model No. Serial Number		Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)				
V	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	Dec. 22, 2016	Dec. 22, 2017				
	Receiver	R&S	ESR7	1316.3003K07 -101181-K3	Dec. 22, 2016	Dec. 22, 2017				
•	USB Wideband Power Sensor	KEYSIGHT	U2021XA	MY55430035	Dec. 22, 2016	Dec. 22, 2017				
>	USB Wideband Power Sensor	KEYSIGHT	U2021XA	MY55430023	Dec. 22, 2016	Dec. 22, 2017				

4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

Environment Parameter	Selected Values During Tests						
Toot Condition	Ambient						
Test Condition	Temperature (°C)	Voltage (V)	Relative Humidity (%)				
NT/NV	+15 to +35	3.85	20 to 75				
Remark: 1) NV: Normal Voltage; NT: Normal Temperature							

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4.1.2 Record of Normal Environment

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (Kpa)	Tested by
AC Power Line Conducted Emission	24.3	54	100.4	Tiny You
Conducted Peak Output Power	24.3	54	100.4	Tiny You
6dB Bandwidth	24.3	54	100.4	Tiny You
Power Spectral Density	24.3	54	100.4	Tiny You
Conducted Out of Band Emission	24.3	54	100.4	Tiny You
Radiated Spurious Emissions	24.3	54	100.4	Tiny You
Band Edge Measurements (Radiated)	24.3	54	100.4	Tiny You

4.2TEST CHANNELS

Mode	Ty/Dy Eroguenov	Test RF Channel Lists				
Wiode	Tx/Rx Frequency	Lowest(L)	Middle(M)	Highest(H)		
IEEE 802.11b	2412 MHz to 2462 MHz	Channel 1	Channel 7	Channel 11		
IEEE 602.110	24 12 IVIDZ 10 2402 IVIDZ	2412 MHz	2437 MHz	2462 MHz		
IEEE 802.11g	2412 MHz to 2462 MHz	Channel 1	Channel 7	Channel 11		
IEEE 602.119	24 12 IVITIZ (0 2402 IVITIZ	2412 MHz	2437 MHz	2462 MHz		
IEEE 000 115 UT00	2412 MHz to 2462 MHz	Channel 1	Channel 7	Channel 11		
IEEE 802.11n-HT20	24 12 IVITIZ (0 2402 IVITIZ	2412 MHz	2437 MHz	2462 MHz		
IEEE 002 11n UT40	2422 MHz to 2452 MHz	Channel 3	Channel 7	Channel 9		
IEEE 802.11n-HT40	2422 IVITZ (0 2432 IVITZ	2422 MHz	2437 MHz	2452 MHz		

4.3 EUT TEST STATUS

Mode	Tx/Rx Function	Description
IEEE 802.11b		
IEEE 802.11g	1Tx/1Rx	1. Keep the EUT in continuously transmitting or receiving with
IEEE 802.11n-HT20		modulation test single.
IEEE 802.11n-HT40		



4.4 PRE-SCAN

4.4.1 Pre-scan under all rates

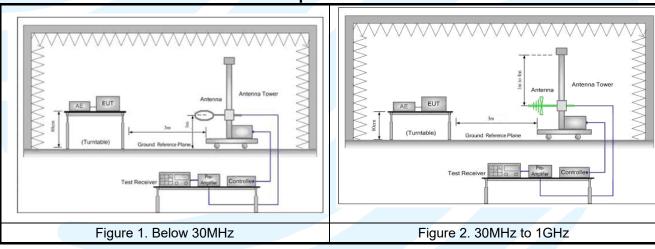
Mode and	Maximum Conducted Average Power (dBm)								
Frequency		1		2		5.5		11	
IEEE 802.11b 2437 MHz	13	.62	13	.25	12	.27	11.	.09	
IEEE 802.11g	6	9	12	18	24	36	48	54	
2437 MHz	12.26	11.78	10.65	10.05	9.45	8.62	7.33	5.76	
IEEE 802.11n-HT20	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
2437 MHz	12.24	11.67	10.48	9.62	8.78	7.97	6.55	5.88	
IEEE 802.11n-HT40	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	
2437 MHz	11.66	11.29	10.48	9.76	8.11	7.09	6.43	5.46	

4.4.2 Worst-case data rates

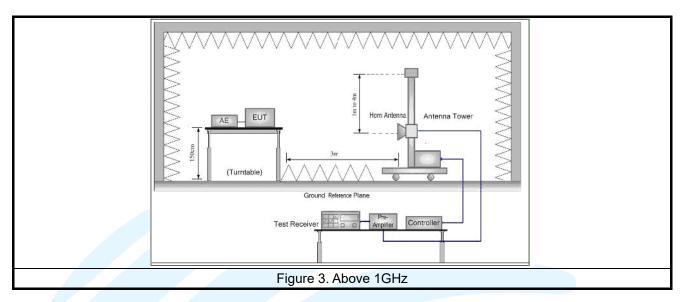
Mode	Worst-case data rates
IEEE 802.11b	1 Mbps
IEEE 802.11g	6 Mbps
IEEE 802.11n-HT20	MCS0
IEEE 802.11n-HT40	MCS0

4.5 TEST SETUP

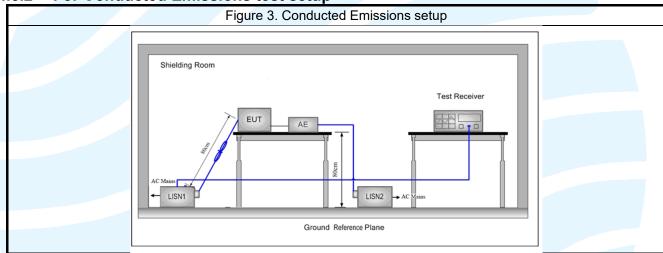
4.5.1 For Radiated Emissions test setup



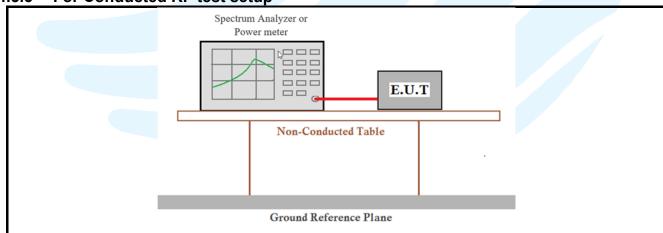
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4.5.2 For Conducted Emissions test setup



4.5.3 For Conducted RF test setup



4.6 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power



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as worst-case scenario. It was powered by a 3.85Vdc rechargeable Li-on battery. Only the worst case data were recorded in this test report.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. Therefore, all final radiated testing was performed with the EUT in (see table below) orientation.

Frequency	Mode	Antenna Port	Worst-case axis positioning
Above 1GHz	1TX	Chain 0	X axis

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

4.7 DUTY CYCLE

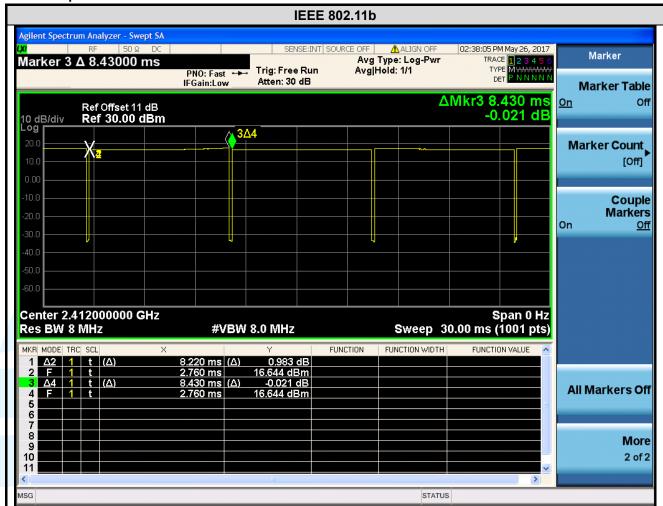
Mode	Data rates (Mbps)	On Time (msec)	Period (msec)	Duty Cycle (linear)	Duty Cycle (%)	Duty Cycle Factor (dB)	1/ T Minimum VBW (kHz)	Average Factor (dB)
IEEE 802.11b	1	8.22	8.43	0.98	97.51	0.11	0.12	-0.22
IEEE 802.11g	6	1.356	1.56	0.87	86.92	0.61	0.74	-1.22
IEEE 802.11n-HT20	MCS0	1.278	1.476	0.87	86.59	0.63	0.78	-1.25
IEEE 802.11n-HT20	MCS0	0.633	0.837	0.76	75.63	1.21	1.58	-2.43

Remark:

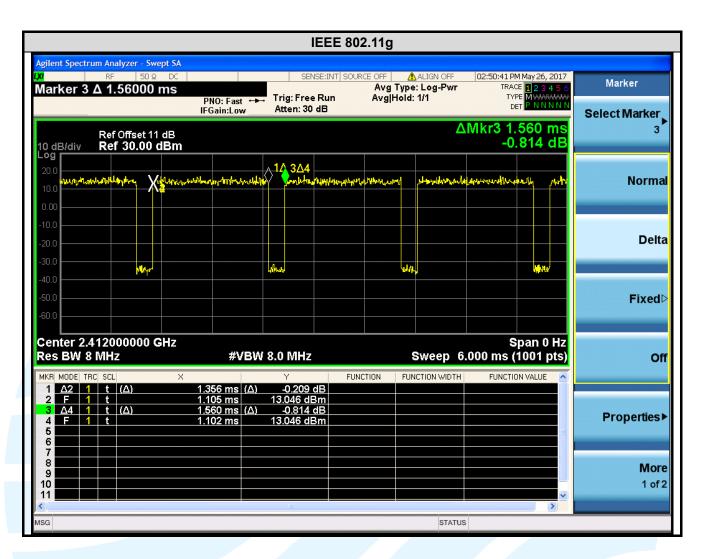
- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = 10 * log(1/ Duty cycle);
- 3) Average factor = 20 log₁₀ Duty Cycle.



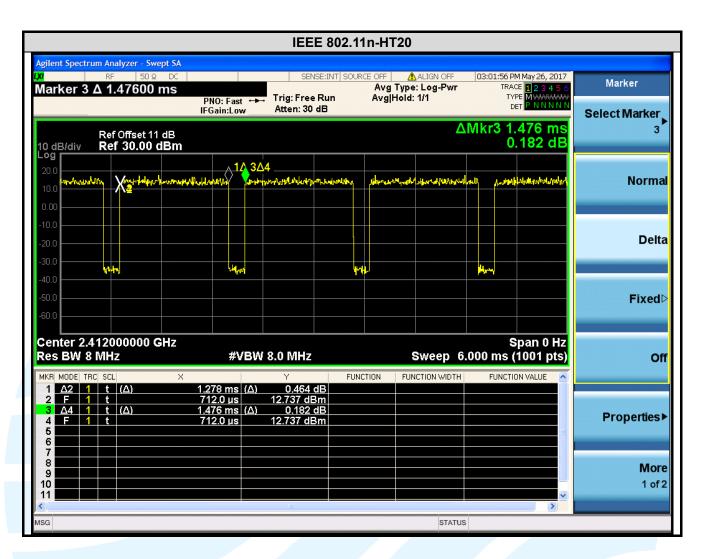
The test plot as follows



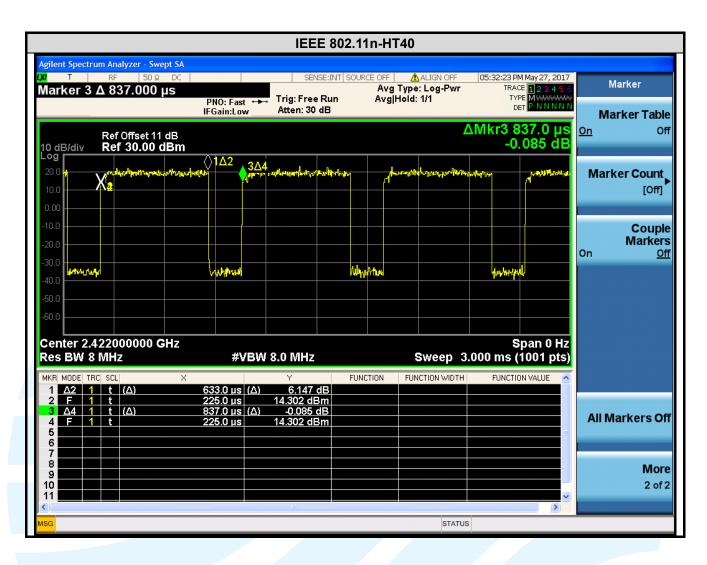














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5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION 5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity Document Title				
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules an regulations			
2	FCC 47 CFR Part 15	Radio Frequency Devices			
3	ANSI C63.10-2013	American National Standard for Testing Unlicesed Wireless Devices			
4	KDB 558074 D01 DTS Meas Guidance v04	Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247			

5.2 ANTENNA REQUIREMENT

Standard Requirement

15.203 requirement:

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 an 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. 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.

EUT Antenna:

Antenna in the interior of the equipment and no consideration of replacement. The gain of the antenna is 2.34.34 dBi.



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5.3 CONDUCTED PEAK OUTPUT POWER

Test Requirement: FCC 47 CFR Part 15 Subpart C Section15.247 (b)(3)

Test Method: KDB 558074 D01 v04, Section 9.1.2

Limit: For systems using digital modulation in the 2400-2483.5 MHz bands: 1 Watt.

Test Procedure: 1. Remove the antenna from the EUT and then connect a low loss RF cable from the

antenna port to the power meter.

2. Measure out each test modes' peak or average output power, record the power

level.

Note: The cable loss and attenuator loss were offset into measure device as an

amplitude offset.

Test Setup: Refer to section 4.4.3 for details. **Instruments Used:** Refer to section 3 for details

Test Mode: Transmitter mode

Test Results: Pass

Test Data:

	Ohannal/		Maximun	n Conducted Powe	er (dBm)	
Mode	Channel/ Frequency	Data Rate		Average Power		
	(MHz)	(Mbps)	Peak Power	Measured Power	Power with Duty Factor	
	1(2412)		17.68	13.52	13.63	
IEEE 802.11b	6(2437)	1	17.75	13.62	13.73	
	11(2462)		18.87	14.01	14.12	
	1(2412)		20.34	11.94	12.55	
IEEE 802.11g	6(2437)	6	20.78	12.26	12.87	
	11(2462)		21.13	12.51	13.12	
	1(2412)		20.68	11.91	12.54	
IEEE 802.11n-HT20	6(2437)	MCS0	20.78	12.24	12.87	
	11(2462)		21.22	12.45	13.08	
	3(2422)		20.85	10.53	11.74	
IEEE 802.11n-HT40	6(2437)	MCS0	20.88	11.66	12.87	
	9(2452)		21.06	11.71	12.92	

Remark:

Power with Duty Factor = Measured Power + Duty Cycle Factor



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5.46 DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(2)

Test Method: KDB 558074 D01 v04, Section 8.1

Limit: For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

Test Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the

antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

a) Set RBW = 100 kHz.

b) Set the video bandwidth (VBW) \geq 3 x RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Sweep = auto couple.

f) Allow the trace to stabilize.

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

emission.

Note: The cable loss and attenuator loss were offset into measure device as an

amplitude offset.

Test Setup: Refer to section 4.4.3 for details. **Instruments Used:** Refer to section 3 for details

Test Mode: Transmitter mode

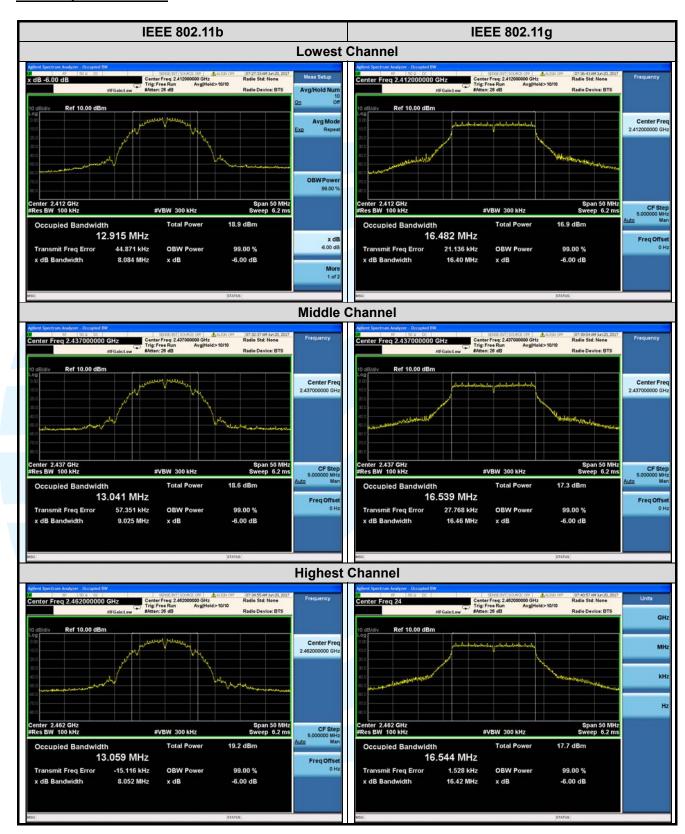
Test Results: Pass

Test Data:

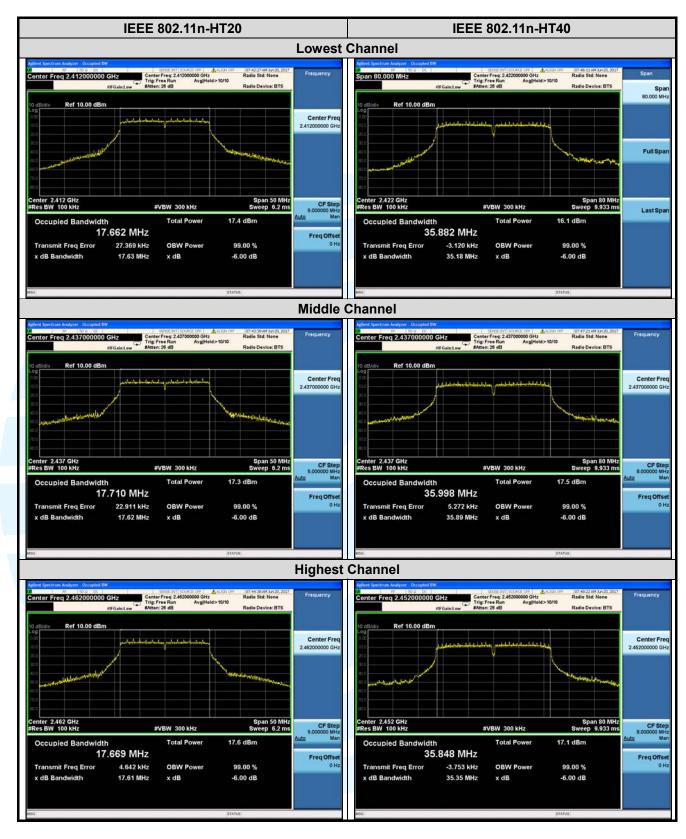
Mode	Channel/ Frequency (MHz)	6 dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limit	Pass / Fail
	1(2412)	8.084	12.915	> 500 kHz	Pass
IEEE 802.11b	6(2437)	9.025	13.041	> 500 kHz	Pass
	11(2462)	8.052	13.059	> 500 kHz	Pass
	1(2412)	16.40	16.482	> 500 kHz	Pass
IEEE 802.11g	6(2437)	16.46	16.539	> 500 kHz	Pass
	11(2462)	16.42	16.544	> 500 kHz	Pass
	1(2412)	17.63	17.662	> 500 kHz	Pass
IEEE 802.11n-HT20	6(2437)	17.62	17.710	> 500 kHz	Pass
	11(2462)	17.61	17.669	> 500 kHz	Pass
	3(2422)	35.18	35.882	> 500 kHz	Pass
IEEE 802.11n-HT40	6(2437)	35.89	35.998	> 500 kHz	Pass
	9(2452)	35.35	35.848	> 500 kHz	Pass



The test plot as follows:









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5.5 POWER SPECTRAL DENSITY

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247 (e)

Test Method: KDB 558074 D01 v04, Section 10.2

Limit: For digitally modulated systems, the power spectral density conducted from the

intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band

during any time interval of continuous transmission.

Test Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the

antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

a) Set analyzer center frequency to DTS channel center frequency.

b) Set the span to 1.5 times the DTS bandwidth.

c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.

d) Set the VBW \geq 3 x RBW.

e) Detector = peak.

f) Sweep time = auto couple.

g) Trace mode = max hold.

h) Allow trace to fully stabilize.

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

j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Note: The cable loss and attenuator loss were offset into measure device as an

amplitude offset.

Test Setup: Refer to section 4.4.3 for details. **Instruments Used:** Refer to section 3 for details

Test Mode: Transmitter mode

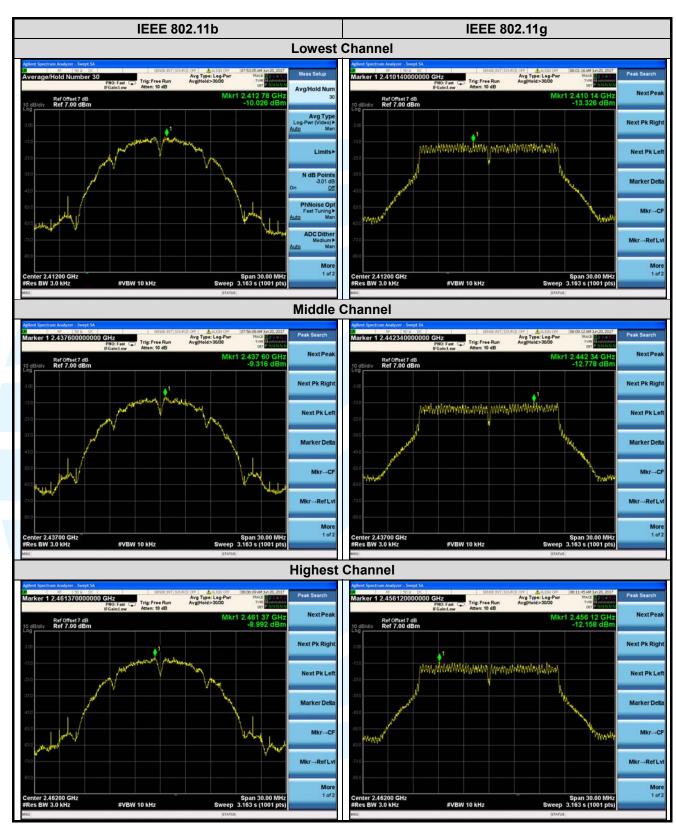
Test Results: Pass

Test Data:

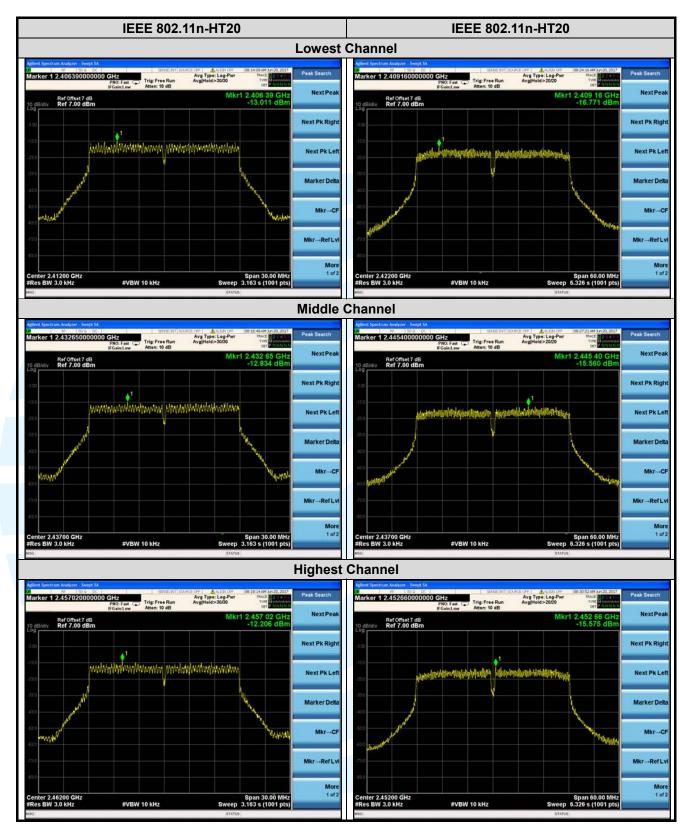
Mode	Channel/ Frequency (MHz)	PSD (dBm)	PSD Limit (dBm)	Pass / Fail
	1(2412)	-10.026	8	Pass
IEEE 802.11b	6(2437)	-9.316	8	Pass
	11(2462)	-8.992	8	Pass
	1(2412)	-13.326	8	Pass
IEEE 802.11g	6(2437)	-12.778	8	Pass
	11(2462)	12.158	8	Pass
	1(2412)	-13.011	8	Pass
IEEE 802.11n-HT20	6(2437)	-12.834	8	Pass
	11(2462)	-12.206	8	Pass
	3(2422)	-16.771	8	Pass
IEEE 802.11n-HT40	6(2437)	-15.560	8	Pass
	9(2452)	-15.575	8	Pass



The test plot as follows:









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5.6 CONDUCTED OUT OF BAND EMISSION

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.247(d)

Test Method: KDB 558074 D01 v04, Section 11

Limit: In any 100kHz bandwidth outside the frequency bands in which the spread spectrum

intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the

band that contains the highest level of the desired power.

Test Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the

antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

Step 1: Measurement Procedure REF

a) Set instrument center frequency to DTS channel center frequency.

- b) Set the span to ≥ 1.5 times the DTS bandwidth.
- c) Set the RBW = 100 kHz.
- d) Set the VBW \geq 3 x RBW.
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum PSD level.
- Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

Step 2: Measurement Procedure OOBE

- a) Set RBW = 100 kHz.
- b) Set VBW ≥ 300 kHz.
- c) Detector = peak.
- d) Sweep = auto couple.
- e) Trace Mode = max hold.
- f) Allow trace to fully stabilize.
- g) Use the peak marker function to determine the maximum amplitude level.

Note: The cable loss and attenuator loss were offset into measure device as an

amplitude offset.

Test Setup: Refer to section 4.4.3 for details. **Instruments Used:** Refer to section 3 for details

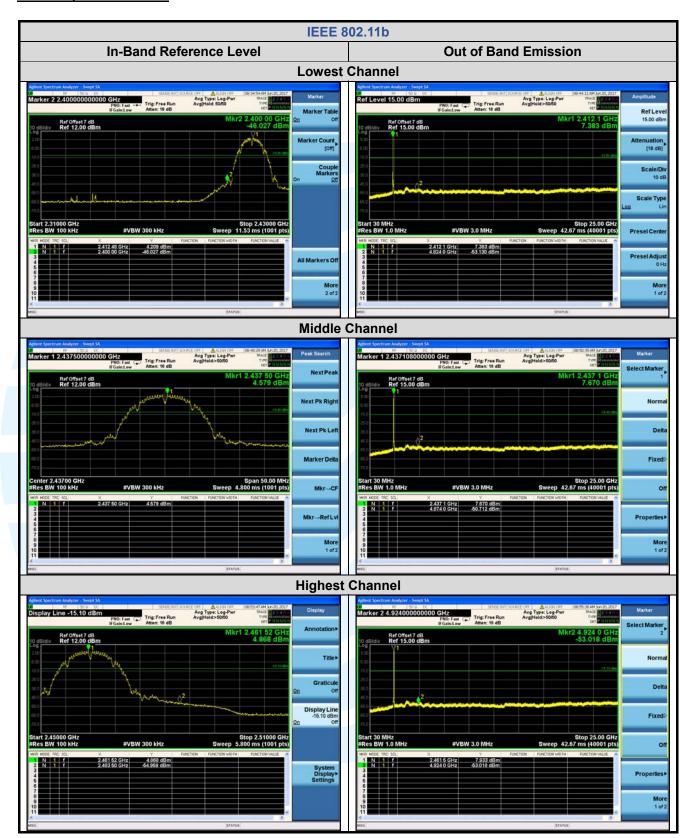
Test Mode: Transmitter mode

Test Results: Pass

Test Data:



The test plot as follows:

















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5.7 RADIATED SPURIOUS EMISSIONS

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.205/15.209

Test Method: KDB 558074 D01 v04, Section 12.1

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009 MHz-0.090 MHz	Peak	10 kHz	30 KHz	Peak
0.009 MHz-0.090 MHz	Average	10 kHz	30 KHz	Average
0.090 MHz-0.110 MHz	Quasi-peak	10 kHz	30 KHz	Quasi-peak
0.110 MHz-0.490 MHz	Peak	10 kHz	30 KHz	Peak
0.110 MHz-0.490 MHz	Average	10 kHz	30 KHz	Average
0.490 MHz -30 MHz	Quasi-peak	10 kHz	30 kHz	Quasi-peak
30 MHz-1 GHz	Quasi-peak	100 kHz	300 KHz	Quasi-peak
Above 1 GHz	Peak	1 MHz	3 MHz	Peak
ADOVE I GHZ	Peak	1 MHz	10 Hz	Average

Limits:

Spurious Emissions

Opurious Ellissions				
Frequency	Field strength (microvolt/meter)	Limit (dBμV/m)	Remark	Measurement distance (m)
0.009 MHz-0.490 MHz	2400/F(kHz)	-	-	300
0.490 MHz-1.705 MHz	24000/F(kHz)	-	-	30
1.705 MHz-30 MHz	30		-	30
30 MHz-88 MHz	100	40.0	Quasi-peak	3
88 MHz-216 MHz	150	43.5	Quasi-peak	3
216 MHz-960 MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1 GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Remark:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. For frequencies above 1000 MHz, the field strength limits are based on average detector, 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.

Test Setup: Refer to section 4.4.1 for details.

Test Procedures:

- 1. From 30 MHz to 1GHz test procedure as below:
- 1) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



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- 6) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- 2. Above 1GHz test procedure as below:
- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).
- 2) Test the EUT in the lowest channel ,middle channel, the Highest channel
- 3) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
- 4) Repeat above procedures until all frequencies measured was complete.

Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement data as follows:

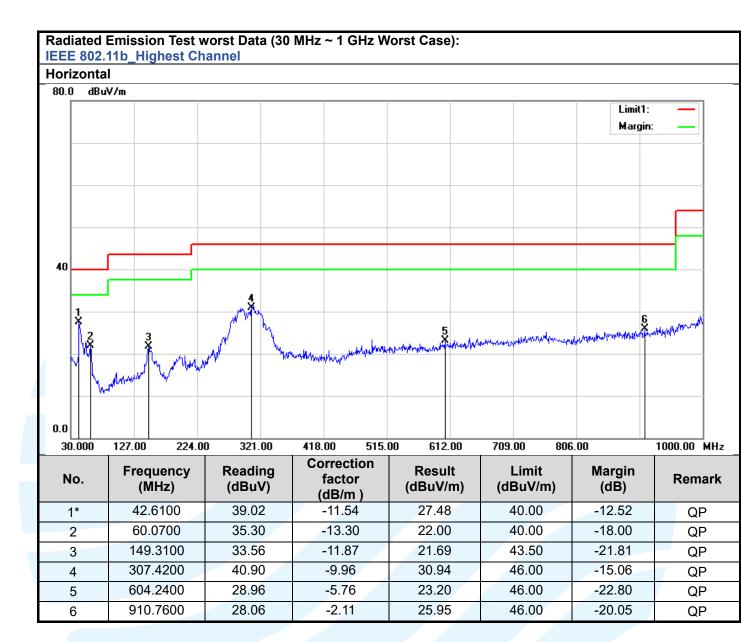
Radiated Emission Test Data (9 KHz ~ 30 MHz):

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

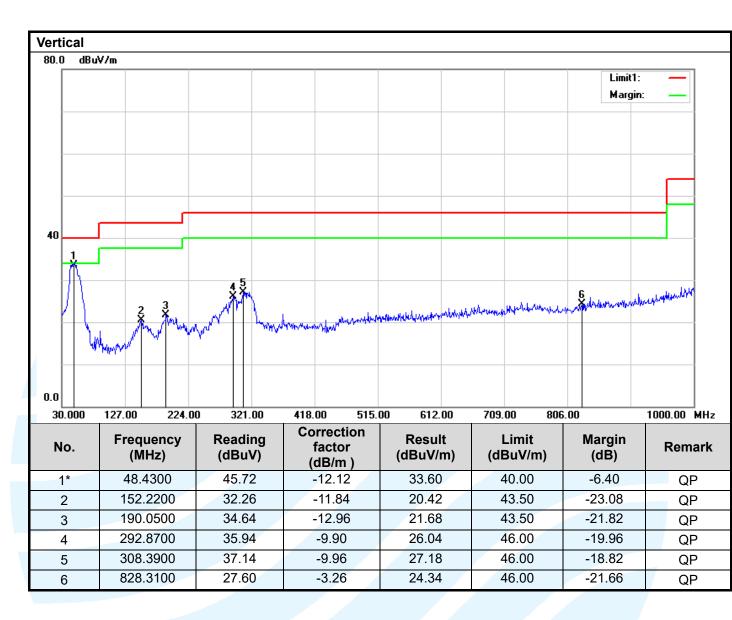
Radiated Emission Test Data (Above 18 GHz):

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.











Radiated Emission Test Data (1GHz ~ 18GHz):

IEEE 802.11b Lowest Channel:

No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polaxis	Remark
1	4824.00	44.32	74.00	-29.68	Peak	Horizontal
2	7236.00	49.65	74.00	-24.35	Peak	Horizontal
3	4824.00	45.36	74.00	-28.64	Peak	Vertical
4	7236.00	50.02	74.00	-23.98	Peak	Vertical

IEEE 802.11b	IEEE 802.11b_Middle Channel:							
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polaxis	Remark		
1	4874.00	45.12	74.00	-28.88	Peak	Horizontal		
2	7311.00	50.03	74.00	-23.97	Peak	Horizontal		
3	4874.00	44.67	74.00	-29.33	Peak	Vertical		
4	7311.00	49.47	74.00	-24.53	Peak	Vertical		

IEEE 802.11b	_Highest Chanr	nel:				
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polaxis	Remark
1	4924.00	44.79	74.00	-29.21	Peak	Horizontal
2	7386.00	49.87	74.00	-24.13	Peak	Horizontal
3	4924.00	45.65	74.00	-28.35	Peak	Vertical
4	7386.00	50.21	74.00	-23.79	Peak	Vertical

4824.00

7236.00

45.74

50.32

3

4

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Peak

Peak

Vertical

Vertical

-28.26

-23.68

IEEE 802.11g_Lowest Channel:							
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polaxis	Remark	
1	4824.00	44.29	74.00	-29.71	Peak	Horizontal	
2	7236.00	49.58	74.00	-24.42	Peak	Horizontal	

74.00

74.00

IEEE 802.11g_Middle Channel:							
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polaxis	Remark	
1	4874.00	45.06	74.00	-28.94	Peak	Horizontal	
2	7311.00	49.55	74.00	-24.45	Peak	Horizontal	
3	4874.00	44.19	74.00	-29.81	Peak	Vertical	
4	7311.00	50.32	74.00	-23.68	Peak	Vertical	

IEEE 802.11g_Highest Channel:						
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polaxis	Remark
1	4924.00	47.12	74.00	-26.88	Peak	Horizontal
2	7386.00	51.21	74.00	-22.79	Peak	Horizontal
3	4924.00	46.43	74.00	-27.57	Peak	Vertical
4	7386.00	50.33	74.00	-23.67	Peak	Vertical

IEEE 802.11n-HT20_Lowest Channel:						
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polaxis	Remark
1	4824.00	44.34	74.00	-29.66	Peak	Horizontal
2	7236.00	51.03	74.00	-22.97	Peak	Horizontal
3	4824.00	45.08	74.00	-28.92	Peak	Vertical
4	7236.00	50.72	74.00	-23.28	Peak	Vertical

IEEE 802.11n-	HT20_Middle C	hannel:				
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polaxis	Remark
1	4874.00	47.30	74.00	-26.70	Peak	Horizontal
2	7311.00	51.33	74.00	-22.67	Peak	Horizontal
3	4874.00	46.12	74.00	-27.88	Peak	Vertical
4	7311.00	50.65	74.00	-23.35	Peak	Vertical

IEEE 802.11n-HT20_Highest Channel:							
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polaxis	Remark	
1	4924.00	47.32	74.00	-26.68	Peak	Horizontal	
2	7386.00	50.76	74.00	-23.24	Peak	Horizontal	
3	4924.00	46.42	74.00	-27.58	Peak	Vertical	
4	7386.00	51.33	74.00	-22.67	Peak	Vertical	

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IEEE 802.11n-HT40_Lowest Channel:							
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polaxis	Remark	
1	4844.00	48.54	74.00	-25.46	Peak	Horizontal	
2	7266.00	51.32	74.00	-22.68	Peak	Horizontal	
3	4844.00	47.28	74.00	-26.72	Peak	Vertical	
4	7266.00	52.67	74.00	-21.33	Peak	Vertical	

IEEE 802.11n-HT40_Middle Channel:						
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polaxis	Remark
1	4874.00	48.21	74.00	-25.79	Peak	Horizontal
2	7311.00	51.09	74.00	-22.91	Peak	Horizontal
3	4874.00	49.56	74.00	-24.44	Peak	Vertical
4	7311.00	50.55	74.00	-23.45	Peak	Vertical

IEEE 802.11n-HT40_Highest Channel:						
No.	Frequency (MHz)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Polaxis	Remark
1	4904.00	48.37	74.00	-25.63	Peak	Horizontal
2	7356.00	51.65	74.00	-22.35	Peak	Horizontal
3	4904.00	47.97	74.00	-26.03	Peak	Vertical
4	7356.00	52.15	74.00	-21.85	Peak	Vertical



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5.8 BAND EDGE MEASUREMENTS (RADIATED)

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.205/15.209

Test Method: KDB 558074 D01 v04, Section 12.1

Limits:

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Frequency	Limit (dBµV/m @3m)	Remark	
30 MHz-88 MHz	40.0	Quasi-peak Value	
88 MHz-216 MHz	43.5	Quasi-peak Value	
216 MHz-960 MHz	46.0	Quasi-peak Value	
960 MHz-1 GHz	54.0	Quasi-peak Value	
Above 1 GHz	54.0	Average Value	
Above 1 GHZ	74.0	Peak Value	

Test Setup: Refer to section 4.4.1 for details.

Test Procedures:

Radiated band edge measurements at 2390 MHz and 2483.5 MHz were made with the unit transmitting in the low end of the channel range and the high end closest to the restricted bands respectively. The emissions were made on the 966 Semi-Chamber. Use (resolution bandwidth (RBW) = 1 MHz, video bandwidth (VBW) = 3 MHz for peak levels and RBW = 1 MHz and VBW = 10 Hz or 1/T for average levels).

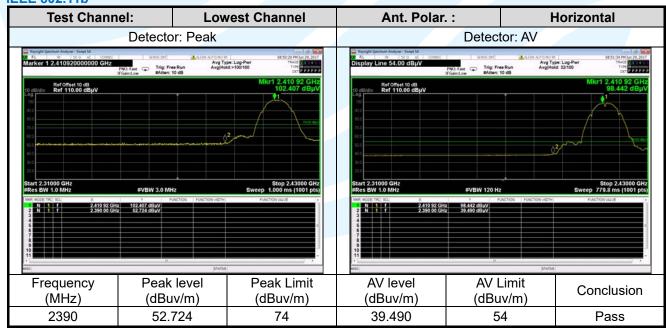
- 1. Use radiated spurious emission test procedure described in clause 5.10. The transmitter output (antenna port) was connected to the test receiver.
- 2. Set the PK and AV limit line.
- 3. Record the fundamental emission and emissions out of the band-edge.
- 4. Determine band-edge compliance as required.

Equipment Used: Refer to section 3 for details.

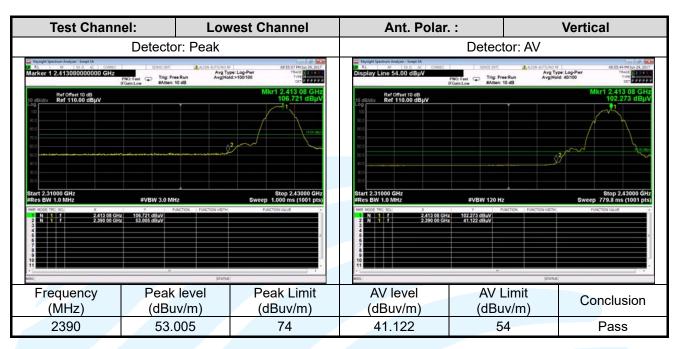
Test Result: Pass

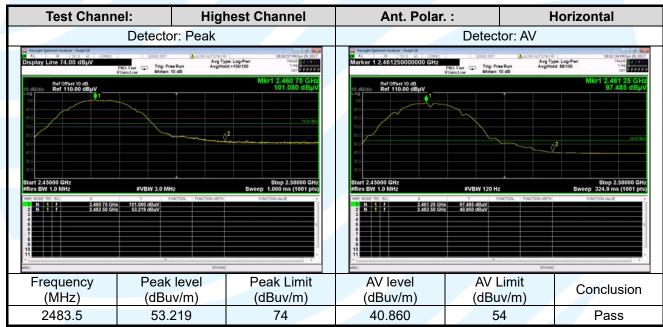
The measurement data as follows:

IEEE 802.11b

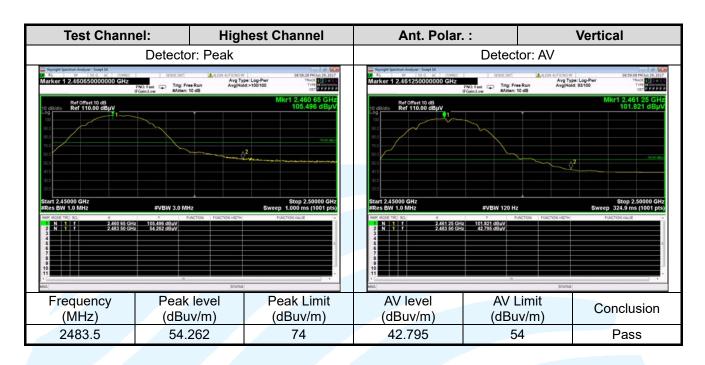




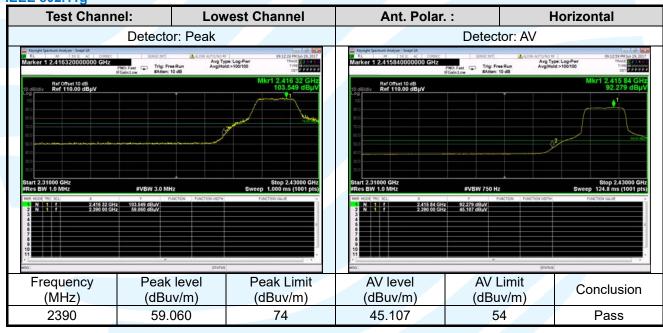




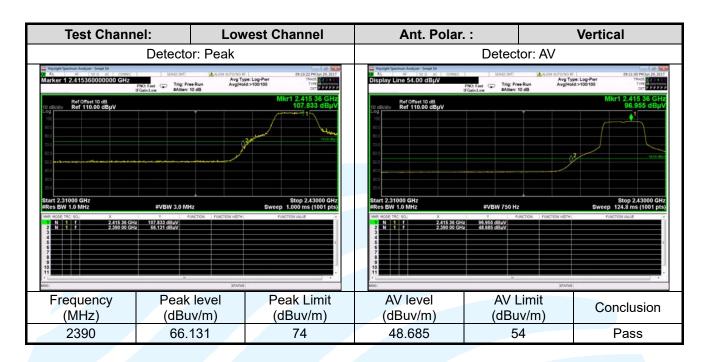


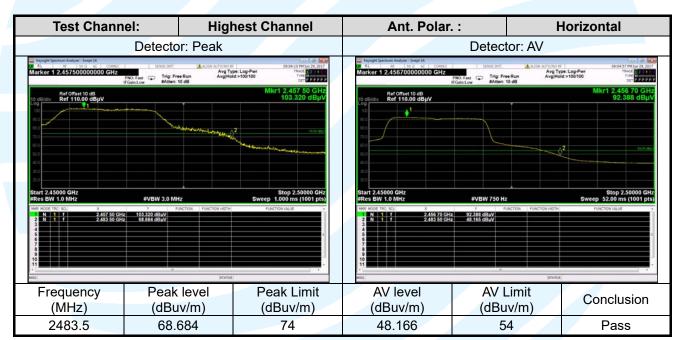


IEEE 802.11g

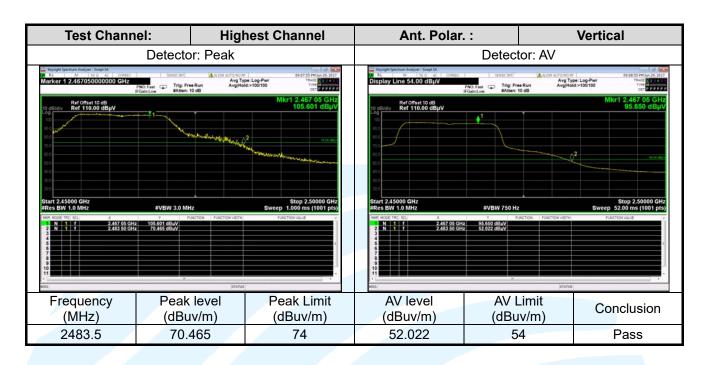




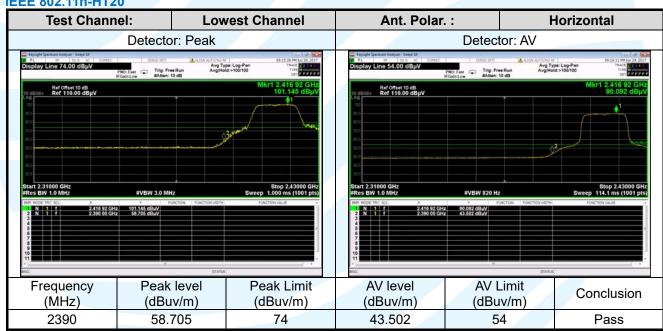




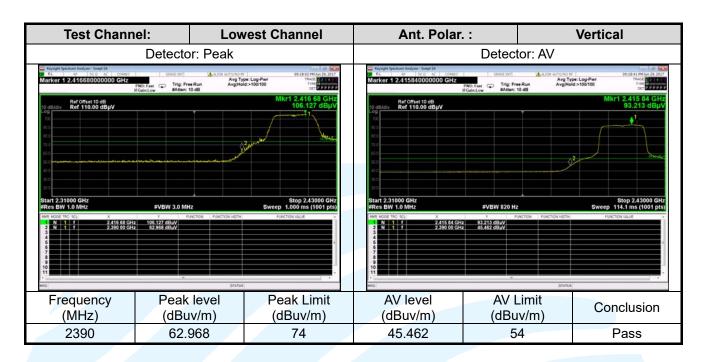


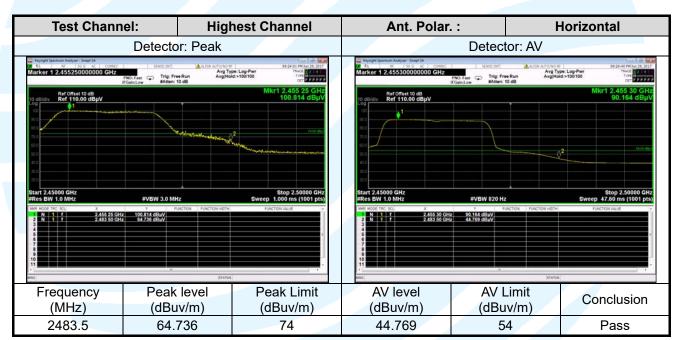


IEEE 802.11n-HT20

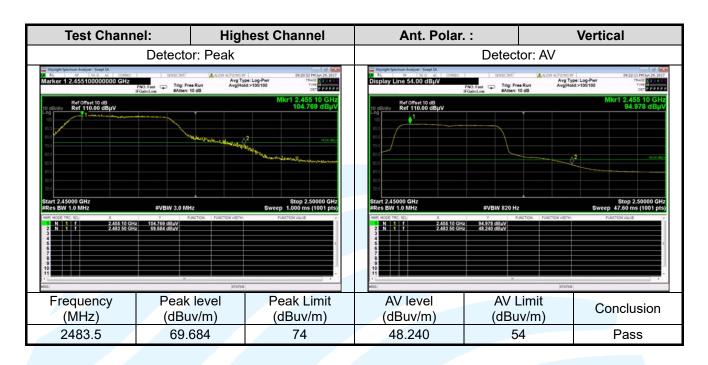




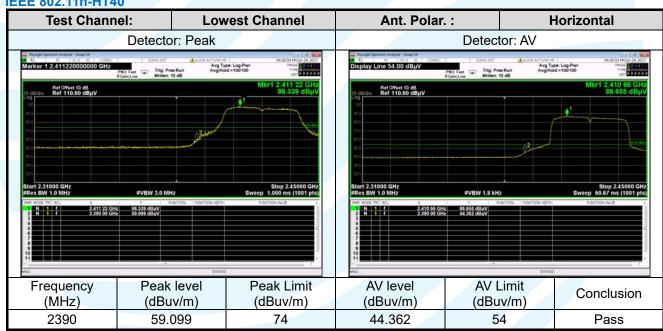




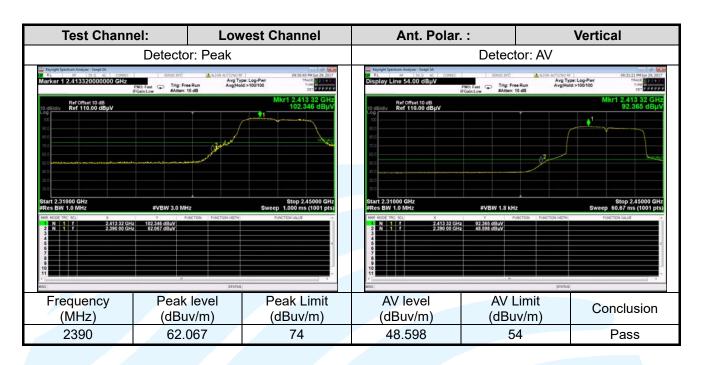


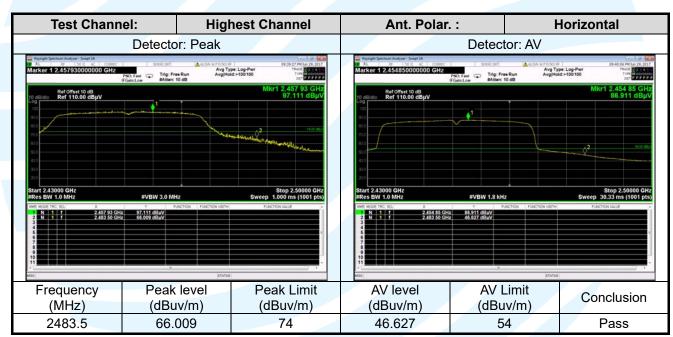


IEEE 802.11n-HT40

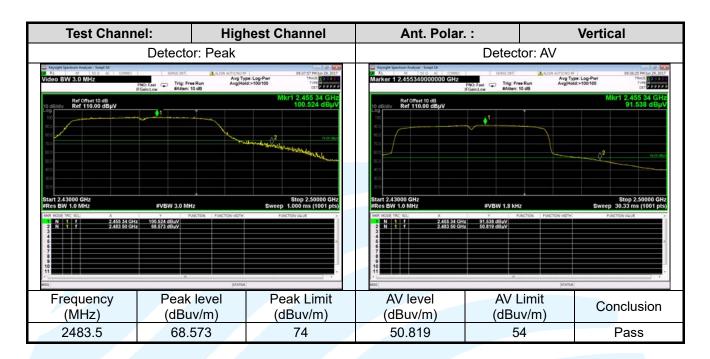














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5.9 CONDUCTED EMISSION

Test Requirement: 47 CFR Part 15C Section 15.207

Test Method: ANSI C63.10-2013

Limits:

Frequency range	Limits (dB(μV)				
(MHz)	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			

Remark:

1. The lower limit shall apply at the transition frequencies.

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

Test Setup: Refer to section 4.4.2 for details.

Test Procedures:

Test frequency range: 150KHz-30MHz

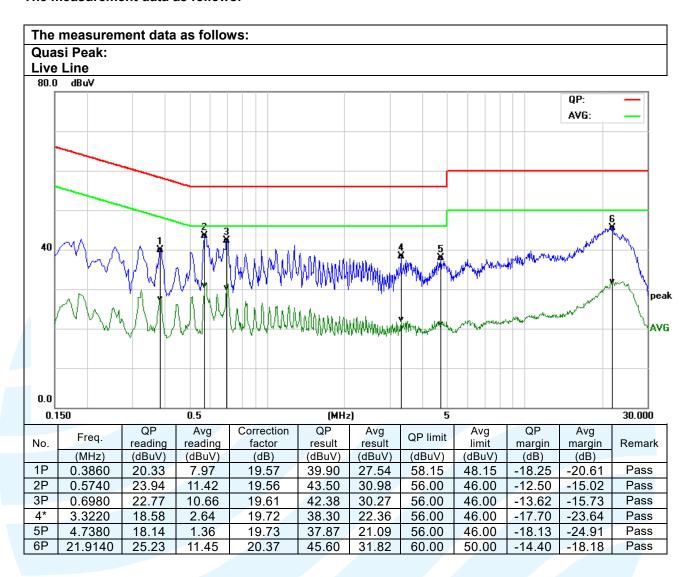
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT 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,
- 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.
- In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Equipment Used: Refer to section 3 for details.

Test Result: Pass



The measurement data as follows:



Pass

Pass

Pass

Pass

Pass

Pass

-28.75

-15.90

-15.51

-18.96

-23.73

-23.23

-19.58

-14.41

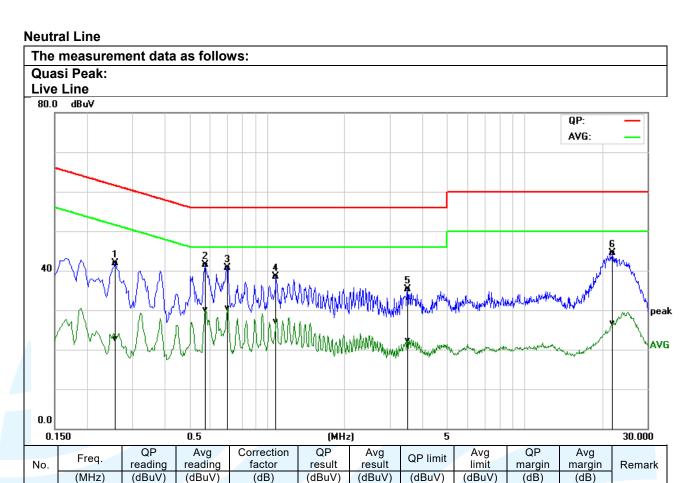
-15.23

-17.44

-20.62

-15.52





Remark:

1P

2P

3P

4*

5P

6P

0.2580

0.5780

0.7019

1.0859

3.5220

21.9660

22.37

22.03

21.16

18.99

15.60

24.09

3.21

10.54

10.88

7.47

2.49

6.38

19.54

19.56

19.61

19.57

19.78

20.39

1. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

41.91

41.59

40.77

38.56

35.38

44.48

22.75

30.10

30.49

27.04

22.27

26.77

61.49

56.00

56.00

56.00

56.00

60.00

51.50

46.00

46.00

46.00

46.00

50.00



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APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

See test photographs attached in Appendix 1 for the actual connections between Product and support equipment.

