



FCC RF Test Report

APPLICANT : Motorola Mobility, LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : 4651
FCC ID : IHDT56UA2
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

This is a variant report which is only valid together with the original test report. The product was received on May 21, 2015. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

**SPORTON INTERNATIONAL INC.****No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.**

SPORTON INTERNATIONAL INC.

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FCC ID : IHDT56UA2

Page Number : 1 of 5

Report Issued Date : Aug. 04, 2015

Report Version : Rev. 01

Report Template No.: BU5-FR15EWL AC MA Version 1.0



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR552083-02E	Rev. 01	The Bluetooth and WLAN circuitry of this variant model (4651) is identical to that of the parent product (4036), based on the product equality declaration by the manufacturer	Aug. 04, 2015



1 General Description

1.1 Applicant

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.2 Manufacturer

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	4651
FCC ID	IHDT56UA2
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/NFC 2.4GHz WLAN 11b/g/n HT20 WLAN 11ac VHT20 5GHz WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth v3.0 EDR Bluetooth v4.1 - LE
HW Version	P2
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard			
Tx/Rx Channel Frequency Range	5180 MHz ~ 5240 MHz		
	5260 MHz ~ 5320 MHz		
	5500 MHz ~ 5700 MHz		
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)		
Antenna Type /Gain	Antenna 1 : IFA Antenna Antenna 2 : IFA Antenna (The antenna peak gain of EUT is less than 6 dBi)		
Antenna Function Description		Ant. 1	Ant. 2
	802.11 a/n/ac SISO	V	V
	802.11 a/n/ac MIMO	V	V

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



Appendix A. Original Report

Please refer to Sporton report number FR552083E as below.



FCC RF Test Report

APPLICANT : Motorola Mobility, LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : 4036
FCC ID : IHDT56UA
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on May 20, 2015 and testing was completed on Jun. 30, 2015. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR552083E	Rev. 01	Initial issue of report	Jul. 13, 2015

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	2.1049 15.403(i)	26dB & 99% Bandwidth	-	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	FCC ≤ 24 dBm (depend on band)	Pass	-
3.3	15.407(a)	Power Spectral Density	FCC ≤ 11 dBm (depend on band)	Pass	-
3.4	15.407(b)	Unwanted Emissions	$\leq -17, -27$ dBm (depend on band)&15.209(a)	Pass	Under limit 0.53 dB at 5469.840 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 5.90 dB at 1.998 MHz
3.6	15.407(g)	Frequency Stability	Within Operation Band	Pass	-
3.7	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.8	15.203 & 15.407(a)	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.2 Manufacturer

Motorola Mobility, LLC

222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	4036
FCC ID	IHDT56UA
IMEI Code	990005740025664 (for AC Conducted Emission) 990005740064614 (for Radiated Spurious Emission)
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/NFC 2.4GHz WLAN 11b/g/n HT20 WLAN 11ac VHT20 5GHz WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth v3.0 EDR Bluetooth v4.1 - LE
HW Version	P2
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Accessory List	
AC Adapter	Brand Name : Motorola
	Model Name : SPN5886A
Battery	Brand Name : Motorola
	Model Name : FB55
Earphone	Brand Name : Motorola
	Model Name : 89719N

1.4 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
Tx/Rx Channel Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5700 MHz
Maximum Output Power	<5180 MHz ~ 5240 MHz> SISO <Ant. 1> 802.11a : 12.96 dBm / 0.0198 W 802.11n HT20 : 12.50 dBm / 0.0178 W 802.11n HT40 : 12.17 dBm / 0.0165 W 802.11ac VHT20: 12.58 dBm / 0.0181 W 802.11ac VHT40: 12.20 dBm / 0.0166 W 802.11ac VHT80: 9.24 dBm / 0.0084 W SISO <Ant. 2> 802.11a : 14.20 dBm / 0.0263 W 802.11n HT20 : 13.69 dBm / 0.0234 W 802.11n HT40 : 13.50 dBm / 0.0224 W 802.11ac VHT20: 13.89 dBm / 0.0245 W 802.11ac VHT40: 13.44 dBm / 0.0221 W 802.11ac VHT80: 10.69 dBm / 0.0117 W MIMO <Ant. 1 + 2> 802.11a : 16.25 dBm / 0.0422 W 802.11n HT20 : 16.35 dBm / 0.0432 W 802.11n HT40 : 16.01 dBm / 0.0399 W 802.11ac VHT20: 16.29 dBm / 0.0426 W 802.11ac VHT40: 15.93 dBm / 0.0392 W 802.11ac VHT80: 12.66 dBm / 0.0185 W



Product Specification subjective to this standard	
Maximum Output Power	<5260 MHz ~ 5320 MHz> SISO <Ant. 1> 802.11a : 13.47 dBm / 0.0222 W 802.11n HT20 : 12.77 dBm / 0.0189 W 802.11n HT40 : 12.46 dBm / 0.0176 W 802.11ac VHT20: 12.88 dBm / 0.0194 W 802.11ac VHT40: 12.16 dBm / 0.0164 W 802.11ac VHT80: 10.96 dBm / 0.0125 W SISO <Ant. 2> 802.11a : 14.25 dBm / 0.0266 W 802.11n HT20 : 13.97 dBm / 0.0249 W 802.11n HT40 : 13.74 dBm / 0.0237 W 802.11ac VHT20: 14.15 dBm / 0.0260 W 802.11ac VHT40: 13.40 dBm / 0.0219 W 802.11ac VHT80: 12.53 dBm / 0.0179 W MIMO <Ant. 1 + 2> 802.11a : 16.64 dBm / 0.0461 W 802.11n HT20 : 16.68 dBm / 0.0466 W 802.11n HT40 : 15.98 dBm / 0.0396 W 802.11ac VHT20: 16.62 dBm / 0.0459 W 802.11ac VHT40: 15.98 dBm / 0.0396 W 802.11ac VHT80: 14.83 dBm / 0.0304 W
	5500 MHz ~ 5700 MHz SISO <Ant. 1> 802.11a : 13.49 dBm / 0.0223 W 802.11n HT20 : 12.79 dBm / 0.0190 W 802.11n HT40 : 12.13 dBm / 0.0163 W 802.11ac VHT20: 12.58 dBm / 0.0181 W 802.11ac VHT40: 12.13 dBm / 0.0163 W 802.11ac VHT80: 10.82 dBm / 0.0121 W SISO <Ant. 2> 802.11a : 14.59 dBm / 0.0288 W 802.11n HT20 : 14.08 dBm / 0.0256 W 802.11n HT40 : 13.63 dBm / 0.0231 W 802.11ac VHT20: 14.09 dBm / 0.0256 W 802.11ac VHT40: 14.23 dBm / 0.0265 W 802.11ac VHT80: 12.76 dBm / 0.0189 W MIMO <Ant. 1 + 2> 802.11a : 16.68 dBm / 0.0466 W 802.11n HT20 : 16.48 dBm / 0.0445 W 802.11n HT40 : 16.03 dBm / 0.0401 W 802.11ac VHT20: 16.44 dBm / 0.0441 W 802.11ac VHT40: 16.20 dBm / 0.0417 W 802.11ac VHT80: 14.99 dBm / 0.0316 W

Product Specification subjective to this standard			
99% Occupied Bandwidth	<5150 MHz ~ 5250 MHz>		
	802.11a : 22.05 MHz		
	802.11n HT20 : 18.00 MHz		
	802.11n HT40 : 36.20 MHz		
	802.11ac VHT20 : 18.05 MHz		
	802.11ac VHT40 : 36.20 MHz		
	802.11ac VHT80 : 74.88 MHz		
	<5250 MHz ~ 5350 MHz>		
	802.11a : 20.70 MHz		
	802.11n HT20 : 18.20 MHz		
	802.11n HT40 : 36.30 MHz		
	802.11ac VHT20 : 18.50 MHz		
	802.11ac VHT40 : 36.20 MHz		
	802.11ac VHT80 : 74.88 MHz		
	<5470 MHz ~ 5725 MHz>		
802.11a : 18.60 MHz			
802.11n HT20 : 18.00 MHz			
802.11n HT40 : 36.20 MHz			
802.11ac VHT20 : 18.10 MHz			
802.11ac VHT40 : 36.30 MHz			
802.11ac VHT80 : 75.12 MHz			
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)		
Antenna Type /Gain	Antenna 1 : IFA Antenna Antenna 2 : IFA Antenna (The antenna peak gain of EUT is less than 6 dBi)		
Antenna Function Description			
		Ant. 1	Ant. 2
	802.11 a/n/ac SISO	V	V
	802.11 a/n/ac MIMO	V	V

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978		
Test Site No.	Sporton Site No.		
	TH02-HY	CO05-HY	03CH07-HY

Note: The test site complies with ANSI C63.4 2009 requirement.

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v01
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ FCC KDB 644545 D03 Guidance for IEEE 802.11ac New Rules v01
- ♦ KDB 648474 D03 Handset Wireless Chargers Battery Covers v01r02
- ♦ ANSI C63.10-2009

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. FCC permits the use of the 1.5 meter table as an alternative in C63.10-2013 through inquiry tracking number 961829.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conducted emission (150 kHz to 30 MHz) and radiated emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane) were recorded in this report.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.



2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38	5190	46	5230
	40	5200	48	5240
	42	5210		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54	5270	62	5310
	56	5280	64	5320
	58	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	120	5600
	102	5510	122	5610
	104	5520	124	5620
	106	5530	126	5630
	108	5540	128	5640
	110	5550	132	5660
	112	5560	134	5670
	116	5580	136	5680
	118	5590	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138	5690	144	5720
	142	5710		

Note: The above Frequency and Channel in boldface were 802.11n HT40.

2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test in the following tables. Final Output Power equals to Measured Output Power adds the duty factor.

SISO <Ant. 1>

Channel	Frequency	5GHz 802.11a Average Power (dBm)							
		Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 36	5180 MHz	12.96	12.93	12.91	12.94	12.91	11.97	11.10	10.99
CH 44	5220 MHz	12.92	12.87	12.88	12.91	12.89	11.85	11.01	10.88
CH 48	5240 MHz	12.89	12.81	12.87	12.83	12.86	11.75	10.86	10.92
CH 52	5260 MHz	12.94	12.89	12.91	12.93	12.93	11.91	11.06	10.89
CH 60	5300 MHz	13.43	13.41	13.40	13.40	13.39	12.25	11.35	11.30
CH 64	5320 MHz	13.47	13.46	13.45	13.45	13.44	12.23	11.32	11.18
CH 100	5500 MHz	13.49	13.48	13.48	13.47	13.47	12.20	11.32	11.39
CH 116	5580 MHz	12.90	12.84	12.82	12.89	12.88	11.89	11.24	11.07
CH 140	5700 MHz	12.81	12.75	12.70	12.78	12.76	11.70	10.88	10.82

Channel	Frequency	5GHz 802.11a Peak Power (dBm)							
		Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 36	5180 MHz	19.60	19.55	20.05	19.64	21.18	20.28	20.39	20.06
CH 44	5220 MHz	19.44	19.40	19.82	19.54	20.80	20.28	20.31	20.04
CH 48	5240 MHz	19.36	19.30	19.71	19.43	21.11	20.19	20.25	19.94
CH 52	5260 MHz	19.49	19.45	19.93	19.59	21.15	20.09	20.13	20.03
CH 60	5300 MHz	19.70	19.68	19.79	19.54	20.99	20.19	20.24	20.22
CH 64	5320 MHz	19.60	19.62	19.77	19.58	21.04	20.13	20.10	20.13
CH 100	5500 MHz	19.80	19.85	20.05	19.79	21.33	20.58	20.56	20.34
CH 116	5580 MHz	19.43	19.39	19.88	19.57	21.15	20.16	20.32	19.96
CH 140	5700 MHz	19.06	19.01	19.21	19.02	20.61	20.13	20.07	19.59



Channel	Frequency	5GHz 802.11n HT20 Average Power (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 36	5180 MHz	12.50	12.31	12.45	12.08	12.11	11.12	10.96	10.11
CH 44	5220 MHz	12.38	12.24	12.33	11.90	12.02	11.19	10.91	10.04
CH 48	5240 MHz	12.29	12.12	12.28	11.79	11.86	10.98	10.77	9.90
CH 52	5260 MHz	12.45	12.26	12.36	11.90	11.95	11.12	10.95	10.02
CH 60	5300 MHz	12.77	12.62	12.74	12.26	12.37	11.48	11.31	10.39
CH 64	5320 MHz	12.73	12.57	12.71	12.31	12.39	11.39	11.27	10.40
CH 100	5500 MHz	12.79	12.54	12.61	12.14	12.22	11.35	11.16	10.33
CH 116	5580 MHz	12.51	12.29	12.49	12.12	12.16	11.22	10.95	10.13
CH 140	5700 MHz	12.28	12.04	12.21	11.76	11.86	10.98	10.83	9.87

Channel	Frequency	5GHz 802.11n HT20 Peak Power (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 36	5180 MHz	19.55	19.45	19.38	20.43	20.49	20.22	20.69	19.16
CH 44	5220 MHz	19.26	19.21	19.13	20.60	20.47	20.21	20.64	19.07
CH 48	5240 MHz	19.24	19.18	19.18	20.52	20.43	20.06	20.65	19.01
CH 52	5260 MHz	19.14	19.11	19.13	20.37	20.49	20.07	20.59	19.15
CH 60	5300 MHz	19.36	19.32	19.29	20.40	20.51	20.26	20.53	20.36
CH 64	5320 MHz	19.34	19.31	19.33	20.59	20.47	20.29	20.52	19.33
CH 100	5500 MHz	19.28	19.21	19.25	20.65	20.61	20.29	20.63	19.22
CH 116	5580 MHz	19.14	19.01	19.15	20.37	20.43	20.22	20.43	19.12
CH 140	5700 MHz	18.93	18.89	18.91	20.15	20.17	19.62	20.16	18.75



Channel	Frequency	5GHz 802.11n HT40 Average Power (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 38	5190MHz	11.83	11.80	11.78	11.44	11.36	10.48	10.26	9.30
CH 46	5230MHz	12.17	12.10	12.15	11.41	11.46	10.60	10.56	9.51
CH 54	5270MHz	12.25	12.20	12.23	11.43	11.33	10.58	10.59	9.57
CH 62	5310MHz	12.46	12.45	12.42	11.76	11.76	10.84	10.73	9.72
CH 102	5510MHz	10.01	9.95	9.94	9.98	9.90	9.95	9.98	9.52
CH 110	5550MHz	12.13	12.11	12.10	11.39	11.44	10.44	10.48	9.58
CH 134	5670MHz	11.67	11.65	11.65	11.21	11.26	10.22	10.16	9.15

Channel	Frequency	5GHz 802.11n HT40 Peak Power (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 38	5190MHz	19.22	18.53	18.46	20.80	20.48	20.21	19.58	17.71
CH 46	5230MHz	19.36	18.96	18.60	19.96	19.99	19.36	19.27	17.45
CH 54	5270MHz	19.29	18.80	18.79	19.82	20.26	19.51	18.75	17.65
CH 62	5310MHz	19.48	19.37	19.38	20.74	20.67	20.36	19.88	18.30
CH 102	5510MHz	16.69	16.29	16.09	18.95	18.73	19.29	18.21	17.75
CH 110	5550MHz	19.23	18.93	18.40	20.03	19.80	19.47	18.84	17.19
CH 134	5670MHz	18.92	18.90	18.68	20.26	20.60	19.87	19.41	18.00

Channel	Frequency	5GHz 802.11ac VHT20 Average Power (dBm)								
		Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 36	5180 MHz	12.58	12.45	12.50	12.25	12.23	11.29	11.21	10.17	9.03
CH 44	5220 MHz	12.51	12.43	12.42	12.03	12.04	11.42	11.15	10.29	9.31
CH 48	5240 MHz	12.45	12.37	12.35	11.95	11.99	11.30	10.96	10.25	9.33
CH 52	5260 MHz	12.52	12.48	12.44	12.09	12.05	11.33	11.07	10.35	9.43
CH 60	5300 MHz	12.88	12.82	12.81	12.53	12.45	11.57	11.56	10.78	9.80
CH 64	5320 MHz	12.84	12.76	12.82	12.53	12.44	11.60	11.51	10.47	9.40
CH 100	5500 MHz	12.58	12.56	12.52	12.36	12.37	11.47	11.42	10.30	9.21
CH 116	5580 MHz	12.24	12.03	11.97	11.71	11.95	11.18	11.16	10.16	9.24
CH 140	5700 MHz	12.09	11.96	11.95	11.56	11.65	10.65	10.73	9.51	8.54

Channel	Frequency	5GHz 802.11ac VHT20 Peak Power (dBm)								
		Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 36	5180 MHz	19.39	19.70	19.52	20.74	20.78	20.80	20.94	19.56	18.56
CH 44	5220 MHz	19.37	19.63	19.42	20.55	20.87	20.40	20.91	19.13	19.07
CH 48	5240 MHz	19.27	19.54	19.35	20.70	20.42	20.36	20.82	19.02	18.59
CH 52	5260 MHz	19.28	19.65	19.45	20.79	20.61	20.32	20.76	19.06	18.80
CH 60	5300 MHz	19.55	19.80	19.66	20.77	20.58	20.52	20.61	19.43	18.07
CH 64	5320 MHz	19.44	19.81	19.65	20.71	20.73	20.57	21.03	19.54	18.24
CH 100	5500 MHz	19.22	19.73	19.62	20.93	21.17	20.61	21.06	19.66	19.24
CH 116	5580 MHz	18.91	19.14	18.88	20.32	20.25	19.92	20.26	18.67	18.83
CH 140	5700 MHz	18.70	18.70	18.63	20.24	20.37	20.00	20.41	19.21	18.74



Channel	Frequency	5GHz 802.11ac VHT40 Average Power (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 38	5190MHz	10.97	10.94	10.91	10.92	10.93	10.44	10.36	9.20	8.31	7.29
CH 46	5230MHz	12.20	12.15	12.18	11.38	11.48	10.24	10.56	9.53	8.91	8.04
CH 54	5270MHz	12.15	12.08	12.08	11.20	11.54	10.35	10.43	9.57	8.87	7.88
CH 62	5310MHz	12.16	12.08	12.12	11.70	11.73	10.81	10.73	9.59	8.67	7.50
CH 102	5510MHz	9.83	9.77	9.81	9.82	9.77	9.75	9.57	9.35	8.52	7.47
CH 110	5550MHz	12.13	12.04	12.12	11.16	11.50	10.39	10.28	9.49	8.89	8.00
CH 134	5670MHz	11.67	11.64	11.66	11.16	11.22	10.23	10.05	8.98	7.99	7.01

Channel	Frequency	5GHz 802.11ac VHT40 Peak Power (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 38	5190MHz	18.44	17.72	17.43	19.84	19.77	20.71	19.00	17.71	17.03	17.21
CH 46	5230MHz	19.39	18.76	18.72	20.08	19.96	20.52	18.74	17.75	16.74	16.60
CH 54	5270MHz	19.23	18.88	18.68	19.92	20.01	20.46	18.70	17.65	16.59	16.67
CH 62	5310MHz	19.34	19.22	18.85	20.73	20.61	20.66	19.84	18.52	17.23	17.42
CH 102	5510MHz	17.04	16.45	16.01	19.37	18.67	19.81	17.94	18.11	17.59	17.41
CH 110	5550MHz	19.26	18.85	18.58	19.89	20.06	20.64	18.66	17.73	16.82	16.58
CH 134	5670MHz	18.74	18.55	18.73	20.35	20.22	20.40	18.83	17.85	17.41	16.73

Channel	Frequency	5GHz 802.11ac VHT80 Average Power (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 42	5210MHz	9.24	9.21	9.18	9.18	9.23	9.19	9.11	8.26	7.38	7.32
CH 58	5290MHz	10.96	10.93	10.92	10.45	10.33	9.14	9.24	8.24	7.62	7.45
CH 106	5530MHz	9.26	9.23	9.20	9.19	9.22	9.22	9.21	8.41	7.66	7.61
CH 122	5610MHz	10.82	10.81	10.80	10.67	10.40	9.32	9.35	8.41	7.59	7.55

Channel	Frequency	5GHz 802.11ac VHT80 Peak Power (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 42	5210MHz	16.42	16.26	15.63	18.90	19.00	19.40	18.65	18.24	16.80	16.78
CH 58	5290MHz	18.17	17.93	18.15	20.11	20.16	18.37	18.31	18.15	17.28	16.85
CH 106	5530MHz	16.21	15.95	15.47	18.25	18.54	18.77	18.42	18.60	16.92	16.80
CH 122	5610MHz	17.97	17.93	17.96	20.09	20.10	18.73	18.76	18.20	16.95	16.95

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Channel	Frequency	5GHz 802.11a Average Power (dBm)							
		Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 36	5180 MHz	14.06	14.01	14.03	14.03	14.05	13.06	12.14	12.21
CH 44	5220 MHz	14.20	14.13	14.12	14.15	14.18	13.09	12.34	12.37
CH 48	5240 MHz	14.17	14.06	14.11	14.10	14.14	13.09	12.19	12.30
CH 52	5260 MHz	14.25	14.21	14.18	14.20	14.23	13.14	12.24	12.35
CH 60	5300 MHz	13.85	13.81	13.78	13.77	13.77	13.38	12.59	12.50
CH 64	5320 MHz	13.83	13.74	13.72	13.72	13.73	13.35	12.56	12.59
CH 100	5500 MHz	13.90	13.83	13.82	13.82	13.81	13.58	12.72	12.63
CH 116	5580 MHz	14.59	14.56	14.54	14.58	14.57	13.47	12.62	12.62
CH 140	5700 MHz	14.04	14.03	13.97	14.02	14.00	13.80	12.79	12.75

Channel	Frequency	5GHz 802.11a Peak Power (dBm)							
		Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 36	5180 MHz	19.78	19.72	19.84	19.62	20.33	19.66	19.64	19.70
CH 44	5220 MHz	19.85	19.82	19.91	19.76	20.52	19.82	19.79	19.82
CH 48	5240 MHz	19.67	19.77	19.86	19.71	20.30	19.50	19.53	19.61
CH 52	5260 MHz	19.84	19.86	19.92	19.86	20.41	19.62	19.58	19.65
CH 60	5300 MHz	19.82	19.78	19.99	19.78	20.58	19.92	19.95	19.88
CH 64	5320 MHz	19.72	19.69	19.83	19.72	20.54	19.80	19.82	19.79
CH 100	5500 MHz	19.91	19.95	20.10	19.96	20.84	20.39	20.37	20.41
CH 116	5580 MHz	20.43	20.48	20.51	20.46	21.00	20.23	20.25	20.22
CH 140	5700 MHz	20.05	20.20	20.30	20.08	20.90	20.14	20.20	20.22



Channel	Frequency	5GHz 802.11n HT20 Average Power (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 36	5180 MHz	13.50	13.49	13.49	13.22	13.13	12.27	12.18	11.15
CH 44	5220 MHz	13.69	13.65	13.68	13.37	13.34	12.55	12.49	11.51
CH 48	5240 MHz	13.65	13.54	13.59	13.25	13.30	12.49	12.44	11.44
CH 52	5260 MHz	13.73	13.68	13.63	13.40	13.35	12.48	12.48	11.48
CH 60	5300 MHz	13.97	13.91	13.88	13.58	13.59	12.67	12.68	11.76
CH 64	5320 MHz	13.86	13.76	13.83	13.50	13.42	12.61	12.51	12.48
CH 100	5500 MHz	14.08	14.05	14.05	13.48	13.42	12.57	12.42	11.47
CH 116	5580 MHz	13.96	13.81	13.95	13.44	13.47	12.68	12.55	11.51
CH 140	5700 MHz	14.06	13.91	14.05	13.66	13.69	12.69	12.64	11.58

Channel	Frequency	5GHz 802.11n HT20 Peak Power (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 36	5180 MHz	19.40	19.35	19.36	19.83	19.93	20.08	20.21	18.95
CH 44	5220 MHz	19.51	19.47	19.43	19.96	20.05	20.20	20.57	20.14
CH 48	5240 MHz	19.36	19.77	19.55	19.85	19.94	20.12	20.51	20.05
CH 52	5260 MHz	19.44	19.83	19.73	20.13	20.25	20.27	20.62	20.13
CH 60	5300 MHz	19.73	19.96	19.87	20.29	20.42	20.17	20.64	19.04
CH 64	5320 MHz	19.64	19.62	19.61	20.37	20.38	20.38	20.35	20.51
CH 100	5500 MHz	19.98	19.93	19.95	20.40	20.30	20.38	20.37	19.93
CH 116	5580 MHz	19.91	20.12	19.82	20.31	20.40	20.41	20.51	19.97
CH 140	5700 MHz	20.00	19.85	19.95	19.98	19.98	20.33	20.42	19.95



Channel	Frequency	5GHz 802.11n HT40 Average Power (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 38	5190MHz	12.94	12.88	12.89	12.33	12.42	11.41	11.44	10.33
CH 46	5230MHz	13.50	13.45	13.46	12.54	12.55	11.91	11.67	10.64
CH 54	5270MHz	13.57	13.53	13.52	12.52	12.52	11.67	11.71	10.92
CH 62	5310MHz	13.74	13.63	13.61	12.57	12.67	11.77	11.74	10.67
CH 102	5510MHz	11.25	11.22	11.24	11.15	11.21	11.16	11.14	11.01
CH 110	5550MHz	13.63	13.62	13.60	12.76	12.78	11.84	11.95	11.80
CH 134	5670MHz	13.54	13.52	13.53	12.83	12.89	11.90	11.94	10.92

Channel	Frequency	5GHz 802.11n HT40 Peak Power (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 38	5190MHz	19.16	19.07	18.93	19.91	20.07	19.80	19.83	18.11
CH 46	5230MHz	19.86	19.32	19.29	20.09	19.92	19.39	20.19	18.13
CH 54	5270MHz	19.65	19.34	19.44	20.27	20.32	20.23	20.15	18.26
CH 62	5310MHz	19.94	19.69	19.78	20.30	20.41	20.30	19.86	19.53
CH 102	5510MHz	18.12	17.83	17.67	19.70	20.15	20.17	19.99	19.57
CH 110	5550MHz	19.85	19.76	19.83	20.42	20.40	20.46	20.14	20.01
CH 134	5670MHz	20.00	19.91	19.97	20.72	20.58	20.57	20.40	18.21



Channel	Frequency	5GHz 802.11ac VHT20 Average Power (dBm)								
		Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 36	5180 MHz	13.74	13.42	13.61	13.14	13.19	12.33	12.23	11.13	10.15
CH 44	5220 MHz	13.89	13.70	13.88	13.38	13.32	12.54	12.45	11.46	10.63
CH 48	5240 MHz	13.84	13.75	13.82	13.26	13.28	12.44	12.38	11.48	10.56
CH 52	5260 MHz	13.96	13.72	13.80	13.36	13.24	12.37	12.36	11.34	10.47
CH 60	5300 MHz	14.15	13.67	13.85	13.45	13.30	12.44	12.42	11.39	10.36
CH 64	5320 MHz	14.01	13.80	13.94	13.40	13.42	12.66	12.53	11.40	10.41
CH 100	5500 MHz	14.09	13.94	13.97	13.75	13.71	12.99	12.88	11.78	10.80
CH 116	5580 MHz	14.01	13.83	13.91	13.71	13.69	12.82	12.69	11.63	10.67
CH 140	5700 MHz	14.04	13.75	13.96	13.68	13.60	12.63	12.49	11.50	10.49

Channel	Frequency	5GHz 802.11ac VHT20 Peak Power (dBm)								
		Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 36	5180 MHz	19.63	19.49	19.36	20.05	19.96	19.97	20.30	19.30	19.29
CH 44	5220 MHz	19.68	19.65	19.64	19.88	19.76	19.99	20.66	20.12	18.11
CH 48	5240 MHz	19.58	19.78	19.57	20.05	20.15	20.09	20.56	19.99	18.44
CH 52	5260 MHz	19.67	19.85	19.67	20.07	20.13	20.02	20.58	19.93	18.17
CH 60	5300 MHz	19.95	19.69	19.71	20.18	20.24	20.16	20.64	19.65	18.63
CH 64	5320 MHz	19.92	19.90	19.85	20.30	20.25	20.32	20.71	19.61	19.58
CH 100	5500 MHz	19.86	19.81	19.84	20.51	20.63	20.77	20.64	20.72	19.54
CH 116	5580 MHz	19.89	19.68	19.81	20.48	20.55	20.47	20.36	20.64	18.96
CH 140	5700 MHz	19.93	19.81	19.91	20.33	20.33	20.15	20.32	20.00	18.28



Channel	Frequency	5GHz 802.11ac VHT40 Average Power (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 38	5190MHz	12.12	12.09	12.08	12.04	11.99	11.32	11.39	10.26	9.31	8.30
CH 46	5230MHz	13.44	13.39	13.41	12.53	12.74	11.60	11.71	10.88	9.91	9.16
CH 54	5270MHz	13.40	13.35	13.39	12.55	12.68	11.61	11.96	10.61	9.94	8.79
CH 62	5310MHz	13.11	13.07	13.07	12.63	12.66	11.61	11.67	10.63	9.59	8.64
CH 102	5510MHz	11.22	11.13	11.17	11.13	11.18	11.14	11.10	10.91	9.79	8.94
CH 110	5550MHz	13.47	13.44	13.46	12.69	12.82	11.82	11.90	11.05	9.72	9.22
CH 134	5670MHz	14.23	14.22	14.21	13.49	13.45	12.41	12.49	11.47	10.49	9.37

Channel	Frequency	5GHz 802.11ac VHT40 Peak Power (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 38	5190MHz	18.90	18.49	18.53	19.95	19.99	20.10	19.86	19.10	17.96	18.30
CH 46	5230MHz	19.55	19.32	19.37	19.98	19.88	20.14	20.22	17.97	17.38	17.65
CH 54	5270MHz	19.71	19.34	19.65	20.34	20.49	20.43	20.02	18.58	17.52	18.78
CH 62	5310MHz	19.55	19.34	19.45	20.42	20.41	20.41	19.85	19.21	18.46	19.16
CH 102	5510MHz	18.46	18.15	17.67	20.29	20.27	20.42	19.51	18.68	18.65	18.55
CH 110	5550MHz	19.87	19.83	19.82	20.77	20.67	20.65	20.05	18.48	18.69	18.02
CH 134	5670MHz	19.89	19.85	19.84	20.54	20.75	20.65	20.13	18.48	18.44	18.24

Channel	Frequency	5GHz 802.11ac VHT80 Average Power (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 42	5210MHz	10.69	10.65	10.66	10.53	10.68	10.63	10.56	9.70	8.50	8.48
CH 58	5290MHz	12.53	12.40	12.45	11.63	11.81	10.74	10.65	9.74	8.60	8.59
CH 106	5530MHz	11.31	11.11	11.20	11.16	11.15	11.11	11.25	10.39	9.06	9.09
CH 122	5610MHz	12.76	12.70	12.70	12.28	12.36	11.38	11.29	10.45	9.21	9.15

Channel	Frequency	5GHz 802.11ac VHT80 Peak Power (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 42	5210MHz	17.92	17.33	17.21	19.67	19.54	19.84	19.36	19.16	17.98	17.94
CH 58	5290MHz	19.24	19.22	19.15	20.16	20.22	20.06	19.60	19.31	18.11	18.08
CH 106	5530MHz	18.61	17.85	17.86	20.38	20.41	20.56	19.40	19.24	18.19	18.30
CH 122	5610MHz	19.33	19.30	19.30	20.46	20.40	20.22	19.29	18.61	18.15	18.26

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Channel	Frequency	5GHz 802.11a Average Power (dBm)							
		Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 36	5180 MHz	16.25	16.20	16.19	16.17	16.22	15.93	14.98	14.86
CH 44	5220 MHz	16.22	16.18	16.16	16.15	16.18	15.82	15.00	14.93
CH 48	5240 MHz	16.18	16.13	16.12	16.11	16.11	15.76	14.87	14.86
CH 52	5260 MHz	16.14	16.14	16.12	16.11	16.12	15.92	15.82	15.76
CH 60	5300 MHz	16.64	16.60	16.57	16.56	16.56	16.15	15.23	15.09
CH 64	5320 MHz	16.59	16.56	16.54	16.54	16.53	16.06	15.11	15.05
CH 100	5500 MHz	16.68	16.65	16.61	16.61	16.61	15.98	15.01	14.85
CH 116	5580 MHz	16.27	16.25	16.23	16.22	16.21	15.85	14.97	14.83
CH 140	5700 MHz	16.58	16.40	16.40	16.51	16.54	15.82	14.82	14.76

Channel	Frequency	5GHz 802.11a Peak Power (dBm) (800ns)							
		Data Rate							
		6 Mbps	9 Mbps	12 Mbps	18 Mbps	24 Mbps	36 Mbps	48 Mbps	54 Mbps
CH 36	5180 MHz	22.27	22.27	22.40	22.25	23.19	23.09	23.04	22.87
CH 44	5220 MHz	22.33	22.30	22.36	22.28	23.21	23.19	23.09	23.04
CH 48	5240 MHz	22.28	22.15	21.21	22.39	23.16	22.81	23.15	22.87
CH 52	5260 MHz	22.20	22.21	22.30	22.17	23.07	22.99	23.04	23.14
CH 60	5300 MHz	22.43	22.47	22.61	22.46	23.25	23.01	23.08	23.09
CH 64	5320 MHz	22.45	22.44	22.84	22.38	23.33	23.26	23.34	22.97
CH 100	5500 MHz	22.64	22.57	22.82	22.61	23.63	23.20	22.95	22.97
CH 116	5580 MHz	22.33	22.31	22.42	22.29	23.11	22.80	22.90	22.70
CH 140	5700 MHz	21.92	21.92	22.02	21.78	22.78	22.96	22.89	22.65

Channel	Frequency	5GHz 802.11n HT20 Average Power (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 36	5180 MHz	16.32	16.29	16.29	16.00	15.81	14.91	14.81	13.85
CH 44	5220 MHz	16.35	16.31	16.30	16.15	15.95	15.08	15.02	14.16
CH 48	5240 MHz	16.32	16.28	16.26	16.02	15.76	14.99	14.94	14.04
CH 52	5260 MHz	16.40	16.39	16.38	16.06	15.99	15.01	15.01	14.11
CH 60	5300 MHz	16.68	16.22	16.29	15.81	15.87	14.97	14.89	14.06
CH 64	5320 MHz	16.64	16.50	16.51	16.20	16.05	15.17	15.13	14.08
CH 100	5500 MHz	16.48	16.42	16.44	16.07	16.01	15.21	15.23	14.10
CH 116	5580 MHz	16.29	16.27	16.24	15.84	15.72	15.11	14.82	14.08
CH 140	5700 MHz	16.33	16.32	16.31	16.02	15.87	14.89	14.77	14.30

Channel	Frequency	5GHz 802.11n HT20 Peak Power (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 36	5180 MHz	22.31	22.25	22.42	23.20	23.15	23.08	23.18	22.40
CH 44	5220 MHz	22.24	22.38	22.37	22.94	23.24	23.12	23.07	22.72
CH 48	5240 MHz	22.16	22.17	22.38	23.10	23.25	22.91	22.93	22.71
CH 52	5260 MHz	22.39	22.16	22.33	22.94	23.13	22.92	23.02	22.79
CH 60	5300 MHz	22.43	22.12	22.32	23.01	23.11	22.81	23.01	22.63
CH 64	5320 MHz	22.53	22.45	22.36	23.18	23.27	23.21	23.24	22.60
CH 100	5500 MHz	22.38	22.56	22.69	23.15	23.41	23.45	23.36	22.74
CH 116	5580 MHz	22.28	22.30	22.58	23.16	23.30	23.20	23.26	22.76
CH 140	5700 MHz	22.24	22.15	22.45	23.14	23.19	23.23	22.81	22.61



Channel	Frequency	5GHz 802.11n HT40 Average Power (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 38	5190MHz	15.40	15.37	15.37	15.00	15.01	13.91	13.93	13.85
CH 46	5230MHz	16.01	16.00	15.83	15.16	15.06	14.28	14.38	13.31
CH 54	5270MHz	15.97	15.95	15.96	15.16	15.06	14.37	13.24	13.39
CH 62	5310MHz	15.98	15.94	15.85	15.30	15.28	14.26	14.41	13.31
CH 102	5510MHz	13.49	13.46	13.39	13.39	13.47	13.45	13.47	12.94
CH 110	5550MHz	16.03	15.89	15.82	15.32	15.42	14.31	14.39	13.46
CH 134	5670MHz	15.87	15.84	15.86	15.19	15.25	14.15	14.24	13.14

Channel	Frequency	5GHz 802.11n HT40 Peak Power (dBm)							
		Data Rate							
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 38	5190MHz	21.82	21.79	21.69	22.75	22.69	22.05	22.06	22.25
CH 46	5230MHz	22.17	22.10	21.99	22.90	22.99	22.41	22.23	22.31
CH 54	5270MHz	22.30	21.92	21.85	23.00	22.98	22.44	22.09	22.33
CH 62	5310MHz	22.38	22.30	22.23	23.30	23.35	22.93	22.62	22.41
CH 102	5510MHz	20.30	20.24	20.16	22.31	21.85	21.79	21.84	21.25
CH 110	5550MHz	22.30	21.97	22.04	23.19	23.13	22.57	22.41	21.59
CH 134	5670MHz	22.12	22.08	22.05	23.23	23.21	22.69	22.46	21.50



Channel	Frequency	5GHz 802.11ac VHT20 Average Power (dBm)								
		Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 36	5180 MHz	16.24	15.94	16.11	15.75	15.73	14.87	14.73	13.66	12.67
CH 44	5220 MHz	16.29	16.12	16.26	15.82	15.73	15.04	14.84	13.91	12.91
CH 48	5240 MHz	16.18	16.00	16.07	15.71	15.55	14.80	14.59	13.60	12.49
CH 52	5260 MHz	16.32	16.10	16.25	15.89	15.82	14.93	14.65	13.67	12.72
CH 60	5300 MHz	16.62	16.39	16.41	15.89	15.93	15.20	15.02	14.03	13.11
CH 64	5320 MHz	16.60	16.37	16.47	16.00	15.97	15.16	15.02	13.95	12.97
CH 100	5500 MHz	16.44	16.41	16.43	16.21	16.17	15.34	15.23	14.16	13.12
CH 116	5580 MHz	16.26	16.21	16.21	16.07	15.98	15.31	14.94	13.87	13.05
CH 140	5700 MHz	16.21	16.06	16.14	15.76	15.79	14.85	14.76	13.63	12.74

Channel	Frequency	5GHz 802.11ac VHT20 Peak Power (dBm)								
		Data Rate								
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 36	5180 MHz	22.15	22.29	22.31	23.04	23.12	23.05	23.34	22.35	21.58
CH 44	5220 MHz	22.29	22.54	22.38	23.03	23.06	22.85	23.37	22.50	21.88
CH 48	5240 MHz	22.08	22.25	22.27	23.04	22.96	22.95	23.22	22.42	21.66
CH 52	5260 MHz	22.20	21.93	21.98	23.02	23.07	22.99	23.15	22.30	21.86
CH 60	5300 MHz	22.38	22.42	22.39	23.04	23.21	23.14	23.19	22.34	22.41
CH 64	5320 MHz	22.45	22.56	22.45	23.13	23.15	23.13	23.26	22.39	22.49
CH 100	5500 MHz	22.45	22.42	22.36	23.33	23.37	23.23	23.46	22.90	21.25
CH 116	5580 MHz	22.33	22.48	22.49	23.19	23.12	22.95	23.37	22.74	21.64
CH 140	5700 MHz	22.44	22.38	22.43	23.20	23.27	23.25	23.18	22.41	21.89

Channel	Frequency	5GHz 802.11ac VHT40 Average Power (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 38	5190MHz	14.24	14.22	14.21	14.23	14.20	13.93	13.84	12.76	11.88	10.87
CH 46	5230MHz	15.93	15.91	15.89	14.98	15.14	14.29	14.22	13.23	12.35	11.59
CH 54	5270MHz	15.98	15.97	15.92	15.13	15.09	14.18	14.22	13.26	12.41	11.55
CH 62	5310MHz	15.53	15.48	15.47	15.05	14.99	14.26	14.16	13.14	12.15	11.64
CH 102	5510MHz	13.37	13.22	13.20	13.24	13.34	13.34	13.33	13.25	12.32	11.28
CH 110	5550MHz	15.98	15.95	15.96	15.21	15.14	14.29	14.28	13.34	12.26	11.36
CH 134	5670MHz	16.20	16.13	16.19	15.51	15.44	14.52	14.47	13.46	12.40	11.31

Channel	Frequency	5GHz 802.11ac VHT40 Peak Power (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 38	5190MHz	21.21	20.93	20.76	22.41	22.26	22.74	22.00	20.88	20.35	20.51
CH 46	5230MHz	22.17	22.08	21.96	22.54	22.34	22.78	22.03	20.59	20.22	20.04
CH 54	5270MHz	22.21	21.98	21.90	22.66	22.75	22.96	21.94	20.56	20.22	19.99
CH 62	5310MHz	22.25	21.84	21.85	22.84	22.75	23.23	22.60	21.74	21.00	21.45
CH 102	5510MHz	20.48	19.98	19.85	22.25	21.96	22.65	21.77	21.17	20.91	20.77
CH 110	5550MHz	22.24	22.13	22.04	22.90	22.86	23.00	22.38	20.90	20.45	20.32
CH 134	5670MHz	22.23	22.14	22.08	23.23	23.38	23.24	22.40	20.98	20.68	20.38

Channel	Frequency	5GHz 802.11ac VHT80 Average Power (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 42	5210MHz	12.66	12.43	12.40	12.59	12.62	12.64	12.63	11.95	10.95	10.94
CH 58	5290MHz	14.83	14.80	14.82	14.19	14.17	13.09	12.96	12.10	11.19	11.08
CH 106	5530MHz	12.94	12.90	12.89	12.87	12.87	12.91	12.90	12.31	11.52	11.38
CH 122	5610MHz	14.99	14.98	14.97	14.64	14.56	13.60	13.37	12.43	11.55	11.46

Channel	Frequency	5GHz 802.11ac VHT80 Peak Power (dBm)									
		Data Rate									
		MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 42	5210MHz	19.62	19.31	19.30	21.96	22.02	22.10	21.53	21.19	20.27	20.37
CH 58	5290MHz	21.67	21.45	21.42	23.07	23.03	22.06	21.66	21.73	20.59	20.42
CH 106	5530MHz	20.04	19.71	19.92	21.56	21.82	21.89	21.00	21.30	20.70	20.56
CH 122	5610MHz	21.51	21.40	21.42	22.98	23.05	22.23	21.60	21.01	20.29	20.34

Note: MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.

2.3 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table described in section 2.2.

Single Antenna

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

MIMO Antenna

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS8
802.11n HT40	MCS8
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + MP3 + Earphone + Adapter



Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5600 MHz and 5650-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5600 MHz and 5650-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5600 MHz and 5650-5725MHz
		802.11n HT40	802.11n HT40	802.11n HT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142



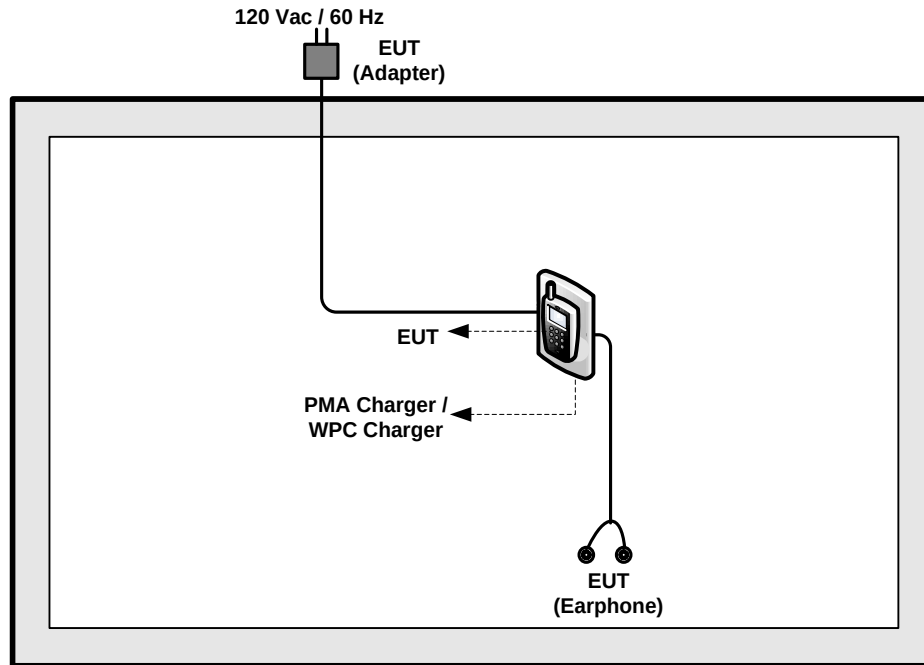
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5600 MHz and 5650-5725MHz
		802.11ac VHT20	802.11ac VHT20	802.11ac VHT20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5600 MHz and 5650-5725MHz
		802.11ac VHT40	802.11ac VHT40	802.11ac VHT40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

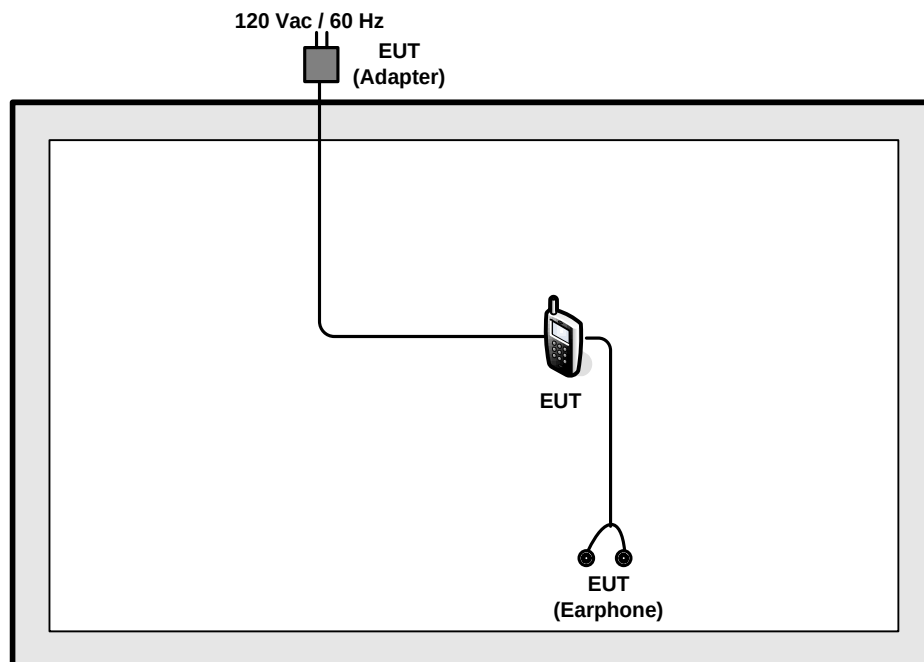
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5600 MHz and 5650-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	-
M	Middle	42	58	106
H	High	-	-	-
Straddle		-	-	138

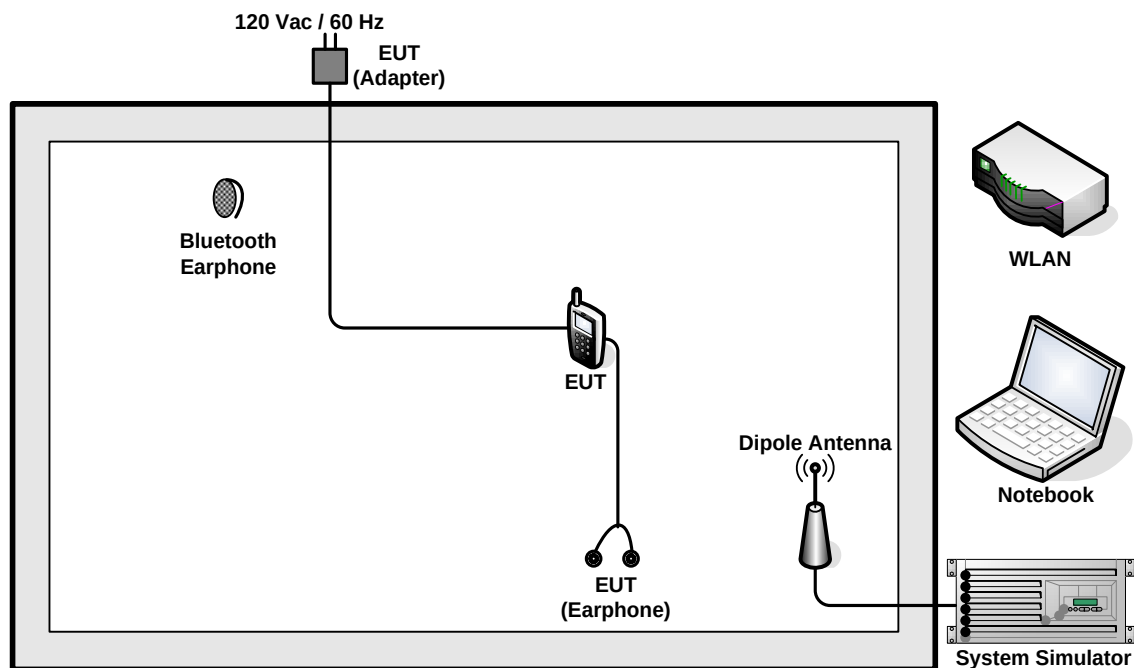
2.4 Connection Diagram of Test System

<WLAN Tx Mode with PMA Charger / WPC Charger>



<WLAN Tx Mode with Adapter>



<AC Conducted Emission Mode>

2.5 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	D-Link	DIR-865L	KA2IR865LA1	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	PMA	Duracell Powermat	M-C 18B-518A	N/A	N/A	N/A
6.	WPC	Samsung	EP-P1001EWE	A3LEPP100IJWU	N/A	N/A
7.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A



2.6 EUT Operation Test Setup

For WLAN function, programmed RF utility, "QRCT" installed in the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

2.7 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

For Straddle Channel, U-NII procedures were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

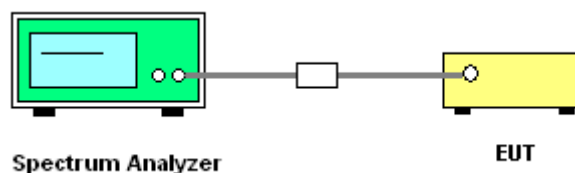
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1MHz and set the Video bandwidth (VBW) $\geq 3 * \text{RBW}$.
8. Measure and record the results in the test report.

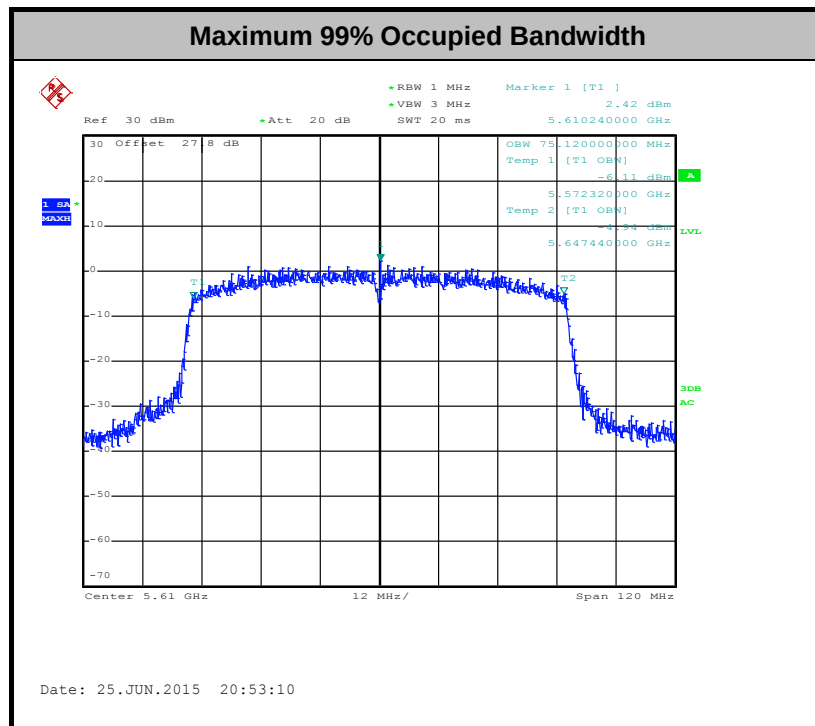
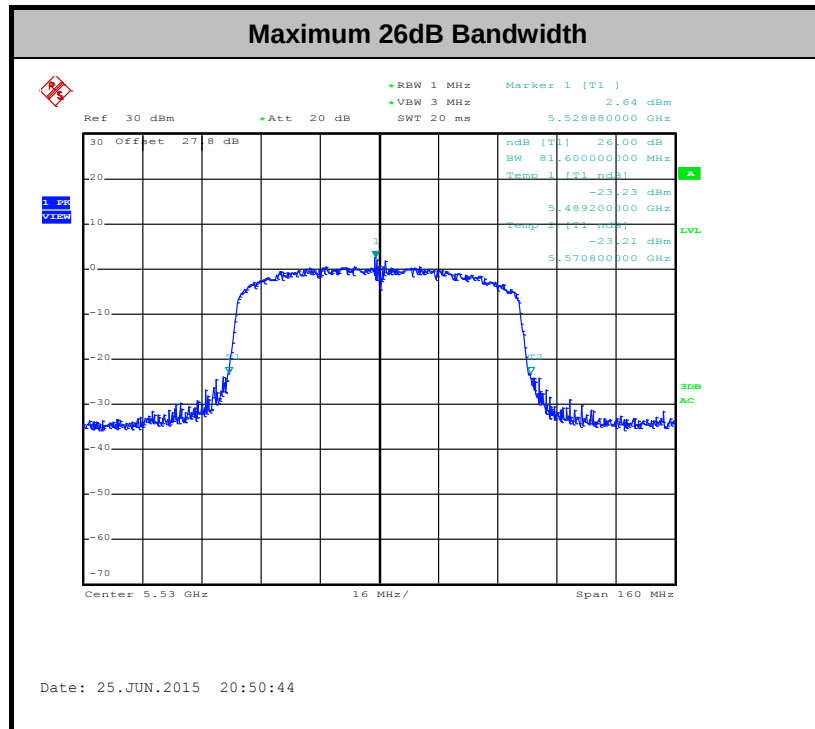
3.1.4 Test Setup





3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, U-NII procedures and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.

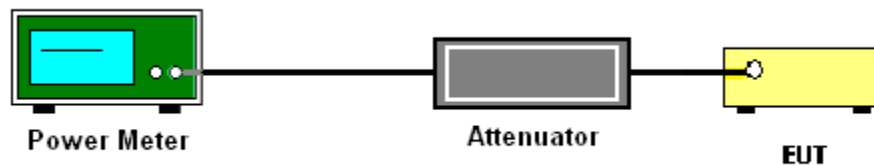
Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.

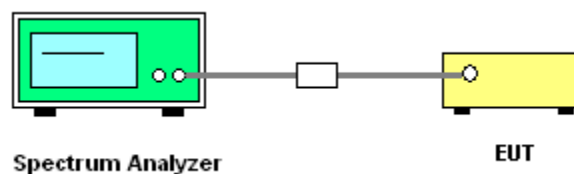
For straddle channel, the testing follows Method SA-3 (RMS detection with max hold) of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.

3.2.4 Test Setup

For normal channel:



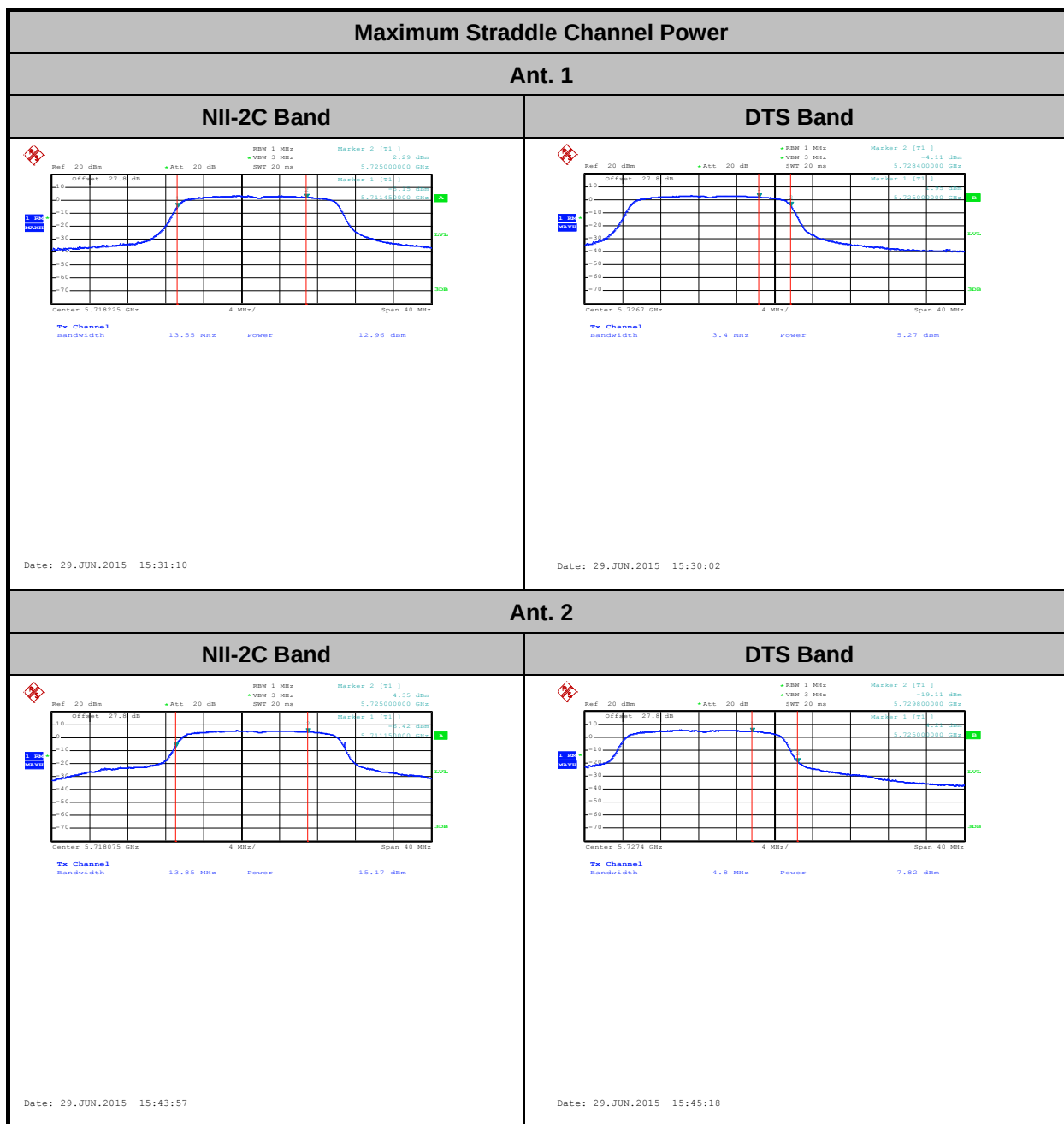
For straddle channel:





3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For Straddle Channel, U-NII procedures and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.

Section F) Maximum power spectral density.

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

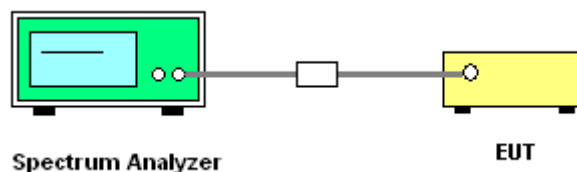
1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
 - Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
4. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (1): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

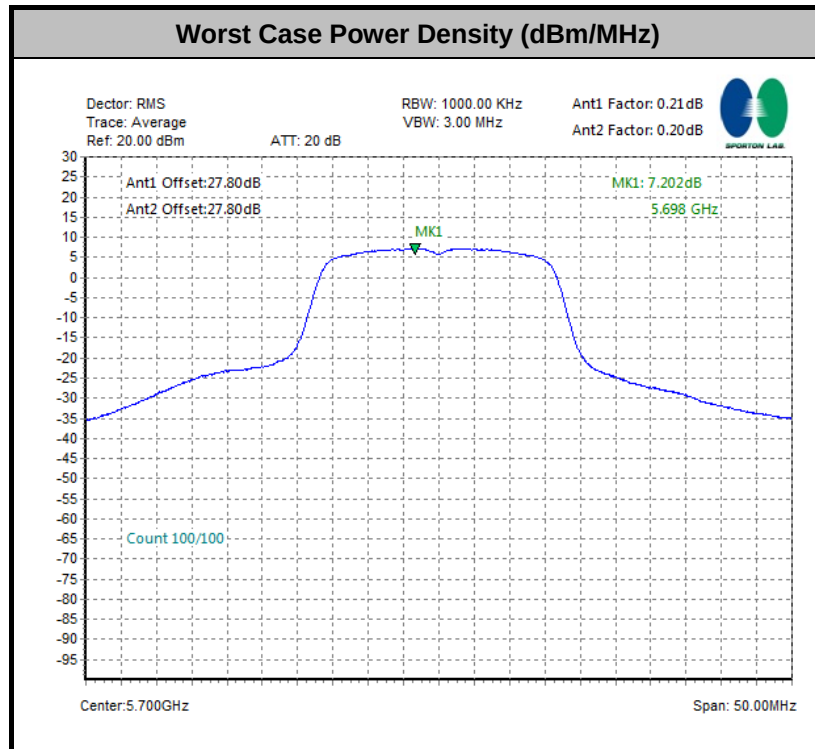
3.3.4 Test Setup





3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



Note: Average Power Density (dB) = Measured value+ Duty Factor

3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part15.205.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \text{ } \mu\text{V/m, where P is the eirp (Watts)}$$

EIRP (dBm)	Field Strength at 3m (dBμV/m)
-17	78.3
- 27	68.3

- (3) KDB789033 v01 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

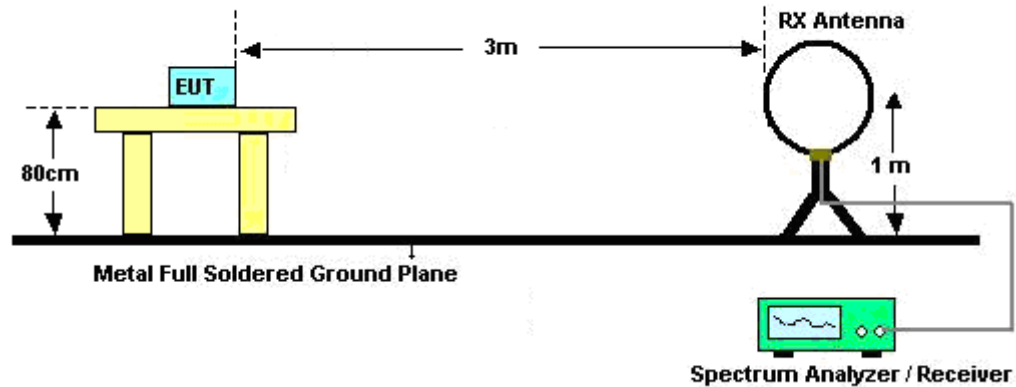
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
0+1	5GHz 802.11a for Ant 1	98.21	-	-	10Hz
0+1	5GHz 802.11a for Ant 2	98.21	-	-	10Hz
0+1	5GHz 802.11n HT20 for Ant 1	90.83	990	1.01	3kHz
0+1	5GHz 802.11n HT20 for Ant 2	90.83	990	1.01	3kHz
0+1	5GHz 802.11n HT40 for Ant 1	83	498	2.01	3kHz
0+1	5GHz 802.11n HT40 for Ant 2	83.84	498	2.01	3kHz
0+1	5GHz 802.11ac VHT20 for Ant 1	95.1	1940	0.52	1kHz
0+1	5GHz 802.11ac VHT20 for Ant 2	95.1	1940	0.52	1kHz
0+1	5GHz 802.11ac VHT40 for Ant 1	90.48	950	1.05	3kHz
0+1	5GHz 802.11ac VHT40 for Ant 2	91.43	960	1.04	3kHz
0+1	5GHz 802.11ac VHT80 for Ant 1	82.98	468	2.14	3kHz
0+1	5GHz 802.11ac VHT80 for Ant 2	82.98	468	2.14	3kHz

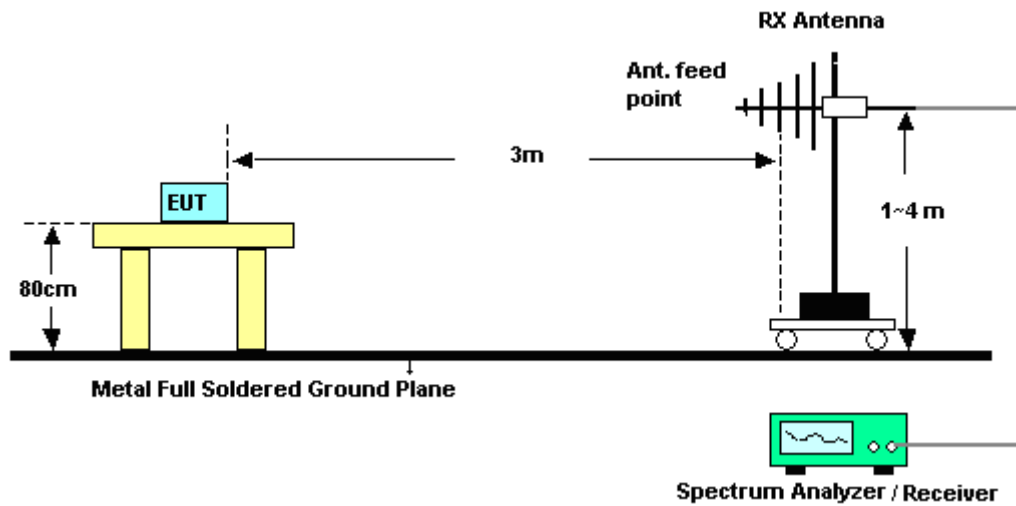
- The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
- For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

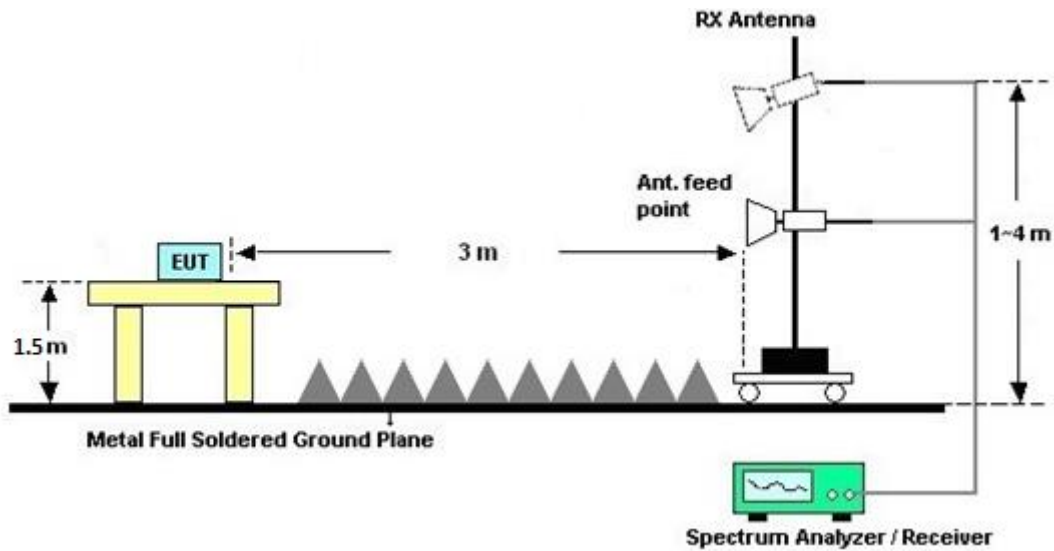
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.4.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

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 reported.

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix B.

3.4.7 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

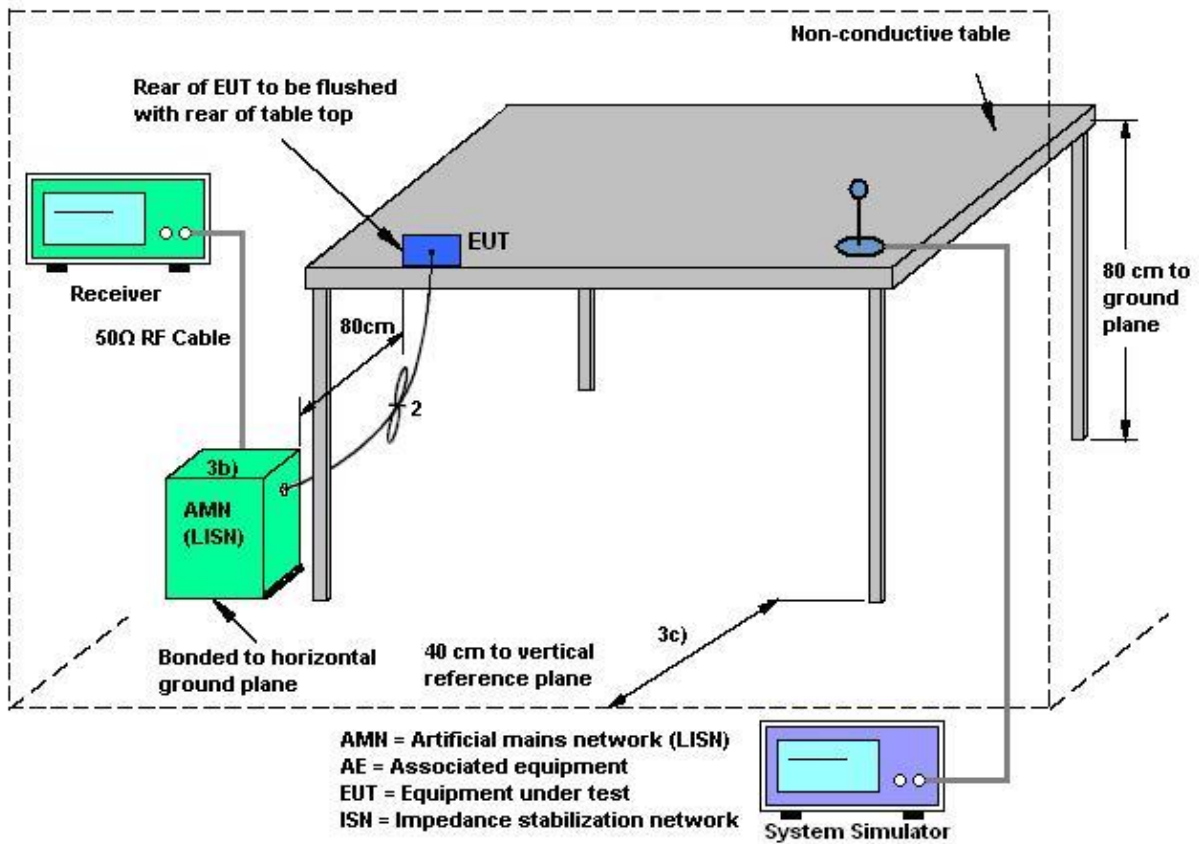
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

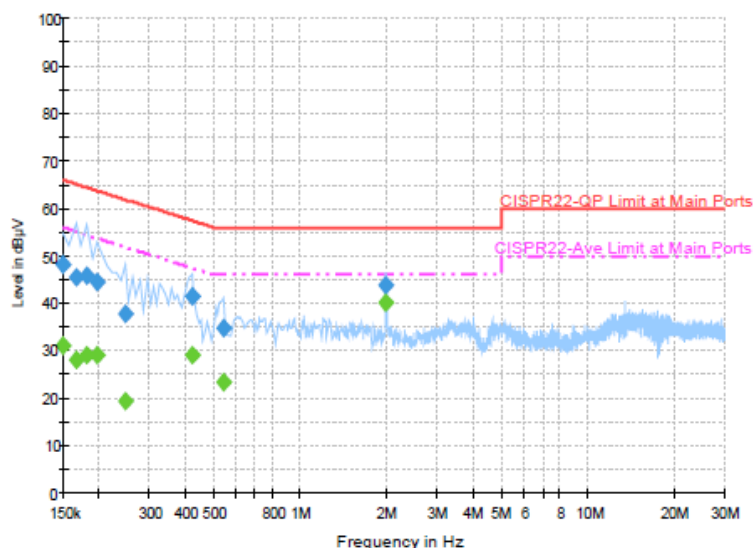
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	23~25°C
Test Engineer :	Eric Jeng	Relative Humidity :	58~59%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + MP3 + Earphone + Adapter		



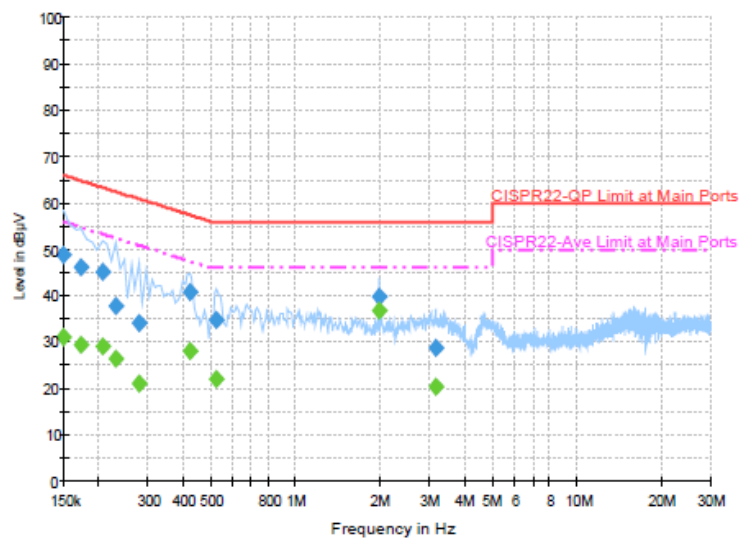
Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	48.0	Off	L1	19.5	18.0	66.0
0.166000	45.6	Off	L1	19.4	19.6	65.2
0.182000	45.7	Off	L1	19.5	18.7	64.4
0.198000	44.6	Off	L1	19.4	19.1	63.7
0.246000	37.6	Off	L1	19.5	24.3	61.9
0.422000	41.5	Off	L1	19.5	15.9	57.4
0.542000	34.6	Off	L1	19.4	21.4	56.0
1.998000	44.0	Off	L1	19.7	12.0	56.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	31.1	Off	L1	19.5	24.9	56.0
0.166000	28.2	Off	L1	19.4	27.0	55.2
0.182000	29.1	Off	L1	19.5	25.3	54.4
0.198000	29.0	Off	L1	19.4	24.7	53.7
0.246000	19.3	Off	L1	19.5	32.6	51.9
0.422000	29.1	Off	L1	19.5	18.3	47.4
0.542000	23.4	Off	L1	19.4	22.6	46.0
1.998000	40.1	Off	L1	19.7	5.9	46.0

Test Mode :	Mode 1	Temperature :	23~25°C
Test Engineer :	Eric Jeng	Relative Humidity :	58~59%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + MP3 + Earphone + Adapter		


Final Result : QuasiPeak

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	48.7	Off	N	19.5	17.3	66.0
0.174000	46.2	Off	N	19.5	18.6	64.8
0.206000	45.0	Off	N	19.4	18.4	63.4
0.230000	37.8	Off	N	19.6	24.6	62.4
0.278000	34.1	Off	N	19.4	26.8	60.9
0.422000	40.7	Off	N	19.5	16.7	57.4
0.526000	34.8	Off	N	19.4	21.2	56.0
1.998000	39.8	Off	N	19.7	16.2	56.0
3.150000	28.7	Off	N	19.7	27.3	56.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	31.1	Off	N	19.5	24.9	56.0
0.174000	29.4	Off	N	19.5	25.4	54.8
0.206000	29.0	Off	N	19.4	24.4	53.4
0.230000	26.4	Off	N	19.6	26.0	52.4
0.278000	21.1	Off	N	19.4	29.8	50.9
0.422000	28.1	Off	N	19.5	19.3	47.4
0.526000	22.2	Off	N	19.4	23.8	46.0
1.998000	36.9	Off	N	19.7	9.1	46.0
3.150000	20.5	Off	N	19.7	25.5	46.0

3.6 Frequency Stability Measurement

3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

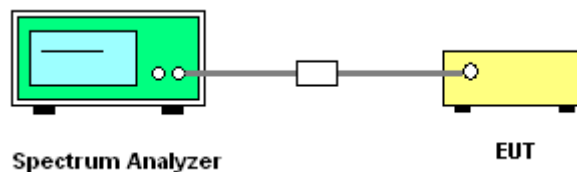
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

3.6.4 Test Setup



3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.



3.7 Automatically Discontinue Transmission

3.7.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.7.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.7.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

3.8 Antenna Requirements

3.8.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2) ,if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.8.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

The EUT supports CDD mode.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.



			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant 1 (dBi)	Ant 2 (dBi)				
Band I	-0.80	-4.70	0.48	0.48	0.00	0.00
Band II	-0.80	-4.50	0.56	0.56	0.00	0.00
Band III	-0.90	-3.70	0.82	0.82	0.00	0.00

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1218006	300MHz~40GHz	Oct. 18, 2014	Jun. 10, 2015~ Jul. 01, 2015	Oct. 17, 2015	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Oct. 17, 2014	Jun. 10, 2015~ Jul. 01, 2015	Oct. 16, 2015	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1126017	300MHz~40GHz	Oct. 18, 2014	Jun. 10, 2015~ Jul. 01, 2015	Oct. 17, 2015	Conducted (TH05-HY)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz ~ 1GHz	Sep. 27, 2014	Jun. 19, 2015~ Jun. 24, 2015	Sep. 26, 2015	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 19, 2014	Jun. 19, 2015~ Jun. 24, 2015	Aug. 18, 2015	Radiation (03CH07-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2014	Jun. 19, 2015~ Jun. 24, 2015	Aug. 29, 2015	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jul. 28, 2014	Jun. 19, 2015~ Jun. 24, 2015	Jul. 27, 2015	Radiation (03CH07-HY)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 03, 2014	Jun. 19, 2015~ Jun. 24, 2015	Nov. 02, 2015	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz ~ 18GHz	Apr. 20, 2015	Jun. 19, 2015~ Jun. 24, 2015	Apr. 19, 2016	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1000MHz	Mar. 12, 2015	Jun. 19, 2015~ Jun. 24, 2015	Mar. 11, 2016	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Oct. 21, 2014	Jun. 19, 2015~ Jun. 24, 2015	Oct. 20, 2015	Radiation (03CH07-HY)
Signal Analyzer	Rohde & Schwarz	FSV 30	101749	10Hz~30GHz	Mar. 10, 2015	Jun. 19, 2015~ Jun. 24, 2015	Mar. 09, 2016	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Jun. 19, 2015~ Jun. 24, 2015	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 degree	N/A	Jun. 19, 2015~ Jun. 24, 2015	N/A	Radiation (03CH07-HY)
Preamplifier	MITEQ	JS44-1800400 0-33-8P	1840917	18GHz ~ 40GHz	Jun. 02, 2015	Jun. 19, 2015~ Jun. 24, 2015	Jun. 01, 2016	Radiation (03CH07-HY)
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100356	9kHz – 2.75GHz	Dec. 01, 2014	Jun. 20, 2015	Nov. 30, 2015	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2014	Jun. 20, 2015	Dec. 01, 2015	Conduction (CO05-HY)
LISN (for auxiliary equipment)	Rohde & Schwarz	ENV216	100081	9kHz ~ 30MHz	Dec. 08, 2014	Jun. 20, 2015	Dec. 07, 2015	Conduction (CO05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 20, 2015	N/A	Conduction (CO05-HY)



5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.26
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.50
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Appendix A. Conducted Test Results

Test Engineer:	osolemio Chang	Temperature:	23.8	°C
Test Date:	2015/6/10~2015/6/30	Relative Humidity:	53	%

TEST RESULTS DATA
26dB and 99% OBW

Band I													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	5180	17.05	19.95	21.20	35.80	-	-	22.32	-	
11a	6Mbps	2	44	5220	16.95	22.05	21.40	37.25	-	-	22.29	-	
11a	6Mbps	2	48	5240	16.95	17.65	21.25	33.95	-	-	22.29	-	
HT20	MCS8	2	36	5180	17.95	17.95	22.00	21.75	-	-	22.54	-	
HT20	MCS8	2	44	5220	17.90	17.95	22.15	21.90	-	-	22.53	-	
HT20	MCS8	2	48	5240	17.90	18.00	22.25	21.90	-	-	22.53	-	
HT40	MCS8	2	38	5190	36.10	36.10	41.58	41.31	-	-	23.01	-	
HT40	MCS8	2	46	5230	36.10	36.20	41.49	42.03	-	-	23.01	-	
VHT20	MCS0	2	36	5180	17.90	18.05	21.85	22.25	-	-	22.53	-	
VHT20	MCS0	2	44	5220	17.85	18.00	22.10	22.25	-	-	22.52	-	
VHT20	MCS0	2	48	5240	17.85	18.00	22.00	22.05	-	-	22.52	-	
VHT40	MCS0	2	38	5190	36.10	36.10	41.67	41.22	-	-	23.01	-	
VHT40	MCS0	2	46	5230	36.10	36.20	41.85	42.39	-	-	23.01	-	
VHT80	MCS6	2	42	5210	74.88	74.76	80.64	80.80	-	-	23.01	-	

TEST RESULTS DATA
Average Power Table

FCC Band I															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	36	5180	0.21	0.20	12.90	13.55	16.25	24.00		0.48			Pass
11a	6Mbps	2	44	5220	0.21	0.20	12.85	13.55	16.22	24.00		0.48			Pass
11a	6Mbps	2	48	5240	0.21	0.20	12.75	13.55	16.18	24.00		0.48			Pass
HT20	MCS8	2	36	5180	0.42	0.42	12.66	13.87	16.32	24.00		0.48			Pass
HT20	MCS8	2	44	5220	0.42	0.42	12.57	13.99	16.35	24.00		0.48			Pass
HT20	MCS8	2	48	5240	0.42	0.42	12.48	14.01	16.32	24.00		0.48			Pass
HT40	MCS8	2	38	5190	0.81	0.77	11.85	12.88	15.40	24.00		0.48			Pass
HT40	MCS8	2	46	5230	0.81	0.77	12.31	13.60	16.01	24.00		0.48			Pass
VHT20	MCS0	2	36	5180	0.22	0.22	12.56	13.82	16.24	24.00		0.48			Pass
VHT20	MCS0	2	44	5220	0.22	0.22	12.46	13.97	16.29	24.00		0.48			Pass
VHT20	MCS0	2	48	5240	0.22	0.22	12.31	13.89	16.18	24.00		0.48			Pass
VHT40	MCS0	2	38	5190	0.43	0.39	10.70	11.70	14.24	24.00		0.48			Pass
VHT40	MCS0	2	46	5230	0.43	0.39	12.17	13.56	15.93	24.00		0.48			Pass
VHT80	MCS6	2	42	5210	0.81	0.81	9.04	10.19	12.66	24.00		0.48			Pass

IC Band I																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			IC Conducted Power Limit (dBm)		DG (dBi)		IC EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	5180	0.21	0.20	12.90	13.55	16.25	21.84		0.48		22.32		Pass
11a	6Mbps	2	44	5220	0.21	0.20	12.85	13.55	16.22	21.81		0.48		22.29		Pass
11a	6Mbps	2	48	5240	0.21	0.20	12.75	13.55	16.18	21.81		0.48		22.29		Pass
HT20	MCS8	2	36	5180	0.42	0.42	12.66	13.87	16.32	22.06		0.48		22.54		Pass
HT20	MCS8	2	44	5220	0.42	0.42	12.57	13.99	16.35	22.05		0.48		22.53		Pass
HT20	MCS8	2	48	5240	0.42	0.42	12.48	14.01	16.32	22.05		0.48		22.53		Pass
HT40	MCS8	2	38	5190	0.81	0.77	11.85	12.88	15.40	22.53		0.48		23.01		Pass
HT40	MCS8	2	46	5230	0.81	0.77	12.31	13.60	16.01	22.53		0.48		23.01		Pass
VHT20	MCS0	2	36	5180	0.22	0.22	12.56	13.82	16.24	22.05		0.48		22.53		Pass
VHT20	MCS0	2	44	5220	0.22	0.22	12.46	13.97	16.29	22.04		0.48		22.52		Pass
VHT20	MCS0	2	48	5240	0.22	0.22	12.31	13.89	16.18	22.04		0.48		22.52		Pass
VHT40	MCS0	2	38	5190	0.43	0.39	10.70	11.70	14.24	22.53		0.48		23.01		Pass
VHT40	MCS0	2	46	5230	0.43	0.39	12.17	13.56	15.93	22.53		0.48		23.01		Pass
VHT80	MCS6	2	42	5210	0.81	0.81	9.04	10.19	12.66	22.53		0.48		23.01		Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	5180	0.21	0.20			6.52	11.00	0.48			Pass
11a	6Mbps	2	44	5220	0.21	0.20			6.81	11.00	0.48			Pass
11a	6Mbps	2	48	5240	0.21	0.20			6.55	11.00	0.48			Pass
HT20	MCS8	2	36	5180	0.42	0.42			4.15	11.00	0.48			Pass
HT20	MCS8	2	44	5220	0.42	0.42			4.18	11.00	0.48			Pass
HT20	MCS8	2	48	5240	0.42	0.42			4.00	11.00	0.48			Pass
HT40	MCS8	2	38	5190	0.81	0.77			0.84	11.00	0.48			Pass
HT40	MCS8	2	46	5230	0.81	0.77			0.19	11.00	0.48			Pass
VHT20	MCS0	2	36	5180	0.22	0.22			4.26	11.00	0.48			Pass
VHT20	MCS0	2	44	5220	0.22	0.22			4.22	11.00	0.48			Pass
VHT20	MCS0	2	48	5240	0.22	0.22			4.01	11.00	0.48			Pass
VHT40	MCS0	2	38	5190	0.43	0.39			0.03	11.00	0.48			Pass
VHT40	MCS0	2	46	5230	0.43	0.39			0.53	11.00	0.48			Pass
VHT80	MCS6	2	42	5210	0.81	0.81			-5.06	11.00	0.48			Pass

IC Band I																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		IC EIRP PSD Limit (dBm/MHz)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	5180	0.21	0.20			6.52	9.52	0.48	10	10	10	10	Pass
11a	6Mbps	2	44	5220	0.21	0.20			6.81	9.52	0.48	10	10	10	10	Pass
11a	6Mbps	2	48	5240	0.21	0.20			6.55	9.52	0.48	10	10	10	10	Pass
HT20	MCS8	2	36	5180	0.42	0.42			4.15	9.52	0.48	10	10	10	10	Pass
HT20	MCS8	2	44	5220	0.42	0.42			4.18	9.52	0.48	10	10	10	10	Pass
HT20	MCS8	2	48	5240	0.42	0.42			4.00	9.52	0.48	10	10	10	10	Pass
HT40	MCS8	2	38	5190	0.81	0.77			0.84	9.52	0.48	10	10	10	10	Pass
HT40	MCS8	2	46	5230	0.81	0.77			0.19	9.52	0.48	10	10	10	10	Pass
VHT20	MCS0	2	36	5180	0.22	0.22			4.26	9.52	0.48	10	10	10	10	Pass
VHT20	MCS0	2	44	5220	0.22	0.22			4.22	9.52	0.48	10	10	10	10	Pass
VHT20	MCS0	2	48	5240	0.22	0.22			4.01	9.52	0.48	10	10	10	10	Pass
VHT40	MCS0	2	38	5190	0.43	0.39			0.03	9.52	0.48	10	10	10	10	Pass
VHT40	MCS0	2	46	5230	0.43	0.39			0.53	9.52	0.48	10	10	10	10	Pass
VHT80	MCS6	2	42	5210	0.81	0.81			-5.06	9.52	0.48	10	10	10	10	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260	16.95	18.45	21.20	34.60	23.29		29.29		23.98		
11a	6Mbps	2	60	5300	17.00	20.70	22.25	37.00	23.30		29.30		23.98		
11a	6Mbps	2	64	5320	17.00	18.75	21.80	34.90	23.30		29.30		23.98		
HT20	MCS8	2	52	5260	17.95	18.05	21.90	22.00	23.54		29.54		23.98		
HT20	MCS8	2	60	5300	17.90	18.20	22.10	24.45	23.53		29.53		23.98		
HT20	MCS8	2	64	5320	17.95	18.05	22.25	22.05	23.54		29.54		23.98		
HT40	MCS8	2	54	5270	36.00	36.20	41.85	42.39	23.98		30.00		23.98		
HT40	MCS8	2	62	5310	36.10	36.30	41.40	42.30	23.98		30.00		23.98		
VHT20	MCS0	2	52	5260	17.90	18.05	22.05	22.35	23.53		29.53		23.98		
VHT20	MCS0	2	60	5300	17.90	18.50	22.10	25.50	23.53		29.53		23.98		
VHT20	MCS0	2	64	5320	17.85	18.10	22.00	23.75	23.52		29.52		23.98		
VHT40	MCS0	2	54	5270	36.20	36.20	41.76	42.93	23.98		30.00		23.98		
VHT40	MCS0	2	62	5310	36.20	36.10	41.58	41.85	23.98		30.00		23.98		
VHT80	MCS6	2	58	5290	74.76	74.88	81.12	81.12	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	0.21	0.20	12.71	13.52	16.14	23.98		0.50			Pass
11a	6Mbps	2	60	5300	0.21	0.20	13.45	13.81	16.64	23.98		0.50			Pass
11a	6Mbps	2	64	5320	0.21	0.20	13.43	13.72	16.59	23.98		0.50			Pass
HT20	MCS8	2	52	5260	0.42	0.42	12.60	14.06	16.40	23.98		0.50			Pass
HT20	MCS8	2	60	5300	0.42	0.42	12.94	14.29	16.68	23.98		0.50			Pass
HT20	MCS8	2	64	5320	0.42	0.42	12.93	14.23	16.64	23.98		0.50			Pass
HT40	MCS8	2	54	5270	0.81	0.77	12.32	13.52	15.97	23.98		0.50			Pass
HT40	MCS8	2	62	5310	0.81	0.77	12.35	13.51	15.98	23.98		0.50			Pass
VHT20	MCS0	2	52	5260	0.22	0.22	12.50	13.99	16.32	23.98		0.50			Pass
VHT20	MCS0	2	60	5300	0.22	0.22	12.89	14.23	16.62	23.98		0.50			Pass
VHT20	MCS0	2	64	5320	0.22	0.22	12.85	14.22	16.60	23.98		0.50			Pass
VHT40	MCS0	2	54	5270	0.43	0.39	12.23	13.60	15.98	23.98		0.50			Pass
VHT40	MCS0	2	62	5310	0.43	0.39	12.06	12.94	15.53	23.98		0.50			Pass
VHT80	MCS6	2	58	5290	0.81	0.81	10.95	12.54	14.83	23.98		0.50			Pass

IC Band II																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			IC Conducted Power Limit (dBm)		DG (dBi)		IC EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260	0.21	0.20	12.71	13.52	16.14	23.29		0.50		29.29		Pass
11a	6Mbps	2	60	5300	0.21	0.20	13.45	13.81	16.64	23.30		0.50		29.30		Pass
11a	6Mbps	2	64	5320	0.21	0.20	13.43	13.72	16.59	23.30		0.50		29.30		Pass
HT20	MCS8	2	52	5260	0.42	0.42	12.60	14.06	16.40	23.54		0.50		29.54		Pass
HT20	MCS8	2	60	5300	0.42	0.42	12.94	14.29	16.68	23.53		0.50		29.53		Pass
HT20	MCS8	2	64	5320	0.42	0.42	12.93	14.23	16.64	23.54		0.50		29.54		Pass
HT40	MCS8	2	54	5270	0.81	0.77	12.32	13.52	15.97	23.98		0.50		30.00		Pass
HT40	MCS8	2	62	5310	0.81	0.77	12.35	13.51	15.98	23.98		0.50		30.00		Pass
VHT20	MCS0	2	52	5260	0.22	0.22	12.50	13.99	16.32	23.53		0.50		29.53		Pass
VHT20	MCS0	2	60	5300	0.22	0.22	12.89	14.23	16.62	23.53		0.50		29.53		Pass
VHT20	MCS0	2	64	5320	0.22	0.22	12.85	14.22	16.60	23.52		0.50		29.52		Pass
VHT40	MCS0	2	54	5270	0.43	0.39	12.23	13.60	15.98	23.98		0.50		30.00		Pass
VHT40	#####	2	62	5310	0.43	0.39	12.06	12.94	15.53	23.98		0.50		30.00		Pass
VHT80	MCS6	2	58	5290	0.81	0.81	10.95	12.54	14.83	23.98		0.50		30.00		Pass

TEST RESULTS DATA
Power Spectral Density

Band II														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260	0.21	0.20			6.53	11.00	0.50			Pass
11a	6Mbps	2	60	5300	0.21	0.20			6.50	11.00	0.50			Pass
11a	6Mbps	2	64	5320	0.21	0.20			6.60	11.00	0.50			Pass
HT20	MCS8	2	52	5260	0.42	0.42			4.03	11.00	0.50			Pass
HT20	MCS8	2	60	5300	0.42	0.42			4.35	11.00	0.50			Pass
HT20	MCS8	2	64	5320	0.42	0.42			4.50	11.00	0.50			Pass
HT40	MCS8	2	54	5270	0.81	0.77			0.36	11.00	0.50			Pass
HT40	MCS8	2	62	5310	0.81	0.77			0.56	11.00	0.50			Pass
VHT20	MCS0	2	52	5260	0.22	0.22			4.12	11.00	0.50			Pass
VHT20	MCS0	2	60	5300	0.22	0.22			4.43	11.00	0.50			Pass
VHT20	MCS0	2	64	5320	0.22	0.22			4.44	11.00	0.50			Pass
VHT40	MCS0	2	54	5270	0.43	0.39			0.59	11.00	0.50			Pass
VHT40	MCS0	2	62	5310	0.43	0.39			1.05	11.00	0.50			Pass
VHT80	MCS6	2	58	5290	0.81	0.81			-3.82	11.00	0.50			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III															
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	100	5500	17.00	17.65	21.10	29.40	23.30		29.30		23.98		
11a	6Mbps	2	116	5580	16.90	18.60	21.35	35.35	23.28		29.28		23.98		
11a	6Mbps	2	140	5700	16.80	17.15	20.90	23.65	23.25		29.25		23.98		
HT20	MCS8	2	100	5500	17.90	18.00	21.95	21.75	23.53		29.53		23.98		
HT20	MCS8	2	116	5580	17.90	17.95	22.10	21.75	23.53		29.53		23.98		
HT20	MCS8	2	140	5700	17.90	18.00	21.85	22.10	23.53		29.53		23.98		
HT40	MCS8	2	102	5510	36.10	36.20	42.03	41.58	23.98		30.00		23.98		
HT40	MCS8	2	110	5550	36.10	36.20	41.76	41.76	23.98		30.00		23.98		
HT40	MCS8	2	134	5670	36.10	36.20	41.40	42.21	23.98		30.00		23.98		
VHT20	MCS0	2	100	5500	17.85	17.95	21.80	22.10	23.52		29.52		23.98		
VHT20	MCS0	2	116	5580	17.85	17.90	21.90	21.95	23.52		29.52		23.98		
VHT20	MCS0	2	140	5700	17.90	18.10	21.65	22.20	23.53		29.53		23.98		
VHT40	MCS0	2	102	5510	36.10	36.10	41.85	42.12	23.98		30.00		23.98		
VHT40	MCS0	2	110	5550	36.10	36.20	41.94	42.12	23.98		30.00		23.98		
VHT40	MCS0	2	134	5670	36.10	36.30	41.67	42.03	23.98		30.00		23.98		
VHT80	MCS6	2	106	5530	74.52	74.52	81.60	80.80	23.98		30.00		23.98		
VHT80	MCS6	2	122	5610	75.12	74.88	81.44	81.60	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band III															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500	0.21	0.20	13.53	13.80	16.68	23.98		0.82			Pass
11a	6Mbps	2	116	5580	0.21	0.20	13.05	13.45	16.27	23.98		0.82			Pass
11a	6Mbps	2	140	5700	0.21	0.20	12.58	14.37	16.58	23.98		0.82			Pass
HT20	MCS8	2	100	5500	0.42	0.42	12.63	14.17	16.48	23.98		0.82			Pass
HT20	MCS8	2	116	5580	0.42	0.42	12.32	14.07	16.29	23.98		0.82			Pass
HT20	MCS8	2	140	5700	0.42	0.42	12.14	14.25	16.33	23.98		0.82			Pass
HT40	MCS8	2	102	5510	0.81	0.77	9.78	11.08	13.49	23.98		0.82			Pass
HT40	MCS8	2	110	5550	0.81	0.77	12.23	13.70	16.03	23.98		0.82			Pass
HT40	MCS8	2	134	5670	0.81	0.77	11.74	13.76	15.87	23.98		0.82			Pass
VHT20	MCS0	2	100	5500	0.22	0.22	12.59	14.13	16.44	23.98		0.82			Pass
VHT20	MCS0	2	116	5580	0.22	0.22	12.20	14.10	16.26	23.98		0.82			Pass
VHT20	MCS0	2	140	5700	0.22	0.22	11.92	14.19	16.21	23.98		0.82			Pass
VHT40	MCS0	2	102	5510	0.43	0.39	9.66	10.96	13.37	23.98		0.82			Pass
VHT40	MCS0	2	110	5550	0.43	0.39	12.10	13.70	15.98	23.98		0.82			Pass
VHT40	MCS0	2	134	5670	0.43	0.39	11.75	14.27	16.20	23.98		0.82			Pass
VHT80	MCS6	2	106	5530	3.15	3.15	8.83	10.80	12.94	23.98		0.82			Pass
VHT80	MCS6	2	122	5610	3.15	3.15	10.82	12.89	14.99	23.98		0.82			Pass

IC Band III																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			IC Conducted Power Limit (dBm)		DG (dBi)		IC EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	MCS0	2	100	5500	0.21	0.20	13.53	13.80	16.68	23.30		0.82		29.30		Pass
11a	6Mbps	2	116	5580	0.21	0.20	13.05	13.45	16.27	23.28		0.82		29.28		Pass
11a	6Mbps	2	140	5700	0.21	0.20	12.58	14.37	16.58	23.25		0.82		29.25		Pass
HT20	MCS8	2	100	5500	0.42	0.42	12.63	14.17	16.48	23.53		0.82		29.53		Pass
HT20	MCS8	2	116	5580	0.42	0.42	12.32	14.07	16.29	23.53		0.82		29.53		Pass
HT20	MCS8	2	140	5700	0.42	0.42	12.14	14.25	16.33	23.53		0.82		29.53		Pass
HT40	MCS8	2	102	5510	0.81	0.77	9.78	11.08	13.49	23.98		0.82		30.00		Pass
HT40	MCS8	2	110	5550	0.81	0.77	12.23	13.70	16.03	23.98		0.82		30.00		Pass
HT40	MCS8	2	134	5670	0.81	0.77	11.74	13.76	15.87	23.98		0.82		30.00		Pass
VHT20	MCS0	2	100	5500	0.22	0.22	12.59	14.13	16.44	23.52		0.82		29.52		Pass
VHT20	MCS0	2	116	5580	0.22	0.22	12.20	14.10	16.26	23.52		0.82		29.52		Pass
VHT20	MCS0	2	140	5700	0.22	0.22	11.92	14.19	16.21	23.53		0.82		29.53		Pass
VHT40	MCS0	2	102	5510	0.43	0.39	9.66	10.96	13.37	23.98		0.82		30.00		Pass
VHT40	MCS0	2	110	5550	0.43	0.39	12.10	13.70	15.98	23.98		0.82		30.00		Pass
VHT40	MCS0	2	134	5670	0.43	0.39	11.75	14.27	16.20	23.98		0.82		30.00		Pass
VHT80	MCS6	2	106	5530	3.15	3.15	10.82	12.89	14.99	23.98		0.82		30.00		Pass

TEST RESULTS DATA
Power Spectral Density

Band III														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	100	5500	0.21	0.20			6.44	11.00		0.82		Pass
11a	6Mbps	2	116	5580	0.21	0.20			6.63	11.00		0.82		Pass
11a	6Mbps	2	140	5700	0.21	0.20			7.20	11.00		0.82		Pass
HT20	MCS8	2	100	5500	0.42	0.42			4.17	11.00		0.82		Pass
HT20	MCS8	2	116	5580	0.42	0.42			3.71	11.00		0.82		Pass
HT20	MCS8	2	140	5700	0.42	0.42			3.82	11.00		0.82		Pass
HT40	MCS8	2	102	5510	0.81	0.77			-0.93	11.00		0.82		Pass
HT40	MCS8	2	110	5550	0.81	0.77			0.24	11.00		0.82		Pass
HT40	MCS8	2	134	5670	0.81	0.77			-0.41	11.00		0.82		Pass
VHT20	MCS0	2	100	5500	0.22	0.22			4.14	11.00		0.82		Pass
VHT20	MCS0	2	116	5580	0.22	0.22			3.87	11.00		0.82		Pass
VHT20	MCS0	2	140	5700	0.22	0.22			4.07	11.00		0.82		Pass
VHT40	MCS0	2	102	5510	0.43	0.39			-1.46	11.00		0.82		Pass
VHT40	MCS0	2	110	5550	0.43	0.39			0.36	11.00		0.82		Pass
VHT40	MCS0	2	134	5670	0.43	0.39			-0.09	11.00		0.82		Pass
VHT80	MCS6	2	106	5530	0.81	0.81			-5.16	11.00		0.82		Pass
VHT80	MCS6	2	122	5610	0.81	0.81			-4.05	11.00		0.82		Pass

TEST RESULTS DATA
26dB and 99% OBW

Straddle Channel															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		Emission Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	144	5720	16.95	18.65	21.15	32.45	-		-		-		
				NII-2C	13.55	13.85	15.7	19.4	22.32		28.32		22.96		
				NII-3	3.4	4.8	5.45	13.05	22.31		28.31		18.36		
HT20	MCS0	2	144	5720	17.90	17.90	21.80	22.10	-		-		-		
				NII-2C	14.05	14.05	15.95	16.05	22.48		28.48		23.03		
				NII-3	3.85	3.85	5.85	6.05	22.85		28.85		18.67		
HT40	MCS0	2	142	5710	36.10	36.10	41.22	41.94	-		-		-		
				NII-2C	33.1	33.2	35.52	36.24	23.98		30.00		23.98		
				NII-3	3	2.9	5.7	5.7	21.62		27.62		18.56		
VHT20	MCS0	2	144	5720	17.90	17.90	21.85	21.95	-		-		-		
				NII-2C	14.05	14.05	16	16.05	22.48		28.48		23.04		
				NII-3	3.85	3.85	5.85	5.9	22.85		28.85		18.67		
VHT40	MCS0	2	142	5710	36.10	36.10	41.31	42.39	-		-		-		
				NII-2C	33.1	33.2	35.52	36.42	23.98		30.00		23.98		
				NII-3	3	2.9	5.79	5.97	21.62		27.62		18.63		
VHT80	MCS0	2	138	5690	74.88	74.88	81.44	81.12	-		-		-		
				NII-2C	72.56	72.56	75.64	75.48	23.98		30.00		23.98		
				NII-3	2.32	2.32	5.8	5.64	20.65		26.65		18.51		

TEST RESULTS DATA
Average Power Table

FCC Straddle Channel															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	144	5720	0.21	0.20	13.64	15.90	17.93	-		0.82			-
				NII-2C	0.21	0.20	12.96	15.17	17.21	22.96		0.82			Pass
				NII-3	0.21	0.20	5.27	7.82	9.74	18.36		0.82			Pass
HT20	MCS0	2	144	5720	0.42	0.42	13.36	15.80	17.76	-		0.82			-
				NII-2C	0.42	0.42	12.65	15.05	17.02	23.03		0.82			Pass
				NII-3	0.42	0.42	5.14	7.79	9.67	18.67		0.82			Pass
HT40	MCS0	2	142	5710	0.81	0.77	12.62	15.35	17.21	-		0.82			-
				NII-2C	0.81	0.77	12.41	15.13	16.99	23.98		0.82			Pass
				NII-3	0.81	0.77	-0.58	2.25	4.07	18.56		0.82			Pass
VHT20	MCS0	2	144	5720	0.22	0.22	13.26	15.63	17.61	-		0.82			-
				NII-2C	0.22	0.22	12.55	14.90	16.89	23.04		0.82			Pass
				NII-3	0.22	0.22	5.03	7.51	9.45	18.67		0.82			Pass
VHT40	MCS0	2	142	5710	0.43	0.39	12.55	15.05	16.99	-		0.82			-
				NII-2C	0.43	0.39	12.34	14.84	16.78	23.98		0.82			Pass
				NII-3	0.43	0.39	-0.61	1.86	3.81	18.63		0.82			Pass
VHT80	MCS0	2	138	5690	0.81	0.81	11.56	13.79	15.82	-		0.82			-
				NII-2C	0.81	0.81	11.50	13.72	15.76	23.98		0.82			Pass
				NII-3	0.81	0.81	-7.17	-4.47	-2.60	18.51		0.82			Pass

IC Straddle Channel																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			IC Conducted Power Limit (dBm)		DG (dBi)		IC EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	144	5720	0.21	0.20	13.64	15.90	17.93	-		0.82		-		-
				NII-2C	0.21	0.20	12.96	15.17	17.21	22.32		0.82		28.32		Pass
				NII-3	0.21	0.20	5.27	7.82	9.74	22.31		0.82		28.31		Pass
HT20	MCS0	2	144	5720	0.42	0.42	13.36	15.80	17.76	-		0.82		-		-
				NII-2C	0.42	0.42	12.65	15.05	17.02	22.48		0.82		28.48		Pass
				NII-3	0.42	0.42	5.14	7.79	9.67	22.85		0.82		28.85		Pass
HT40	MCS0	2	142	5710	0.81	0.77	12.62	15.35	17.21	-		0.82		-		-
				NII-2C	0.81	0.77	12.41	15.13	16.99	23.98		0.82		30.00		Pass
				NII-3	0.81	0.77	-0.58	2.25	4.07	21.62		0.82		27.62		Pass
VHT20	MCS0	2	144	5720	0.22	0.22	13.26	15.63	17.61	-		0.82		-		-
				NII-2C	0.22	0.22	12.55	14.90	16.89	22.48		0.82		28.48		Pass
				NII-3	0.22	0.22	5.03	7.51	9.45	22.85		0.82		28.85		Pass
VHT40	MCS0	2	142	5710	0.43	0.39	12.55	15.05	16.99	-		0.82		-		-
				NII-2C	0.43	0.39	12.34	14.84	16.78	23.98		0.82		30.00		Pass
				NII-3	0.43	0.39	-0.61	1.86	3.81	21.62		0.82		27.62		Pass
VHT80	MCS0	2	138	5690	0.81	0.81	11.56	13.79	15.82	-		0.82		-		-
				NII-2C	0.81	0.81	11.50	13.72	15.76	23.98		0.82		30.00		Pass
				NII-3	0.81	0.81	-7.17	-4.47	-2.60	20.65		0.82		26.65		Pass

TEST RESULTS DATA
Power Spectral Density

Straddle Channel															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	144	NII-2C	0.21	0.20			6.82	11.00	0.82			Pass	
				NII-3	0.21	0.20			6.82	30.00	0.82		Pass		
HT20	MCS0	2	144	NII-2C	0.42	0.42			4.23	11.00	0.82		Pass		
				NII-3	0.42	0.42			4.23	30.00	0.82		Pass		
HT40	MCS0	2	142	NII-2C	0.81	0.77			0.38	11.00	0.82		Pass		
				NII-3	0.81	0.77			0.38	30.00	0.82		Pass		
VHT20	MCS0	2	144	NII-2C	0.22	0.22			4.36	11.00	0.82		Pass		
				NII-3	0.22	0.22			4.36	30.00	0.82		Pass		
VHT40	MCS0	2	142	NII-2C	0.43	0.39			0.56	11.00	0.82		Pass		
				NII-3	0.43	0.39			0.56	30.00	0.82		Pass		
VHT80	MCS0	2	138	NII-2C	0.81	0.81			-4.27	11.00	0.82		Pass		
				NII-3	0.81	0.81			-4.27	30.00	0.82		Pass		

TEST RESULTS DATA
Frequency Stability

Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	3.4	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	4.35	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	20	3.9	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	-30	3.9	
11a	6Mbps	1	36	5180	5180.000	0.000	0.00	55	3.9	

Band II										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	64	5320	5319.950	-0.050	-9.40	20	3.4	
11a	6Mbps	1	64	5320	5319.950	-0.050	-9.40	20	4.35	
11a	6Mbps	1	64	5320	5319.950	-0.050	-9.40	20	3.9	
11a	6Mbps	1	64	5320	5319.950	-0.050	-9.40	-30	3.9	
11a	6Mbps	1	64	5320	5319.950	-0.050	-9.40	55	3.9	

Band III										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	3.4	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	20	4.35	
11a	6Mbps	1	100	5500	5499.950	-0.050	-9.09	20	3.9	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	-30	3.9	
11a	6Mbps	1	100	5500	5500.000	0.000	0.00	55	3.9	



Appendix B. Radiated Spurious Emission

Test Engineer :	Nick Yu, Ken Wu and James Chiu	Temperature :	21~23°C
		Relative Humidity :	60~63%

15E Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5146.55	67.54	-6.46	74	53.87	34.61	11.55	32.49	100	64	P	H
		5150	47.34	-6.66	54	33.67	34.61	11.55	32.49	100	64	A	H
	*	5180	105.8	-	-	92.11	34.66	11.55	32.52	100	64	P	H
	*	5180	96.65	-	-	82.96	34.66	11.55	32.52	100	64	A	H
													H
													H
		5148.35	72.46	-1.54	74	58.79	34.61	11.55	32.49	271	92	P	V
		5149.85	51.17	-2.83	54	37.5	34.61	11.55	32.49	271	92	A	V
	*	5178	111.27	-	-	97.58	34.66	11.55	32.52	271	92	P	V
	*	5178	101.99	-	-	88.3	34.66	11.55	32.52	271	92	A	V
													V
													V
802.11a CH 44 5220MHz		5075.3	56.76	-17.24	74	43.17	34.52	11.46	32.39	100	64	P	H
		5140.4	43.55	-10.45	54	29.84	34.61	11.55	32.45	100	64	A	H
	*	5220	105.34	-	-	91.6	34.7	11.59	32.55	100	64	P	H
	*	5220	95.79	-	-	82.05	34.7	11.59	32.55	100	64	A	H
		5394.66	57.38	-16.62	74	43.96	34.96	11.74	33.28	100	64	P	H
		5382.89	43.91	-10.09	54	30.51	34.94	11.74	33.28	100	64	A	H
		5119.1	57.97	-16.03	74	44.36	34.56	11.5	32.45	295	96	P	V
		5145.65	43.78	-10.22	54	30.11	34.61	11.55	32.49	295	96	A	V
	*	5222	111.25	-	-	97.58	34.7	11.62	32.65	295	96	P	V
	*	5222	101.47	-	-	87.8	34.7	11.62	32.65	295	96	A	V
		5415.89	57.29	-16.71	74	43.96	34.98	11.74	33.39	295	96	P	V
		5395.43	43.88	-10.12	54	30.46	34.96	11.74	33.28	295	96	A	V



802.11a CH 48 5240MHz		5099.15	57.17	-16.83	74	43.59	34.54	11.46	32.42	100	65	P	H
		5142.35	43.64	-10.36	54	29.93	34.61	11.55	32.45	100	65	A	H
	*	5240	105.21	-	-	91.51	34.73	11.62	32.65	100	65	P	H
	*	5240	95.59	-	-	81.89	34.73	11.62	32.65	100	65	A	H
		5400.38	57.25	-16.75	74	43.94	34.96	11.74	33.39	100	65	P	H
		5386.19	43.99	-10.01	54	30.59	34.94	11.74	33.28	100	65	A	H
		5061.95	57.62	-16.38	74	44.02	34.49	11.46	32.35	295	96	P	V
		5144.45	43.62	-10.38	54	29.95	34.61	11.55	32.49	295	96	A	V
	*	5240	111.54	-	-	97.84	34.73	11.62	32.65	295	96	P	V
	*	5240	101.93	-	-	88.23	34.73	11.62	32.65	295	96	A	V
		5419.96	57.19	-16.81	74	43.86	34.98	11.74	33.39	295	96	P	V
		5379.81	43.87	-10.13	54	30.5	34.94	11.71	33.28	295	96	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		10360	43.43	-30.57	74	49.78	37.22	16.34	59.91	100	0	P	H
		15540	47.15	-26.85	74	44.33	40.34	20.36	57.88	100	0	P	H
													H
													H
		10360	42.85	-31.15	74	49.2	37.22	16.34	59.91	100	0	P	V
		15540	47.76	-26.24	74	44.94	40.34	20.36	57.88	100	0	P	V
													V
													V
802.11a CH 44 5220MHz		10440	41.58	-32.42	74	47.76	37.26	16.41	59.85	100	0	P	H
		15660	46.43	-27.57	74	43.34	40.49	20.41	57.81	100	0	P	H
													H
													H
		10440	41.33	-32.67	74	47.51	37.26	16.41	59.85	100	0	P	V
		15660	48.19	-25.81	74	45.1	40.49	20.41	57.81	100	0	P	V
													V
													V
802.11a CH 48 5240MHz		10480	42.41	-31.59	74	48.48	37.29	16.45	59.81	100	0	P	H
		15720	48.08	-25.92	74	44.83	40.57	20.45	57.77	100	0	P	H
													H
													H
		10480	41.57	-32.43	74	47.64	37.29	16.45	59.81	100	0	P	V
		15720	48.43	-25.57	74	45.18	40.57	20.45	57.77	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 36 5180MHz		5148.95	67.44	-6.56	74	53.77	34.61	11.55	32.49	105	68	P	H
		5149.85	45.58	-8.42	54	31.91	34.61	11.55	32.49	105	68	A	H
	*	5180	105.09	-	-	91.4	34.66	11.55	32.52	105	68	P	H
	*	5180	94.97	-	-	81.28	34.66	11.55	32.52	105	68	A	H
													H
													H
		5149.1	71.15	-2.85	74	57.48	34.61	11.55	32.49	296	79	P	V
		5150	47.71	-6.29	54	34.04	34.61	11.55	32.49	296	79	A	V
	*	5180	110.44	-	-	96.75	34.66	11.55	32.52	296	79	P	V
	*	5180	100.17	-	-	86.48	34.66	11.55	32.52	296	79	A	V
													V
													V
802.11n HT20 CH 44 5220MHz		5140.4	57.1	-16.9	74	43.39	34.61	11.55	32.45	101	112	P	H
		5142.2	44.01	-9.99	54	30.3	34.61	11.55	32.45	101	112	A	H
	*	5220	105.21	-	-	91.47	34.7	11.59	32.55	101	112	P	H
	*	5220	94.64	-	-	80.9	34.7	11.59	32.55	101	112	A	H
		5407.53	57.73	-16.27	74	44.42	34.96	11.74	33.39	101	112	P	H
		5402.8	44.35	-9.65	54	31.04	34.96	11.74	33.39	101	112	A	H
		5032.55	57.39	-16.61	74	43.85	34.45	11.41	32.32	294	85	P	V
		5149.85	44.22	-9.78	54	30.55	34.61	11.55	32.49	294	85	A	V
	*	5220	110.5	-	-	96.76	34.7	11.59	32.55	294	85	P	V
	*	5220	99.99	-	-	86.25	34.7	11.59	32.55	294	85	A	V
		5442.95	57	-17	74	43.67	35.01	11.8	33.48	294	85	P	V
		5385.09	44.34	-9.66	54	30.94	34.94	11.74	33.28	294	85	A	V



802.11n HT20 CH 48 5240MHz		5111	56.92	-17.08	74	43.28	34.56	11.5	32.42	101	67	P	H
		5145.05	43.92	-10.08	54	30.25	34.61	11.55	32.49	101	67	A	H
	*	5240	104.8	-	-	91.1	34.73	11.62	32.65	101	67	P	H
	*	5240	94.48	-	-	80.78	34.73	11.62	32.65	101	67	A	H
		5353.52	57.69	-16.31	74	44.27	34.89	11.71	33.18	101	67	P	H
		5380.69	44.45	-9.55	54	31.05	34.94	11.74	33.28	101	67	A	H
		5008.4	57.22	-16.78	74	43.72	34.42	11.37	32.29	303	80	P	V
		5144.15	44.06	-9.94	54	30.39	34.61	11.55	32.49	303	80	A	V
	*	5240	110.56	-	-	96.86	34.73	11.62	32.65	303	80	P	V
	*	5240	100.15	-	-	86.45	34.73	11.62	32.65	303	80	A	V
		5373.43	58.13	-15.87	74	44.79	34.91	11.71	33.28	303	80	P	V
		5383.77	44.37	-9.63	54	30.97	34.94	11.74	33.28	303	80	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 36 5180MHz		10360	43.2	-30.8	74	49.55	37.22	16.34	59.91	100	0	P	H
		15540	46.94	-27.06	74	44.12	40.34	20.36	57.88	100	0	P	H
													H
													H
		10360	44.14	-29.86	74	50.49	37.22	16.34	59.91	100	0	P	V
		15540	47.21	-26.79	74	44.39	40.34	20.36	57.88	100	0	P	V
													V
													V
802.11n HT20 CH 44 5220MHz		10440	42.63	-31.37	74	48.81	37.26	16.41	59.85	100	0	P	H
		15660	46.15	-27.85	74	43.06	40.49	20.41	57.81	100	0	P	H
													H
													H
		10440	42.3	-31.7	74	48.48	37.26	16.41	59.85	100	0	P	V
		15660	45.97	-28.03	74	42.88	40.49	20.41	57.81	100	0	P	V
													V
													V
802.11n HT20 CH 48 5240MHz		10480	40.95	-33.05	74	47.02	37.29	16.45	59.81	100	0	P	H
		15720	47.85	-26.15	74	44.6	40.57	20.45	57.77	100	0	P	H
													H
													H
		10480	41.84	-32.16	74	47.91	37.29	16.45	59.81	100	0	P	V
		15720	47.53	-26.47	74	44.28	40.57	20.45	57.77	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 38 5190MHz		5149.7	65.87	-8.13	74	52.2	34.61	11.55	32.49	297	194	P	H
		5149.85	49.12	-4.88	54	35.45	34.61	11.55	32.49	297	194	A	H
	*	5190	98.14	-	-	84.41	34.66	11.59	32.52	297	194	P	H
	*	5190	88.55	-	-	74.82	34.66	11.59	32.52	297	194	A	H
		5389.93	58.79	-15.21	74	45.39	34.94	11.74	33.28	297	194	P	H
		5377.39	45	-9	54	31.66	34.91	11.71	33.28	297	194	A	H
		5150	71.1	-2.9	74	57.43	34.61	11.55	32.49	266	284	P	V
		5149.85	53.4	-0.6	54	39.73	34.61	11.55	32.49	266	284	A	V
	*	5190	104.93	-	-	91.2	34.66	11.59	32.52	266	284	P	V
	*	5190	95.22	-	-	81.49	34.66	11.59	32.52	266	284	A	V
		5400.49	59.2	-14.8	74	45.89	34.96	11.74	33.39	266	284	P	V
		5400.27	45.1	-8.9	54	31.79	34.96	11.74	33.39	266	284	A	V
802.11n HT40 CH 46 5230MHz		5145.2	58.36	-15.64	74	44.69	34.61	11.55	32.49	241	85	P	H
		5143.55	44.35	-9.65	54	30.64	34.61	11.55	32.45	241	85	A	H
	*	5230	102.11	-	-	88.41	34.73	11.62	32.65	241	85	P	H
	*	5230	91.57	-	-	77.87	34.73	11.62	32.65	241	85	A	H
		5352.2	58.48	-15.52	74	45.06	34.89	11.71	33.18	241	85	P	H
		5384.32	44.92	-9.08	54	31.52	34.94	11.74	33.28	241	85	A	H
		5142.35	62.69	-11.31	74	48.98	34.61	11.55	32.45	290	88	P	V
		5140.25	44.66	-9.34	54	30.95	34.61	11.55	32.45	290	88	A	V
	*	5230	106.75	-	-	93.05	34.73	11.62	32.65	290	88	P	V
	*	5230	96.63	-	-	82.93	34.73	11.62	32.65	290	88	A	V
		5393.67	61.11	-12.89	74	47.71	34.94	11.74	33.28	290	88	P	V
		5394.11	44.7	-9.3	54	31.3	34.94	11.74	33.28	290	88	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 38 5190MHz		10380	41.76	-32.24	74	48.08	37.23	16.34	59.89	100	0	P	H
		15570	46.9	-27.1	74	44	40.38	20.38	57.86	100	0	P	H
													H
													H
		10380	42.19	-31.81	74	48.51	37.23	16.34	59.89	100	0	P	V
		15570	46.68	-27.32	74	43.78	40.38	20.38	57.86	100	0	P	V
													V
													V
802.11n HT40 CH 46 5230MHz		10460	41.77	-32.23	74	47.93	37.27	16.41	59.84	100	0	P	H
		15690	47.02	-26.98	74	43.85	40.53	20.43	57.79	100	0	P	H
													H
													H
		10460	41.07	-32.93	74	47.23	37.27	16.41	59.84	100	0	P	V
		15690	46.48	-27.52	74	43.31	40.53	20.43	57.79	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 36 5180MHz		5148.35	63.25	-10.75	74	49.58	34.61	11.55	32.49	300	196	P	H
		5149.85	44.97	-9.03	54	31.3	34.61	11.55	32.49	300	196	A	H
	*	5178	103.39	-	-	89.7	34.66	11.55	32.52	300	196	P	H
	*	5178	93.82	-	-	80.13	34.66	11.55	32.52	300	196	A	H
		5414.9	57.62	-16.38	74	44.29	34.98	11.74	33.39	300	196	P	H
		5417.87	44.17	-9.83	54	30.84	34.98	11.74	33.39	300	196	A	H
		5148.5	70.72	-3.28	74	57.05	34.61	11.55	32.49	264	282	P	V
		5149.85	47.44	-6.56	54	33.77	34.61	11.55	32.49	264	282	A	V
	*	5182	109.35	-	-	95.62	34.66	11.59	32.52	264	282	P	V
	*	5182	99.6	-	-	85.87	34.66	11.59	32.52	264	282	A	V
		5368.15	57.75	-16.25	74	44.31	34.91	11.71	33.18	264	282	P	V
802.11ac VHT20 CH 44 5220MHz		5106.05	57.46	-16.54	74	43.82	34.56	11.5	32.42	300	220	P	H
		5147.6	43.94	-10.06	54	30.27	34.61	11.55	32.49	300	220	A	H
	*	5222	104.14	-	-	90.47	34.7	11.62	32.65	300	220	P	H
	*	5222	93.88	-	-	80.21	34.7	11.62	32.65	300	220	A	H
		5410.39	57.84	-16.16	74	44.53	34.96	11.74	33.39	300	220	P	H
		5398.95	44.22	-9.78	54	30.91	34.96	11.74	33.39	300	220	A	H
		5069.75	57.38	-16.62	74	43.82	34.49	11.46	32.39	275	284	P	V
		5137.85	43.89	-10.11	54	30.25	34.59	11.5	32.45	275	284	A	V
	*	5222	109.16	-	-	95.49	34.7	11.62	32.65	275	284	P	V
	*	5222	98.96	-	-	85.29	34.7	11.62	32.65	275	284	A	V
		5404.78	58.14	-15.86	74	44.83	34.96	11.74	33.39	275	284	P	V
		5381.79	44.28	-9.72	54	30.88	34.94	11.74	33.28	275	284	A	V



802.11ac VHT20 CH 48 5240MHz		5079.65	57.14	-16.86	74	43.55	34.52	11.46	32.39	300	194	P	H
		5143.1	43.84	-10.16	54	30.13	34.61	11.55	32.45	300	194	A	H
	*	5239	104.34	-	-	90.64	34.73	11.62	32.65	300	194	P	H
	*	5239	94.47	-	-	80.77	34.73	11.62	32.65	300	194	A	H
		5376.84	57.69	-16.31	74	44.35	34.91	11.71	33.28	300	194	P	H
		5369.8	44.27	-9.73	54	30.83	34.91	11.71	33.18	300	194	A	H
		5133.5	57.64	-16.36	74	44	34.59	11.5	32.45	275	284	P	V
		5135	43.96	-10.04	54	30.32	34.59	11.5	32.45	275	284	A	V
	*	5240	109.07	-	-	95.37	34.73	11.62	32.65	275	284	P	V
	*	5240	99.23	-	-	85.53	34.73	11.62	32.65	275	284	A	V
		5378.93	57.13	-16.87	74	43.76	34.94	11.71	33.28	275	284	P	V
		5387.51	44.3	-9.7	54	30.9	34.94	11.74	33.28	275	284	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 36 5180MHz		10360	42.7	-31.3	74	49.05	37.22	16.34	59.91	100	0	P	H
		15540	45.94	-28.06	74	43.12	40.34	20.36	57.88	100	0	P	H
													H
													H
		10360	43.97	-30.03	74	50.32	37.22	16.34	59.91	100	0	P	V
		15540	46.81	-27.19	74	43.99	40.34	20.36	57.88	100	0	P	V
													V
													V
802.11ac VHT20 CH 44 5220MHz		10440	42.77	-31.23	74	48.95	37.26	16.41	59.85	100	0	P	H
		15660	47.31	-26.69	74	44.22	40.49	20.41	57.81	100	0	P	H
													H
													H
		10440	43.88	-30.12	74	50.06	37.26	16.41	59.85	100	0	P	V
		15660	46.32	-27.68	74	43.23	40.49	20.41	57.81	100	0	P	V
													V
													V
802.11ac VHT20 CH 48 5240MHz		10480	41.68	-32.32	74	47.75	37.29	16.45	59.81	100	0	P	H
		15720	47.6	-26.4	74	44.35	40.57	20.45	57.77	100	0	P	H
													H
													H
		10480	43.89	-30.11	74	49.96	37.29	16.45	59.81	100	0	P	V
		15720	47.31	-26.69	74	44.06	40.57	20.45	57.77	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 1 5150~5250MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT40 CH 38 5190MHz		5150	64.74	-9.26	74	51.07	34.61	11.55	32.49	218	84	P	H
		5149.7	49.22	-4.78	54	35.55	34.61	11.55	32.49	218	84	A	H
	*	5190	100.88	-	-	87.15	34.66	11.59	32.52	218	84	P	H
	*	5190	92.58	-	-	78.85	34.66	11.59	32.52	218	84	A	H
		5384.65	57.94	-16.06	74	44.54	34.94	11.74	33.28	218	84	P	H
		5365.84	44.64	-9.36	54	31.2	34.91	11.71	33.18	218	84	A	H
		5149.1	71.28	-2.72	74	57.61	34.61	11.55	32.49	279	77	P	V
		5150	53.29	-0.71	54	39.62	34.61	11.55	32.49	279	77	A	V
	*	5190	106.15	-	-	92.42	34.66	11.59	32.52	279	77	P	V
	*	5190	95.9	-	-	82.17	34.66	11.59	32.52	279	77	A	V
		5358.36	58.15	-15.85	74	44.73	34.89	11.71	33.18	279	77	P	V
802.11ac VHT40 CH 46 5230MHz		5392.79	44.7	-9.3	54	31.3	34.94	11.74	33.28	279	77	A	V
		5146.55	57.84	-16.16	74	44.17	34.61	11.55	32.49	242	83	P	H
		5149.1	44.36	-9.64	54	30.69	34.61	11.55	32.49	242	83	A	H
	*	5230	102.5	-	-	88.8	34.73	11.62	32.65	242	83	P	H
	*	5230	92.04	-	-	78.34	34.73	11.62	32.65	242	83	A	H
		5385.2	58.36	-15.64	74	44.96	34.94	11.74	33.28	242	83	P	H
		5379.48	44.72	-9.28	54	31.35	34.94	11.71	33.28	242	83	A	H
		5142.2	63.72	-10.28	74	50.01	34.61	11.55	32.45	275	90	P	V
		5148.5	44.77	-9.23	54	31.1	34.61	11.55	32.49	275	90	A	V
	*	5230	107.02	-	-	93.32	34.73	11.62	32.65	275	90	P	V
	*	5230	96.86	-	-	83.16	34.73	11.62	32.65	275	90	A	V
Remark		5379.7	62.34	-11.66	74	48.97	34.94	11.71	33.28	275	90	P	V
		5393.23	44.88	-9.12	54	31.48	34.94	11.74	33.28	275	90	A	V
1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



15E band 1 5150~5250MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT40 CH 38 5190MHz		10380	42.86	-31.14	74	49.18	37.23	16.34	59.89	100	0	P	H
		15570	46.41	-27.59	74	43.51	40.38	20.38	57.86	100	0	P	H
													H
													H
		10380	42.45	-31.55	74	48.77	37.23	16.34	59.89	100	0	P	V
		15570	47.52	-26.48	74	44.62	40.38	20.38	57.86	100	0	P	V
													V
													V
802.11ac VHT40 CH 46 5230MHz		10460	41.72	-32.28	74	47.88	37.27	16.41	59.84	100	0	P	H
		15690	46.79	-27.21	74	43.62	40.53	20.43	57.79	100	0	P	H
													H
													H
		10460	42.53	-31.47	74	48.69	37.27	16.41	59.84	100	0	P	V
		15690	46.45	-27.55	74	43.28	40.53	20.43	57.79	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 42 5210MHz		5143.55	60.87	-13.13	74	47.16	34.61	11.55	32.45	101	112	P	H
		5148.35	48.73	-5.27	54	35.06	34.61	11.55	32.49	101	112	A	H
	*	5209	95.22	-	-	81.48	34.7	11.59	32.55	101	112	P	H
	*	5209	85.75	-	-	72.01	34.7	11.59	32.55	101	112	A	H
		5358.58	58.61	-15.39	74	45.19	34.89	11.71	33.18	101	112	P	H
		5363.97	45.09	-8.91	54	31.65	34.91	11.71	33.18	101	112	A	H
		5148.65	66.02	-7.98	74	52.35	34.61	11.55	32.49	262	283	P	V
		5150	53.23	-0.77	54	39.56	34.61	11.55	32.49	262	283	A	V
	*	5212	100.97	-	-	87.23	34.7	11.59	32.55	262	283	P	V
	*	5212	90.37	-	-	76.63	34.7	11.59	32.55	262	283	A	V
		5395.43	58.41	-15.59	74	44.99	34.96	11.74	33.28	262	283	P	V
		5370.13	45.63	-8.37	54	32.19	34.91	11.71	33.18	262	283	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 42 5210MHz		10420	41.83	-32.17	74	48.08	37.25	16.37	59.87	100	0	P	H
		15630	45.59	-28.41	74	42.53	40.47	20.41	57.82	100	0	P	H
													H
													H
		10420	42.34	-31.66	74	48.59	37.25	16.37	59.87	100	0	P	V
		15630	45.78	-28.22	74	42.72	40.47	20.41	57.82	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5120.3	56.63	-17.37	74	43.02	34.56	11.5	32.45	100	67	P	H
		5143.7	43.51	-10.49	54	29.8	34.61	11.55	32.45	100	67	A	H
	*	5261	105.17	-	-	91.51	34.77	11.65	32.76	100	67	P	H
	*	5261	95.9	-	-	82.24	34.77	11.65	32.76	100	67	A	H
		5370.35	57.2	-16.8	74	43.76	34.91	11.71	33.18	100	67	P	H
		5384.43	43.86	-10.14	54	30.46	34.94	11.74	33.28	100	67	A	H
		5005.55	57.3	-16.7	74	43.8	34.42	11.37	32.29	264	97	P	V
		5148.95	43.46	-10.54	54	29.79	34.61	11.55	32.49	264	97	A	V
	*	5260	111.77	-	-	98.14	34.77	11.62	32.76	264	97	P	V
	*	5260	102.44	-	-	88.81	34.77	11.62	32.76	264	97	A	V
		5382.89	57.46	-16.54	74	44.06	34.94	11.74	33.28	264	97	P	V
		5394.11	44.01	-9.99	54	30.61	34.94	11.74	33.28	264	97	A	V
802.11a CH 60 5300MHz		5123.15	57.01	-16.99	74	43.37	34.59	11.5	32.45	100	66	P	H
		5145.5	43.51	-10.49	54	29.84	34.61	11.55	32.49	100	66	A	H
	*	5299	105.48	-	-	91.98	34.82	11.65	32.97	100	66	P	H
	*	5299	95.68	-	-	82.18	34.82	11.65	32.97	100	66	A	H
		5351.1	61.15	-12.85	74	47.73	34.89	11.71	33.18	100	66	P	H
		5352.64	44.03	-9.97	54	30.61	34.89	11.71	33.18	100	66	A	H
		5021.3	57.42	-16.58	74	43.88	34.45	11.41	32.32	264	97	P	V
		5007.2	43.55	-10.45	54	30.05	34.42	11.37	32.29	264	97	A	V
	*	5302	111.39	-	-	97.86	34.82	11.68	32.97	264	97	P	V
	*	5302	102.27	-	-	88.74	34.82	11.68	32.97	264	97	A	V
		5350.55	67.83	-6.17	74	54.41	34.89	11.71	33.18	264	97	P	V
		5351.76	45.48	-8.52	54	32.06	34.89	11.71	33.18	264	97	A	V



802.11a CH 64 5320MHz	*	5320	105.32	-	-	91.77	34.84	11.68	32.97	100	66	P	H
	*	5320	95.89	-	-	82.34	34.84	11.68	32.97	100	66	A	H
		5350.99	69.38	-4.62	74	55.96	34.89	11.71	33.18	100	66	P	H
		5350.33	46.71	-7.29	54	33.29	34.89	11.71	33.18	100	66	A	H
													H
													H
	*	5323	112.08	-	-	98.64	34.84	11.68	33.08	258	94	P	V
	*	5323	102.47	-	-	89.03	34.84	11.68	33.08	258	94	A	V
		5350.33	72.35	-1.65	74	58.93	34.89	11.71	33.18	258	94	P	V
		5350.11	50.83	-3.17	54	37.41	34.89	11.71	33.18	258	94	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		10520	41.35	-32.65	74	47.32	37.32	16.49	59.78	100	0	P	H
		15780	47.83	-26.17	74	44.47	40.63	20.46	57.73	100	0	P	H
													H
													H
		10520	41.03	-32.97	74	47	37.32	16.49	59.78	100	0	P	V
		15780	47.83	-26.17	74	44.47	40.63	20.46	57.73	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	41.13	-32.87	74	46.81	37.42	16.56	59.66	100	0	P	H
		15900	47.5	-26.5	74	43.86	40.78	20.52	57.66	100	0	P	H
													H
													H
		10600	40.97	-33.03	74	46.65	37.42	16.56	59.66	100	0	P	V
		15900	47.74	-26.26	74	44.1	40.78	20.52	57.66	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	40.4	-33.6	74	45.94	37.47	16.6	59.61	100	0	P	H
		15960	47	-27	74	43.21	40.86	20.55	57.62	100	0	P	H
													H
													H
		10640	40.09	-33.91	74	45.63	37.47	16.6	59.61	100	0	P	V
		15960	46.41	-27.59	74	42.62	40.86	20.55	57.62	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 52 5260MHz		5383.28	57.3	-16.7	74	43.9	34.94	11.74	33.28	216	85	P	H
		5406	44.26	-9.74	54	30.95	34.96	11.74	33.39	216	85	A	H
	*	5260	105.79	-	-	92.16	34.77	11.62	32.76	216	85	P	H
	*	5260	95.69	-	-	82.06	34.77	11.62	32.76	216	85	A	H
		5740.6	56.76	-17.24	74	43.36	35.24	12.33	34.17	216	85	P	H
		5746.6	44.04	-9.96	54	30.64	35.24	12.33	34.17	216	85	A	H
		5434.64	58.15	-15.85	74	44.82	35.01	11.8	33.48	305	85	P	V
		5395.12	44.31	-9.69	54	30.89	34.96	11.74	33.28	305	85	A	V
	*	5260	110.59	-	-	96.96	34.77	11.62	32.76	305	85	P	V
	*	5260	100.26	-	-	86.63	34.77	11.62	32.76	305	85	A	V
		5762.6	57.7	-16.3	74	44.31	35.26	12.33	34.2	305	85	P	V
		5755.96	44	-10	54	30.61	35.26	12.33	34.2	305	85	A	V
802.11n HT20 CH 60 5300MHz		5383.28	57.26	-16.74	74	43.86	34.94	11.74	33.28	237	85	P	H
		5354.48	44.41	-9.59	54	30.99	34.89	11.71	33.18	237	85	A	H
	*	5300	105.94	-	-	92.44	34.82	11.65	32.97	237	85	P	H
	*	5300	95.39	-	-	81.89	34.82	11.65	32.97	237	85	A	H
		5760.76	57.29	-16.71	74	43.9	35.26	12.33	34.2	237	85	P	H
		5753.96	44.05	-9.95	54	30.63	35.26	12.33	34.17	237	85	A	H
		5351.92	59.24	-14.76	74	45.82	34.89	11.71	33.18	282	80	P	V
		5351.76	44.93	-9.07	54	31.51	34.89	11.71	33.18	282	80	A	V
	*	5300	110.3	-	-	96.8	34.82	11.65	32.97	282	80	P	V
	*	5300	100.22	-	-	86.72	34.82	11.65	32.97	282	80	A	V
		5729.48	57.75	-16.25	74	44.41	35.23	12.26	34.15	282	80	P	V
		5752.12	43.98	-10.02	54	30.56	35.26	12.33	34.17	282	80	A	V



802.11n HT20 CH 64 5320MHz	*	5320	106.47	-	-	92.92	34.84	11.68	32.97	234	86	P	H
	*	5320	96.03	-	-	82.48	34.84	11.68	32.97	234	86	A	H
		5358.25	65.28	-8.72	74	51.86	34.89	11.71	33.18	234	86	P	H
		5350.77	46.25	-7.75	54	32.83	34.89	11.71	33.18	234	86	A	H
													H
													H
	*	5320	111.14	-	-	97.59	34.84	11.68	32.97	267	94	P	V
	*	5320	100.67	-	-	87.12	34.84	11.68	32.97	267	94	A	V
		5352.42	69.62	-4.38	74	56.2	34.89	11.71	33.18	267	94	P	V
		5350	48.82	-5.18	54	35.4	34.89	11.71	33.18	267	94	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 52 5260MHz		10520	42.39	-31.61	74	48.36	37.32	16.49	59.78	100	0	P	H
		15780	47.01	-26.99	74	43.65	40.63	20.46	57.73	100	0	P	H
													H
													H
		10520	41.95	-32.05	74	47.92	37.32	16.49	59.78	100	0	P	V
		15780	48.07	-25.93	74	44.71	40.63	20.46	57.73	100	0	P	V
													V
													V
802.11n HT20 CH 60 5300MHz		10600	41.21	-32.79	74	46.89	37.42	16.56	59.66	100	0	P	H
		15900	47.25	-26.75	74	43.61	40.78	20.52	57.66	100	0	P	H
													H
													H
		10600	40.75	-33.25	74	46.43	37.42	16.56	59.66	100	0	P	V
		15900	47.29	-26.71	74	43.65	40.78	20.52	57.66	100	0	P	V
													V
													V
802.11n HT20 CH 64 5320MHz		10640	42.5	-31.5	74	48.04	37.47	16.6	59.61	100	0	P	H
		15960	46.97	-27.03	74	43.18	40.86	20.55	57.62	100	0	P	H
													H
													H
		10640	42.44	-31.56	74	47.98	37.47	16.6	59.61	100	0	P	V
		15960	47.35	-26.65	74	43.56	40.86	20.55	57.62	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 54 5270MHz		5127.2	57.04	-16.96	74	43.4	34.59	11.5	32.45	223	83	P	H
		5144.45	44.26	-9.74	54	30.59	34.61	11.55	32.49	223	83	A	H
	*	5270	102.57	-	-	88.91	34.77	11.65	32.76	223	83	P	H
	*	5270	92.14	-	-	78.48	34.77	11.65	32.76	223	83	A	H
		5354.84	60.61	-13.39	74	47.19	34.89	11.71	33.18	223	83	P	H
		5399.17	44.8	-9.2	54	31.49	34.96	11.74	33.39	223	83	A	H
		5126.75	59.5	-14.5	74	45.86	34.59	11.5	32.45	285	91	P	V
		5118.95	44.23	-9.77	54	30.62	34.56	11.5	32.45	285	91	A	V
	*	5270	107.28	-	-	93.62	34.77	11.65	32.76	285	91	P	V
	*	5270	97.19	-	-	83.53	34.77	11.65	32.76	285	91	A	V
		5363.2	62.38	-11.62	74	48.94	34.91	11.71	33.18	285	91	P	V
		5350	44.95	-9.05	54	31.53	34.89	11.71	33.18	285	91	A	V
802.11n HT40 CH 62 5310MHz		5090	56.89	-17.11	74	43.28	34.54	11.46	32.39	294	194	P	H
		5143.25	44.72	-9.28	54	31.01	34.61	11.55	32.45	294	194	A	H
	*	5310	101.2	-	-	87.65	34.84	11.68	32.97	294	194	P	H
	*	5310	90.45	-	-	76.9	34.84	11.68	32.97	294	194	A	H
		5351.54	69.12	-4.88	74	55.7	34.89	11.71	33.18	294	194	P	H
		5350.22	49.9	-4.1	54	36.48	34.89	11.71	33.18	294	194	A	H
		5089.4	57.44	-16.56	74	43.83	34.54	11.46	32.39	266	290	P	V
		5145.05	44.89	-9.11	54	31.22	34.61	11.55	32.49	266	290	A	V
	*	5310	104.79	-	-	91.24	34.84	11.68	32.97	266	290	P	V
	*	5310	95.39	-	-	81.84	34.84	11.68	32.97	266	290	A	V
		5351.65	68.6	-5.4	74	55.18	34.89	11.71	33.18	266	290	P	V
		5350.11	51.79	-2.21	54	38.37	34.89	11.71	33.18	266	290	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 54 5270MHz		10540	42.95	-31.05	74	48.87	37.34	16.49	59.75	100	0	P	H
		15810	46.83	-27.17	74	43.39	40.67	20.48	57.71	100	0	P	H
													H
													H
		10540	42.13	-31.87	74	48.05	37.34	16.49	59.75	100	0	P	V
		15810	47.27	-26.73	74	43.83	40.67	20.48	57.71	100	0	P	V
													V
													V
802.11n HT40 CH 62 5310MHz		10620	41	-33	74	46.63	37.44	16.56	59.63	100	0	P	H
		15930	47.24	-26.76	74	43.53	40.82	20.53	57.64	100	0	P	H
													H
													H
		10620	40.86	-33.14	74	46.49	37.44	16.56	59.63	100	0	P	V
		15930	47.29	-26.71	74	43.58	40.82	20.53	57.64	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 2 5250~5350MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 52 5260MHz		5091.05	57.24	-16.76	74	43.63	34.54	11.46	32.39	300	194	P	H
		5133.8	43.93	-10.07	54	30.29	34.59	11.5	32.45	300	194	A	H
	*	5258	104.59	-	-	90.98	34.75	11.62	32.76	300	194	P	H
	*	5258	94.77	-	-	81.16	34.75	11.62	32.76	300	194	A	H
		5436.46	57.82	-16.18	74	44.49	35.01	11.8	33.48	300	194	P	H
		5407.09	44.3	-9.7	54	30.99	34.96	11.74	33.39	300	194	A	H
		5142.95	57.15	-16.85	74	43.44	34.61	11.55	32.45	209	285	P	V
		5143.7	43.83	-10.17	54	30.12	34.61	11.55	32.45	209	285	A	V
	*	5260	109.6	-	-	95.97	34.77	11.62	32.76	209	285	P	V
	*	5260	100.33	-	-	86.7	34.77	11.62	32.76	209	285	A	V
		5383	57.46	-16.54	74	44.06	34.94	11.74	33.28	209	285	P	V
802.11ac VHT20 CH 60 5300MHz		5097.2	57.74	-16.26	74	44.16	34.54	11.46	32.42	274	195	P	H
		5123.15	43.84	-10.16	54	30.2	34.59	11.5	32.45	274	195	A	H
	*	5299	105.78	-	-	92.28	34.82	11.65	32.97	274	195	P	H
	*	5299	95.81	-	-	82.31	34.82	11.65	32.97	274	195	A	H
		5356.16	58.48	-15.52	74	45.06	34.89	11.71	33.18	274	195	P	H
		5352.53	44.49	-9.51	54	31.07	34.89	11.71	33.18	274	195	A	H
		5115.5	56.91	-17.09	74	43.27	34.56	11.5	32.42	222	285	P	V
		5132.9	43.81	-10.19	54	30.17	34.59	11.5	32.45	222	285	A	V
	*	5300	110.44	-	-	96.94	34.82	11.65	32.97	222	285	P	V
	*	5300	100.91	-	-	87.41	34.82	11.65	32.97	222	285	A	V
		5351.1	61.53	-12.47	74	48.11	34.89	11.71	33.18	222	285	P	V
		5350.88	44.8	-9.2	54	31.38	34.89	11.71	33.18	222	285	A	V



802.11ac VHT20 CH 64 5320MHz		5000.6	57.1	-16.9	74	43.62	34.4	11.37	32.29	274	195	P	H
		5143.55	44.01	-9.99	54	30.3	34.61	11.55	32.45	274	195	A	H
	*	5319	106.07	-	-	92.52	34.84	11.68	32.97	274	195	P	H
	*	5319	96.02	-	-	82.47	34.84	11.68	32.97	274	195	A	H
		5350.66	69.3	-4.7	74	55.88	34.89	11.71	33.18	274	195	P	H
		5350.22	46.39	-7.61	54	32.97	34.89	11.71	33.18	274	195	A	H
		5144	57.64	-16.36	74	43.97	34.61	11.55	32.49	266	291	P	V
		5141	43.87	-10.13	54	30.16	34.61	11.55	32.45	266	291	A	V
	*	5320	109.93	-	-	96.38	34.84	11.68	32.97	266	291	P	V
	*	5320	100.16	-	-	86.61	34.84	11.68	32.97	266	291	A	V
		5351.43	70.99	-3.01	74	57.57	34.89	11.71	33.18	266	291	P	V
		5350.99	47.48	-6.52	54	34.06	34.89	11.71	33.18	266	291	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 2 5250~5350MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 52 5260MHz		10520	42.81	-31.19	74	48.78	37.32	16.49	59.78	100	0	P	H
		15780	48.23	-25.77	74	44.87	40.63	20.46	57.73	100	0	P	H
													H
													H
		10520	44.33	-29.67	74	50.3	37.32	16.49	59.78	100	0	P	V
		15780	47.49	-26.51	74	44.13	40.63	20.46	57.73	100	0	P	V
													V
													V
802.11ac VHT20 CH 60 5300MHz		10600	41.45	-32.55	74	47.13	37.42	16.56	59.66	100	0	P	H
		15900	47.5	-26.5	74	43.86	40.78	20.52	57.66	100	0	P	H
													H
													H
		10600	41	-33	74	46.68	37.42	16.56	59.66	100	0	P	V
		15900	47.36	-26.64	74	43.72	40.78	20.52	57.66	100	0	P	V
													V
													V
802.11ac VHT20 CH 64 5320MHz		10640	40.94	-33.06	74	46.48	37.47	16.6	59.61	100	0	P	H
		15960	47.48	-26.52	74	43.69	40.86	20.55	57.62	100	0	P	H
													H
													H
		10640	43.53	-30.47	74	49.07	37.47	16.6	59.61	100	0	P	V
		15960	46.56	-27.44	74	42.77	40.86	20.55	57.62	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 2 5250~5350MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT40 CH 54 5270MHz		5078	57.26	-16.74	74	43.67	34.52	11.46	32.39	224	84	P	H
		5132.15	44.29	-9.71	54	30.65	34.59	11.5	32.45	224	84	A	H
	*	5270	102.74	-	-	89.08	34.77	11.65	32.76	224	84	P	H
	*	5270	92.5	-	-	78.84	34.77	11.65	32.76	224	84	A	H
		5354.51	61.65	-12.35	74	48.23	34.89	11.71	33.18	224	84	P	H
		5350.22	44.68	-9.32	54	31.26	34.89	11.71	33.18	224	84	A	H
		5146.85	59.15	-14.85	74	45.48	34.61	11.55	32.49	284	94	P	V
		5147.6	44.36	-9.64	54	30.69	34.61	11.55	32.49	284	94	A	V
	*	5270	107.34	-	-	93.68	34.77	11.65	32.76	284	94	P	V
	*	5270	97.23	-	-	83.57	34.77	11.65	32.76	284	94	A	V
		5369.47	63.44	-10.56	74	50	34.91	11.71	33.18	284	94	P	V
802.11ac VHT40 CH 62 5310MHz		5092.1	57.3	-16.7	74	43.69	34.54	11.46	32.39	217	85	P	H
		5144	44.23	-9.77	54	30.56	34.61	11.55	32.49	217	85	A	H
	*	5310	102.21	-	-	88.66	34.84	11.68	32.97	217	85	P	H
	*	5310	92.06	-	-	78.51	34.84	11.68	32.97	217	85	A	H
		5356.71	68.59	-5.41	74	55.17	34.89	11.71	33.18	217	85	P	H
		5350.66	49.99	-4.01	54	36.57	34.89	11.71	33.18	217	85	A	H
		5007.2	58.5	-15.5	74	45	34.42	11.37	32.29	296	87	P	V
		5147.15	44.51	-9.49	54	30.84	34.61	11.55	32.49	296	87	A	V
	*	5310	107.42	-	-	93.87	34.84	11.68	32.97	296	87	P	V
	*	5310	96.78	-	-	83.23	34.84	11.68	32.97	296	87	A	V
		5356.49	71.15	-2.85	74	57.73	34.89	11.71	33.18	296	87	P	V
		5350.11	53.4	-0.6	54	39.98	34.89	11.71	33.18	296	87	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 2 5250~5350MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT40 CH 54 5270MHz		10540	41.88	-32.12	74	47.8	37.34	16.49	59.75	100	0	P	H
		15810	47	-27	74	43.56	40.67	20.48	57.71	100	0	P	H
													H
													H
		10540	42.47	-31.53	74	48.39	37.34	16.49	59.75	100	0	P	V
		15810	47.09	-26.91	74	43.65	40.67	20.48	57.71	100	0	P	V
													V
													V
802.11ac VHT40 CH 62 5310MHz		10620	41.1	-32.9	74	46.73	37.44	16.56	59.63	100	0	P	H
		15930	47.53	-26.47	74	43.82	40.82	20.53	57.64	100	0	P	H
													H
													H
		10620	40.82	-33.18	74	46.45	37.44	16.56	59.63	100	0	P	V
		15930	46.28	-27.72	74	42.57	40.82	20.53	57.64	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 58 5290MHz		5120.45	57.37	-16.63	74	43.76	34.56	11.5	32.45	100	115	P	H
		5148.65	44.88	-9.12	54	31.21	34.61	11.55	32.49	100	115	A	H
	*	5290	97.31	-	-	83.72	34.8	11.65	32.86	100	115	P	H
	*	5290	87.81	-	-	74.22	34.8	11.65	32.86	100	115	A	H
		5360.12	63.33	-10.67	74	49.91	34.89	11.71	33.18	100	115	P	H
		5355.94	47.75	-6.25	54	34.33	34.89	11.71	33.18	100	115	A	H
		5064.95	57.12	-16.88	74	43.52	34.49	11.46	32.35	273	287	P	V
		5140.7	44.81	-9.19	54	31.1	34.61	11.55	32.45	273	287	A	V
	*	5290	101.96	-	-	88.37	34.8	11.65	32.86	273	287	P	V
	*	5290	92.44	-	-	78.85	34.8	11.65	32.86	273	287	A	V
		5358.14	65.25	-8.75	74	51.83	34.89	11.71	33.18	273	287	P	V
		5352.2	49.1	-4.9	54	35.68	34.89	11.71	33.18	273	287	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 58 5290MHz		10580	41.3	-32.7	74	47.06	37.4	16.52	59.68	100	0	P	H
		15870	48.22	-25.78	74	44.61	40.76	20.52	57.67	100	0	P	H
													H
													H
		10580	41.62	-32.38	74	47.38	37.4	16.52	59.68	100	0	P	V
		15870	48	-26	74	44.39	40.76	20.52	57.67	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5464.24	66.78	-7.22	74	53.44	35.05	11.86	33.57	100	68	P	H
		5470	48.77	-5.23	54	35.43	35.05	11.86	33.57	100	68	A	H
	*	5500	104.33	-	-	91.03	35.1	11.86	33.66	100	68	P	H
	*	5500	95.06	-	-	81.76	35.1	11.86	33.66	100	68	A	H
													H
													H
		5461.68	72.2	-1.8	74	58.88	35.03	11.86	33.57	256	94	P	V
		5470	53.32	-0.68	54	39.98	35.05	11.86	33.57	256	94	A	V
	*	5502	111.7	-	-	98.42	35.1	11.92	33.74	256	94	P	V
	*	5502	101.69	-	-	88.41	35.1	11.92	33.74	256	94	A	V
													V
													V
802.11a CH 116 5580MHz		5390.8	56.44	-17.56	74	43.04	34.94	11.74	33.28	100	114	P	H
		5390.8	43.8	-10.2	54	30.4	34.94	11.74	33.28	100	114	A	H
	*	5582	105.48	-	-	92.3	35.15	12.04	34.01	100	114	P	H
	*	5582	96.63	-	-	83.45	35.15	12.04	34.01	100	114	A	H
		5745.72	56.77	-17.23	74	43.37	35.24	12.33	34.17	100	114	P	H
		5756.28	43.51	-10.49	54	30.12	35.26	12.33	34.2	100	114	A	H
		5430.48	57.09	-16.91	74	43.76	35.01	11.8	33.48	227	101	P	V
		5395.44	43.96	-10.04	54	30.54	34.96	11.74	33.28	227	101	A	V
	*	5579	110.19	-	-	97.08	35.14	11.98	34.01	227	101	P	V
	*	5579	100.63	-	-	87.52	35.14	11.98	34.01	227	101	A	V
		5763.32	57.05	-16.95	74	43.66	35.26	12.33	34.2	227	101	P	V
		5761.64	43.52	-10.48	54	30.13	35.26	12.33	34.2	227	101	A	V



802.11a CH 140 5700MHz	*	5700	102.33	-	-	89.06	35.21	12.18	34.12	100	66	P	H
	*	5700	93.09	-	-	79.82	35.21	12.18	34.12	100	66	A	H
		5725.48	67.86	-6.14	74	54.52	35.23	12.26	34.15	100	66	P	H
		5725	46.76	-7.24	54	33.42	35.23	12.26	34.15	100	66	A	H
													H
													H
	*	5700	109.16	-	-	95.89	35.21	12.18	34.12	224	95	P	V
	*	5700	99.5	-	-	86.23	35.21	12.18	34.12	224	95	A	V
		5725.4	73.35	-0.65	74	60.01	35.23	12.26	34.15	224	95	P	V
		5726.6	52.3	-1.7	54	38.96	35.23	12.26	34.15	224	95	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		11000	45.95	-28.05	74	50.21	37.9	16.94	59.1	100	0	P	H
		16500	48.82	-25.18	74	43.34	41.4	20.88	56.8	100	0	P	H
													H
													H
		11000	46.66	-27.34	74	50.92	37.9	16.94	59.1	100	0	P	V
		16500	49.49	-24.51	74	44.01	41.4	20.88	56.8	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	45.14	-28.86	74	48.73	38	17.08	58.67	100	0	P	H
		16740	48.4	-25.6	74	42.09	41.88	21.04	56.61	100	0	P	H
													H
													H
		11160	47.06	-26.94	74	50.65	38	17.08	58.67	100	0	P	V
		16740	48.42	-25.58	74	42.11	41.88	21.04	56.61	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	45.31	-28.69	74	47.92	38.14	17.31	58.06	100	0	P	H
		17100	50.16	-23.84	74	43.03	42.32	21.27	56.46	100	0	P	H
													H
													H
		11400	46.3	-27.7	74	48.91	38.14	17.31	58.06	100	0	P	V
		17100	49.72	-24.28	74	42.59	42.32	21.27	56.46	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 100 5500MHz		5464.88	66.36	-7.64	74	53.02	35.05	11.86	33.57	275	60	P	H
		5469.84	45.43	-8.57	54	32.09	35.05	11.86	33.57	275	60	A	H
	*	5500	105.28	-	-	91.98	35.1	11.86	33.66	275	60	P	H
	*	5500	94.76	-	-	81.46	35.1	11.86	33.66	275	60	A	H
													H
													H
		5469.68	71.83	-2.17	74	58.49	35.05	11.86	33.57	309	99	P	V
		5470	47.69	-6.31	54	34.35	35.05	11.86	33.57	309	99	A	V
	*	5500	110.36	-	-	97.06	35.1	11.86	33.66	309	99	P	V
	*	5500	100.21	-	-	86.91	35.1	11.86	33.66	309	99	A	V
													V
													V
802.11n HT20 CH 116 5580MHz		5410.96	57.42	-16.58	74	44.11	34.96	11.74	33.39	218	84	P	H
		5383.6	44.31	-9.69	54	30.91	34.94	11.74	33.28	218	84	A	H
	*	5580	105.54	-	-	92.43	35.14	11.98	34.01	218	84	P	H
	*	5580	95.12	-	-	82.01	35.14	11.98	34.01	218	84	A	H
		5741.96	57.61	-16.39	74	44.21	35.24	12.33	34.17	218	84	P	H
		5726.36	43.99	-10.01	54	30.65	35.23	12.26	34.15	218	84	A	H
		5354.32	57.77	-16.23	74	44.35	34.89	11.71	33.18	318	102	P	V
		5385.36	44.25	-9.75	54	30.85	34.94	11.74	33.28	318	102	A	V
	*	5580	110.46	-	-	97.35	35.14	11.98	34.01	318	102	P	V
	*	5580	100.14	-	-	87.03	35.14	11.98	34.01	318	102	A	V
		5761.48	57	-17	74	43.61	35.26	12.33	34.2	318	102	P	V
		5765	44.1	-9.9	54	30.71	35.26	12.33	34.2	318	102	A	V



802.11n HT20 CH 140 5700MHz	*	5700	105.43	-	-	92.16	35.21	12.18	34.12	102	88	P	H
	*	5700	95.17	-	-	81.9	35.21	12.18	34.12	102	88	A	H
		5725.64	67.96	-6.04	74	54.62	35.23	12.26	34.15	102	88	P	H
		5725.08	46.31	-7.69	54	32.97	35.23	12.26	34.15	102	88	A	H
													H
													H
	*	5700	110.41	-	-	97.14	35.21	12.18	34.12	270	77	P	V
	*	5700	100.32	-	-	87.05	35.21	12.18	34.12	270	77	A	V
		5726.44	73.43	-0.57	74	60.09	35.23	12.26	34.15	270	77	P	V
		5725.08	50.53	-3.47	54	37.19	35.23	12.26	34.15	270	77	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 100 5500MHz		11000	43.28	-30.72	74	47.54	37.9	16.94	59.1	100	0	P	H
		16500	47.65	-26.35	74	42.17	41.4	20.88	56.8	100	0	P	H
													H
													H
		11000	44.02	-29.98	74	48.28	37.9	16.94	59.1	100	0	P	V
		16500	48.15	-25.85	74	42.67	41.4	20.88	56.8	100	0	P	V
													V
													V
802.11n HT20 CH 116 5580MHz		11160	43.63	-30.37	74	47.22	38	17.08	58.67	100	0	P	H
		16740	48.62	-25.38	74	42.31	41.88	21.04	56.61	100	0	P	H
													H
													H
		11160	43.57	-30.43	74	47.16	38	17.08	58.67	100	0	P	V
		16740	48.03	-25.97	74	41.72	41.88	21.04	56.61	100	0	P	V
													V
													V
802.11n HT20 CH 140 5700MHz		11400	45.68	-28.32	74	48.29	38.14	17.31	58.06	100	0	P	H
		17100	49.76	-24.24	74	42.63	42.32	21.27	56.46	100	0	P	H
													H
													H
		11400	46.12	-27.88	74	48.73	38.14	17.31	58.06	100	0	P	V
		17100	49.45	-24.55	74	42.32	42.32	21.27	56.46	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 102 5510MHz		5464.24	66.77	-7.23	74	53.43	35.05	11.86	33.57	294	196	P	H
		5470	49.11	-4.89	54	35.77	35.05	11.86	33.57	294	196	A	H
	*	5510	98.84	-	-	85.56	35.1	11.92	33.74	294	196	P	H
	*	5510	89.27	-	-	75.99	35.1	11.92	33.74	294	196	A	H
		5755.72	57.68	-16.32	74	44.26	35.26	12.33	34.17	294	196	P	H
		5764.44	44.61	-9.39	54	31.22	35.26	12.33	34.2	294	196	A	H
		5467.12	69.31	-4.69	74	55.97	35.05	11.86	33.57	266	288	P	V
		5469.84	53.47	-0.53	54	40.13	35.05	11.86	33.57	266	288	A	V
	*	5510	103.36	-	-	90.08	35.1	11.92	33.74	266	288	P	V
	*	5510	94.5	-	-	81.22	35.1	11.92	33.74	266	288	A	V
		5747.32	57.44	-16.56	74	44.04	35.24	12.33	34.17	266	288	P	V
		5755	44.72	-9.28	54	31.3	35.26	12.33	34.17	266	288	A	V
802.11n HT40 CH 110 5550MHz		5469.2	60.34	-13.66	74	47	35.05	11.86	33.57	284	198	P	H
		5358	45.02	-8.98	54	31.6	34.89	11.71	33.18	284	198	A	H
	*	5550	101.27	-	-	87.99	35.13	11.98	33.83	284	198	P	H
	*	5550	90.73	-	-	77.45	35.13	11.98	33.83	284	198	A	H
		5725.16	57.61	-16.39	74	44.27	35.23	12.26	34.15	284	198	P	H
		5732.76	44.66	-9.34	54	31.34	35.23	12.26	34.17	284	198	A	H
		5466.96	61.96	-12.04	74	48.62	35.05	11.86	33.57	229	282	P	V
		5386	44.9	-9.1	54	31.5	34.94	11.74	33.28	229	282	A	V
	*	5550	105.38	-	-	92.1	35.13	11.98	33.83	229	282	P	V
	*	5550	95.46	-	-	82.18	35.13	11.98	33.83	229	282	A	V
		5753	58.92	-15.08	74	45.5	35.26	12.33	34.17	229	282	P	V
		5739.32	44.93	-9.07	54	31.6	35.24	12.26	34.17	229	282	A	V



802.11n HT40 CH 134 5670MHz		5381.04	58.12	-15.88	74	44.72	34.94	11.74	33.28	236	221	P	H
		5374	44.99	-9.01	54	31.65	34.91	11.71	33.28	236	221	A	H
	*	5670	102.52	-	-	89.23	35.2	12.18	34.09	236	221	P	H
	*	5670	92.1	-	-	78.81	35.2	12.18	34.09	236	221	A	H
		5729.72	65.95	-8.05	74	52.61	35.23	12.26	34.15	236	221	P	H
		5725.56	47.44	-6.56	54	34.1	35.23	12.26	34.15	236	221	A	H
		5440.4	58.31	-15.69	74	44.98	35.01	11.8	33.48	263	282	P	V
		5368.4	45.2	-8.8	54	31.76	34.91	11.71	33.18	263	282	A	V
	*	5670	105.52	-	-	92.23	35.2	12.18	34.09	263	282	P	V
	*	5670	95.07	-	-	81.78	35.2	12.18	34.09	263	282	A	V
		5729.08	65.83	-8.17	74	52.49	35.23	12.26	34.15	263	282	P	V
		5726.12	47.01	-6.99	54	33.67	35.23	12.26	34.15	263	282	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 102 5510MHz		11020	44.13	-29.87	74	48.34	37.91	16.94	59.06	100	0	P	H
		16530	47.23	-26.77	74	41.62	41.47	20.91	56.77	100	0	P	H
													H
													H
		11020	44.08	-29.92	74	48.29	37.91	16.94	59.06	100	0	P	V
		16530	47.38	-26.62	74	41.77	41.47	20.91	56.77	100	0	P	V
													V
													V
802.11n HT40 CH 110 5550MHz		11100	43.84	-30.16	74	47.71	37.96	17.01	58.84	100	0	P	H
		16650	48.69	-25.31	74	42.67	41.71	20.99	56.68	100	0	P	H
													H
													H
		11100	43.12	-30.88	74	46.99	37.96	17.01	58.84	100	0	P	V
		16650	47.98	-26.02	74	41.96	41.71	20.99	56.68	100	0	P	V
													V
													V
802.11n HT40 CH 134 5670MHz		11340	45.16	-28.84	74	48.06	38.1	17.23	58.23	100	0	P	H
		17010	50	-24	74	42.8	42.39	21.22	56.41	100	0	P	H
													H
													H
		11340	46.17	-27.83	74	49.07	38.1	17.23	58.23	100	0	P	V
		17010	49.9	-24.1	74	42.7	42.39	21.22	56.41	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 3 - 5470~5725MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 100 5500MHz		5461.2	66.36	-7.64	74	53.04	35.03	11.86	33.57	300	194	P	H
		5470	45.53	-8.47	54	32.19	35.05	11.86	33.57	300	194	A	H
	*	5499	105.02	-	-	91.72	35.1	11.86	33.66	300	194	P	H
	*	5499	95.46	-	-	82.16	35.1	11.86	33.66	300	194	A	H
		5729.32	57.22	-16.78	74	43.88	35.23	12.26	34.15	300	194	P	H
		5749.96	43.99	-10.01	54	30.59	35.24	12.33	34.17	300	194	A	H
		5464.24	69.55	-4.45	74	56.21	35.05	11.86	33.57	263	288	P	V
		5469.68	48.06	-5.94	54	34.72	35.05	11.86	33.57	263	288	A	V
	*	5500	110.26	-	-	96.96	35.1	11.86	33.66	263	288	P	V
	*	5500	100.38	-	-	87.08	35.1	11.86	33.66	263	288	A	V
		5760.6	57.05	-16.95	74	43.66	35.26	12.33	34.2	263	288	P	V
802.11ac VHT20 CH 116 5580MHz		5735.96	44.02	-9.98	54	30.69	35.24	12.26	34.17	263	288	A	V
		5380.88	57.4	-16.6	74	44	34.94	11.74	33.28	300	223	P	H
		5369.2	44.13	-9.87	54	30.69	34.91	11.71	33.18	300	223	A	H
	*	5580	104.68	-	-	91.57	35.14	11.98	34.01	300	223	P	H
	*	5580	95.34	-	-	82.23	35.14	11.98	34.01	300	223	A	H
		5738.92	57.54	-16.46	74	44.21	35.24	12.26	34.17	300	223	P	H
		5765	44.05	-9.95	54	30.66	35.26	12.33	34.2	300	223	A	H
		5392.24	57.67	-16.33	74	44.27	34.94	11.74	33.28	263	275	P	V
		5386.32	44.34	-9.66	54	30.94	34.94	11.74	33.28	263	275	A	V
	*	5582	110.5	-	-	97.32	35.15	12.04	34.01	263	275	P	V
	*	5582	100.15	-	-	86.97	35.15	12.04	34.01	263	275	A	V
		5751.96	57.43	-16.57	74	44.01	35.26	12.33	34.17	263	275	P	V
		5753.64	43.99	-10.01	54	30.57	35.26	12.33	34.17	263	275	A	V



802.11ac VHT20 CH 140 5700MHz		5375.76	57.32	-16.68	74	43.98	34.91	11.71	33.28	249	223	P	H
		5391.76	44.19	-9.81	54	30.79	34.94	11.74	33.28	249	223	A	H
	*	5700	107.02	-	-	93.75	35.21	12.18	34.12	249	223	P	H
	*	5700	96.45	-	-	83.18	35.21	12.18	34.12	249	223	A	H
		5726.04	71.35	-2.65	74	58.01	35.23	12.26	34.15	249	223	P	H
		5725	48.71	-5.29	54	35.37	35.23	12.26	34.15	249	223	A	H
		5408.24	57.63	-16.37	74	44.32	34.96	11.74	33.39	218	292	P	V
		5414.32	44.16	-9.84	54	30.83	34.98	11.74	33.39	218	292	A	V
	*	5698	109.51	-	-	96.24	35.21	12.18	34.12	218	292	P	V
	*	5698	99.62	-	-	86.35	35.21	12.18	34.12	218	292	A	V
		5726.84	72.96	-1.04	74	59.62	35.23	12.26	34.15	218	292	P	V
		5725.08	52.4	-1.6	54	39.06	35.23	12.26	34.15	218	292	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 3 - 5470~5725MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 100 5500MHz		11000	46.09	-27.91	74	50.35	37.9	16.94	59.1	100	0	P	H
		16500	47.86	-26.14	74	42.38	41.4	20.88	56.8	100	0	P	H
													H
													H
		11000	45.23	-28.77	74	49.49	37.9	16.94	59.1	100	0	P	V
		16500	47.93	-26.07	74	42.45	41.4	20.88	56.8	100	0	P	V
													V
													V
802.11ac VHT20 CH 116 5580MHz		11160	44.1	-29.9	74	47.69	38	17.08	58.67	100	0	P	H
		16740	48.66	-25.34	74	42.35	41.88	21.04	56.61	100	0	P	H
													H
													H
		11160	43.51	-30.49	74	47.1	38	17.08	58.67	100	0	P	V
		16740	48.97	-25.03	74	42.66	41.88	21.04	56.61	100	0	P	V
													V
													V
802.11ac VHT20 CH 140 5700MHz		11400	44.17	-29.83	74	46.78	38.14	17.31	58.06	100	0	P	H
		17100	49.57	-24.43	74	42.44	42.32	21.27	56.46	100	0	P	H
													H
													H
		11400	44.54	-29.46	74	47.15	38.14	17.31	58.06	100	0	P	V
		17100	49.49	-24.51	74	42.36	42.32	21.27	56.46	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 3 - 5470~5725MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT40 CH 102 5510MHz		5470	67.34	-6.66	74	54	35.05	11.86	33.57	269	60	P	H
		5470	49.54	-4.46	54	36.2	35.05	11.86	33.57	269	60	A	H
	*	5510	100.64	-	-	87.36	35.1	11.92	33.74	269	60	P	H
	*	5510	90.37	-	-	77.09	35.1	11.92	33.74	269	60	A	H
		5761.56	56.81	-17.19	74	43.42	35.26	12.33	34.2	269	60	P	H
		5754.84	44.55	-9.45	54	31.13	35.26	12.33	34.17	269	60	A	H
		5462.96	67.33	-6.67	74	53.99	35.05	11.86	33.57	309	100	P	V
		5470	52.55	-1.45	54	39.21	35.05	11.86	33.57	309	100	A	V
	*	5510	104.92	-	-	91.64	35.1	11.92	33.74	309	100	P	V
	*	5510	94.81	-	-	81.53	35.1	11.92	33.74	309	100	A	V
		5733.24	57.72	-16.28	74	44.4	35.23	12.26	34.17	309	100	P	V
802.11ac VHT40 CH 110 5550MHz		5762.28	44.41	-9.59	54	31.02	35.26	12.33	34.2	309	100	A	V
		5469.2	59.6	-14.4	74	46.26	35.05	11.86	33.57	239	58	P	H
		5412.72	44.69	-9.31	54	31.36	34.98	11.74	33.39	239	58	A	H
	*	5550	102.55	-	-	89.27	35.13	11.98	33.83	239	58	P	H
	*	5550	92.5	-	-	79.22	35.13	11.98	33.83	239	58	A	H
		5759.08	57.36	-16.64	74	43.97	35.26	12.33	34.2	239	58	P	H
		5725.08	44.42	-9.58	54	31.08	35.23	12.26	34.15	239	58	A	H
		5445.04	63.06	-10.94	74	49.73	35.01	11.8	33.48	274	77	P	V
		5394.8	44.77	-9.23	54	31.35	34.96	11.74	33.28	274	77	A	V
	*	5550	106.94	-	-	93.66	35.13	11.98	33.83	274	77	P	V
	*	5550	96.66	-	-	83.38	35.13	11.98	33.83	274	77	A	V
		5728.2	58.22	-15.78	74	44.88	35.23	12.26	34.15	274	77	P	V
		5732.52	44.51	-9.49	54	31.19	35.23	12.26	34.17	274	77	A	V



802.11ac VHT40 CH 134 5670MHz		5385.52	57.43	-16.57	74	44.03	34.94	11.74	33.28	254	59	P	H
		5392.72	44.68	-9.32	54	31.28	34.94	11.74	33.28	254	59	A	H
	*	5670	102.36	-	-	89.07	35.2	12.18	34.09	254	59	P	H
	*	5670	92.2	-	-	78.91	35.2	12.18	34.09	254	59	A	H
		5726.36	62.49	-11.51	74	49.15	35.23	12.26	34.15	254	59	P	H
		5725.64	46.36	-7.64	54	33.02	35.23	12.26	34.15	254	59	A	H
		5462	59.5	-14.5	74	46.18	35.03	11.86	33.57	276	77	P	V
		5394.48	44.66	-9.34	54	31.26	34.94	11.74	33.28	276	77	A	V
	*	5670	107.65	-	-	94.36	35.2	12.18	34.09	276	77	P	V
	*	5670	97.5	-	-	84.21	35.2	12.18	34.09	276	77	A	V
		5725.96	66.48	-7.52	74	53.14	35.23	12.26	34.15	276	77	P	V
		5725.08	49.86	-4.14	54	36.52	35.23	12.26	34.15	276	77	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 3 - 5470~5725MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT40 CH 102 5510MHz		11020	44.78	-29.22	74	48.99	37.91	16.94	59.06	100	0	P	H
		16530	47.02	-26.98	74	41.41	41.47	20.91	56.77	100	0	P	H
													H
													H
		11020	45.82	-28.18	74	50.03	37.91	16.94	59.06	100	0	P	V
		16530	47.18	-26.82	74	41.57	41.47	20.91	56.77	100	0	P	V
													V
													V
802.11ac VHT40 CH 110 5550MHz		11100	44.96	-29.04	74	48.83	37.96	17.01	58.84	100	0	P	H
		16650	48.28	-25.72	74	42.26	41.71	20.99	56.68	100	0	P	H
													H
													H
		11100	45.62	-28.38	74	49.49	37.96	17.01	58.84	100	0	P	V
		16650	48.05	-25.95	74	42.03	41.71	20.99	56.68	100	0	P	V
													V
													V
802.11ac VHT40 CH 134 5670MHz		11340	44.71	-29.29	74	47.61	38.1	17.23	58.23	100	0	P	H
		17010	49.38	-24.62	74	42.18	42.39	21.22	56.41	100	0	P	H
													H
													H
		11340	44.82	-29.18	74	47.72	38.1	17.23	58.23	100	0	P	V
		17010	49.61	-24.39	74	42.41	42.39	21.22	56.41	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 106 5530MHz		5469.84	60.93	-13.07	74	47.59	35.05	11.86	33.57	100	121	P	H
		5464.56	46.44	-7.56	54	33.1	35.05	11.86	33.57	100	121	A	H
	*	5530	95.46	-	-	82.26	35.11	11.92	33.83	100	121	P	H
	*	5530	86.28	-	-	73.08	35.11	11.92	33.83	100	121	A	H
		5758.92	57.47	-16.53	74	44.08	35.26	12.33	34.2	100	121	P	H
		5751.56	45.04	-8.96	54	31.62	35.26	12.33	34.17	100	121	A	H
		5462	64.11	-9.89	74	50.79	35.03	11.86	33.57	265	288	P	V
		5468.72	50.8	-3.2	54	37.46	35.05	11.86	33.57	265	288	A	V
	*	5530	100.27	-	-	87.07	35.11	11.92	33.83	265	288	P	V
	*	5530	90.82	-	-	77.62	35.11	11.92	33.83	265	288	A	V
		5740.44	57.51	-16.49	74	44.11	35.24	12.33	34.17	265	288	P	V
		5739.88	44.92	-9.08	54	31.59	35.24	12.26	34.17	265	288	A	V
802.11ac VHT80 CH 122 5610MHz		5404.88	57.64	-16.36	74	44.33	34.96	11.74	33.39	100	120	P	H
		5398.8	45.08	-8.92	54	31.77	34.96	11.74	33.39	100	120	A	H
	*	5609	98.08	-	-	84.92	35.16	12.04	34.04	100	120	P	H
	*	5609	88.69	-	-	75.53	35.16	12.04	34.04	100	120	A	H
		5727.24	58.06	-15.94	74	44.72	35.23	12.26	34.15	100	120	P	H
		5729.16	45.75	-8.25	54	32.41	35.23	12.26	34.15	100	120	A	H
		5410.8	58.6	-15.4	74	45.29	34.96	11.74	33.39	270	275	P	V
		5382.8	45.23	-8.77	54	31.83	34.94	11.74	33.28	270	275	A	V
	*	5610	101.82	-	-	88.66	35.16	12.04	34.04	270	275	P	V
	*	5610	92.66	-	-	79.5	35.16	12.04	34.04	270	275	A	V
		5761.24	57.6	-16.4	74	44.21	35.26	12.33	34.2	270	275	P	V
		5754.44	45.01	-8.99	54	31.59	35.26	12.33	34.17	270	275	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 106 5530MHz		11060	43.57	-30.43	74	47.59	37.94	16.97	58.93	100	0	P	H
		16590	48.07	-25.93	74	42.27	41.57	20.96	56.73	100	0	P	H
													H
													H
		11060	43.34	-30.66	74	47.36	37.94	16.97	58.93	100	0	P	V
		16590	47.21	-26.79	74	41.41	41.57	20.96	56.73	100	0	P	V
													V
													V
802.11ac VHT80 CH 122 5610MHz		11220	43.83	-30.17	74	47.22	38.03	17.12	58.54	100	0	P	H
		16830	50.35	-23.65	74	43.71	42.06	21.12	56.54	100	0	P	H
													H
													H
		11220	44.92	-29.08	74	48.31	38.03	17.12	58.54	100	0	P	V
		16830	49.97	-24.03	74	43.33	42.06	21.12	56.54	100	0	P	V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



15E Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz	*	5720	107.52	-	-	94.18	35.23	12.26	34.15	100	264	P	H
	*	5720	98.47	-	-	85.13	35.23	12.26	34.15	100	264	A	H
													H
													H
													H
													H
	*	5722	111.76	-	-	98.42	35.23	12.26	34.15	205	292	P	V
	*	5722	101.54	-	-	88.2	35.23	12.26	34.15	205	292	A	V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												

**15E band 3 - Straddle Channel****WIFI 802.11a (Harmonic @ 3m) (with PMA wireless charger)**

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		11439	46.39	-27.61	74	48.85	38.16	17.35	57.97	100	0	P	H
		17160	49.81	-24.19	74	42.72	42.27	21.32	56.5	100	0	P	H
													H
													H
		11439	48.16	-25.84	74	50.62	38.16	17.35	57.97	100	0	P	V
		17160	49.37	-24.63	74	42.28	42.27	21.32	56.5	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 3 - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 144 5720MHz	*	5720	105.61	-	-	92.27	35.23	12.26	34.15	100	264	P	H
	*	5720	94.48	-	-	81.14	35.23	12.26	34.15	100	264	A	H
													H
													H
													H
													H
	*	5720	108.24	-	-	94.9	35.23	12.26	34.15	205	292	P	V
	*	5720	97.91	-	-	84.57	35.23	12.26	34.15	205	292	A	V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												


15E band 3 - Straddle Channel
WIFI 802.11n HT20 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 144 5720MHz		11440	43.95	-30.05	74	46.41	38.16	17.35	57.97	100	0	P	H
		17160	50.02	-23.98	74	42.93	42.27	21.32	56.5	100	0	P	H
													H
													H
		11440	42.83	-31.17	74	45.29	38.16	17.35	57.97	100	0	P	V
		17160	49.98	-24.02	74	42.89	42.27	21.32	56.5	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 3 - Straddle Channel

WIFI 802.11n HT40 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 142 5710MHz	*	5710	101.76	-	-	88.43	35.22	12.26	34.15	102	264	P	H
	*	5710	91.11	-	-	77.78	35.22	12.26	34.15	102	264	A	H
													H
													H
													H
													H
	*	5710	105.3	-	-	91.97	35.22	12.26	34.15	205	292	P	V
	*	5710	94.16	-	-	80.83	35.22	12.26	34.15	205	292	A	V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												


15E band 3 - Straddle Channel
WIFI 802.11n HT40 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 142 5710MHz		11420	44.55	-29.45	74	47.11	38.15	17.31	58.02	100	0	P	H
		17130	50.98	-23.02	74	43.87	42.29	21.3	56.48	100	0	P	H
													H
													H
		11420	44.44	-29.56	74	47	38.15	17.31	58.02	100	0	P	V
		17130	50.17	-23.83	74	43.06	42.29	21.3	56.48	100	0	P	V
													V
													V
Remark		1. No other spurious found. 2. All results are PASS against Peak and Average limit line.											



15E band 3 - Straddle Channel

WIFI 802.11ac VHT20 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 144 5720MHz	*	5720	106.22	-	-	92.88	35.23	12.26	34.15	100	264	P	H
	*	5720	96.97	-	-	83.63	35.23	12.26	34.15	100	264	A	H
													H
													H
													H
													H
	*	5720	109.89	-	-	96.55	35.23	12.26	34.15	205	292	P	V
	*	5720	100.47	-	-	87.13	35.23	12.26	34.15	205	292	A	V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												


15E band 3 - Straddle Channel
WIFI 802.11ac VHT20 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT20 CH 144 5720MHz		11440	44.56	-29.44	74	47.02	38.16	17.35	57.97	100	0	P	H
		17160	48.98	-25.02	74	41.89	42.27	21.32	56.5	100	0	P	H
													H
													H
		11440	46.39	-27.61	74	48.85	38.16	17.35	57.97	100	0	P	V
		17160	50.27	-23.73	74	43.18	42.27	21.32	56.5	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 3 - Straddle Channel

WIFI 802.11ac VHT40 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT40 CH 142 5710MHz	*	5720	102.7	-	-	89.36	35.23	12.26	34.15	100	264	P	H
	*	5720	93.46	-	-	80.12	35.23	12.26	34.15	100	264	A	H
													H
													H
													H
													H
	*	5720	106.37	-	-	93.03	35.23	12.26	34.15	205	292	P	V
	*	5720	96.4	-	-	83.06	35.23	12.26	34.15	205	292	A	V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



15E band 3 - Straddle Channel

WIFI 802.11ac VHT40 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT40 CH 142 5710MHz		11420	44.56	-29.44	74	47.12	38.15	17.31	58.02	100	0	P	H
		17130	50.38	-23.62	74	43.27	42.29	21.3	56.48	100	0	P	H
													H
													H
		11420	45.11	-28.89	74	47.67	38.15	17.31	58.02	100	0	P	V
		17130	50.56	-23.44	74	43.45	42.29	21.3	56.48	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												


15E band 3 - Straddle Channel
WIFI 802.11ac VHT80 (Band Edge @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 138 5690MHz	*	5690	98.4	-	-	85.13	35.21	12.18	34.12	100	264	P	H
	*	5690	88.16	-	-	74.89	35.21	12.18	34.12	100	264	A	H
													H
													H
													H
													H
	*	5690	101.18	-	-	87.91	35.21	12.18	34.12	205	297	P	V
	*	5690	91.88	-	-	78.61	35.21	12.18	34.12	205	297	A	V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												


15E band 3 - Straddle Channel
WIFI 802.11ac VHT80 (Harmonic @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 138 5690MHz		11380	45.12	-28.88	74	47.82	38.13	17.27	58.1	100	0	P	H
		17070	49.41	-24.59	74	42.23	42.35	21.27	56.44	100	0	P	H
													H
													H
		11380	44.73	-29.27	74	47.43	38.13	17.27	58.1	100	0	P	V
		17070	49.98	-24.02	74	42.8	42.35	21.27	56.44	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E Emission below 1GHz

WIFI 802.11n HT40 (LF @ 3m) (with PMA wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 LF		46.2	19.76	-20.24	40	39.39	9.8	1.77	31.2			P	H
		101.55	16.32	-27.18	43.5	34.62	10.44	2.38	31.12			P	H
		258.96	16.59	-29.41	46	30.79	13.84	2.96	31			P	H
		619.9	23.99	-22.01	46	30.27	20.2	4.08	30.56			P	H
		855.8	27.97	-18.03	46	30.41	23.25	4.7	30.39	252	340	P	H
		967.8	29.14	-24.86	54	29.75	24.78	4.94	30.33			P	H
													H
													H
													H
													H
													H
													H
		45.39	26.07	-13.93	40	45.35	10.15	1.77	31.2	180	54	P	V
		77.52	21.62	-18.38	40	43.86	6.9	2.06	31.2			P	V
		100.47	20.94	-22.56	43.5	39.24	10.42	2.38	31.1			P	V
		574.4	22.49	-23.51	46	29.52	19.66	4.01	30.7			P	V
		738.2	25.91	-20.09	46	29.74	22.16	4.41	30.4			P	V
		976.9	29.04	-24.96	54	29.45	24.94	4.94	30.29			P	V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



15E band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m) (with WPC wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 102 5510MHz		5469.2	62.79	-11.21	74	49.45	35.05	11.86	33.57	100	260	P	H
		5470	45.82	-8.18	54	32.48	35.05	11.86	33.57	100	260	A	H
	*	5510	98.1	-	-	84.82	35.1	11.92	33.74	100	260	P	H
	*	5510	88.81	-	-	75.53	35.1	11.92	33.74	100	260	A	H
		5761.48	56.83	-17.17	74	43.44	35.26	12.33	34.2	100	260	P	H
		5742.6	43.87	-10.13	54	30.47	35.24	12.33	34.17	100	260	A	H
		5469.36	69.07	-4.93	74	55.73	35.05	11.86	33.57	279	90	P	V
		5469.84	51.89	-2.11	54	38.55	35.05	11.86	33.57	279	90	A	V
	*	5510	103.2	-	-	89.92	35.1	11.92	33.74	279	90	P	V
	*	5510	93.8	-	-	80.52	35.1	11.92	33.74	279	90	A	V
		5749.96	56.92	-17.08	74	43.52	35.24	12.33	34.17	279	90	P	V
		5753.96	43.82	-10.18	54	30.4	35.26	12.33	34.17	279	90	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m) (with WPC wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 102 5510MHz		11020	43.33	-30.67	74	47.54	37.91	16.94	59.06	100	0	P	H
		16530	47.04	-26.96	74	41.43	41.47	20.91	56.77	100	0	P	H
													H
													H
		11020	44.84	-29.16	74	47.53	37.91	16.94	57.54	100	0	P	V
		16530	48.21	-25.79	74	41.81	41.47	20.91	55.98	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15E band 3 - 5470~5725MHz

15E Emission below 1GHz

WIFI 802.11n HT40 (LF @ 3m) (with WPC wireless charger)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 LF		45.39	19.76	-20.24	40	39.04	10.15	1.77	31.2	177	145	P	H
		79.14	15.15	-24.85	40	37.32	6.97	2.06	31.2			P	H
		100.47	16.19	-27.31	43.5	34.49	10.42	2.38	31.1			P	H
		449.8	19.74	-26.26	46	29.56	17.3	3.63	30.75			P	H
		705.3	25.56	-20.44	46	30.75	20.8	4.41	30.4			P	H
		982.5	29.69	-24.31	54	29.98	24.95	5.03	30.27			P	H
													H
													H
													H
													H
													H
													H
		45.93	26.56	-13.44	40	45.84	10.15	1.77	31.2	100	245	P	V
		77.25	20.66	-19.34	40	42.9	6.9	2.06	31.2			P	V
		98.04	21.32	-22.18	43.5	40.44	9.92	2.06	31.1			P	V
		607.3	23.59	-22.41	46	30.29	19.81	4.08	30.59			P	V
		815.2	27.01	-18.99	46	30.37	22.35	4.62	30.33			P	V
		911.1	27.89	-18.11	46	29.86	23.55	4.8	30.32			P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



15E band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m) (with adapter)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 102 5510MHz		5469.52	67.28	-6.72	74	53.94	35.05	11.86	33.57	100	68	P	H
		5470	51.05	-2.95	54	37.71	35.05	11.86	33.57	100	68	A	H
	*	5510	99.58	-	-	86.3	35.1	11.92	33.74	100	68	P	H
	*	5510	89.41	-	-	76.13	35.1	11.92	33.74	100	68	A	H
		5730.04	56.61	-17.39	74	43.27	35.23	12.26	34.15	100	68	P	H
		5744.12	44.04	-9.96	54	30.64	35.24	12.33	34.17	100	68	A	H
		5469.36	69.9	-4.1	74	56.56	35.05	11.86	33.57	284	93	P	V
		5470	53.35	-0.65	54	40.01	35.05	11.86	33.57	284	93	A	V
	*	5510	103.03	-	-	89.75	35.1	11.92	33.74	284	93	P	V
	*	5510	92.34	-	-	79.06	35.1	11.92	33.74	284	93	A	V
		5725.56	56.78	-17.22	74	43.44	35.23	12.26	34.15	284	93	P	V
		5740.04	44.18	-9.82	54	30.78	35.24	12.33	34.17	284	93	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												


15E band 3 - 5470~5725MHz
WIFI 802.11n HT40 (Harmonic @ 3m) (with adapter)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 102 5510MHz		11020	44.6	-29.4	74	48.81	37.91	16.94	59.06	100	0	P	H
		16530	47.2	-26.8	74	41.59	41.47	20.91	56.77	100	0	P	H
													H
													H
		11020	46.39	-27.61	74	50.6	37.91	16.94	59.06	100	0	P	V
		16530	48.29	-25.71	74	42.68	41.47	20.91	56.77	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

15E Emission below 1GHz

WIFI 802.11n HT40 (LF @ 3m) (with adapter)

[illegible]



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency per 15.209(c).
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.