



FCC RF Test Report

APPLICANT : Hewlett Packard Enterprise Company
EQUIPMENT : Wireless Access Point
BRAND NAME : aruba · Hewlett Packard Enterprise
MODEL NAME : APIN0207
FCC ID : Q9DAPIN0207
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 Apr. 27, 2016 and testing was completed on Feb. 13, 2017. 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.

TEL : 886-3-327-3456

FAX : 886-3-328-4978

FCC ID : Q9DAPIN0207

Page Number : 1 of 46

Report Issued Date : Jul. 07, 2017

Report Version : Rev. 01

Report Template No.: BU5-FR15EWLAC MA Version 1.4



TABLE OF CONTENTS

REVISION HISTORY	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant	5
1.2 Manufacturer	5
1.3 Product Feature of Equipment Under Test	5
1.4 Product Specification of Equipment Under Test	6
1.5 Modification of EUT	7
1.6 Specification of Accessory	8
1.7 Testing Location	8
1.8 Applicable Standards	9
1.9 Test Condition	9
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	10
2.1 Carrier Frequency and Channel	10
2.2 Test Mode	11
2.3 Connection Diagram of Test System	13
2.4 Support Unit used in test configuration and system	15
2.5 EUT Operation Test Setup	15
2.6 Measurement Results Explanation Example	16
3 TEST RESULT	17
3.1 26dB & 99% Occupied Bandwidth Measurement	17
3.2 Maximum Conducted Output Power Measurement	20
3.3 Power Spectral Density Measurement	24
3.4 Unwanted Emissions Measurement	28
3.5 AC Conducted Emission Measurement	34
3.6 Frequency Stability Measurement	38
3.7 Automatically Discontinue Transmission	39
3.8 Antenna Requirements	40
4 LIST OF MEASURING EQUIPMENT	43
5 UNCERTAINTY OF EVALUATION	46
APPENDIX A. CONDUCTED TEST RESULTS	
APPENDIX B. RADIATED SPURIOUS EMISSION	
APPENDIX C. RADIATED SPURIOUS EMISSION PLOTS	
APPENDIX D. DUTY CYCLE PLOTS	
APPENDIX E. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR671301E	Rev. 01	Initial issue of report	Jul. 07, 2017



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	$\leq 250\text{mW}$ or $11\text{dBm} + 10\log B$	Pass	-
3.3	15.407(a)	Power Spectral Density	$\leq 11\text{dBm/MHz}$	Pass	-
3.4	15.407(b)	Unwanted Emissions	$\leq -17, -27 \text{ dBm}$ (depend on band) &15.209(a)	Pass	Under limit 0.15 dB at 5350.080 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 13.50 dB at 0.166 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

Hewlett Packard Enterprise Company
3000 Hanover Street, Palo Alto, CA 94304

1.2 Manufacturer

Hewlett Packard Enterprise Company
3000 Hanover Street, Palo Alto, CA 94304

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Wireless Access Point
Brand Name	aruba 、 Hewlett Packard Enterprise
Model Name	APIN0207
FCC ID	Q9DAPIN0207
S/N	DX0000030 (for RF Conducted and Radiation) DX0000061 (for Conduction)
EUT supports Radios application	WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth v4.0 LE
SW Version	6.5.1.0 build 55848
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. This is a variant report by adding Band 2 and Band 3. All the test cases were performed on original report which can be referred to Sporton Report Number FR671301C. Based on the original report, the tests were verified.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz
Maximum Output Power to Antenna <Non-TXBF Modes>	<5260 MHz ~ 5320 MHz> MIMO <Ant. 1 + 2> 802.11a : 21.25 dBm / 0.1334 W 802.11n HT20 : 21.41 dBm / 0.1384 W 802.11n HT40 : 21.23 dBm / 0.1327 W 802.11ac VHT20: 21.39 dBm / 0.1377 W 802.11ac VHT40: 21.17 dBm / 0.1309 W 802.11ac VHT80: 17.86 dBm / 0.0611 W <5500 MHz ~ 5720 MHz> MIMO <Ant. 1 + 2> 802.11a : 20.22 dBm / 0.1052 W 802.11n HT20 : 21.21 dBm / 0.1321 W 802.11n HT40 : 21.33 dBm / 0.1358 W 802.11ac VHT20: 21.18 dBm / 0.1312 W 802.11ac VHT40: 21.32 dBm / 0.1355 W 802.11ac VHT80: 21.43 dBm / 0.1390 W
Maximum Output Power to Antenna <TXBF Modes>	<5260 MHz ~ 5320 MHz> MIMO <Ant. 1 + 2> 802.11n HT20 : 20.91 dBm / 0.1233 W 802.11n HT40 : 21.71 dBm / 0.1483 W 802.11ac VHT20: 20.86 dBm / 0.1219 W 802.11ac VHT40: 20.71 dBm / 0.1178 W 802.11ac VHT80: 12.96 dBm / 0.0198 W <5500 MHz ~ 5720 MHz> MIMO <Ant. 1 + 2> 802.11n HT20 : 20.23 dBm / 0.1054 W 802.11n HT40 : 20.91 dBm / 0.1233 W 802.11ac VHT20: 20.12 dBm / 0.1028 W 802.11ac VHT40: 20.61 dBm / 0.1151 W 802.11ac VHT80: 19.72 dBm / 0.0938 W
Maximum Output Power to Antenna for Straddle Channel <Non-TXBF Modes>	MIMO <Ant. 1 + 2> 802.11a : 21.09 dBm / 0.1285 W 802.11n HT20 : 21.46 dBm / 0.1400 W 802.11n HT40 : 21.46 dBm / 0.1400 W 802.11ac VHT20: 21.32 dBm / 0.1355 W 802.11ac VHT40: 21.39 dBm / 0.1377 W 802.11ac VHT80: 21.27 dBm / 0.1340 W
Maximum Output Power to Antenna for Straddle Channel <TXBF Modes>	MIMO <Ant. 1 + 2> 802.11n HT20 : 21.26 dBm / 0.1337 W 802.11n HT40 : 21.44 dBm / 0.1393 W 802.11ac VHT20: 21.00 dBm / 0.1259 W 802.11ac VHT40: 21.38 dBm / 0.1374 W 802.11ac VHT80: 21.23 dBm / 0.1327 W

Standards-related Product Specification			
99% Occupied Bandwidth <Non-TXBF Modes>	802.11a : 18.85 MHz 802.11n HT20 : 19.80 MHz 802.11n HT40 : 37.30 MHz 802.11ac VHT80 : 76.08 MHz		
99% Occupied Bandwidth <TXBF Modes>	802.11n HT20 : 19.15 MHz 802.11n HT40 : 36.90 MHz 802.11ac VHT80 : 75.84 MHz		
99% Occupied Bandwidth for Straddle Channel <Non-TXBF Modes>	802.11a : 18.00 MHz 802.11n HT20 : 19.35 MHz 802.11n HT40 : 37.30 MHz 802.11ac VHT80 : 76.08 MHz		
99% Occupied Bandwidth for Straddle Channel <TXBF Modes>	802.11n HT20 : 18.95 MHz 802.11n HT40 : 36.80 MHz 802.11ac VHT80 : 75.84 MHz		
Antenna Type / Gain	<5260 MHz ~ 5320 MHz> Ant. 1 : PIFA Antenna with gain 4.50 dBi Ant. 2 : PIFA Antenna with gain 4.50 dBi <5500 MHz ~ 5720 MHz > Ant. 1 : PIFA Antenna with gain 4.50 dBi Ant. 2 : PIFA Antenna with gain 4.50 dBi		
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)		
Antenna Function Description		Ant. 1	Ant. 2
	802.11 a/n/ac MIMO	V	V

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

1.5 Modification of EUT

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

1.6 Specification of Accessory

Specification of Accessory				
AC Adapter	Brand Name	CUI INC	Model Name	EMSA120300
	Power Rating	I/P: 100-240Vac, 1A, O/P: 12Vdc, 1.5A		
Power over Ethernet (POE) DC Power	Brand Name	PowerDsine	Model Name	PD-3501G/AC
	Power Rating	I/P: 100-240Vac, 0.43A, O/P: 57Vdc, 600mA		

1.7 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.		
	TH05-HY	CO05-HY	

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855		
Test Site No.	Sporton Site No.		
	03CH12-HY		

Note: The test site complies with ANSI C63.4 2014 requirement.



1.8 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 v01r04.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ FCC KDB 644545 D03 Guidance for IEEE 802.11ac New Rules v01
- ♦ ANSI C63.10-2013

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

1.9 Test Condition

Normal Voltage	DC 12V for Adapter DC 57V for POE
Normal Temperature	25°C
Extreme Temperature	0°C and 50°C

Note: The test temperature was between 0°C ~ 50°C by manufacturer requested.

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.

2.1 Carrier Frequency and Channel

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	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122 [#]	5610	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138 [#]	5690	144	5720
	142*	5710		

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel in "[#]" were 802.11ac VHT80.

2.2 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates as below table.

<Non-TXBF Modes>

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS8
802.11n HT40	MCS8
802.11ac VHT20	MCS0, Nss = 2
802.11ac VHT40	MCS0, Nss = 2
802.11ac VHT80	MCS0, Nss = 2

Note: EUT does not support 802.11ac Nss = 1 for non-TXBF modes.

<TXBF Modes>

Modulation	Data Rate
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0, Nss = 1
802.11ac VHT40	MCS0, Nss = 1
802.11ac VHT80	MCS0, Nss = 1

Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (5GHz) Link + LAN Link + AC Adapter Mode 2 : Bluetooth Link + WLAN (5GHz) Link + LAN Link + PoE Adapter
Remark: The worst case of conducted emission is mode 1; only the test data of it was reported.	



Ch. #		Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11a	802.11a
L	Low	52	100
M	Middle	60	116
H	High	64	140
Straddle		-	144

Ch. #		Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11n HT20	802.11n HT20
L	Low	52	100
M	Middle	60	116
H	High	64	140
Straddle		-	144

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

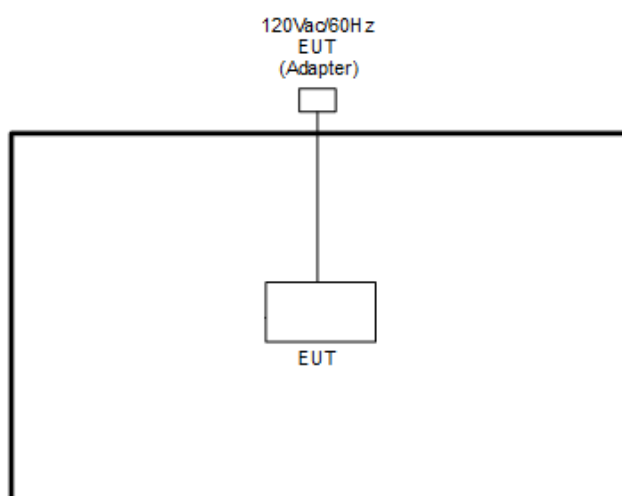
Ch. #		Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT20	802.11ac VHT20
L	Low	52	100
M	Middle	60	116
H	High	64	140
Straddle		-	144

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

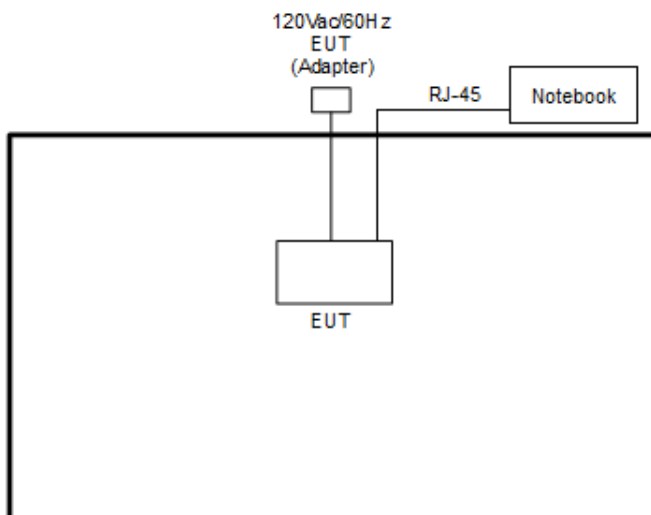
Ch. #		Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ac VHT80	802.11ac VHT80
L	Low	-	106
M	Middle	58	122
H	High	-	-
Straddle		-	138

2.3 Connection Diagram of Test System

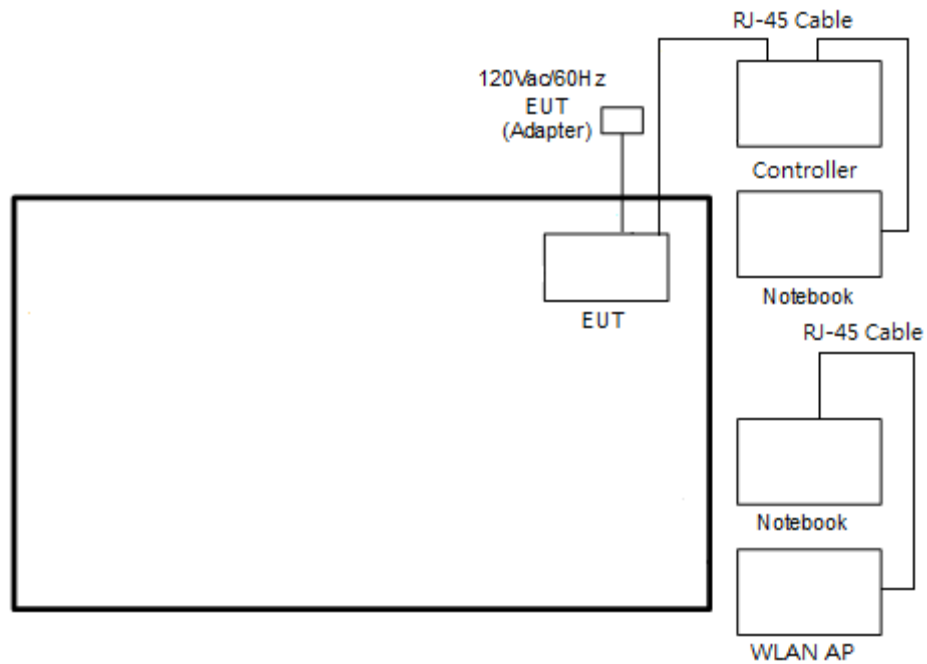
<WLAN Tx Non-TXBF Mode>



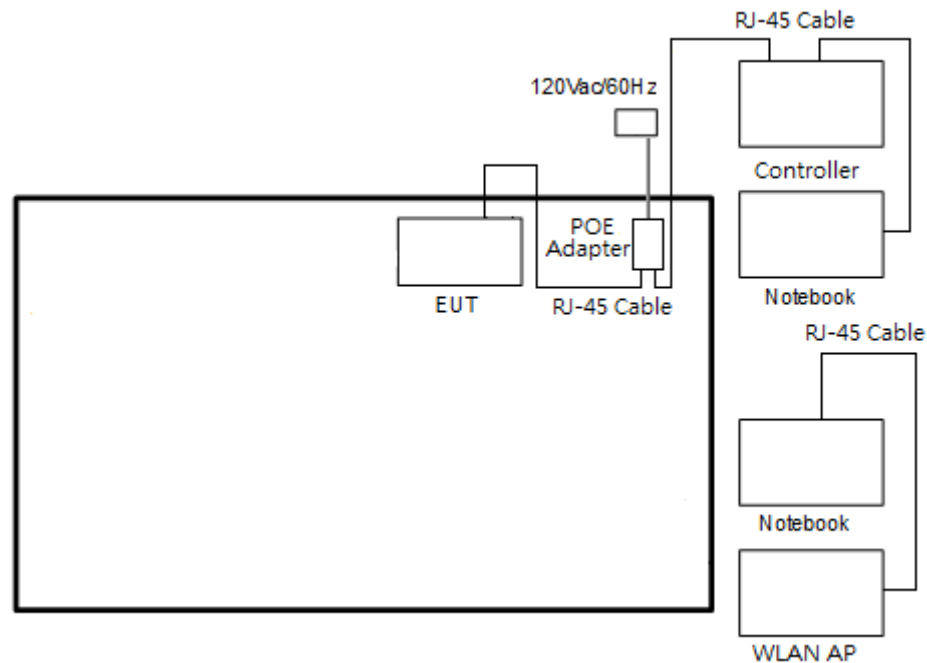
<WLAN Tx TXBF Mode>



<AC Conducted Emission with AC Adapter Mode>



<AC Conducted Emission with PoE Adapter Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	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
2.	Notebook	DELL	P20G	FCC DoC/ Contains FCC ID: QDS-BRCM1051	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	Lenovo	G480	N/A	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Notebook	Lenovo	E335	N/A	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	PoE	Microsemi	PD-3501G	FCC DoC	N/A	Unshielded, 1.2 m
6.	Controller	ARUBA	ARCN7030	Verification	N/A	Unshielded, 1.2 m
7.	WLAN AP	ARUBA	APIN0207	N/A	N/A	Unshielded, 1.6 m

2.5 EUT Operation Test Setup

For Non-TXBF modes, programmed RF utility, "MTool(Version: 2.0.3.2)" installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

For WLAN MIMO TXBF modes, the EUT was tested under normal operation and link to another EUT with power, modulation modes and data rates controlled by engineer mode command lines. The iperf software tool was used to make EUT continuous transmitting signals.



2.6 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.

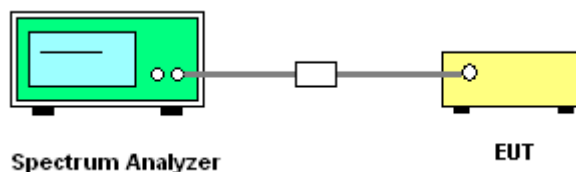
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

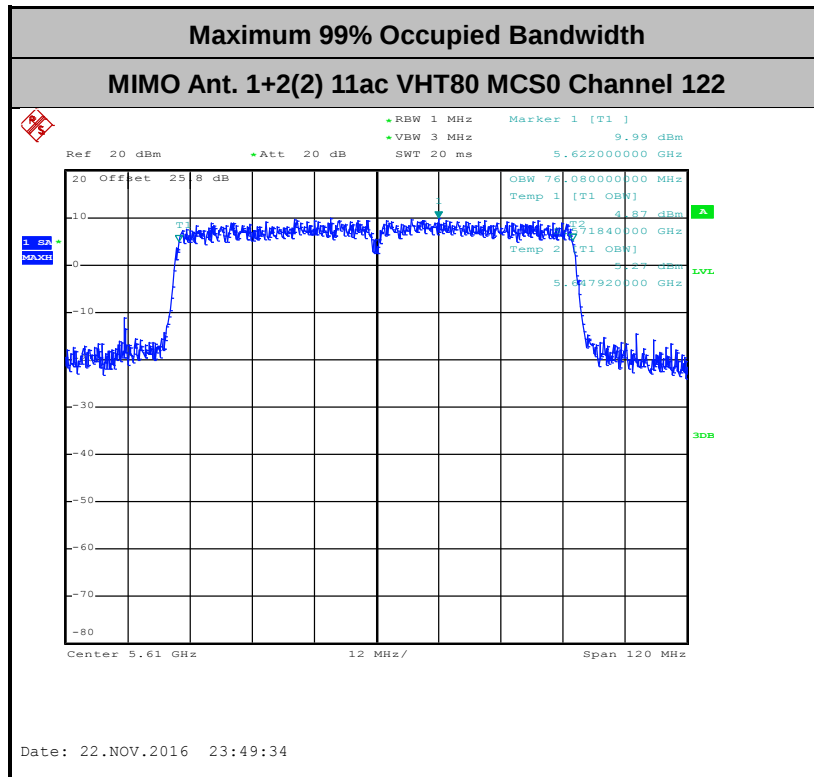
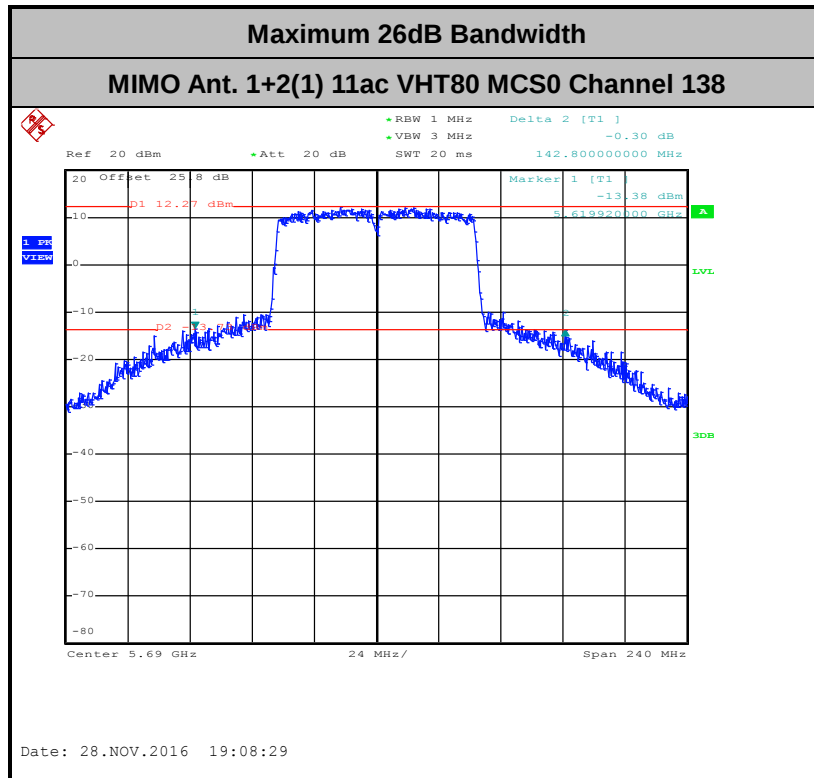
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB 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

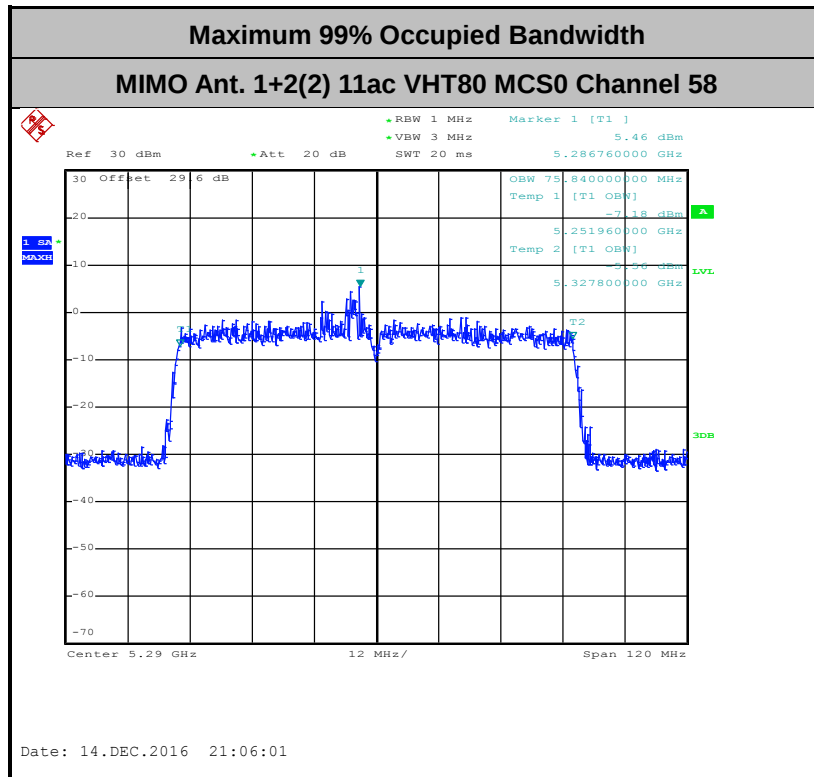
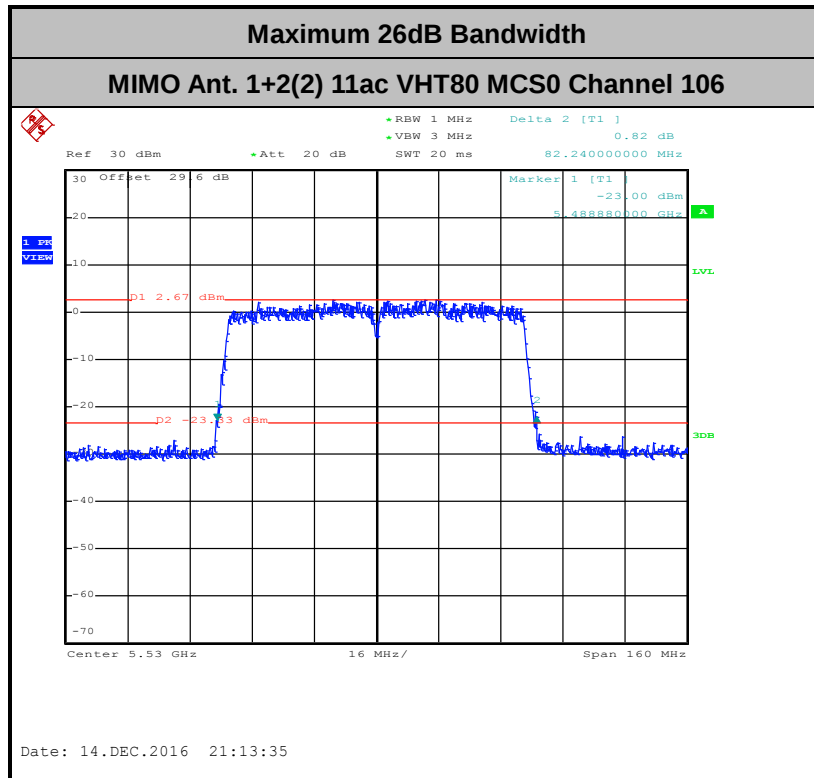


3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

<Non-TXBF Modes>


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

<TXBF Modes>


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

For the 5.25–5.725 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

Non-TXBF modes

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04 for Non-TXBF modes.

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.

TXBF modes

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04 for TXBF modes.

Method PM-G (Measurement using a gated RF average power meter):

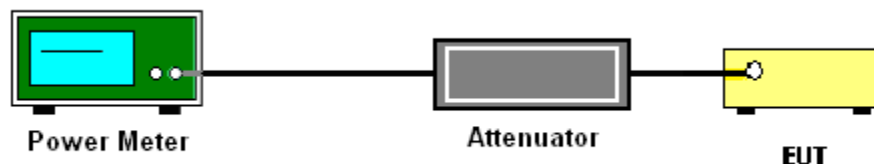
1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

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 v01r04.

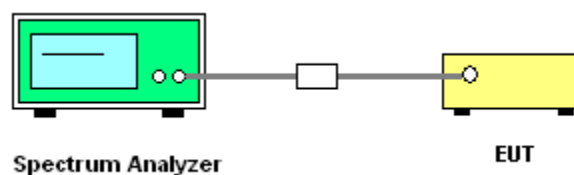
Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal using the instrument's band power measurement function.

3.2.4 Test Setup

For normal channel:



For straddle channel:

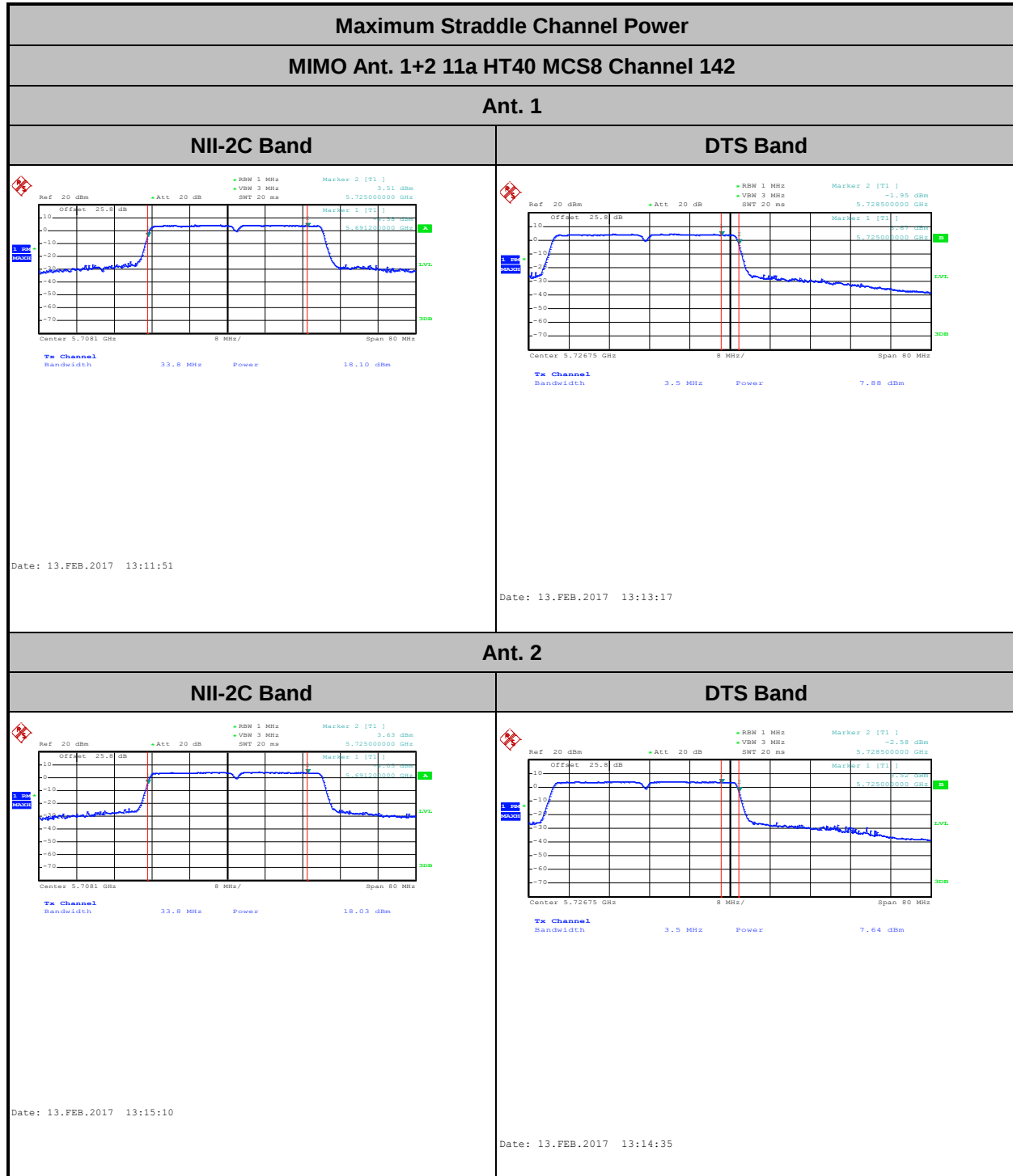




3.2.5 Test Result of Maximum Conducted Output Power

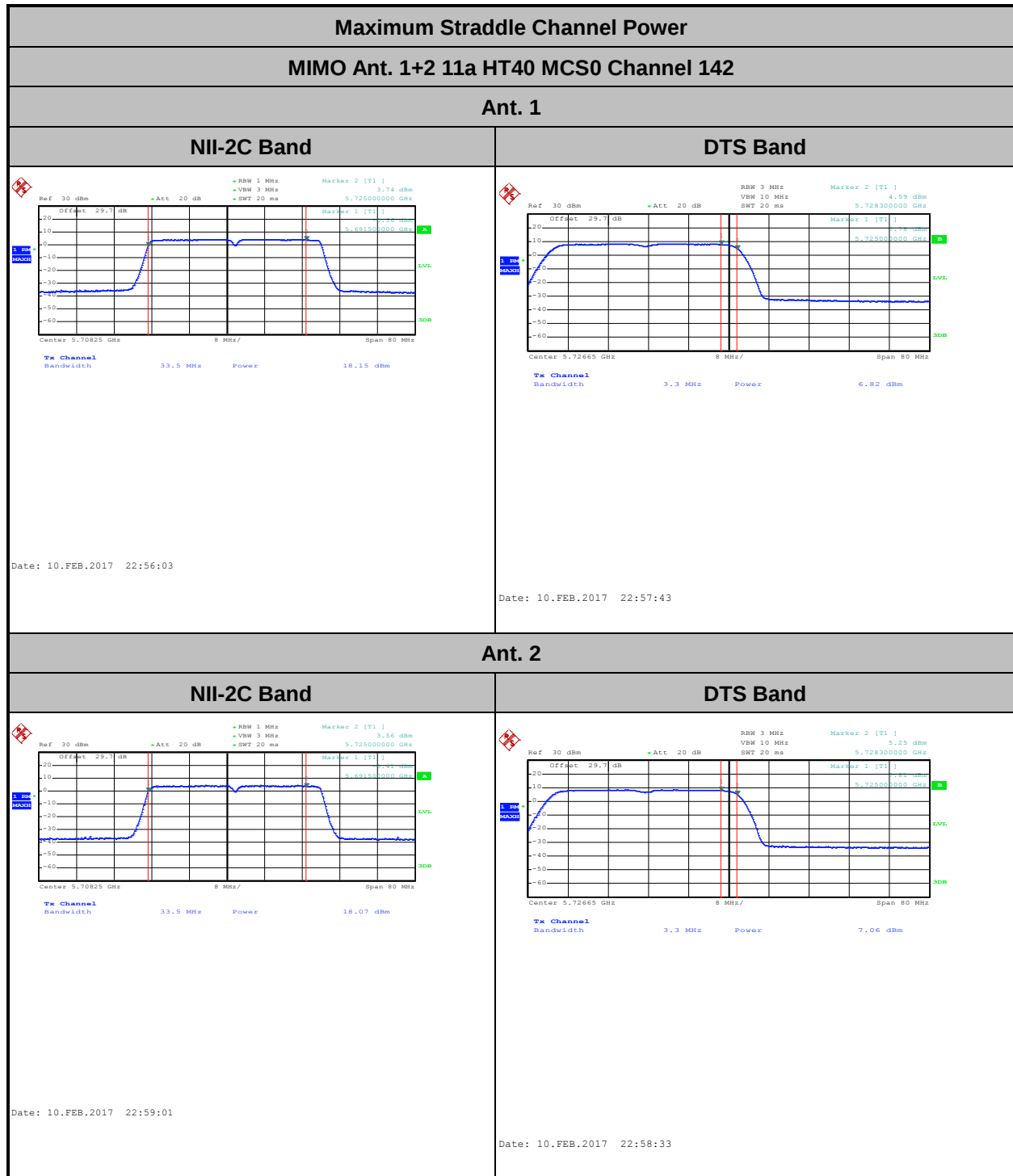
Please refer to Appendix A.

<Non-TXBF Modes>





<TXBF Modes>





3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

For the 5.25–5.725 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 v01r04.

Section F) Maximum power spectral density.

Non-TXBF modes

Method SA-2

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

- 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.

TXBF modes

Method SA-3

(power averaging (rms) detection with max hold):

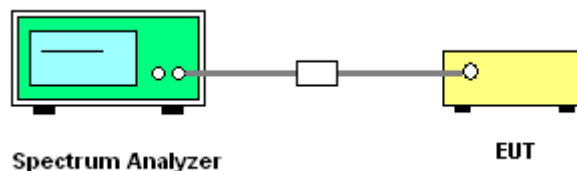
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW $\geq$ 3 MHz
- Number of points in sweep $\geq$ 2 Span / RBW.
- Sweep time $\leq$ (number of points in sweep) $\times$ T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
- Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

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

Method (a): 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

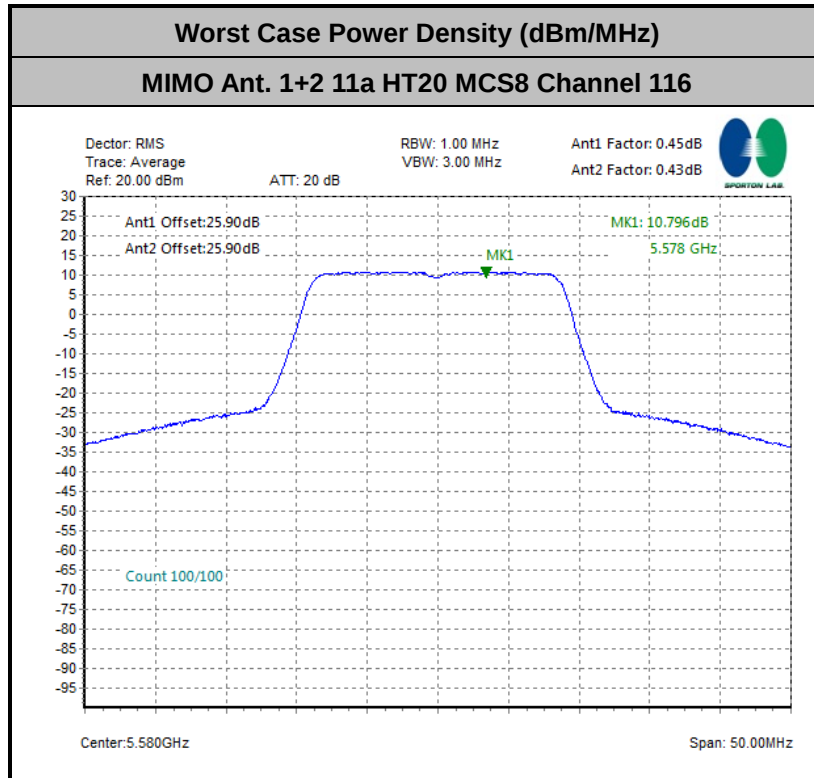


3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

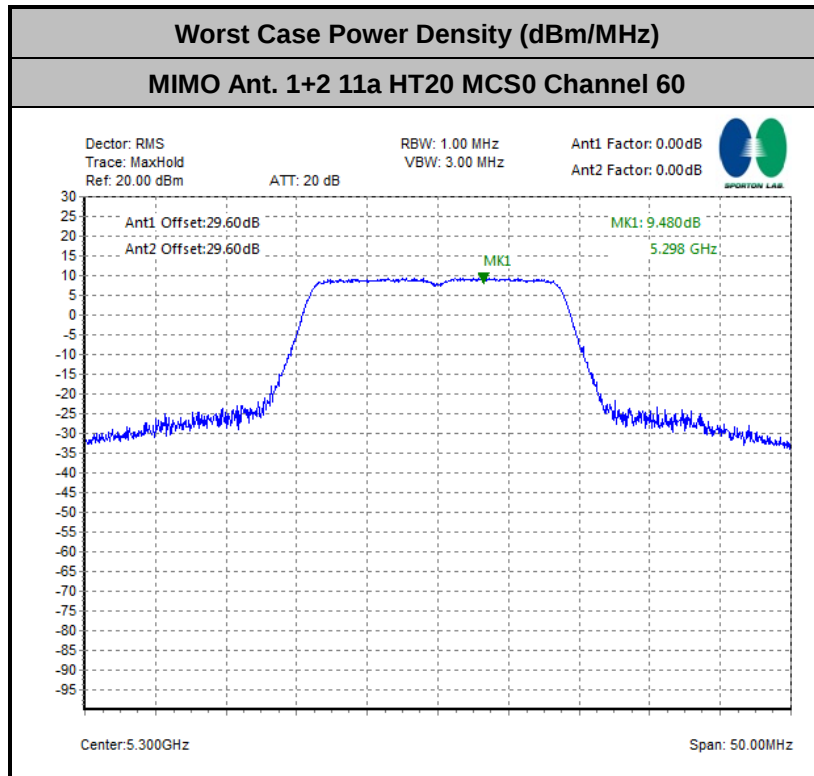


<Non-TXBF Modes>



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

<TXBF Modes>



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 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.

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

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

(3) KDB789033 D01 v01r04 G)2)c)

- (i) Section 15.407(b)(1) to (b)(3) specify the unwanted emission limits for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.³
- (ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.⁴

Note 3: An out-of-band emission that complies with both the average and peak limits of Section 15.209 is not required to satisfy the -27 dBm/MHz peak emission limit.

Note 4: Only devices with antenna gains of 10 dBi or less may be approved using the emission limits specified in Section 15.247(d) till March 2, 2018; all other devices operating in this band must use the mask specified in Section 15.407(b)(4)(i).

3.4.2 Measuring Instruments

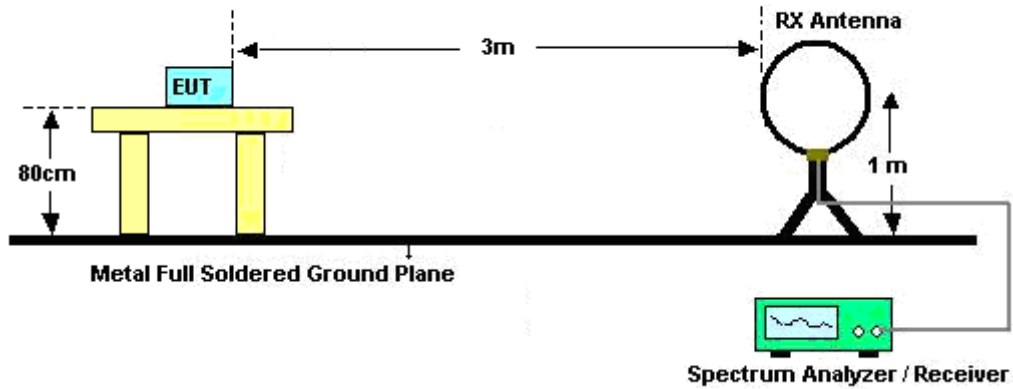
The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

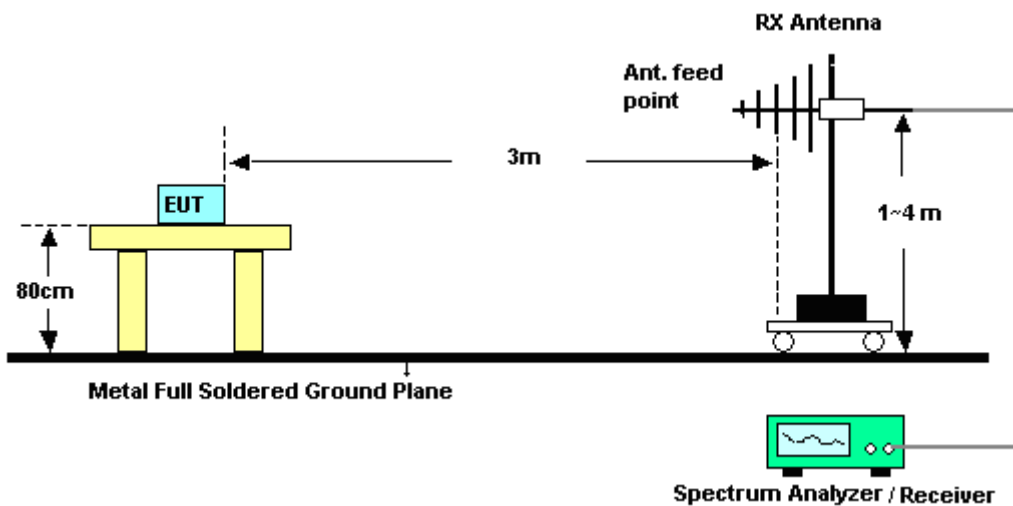
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.
Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak 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.
2. 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.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. 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.
5. 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.
6. 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.
7. 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

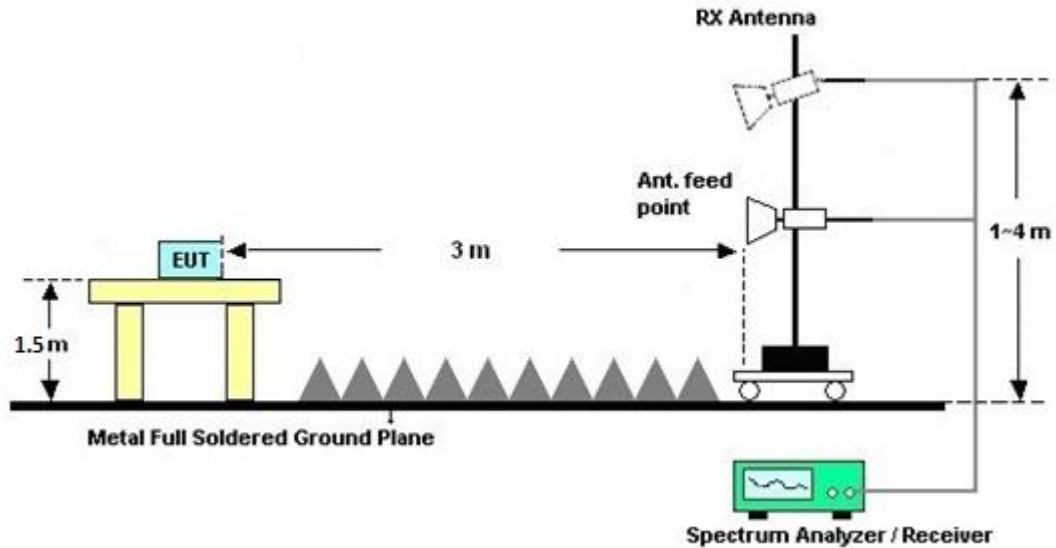


For radiated emissions from 30MHz to 1GHz

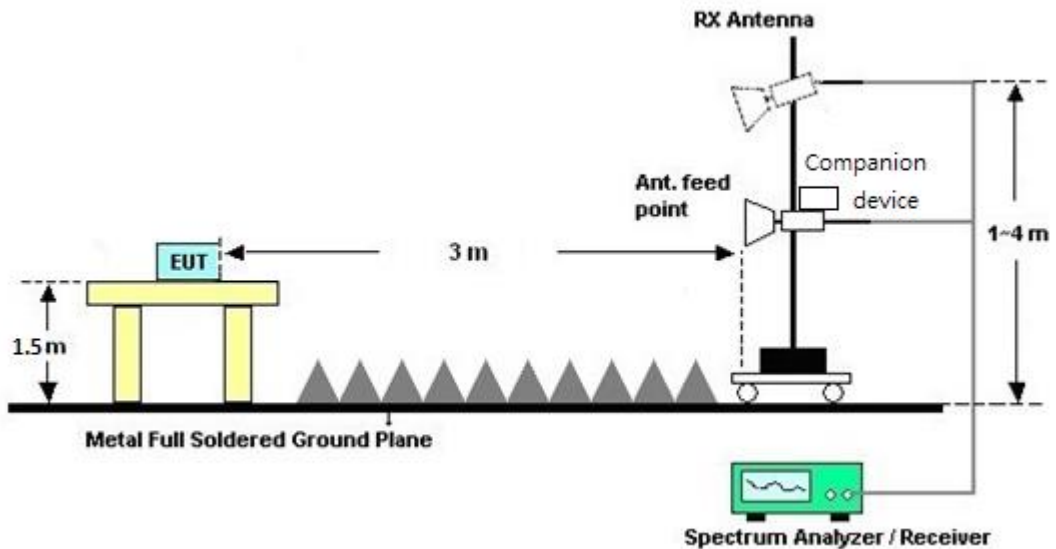


For radiated emissions above 1GHz

Non-TXBF mode



TXBF mode





3.4.5 Test Results of Radiated Spurious 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 Spurious at Band Edges

Please refer to Appendix B and C.

3.4.7 Duty Cycle

Please refer to Appendix D.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix B and C.

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.

For terminal test result, the testing follows FCC KDB 174176.

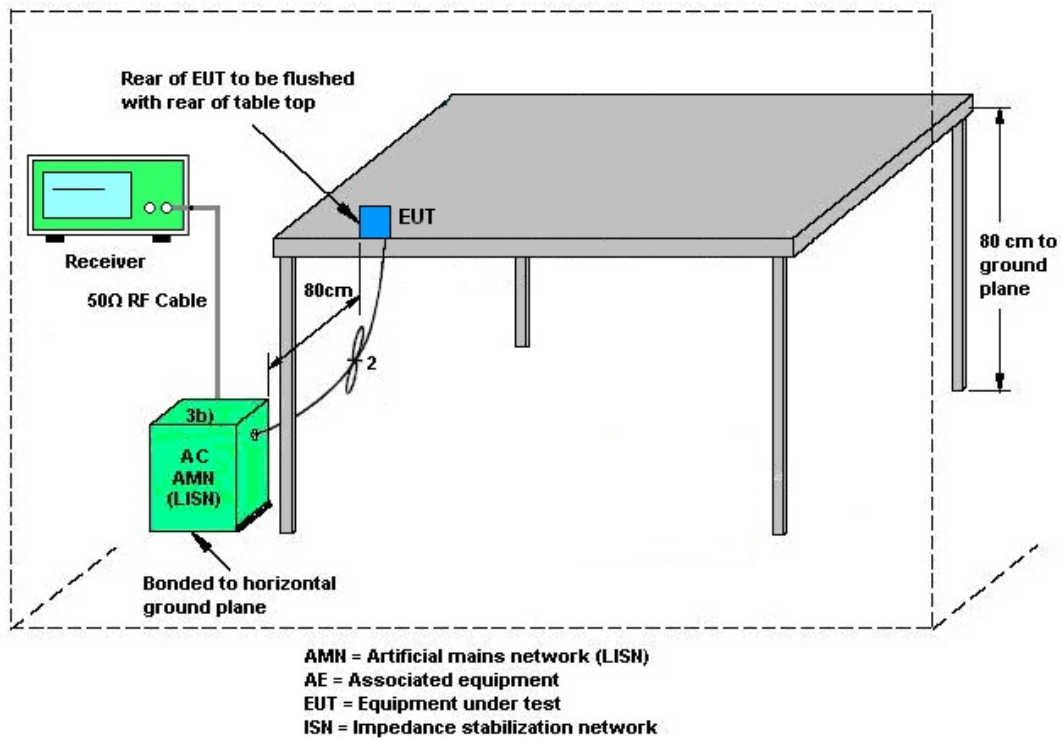
3.5.2 Measuring Instruments

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.

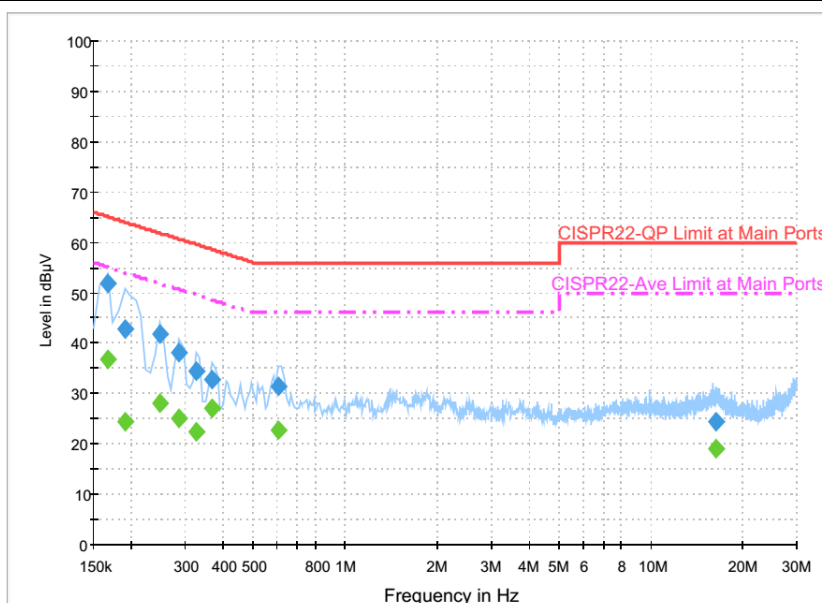
3.5.4 Test Setup





3.5.5 Test Result of AC Conducted Emission

Test Mode :	Mode 1	Temperature :	21~22°C
Test Engineer :	Derreck Chen	Relative Humidity :	51~52%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	Bluetooth Link + WLAN (5GHz) Link + LAN Link + AC Adapter		



Final Result : Quasi-Peak

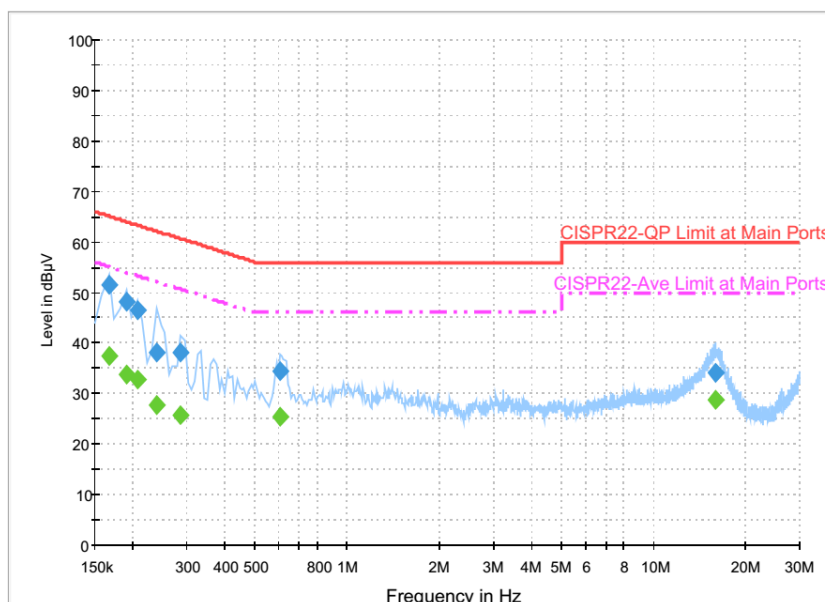
Frequency (MHz)	Quasi-Peak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.166000	51.7	Off	L1	19.6	13.5	65.2
0.190000	42.7	Off	L1	19.6	21.3	64.0
0.246000	41.8	Off	L1	19.6	20.1	61.9
0.286000	38.2	Off	L1	19.6	22.4	60.6
0.326000	34.4	Off	L1	19.6	25.2	59.6
0.366000	32.8	Off	L1	19.6	25.8	58.6
0.606000	31.6	Off	L1	19.6	24.4	56.0
16.390000	24.4	Off	L1	19.8	35.6	60.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.166000	36.6	Off	L1	19.6	18.6	55.2
0.190000	24.3	Off	L1	19.6	29.7	54.0
0.246000	28.1	Off	L1	19.6	23.8	51.9
0.286000	24.9	Off	L1	19.6	25.7	50.6
0.326000	22.3	Off	L1	19.6	27.3	49.6
0.366000	27.0	Off	L1	19.6	21.6	48.6
0.606000	22.8	Off	L1	19.6	23.2	46.0
16.390000	18.9	Off	L1	19.8	31.1	50.0



Test Mode :	Mode 1	Temperature :	21~22°C
Test Engineer :	Derreck Chen	Relative Humidity :	51~52%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	Bluetooth Link + WLAN (5GHz) Link + LAN Link + AC Adapter		

**Final Result : Quasi-Peak**

Frequency (MHz)	Quasi-Peak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	51.6	Off	N	19.6	13.6	65.2
0.190000	48.3	Off	N	19.6	15.7	64.0
0.206000	46.4	Off	N	19.6	17.0	63.4
0.238000	38.0	Off	N	19.6	24.2	62.2
0.286000	38.2	Off	N	19.6	22.4	60.6
0.606000	34.3	Off	N	19.6	21.7	56.0
15.926000	34.0	Off	N	19.9	26.0	60.0

Final Result : Average

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.166000	37.3	Off	N	19.6	17.9	55.2
0.190000	33.9	Off	N	19.6	20.1	54.0
0.206000	32.8	Off	N	19.6	20.6	53.4
0.238000	27.9	Off	N	19.6	24.3	52.2
0.286000	25.9	Off	N	19.6	24.7	50.6
0.606000	25.3	Off	N	19.6	20.7	46.0
15.926000	28.8	Off	N	19.9	21.2	50.0

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.

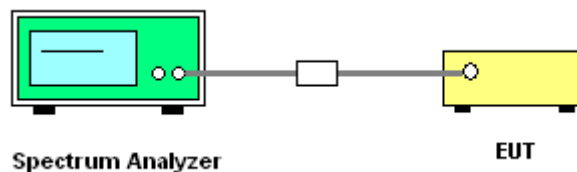
3.6.2 Measuring Instruments

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

Non-TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT 802.11a mode 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	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	Ant 1 (dBi)	Ant 2 (dBi)	(dBi)	(dBi)	(dB)	(dB)
Band II (a)	4.50	4.50	4.50	7.51	0.00	1.51
Band III (a)	4.50	4.50	4.50	7.51	0.00	1.51

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)

The EUT 802.11n mode does not support CDD Mode in MCS8~15.

The EUT 802.11ac mode does not support CDD Mode in nss>1.

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	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	Ant 1 (dBi)	Ant 2 (dBi)	(dBi)	(dBi)	(dB)	(dB)
Band II (n/ac)	4.50	4.50	4.50	4.50	0.00	0.00
Band III (n/ac)	4.50	4.50	4.50	4.50	0.00	0.00

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)

TXBF modes

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 beamforming for 802.11 n/ac modes.

The directional gain calculation is following F2)e)ii) of KDB 662911 D01 v02r01.

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	DG	Power	PSD
			for	for	Limit	Limit
	Ant 1	Ant 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band II	4.50	4.50	7.51	7.51	1.51	1.51
Band III	4.50	4.50	7.51	7.51	1.51	1.51

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
<Non-TXBF Mode for Conducted Test>								
Power Meter	Anritsu	ML2495A	0932001	300MHz~40GHz	Sep. 29, 2016	Nov. 02, 2016~ Feb. 13, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 29, 2016	Nov. 02, 2016~ Feb. 13, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jul. 17, 2016	Nov. 02, 2016~ Feb. 13, 2017	Jul. 16, 2017	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Sep. 01, 2016	Nov. 02, 2016~ Feb. 13, 2017	Aug. 31, 2017	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 11, 2016	Nov. 02, 2016~ Feb. 13, 2017	Oct. 10, 2017	Conducted (TH05-HY)
<TXBF Mode for Conducted Test>								
Power Sensor	DARE	RadiPower	15I00041SN O10	10MHz~6GHz	May 03, 2016	Dec. 02, 2016 Feb. 10, 2017	May 02, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jul. 17, 2016	Dec. 02, 2016 Feb. 10, 2017	Jul. 16, 2017	Conducted (TH05-HY)
<AC Conducted Emission>								
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Apr. 27, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 26, 2015	Apr. 27, 2016	Aug. 25, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	Apr. 27, 2016	Dec. 01, 2016	Conduction (CO05-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
<WLAN Tx Non-TXBF Mode>								
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Oct. 20, 2016	Nov. 05, 2016 ~ Nov. 07, 2016	Oct. 19, 2018	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	37059&01	30MHz~1GHz	Oct. 15, 2016	Nov. 05, 2016 ~ Nov. 07, 2016	Oct. 14, 2017	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Mar. 31, 2016	Nov. 05, 2016 ~ Nov. 07, 2016	Mar. 30, 2017	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917057 6	18GHz ~ 40GHz	Apr. 15, 2016	Nov. 05, 2016 ~ Nov. 07, 2016	Apr. 14, 2017	Radiation (03CH12-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	Dec. 21, 2015	Nov. 05, 2016 ~ Nov. 07, 2016	Dec. 20, 2016	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 21, 2016	Nov. 05, 2016 ~ Nov. 07, 2016	Mar. 20, 2017	Radiation (03CH12-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 20, 2015	Nov. 05, 2016 ~ Nov. 07, 2016	Nov. 19, 2016	Radiation (03CH12-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1815698	1GHz~18GHz	Dec. 14, 2015	Nov. 05, 2016 ~ Nov. 07, 2016	Dec. 13, 2016	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY53270148	1GHz~26.5GHz	Jan. 30, 2016	Nov. 05, 2016 ~ Nov. 07, 2016	Jan. 29, 2017	Radiation (03CH12-HY)
Preamplifier	MITEQ	TTA0204	1872107	2GHz~40GHz	Feb. 15, 2016	Nov. 05, 2016 ~ Nov. 07, 2016	Feb. 14, 2017	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Nov. 05, 2016 ~ Nov. 07, 2016	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Nov. 05, 2016 ~ Nov. 07, 2016	N/A	Radiation (03CH12-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
<WLAN Tx TXBF Mode>								
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Oct. 20, 2016	Dec. 08, 2016 ~ Dec. 10, 2016	Oct. 19, 2018	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	37059&01	30MHz~1GHz	Oct. 15, 2016	Dec. 08, 2016 ~ Dec. 10, 2016	Oct. 14, 2017	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1328	1GHz ~ 18GHz	Oct. 25, 2016	Dec. 08, 2016 ~ Dec. 10, 2016	Oct. 24, 2017	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz ~ 40GHz	Apr. 15, 2016	Dec. 08, 2016 ~ Dec. 10, 2016	Apr. 14, 2017	Radiation (03CH12-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	Dec. 21, 2015	Dec. 08, 2016 ~ Dec. 10, 2016	Dec. 20, 2016	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 21, 2016	Dec. 08, 2016 ~ Dec. 10, 2016	Mar. 20, 2017	Radiation (03CH12-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 10, 2016	Dec. 08, 2016 ~ Dec. 10, 2016	Nov. 09, 2017	Radiation (03CH12-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1815698	1GHz~18GHz	Dec. 14, 2015	Dec. 08, 2016 ~ Dec. 10, 2016	Dec. 13, 2016	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY53270148	1GHz~26.5GHz	Jan. 30, 2016	Dec. 08, 2016 ~ Dec. 10, 2016	Jan. 29, 2017	Radiation (03CH12-HY)
Preamplifier	MITEQ	TTA0204	1872107	2GHz~40GHz	Feb. 15, 2016	Dec. 08, 2016 ~ Dec. 10, 2016	Feb. 14, 2017	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Dec. 08, 2016 ~ Dec. 10, 2016	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Dec. 08, 2016 ~ Dec. 10, 2016	N/A	Radiation (03CH12-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
---	------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1
---	-----

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
---	-----

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7
---	-----



Appendix A. Conducted Test Results

<TXBF Off>

Test Engineer:	Kai Liao	Temperature:	21~25	°C
Test Date:	2016/11/02 ~ 2017/02/13	Relative Humidity:	51~54	%

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	18.85	18.10	35.46	28.80	23.58		29.58		23.98		
11a	6Mbps	2	60	5300	18.85	18.30	35.92	26.56	23.62		29.62		23.98		
11a	6Mbps	2	64	5320	18.40	18.15	26.08	22.88	23.59		29.59		23.98		
HT20	MCS8	2	52	5260	19.25	19.35	42.16	41.60	23.84		29.84		23.98		
HT20	MCS8	2	60	5300	19.80	19.50	44.96	45.12	23.90		29.90		23.98		
HT20	MCS8	2	64	5320	19.15	18.95	36.88	24.48	23.78		29.78		23.98		
HT40	MCS8	2	54	5270	37.30	36.90	83.68	80.48	23.98		30.00		23.98		
HT40	MCS8	2	62	5310	36.80	36.70	41.12	40.96	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	75.84	75.84	81.60	81.60	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)		EIRP Power Limit (dBm)	Pass/Fail	Power Setting
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2			
11a	6Mbps	2	52	5260	0.24	0.24	17.91	17.66	20.80	23.98		4.50		30	Pass	73
11a	6Mbps	2	60	5300	0.24	0.24	18.12	18.34	21.25	23.98		4.50		30	Pass	75
11a	6Mbps	2	64	5320	0.24	0.24	16.40	16.69	19.56	23.98		4.50		30	Pass	70
HT20	MCS8	2	52	5260	0.45	0.43	18.48	18.32	21.41	23.98		4.50		30	Pass	76
HT20	MCS8	2	60	5300	0.45	0.43	18.46	18.15	21.32	23.98		4.50		30	Pass	77
HT20	MCS8	2	64	5320	0.45	0.43	16.94	16.88	19.92	23.98		4.50		30	Pass	71
HT40	MCS8	2	54	5270	0.80	0.80	17.99	18.45	21.23	23.98		4.50		30	Pass	76
HT40	MCS8	2	62	5310	0.80	0.80	15.41	15.47	18.45	23.98		4.50		30	Pass	64
VHT20	MCS0	2	52	5260	0.16	0.13	18.46	18.31	21.39	23.98		4.50		30	Pass	76
VHT20	MCS0	2	60	5300	0.16	0.13	18.45	18.13	21.30	23.98		4.50		30	Pass	77
VHT20	MCS0	2	64	5320	0.16	0.13	16.62	17.13	19.89	23.98		4.50		30	Pass	71
VHT40	MCS0	2	54	5270	0.27	0.27	17.97	18.35	21.17	23.98		4.50		30	Pass	75
VHT40	MCS0	2	62	5310	0.27	0.27	15.38	15.46	18.43	23.98		4.50		30	Pass	64
VHT80	MCS0	2	58	5290	0.51	0.48	14.93	14.76	17.86	23.98		4.50		30	Pass	62

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	0.24	0.24			9.17	9.49	7.51			Pass	
11a	6Mbps	2	60	5300	0.24	0.24			9.40	9.49	7.51			Pass	
11a	6Mbps	2	64	5320	0.24	0.24			7.28	9.49	7.51			Pass	
HT20	MCS8	2	52	5260	0.45	0.43			10.27	11.00	4.50			Pass	
HT20	MCS8	2	60	5300	0.45	0.43			9.84	11.00	4.50			Pass	
HT20	MCS8	2	64	5320	0.45	0.43			7.39	11.00	4.50			Pass	
HT40	MCS8	2	54	5270	0.80	0.80			7.02	11.00	4.50			Pass	
HT40	MCS8	2	62	5310	0.80	0.80			3.11	11.00	4.50			Pass	
VHT80	MCS0	2	58	5290	0.51	0.48			-0.30	11.00	4.50			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	18.25	18.15	23.04	23.20	23.59		29.59		23.98		
11a	6Mbps	2	116	5580	18.30	18.25	22.96	23.12	23.61		29.61		23.98		
11a	6Mbps	2	140	5700	18.45	18.10	22.96	23.04	23.58		29.58		23.98		
HT20	MCS8	2	100	5500	19.00	18.85	23.20	34.08	23.75		29.75		23.98		
HT20	MCS8	2	116	5580	19.10	19.20	30.32	38.00	23.81		29.81		23.98		
HT20	MCS8	2	140	5700	19.05	18.90	23.20	23.20	23.76		29.76		23.98		
HT40	MCS8	2	102	5510	36.80	36.60	41.05	41.12	23.98		30.00		23.98		
HT40	MCS8	2	110	5550	37.00	37.20	67.20	85.92	23.98		30.00		23.98		
HT40	MCS8	2	134	5670	36.80	36.70	49.44	46.88	23.98		30.00		23.98		
VHT80	MCS0	2	106	5530	75.84	75.72	81.92	81.36	23.98		30.00		23.98		
VHT80	MCS0	2	122	5610	75.96	76.08	101.76	120.00	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)		EIRP Power Limit (dBm)	Pass/Fail	Power Setting
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2			
11a	6Mbps	2	100	5500	0.24	0.24	17.07	17.34	20.22	23.98		4.50		30	Pass	71
11a	6Mbps	2	116	5580	0.24	0.24	16.98	17.23	20.12	23.98		4.50		30	Pass	71
11a	6Mbps	2	140	5700	0.24	0.24	16.36	15.60	19.01	23.98		4.50		30	Pass	68
HT20	MCS8	2	100	5500	0.45	0.43	18.03	18.36	21.21	23.98		4.50		30	Pass	75
HT20	MCS8	2	116	5580	0.45	0.43	18.26	18.12	21.20	23.98		4.50		30	Pass	76
HT20	MCS8	2	140	5700	0.45	0.43	16.96	16.39	19.70	23.98		4.50		30	Pass	70
HT40	MCS8	2	102	5510	0.80	0.80	16.16	16.18	19.18	23.98		4.50		30	Pass	66
HT40	MCS8	2	110	5550	0.80	0.80	17.97	18.47	21.24	23.98		4.50		30	Pass	76
HT40	MCS8	2	134	5670	0.80	0.80	18.49	18.14	21.33	23.98		4.50		30	Pass	75
VHT20	MCS0	2	100	5500	0.16	0.13	18.01	18.29	21.16	23.98		4.50		30	Pass	75
VHT20	MCS0	2	116	5580	0.16	0.13	18.23	18.11	21.18	23.98		4.50		30	Pass	76
VHT20	MCS0	2	140	5700	0.16	0.13	16.94	16.16	19.57	23.98		4.50		30	Pass	70
VHT40	MCS0	2	102	5510	0.27	0.27	16.12	16.16	19.15	23.98		4.50		30	Pass	66
VHT40	MCS0	2	110	5550	0.27	0.27	17.92	18.46	21.21	23.98		4.50		30	Pass	75
VHT40	MCS0	2	134	5670	0.27	0.27	18.48	18.13	21.32	23.98		4.50		30	Pass	75
VHT80	MCS0	2	106	5530	0.51	0.48	15.00	14.71	17.87	23.98		4.50		30	Pass	62
VHT80	MCS0	2	122	5610	0.51	0.48	18.35	18.48	21.43	23.98		4.50		30	Pass	78

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	0.24	0.24			9.23	9.49		7.51			Pass
11a	6Mbps	2	116	5580	0.24	0.24			9.26	9.49		7.51			Pass
11a	6Mbps	2	140	5700	0.24	0.24			6.50	9.49		7.51			Pass
HT20	MCS8	2	100	5500	0.45	0.43			9.64	11.00		4.50			Pass
HT20	MCS8	2	116	5580	0.45	0.43			10.80	11.00		4.50			Pass
HT20	MCS8	2	140	5700	0.45	0.43			6.77	11.00		4.50			Pass
HT40	MCS8	2	102	5510	0.80	0.80			4.70	11.00		4.50			Pass
HT40	MCS8	2	110	5550	0.80	0.80			8.33	11.00		4.50			Pass
HT40	MCS8	2	134	5670	0.80	0.80			5.49	11.00		4.50			Pass
VHT80	MCS0	2	106	5530	0.51	0.48			0.41	11.00		4.50			Pass
VHT80	MCS0	2	122	5610	0.51	0.48			5.38	11.00		4.50			Pass

TEST RESULTS DATA
26dB and 99% OBW

Straddle Channel																
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Emission Bandwidth (MHz)		6 dB Emission Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)	
					Ant 1	Ant 2	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	18.00	18.00	29.61	26.36	16.32	16.32	-		-		-	
				NII-2C	14.10	14.10	21.49	18.72	13.26	13.24	22.49		28.49		23.72	
				NII-3	3.90	3.90	8.12	7.64	3.06	3.08	30.00		36.02		-	
HT20	MCS8	2	144	5720	19.35	19.35	43.68	44.48	17.56	17.58	-		-		-	
				NII-2C	14.75	14.75	27.40	27.24	13.86	13.90	22.69		28.69		23.98	
				NII-3	4.60	4.60	16.28	17.24	3.70	3.68	30.00		36.02		-	
HT40	MCS8	2	142	5710	37.30	37.30	93.12	81.92	36.16	36.32	-		-		-	
				NII-2C	33.80	33.80	58.52	56.60	33.20	33.28	23.98		30.00		23.98	
				NII-3	3.50	3.50	34.60	25.32	2.96	3.04	30.00		36.02		-	
VHT80	MCS0	2	138	5690	76.08	76.08	142.80	131.76	75.68	75.68	-		-		-	
				NII-2C	73.16	73.16	105.08	109.16	72.92	72.60	23.98		30.00		23.98	
				NII-3	2.92	2.92	37.72	22.60	2.76	3.08	30.00		36.02		-	

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	Power Setting
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2			
11a	6Mbps	2	144	5720	0.24	0.24	18.28	17.87	21.09	-		4.50			-	76
				NII-2C	0.24	0.24	17.24	16.85	20.06	23.72		4.50			Pass	
				NII-3	0.24	0.24	11.57	11.08	14.34	-		4.50			Pass	
HT20	MCS8	2	144	5720	0.45	0.43	18.48	18.41	21.46	-		4.50			-	75
				NII-2C	0.45	0.43	17.42	17.37	20.41	23.98		4.50			Pass	
				NII-3	0.45	0.43	11.82	11.71	14.78	-		4.50			Pass	
HT40	MCS8	2	142	5710	0.80	0.80	18.49	18.41	21.46	-		4.50			-	74
				NII-2C	0.80	0.80	18.10	18.03	21.08	23.98		4.50			Pass	
				NII-3	0.80	0.80	7.88	7.64	10.77	-		4.50			Pass	
VHT20	MCS0	2	144	5720	0.16	0.13	18.34	18.28	21.32	-		4.50			-	75
				NII-2C	0.16	0.13	17.28	17.21	20.26	23.98		4.50			Pass	
				NII-3	0.16	0.13	11.71	11.66	14.70	-		4.50			Pass	
VHT40	MCS0	2	142	5710	0.27	0.27	18.39	18.37	21.39	-		4.50			-	74
				NII-2C	0.27	0.27	17.98	17.98	20.99	23.98		4.50			Pass	
				NII-3	0.27	0.27	7.99	7.76	10.89	-		4.50			Pass	
VHT80	MCS0	2	138	5690	0.51	0.48	18.48	18.03	21.27	-		4.50			-	74
				NII-2C	0.51	0.48	18.33	17.89	21.13	23.98		4.50			Pass	
				NII-3	0.51	0.48	3.91	3.14	6.55	-		4.50			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	0.24	0.24			9.06	9.49	7.51			Pass	
				NII-3	0.24	0.24			9.06	28.49	7.51			Pass	
HT20	MCS8	2	144	NII-2C	0.45	0.43			9.39	11.00	4.50			Pass	
				NII-3	0.45	0.43			9.39	30.00	4.50			Pass	
HT40	MCS8	2	142	NII-2C	0.80	0.80			6.96	11.00	4.50			Pass	
				NII-3	0.80	0.80			6.96	30.00	4.50			Pass	
VHT80	MCS0	2	138	NII-2C	0.51	0.48			3.33	11.00	4.50			Pass	
				NII-3	0.51	0.48			3.33	30.00	4.50			Pass	

TEST RESULTS DATA
Frequency Stability

Band II										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	64	5320	5319.900	-0.100	-18.80	50	12	
11a	6Mbps	1	64	5320	5319.950	-0.050	-9.40	0	12	
11a	6Mbps	1	64	5320	5319.925	-0.075	-14.10	20	12.6	
11a	6Mbps	1	64	5320	5319.950	-0.050	-9.40	20	11.4	
11a	6Mbps	1	64	5320	5319.900	-0.100	-18.80	20	12	

Band III										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Center Frequency (MHz)	Frequency Deviation (MHz)	Frequency Stability (ppm)	Temperature (°C)	Voltage (V)	Note
11a	6Mbps	1	100	5500	5499.900	-0.100	-18.18	50	12	
11a	6Mbps	1	100	5500	5499.975	-0.025	-4.55	0	12	
11a	6Mbps	1	100	5500	5499.900	-0.100	-18.18	20	12.6	
11a	6Mbps	1	100	5500	5499.925	-0.075	-13.64	20	11.4	
11a	6Mbps	1	100	5500	5499.900	-0.100	-18.18	20	12	



<TXBF ON>

Test Engineer:	Kai Liao	Temperature:	21~25	°C
Test Date:	2016/12/02 ~ 2017/02/10	Relative Humidity:	51~54	%

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	
HT20	MCS0	2	52	5260	19.15	18.85	35.15	32.00	23.75		29.75		23.98		
HT20	MCS0	2	60	5300	19.00	18.75	36.65	30.05	23.73		29.73		23.98		
HT20	MCS0	2	64	5320	18.85	18.75	22.95	26.40	23.73		29.73		23.98		
HT40	MCS0	2	54	5270	36.90	36.60	46.80	41.49	23.98		30.00		23.98		
HT40	MCS0	2	62	5310	36.80	36.70	41.04	40.50	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	75.72	75.84	81.60	81.60	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail	Power Setting
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2			
HT20	MCS0	2	52	5260	17.70	17.90	20.81	22.47		7.51		30	Pass	69
HT20	MCS0	2	60	5300	17.80	18.00	20.91	22.47		7.51		30	Pass	71
HT20	MCS0	2	64	5320	16.80	16.80	19.81	22.47		7.51		30	Pass	68
HT40	MCS0	2	54	5270	18.60	18.80	21.71	22.47		7.51		30	Pass	72
HT40	MCS0	2	62	5310	16.10	16.00	19.06	22.47		7.51		30	Pass	64
VHT20	MCS0	2	52	5260	17.50	17.70	20.61	22.47		7.51		30	Pass	69
VHT20	MCS0	2	60	5300	17.80	17.90	20.86	22.47		7.51		30	Pass	71
VHT20	MCS0	2	64	5320	16.80	16.70	19.76	22.47		7.51		30	Pass	68
VHT40	MCS0	2	54	5270	17.60	17.80	20.71	22.47		7.51		30	Pass	68
VHT40	MCS0	2	62	5310	15.90	16.10	19.01	22.47		7.51		30	Pass	64
VHT80	MCS0	2	58	5290	10.00	9.90	12.96	22.47		7.51		30	Pass	38

TEST RESULTS DATA
Power Spectral Density

Band II												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HT20	MCS0	2	52	5260			9.44	9.49		7.51		Pass
HT20	MCS0	2	60	5300			9.48	9.49		7.51		Pass
HT20	MCS0	2	64	5320			9.46	9.49		7.51		Pass
HT40	MCS0	2	54	5270			9.36	9.49		7.51		Pass
HT40	MCS0	2	62	5310			7.83	9.49		7.51		Pass
VHT80	MCS0	2	58	5290			2.01	9.49		7.51		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	
HT20	MCS0	2	100	5500	18.75	18.75	23.50	23.00	23.73		29.73		23.98		
HT20	MCS0	2	116	5580	18.75	18.90	23.00	22.80	23.73		29.73		23.98		
HT20	MCS0	2	140	5700	18.90	18.95	22.80	23.00	23.76		29.76		23.98		
HT40	MCS0	2	102	5510	36.70	36.50	41.04	40.32	23.98		30.00		23.98		
HT40	MCS0	2	110	5550	36.70	36.80	40.68	40.86	23.98		30.00		23.98		
HT40	MCS0	2	134	5670	36.80	36.60	41.40	39.96	23.98		30.00		23.98		
VHT80	MCS0	2	106	5530	75.48	75.72	81.76	82.24	23.98		30.00		23.98		
VHT80	MCS0	2	122	5610	75.72	75.48	81.92	81.60	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band III														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail	Power Setting
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2			
HT20	MCS0	2	100	5500	16.00	16.50	19.27	22.47		7.51		30	Pass	65
HT20	MCS0	2	116	5580	16.40	16.00	19.21	22.47		7.51		30	Pass	65
HT20	MCS0	2	140	5700	17.60	16.80	20.23	22.47		7.51		30	Pass	69
HT40	MCS0	2	102	5510	16.20	16.50	19.36	22.47		7.51		30	Pass	66
HT40	MCS0	2	110	5550	17.00	17.00	20.01	22.47		7.51		30	Pass	68
HT40	MCS0	2	134	5670	18.10	17.70	20.91	22.47		7.51		30	Pass	71
VHT20	MCS0	2	100	5500	16.00	16.40	19.21	22.47		7.51		30	Pass	65
VHT20	MCS0	2	116	5580	16.30	16.10	19.21	22.47		7.51		30	Pass	65
VHT20	MCS0	2	140	5700	17.40	16.80	20.12	22.47		7.51		30	Pass	69
VHT40	MCS0	2	102	5510	15.90	16.60	19.27	22.47		7.51		30	Pass	65
VHT40	MCS0	2	110	5550	16.70	16.70	19.71	22.47		7.51		30	Pass	66
VHT40	MCS0	2	134	5670	17.70	17.50	20.61	22.47		7.51		30	Pass	69
VHT80	MCS0	2	106	5530	11.60	12.10	14.87	22.47		7.51		30	Pass	45
VHT80	MCS0	2	122	5610	17.00	16.40	19.72	22.47		7.51		30	Pass	65

TEST RESULTS DATA
Power Spectral Density

Band III												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HT20	MCS0	2	100	5500			9.13	9.49		7.51		Pass
HT20	MCS0	2	116	5580			9.04	9.49		7.51		Pass
HT20	MCS0	2	140	5700			9.30	9.49		7.51		Pass
HT40	MCS0	2	102	5510			7.69	9.49		7.51		Pass
HT40	MCS0	2	110	5550			9.36	9.49		7.51		Pass
HT40	MCS0	2	134	5670			9.14	9.49		7.51		Pass
VHT80	MCS0	2	106	5530			3.28	9.49		7.51		Pass
VHT80	MCS0	2	122	5610			9.31	9.49		7.51		Pass

TEST RESULTS DATA
26dB and 99% OBW

Straddle Channel																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Emission Bandwidth (MHz)		6 dB Emission Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
HT20	MCS0	2	144	5720	18.95	18.95	23.20	22.80	17.56	17.58	-	-	-	-	-	-
				NII-2C	14.6	14.6	16.8	16.5	13.88	13.9	22.64	28.64	23.17	-	-	-
				NII-3	4.35	4.35	6.4	6.3	3.68	3.68	30.00	36.02	-	-	-	-
HT40	MCS0	2	142	5710	36.80	36.80	40.77	40.95	36.32	36.32	-	-	-	-	-	-
				NII-2C	33.5	33.5	35.7	35.61	33.28	33.28	23.98	30.00	23.98	-	-	-
				NII-3	3.3	3.3	5.07	5.34	3.04	3.04	30.00	36.02	-	-	-	-
VHT80	MCS0	2	138	5690	75.84	75.84	82.24	81.60	76.00	76.32	-	-	-	-	-	-
				NII-2C	73.04	73.04	76.12	75.96	72.92	73.24	23.98	30.00	23.98	-	-	-
				NII-3	2.8	2.8	6.12	5.64	3.08	3.08	30.00	36.02	-	-	-	-

TEST RESULTS DATA
Average Power Table

FCC Straddle Channel														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail	Power Setting
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2			
HT20	MCS0	2	144	5720	18.43	18.06	21.26	-		7.51			-	65
				NII-2C	17.37	17.05	20.22	21.66		7.51			Pass	
				NII-3	11.79	11.23	14.53	-		7.51			Pass	
HT40	MCS0	2	142	5710	18.46	18.40	21.44	-		7.51			-	66
				NII-2C	18.15	18.07	21.12	22.47		7.51			Pass	
				NII-3	6.82	7.06	9.95	-		7.51			Pass	
VHT20	MCS0	2	144	5720	18.22	17.75	21.00	-		7.51			-	61
				NII-2C	17.18	16.70	19.96	21.70		7.51			Pass	
				NII-3	11.49	11.05	14.29	-		7.51			Pass	
VHT40	MCS0	2	142	5710	18.40	18.34	21.38	-		7.51			-	64
				NII-2C	18.06	18.00	21.04	22.47		7.51			Pass	
				NII-3	7.16	7.05	10.12	-		7.51			Pass	
VHT80	MCS0	2	138	5690	18.43	17.99	21.23	-		7.51			-	65
				NII-2C	18.31	17.85	21.10	22.47		7.51			Pass	
				NII-3	2.89	2.85	5.88	-		7.51			Pass	

TEST RESULTS DATA
Power Spectral Density

Straddle Channel													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HT20	MCS0	2	144	NII-2C			9.25	9.49	7.51			Pass	
				NII-3			9.25	28.49	7.51			Pass	
HT40	MCS0	2	142	NII-2C			5.98	9.49	7.51			Pass	
				NII-3			5.98	28.49	7.51			Pass	
VHT80	MCS0	2	138	NII-2C			2.70	9.49	7.51			Pass	
				NII-3			2.70	28.49	7.51			Pass	



Appendix B. Radiated Spurious Emission

Test Engineer :	Karl Hou, Peter Liao, and Nick Yu	Temperature :	23~25°C
		Relative Humidity :	52~55%

<Non-TXBF Modes>

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5144.56	59.82	-14.18	74	47.84	31.72	11.21	30.95	259	176	P	H
		5047.58	49.21	-4.79	54	37.21	31.64	11.31	30.95	259	176	A	H
	*	5260	115.02	-	-	102.9	31.81	11.26	30.95	259	176	P	H
	*	5260	107.22	-	-	95.1	31.81	11.26	30.95	259	176	A	H
		5353.44	60.93	-13.07	74	48.48	31.88	11.52	30.95	259	176	P	H
		5350.32	49.16	-4.84	54	36.71	31.88	11.52	30.95	259	176	A	H
		5137.54	59.43	-14.57	74	47.43	31.71	11.24	30.95	360	223	P	V
		5048.62	48.51	-5.49	54	36.51	31.64	11.31	30.95	360	223	A	V
	*	5260	113.56	-	-	101.44	31.81	11.26	30.95	360	223	P	V
	*	5260	106.02	-	-	93.9	31.81	11.26	30.95	360	223	A	V
		5414.4	60.09	-13.91	74	47.51	31.93	11.6	30.95	360	223	P	V
		5352.96	49.15	-4.85	54	36.7	31.88	11.52	30.95	360	223	A	V



802.11a CH 60 5300MHz		5036.92	59.43	-14.57	74	47.44	31.63	11.31	30.95	244	167	P	H
		5086.58	49.19	-4.81	54	37.2	31.67	11.27	30.95	244	167	A	H
	*	5300	116.8	-	-	104.56	31.84	11.35	30.95	244	167	P	H
	*	5300	107.39	-	-	95.15	31.84	11.35	30.95	244	167	A	H
		5371.92	62.27	-11.73	74	49.81	31.89	11.52	30.95	244	167	P	H
		5352.24	52.02	-1.98	54	39.57	31.88	11.52	30.95	244	167	A	H
		5086.58	59.6	-14.4	74	47.61	31.67	11.27	30.95	321	217	P	V
		5086.84	48.35	-5.65	54	36.36	31.67	11.27	30.95	321	217	A	V
	*	5300	116.89	-	-	104.05	32.44	11.35	30.95	321	217	P	V
	*	5300	107.02	-	-	94.18	32.44	11.35	30.95	321	217	A	V
		5350.08	63.38	-10.62	74	50.93	31.88	11.52	30.95	321	217	P	V
		5350.8	51.25	-2.75	54	38.8	31.88	11.52	30.95	321	217	A	V
802.11a CH 64 5320MHz	*	5320	115.72	-	-	103.39	31.85	11.43	30.95	237	166	P	H
	*	5320	106.66	-	-	94.33	31.85	11.43	30.95	237	166	A	H
		5350.24	65.19	-8.81	74	52.74	31.88	11.52	30.95	237	166	P	H
		5350.4	53.71	-0.29	54	41.26	31.88	11.52	30.95	237	166	A	H
													H
													H
	*	5320	115.51	-	-	103.18	31.85	11.43	30.95	337	219	P	V
	*	5320	105.86	-	-	93.53	31.85	11.43	30.95	337	219	A	V
		5354.4	63.85	-10.15	74	51.4	31.88	11.52	30.95	337	219	P	V
		5350.08	52.65	-1.35	54	40.2	31.88	11.52	30.95	337	219	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	49.69	-24.31	74	49.67	39.91	17.31	57.2	100	0	P	H
		15780	44.24	-29.76	74	42.81	37.69	21.79	58.05	100	0	P	H
													H
													H
		10520	48.64	-25.36	74	48.62	39.91	17.31	57.2	100	0	P	V
		15780	44.25	-29.75	74	42.82	37.69	21.79	58.05	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	49.85	-24.15	74	49.65	39.98	17.4	57.18	100	0	P	H
		15900	43.22	-30.78	74	41.72	37.43	21.88	57.81	100	0	P	H
													H
													H
		10600	49.72	-24.28	74	49.52	39.98	17.4	57.18	100	0	P	V
		15900	42.17	-31.83	74	40.67	37.43	21.88	57.81	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	48.33	-25.67	74	48.04	40.01	17.45	57.17	100	0	P	H
		15960	44.91	-29.09	74	43.36	37.28	21.94	57.67	100	0	P	H
													H
													H
		10640	48.05	-25.95	74	47.76	40.01	17.45	57.17	100	0	P	V
		15960	43.26	-30.74	74	41.71	37.28	21.94	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.												



Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		5143.78	60.17	-13.83	74	48.19	31.72	11.21	30.95	260	174	P	H
		5146.9	50.05	-3.95	54	38.07	31.72	11.21	30.95	260	174	A	H
	*	5260	115.28	-	-	103.16	31.81	11.26	30.95	260	174	P	H
	*	5260	107.1	-	-	94.98	31.81	11.26	30.95	260	174	A	H
		5359.44	61.85	-12.15	74	49.4	31.88	11.52	30.95	260	174	P	H
		5351.04	50.36	-3.64	54	37.91	31.88	11.52	30.95	260	174	A	H
		5132.34	59.7	-14.3	74	47.7	31.71	11.24	30.95	328	221	P	V
		5049.4	49.48	-4.52	54	37.48	31.64	11.31	30.95	328	221	A	V
	*	5260	116.07	-	-	103.95	31.81	11.26	30.95	328	221	P	V
	*	5260	106.92	-	-	94.8	31.81	11.26	30.95	328	221	A	V
		5369.04	60.94	-13.06	74	48.48	31.89	11.52	30.95	328	221	P	V
		5357.28	50.53	-3.47	54	38.08	31.88	11.52	30.95	328	221	A	V
802.11n HT20 CH 60 5300MHz		5111.54	59.37	-14.63	74	47.39	31.69	11.24	30.95	247	168	P	H
		5087.1	49.69	-4.31	54	37.7	31.67	11.27	30.95	247	168	A	H
	*	5300	116.79	-	-	104.55	31.84	11.35	30.95	247	168	P	H
	*	5300	106.88	-	-	94.64	31.84	11.35	30.95	247	168	A	H
		5350.8	62.99	-11.01	74	50.54	31.88	11.52	30.95	247	168	P	H
		5352.48	53.83	-0.17	54	41.38	31.88	11.52	30.95	247	168	A	H
		5078.26	59.99	-14.01	74	48	31.67	11.27	30.95	322	223	P	V
		5087.36	49.32	-4.68	54	37.33	31.67	11.27	30.95	322	223	A	V
	*	5300	116.84	-	-	104.6	31.84	11.35	30.95	322	223	P	V
	*	5300	106.81	-	-	94.57	31.84	11.35	30.95	322	223	A	V
		5352.24	62.86	-11.14	74	50.41	31.88	11.52	30.95	322	223	P	V
		5351.28	53.1	-0.9	54	40.65	31.88	11.52	30.95	322	223	A	V



802.11n HT20 CH 64 5320MHz	*	5320	114.47	-	-	102.14	31.85	11.43	30.95	225	172	P	H
	*	5320	104.32	-	-	91.99	31.85	11.43	30.95	225	172	A	H
		5351.2	65.96	-8.04	74	53.51	31.88	11.52	30.95	225	172	P	H
		5350.08	53.85	-0.15	54	41.4	31.88	11.52	30.95	225	172	A	H
													H
													H
	*	5320	114.58	-	-	102.25	31.85	11.43	30.95	338	220	P	V
	*	5320	104.27	-	-	91.94	31.85	11.43	30.95	338	220	A	V
		5350.08	65.87	-8.13	74	53.42	31.88	11.52	30.95	338	220	P	V
		5350.24	53.27	-0.73	54	40.82	31.88	11.52	30.95	338	220	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		10520	49.14	-24.86	74	49.12	39.91	17.31	57.2	100	0	P	H
		15780	44.75	-29.25	74	43.32	37.69	21.79	58.05	100	0	P	H
													H
													H
		10520	49.34	-24.66	74	49.32	39.91	17.31	57.2	100	0	P	V
		15780	44.22	-29.78	74	42.79	37.69	21.79	58.05	100	0	P	V
													V
													V
802.11n HT20 CH 60 5300MHz		10600	49.77	-24.23	74	49.57	39.98	17.4	57.18	100	0	P	H
		15900	42.68	-31.32	74	41.18	37.43	21.88	57.81	100	0	P	H
													H
													H
		10600	48.99	-25.01	74	48.79	39.98	17.4	57.18	100	0	P	V
		15900	42.29	-31.71	74	40.79	37.43	21.88	57.81	100	0	P	V
													V
													V
802.11n HT20 CH 64 5320MHz		10640	47.76	-26.24	74	47.47	40.01	17.45	57.17	100	0	P	H
		15960	43.86	-30.14	74	42.31	37.28	21.94	57.67	100	0	P	H
													H
													H
		10640	48.58	-25.42	74	48.29	40.01	17.45	57.17	100	0	P	V
		15960	43.22	-30.78	74	41.67	37.28	21.94	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.												



Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5143.26	61.41	-12.59	74	49.43	31.72	11.21	30.95	254	176	P	H
		5146.9	51.07	-2.93	54	39.09	31.72	11.21	30.95	254	176	A	H
	*	5270	113.4	-	-	101.19	31.81	11.35	30.95	254	176	P	H
	*	5270	103.6	-	-	91.39	31.81	11.35	30.95	254	176	A	H
		5351.04	65.89	-8.11	74	53.44	31.88	11.52	30.95	254	176	P	H
		5351.52	53.71	-0.29	54	41.26	31.88	11.52	30.95	254	176	A	H
		5140.92	60.47	-13.53	74	48.49	31.72	11.21	30.95	327	221	P	V
		5148.72	49.76	-4.24	54	37.78	31.72	11.21	30.95	327	221	A	V
	*	5270	113.03	-	-	100.82	31.81	11.35	30.95	327	221	P	V
	*	5270	103.29	-	-	91.08	31.81	11.35	30.95	327	221	A	V
		5353.68	64.26	-9.74	74	51.81	31.88	11.52	30.95	327	221	P	V
		5355.6	52.79	-1.21	54	40.34	31.88	11.52	30.95	327	221	A	V
802.11n HT40 CH 62 5310MHz		5048.36	58.74	-15.26	74	46.74	31.64	11.31	30.95	245	167	P	H
		5147.42	48.72	-5.28	54	36.74	31.72	11.21	30.95	245	167	A	H
	*	5310	111.37	-	-	99.04	31.85	11.43	30.95	245	167	P	H
	*	5310	99.9	-	-	87.57	31.85	11.43	30.95	245	167	A	H
		5350.08	67.94	-6.06	74	55.49	31.88	11.52	30.95	245	167	P	H
		5352.24	52.95	-1.05	54	40.5	31.88	11.52	30.95	245	167	A	H
		5111.02	59.29	-14.71	74	47.31	31.69	11.24	30.95	320	220	P	V
		5139.62	48.55	-5.45	54	36.54	31.72	11.24	30.95	320	220	A	V
	*	5310	110.89	-	-	97.97	32.44	11.43	30.95	320	220	P	V
	*	5310	99.68	-	-	86.76	32.44	11.43	30.95	320	220	A	V
		5350.32	66.68	-7.32	74	54.23	31.88	11.52	30.95	320	220	P	V
		5350.32	53.11	-0.89	54	40.66	31.88	11.52	30.95	320	220	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		10540	50.03	-23.97	74	49.98	39.93	17.31	57.19	100	0	P	H
		15810	44.72	-29.28	74	43.26	37.62	21.82	57.98	100	0	P	H
													H
													H
		10540	49.26	-24.74	74	49.21	39.93	17.31	57.19	100	0	P	V
		15810	45.39	-28.61	74	43.93	37.62	21.82	57.98	100	0	P	V
													V
													V
802.11n HT40 CH 62 5310MHz		10620	48.51	-25.49	74	48.29	40	17.4	57.18	100	0	P	H
		15930	44.28	-29.72	74	42.76	37.35	21.91	57.74	100	0	P	H
													H
													H
		10620	48.94	-25.06	74	48.72	40	17.4	57.18	100	0	P	V
		15930	43.29	-30.71	74	41.77	37.35	21.91	57.74	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5089.96	59.77	-14.23	74	47.77	31.68	11.27	30.95	257	159	P	H
		5128.96	51.3	-2.7	54	39.3	31.71	11.24	30.95	257	159	A	H
	*	5290	107.54	-	-	95.31	31.83	11.35	30.95	257	159	P	H
	*	5290	98.48	-	-	86.25	31.83	11.35	30.95	257	159	A	H
		5350.8	67.49	-6.51	74	55.04	31.88	11.52	30.95	257	159	P	H
		5352.24	53.8	-0.2	54	41.35	31.88	11.52	30.95	257	159	A	H
		5125.58	60.01	-13.99	74	48.01	31.71	11.24	30.95	230	189	P	V
		5146.12	50.71	-3.29	54	38.73	31.72	11.21	30.95	230	189	A	V
	*	5290	106.8	-	-	94.57	31.83	11.35	30.95	230	189	P	V
	*	5290	97.43	-	-	85.2	31.83	11.35	30.95	230	189	A	V
		5351.76	64.31	-9.69	74	51.86	31.88	11.52	30.95	230	189	P	V
		5361.36	53.1	-0.9	54	40.64	31.89	11.52	30.95	230	189	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 2 5250~5350MHz****WIFI 802.11ac VHT80 (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		10580	50.88	-23.12	74	50.73	39.97	17.36	57.18	100	0	P	H
		15870	42.42	-31.58	74	40.91	37.47	21.88	57.84	100	0	P	H
													H
													H
		10580	50.29	-23.71	74	50.14	39.97	17.36	57.18	100	0	P	V
		15870	40.93	-33.07	74	39.42	37.47	21.88	57.84	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

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		5469.68	66.11	-7.89	74	53.42	31.97	11.67	30.95	206	180	P	H
		5470	53.06	-0.94	54	40.37	31.97	11.67	30.95	206	180	A	H
	*	5500	115.99	-	-	103.27	32	11.67	30.95	206	180	P	H
	*	5500	106.02	-	-	93.3	32	11.67	30.95	206	180	A	H
													H
													H
		5469.84	64.21	-9.79	74	51.52	31.97	11.67	30.95	349	221	P	V
		5470	51.95	-2.05	54	39.26	31.97	11.67	30.95	349	221	A	V
	*	5500	115.52	-	-	102.8	32	11.67	30.95	349	221	P	V
	*	5500	105.7	-	-	92.98	32	11.67	30.95	349	221	A	V
													V
													V
802.11a CH 116 5580MHz		5466.64	60.91	-13.09	74	48.22	31.97	11.67	30.95	217	178	P	H
		5469.52	48.83	-5.17	54	36.14	31.97	11.67	30.95	217	178	A	H
	*	5580	115.26	-	-	102.42	32.08	11.74	30.98	217	178	P	H
	*	5580	105.26	-	-	92.42	32.08	11.74	30.98	217	178	A	H
		5736.125	60.59	-13.41	74	47.49	32.29	11.84	31.03	217	178	P	H
		5735.6	49.44	-4.56	54	36.34	32.29	11.84	31.03	217	178	A	H
		5459.92	60.5	-13.5	74	47.85	31.96	11.64	30.95	319	223	P	V
		5463.52	48.88	-5.12	54	36.19	31.97	11.67	30.95	319	223	A	V
	*	5580	114.77	-	-	101.93	32.08	11.74	30.98	319	223	P	V
	*	5580	105.26	-	-	92.42	32.08	11.74	30.98	319	223	A	V
		5752.225	60.39	-13.61	74	47.25	32.31	11.86	31.03	319	223	P	V
		5735.25	49.22	-4.78	54	36.12	32.29	11.84	31.03	319	223	A	V



802.11a CH 140 5700MHz	*	5700	114.27	-	-	101.23	32.23	11.82	31.01	242	170	P	H
	*	5700	104.64	-	-	91.6	32.23	11.82	31.01	242	170	A	H
		5725.4	67.23	-0.97	68.2	54.14	32.27	11.84	31.02	242	170	P	H
													H
													H
													H
	*	5700	113.25	-	-	100.21	32.23	11.82	31.01	323	222	P	V
	*	5700	106.82	-	-	93.78	32.23	11.82	31.01	323	222	A	V
		5725.08	65.34	-2.86	68.2	52.25	32.27	11.84	31.02	323	222	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	48.65	-25.35	74	47.59	40.3	17.86	57.1	100	0	P	H
		16500	44.71	-29.29	74	39.29	39	22.42	56	100	0	P	H
													H
													H
		11000	48.79	-25.21	74	47.73	40.3	17.86	57.1	100	0	P	V
		16500	43.76	-30.24	74	38.34	39	22.42	56	100	0	P	V
													V
													V
802.11a CH 116 5580MHz		11160	51.54	-22.46	74	50.53	40.3	18.04	57.33	100	0	P	H
		16740	47.47	-26.53	74	41.09	39.87	22.65	56.14	100	0	P	H
													H
													H
		11160	50.83	-23.17	74	49.82	40.3	18.04	57.33	100	0	P	V
		16740	46.6	-27.4	74	40.22	39.87	22.65	56.14	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	49.67	-24.33	74	48.72	40.3	18.31	57.66	100	0	P	H
		17100	48	-20.2	68.2	40.51	41.16	22.99	56.66	100	0	P	H
													H
													H
		11400	48.14	-25.86	74	47.19	40.3	18.31	57.66	100	0	P	V
		17100	48.73	-19.47	68.2	41.24	41.16	22.99	56.66	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		5459.12	63.15	-10.85	74	50.5	31.96	11.64	30.95	209	180	P	H
		5466.48	67.8	-0.4	68.2	55.11	31.97	11.67	30.95	209	180	P	H
		5458.96	52.45	-1.55	54	39.8	31.96	11.64	30.95	209	180	A	H
	*	5500	114.76	-	-	102.04	32	11.67	30.95	209	180	P	H
	*	5500	104.88	-	-	92.16	32	11.67	30.95	209	180	A	H
													H
		5452.08	62.29	-11.71	74	49.64	31.96	11.64	30.95	346	221	P	V
		5469.36	67.62	-0.58	68.2	54.93	31.97	11.67	30.95	346	221	P	V
		5458	51.87	-2.13	54	39.22	31.96	11.64	30.95	346	221	A	V
	*	5500	114.53	-	-	101.81	32	11.67	30.95	346	221	P	V
	*	5500	104.67	-	-	91.95	32	11.67	30.95	346	221	A	V
													V
802.11n HT20 CH 116 5580MHz		5457.76	60.68	-13.32	74	48.03	31.96	11.64	30.95	241	164	P	H
		5456.08	49.54	-4.46	54	36.89	31.96	11.64	30.95	241	164	A	H
	*	5580	116.33	-	-	103.49	32.08	11.74	30.98	241	164	P	H
	*	5580	105.9	-	-	93.06	32.08	11.74	30.98	241	164	A	H
		5746.625	61.34	-12.66	74	48.22	32.29	11.86	31.03	241	164	P	H
		5746.625	50.49	-3.51	54	37.37	32.29	11.86	31.03	241	164	A	H
		5414.56	59.94	-14.06	74	47.36	31.93	11.6	30.95	321	222	P	V
		5462.56	49.76	-4.24	54	37.07	31.97	11.67	30.95	321	222	A	V
	*	5580	116.27	-	-	103.43	32.08	11.74	30.98	321	222	P	V
	*	5580	105.26	-	-	92.42	32.08	11.74	30.98	321	222	A	V
		5728.075	60.77	-13.23	74	47.68	32.27	11.84	31.02	321	222	P	V
		5733.675	50.16	-3.84	54	37.08	32.27	11.84	31.03	321	222	A	V



802.11n HT20 CH 140 5700MHz	*	5700	113.93	-	-	100.16	32.96	11.82	31.01	247	196	P	H
	*	5700	103.36	-	-	89.59	32.96	11.82	31.01	247	196	A	H
		5725.8	67.41	-0.79	68.2	54.32	32.27	11.84	31.02	247	196	P	H
													H
													H
													H
	*	5700	111.4	-	-	98.36	32.23	11.82	31.01	317	224	P	V
	*	5700	101.96	-	-	88.92	32.23	11.82	31.01	317	224	A	V
		5725.88	65.69	-2.51	68.2	52.6	32.27	11.84	31.02	317	224	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		11000	48.77	-25.23	74	47.71	40.3	17.86	57.1	100	0	P	H
		16500	45.01	-23.19	68.2	39.59	39	22.42	56	100	0	P	H
													H
													H
		11000	50.34	-23.66	74	49.28	40.3	17.86	57.1	100	0	P	V
		16500	44.69	-23.51	68.2	39.27	39	22.42	56	100	0	P	V
													V
													V
802.11n HT20 CH 116 5580MHz		11160	50.83	-23.17	74	49.82	40.3	18.04	57.33	100	0	P	H
		16740	46.82	-27.18	74	40.44	39.87	22.65	56.14	100	0	P	H
													H
													H
		11160	50.62	-23.38	74	49.61	40.3	18.04	57.33	100	0	P	V
		16740	46.34	-27.66	74	39.96	39.87	22.65	56.14	100	0	P	V
													V
													V
802.11n HT20 CH 140 5700MHz		11400	49.43	-24.57	74	48.48	40.3	18.31	57.66	100	0	P	H
		17100	48.68	-19.52	68.2	41.19	41.16	22.99	56.66	100	0	P	H
													H
													H
		11400	47.19	-26.81	74	46.24	40.3	18.31	57.66	100	0	P	V
		17100	49.31	-18.89	68.2	41.82	41.16	22.99	56.66	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		5458.24	63.49	-10.51	74	50.84	31.96	11.64	30.95	256	119	P	H
		5464.24	67.54	-0.66	68.2	54.85	31.97	11.67	30.95	256	119	P	H
		5458.48	52.25	-1.75	54	39.6	31.96	11.64	30.95	256	119	A	H
	*	5510	110.29	-	-	97.12	32.43	11.7	30.96	256	119	P	H
	*	5510	99.05	-	-	85.88	32.43	11.7	30.96	256	119	A	H
		5753.8	60.56	-7.64	68.2	47.42	32.31	11.86	31.03	256	119	P	H
		5457.04	62.68	-11.32	74	50.03	31.96	11.64	30.95	162	169	P	V
		5461.6	66.78	-1.42	68.2	54.1	31.96	11.67	30.95	162	169	P	V
		5458.72	52.01	-1.99	54	39.36	31.96	11.64	30.95	162	169	A	V
	*	5510	110.09	-	-	97.35	32	11.7	30.96	162	169	P	V
	*	5510	98.48	-	-	85.74	32	11.7	30.96	162	169	A	V
		5750.3	60.21	-7.99	68.2	47.09	32.29	11.86	31.03	162	169	P	V
802.11n HT40 CH 110 5550MHz		5466.88	65.74	-8.26	74	53.05	31.97	11.67	30.95	255	113	P	H
		5469.28	53.79	-0.21	54	41.1	31.97	11.67	30.95	255	113	A	H
	*	5550	114.64	-	-	101.81	32.06	11.74	30.97	255	113	P	H
	*	5550	103.37	-	-	90.54	32.06	11.74	30.97	255	113	A	H
		5748.025	60.46	-13.54	74	47.34	32.29	11.86	31.03	255	113	P	H
		5728.075	50.3	-3.7	54	37.21	32.27	11.84	31.02	255	113	A	H
		5465.68	65.63	-8.37	74	52.94	31.97	11.67	30.95	326	221	P	V
		5468.32	53.65	-0.35	54	40.96	31.97	11.67	30.95	326	221	A	V
	*	5550	114.15	-	-	101.32	32.06	11.74	30.97	326	221	P	V
	*	5550	103.52	-	-	90.69	32.06	11.74	30.97	326	221	A	V
		5745.925	60.67	-13.33	74	47.55	32.29	11.86	31.03	326	221	P	V
		5733.325	50.07	-3.93	54	36.99	32.27	11.84	31.03	326	221	A	V



802.11n HT40 CH 134 5670MHz		5416.48	59.5	-14.5	74	46.92	31.93	11.6	30.95	249	237	P	H
		5466.16	59.66	-8.54	68.2	46.97	31.97	11.67	30.95	249	237	P	H
		5435.2	49.12	-4.88	54	36.48	31.95	11.64	30.95	249	237	A	H
	*	5670	113.58	-	-	100.56	32.21	11.82	31.01	249	237	P	H
	*	5670	101.65	-	-	88.63	32.21	11.82	31.01	249	237	A	H
		5725.1	66.14	-2.06	68.2	53.05	32.27	11.84	31.02	249	237	P	H
		5430.4	59.98	-14.02	74	47.34	31.95	11.64	30.95	328	220	P	V
		5470	58.86	-9.34	68.2	46.17	31.97	11.67	30.95	328	220	P	V
		5458.96	49.22	-4.78	54	36.57	31.96	11.64	30.95	328	220	A	V
	*	5670	113.18	-	-	100.16	32.21	11.82	31.01	328	220	P	V
	*	5670	101.12	-	-	88.1	32.21	11.82	31.01	328	220	A	V
		5725.8	67.18	-1.02	68.2	54.09	32.27	11.84	31.02	328	220	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		11020	48.59	-25.41	74	47.55	40.3	17.86	57.12	100	0	P	H
		16530	45.43	-22.77	68.2	39.87	39.12	22.46	56.02	100	0	P	H
													H
													H
		11020	49.52	-24.48	74	48.48	40.3	17.86	57.12	100	0	P	V
		16530	44.56	-23.64	68.2	39	39.12	22.46	56.02	100	0	P	V
													V
													V
802.11n HT40 CH 110 5550MHz		11100	49.83	-24.17	74	48.82	40.3	17.95	57.24	100	0	P	H
		16650	47.29	-26.71	74	41.25	39.56	22.57	56.09	100	0	P	H
													H
													H
		11100	50.04	-23.96	74	49.03	40.3	17.95	57.24	100	0	P	V
		16650	46.65	-27.35	74	40.61	39.56	22.57	56.09	100	0	P	V
													V
													V
802.11n HT40 CH 134 5670MHz		11340	50.28	-23.72	74	49.33	40.3	18.22	57.57	100	0	P	H
		17010	48.46	-19.74	68.2	41.05	40.86	22.91	56.36	100	0	P	H
													H
													H
		11340	48.2	-25.8	74	47.25	40.3	18.22	57.57	100	0	P	V
		17010	47.86	-20.34	68.2	40.45	40.86	22.91	56.36	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5458.72	63.72	-10.28	74	51.07	31.96	11.64	30.95	255	119	P	H
		5468.56	65.23	-2.97	68.2	52.54	31.97	11.67	30.95	255	119	P	H
		5453.68	53.2	-0.8	54	40.55	31.96	11.64	30.95	255	119	A	H
	*	5530	106.11	-	-	93.36	32.02	11.7	30.97	255	119	P	H
	*	5530	96.4	-----	-----	83.65	32.02	11.7	30.97	255	119	A	H
		5760.1	60.97	-7.23	68.2	47.84	32.31	11.86	31.04	255	119	P	H
		5453.92	63.15	-10.85	74	50.5	31.96	11.64	30.95	345	224	P	V
		5461.12	64.89	-3.31	68.2	52.21	31.96	11.67	30.95	345	224	P	V
		5456.32	52.69	-1.31	54	40.04	31.96	11.64	30.95	345	224	A	V
	*	5530	106.14	-	-	93.39	32.02	11.7	30.97	345	224	P	V
	*	5530	96.57	-----	-----	83.82	32.02	11.7	30.97	345	224	A	V
		5733.85	61.62	-6.58	68.2	48.54	32.27	11.84	31.03	345	224	P	V
802.11ac VHT80 CH 122 5610MHz		5443.36	62.76	-11.24	74	50.12	31.95	11.64	30.95	260	195	P	H
		5465.68	63.62	-4.58	68.2	50.93	31.97	11.67	30.95	260	195	P	H
		5455.6	53.84	-0.16	54	41.2	31.95	11.64	30.95	260	195	A	H
	*	5610	112.58	-	-	99.68	32.12	11.77	30.99	260	195	P	H
	*	5610	103.09	-----	-----	90.19	32.12	11.77	30.99	260	195	A	H
		5730.35	67.91	-0.29	68.2	54.83	32.27	11.84	31.03	260	195	P	H
		5447.92	62.29	-11.71	74	49.64	31.96	11.64	30.95	321	221	P	V
		5463.52	62.33	-5.87	68.2	49.64	31.97	11.67	30.95	321	221	P	V
		5456.08	52.5	-1.5	54	39.85	31.96	11.64	30.95	321	221	A	V
	*	5610	111.7	-	-	98.8	32.12	11.77	30.99	321	221	P	V
	*	5610	101.54	-----	-----	88.64	32.12	11.77	30.99	321	221	A	V
		5725.275	65.49	-2.71	68.2	52.4	32.27	11.84	31.02	321	221	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		11060	50.49	-23.51	74	49.42	40.36	17.9	57.19	100	0	P	H
		16590	45.16	-23.04	68.2	39.09	39.58	22.54	56.05	100	0	P	H
													H
													H
		11060	50.26	-23.74	74	49.19	40.36	17.9	57.19	100	0	P	V
		16590	44.26	-23.94	68.2	38.19	39.58	22.54	56.05	100	0	P	V
													V
													V
802.11ac VHT80 CH 122 5610MHz		11220	50.59	-23.41	74	49.64	40.27	18.08	57.4	100	0	P	H
		16830	46.33	-21.87	68.2	39.42	40.35	22.76	56.2	100	0	P	H
													H
													H
		11220	50.24	-23.76	74	49.29	40.27	18.08	57.4	100	0	P	V
		16830	47.61	-20.59	68.2	40.7	40.35	22.76	56.2	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												


Band 3 - Straddle Channel
WIFI 802.11a (Band Edge @ 3m)

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	117.96	-	-	104.87	32.27	11.84	31.02	251	195	P	H
	*	5720	107.44	-	-	94.35	32.27	11.84	31.02	251	195	A	H
													H
													H
													H
													H
	*	5720	116.15	-	-	103.06	32.27	11.84	31.02	320	219	P	V
	*	5720	105.34	-	-	92.25	32.27	11.84	31.02	320	219	A	V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												

**Band 3 - Straddle Channel****WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		11440	50.44	-23.56	74	49.49	40.3	18.36	57.71	100	0	P	H
		17160	48.38	-25.62	74	40.82	41.4	23.06	56.9	100	0	P	H
													H
													H
		11440	48.74	-25.26	74	47.79	40.3	18.36	57.71	100	0	P	V
		17160	48.18	-25.82	74	40.62	41.4	23.06	56.9	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz	*	5720	117.97	-	-	104.88	32.27	11.84	31.02	247	238	P	H
	*	5720	106.58	-	-	93.49	32.27	11.84	31.02	247	238	A	H
													H
													H
													H
													H
	*	5720	117.21	-	-	103.37	33.02	11.84	31.02	327	225	P	V
	*	5720	105.37	-	-	91.53	33.02	11.84	31.02	327	225	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 3 - Straddle Channel****WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz		11440	50.73	-23.27	74	49.78	40.3	18.36	57.71	100	0	P	H
		17160	48.11	-25.89	74	40.55	41.4	23.06	56.9	100	0	P	H
													H
													H
		11440	47.78	-26.22	74	46.83	40.3	18.36	57.71	100	0	P	V
		17160	47.2	-26.8	74	39.64	41.4	23.06	56.9	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 142 5710MHz	*	5710	115.94	-	-	102.87	32.25	11.84	31.02	251	241	P	H
	*	5710	104.41	-	-	91.34	32.25	11.84	31.02	251	241	A	H
													H
													H
													H
													H
	*	5710	115.09	-	-	102.02	32.25	11.84	31.02	310	223	P	V
	*	5710	103.35	-	-	90.28	32.25	11.84	31.02	310	223	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												


Band 3 - Straddle Channel
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 142 5710MHz		11420	49.76	-24.24	74	48.83	40.3	18.31	57.68	100	0	P	H
		17130	48.96	-25.04	74	41.44	41.28	23.02	56.78	100	0	P	H
													H
													H
		11420	47.7	-26.3	74	46.77	40.3	18.31	57.68	100	0	P	V
		17130	46.84	-27.16	74	39.32	41.28	23.02	56.78	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 138 5690MHz	*	5690	113.54	-	-	100.5	32.23	11.82	31.01	249	197	P	H
	*	5690	103.88	-	-	90.84	32.23	11.82	31.01	249	197	A	H
													H
													H
													H
													H
	*	5690	112.41	-	-	99.37	32.23	11.82	31.01	325	223	P	V
	*	5690	102.19	-	-	89.15	32.23	11.82	31.01	325	223	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												


Band 3 - Straddle Channel
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 138 5690MHz		11380	49.81	-24.19	74	48.88	40.3	18.27	57.64	100	0	P	H
		17070	45.75	-28.25	74	38.26	41.04	22.99	56.54	100	0	P	H
													H
													H
		11380	49.46	-24.54	74	48.53	40.3	18.27	57.64	100	0	P	V
		17070	45.16	-28.84	74	37.67	41.04	22.99	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.												

Emission below 1GHz

WIFI 802.11n HT20 (LF @ 3m)

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 LF		77.25	31.12	-8.88	40	49.18	13.32	1.06	32.44	100	0	P	H
		131.79	31.29	-12.21	43.5	44.32	17.96	1.43	32.42	-	-	P	H
		299.73	30.14	-15.86	46	40.62	19.5	2.25	32.23	-	-	P	H
		405.7	27.43	-18.57	46	34.82	22.3	2.68	32.37	-	-	P	H
		814.5	31.77	-14.23	46	31.7	28.04	4.14	32.11	-	-	P	H
		939.8	32.99	-13.01	46	29.58	30.03	4.6	31.22	-	-	P	H
													H
													H
													H
													H
													H
													H
		84.54	33.01	-6.99	40	50.25	14.14	1.06	32.44	100	0	P	V
		211.71	33.02	-10.48	43.5	47.62	16.09	1.7	32.39	-	-	P	V
		230.07	28.65	-17.35	46	42.48	16.7	1.83	32.36	-	-	P	V
		456.1	26.76	-19.24	46	33.06	23.2	2.89	32.39	-	-	P	V
		743.8	28.88	-17.12	46	29.77	27.46	3.97	32.32	-	-	P	V
		946.1	33.02	-12.98	46	29.25	30.19	4.75	31.17	-	-	P	V
													V
													V
												V	
												V	
												V	
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	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		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		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”.



<TXBF Modes>

Band 2 - 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamplifier Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
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		5137.8	60.18	-13.82	74	47.42	32.47	11.24	30.95	246	161	P	H
		5048.88	50.09	-3.91	54	37.24	32.49	11.31	30.95	246	161	A	H
	*	5260	117.55	-	-	104.79	32.45	11.26	30.95	246	161	P	H
	*	5260	107.11	-	-	94.35	32.45	11.26	30.95	246	161	A	H
		5361.12	60.49	-13.51	74	47.49	32.43	11.52	30.95	246	161	P	H
		5351.52	50.6	-3.4	54	37.6	32.43	11.52	30.95	246	161	A	H
		5130.78	60.56	-13.44	74	47.8	32.47	11.24	30.95	189	179	P	V
		5048.62	50.31	-3.69	54	37.46	32.49	11.31	30.95	189	179	A	V
	*	5260	116.11	-	-	103.35	32.45	11.26	30.95	189	179	P	V
	*	5260	105.88	-	-	93.12	32.45	11.26	30.95	189	179	A	V
		5358.72	60.65	-13.35	74	47.65	32.43	11.52	30.95	189	179	P	V
		5351.04	50.25	-3.75	54	37.25	32.43	11.52	30.95	189	179	A	V
802.11n HT20 CH 60 5300MHz		5133.12	60.18	-13.82	74	47.42	32.47	11.24	30.95	235	161	P	H
		5086.58	50.14	-3.86	54	37.34	32.48	11.27	30.95	235	161	A	H
	*	5300	117.61	-	-	104.77	32.44	11.35	30.95	235	161	P	H
	*	5300	106.92	-	-	94.08	32.44	11.35	30.95	235	161	A	H
		5350.08	63.44	-10.56	74	50.44	32.43	11.52	30.95	235	161	P	H
		5350.8	53.32	-0.68	54	40.32	32.43	11.52	30.95	235	161	A	H
		5081.38	60.69	-13.31	74	47.89	32.48	11.27	30.95	191	196	P	V
		5071.76	49.9	-4.1	54	37.09	32.49	11.27	30.95	191	196	A	V
	*	5300	116.73	-	-	103.89	32.44	11.35	30.95	191	196	P	V
	*	5300	106.06	-	-	93.22	32.44	11.35	30.95	191	196	A	V
		5360.88	62.15	-11.85	74	49.15	32.43	11.52	30.95	191	196	P	V
		5355.6	51.85	-2.15	54	38.85	32.43	11.52	30.95	191	196	A	V



802.11n HT20 CH 64 5320MHz	*	5320	116.6	-	-	103.68	32.44	11.43	30.95	239	163	P	H
	*	5320	106.79	-	-	93.87	32.44	11.43	30.95	239	163	A	H
		5350.4	65.77	-8.23	74	52.77	32.43	11.52	30.95	239	163	P	H
		5351.2	53.56	-0.44	54	40.56	32.43	11.52	30.95	239	163	A	H
													H
													H
	*	5320	116.24	-	-	103.32	32.44	11.43	30.95	225	195	P	V
	*	5320	105.49	-	-	92.57	32.44	11.43	30.95	225	195	A	V
		5350.4	63.42	-10.58	74	50.42	32.43	11.52	30.95	225	195	P	V
		5350.72	52.85	-1.15	54	39.85	32.43	11.52	30.95	225	195	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 52 5260MHz		10520	52.42	-21.58	74	52.3	40.01	17.31	57.2	205	226	P	H
		10520	46.49	-7.51	54	46.37	40.01	17.31	57.2	205	226	A	H
		15780	46.44	-27.56	74	44.04	38.66	21.79	58.05	100	0	P	H
													H
		10520	48.07	-25.93	74	47.95	40.01	17.31	57.2	100	0	P	V
		15780	47.02	-26.98	74	44.62	38.66	21.79	58.05	100	0	P	V
													V
													V
802.11n HT20 CH 60 5300MHz		10600	53.93	-20.07	74	53.67	40.04	17.4	57.18	203	226	P	H
		10600	48.97	-5.03	54	48.71	40.04	17.4	57.18	203	226	A	H
		15900	46.01	-27.99	74	43.64	38.3	21.88	57.81	100	0	P	H
													H
		10600	49.61	-24.39	74	49.35	40.04	17.4	57.18	100	0	P	V
		15900	45.6	-28.4	74	43.23	38.3	21.88	57.81	100	0	P	V
													V
													V
802.11n HT20 CH 64 5320MHz		10640	49.29	-24.71	74	48.95	40.06	17.45	57.17	100	0	P	H
		15960	46.5	-27.5	74	44.11	38.12	21.94	57.67	100	0	P	H
													H
													H
		10640	48.18	-25.82	74	47.84	40.06	17.45	57.17	100	0	P	V
		15960	45.51	-28.49	74	43.12	38.12	21.94	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.												



Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5143.52	61.2	-12.8	74	48.47	32.47	11.21	30.95	200	166	P	H
		5148.2	50.68	-3.32	54	37.95	32.47	11.21	30.95	200	166	A	H
	*	5270	117.21	-	-	104.36	32.45	11.35	30.95	200	166	P	H
	*	5270	106.94	-	-	94.09	32.45	11.35	30.95	200	166	A	H
		5350.8	62.8	-11.2	74	49.8	32.43	11.52	30.95	200	166	P	H
		5356.8	52.38	-1.62	54	39.38	32.43	11.52	30.95	200	166	A	H
		5039.52	60.16	-13.84	74	47.31	32.49	11.31	30.95	202	196	P	V
		5131.56	50.04	-3.96	54	37.28	32.47	11.24	30.95	202	196	A	V
	*	5270	117.23	-	-	104.38	32.45	11.35	30.95	202	196	P	V
	*	5270	107.04	-	-	94.19	32.45	11.35	30.95	202	196	A	V
		5354.64	62.19	-11.81	74	49.19	32.43	11.52	30.95	202	196	P	V
		5362.32	51.57	-2.43	54	38.57	32.43	11.52	30.95	202	196	A	V
802.11n HT40 CH 62 5310MHz		5115.44	60.18	-13.82	74	47.41	32.48	11.24	30.95	243	164	P	H
		5132.6	49.52	-4.48	54	36.76	32.47	11.24	30.95	243	164	A	H
	*	5310	116.13	-	-	103.21	32.44	11.43	30.95	243	164	P	H
	*	5310	105.69	-	-	92.77	32.44	11.43	30.95	243	164	A	H
		5352.24	69.83	-4.17	74	56.83	32.43	11.52	30.95	243	164	P	H
		5352.72	53.84	-0.16	54	40.84	32.43	11.52	30.95	243	164	A	H
		5033.28	60.23	-13.77	74	47.38	32.49	11.31	30.95	241	194	P	V
		5019.24	49.42	-4.58	54	36.53	32.5	11.34	30.95	241	194	A	V
	*	5310	115.73	-	-	102.81	32.44	11.43	30.95	241	194	P	V
	*	5310	105.05	-	-	92.13	32.44	11.43	30.95	241	194	A	V
		5351.76	67.75	-6.25	74	54.75	32.43	11.52	30.95	241	194	P	V
		5350.32	53.41	-0.59	54	40.41	32.43	11.52	30.95	241	194	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		10540	53.72	-20.28	74	53.58	40.02	17.31	57.19	202	227	P	H
		10540	48.64	-5.36	54	48.5	40.02	17.31	57.19	202	227	A	H
		15810	45.37	-28.63	74	42.96	38.57	21.82	57.98	100	0	P	H
													H
		10540	48.92	-25.08	74	48.78	40.02	17.31	57.19	100	0	P	V
		15810	43.6	-30.4	74	41.19	38.57	21.82	57.98	100	0	P	V
													V
													V
802.11n HT40 CH 62 5310MHz		10620	50.75	-23.25	74	50.48	40.05	17.4	57.18	100	0	P	H
		15930	45.3	-28.7	74	42.92	38.21	21.91	57.74	100	0	P	H
													H
													H
		10620	49.64	-24.36	74	49.37	40.05	17.4	57.18	100	0	P	V
		15930	43.2	-30.8	74	40.82	38.21	21.91	57.74	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												


Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5115.18	59.94	-14.06	74	47.17	32.48	11.24	30.95	249	176	P	H
		5145.08	49.96	-4.04	54	37.23	32.47	11.21	30.95	249	176	A	H
	*	5290	110.81	-	-	97.97	32.44	11.35	30.95	249	176	P	H
	*	5290	100.36	-	-	87.52	32.44	11.35	30.95	249	176	A	H
		5359.68	64.75	-9.25	74	51.75	32.43	11.52	30.95	249	176	P	H
		5350.08	53.18	-0.82	54	40.18	32.43	11.52	30.95	249	176	A	H
		5042.38	60.3	-13.7	74	47.45	32.49	11.31	30.95	282	209	P	V
		5144.56	49.29	-4.71	54	36.56	32.47	11.21	30.95	282	209	A	V
	*	5290	109.25	-	-	96.41	32.44	11.35	30.95	282	209	P	V
	*	5290	99.16	-	-	86.32	32.44	11.35	30.95	282	209	A	V
		5445.12	60.62	-13.38	74	47.52	32.41	11.64	30.95	282	209	P	V
		5380.56	49.8	-4.2	54	36.73	32.42	11.6	30.95	282	209	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 2 5250~5350MHz****WIFI 802.11ac VHT80 (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		10580	52.43	-21.57	74	52.22	40.03	17.36	57.18	100	0	P	H
		15870	43.62	-30.38	74	41.19	38.39	21.88	57.84	100	0	P	H
													H
													H
		10580	50.28	-23.72	74	50.07	40.03	17.36	57.18	100	0	P	V
		15870	43.41	-30.59	74	40.98	38.39	21.88	57.84	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

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		5466.8	63.06	-10.94	74	49.93	32.41	11.67	30.95	237	189	P	H
		5469.36	52.43	-1.57	54	39.3	32.41	11.67	30.95	237	189	A	H
	*	5500	115.43	-	-	102.31	32.4	11.67	30.95	237	189	P	H
	*	5500	104.35	-	-	91.23	32.4	11.67	30.95	237	189	A	H
													H
													H
		5470	64.27	-9.73	74	51.14	32.41	11.67	30.95	203	193	P	V
		5469.04	51.94	-2.06	54	38.81	32.41	11.67	30.95	203	193	A	V
	*	5500	114.57	-	-	101.45	32.4	11.67	30.95	203	193	P	V
	*	5500	104.15	-	-	91.03	32.4	11.67	30.95	203	193	A	V
													V
													V
802.11n HT20 CH 116 5580MHz		5445.04	60.93	-13.07	74	47.83	32.41	11.64	30.95	223	179	P	H
		5454.16	50.23	-3.77	54	37.13	32.41	11.64	30.95	223	179	A	H
	*	5580	114.36	-	-	100.98	32.62	11.74	30.98	223	179	P	H
	*	5580	104.45	-	-	91.07	32.62	11.74	30.98	223	179	A	H
		5753.8	61.42	-12.58	74	47.48	33.11	11.86	31.03	223	179	P	H
		5739.1	50.83	-3.17	54	36.95	33.07	11.84	31.03	223	179	A	H
		5389.6	61.41	-12.59	74	48.34	32.42	11.6	30.95	208	191	P	V
		5458.72	49.87	-4.13	54	36.77	32.41	11.64	30.95	208	191	A	V
	*	5580	113.55	-	-	100.17	32.62	11.74	30.98	208	191	P	V
	*	5580	103.39	-	-	90.01	32.62	11.74	30.98	208	191	A	V
		5730.525	61.08	-12.92	74	47.22	33.05	11.84	31.03	208	191	P	V
		5759.575	50.32	-3.68	54	36.37	33.13	11.86	31.04	208	191	A	V



802.11n HT20 CH 140 5700MHz	*	5700	116.2	-	-	102.43	32.96	11.82	31.01	255	198	P	H
	*	5700	105.96	-	-	92.19	32.96	11.82	31.01	255	198	A	H
		5730.36	67.59	-0.61	68.2	53.73	33.05	11.84	31.03	255	198	P	H
													H
													H
													H
	*	5700	114.1	-	-	100.33	32.96	11.82	31.01	167	152	P	V
	*	5700	103.76	-	-	89.99	32.96	11.82	31.01	167	152	A	V
		5725.4	66.85	-1.35	68.2	53	33.03	11.84	31.02	167	152	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		11000	50.82	-23.18	74	49.86	40.2	17.86	57.1	100	0	P	H
		16500	46.31	-27.69	74	40.39	39.5	22.42	56	100	0	P	H
													H
													H
		11000	49.72	-24.28	74	48.76	40.2	17.86	57.1	100	0	P	V
		16500	45.52	-28.48	74	39.6	39.5	22.42	56	100	0	P	V
													V
													V
802.11n HT20 CH 116 5580MHz		11160	51.98	-22.02	74	51.07	40.2	18.04	57.33	100	0	P	H
		16740	45.18	-28.82	74	38.26	40.41	22.65	56.14	100	0	P	H
													H
													H
		11160	50.33	-23.67	74	49.42	40.2	18.04	57.33	100	0	P	V
		16740	44.36	-29.64	74	37.44	40.41	22.65	56.14	100	0	P	V
													V
													V
802.11n HT20 CH 140 5700MHz		11400	50.18	-23.82	74	49.33	40.2	18.31	57.66	100	0	P	H
		17100	47.63	-20.57	68.2	39.68	41.62	22.99	56.66	100	0	P	H
													H
													H
		11400	48.41	-25.59	74	47.56	40.2	18.31	57.66	100	0	P	V
		17100	47.38	-20.82	68.2	39.43	41.62	22.99	56.66	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		5457.76	63.88	-10.12	74	50.78	32.41	11.64	30.95	246	190	P	H
		5464	67.92	-0.28	68.2	54.79	32.41	11.67	30.95	246	190	P	H
		5458.48	52.85	-1.15	54	39.75	32.41	11.64	30.95	246	190	A	H
	*	5510	112.76	-	-	99.59	32.43	11.7	30.96	246	190	P	H
	*	5510	101.81	-	-	88.64	32.43	11.7	30.96	246	190	A	H
		5745.225	61.03	-7.17	68.2	47.11	33.09	11.86	31.03	246	190	P	H
		5459.2	62.52	-11.48	74	49.42	32.41	11.64	30.95	153	165	P	V
		5468.56	67.54	-0.66	68.2	54.41	32.41	11.67	30.95	153	165	P	V
		5458.48	52.41	-1.59	54	39.31	32.41	11.64	30.95	153	165	A	V
	*	5510	111.71	-	-	98.54	32.43	11.7	30.96	153	165	P	V
	*	5510	101.09	-	-	87.92	32.43	11.7	30.96	153	165	A	V
		5759.925	61.44	-6.76	68.2	47.49	33.13	11.86	31.04	153	165	P	V
802.11n HT40 CH 110 5550MHz		5449.12	61.64	-12.36	74	48.54	32.41	11.64	30.95	241	189	P	H
		5466.64	60.07	-8.13	68.2	46.94	32.41	11.67	30.95	241	189	P	H
		5452.48	50.92	-3.08	54	37.82	32.41	11.64	30.95	241	189	A	H
	*	5550	112.13	-	-	98.82	32.54	11.74	30.97	241	189	P	H
	*	5550	101.37	-	-	88.06	32.54	11.74	30.97	241	189	A	H
		5745.575	61.09	-7.11	68.2	47.17	33.09	11.86	31.03	241	189	P	H
		5428	61.12	-12.88	74	48.02	32.41	11.64	30.95	178	192	P	V
		5464	61.12	-7.08	68.2	47.99	32.41	11.67	30.95	178	192	P	V
		5458	50.51	-3.49	54	37.41	32.41	11.64	30.95	178	192	A	V
	*	5550	111.1	-	-	97.79	32.54	11.74	30.97	178	192	P	V
	*	5550	99.4	-	-	86.09	32.54	11.74	30.97	178	192	A	V
		5764.825	61.05	-7.15	68.2	47.09	33.14	11.86	31.04	178	192	P	V



802.11n HT40 CH 134 5670MHz		5434.24	60.27	-13.73	74	47.17	32.41	11.64	30.95	247	198	P	H
		5468.08	59.61	-8.59	68.2	46.48	32.41	11.67	30.95	247	198	P	H
		5450.32	49.53	-4.47	54	36.43	32.41	11.64	30.95	247	198	A	H
	*	5670	112.19	-	-	98.5	32.88	11.82	31.01	247	198	P	H
	*	5670	101.35	-	-	87.66	32.88	11.82	31.01	247	198	A	H
		5734.2	64.3	-3.9	68.2	50.43	33.06	11.84	31.03	247	198	P	H
		5403.28	60.7	-13.3	74	47.63	32.42	11.6	30.95	148	161	P	V
		5460.4	59.91	-8.29	68.2	46.78	32.41	11.67	30.95	148	161	P	V
		5358.4	49.43	-4.57	54	36.43	32.43	11.52	30.95	148	161	A	V
	*	5670	108.58	-	-	94.89	32.88	11.82	31.01	148	161	P	V
	*	5670	98.71	-	-	85.02	32.88	11.82	31.01	148	161	A	V
		5729.65	64.18	-4.02	68.2	50.32	33.04	11.84	31.02	148	161	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 102 5510MHz		11020	50.5	-23.5	74	49.56	40.2	17.86	57.12	100	0	P	H
		16530	44.64	-23.56	68.2	38.59	39.61	22.46	56.02	100	0	P	H
													H
													H
		11020	49.03	-24.97	74	48.09	40.2	17.86	57.12	100	0	P	V
		16530	45.12	-23.08	68.2	39.07	39.61	22.46	56.02	100	0	P	V
													V
													V
802.11n HT40 CH 110 5550MHz		11100	50.15	-23.85	74	49.24	40.2	17.95	57.24	100	0	P	H
		16650	45.14	-23.06	68.2	38.59	40.07	22.57	56.09	100	0	P	H
													H
													H
		11100	50.01	-23.99	74	49.1	40.2	17.95	57.24	100	0	P	V
		16650	45.16	-23.04	68.2	38.61	40.07	22.57	56.09	100	0	P	V
													V
													V
802.11n HT40 CH 134 5670MHz		11340	49.76	-24.24	74	48.91	40.2	18.22	57.57	100	0	P	H
		17010	47.41	-20.79	68.2	39.44	41.42	22.91	56.36	100	0	P	H
													H
													H
		11340	49.32	-24.68	74	48.47	40.2	18.22	57.57	100	0	P	V
		17010	45.15	-23.05	68.2	37.18	41.42	22.91	56.36	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5459.68	64.94	-9.06	74	51.84	32.41	11.64	30.95	259	155	P	H
		5466.88	67.73	-0.47	68.2	54.6	32.41	11.67	30.95	259	155	P	H
		5457.04	53.51	-0.49	54	40.41	32.41	11.64	30.95	259	155	A	H
	*	5530	108.12	-	-	94.91	32.48	11.7	30.97	259	155	P	H
	*	5530	97.4	-	-	84.19	32.48	11.7	30.97	259	155	A	H
		5755.2	61.17	-7.03	68.2	47.23	33.11	11.86	31.03	259	155	P	H
		5458.72	62.7	-11.3	74	49.6	32.41	11.64	30.95	140	141	P	V
		5464.24	63.55	-4.65	68.2	50.42	32.41	11.67	30.95	140	141	P	V
		5459.92	51.22	-2.78	54	38.12	32.41	11.64	30.95	140	141	A	V
	*	5530	107.29	-	-	94.08	32.48	11.7	30.97	140	141	P	V
	*	5530	96.71	-	-	83.5	32.48	11.7	30.97	140	141	A	V
		5726.85	60.97	-7.23	68.2	47.11	33.04	11.84	31.02	140	141	P	V
802.11ac VHT80 CH 122 5610MHz		5445.28	63.52	-10.48	74	50.42	32.41	11.64	30.95	238	168	P	H
		5463.28	65.08	-3.12	68.2	51.95	32.41	11.67	30.95	238	168	P	H
		5456.56	53.23	-0.77	54	40.13	32.41	11.64	30.95	238	168	A	H
	*	5610	115.37	-	-	101.88	32.71	11.77	30.99	238	168	P	H
	*	5610	104.92	-	-	91.43	32.71	11.77	30.99	238	168	A	H
		5741.025	66.96	-1.24	68.2	53.06	33.07	11.86	31.03	238	168	P	H
		5447.44	62.38	-11.62	74	49.28	32.41	11.64	30.95	130	170	P	V
		5468.32	63.64	-4.56	68.2	50.51	32.41	11.67	30.95	130	170	P	V
		5451.76	53.06	-0.94	54	39.96	32.41	11.64	30.95	130	170	A	V
	*	5610	113.7	-	-	100.21	32.71	11.77	30.99	130	170	P	V
	*	5610	102.65	-	-	89.16	32.71	11.77	30.99	130	170	A	V
		5727.9	66.32	-1.88	68.2	52.46	33.04	11.84	31.02	130	170	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		11060	50.71	-23.29	74	49.8	40.2	17.9	57.19	100	0	P	H
		16590	46.1	-22.1	68.2	39.77	39.84	22.54	56.05	100	0	P	H
													H
													H
		11060	49.49	-24.51	74	48.58	40.2	17.9	57.19	100	0	P	V
		16590	44.16	-24.04	68.2	37.83	39.84	22.54	56.05	100	0	P	V
													V
													V
802.11ac VHT80 CH 122 5610MHz		11220	51.1	-22.9	74	50.22	40.2	18.08	57.4	100	0	P	H
		16830	47.96	-20.24	68.2	40.65	40.75	22.76	56.2	100	0	P	H
													H
													H
		11220	50.49	-23.51	74	49.61	40.2	18.08	57.4	100	0	P	V
		16830	48.07	-20.13	68.2	40.76	40.75	22.76	56.2	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 3 - Straddle Channel****WIFI 802.11n HT20 (Band Edge @ 3m)**

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	113.57	-	-	99.73	33.02	11.84	31.02	250	193	P	H
	*	5720	102.26	-	-	88.42	33.02	11.84	31.02	250	193	A	H
													H
													H
													H
													H
	*	5720	110.53	-	-	96.69	33.02	11.84	31.02	156	152	P	V
	*	5720	99.88	-	-	86.04	33.02	11.84	31.02	156	152	A	V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												


Band 3 - Straddle Channel
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 144 5720MHz		11440	50.67	-23.33	74	49.82	40.2	18.36	57.71	100	0	P	H
		17160	49.53	-24.47	74	41.62	41.75	23.06	56.9	100	0	P	H
													H
													H
		11440	47.84	-26.16	74	46.99	40.2	18.36	57.71	100	0	P	V
		17160	49.76	-24.24	74	41.85	41.75	23.06	56.9	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 142 5710MHz	*	5710	110.88	-	-	97.07	32.99	11.84	31.02	250	200	P	H
	*	5710	101.66	-	-	87.85	32.99	11.84	31.02	250	200	A	H
													H
													H
													H
													H
	*	5710	108.93	-	-	95.12	32.99	11.84	31.02	130	142	P	V
	*	5710	98.33	-	-	84.52	32.99	11.84	31.02	130	142	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 3 - Straddle Channel****WIFI 802.11n HT40 (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 142 5710MHz		11420	50.16	-23.84	74	49.33	40.2	18.31	57.68	100	0	P	H
		17130	48.97	-25.03	74	41.04	41.69	23.02	56.78	100	0	P	H
													H
													H
		11420	47.98	-26.02	74	47.15	40.2	18.31	57.68	100	0	P	V
		17130	48.99	-25.01	74	41.06	41.69	23.02	56.78	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 3 - Straddle Channel****WIFI 802.11ac VHT80 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 138 5690MHz	*	5690	110.4	-	-	96.66	32.93	11.82	31.01	170	130	P	H
	*	5690	98.81	-	-	85.07	32.93	11.82	31.01	170	130	A	H
													H
													H
													H
													H
	*	5680	108.73	-	-	95.02	32.9	11.82	31.01	152	137	P	V
	*	5680	97.92	-	-	84.21	32.9	11.82	31.01	152	137	A	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 3 - Straddle Channel****WIFI 802.11ac VHT80 (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 138 5690MHz		11380	49.91	-24.09	74	49.08	40.2	18.27	57.64	100	0	P	H
		17070	49.05	-24.95	74	41.05	41.55	22.99	56.54	100	0	P	H
													H
													H
		11380	48.6	-25.4	74	47.77	40.2	18.27	57.64	100	0	P	V
		17070	48.75	-25.25	74	40.75	41.55	22.99	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.												

Emission below 1GHz

WIFI 802.11n HT40 (LF @ 3m)

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		30	24.38	-15.62	40	30.26	25.8	0.78	32.46	-	-	P	H
		132.6	35.93	-7.57	43.5	48.98	17.94	1.43	32.42	100	0	P	H
		290.28	35.43	-10.57	46	46.13	19.3	2.25	32.25	-	-	P	H
		324.5	35.19	-10.81	46	44.86	20.25	2.34	32.26	-	-	P	H
		750.1	34.32	-11.68	46	35.06	27.6	3.97	32.31	-	-	P	H
		806.1	34.25	-11.75	46	34.38	27.89	4.14	32.16	-	-	P	H
													H
													H
													H
													H
													H
													H
		30	31.08	-8.92	40	36.96	25.8	0.78	32.46	-	-	P	V
		119.91	33.3	-10.2	43.5	46.7	17.6	1.43	32.43	-	-	P	V
		138.27	35.49	-8.01	43.5	48.66	17.82	1.43	32.42	-	-	P	V
		268.68	38.1	-7.9	46	49	19.14	2.25	32.29	100	0	P	V
		291.09	37.7	-8.3	46	48.38	19.32	2.25	32.25	-	-	P	V
		806.1	32.59	-13.41	46	32.72	27.89	4.14	32.16	-	-	P	V
													V
													V
												V	
												V	
												V	
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	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		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		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”.



Appendix C. Radiated Spurious Emission

Test Engineer :	Karl Hou, Peter Liao, and Nick Yu	Temperature :	23~25°C
		Relative Humidity :	52~55%

Note symbol

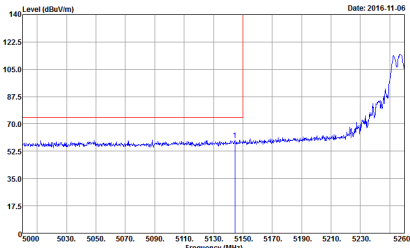
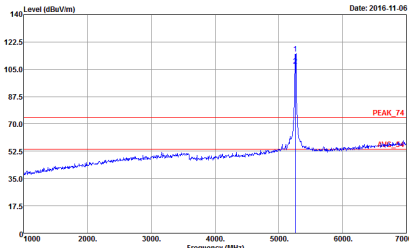
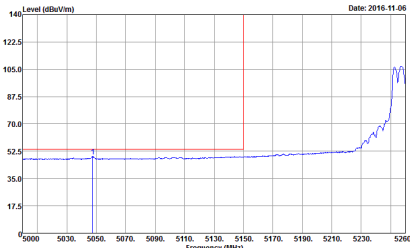
-L	Low channel location
-R	High channel location



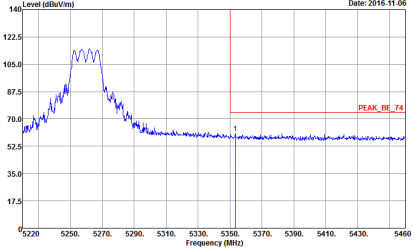
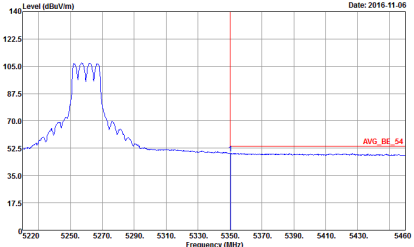
<Non-TXBF Modes>

Band 2 - 5250~5350MHz

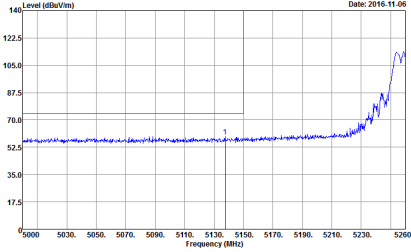
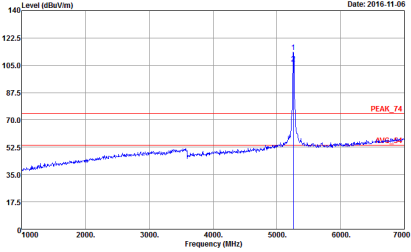
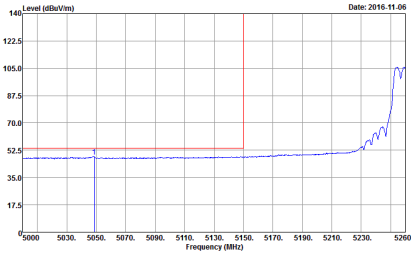
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak	Left blank

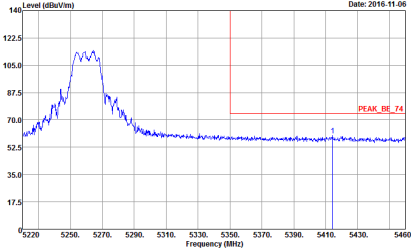
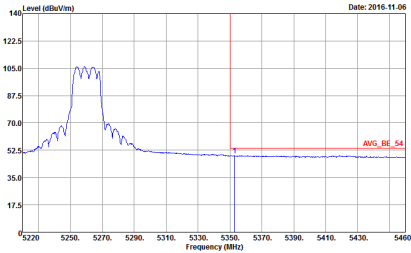


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto : Peak	Left blank

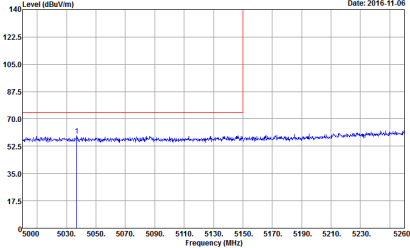
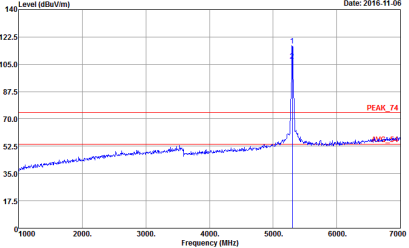
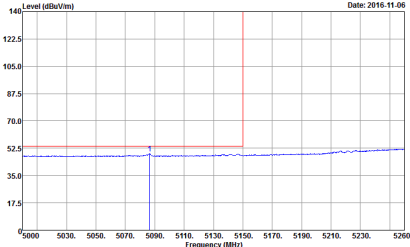


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	Left blank

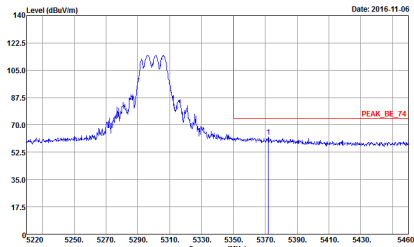
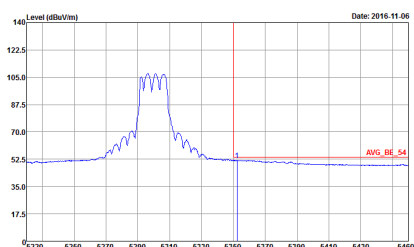


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto : Peak	Left blank

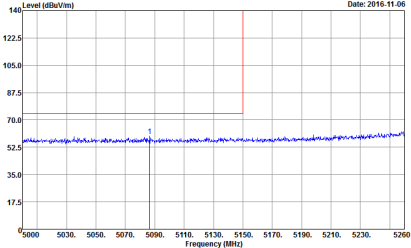
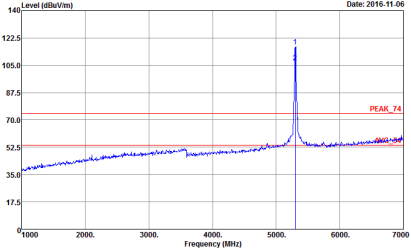
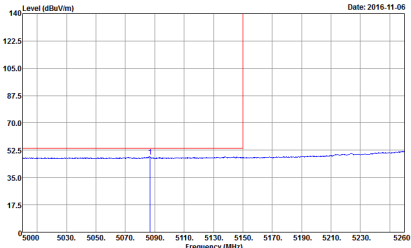


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto : Peak	Left blank

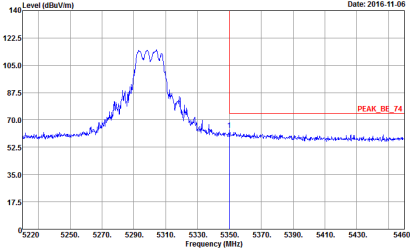
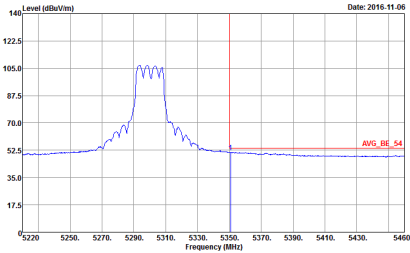


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak	Left blank

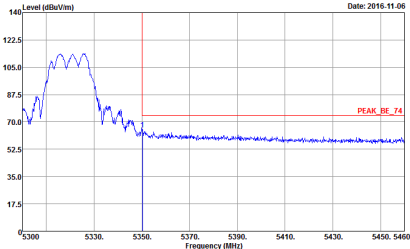
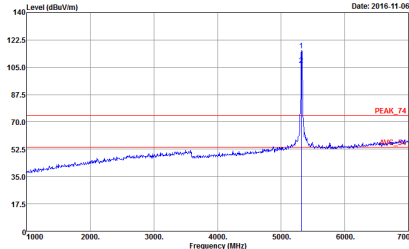
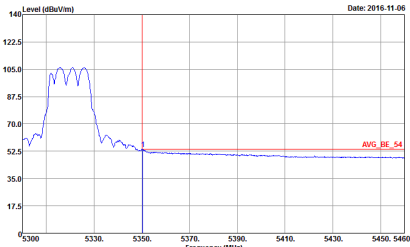


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto : Peak	Left blank

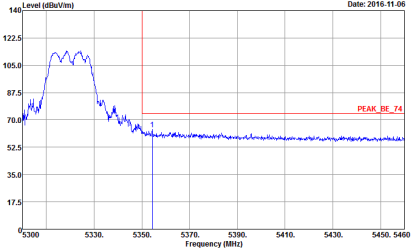
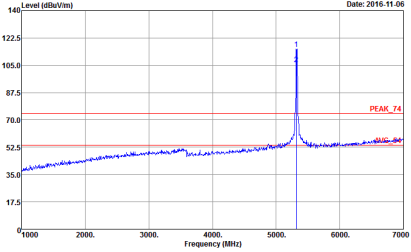
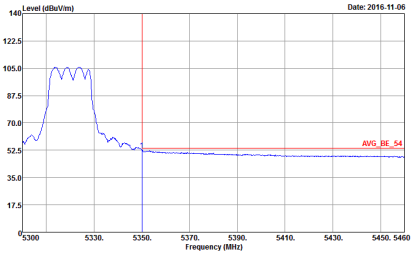


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto : Peak	Left blank



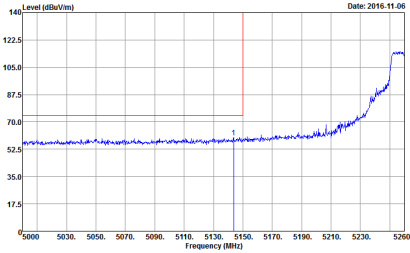
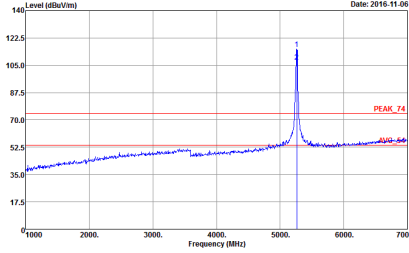
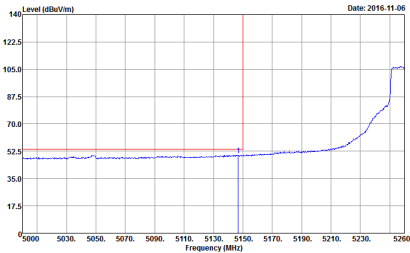
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto : Peak	Left blank



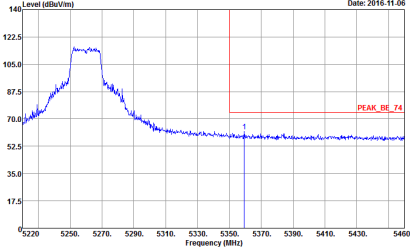
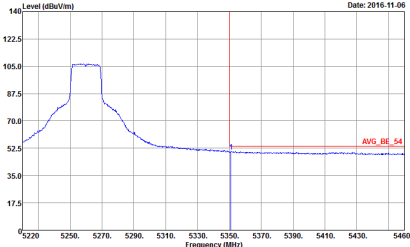
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto : Peak	Left blank



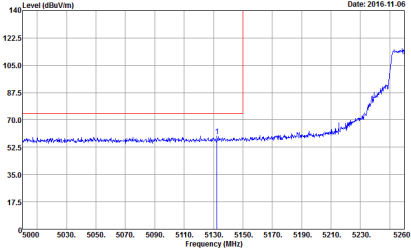
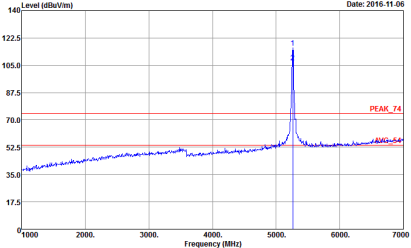
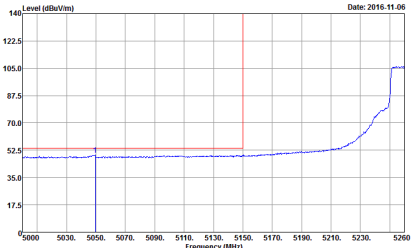
Band 2 5250~5350MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK, BE_74 3m HORN, 9120D, 1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK, 74 3m HORN, 9120D, 1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG, BE_54 3m HORN, 9120D, 1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto : Peak	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto : Peak	Left blank

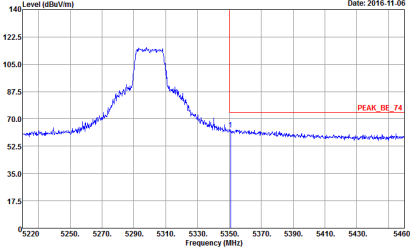
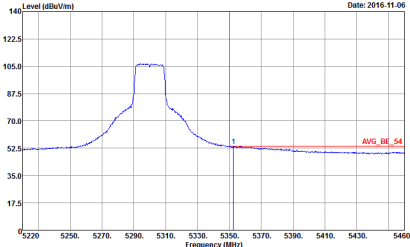


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
1+2	Vertical	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank
Avg.	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak	Left blank

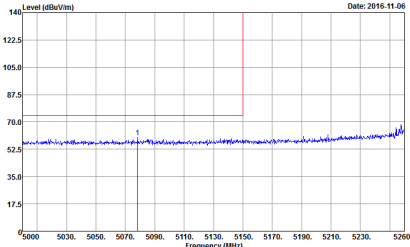
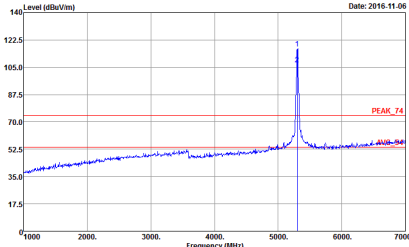
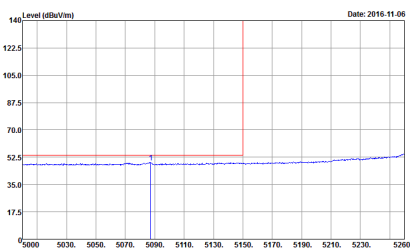


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto : Peak	Left blank

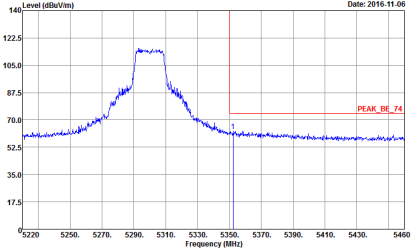
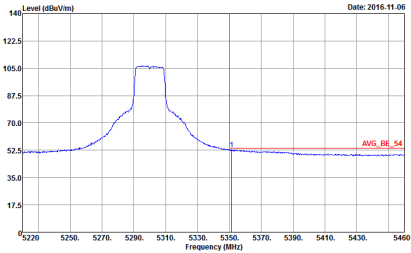


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Horizontal	Vertical
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak	Left blank



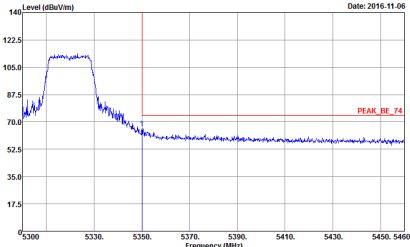
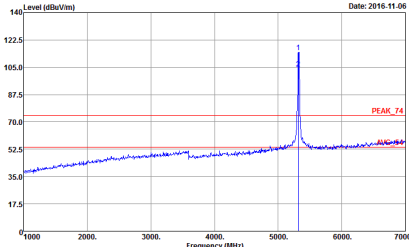
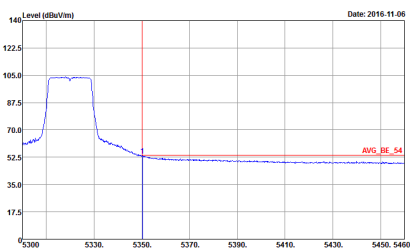
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto : Peak	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto : Peak	Left blank

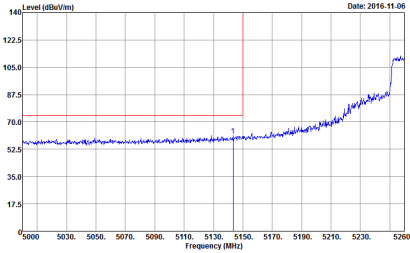
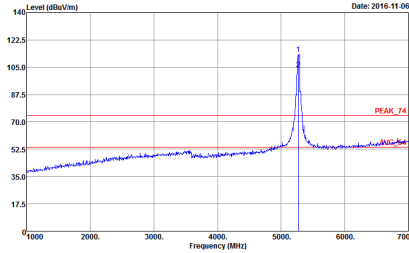
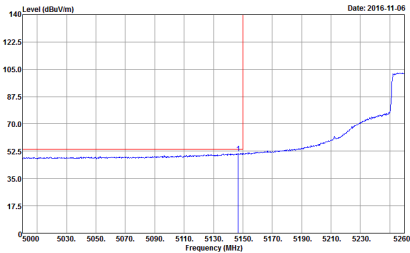


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto : Peak	Left blank

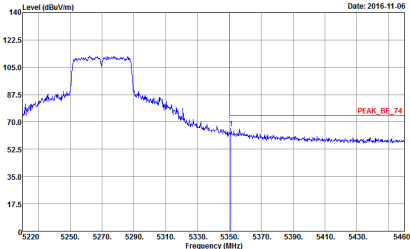
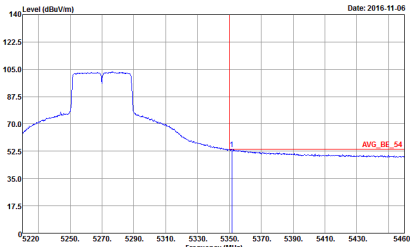
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto : Peak	Left blank



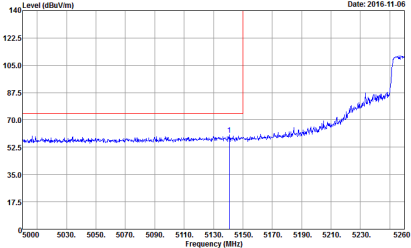
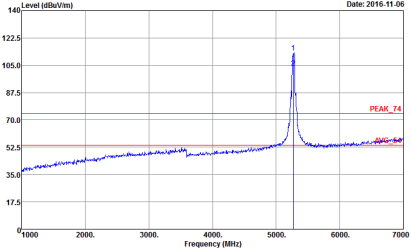
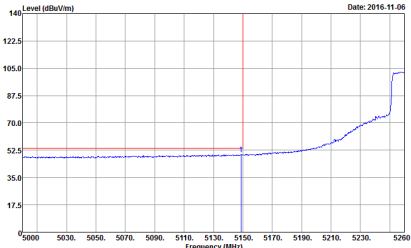
Band 2 5250~5350MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK, BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK, 74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG, BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto : Peak	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 MHz - L	
1+2	Vertical	Vertical
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto : Peak	Left blank

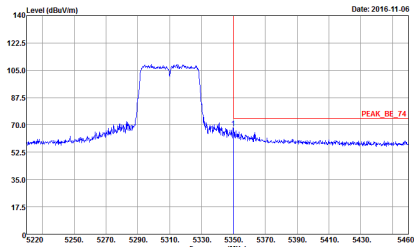
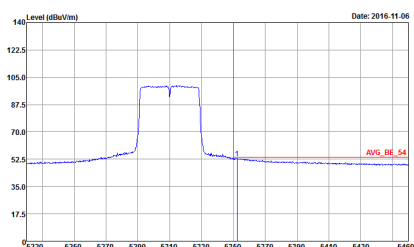


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 MHz - R	
1+2	Vertical	Vertical
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank
Avg.	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak	Left blank

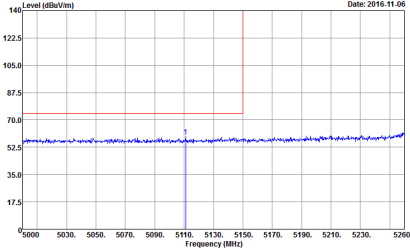
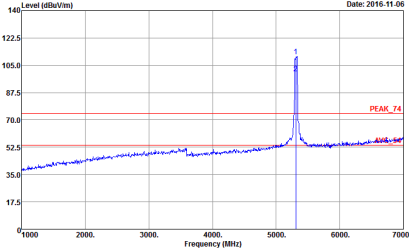
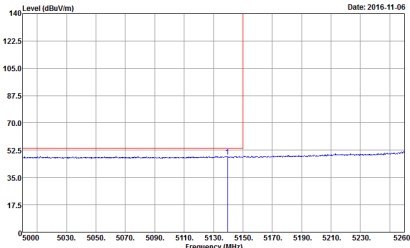


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 MHz - L	
1+2	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 671301 Mode : S Setting : 64
Avg.	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak	Left blank

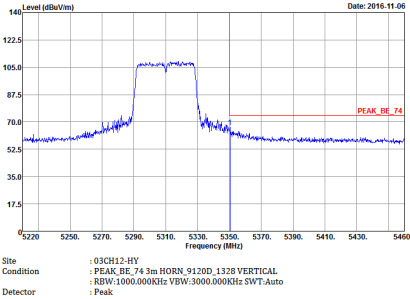
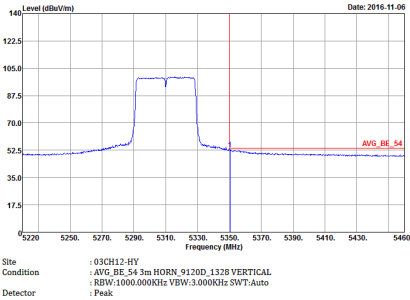


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto : Peak	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto : Peak	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

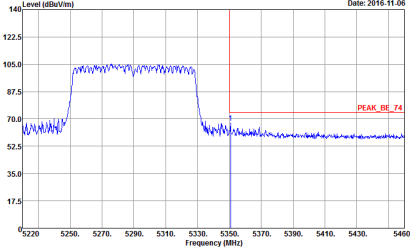
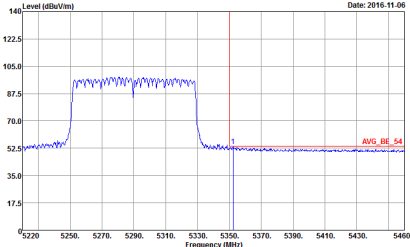


Band 2 5250~5350MHz

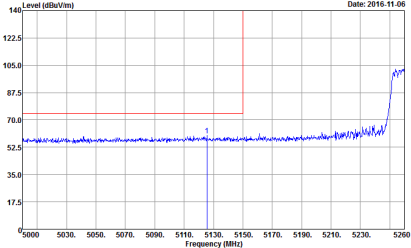
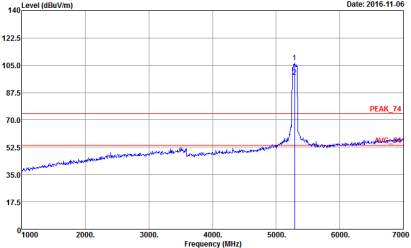
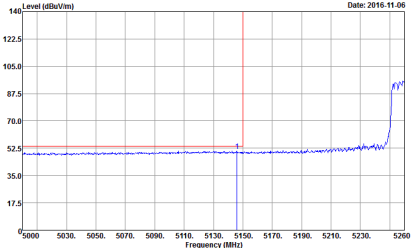
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SVT:Auto : Peak	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SVT:Auto : Peak
Avg.	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:10.000KHz SVT:Auto : Peak	Left blank

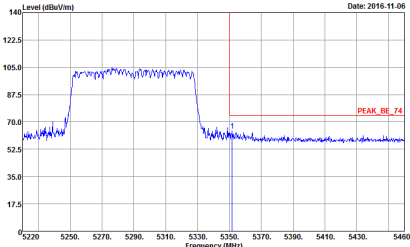
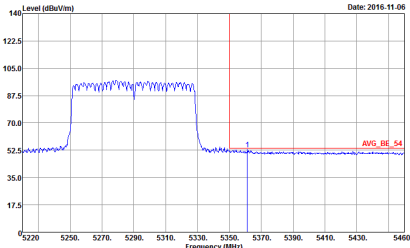


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:30.000KHz SWT:Auto : Peak	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:10.000KHz SWT:Auto : Peak	Left blank



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:10.000KHz SWT:Auto Detector : Peak	Left blank



Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak



WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak



WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBu/m) Date: 2016-11-07 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak	Level (dBu/m) Date: 2016-11-07 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak



Band 2 5250~5350MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak



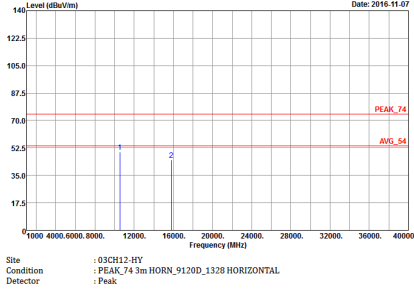
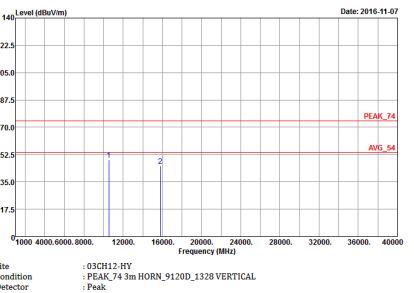
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBu/m) Date: 2016-11-06 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak	Level (dBu/m) Date: 2016-11-06 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak



WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBu/m) Date: 2016-11-07 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak	Level (dBu/m) Date: 2016-11-07 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak



Band 2 5250~5350MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

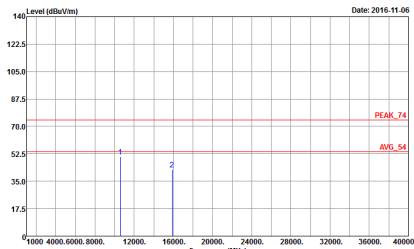
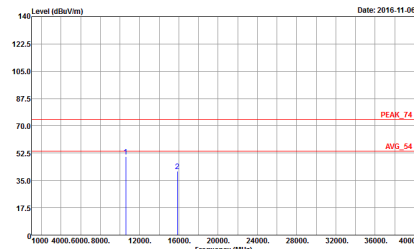
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270 MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak



WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310 MHz	
1+2	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2016-11-07 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak	Level (dBuV/m) Date: 2016-11-07 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak



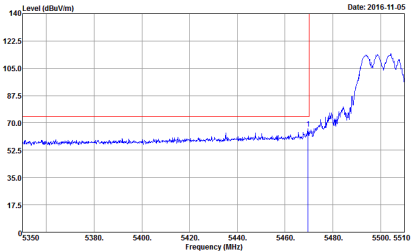
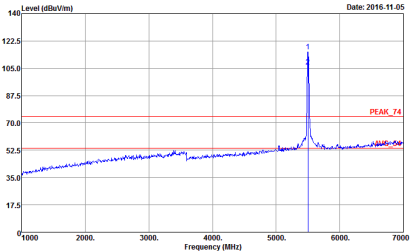
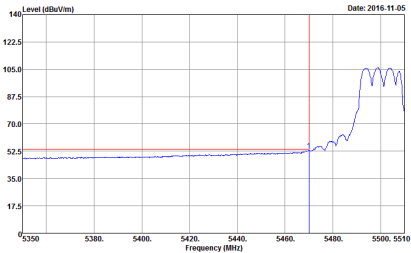
Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 HORIZONTAL	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 VERTICAL

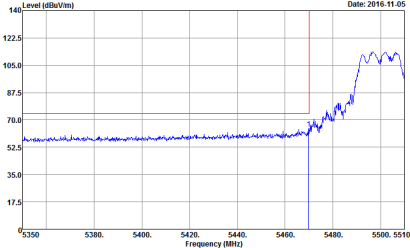
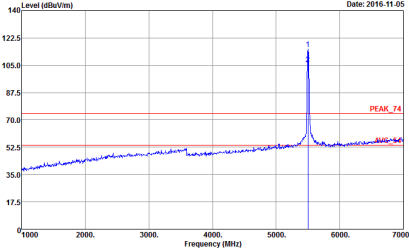
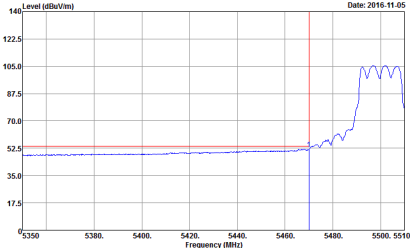


Band 3 - 5470~5725MHz

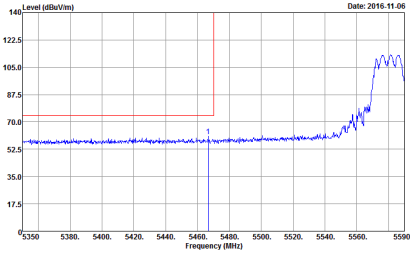
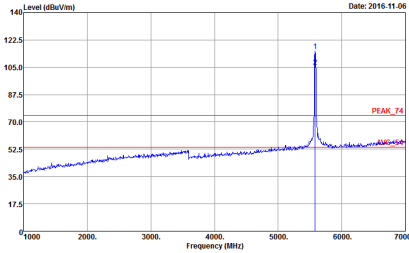
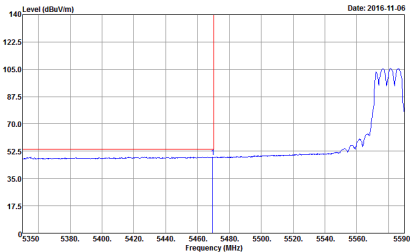
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto : Peak	Left blank

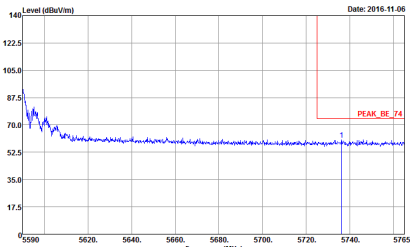
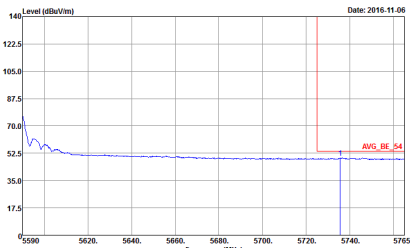


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto : Peak	Left blank

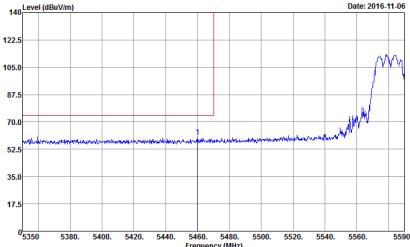
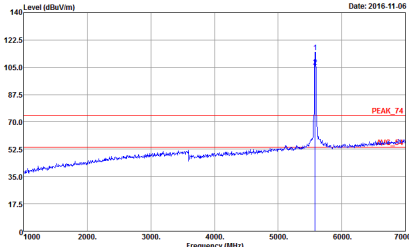
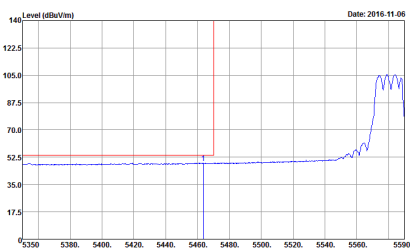


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak	 Level (dBuV/m) vs Frequency (MHz) plot for Peak Horizontal. The plot shows a sharp peak at 5580 MHz. The y-axis ranges from 0 to 140 dBuV/m, and the x-axis ranges from 5350 to 5590 MHz. A red line indicates the peak level at approximately 135 dBuV/m. Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Level (dBuV/m) vs Frequency (MHz) plot for Peak Fundamental. The plot shows a sharp peak at 5580 MHz. The y-axis ranges from 0 to 140 dBuV/m, and the x-axis ranges from 1000 to 7000 MHz. A red line indicates the peak level at approximately 135 dBuV/m. Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Level (dBuV/m) vs Frequency (MHz) plot for Avg Horizontal. The plot shows a sharp peak at 5580 MHz. The y-axis ranges from 0 to 140 dBuV/m, and the x-axis ranges from 5350 to 5590 MHz. A red line indicates the peak level at approximately 135 dBuV/m. Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto : Peak	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank

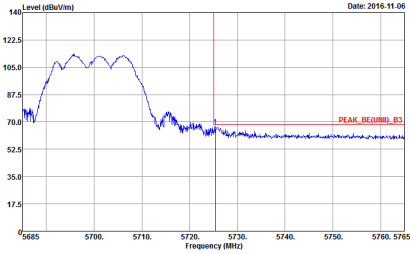
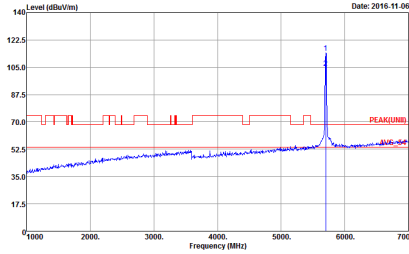


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto : Peak	Left blank

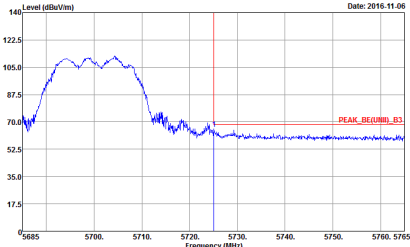
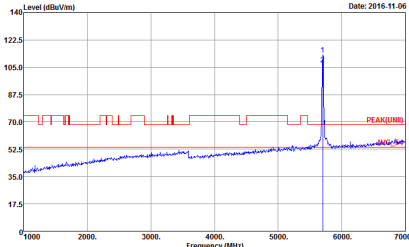


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank
Avg.	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN 9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak

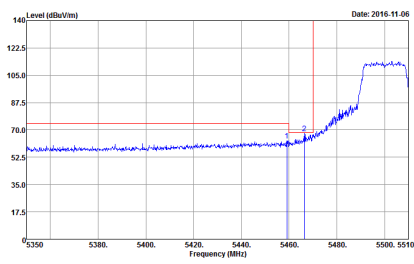
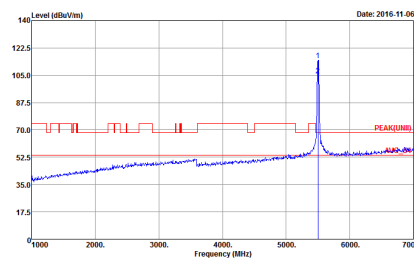
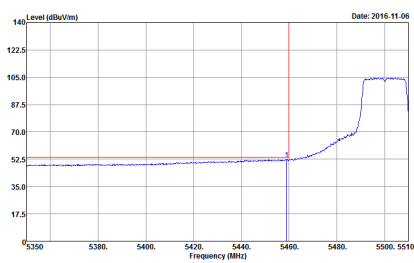


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH140 5700MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UNID)_B3 3m HORN 9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK(UNID)_B3 3m HORN 9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak

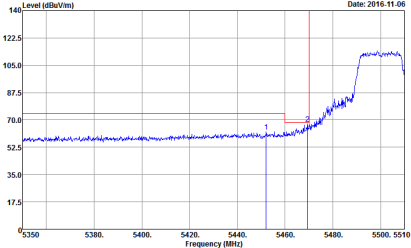
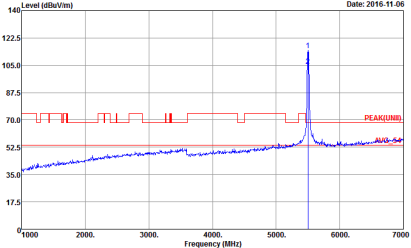
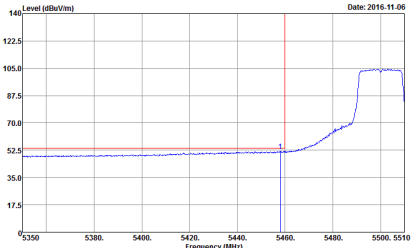


Band 3 5470~5725MHz

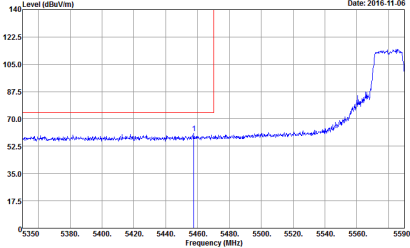
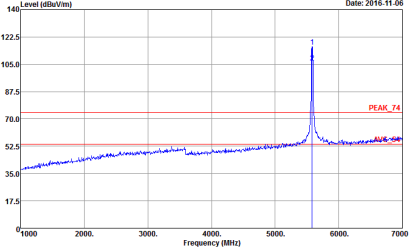
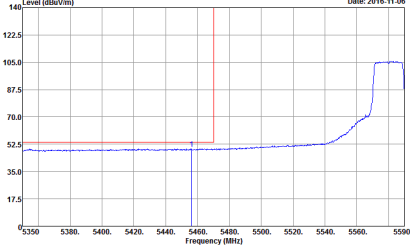
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SVT:Auto Detector : Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SVT:Auto Detector : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SVT:Auto Detector : Peak	Left blank

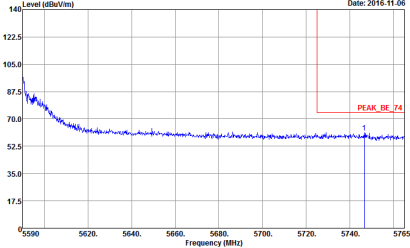
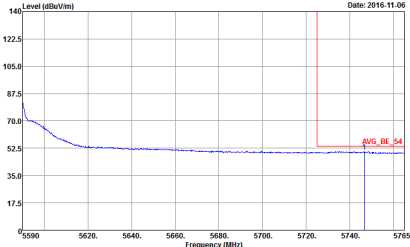


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH100 5500MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK(UNII)_3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto : Peak	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto : Peak	Left blank



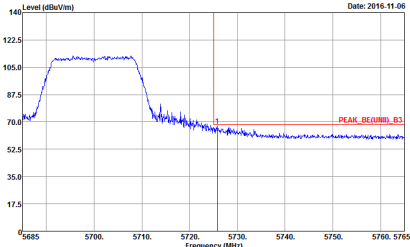
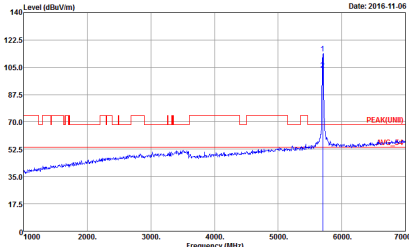
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - L	
1+2	Vertical	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto : Peak	Left blank

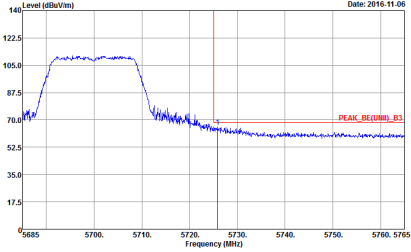
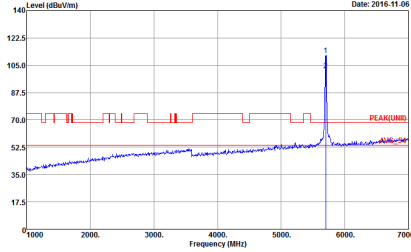


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH116 5580MHz - R	
1+2	Vertical	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank
Avg.	Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UNID)_B3 3m HORN 9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK(UNID) 3m HORN 9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak

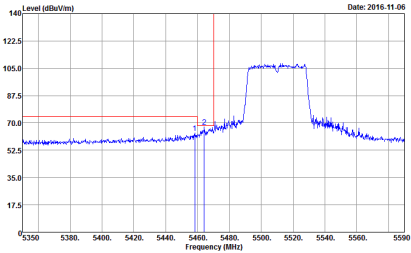
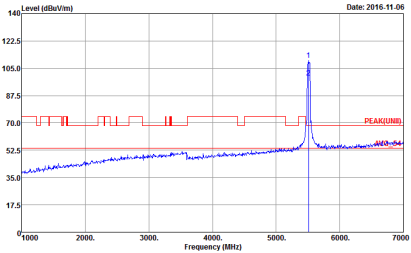
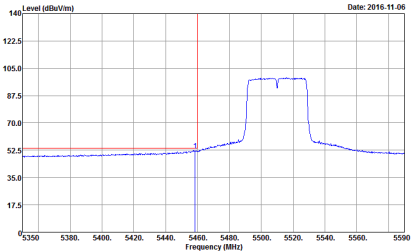


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT20 CH140 5700MHz	
1+2	Vertical	Fundamental
Peak.	 Site : 03CH12-HY Condition : PEAK_BE(UNID)_B3 3m HORN 9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK(UNID) 3m HORN 9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak



Band 3 5470~5725MHz

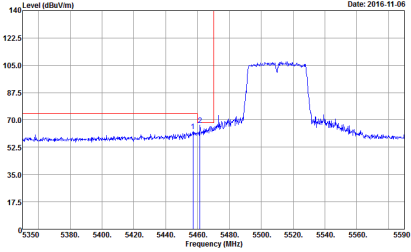
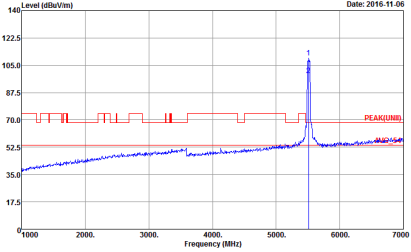
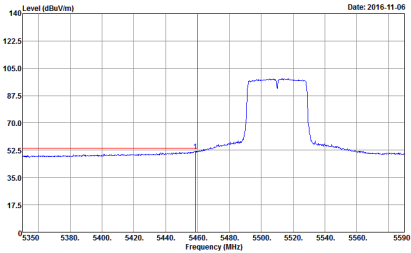
WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SVT:Auto Detector : Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SVT:Auto Detector : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SVT:Auto Detector : Peak	Left blank

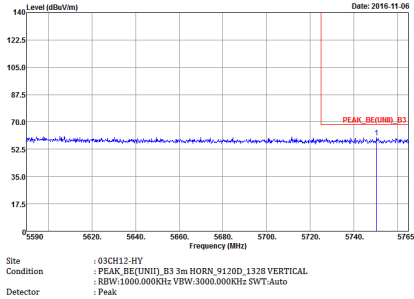


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1+2	Horizontal	Fundamental
Peak	Level (dBuV/m) Date: 2016-11-06 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_BE(UNIT)_B3 3m HORN 9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	Left blank

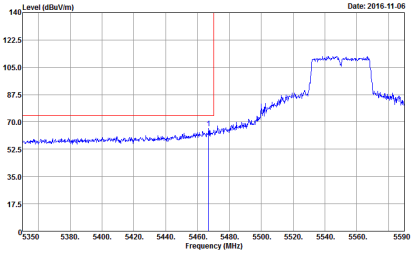
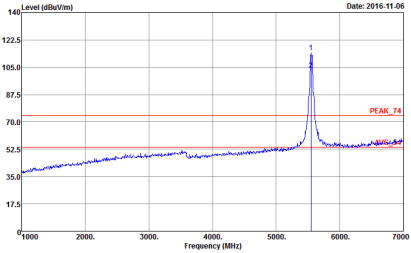
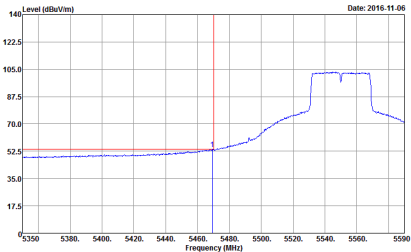


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK(UNII)_3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto : Peak	Left blank

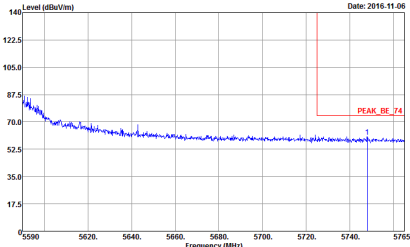
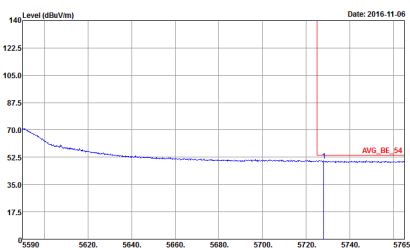


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH102 5510MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank

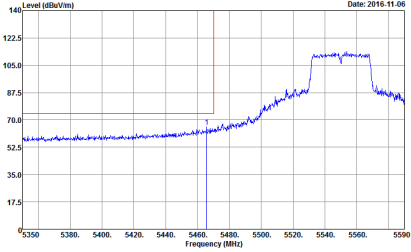
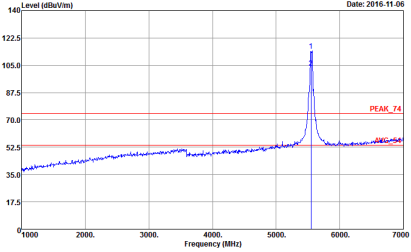
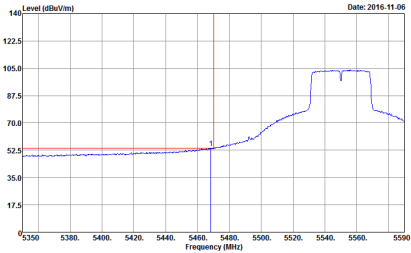


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto : Peak	Left blank

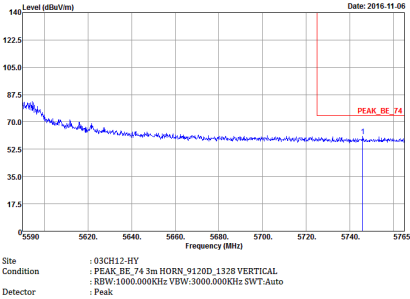
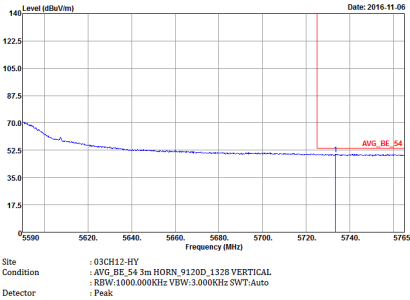


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak	Left blank

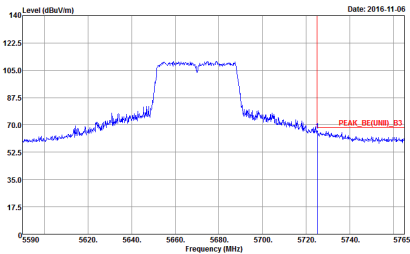


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH110 5550MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

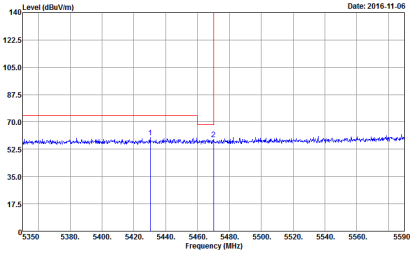
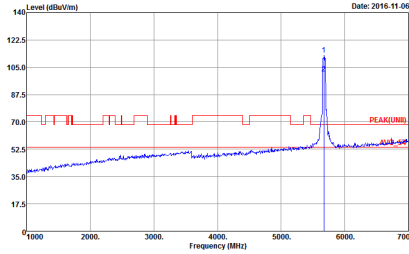
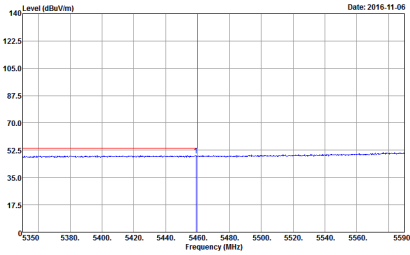


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1+2	Horizontal	Fundamental
Peak	Site : 03CH12-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	Site : 03CH12-HY Condition : PEAK(UNII)_3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	Site : 03CH12-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto : Peak	Left blank

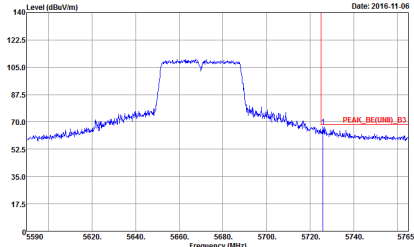


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UMD)_B3 3m HORN 9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UNII)_B3 3m HORN 9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK(UNII)_3m HORN 9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE(UNII)_B3 3m HORN 9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:Auto : Peak	Left blank

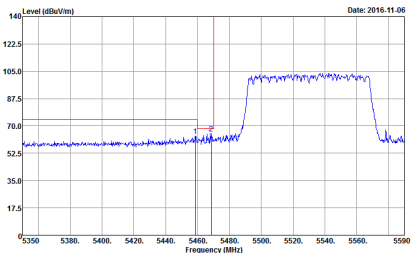
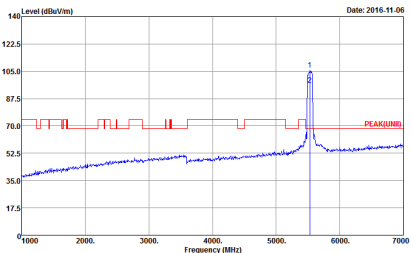
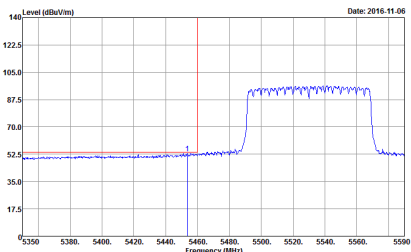


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11n HT40 CH134 5670MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UMD)_B3 3m HORN 9120D_1328 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	Left blank



Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SVT:Auto : Peak	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SVT:Auto : Peak
Avg.	 Site : 03CH12-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:10.000KHz SVT:Auto : Peak	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Horizontal	Fundamental
Peak	Level (dBuV/m) Date: 2016-11-06 Frequency (MHz) Site : 03CH12-HY Condition : PEAK_BE(UMI)_B3 3m HORN 9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto : Peak	Left blank