FCC RADIO TEST REPORT

FCC ID	:	**A4R-H2E**
Equipment	:	**Interactive Internet streaming device**
Model Name	:	**H2E**
Applicant	:	**Google LLC** **1600 Amphitheatre Parkway,** **Mountain View, California, 94043 USA**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Jun. 06, 2019 and testing was started from Jul. 02, 2019 and completed on Aug. 31, 2019. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Louis Wu

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issued Date
FR960638E	01	Initial issue of report	Sep. 05, 2019
FR960638E	02	Update EUT, support unit information and test data and photo.	Sep. 12, 2019
FR960638E	03	Revise the description of EUT supported radio to 802.15.4.	Sep. 20, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 1.52 dB at 5459.120 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 13.34 dB at 0.616 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Jessie Ho

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Interactive Internet streaming device
Model Name	H2E
FCC ID	A4R-H2E
EUT supports Radios application	WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE 802.15.4
HW version	EVT 1.0
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer.

EUT Information List	
No.	S/N
#1	96180EXBSZZ2Y2
#2	98130EXBSZZ2ZH
#3	96180EXBSZZ2YF
#4	98130EXBSZZ157
#5	96190EXBSZZ2RI

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	5150 MHz ~ 5250 MHz 5250 MHz ~ 5350 MHz 5470 MHz ~ 5725 MHz
Maximum Output Power to Antenna for AP Mode <CDD Modes>	**<5150 MHz ~ 5250 MHz>** **MIMO <Ant. 2 + 3>** 802.11a : 24.66 dBm / 0.2924 W 802.11n HT20 : 24.96 dBm / 0.3133 W 802.11n HT40 : 26.06 dBm / 0.4036 W 802.11ac VHT20: 24.86 dBm / 0.3062 W 802.11ac VHT40: 25.96 dBm / 0.3945 W 802.11ac VHT80: 18.86 dBm / 0.0769 W
Maximum Output Power to Antenna for Client Mode <CDD Modes>	**<5150 MHz ~ 5250 MHz>** **MIMO <Ant. 2 + 3>** 802.11a : 18.21 dBm / 0.0662 W 802.11n HT20 : 18.26 dBm / 0.0670 W 802.11n HT40 : 21.91 dBm / 0.1552 W 802.11ac VHT20: 18.16 dBm / 0.0655 W 802.11ac VHT40: 21.81 dBm / 0.1517 W 802.11ac VHT80: 18.91 dBm / 0.0778 W **<5250 MHz ~ 5350 MHz>** **MIMO <Ant. 2 + 3>** 802.11a : 19.51 dBm / 0.0893 W 802.11n HT20 : 19.06 dBm / 0.0805 W 802.11n HT40 : 21.86 dBm / 0.1535 W 802.11ac VHT20: 18.96 dBm / 0.0787 W 802.11ac VHT40: 21.76 dBm / 0.1500 W 802.11ac VHT80: 19.96 dBm / 0.0991 W **<5470 MHz ~ 5725 MHz>** **MIMO <Ant. 2 + 3>** 802.11a : 19.51 dBm / 0.0893 W 802.11n HT20 : 19.21 dBm / 0.0834 W 802.11n HT40 : 22.56 dBm / 0.1803 W 802.11ac VHT20: 19.11 dBm / 0.0815 W 802.11ac VHT40: 22.56 dBm / 0.1803 W 802.11ac VHT80: 23.51 dBm / 0.2244 W
Maximum Output Power for AP Mode <TXBF Modes>	**<5150 MHz ~ 5250 MHz>** **MIMO <Ant. 2 + 3>** 802.11ac VHT20: 24.31 dBm / 0.2698 W 802.11ac VHT40: 24.86 dBm / 0.3062 W 802.11ac VHT80: 19.11 dBm / 0.0815 W

Standards-related Product Specification	
Maximum Output Power for Client Mode <TXBF Modes>	**<5150 MHz ~ 5250 MHz>** **MIMO <Ant. 2 + 3>** 802.11ac VHT20: 18.46 dBm / 0.0701 W 802.11ac VHT40: 18.86 dBm / 0.0769 W 802.11ac VHT80: 19.26 dBm / 0.0843 W **<5250 MHz ~ 5350 MHz>** **MIMO <Ant. 2 + 3>** 802.11ac VHT20: 18.81 dBm / 0.0760 W 802.11ac VHT40: 19.11 dBm / 0.0815 W 802.11ac VHT80: 21.16 dBm / 0.1306 W **<5470 MHz ~ 5725 MHz >** **MIMO <Ant. 2 + 3>** 802.11ac VHT20: 19.51 dBm / 0.0893 W 802.11ac VHT40: 21.56 dBm / 0.1432 W 802.11ac VHT80: 21.56 dBm / 0.1432 W
99% Occupied Bandwidth for AP Mode <CDD Modes>	**MIMO <Ant. 2>** 802.11a : 16.78 MHz 802.11n HT20 : 17.83 MHz 802.11n HT40 : 36.56 MHz 802.11ac VHT80 : 76.96 MHz **MIMO <Ant. 3>** 802.11a : 16.63 MHz 802.11n HT20 : 17.83 MHz 802.11n HT40 : 36.86 MHz 802.11ac VHT80 : 76.84 MHz
99% Occupied Bandwidth for Client Mode <CDD Modes>	**MIMO <Ant. 2>** 802.11a : 16.48 MHz 802.11n HT20 : 17.68 MHz 802.11n HT40 : 36.16 MHz 802.11ac VHT80 : 76.96 MHz **MIMO <Ant. 3>** 802.11a : 16.48 MHz 802.11n HT20 : 17.63 MHz 802.11n HT40 : 36.06 MHz 802.11ac VHT80 : 76.96 MHz
99% Occupied Bandwidth for AP Mode <TXBF Modes>	**MIMO <Ant. 2>** 802.11ac VHT20 : 17.73 MHz 802.11ac VHT40 : 37.26 MHz 802.11ac VHT80 : 77.56 MHz **MIMO <Ant. 3>** 802.11ac VHT20 : 17.73 MHz 802.11ac VHT40 : 37.06 MHz 802.11ac VHT80 : 77.08 MHz

<table>
<tr><th colspan="2">Standards-related Product Specification</th></tr>
<tr><td>99% Occupied Bandwidth
for Client Mode
<TXBF Modes></td><td>MIMO <Ant. 2>
802.11ac VHT20 : 17.68 MHz
802.11ac VHT40 : 36.56 MHz
802.11ac VHT80 : 77.56 MHz
MIMO <Ant. 3>
802.11ac VHT20 : 17.73 MHz
802.11ac VHT40 : 36.66 MHz
802.11ac VHT80 : 77.44 MHz</td></tr>
<tr><td>Antenna Gain / Gain</td><td><5150 MHz ~ 5250 MHz>
Ant. 2: PIFA Antenna with gain 3.65 dBi
Ant. 3: Dipole Antenna with gain 7.48 dBi
<5250 MHz ~ 5350 MHz>
Ant. 2: PIFA Antenna with gain 3.36 dBi
Ant. 3: Dipole Antenna with gain 7.30 dBi
<5470 MHz ~ 5725 MHz >
Ant. 2: PIFA Antenna with gain 4.27 dBi
Ant. 3: Dipole Antenna with gain 6.33 dBi</td></tr>
<tr><td>Type of Modulation</td><td>802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)
802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)</td></tr>
<tr><td>Antenna Function Description</td><td>
<table>
<tr><th></th><th>Ant. 2</th><th>Ant. 3</th></tr>
<tr><td>802.11 a/n/ac MIMO</td><td>V</td><td>V</td></tr>
<tr><td>802.11ac TXBF</td><td>V</td><td>V</td></tr>
</table>
</td></tr>
</table>

Note: MIMO Ant. 2+3 is a calculated result from sum of the power MIMO Ant. 2, MIMO Ant. 3.

1.3 Modification of EUT

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

1.4 Testing Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory		
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan 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	DFS02-HY

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

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
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.**
	03CH13-HY

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

FCC designation No.: TW1190 and TW0007

1.5 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 v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

a. 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: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

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

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

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	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 modes are considering the modulation and worse data rates as below table.

<CDD Mode>

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

<TXBF Mode>

Modulation	Data Rate
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) TX + AC Adapter

Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11a	802.11a	802.11a
L	Low	36	52	100
M	Middle	40	60	116
H	High	48	64	140
Straddle		-	-	144

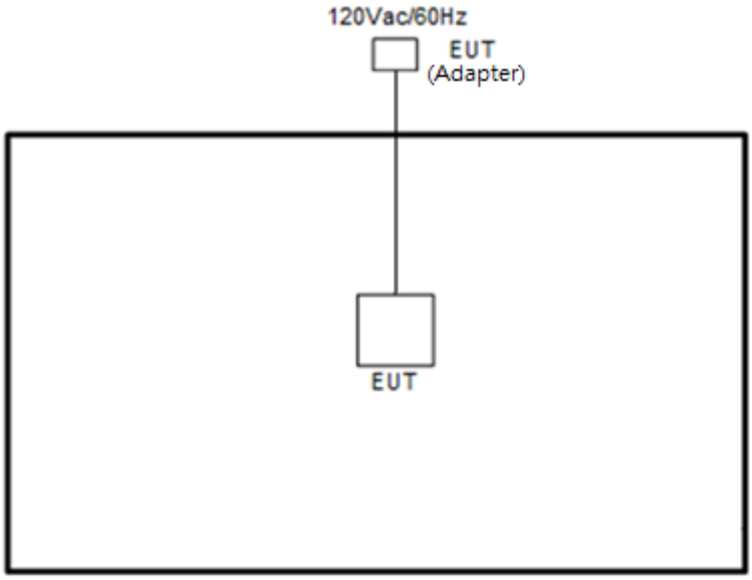
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11n HT20	802.11n HT20	802.11n HT20
L	Low	36	52	100
M	Middle	40	60	116
H	High	48	64	140
Straddle		-	-	144

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

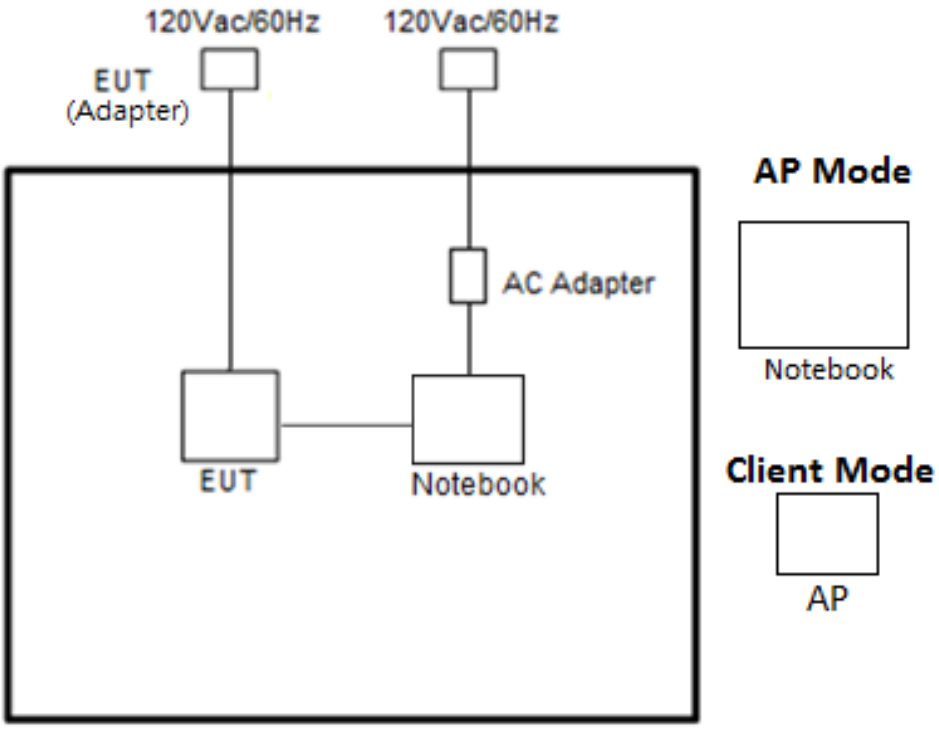
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

2.3 Connection Diagram of Test System

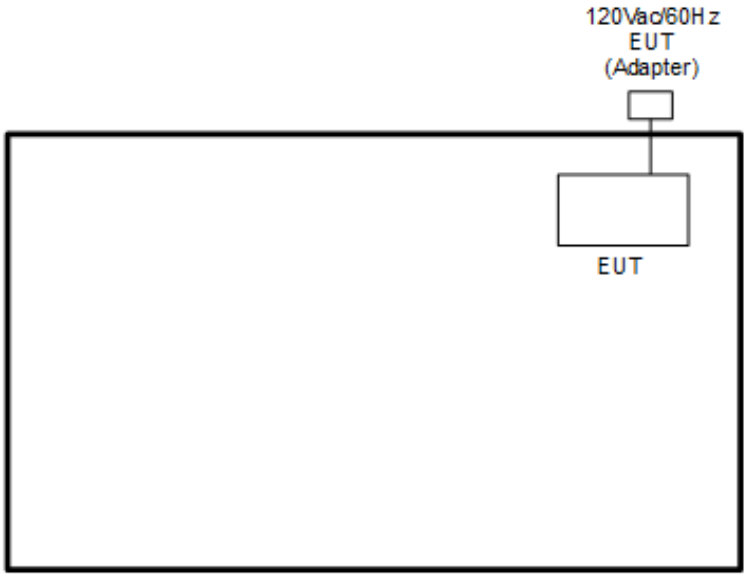
<WIFI TX CDD Mode>



<WIFI TXBF Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Spectrum Analyzer	Agilent	N9030A	N/A	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	NoteBook-31	NA	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	DELL	Latitude E7440	NA	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	AP Router	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT4_ 4.0.00108” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

For TXBF mode, the modulation modes and data rates manipulated by the command lines in the engineering program made the EUT link to another EUT by power under the normal operation. The “CMD” software tool was used to enable the EUT to transmit signals continuously.

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.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

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, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. 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 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

3.1.4 Test Setup

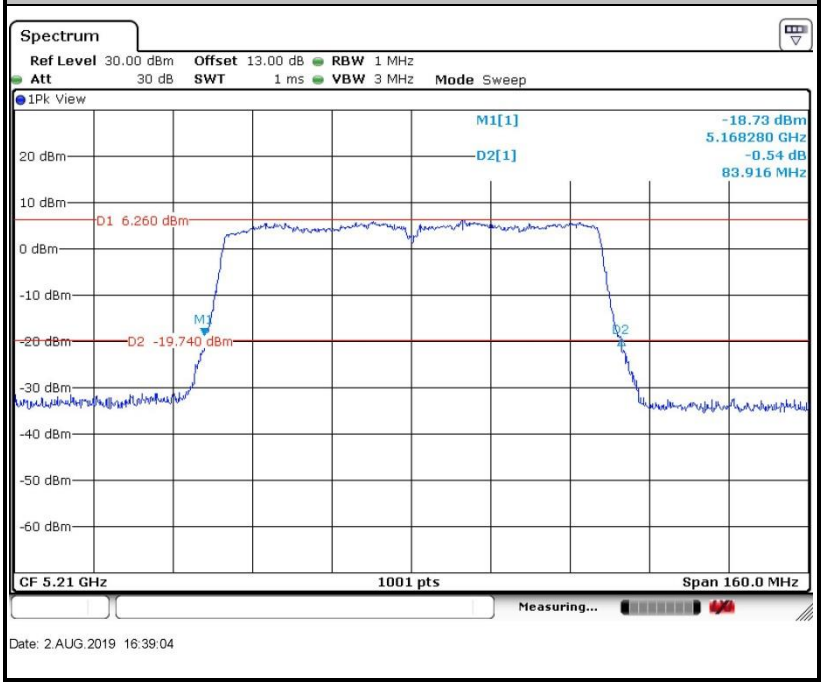
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

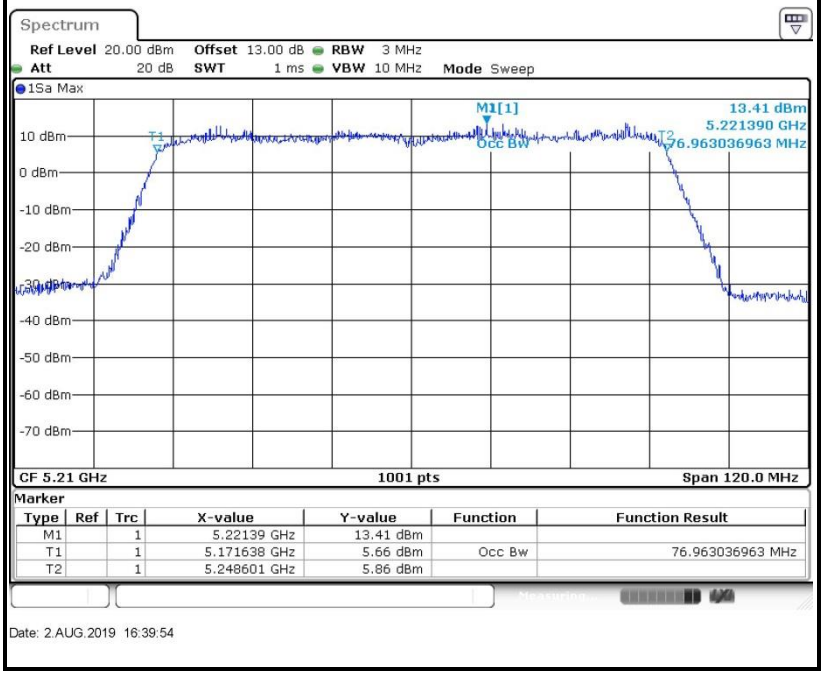
<For AP Mode >

<CDD Mode>

Maximum 26dB Bandwidth



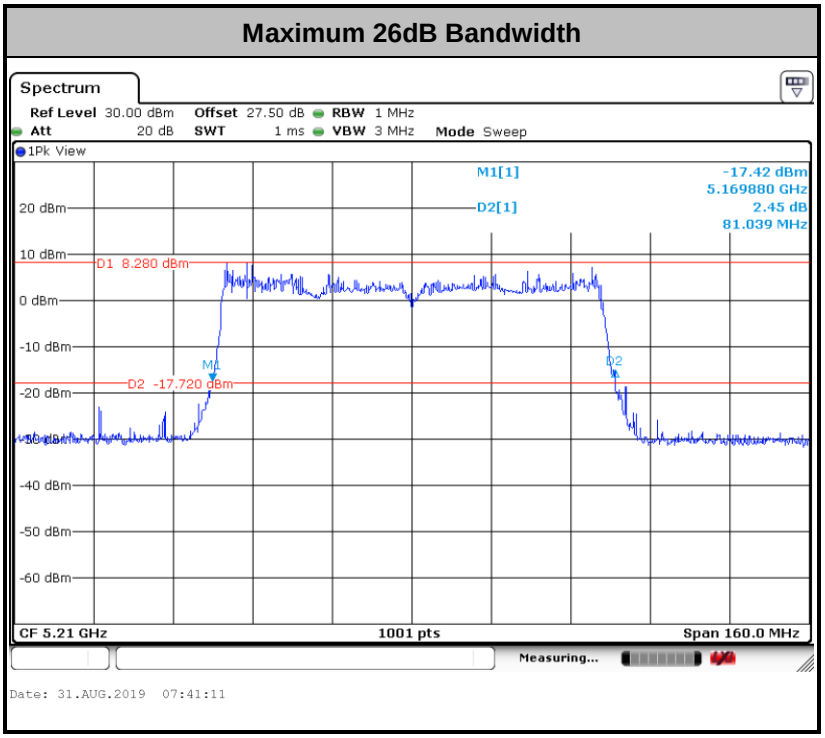
Maximum 99% Occupied Bandwidth



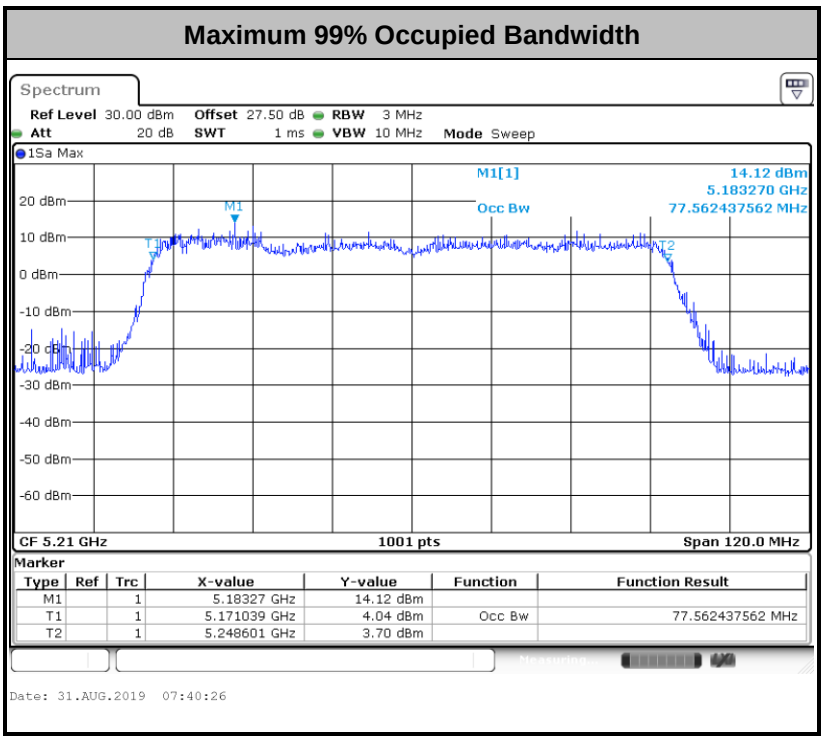
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<TXBF Modes>

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth

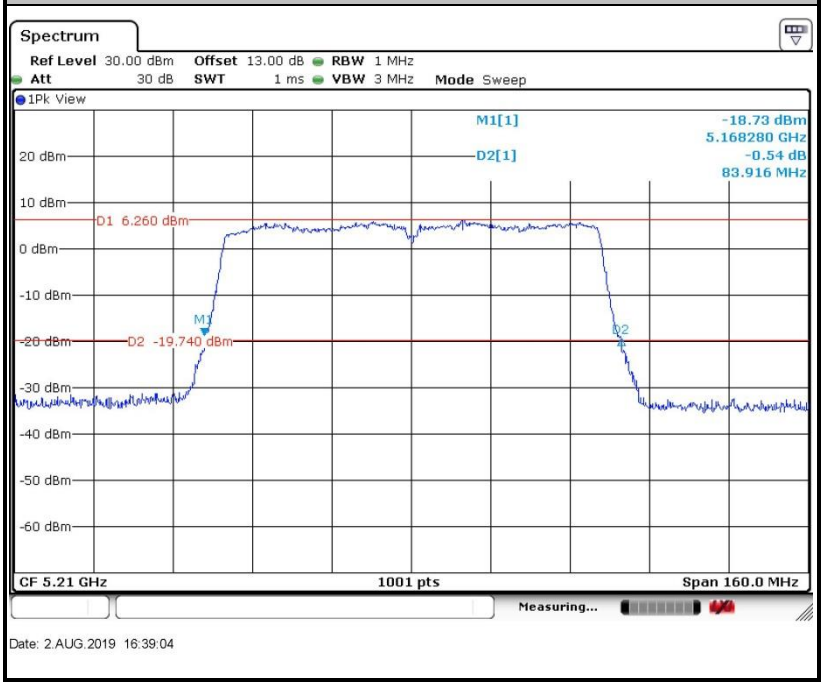


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

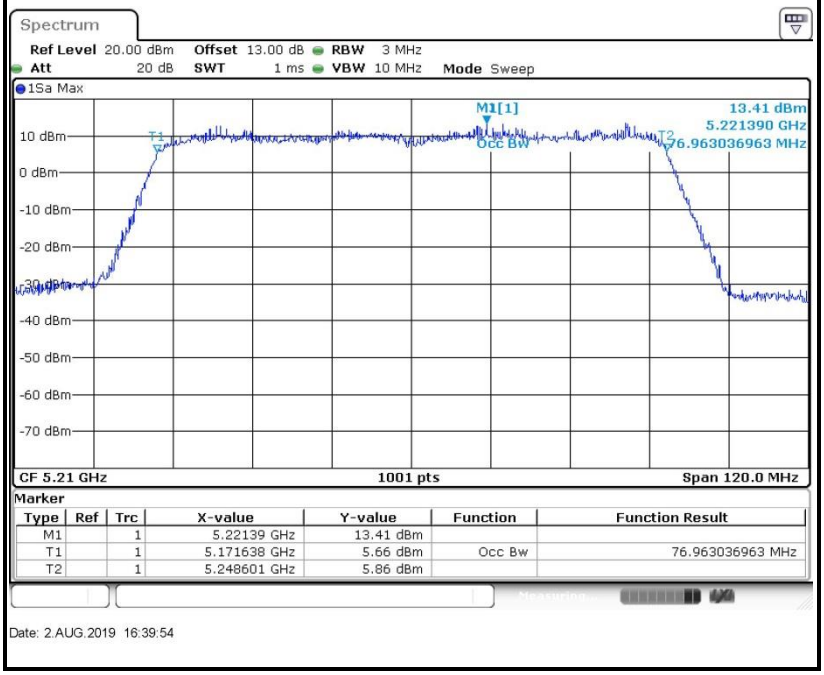
<For Client Mode >

<CDD Mode>

Maximum 26dB Bandwidth



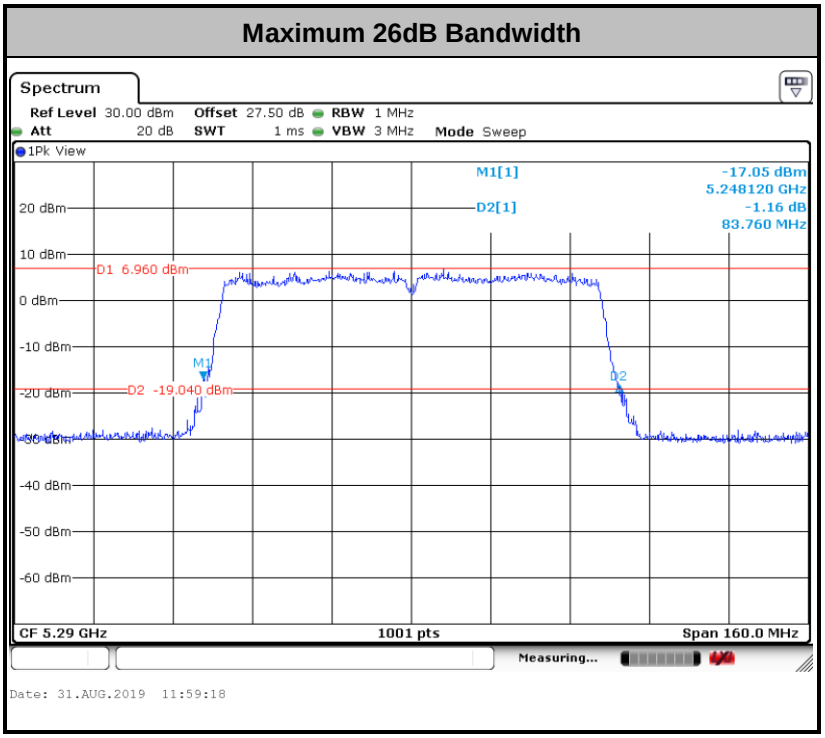
Maximum 99% Occupied Bandwidth



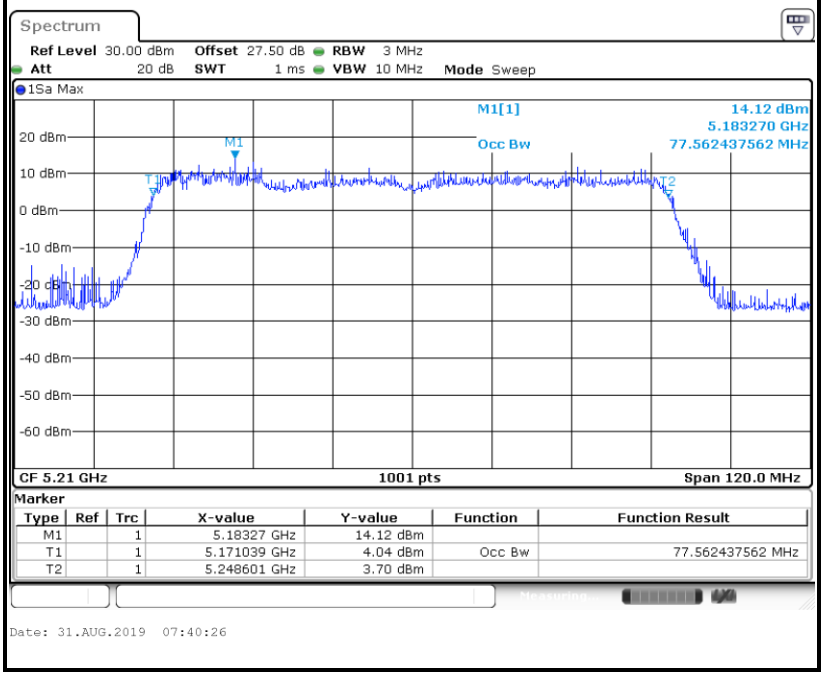
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<TXBF Modes>

Maximum 26dB Bandwidth



Maximum 99% Occupied Bandwidth



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

■ For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

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, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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

See list of measuring equipment of this test report.

3.2.3 Test Procedures

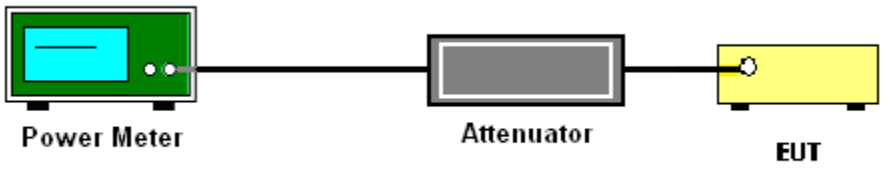
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1.0 MHz band.

For the 5.25–5.725 GHz bands:

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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

See list of measuring equipment of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section F) Maximum power spectral density.

 # 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 ≥ 3 MHz
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × 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 PPSD 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

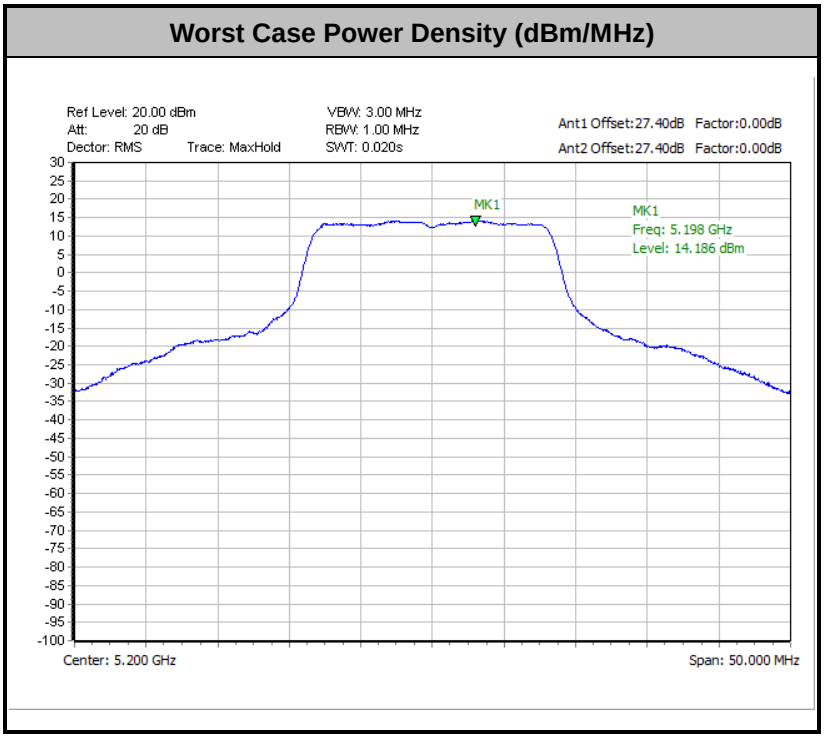
3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

<For AP Mode >

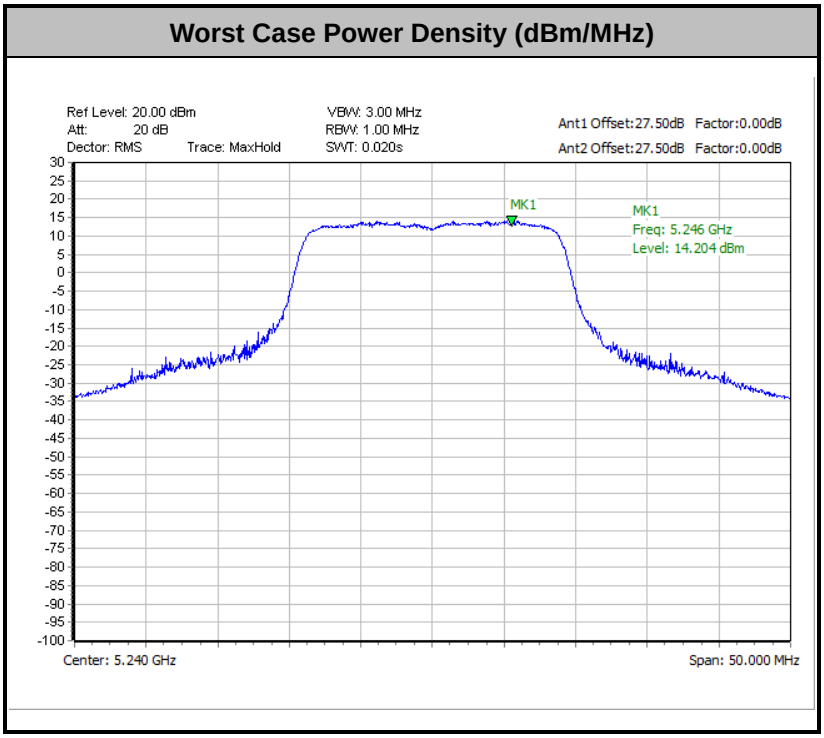
<CDD Modes>

Worst Case Power Density (dBm/MHz)



<TXBF Modes>

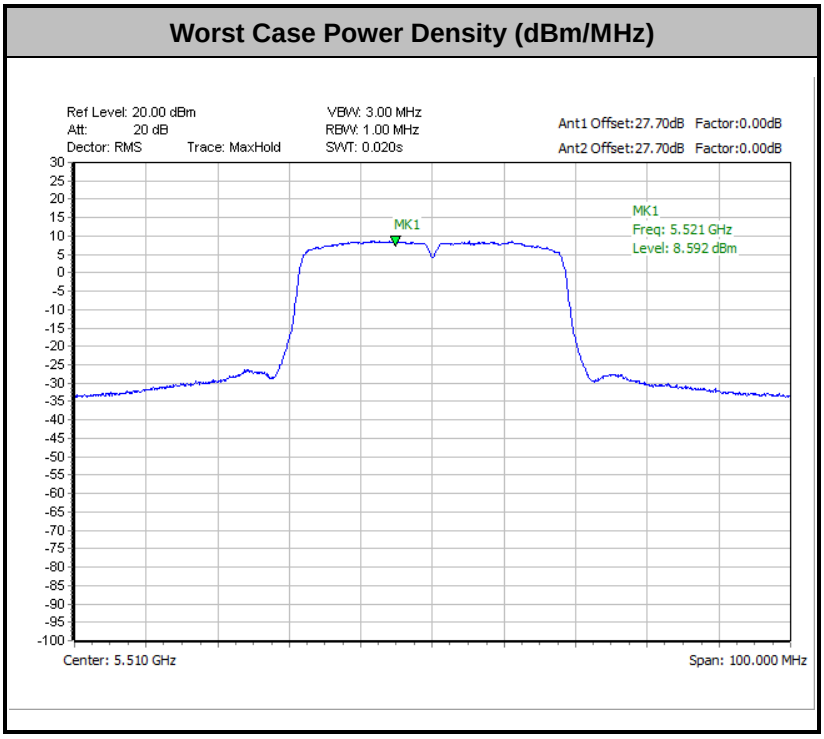
Worst Case Power Density (dBm/MHz)



<For Client Mode >

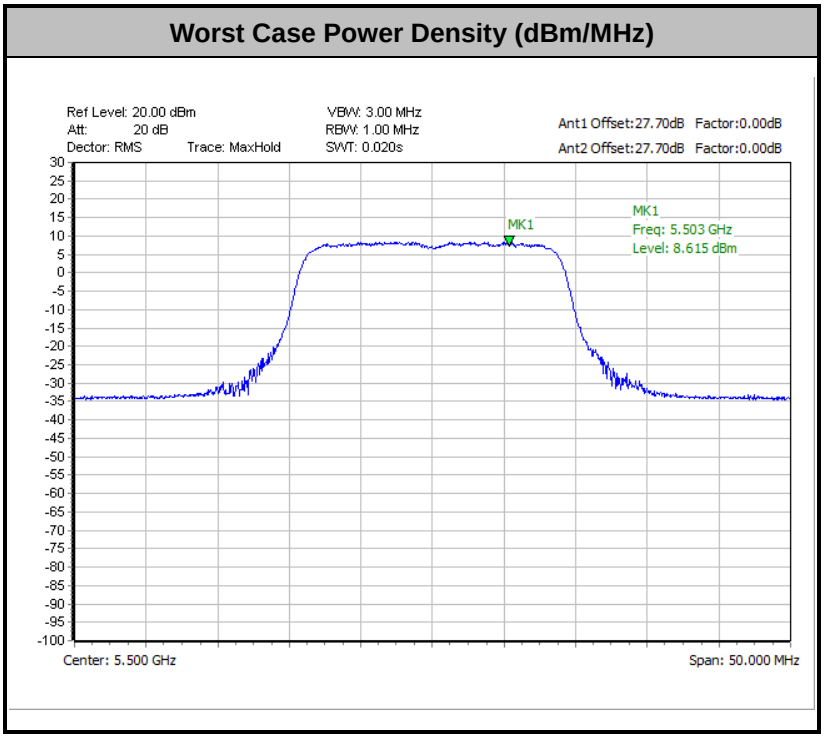
<CDD Modes>

Worst Case Power Density (dBm/MHz)



<TXBF Modes>

Worst Case Power Density (dBm/MHz)



3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.4.1 Limit of Unwanted Emissions

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

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

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

(2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits 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.

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

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

(3) KDB789033 D02 v02r01 G)2)c)

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit 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.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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 ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

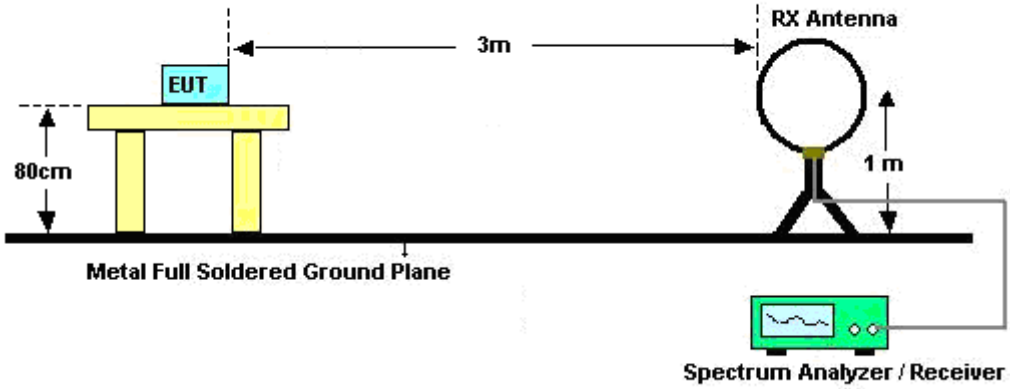
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 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.

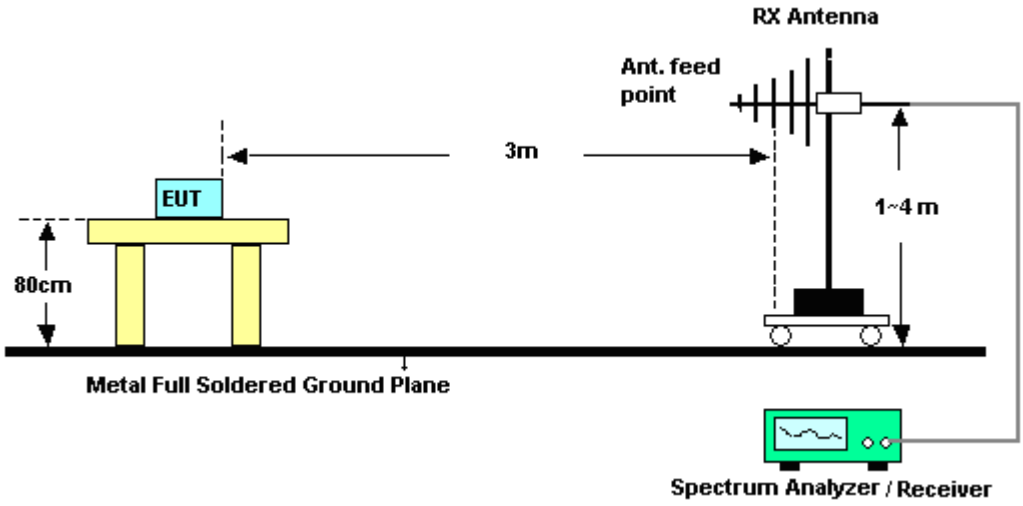
3.4.4 Test Setup

For radiated emissions below 30MHz

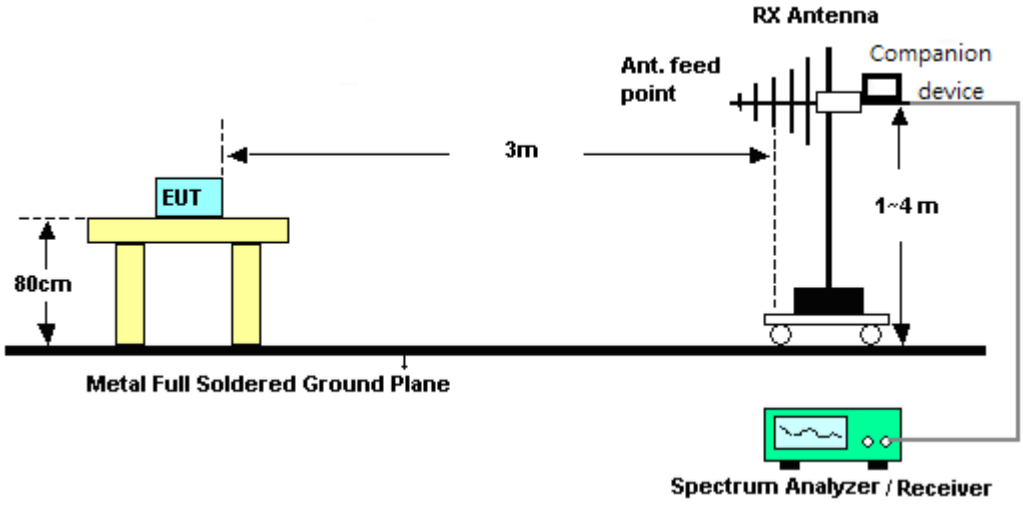


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

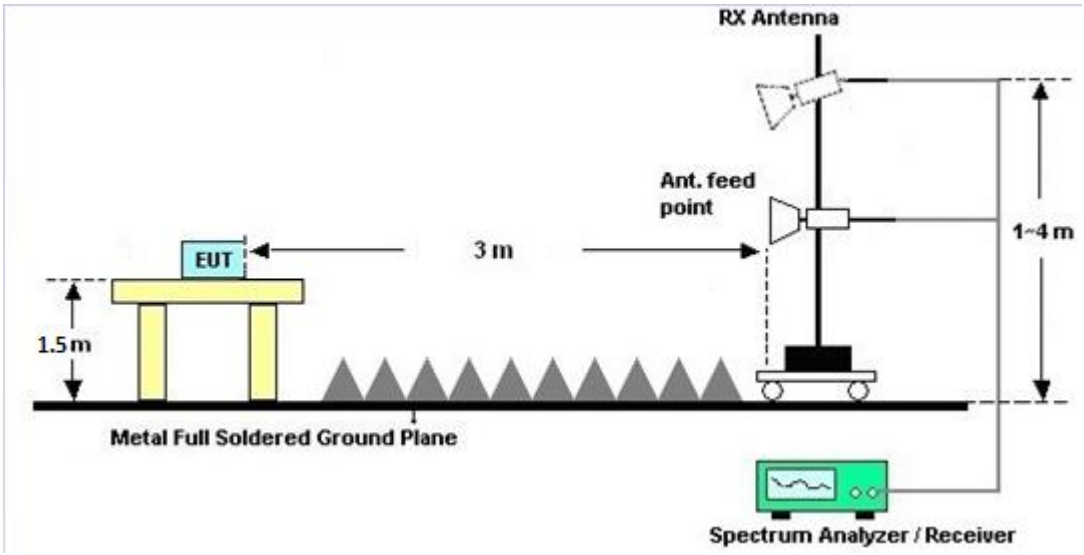


<TXBF Modes>

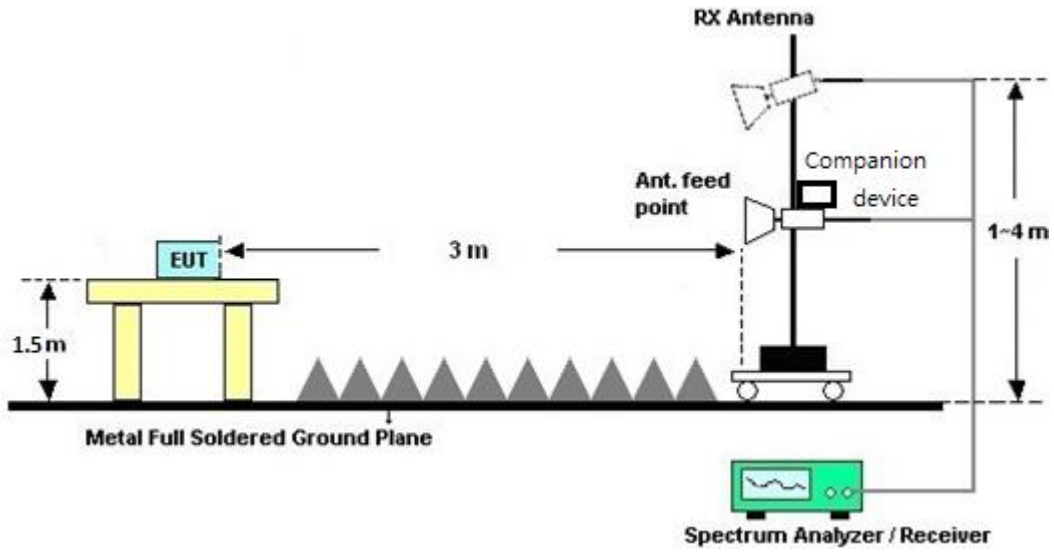


For radiated emissions above 1GHz

<CDD Mode>



<TXBF Modes>



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 was not reported.

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

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 (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

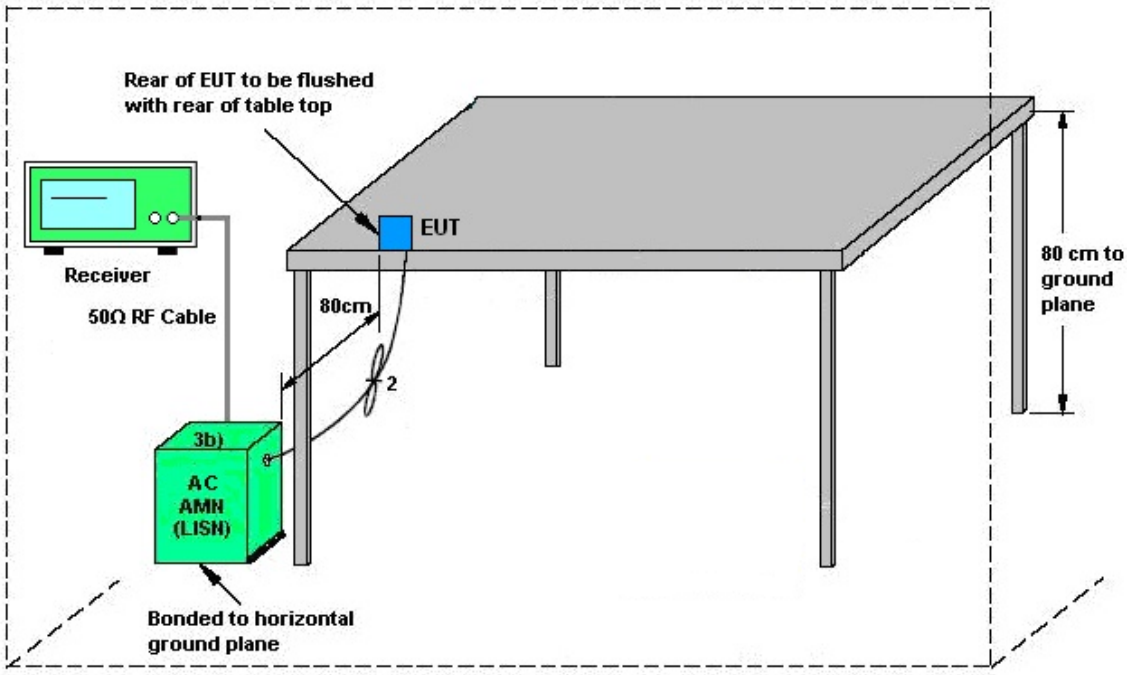
3.5.2 Measuring Instruments

See list of measuring equipment 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



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Automatically Discontinue Transmission

3.6.1 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.

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

EUT is verified this characteristic during the function check of normal sample associated with an access point:

A. Information start: make EUT supply information to the access point.

B. Information stop: stop supplying information to the access point.

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

C. Information start: make EUT supply information to the access point again.

The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

5180MHz

Note: The control / signalling information during the period B is precluded.

3.7 Antenna Requirements

3.7.1 Standard Applicable

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.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

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

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

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

The EUT supports CDD mode.

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)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.

<CDD Modes>

	Ant. 2 (dBi)	Ant. 3 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	3.65	7.48	7.48	8.78	1.48	2.78
Band II	3.36	7.30	7.30	8.56	1.30	2.56
Band III	4.27	6.33	6.33	8.37	0.33	2.37

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 kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The EUT supports beamforming for 802.11ac modes.

The directional gain calculation is following F)2)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.

	Ant 2 (dBi)	Ant 3 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	3.65	7.48	8.78	8.78	2.78	2.78
Band II	3.36	7.30	8.56	8.56	2.56	2.56
Band III	4.27	6.33	8.37	8.37	2.37	2.37

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
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 26, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 12, 2018	Jul. 26, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Jul. 26, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Jul. 26, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 26, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Jul. 26, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Jul. 26, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Power Sensor	DARE	RPR3006W	13I00030SNO32	9kHz~6GHz	Dec. 03, 2018	Jul. 16, 2019~ Aug. 31, 2019	Dec. 02, 2019	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO10	10MHz~6GHz	Dec. 19, 2018	Jul. 16, 2019~ Aug. 31, 2019	Dec. 18 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2018	Jul. 16, 2019~ Aug. 31, 2019	Nov. 20, 2019	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 13, 2018	Jul. 16, 2019~ Aug. 31, 2019	Nov. 12, 2019	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1208382	N/A	Mar. 27, 2019	Jul. 16, 2019~ Aug. 31, 2019	Mar. 26, 2020	Conducted (TH05-HY)

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 07, 2019	Jul. 02, 2019~ Aug. 29, 2019	Jan. 06, 2020	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1212	1GHz ~ 18GHz	May 14, 2019	Jul. 02, 2019~ Aug. 29, 2019	May 13, 2020	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800N1D01N-06	37059&01	30MHz~1GHz	Oct. 13, 2018	Jul. 02, 2019~ Aug. 29, 2019	Oct. 12, 2019	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Dec. 05, 2018	Jul. 02, 2019~ Aug. 29, 2019	Dec. 04, 2019	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 14, 2018	Jul. 02, 2019~ Aug. 29, 2019	Nov. 13, 2020	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590074	1GHz~18GHz	May 20, 2019	Jul. 02, 2019~ Aug. 29, 2019	May 19, 2020	Radiation (03CH13-HY)
Amplifier	Sonoma-Instrument	310 N	187282	9KHz~1GHz	Dec. 18, 2018	Jul. 02, 2019~ Aug. 29, 2019	Dec. 17, 2019	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 06, 2018	Jul. 02, 2019~ Aug. 29, 2019	Dec. 05, 2019	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30M-18G	Feb. 13, 2019	Jul. 02, 2019~ Aug. 29, 2019	Feb. 12, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30M-18G	Feb. 13, 2019	Jul. 02, 2019~ Aug. 29, 2019	Feb. 12, 2020	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30M-18G	Feb. 13, 2019	Jul. 02, 2019~ Aug. 29, 2019	Feb. 12, 2020	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Mar. 19, 2019	Jul. 02, 2019~ Aug. 29, 2019	Mar. 18, 2020	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jul. 02, 2019~ Aug. 29, 2019	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jul. 02, 2019~ Aug. 29, 2019	N/A	Radiation (03CH13-HY)
Software	AUDIX	E3 6.2009-8-24c	RK-001124	N/A	N/A	Jul. 02, 2019~ Aug. 29, 2019	N/A	Radiation (03CH13-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY54130085	20Hz ~ 8.4GHz	Nov. 01, 2018	Jul. 02, 2019~ Aug. 29, 2019	Oct. 31, 2019	Radiation (03CH13-HY)
Filter	Woken	WHKX8-5272.5-6750-18000-40ST	SN5	6.75G Highpass	Mar.13, 2019	Jul. 02, 2019~ Aug. 29, 2019	Mar. 12, 2020	Radiation (03CH13-HY)
Filter	Wainwright	WLKS1200-8SS	SN3	1.2G Low Pass	Nov. 02, 2018	Jul. 02, 2019~ Aug. 29, 2019	Nov. 01, 2019	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY56070412	10Hz~7GHz	Aug. 16, 2018	Aug. 12, 2019	Aug. 15, 2019	DFS (DFS02-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.2**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.9**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.4**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.3**

Appendix A. Test Result of Conducted Test Items

<CDD for AP Mode>

Test Engineer:	CreedWu	Temperature:	21~25	°C
Test Date:	2019/7/16~2019/8/4	Relative Humidity:	51~54	%

Report Number : FR960638E

TEST RESULTS DATA
26dB and 99% OBW

Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3		
11a	6Mbps	2	36	5180	16.78	16.63	25.57	22.38	-		22.21			
11a	6Mbps	2	40	5200	16.68	16.63	22.58	23.13	-		22.21			
11a	6Mbps	2	48	5240	16.63	16.63	21.93	21.93	-		22.21			
HT20	MCS0	2	36	5180	17.78	17.83	26.87	26.72	-		22.50			
HT20	MCS0	2	40	5200	17.83	17.78	23.68	26.22	-		22.50			
HT20	MCS0	2	48	5240	17.73	17.73	22.48	22.13	-		22.49			
HT40	MCS0	2	38	5190	36.16	35.96	40.37	40.01	-		23.01			
HT40	MCS0	2	46	5230	36.56	36.86	72.92	76.42	-		23.01			
VHT80	MCS0	2	42	5210	76.96	76.84	83.92	83.44	-		23.01			

TEST RESULTS DATA
Average Power Table

FCC Band I													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 2	Ant 3	SUM	Ant 2	Ant 3	Ant 2	Ant 3		
11a	6Mbps	2	36	5180	21.20	21.30	24.26	28.52		7.48			Pass
11a	6Mbps	2	40	5200	21.70	21.60	24.66	28.52		7.48			Pass
11a	6Mbps	2	48	5240	21.50	21.70	24.61	28.52		7.48			Pass
HT20	MCS0	2	36	5180	21.80	21.90	24.86	28.52		7.48			Pass
HT20	MCS0	2	40	5200	22.00	21.90	24.96	28.52		7.48			Pass
HT20	MCS0	2	48	5240	21.70	21.80	24.76	28.52		7.48			Pass
HT40	MCS0	2	38	5190	17.20	17.30	20.26	28.52		7.48			Pass
HT40	MCS0	2	46	5230	23.00	23.10	26.06	28.52		7.48			Pass
VHT20	MCS0	2	36	5180	21.70	21.80	24.76	28.52		7.48			Pass
VHT20	MCS0	2	40	5200	21.90	21.80	24.86	28.52		7.48			Pass
VHT20	MCS0	2	48	5240	21.60	21.70	24.66	28.52		7.48			Pass
VHT40	MCS0	2	38	5190	17.10	17.20	20.16	28.52		7.48			Pass
VHT40	MCS0	2	46	5230	22.90	23.00	25.96	28.52		7.48			Pass
VHT80	MCS0	2	42	5210	15.80	15.90	18.86	28.52		7.48			Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					SUM	Ant 2	Ant 3	Ant 2	Ant 3		
11a	6Mbps	2	36	5180	13.60	14.22		8.78			Pass
11a	6Mbps	2	40	5200	14.19	14.22		8.78			Pass
11a	6Mbps	2	48	5240	13.74	14.22		8.78			Pass
HT20	MCS0	2	36	5180	14.06	14.22		8.78			Pass
HT20	MCS0	2	40	5200	14.10	14.22		8.78			Pass
HT20	MCS0	2	48	5240	14.03	14.22		8.78			Pass
HT40	MCS0	2	38	5190	6.38	14.22		8.78			Pass
HT40	MCS0	2	46	5230	12.17	14.22		8.78			Pass
VHT80	MCS0	2	42	5210	1.51	14.22		8.78			Pass

<CDD for Client Model>

Test Engineer:	CreedWu	Temperature:	21~25	°C
Test Date:	2019/7/16~2019/8/4	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3		
11a	6Mbps	2	36	5180	16.43	16.48	20.98	20.83	-		22.16			
11a	6Mbps	2	40	5200	16.48	16.48	21.08	20.88	-		22.17			
11a	6Mbps	2	48	5240	16.43	16.48	20.88	20.98	-		22.16			
HT20	MCS0	2	36	5180	17.68	17.63	21.68	21.58	-		22.46			
HT20	MCS0	2	40	5200	17.63	17.63	21.83	21.53	-		22.46			
HT20	MCS0	2	48	5240	17.63	17.63	21.78	21.58	-		22.46			
HT40	MCS0	2	38	5190	36.16	35.96	40.37	40.01	-		23.01			
HT40	MCS0	2	46	5230	36.06	35.96	40.01	40.01	-		23.01			
VHT80	MCS0	2	42	5210	76.96	76.84	83.92	83.44	-		23.01			

TEST RESULTS DATA
Average Power Table

FCC Band I													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 2	Ant 3	SUM	Ant 2	Ant 3	Ant 2	Ant 3		
11a	6Mbps	2	36	5180	15.10	14.90	18.01	22.52		7.48			Pass
11a	6Mbps	2	40	5200	15.30	15.10	18.21	22.52		7.48			Pass
11a	6Mbps	2	48	5240	15.10	14.80	17.96	22.52		7.48			Pass
HT20	MCS0	2	36	5180	15.40	15.10	18.26	22.52		7.48			Pass
HT20	MCS0	2	40	5200	15.30	15.20	18.26	22.52		7.48			Pass
HT20	MCS0	2	48	5240	15.00	15.00	18.01	22.52		7.48			Pass
HT40	MCS0	2	38	5190	17.60	17.30	20.46	22.52		7.48			Pass
HT40	MCS0	2	46	5230	18.90	18.90	21.91	22.52		7.48			Pass
VHT20	MCS0	2	36	5180	15.30	15.00	18.16	22.52		7.48			Pass
VHT20	MCS0	2	40	5200	15.20	15.10	18.16	22.52		7.48			Pass
VHT20	MCS0	2	48	5240	14.90	14.90	17.91	22.52		7.48			Pass
VHT40	MCS0	2	38	5190	17.50	17.20	20.36	22.52		7.48			Pass
VHT40	MCS0	2	46	5230	18.80	18.80	21.81	22.52		7.48			Pass
VHT80	MCS0	2	42	5210	15.90	15.90	18.91	22.52		7.48			Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					SUM	Ant 2	Ant 3	Ant 2	Ant 3		
11a	6Mbps	2	36	5180	7.91	8.22		8.78			Pass
11a	6Mbps	2	40	5200	7.68	8.22		8.78			Pass
11a	6Mbps	2	48	5240	7.94	8.22		8.78			Pass
HT20	MCS0	2	36	5180	8.12	8.22		8.78			Pass
HT20	MCS0	2	40	5200	7.83	8.22		8.78			Pass
HT20	MCS0	2	48	5240	8.01	8.22		8.78			Pass
HT40	MCS0	2	38	5190	6.32	8.22		8.78			Pass
HT40	MCS0	2	46	5230	8.06	8.22		8.78			Pass
VHT80	MCS0	2	42	5210	1.51	8.22		8.78			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3	
11a	6Mbps	2	52	5260	16.48	16.48	21.08	21.08	23.17		29.17		23.98		
11a	6Mbps	2	60	5300	16.48	16.48	21.03	21.08	23.17		29.17		23.98		
11a	6Mbps	2	64	5320	16.48	16.48	21.03	21.03	23.17		29.17		23.98		
HT20	MCS0	2	52	5260	17.63	17.63	21.63	21.68	23.46		29.46		23.98		
HT20	MCS0	2	60	5300	17.63	17.63	21.73	21.63	23.46		29.46		23.98		
HT20	MCS0	2	64	5320	17.63	17.63	21.58	21.68	23.46		29.46		23.98		
HT40	MCS0	2	54	5270	36.06	36.06	40.28	39.92	23.98		30.00		23.98		
HT40	MCS0	2	62	5310	36.06	35.96	40.37	39.92	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	76.96	76.96	83.28	83.60	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
					Ant 2	Ant 3	SUM	Ant 2	Ant 3	Ant 2	Ant 3		
11a	6Mbps	2	52	5260	16.10	16.00	19.06	22.68		7.30		30	Pass
11a	6Mbps	2	60	5300	16.50	16.30	19.41	22.68		7.30		30	Pass
11a	6Mbps	2	64	5320	16.60	16.40	19.51	22.68		7.30		30	Pass
HT20	MCS0	2	52	5260	15.70	15.60	18.66	22.68		7.30		30	Pass
HT20	MCS0	2	60	5300	16.20	15.90	19.06	22.68		7.30		30	Pass
HT20	MCS0	2	64	5320	15.80	15.40	18.61	22.68		7.30		30	Pass
HT40	MCS0	2	54	5270	18.90	18.80	21.86	22.68		7.30		30	Pass
HT40	MCS0	2	62	5310	18.70	18.30	21.51	22.68		7.30		30	Pass
VHT20	MCS0	2	52	5260	15.60	15.50	18.56	22.68		7.30		30	Pass
VHT20	MCS0	2	60	5300	16.10	15.80	18.96	22.68		7.30		30	Pass
VHT20	MCS0	2	64	5320	15.70	15.30	18.51	22.68		7.30		30	Pass
VHT40	MCS0	2	54	5270	18.80	18.70	21.76	22.68		7.30		30	Pass
VHT40	MCS0	2	62	5310	18.60	18.30	21.46	22.68		7.30		30	Pass
VHT80	MCS0	2	58	5290	17.10	16.80	19.96	22.68		7.30		30	Pass

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
					SUM	Ant 2	Ant 3	Ant 2	Ant 3		
11a	6Mbps	2	52	5260	8.22	8.44		8.56			Pass
11a	6Mbps	2	60	5300	8.23	8.44		8.56			Pass
11a	6Mbps	2	64	5320	8.06	8.44		8.56			Pass
HT20	MCS0	2	52	5260	8.16	8.44		8.56			Pass
HT20	MCS0	2	60	5300	7.97	8.44		8.56			Pass
HT20	MCS0	2	64	5320	8.09	8.44		8.56			Pass
HT40	MCS0	2	54	5270	8.06	8.44		8.56			Pass
HT40	MCS0	2	62	5310	7.83	8.44		8.56			Pass
VHT80	MCS0	2	58	5290	2.83	8.44		8.56			Pass

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TEST RESULTS DATA
26dB and 99% OBW

Band III																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3
11a	6Mbps	2	100	5500	16.48	16.48	20.88	21.08	23.17		29.17		23.98		----	----
11a	6Mbps	2	116	5580	16.48	16.48	20.98	21.03	23.17		29.17		23.98		----	----
11a	6Mbps	2	140	5700	16.48	16.43	20.98	20.93	23.16		29.16		23.98		----	----
11a	6Mbps	2	144	5720	13.29	13.29	15.59	15.49	22.24		28.24		22.90		3.194	3.194
HT20	MCS0	2	100	5500	17.63	17.63	21.68	21.73	23.46		29.46		23.98		----	----
HT20	MCS0	2	116	5580	17.63	17.63	21.58	21.53	23.46		29.46		23.98		----	----
HT20	MCS0	2	140	5700	17.68	17.58	21.73	21.48	23.45		29.45		23.98		----	----
HT20	MCS0	2	144	5720	13.84	13.84	15.99	15.74	22.41		28.41		22.97		3.792	3.194
HT40	MCS0	2	102	5510	36.06	36.06	40.46	40.10	23.98		30.00		23.98		----	----
HT40	MCS0	2	110	5550	36.16	36.06	40.46	40.19	23.98		30.00		23.98		----	----
HT40	MCS0	2	134	5670	35.96	36.06	40.28	40.28	23.98		30.00		23.98		----	----
HT40	MCS0	2	142	5710	33.08	32.98	35.32	35.14	23.98		30.00		23.98		2.533	2.533
VHT80	MCS0	2	106	5530	76.84	76.96	83.76	83.28	23.98		30.00		23.98		----	----
VHT80	MCS0	2	122	5610	76.96	76.96	83.92	83.28	23.98		30.00		23.98		----	----
VHT80	MCS0	2	138	5690	73.72	73.60	77.04	76.88	23.98		30.00		23.98		2.564	2.565

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
					Ant 2	Ant 3	SUM	Ant 2	Ant 3	Ant 2	Ant 3		
11a	6Mbps	2	100	5500	16.40	16.30	19.36	23.65		6.33		30	Pass
11a	6Mbps	2	116	5580	16.20	15.90	19.06	23.65		6.33		30	Pass
11a	6Mbps	2	140	5700	16.50	16.50	19.51	23.65		6.33		30	Pass
11a	6Mbps	2	144	5720	16.50	16.40	19.46	22.57		6.33		30	Pass
HT20	MCS0	2	100	5500	16.00	16.00	19.01	23.65		6.33		30	Pass
HT20	MCS0	2	116	5580	16.30	16.10	19.21	23.65		6.33		30	Pass
HT20	MCS0	2	140	5700	16.30	16.00	19.16	23.65		6.33		30	Pass
HT20	MCS0	2	144	5720	16.00	16.10	19.06	22.64		6.33		30	Pass
HT40	MCS0	2	102	5510	19.60	19.50	22.56	23.65		6.33		30	Pass
HT40	MCS0	2	110	5550	19.30	19.20	22.26	23.65		6.33		30	Pass
HT40	MCS0	2	134	5670	19.10	19.00	22.06	23.65		6.33		30	Pass
HT40	MCS0	2	142	5710	19.00	19.00	22.01	23.65		6.33		30	Pass
VHT20	MCS0	2	100	5500	15.90	15.90	18.91	23.65		6.33		30	Pass
VHT20	MCS0	2	116	5580	16.20	16.00	19.11	23.65		6.33		30	Pass
VHT20	MCS0	2	140	5700	16.20	15.90	19.06	23.65		6.33		30	Pass
VHT20	MCS0	2	144	5720	15.90	16.00	18.96	22.64		6.33		30	Pass
VHT40	MCS0	2	102	5510	19.70	19.40	22.56	23.65		6.33		30	Pass
VHT40	MCS0	2	110	5550	19.20	19.10	22.16	23.65		6.33		30	Pass
VHT40	MCS0	2	134	5670	19.00	18.90	21.96	23.65		6.33		30	Pass
VHT40	MCS0	2	142	5710	18.90	18.90	21.91	23.65		6.33		30	Pass
VHT80	MCS0	2	106	5530	16.00	15.80	18.91	23.65		6.33		30	Pass
VHT80	MCS0	2	122	5610	19.70	19.30	22.51	23.65		6.33		30	Pass
VHT80	MCS0	2	138	5690	20.50	20.50	23.51	23.65		6.33		30	Pass

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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
					SUM	Ant 2	Ant 3	Ant 2	Ant 3		
11a	6Mbps	2	100	5500	8.38	8.63		8.37			Pass
11a	6Mbps	2	116	5580	8.23	8.63		8.37			Pass
11a	6Mbps	2	140	5700	8.35	8.63		8.37			Pass
11a	6Mbps	2	144	5720	8.53	8.63		8.37			Pass
HT20	MCS0	2	100	5500	8.07	8.63		8.37			Pass
HT20	MCS0	2	116	5580	8.33	8.63		8.37			Pass
HT20	MCS0	2	140	5700	8.13	8.63		8.37			Pass
HT20	MCS0	2	144	5720	8.37	8.63		8.37			Pass
HT40	MCS0	2	102	5510	8.59	8.63		8.37			Pass
HT40	MCS0	2	110	5550	8.27	8.63		8.37			Pass
HT40	MCS0	2	134	5670	8.04	8.63		8.37			Pass
HT40	MCS0	2	142	5710	8.09	8.63		8.37			Pass
VHT80	MCS0	2	106	5530	1.68	8.63		8.37			Pass
VHT80	MCS0	2	122	5610	5.61	8.63		8.37			Pass
VHT80	MCS0	2	138	5690	6.46	8.63		8.37			Pass

<TXBF for AP Mode>

Test Engineer:	Howard Lin	Temperature:	21~25	°C
Test Date:	2019/8/28~2019/8/31	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3		
VHT20	MCS0	2	36	5180	17.63	17.68	22.08	23.53	-		22.46			
VHT20	MCS0	2	40	5200	17.63	17.68	22.68	22.38	-		22.46			
VHT20	MCS0	2	48	5240	17.73	17.73	23.53	22.48	-		22.49			
VHT40	MCS0	2	38	5190	36.26	36.36	41.90	40.37	-		23.01			
VHT40	MCS0	2	46	5230	37.26	37.06	55.30	53.59	-		23.01			
VHT80	MCS0	2	42	5210	77.56	77.08	81.04	80.88	-		23.01			

TEST RESULTS DATA
Average Power Table

FCC Band I													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 2	Ant 3	SUM	Ant 2	Ant 3	Ant 2	Ant 3		
VHT20	MCS0	2	36	5180	21.00	21.30	24.16	27.22		8.78			Pass
VHT20	MCS0	2	40	5200	21.10	21.40	24.26	27.22		8.78			Pass
VHT20	MCS0	2	48	5240	21.20	21.40	24.31	27.22		8.78			Pass
VHT40	MCS0	2	38	5190	17.80	18.30	21.07	27.22		8.78			Pass
VHT40	MCS0	2	46	5230	21.80	21.90	24.86	27.22		8.78			Pass
VHT80	MCS0	2	42	5210	16.00	16.20	19.11	27.22		8.78			Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					SUM	Ant 2	Ant 3	Ant 2	Ant 3		
VHT20	MCS0	2	36	5180	13.62	14.22		8.78			Pass
VHT20	MCS0	2	40	5200	13.86	14.22		8.78			Pass
VHT20	MCS0	2	48	5240	14.20	14.22		8.78			Pass
VHT40	MCS0	2	38	5190	10.96	14.22		8.78			Pass
VHT40	MCS0	2	46	5230	13.76	14.22		8.78			Pass
VHT80	MCS0	2	42	5210	6.05	14.22		8.78			Pass

<TXBF for Client Mode>

Test Engineer:	Howard Lin	Temperature:	21~25	°C
Test Date:	2019/8/28~2019/8/31	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3		
VHT20	MCS0	2	36	5180	17.73	17.63	23.03	21.38	-		22.46			
VHT20	MCS0	2	40	5200	17.73	17.68	22.83	21.53	-		22.48			
VHT20	MCS0	2	48	5240	17.63	17.63	21.58	23.18	-		22.46			
VHT40	MCS0	2	38	5190	36.36	36.66	41.63	40.37	-		23.01			
VHT40	MCS0	2	46	5230	36.56	36.66	42.98	41.90	-		23.01			
VHT80	MCS0	2	42	5210	77.56	77.08	81.04	80.88	-		23.01			

TEST RESULTS DATA
Average Power Table

FCC Band I													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 2	Ant 3	SUM	Ant 2	Ant 3	Ant 2	Ant 3		
VHT20	MCS0	2	36	5180	15.40	15.50	18.46	21.22		8.78			Pass
VHT20	MCS0	2	40	5200	14.60	14.60	17.61	21.22		8.78			Pass
VHT20	MCS0	2	48	5240	14.90	14.80	17.86	21.22		8.78			Pass
VHT40	MCS0	2	38	5190	15.80	15.90	18.86	21.22		8.78			Pass
VHT40	MCS0	2	46	5230	15.30	15.40	18.36	21.22		8.78			Pass
VHT80	MCS0	2	42	5210	16.20	16.30	19.26	21.22		8.78			Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)	Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					SUM	Ant 2	Ant 3	Ant 2	Ant 3		
VHT20	MCS0	2	36	5180	8.10	8.22		8.78			Pass
VHT20	MCS0	2	40	5200	7.59	8.22		8.78			Pass
VHT20	MCS0	2	48	5240	7.58	8.22		8.78			Pass
VHT40	MCS0	2	38	5190	8.00	8.22		8.78			Pass
VHT40	MCS0	2	46	5230	8.20	8.22		8.78			Pass
VHT80	MCS0	2	42	5210	6.05	8.22		8.78			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3	
VHT20	MCS0	2	52	5260	17.63	17.63	22.63	22.43	23.46		29.46		23.98		
VHT20	MCS0	2	60	5300	17.68	17.63	22.48	22.08	23.46		29.46		23.98		
VHT20	MCS0	2	64	5320	17.68	17.73	23.08	21.78	23.48		29.48		23.98		
VHT40	MCS0	2	54	5270	36.16	35.96	42.35	40.37	23.98		30.00		23.98		
VHT40	MCS0	2	62	5310	36.26	36.16	43.25	41.63	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	77.08	77.08	83.76	83.12	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
					Ant 2	Ant 3	SUM	Ant 2	Ant 3	Ant 2	Ant 3		
VHT20	MCS0	2	52	5260	15.60	15.80	18.71	21.42		8.56		30	Pass
VHT20	MCS0	2	60	5300	15.50	15.70	18.61	21.42		8.56		30	Pass
VHT20	MCS0	2	64	5320	15.70	15.90	18.81	21.42		8.56		30	Pass
VHT40	MCS0	2	54	5270	15.80	16.10	18.96	21.42		8.56		30	Pass
VHT40	MCS0	2	62	5310	16.00	16.20	19.11	21.42		8.56		30	Pass
VHT80	MCS0	2	58	5290	18.00	18.30	21.16	21.42		8.56		30	Pass

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
					SUM	Ant 2	Ant 3	Ant 2	Ant 3		
VHT20	MCS0	2	52	5260	8.36	8.44		8.56			Pass
VHT20	MCS0	2	60	5300	8.33	8.44		8.56			Pass
VHT20	MCS0	2	64	5320	8.31	8.44		8.56			Pass
VHT40	MCS0	2	54	5270	8.07	8.44		8.56			Pass
VHT40	MCS0	2	62	5310	8.08	8.44		8.56			Pass
VHT80	MCS0	2	58	5290	6.53	8.44		8.56			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3	Ant 2	Ant 3
VHT20	MCS0	2	100	5500	17.63	17.73	22.13	22.43	23.46		29.46		23.98		----	----
VHT20	MCS0	2	116	5580	17.63	17.68	22.78	22.38	23.46		29.46		23.98		----	----
VHT20	MCS0	2	140	5700	17.68	17.63	21.88	21.43	23.46		29.46		23.98		----	----
VHT20	MCS0	2	144	5720	13.89	13.84	16.64	15.59	22.41		28.41		22.93		2.792	3.091
VHT40	MCS0	2	102	5510	36.06	36.06	42.26	40.82	23.98		30.00		23.98		----	----
VHT40	MCS0	2	110	5550	36.16	36.06	42.71	40.91	23.98		30.00		23.98		----	----
VHT40	MCS0	2	134	5670	36.06	36.16	42.98	42.17	23.98		30.00		23.98		----	----
VHT40	MCS0	2	142	5710	33.18	33.08	36.31	36.31	23.98		30.00		23.98		2.533	2.533
VHT80	MCS0	2	106	5530	76.96	77.08	42.26	82.48	23.98		30.00		23.98		----	----
VHT80	MCS0	2	122	5610	77.08	77.44	42.71	81.20	23.98		30.00		23.98		----	----
VHT80	MCS0	2	138	5690	73.84	74.08	78.16	76.08	23.98		30.00		23.98		2.56	2.56

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
					Ant 2	Ant 3	SUM	Ant 2	Ant 3	Ant 2	Ant 3		
VHT20	MCS0	2	100	5500	16.40	16.30	19.36	21.61		8.37		30	Pass
VHT20	MCS0	2	116	5580	16.50	16.50	19.51	21.61		8.37		30	Pass
VHT20	MCS0	2	140	5700	16.20	16.50	19.36	21.61		8.37		30	Pass
VHT20	MCS0	2	144	5720	16.30	16.20	19.26	21.61		8.37		30	Pass
VHT40	MCS0	2	102	5510	18.30	18.40	21.36	21.61		8.37		30	Pass
VHT40	MCS0	2	110	5550	18.20	18.10	21.16	21.61		8.37		30	Pass
VHT40	MCS0	2	134	5670	18.40	18.70	21.56	21.61		8.37		30	Pass
VHT40	MCS0	2	142	5710	18.00	18.20	21.11	21.61		8.37		30	Pass
VHT80	MCS0	2	106	5530	18.20	18.20	21.21	21.61		8.37		30	Pass
VHT80	MCS0	2	122	5610	18.60	18.50	21.56	21.61		8.37		30	Pass
VHT80	MCS0	2	138	5690	18.00	18.20	21.11	21.61		8.37		30	Pass

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
					SUM	Ant 2	Ant 3	Ant 2	Ant 3	
VHT20	MCS0	2	100	5500	8.62	8.63		8.37		Pass
VHT20	MCS0	2	116	5580	8.23	8.63		8.37		Pass
VHT20	MCS0	2	140	5700	8.38	8.63		8.37		Pass
VHT20	MCS0	2	144	5720	8.30	8.63		8.37		Pass
VHT40	MCS0	2	102	5510	8.10	8.63		8.37		Pass
VHT40	MCS0	2	110	5550	7.70	8.63		8.37		Pass
VHT40	MCS0	2	134	5670	8.32	8.63		8.37		Pass
VHT40	MCS0	2	142	5710	7.93	8.63		8.37		Pass
VHT80	MCS0	2	106	5530	6.97	8.63		8.37		Pass
VHT80	MCS0	2	122	5610	7.76	8.63		8.37		Pass
VHT80	MCS0	2	138	5690	6.99	8.63		8.37		Pass

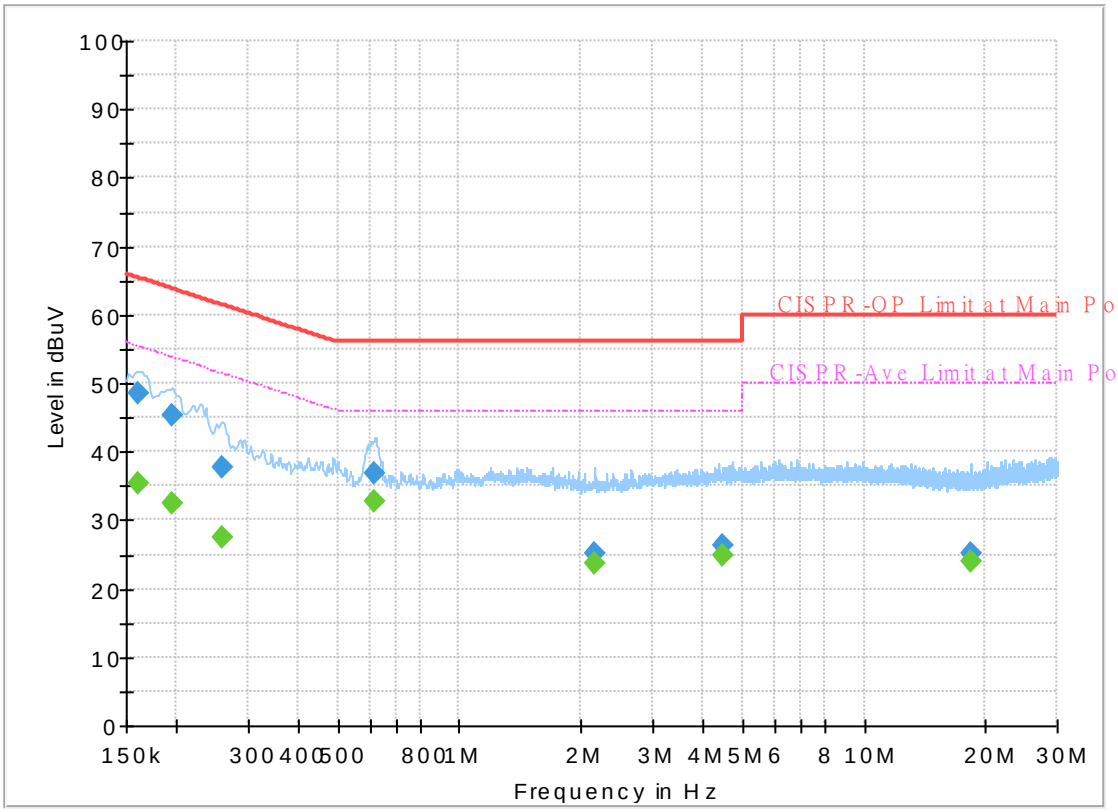
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	**Temperature :**	25.5~26.4℃
		Relative Humidity :	55~58%

EUT Information

Report NO :	960638
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



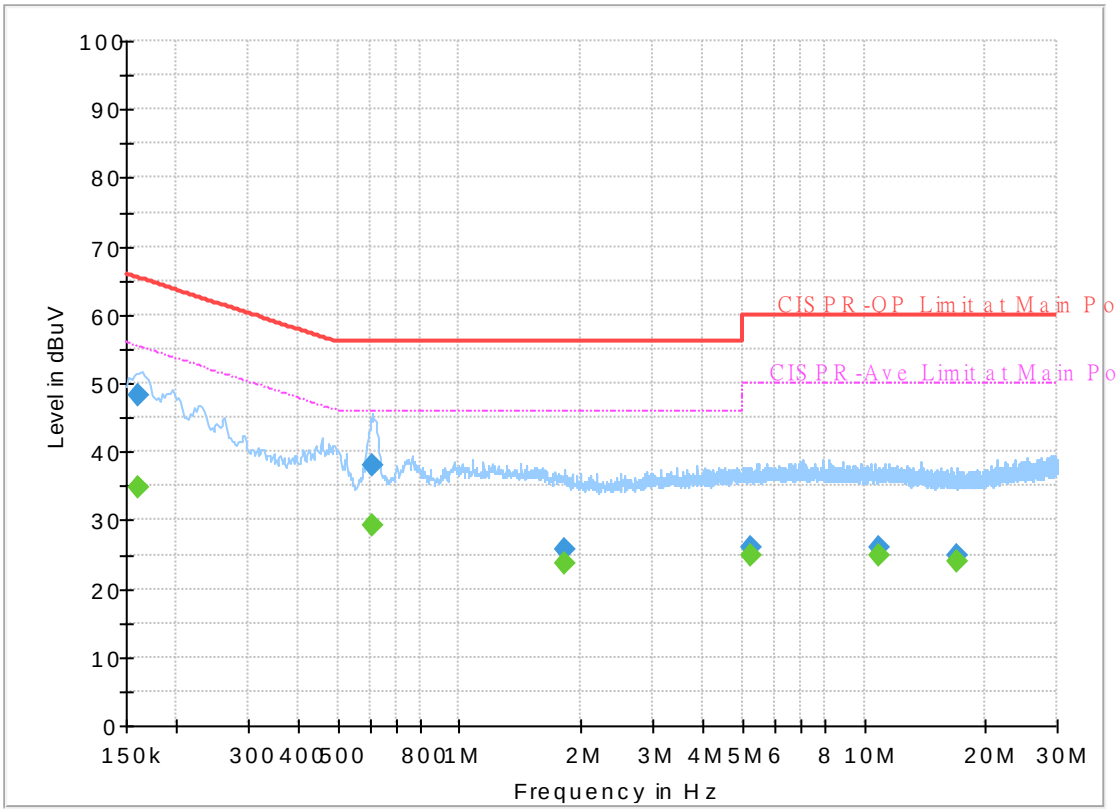
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	35.28	55.40	20.12	L1	OFF	19.4
0.161250	48.50	---	65.40	16.90	L1	OFF	19.4
0.195000	---	32.33	53.82	21.49	L1	OFF	19.4
0.195000	45.35	---	63.82	18.47	L1	OFF	19.4
0.258000	---	27.52	51.50	23.98	L1	OFF	19.4
0.258000	37.64	---	61.50	23.86	L1	OFF	19.4
0.615750	---	32.66	46.00	13.34	L1	OFF	19.4
0.615750	36.78	---	56.00	19.22	L1	OFF	19.4
2.150250	---	23.73	46.00	22.27	L1	OFF	19.5
2.150250	25.10	---	56.00	30.90	L1	OFF	19.5
4.465500	---	24.95	46.00	21.05	L1	OFF	19.6
4.465500	26.22	---	56.00	29.78	L1	OFF	19.6
18.449250	---	24.11	50.00	25.89	L1	OFF	20.1
18.449250	25.10	---	60.00	34.90	L1	OFF	20.1

EUT Information

Report NO :	960638
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	34.70	55.40	20.70	N	OFF	19.5
0.161250	48.23	---	65.40	17.17	N	OFF	19.5
0.609000	---	29.31	46.00	16.69	N	OFF	19.5
0.609000	38.14	---	56.00	17.86	N	OFF	19.5
1.821750	---	23.66	46.00	22.34	N	OFF	19.6
1.821750	25.85	---	56.00	30.15	N	OFF	19.6
5.248500	---	24.84	50.00	25.16	N	OFF	19.7
5.248500	25.97	---	60.00	34.03	N	OFF	19.7
10.848750	---	24.91	50.00	25.09	N	OFF	19.9
10.848750	25.96	---	60.00	34.04	N	OFF	19.9
16.944000	---	24.04	50.00	25.96	N	OFF	20.2
16.944000	24.99	---	60.00	35.01	N	OFF	20.2

Appendix C. Radiated Spurious Emission

Test Engineer :	Ryan Lin, JC Liang and Wilson Wu	Temperature :	21.5~23.5°C
		Relative Humidity :	46.5~49.5%

<CDD Mode>

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2+3		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5147.94	61.47	-12.53	74	52.78	32.1	6.08	29.49	237	304	P	H
		5148.2	52.28	-1.72	54	43.59	32.1	6.08	29.49	237	304	A	H
	*	5180	118.26	-	-	109.73	31.92	6.1	29.49	237	304	P	H
	*	5180	109.94	-	-	101.41	31.92	6.1	29.49	237	304	A	H
													H
		5146.9	59.15	-14.85	74	50.47	32.09	6.08	29.49	400	270	P	V
		5147.16	48.1	-5.9	54	39.42	32.09	6.08	29.49	400	270	A	V
	*	5180	115.78	-	-	107.25	31.92	6.1	29.49	400	270	P	V
	*	5180	108.04	-	-	99.51	31.92	6.1	29.49	400	270	A	V
													V
802.11a CH 40 5200MHz		5147.94	58.19	-15.81	74	49.5	32.1	6.08	29.49	124	329	P	H
		5146.38	49.64	-4.36	54	40.96	32.09	6.08	29.49	124	329	A	H
	*	5200	119.94	-	-	111.53	31.8	6.11	29.5	124	329	P	H
	*	5200	112.23	-	-	103.82	31.8	6.11	29.5	124	329	A	H
		5360.32	50.68	-23.32	74	42.64	31.44	6.12	29.52	124	329	P	H
		5354.44	42.12	-11.88	54	34.1	31.42	6.12	29.52	124	329	A	H
		5148.46	57.41	-16.59	74	48.72	32.1	6.08	29.49	400	269	P	V
		5147.42	47.62	-6.38	54	38.94	32.09	6.08	29.49	400	269	A	V
	*	5200	119.6	-	-	111.19	31.8	6.11	29.5	400	269	P	V
	*	5200	111.32	-	-	102.91	31.8	6.11	29.5	400	269	A	V
		5460	48.82	-25.18	74	40.36	31.82	6.18	29.54	400	269	P	V
		5365.36	40.42	-13.58	54	32.37	31.46	6.12	29.53	400	269	A	V

802.11a CH 48 5240MHz		5120.12	50.81	-23.19	74	42.18	32.04	6.07	29.48	127	328	P	H
		5119.08	42.57	-11.43	54	33.94	32.04	6.07	29.48	127	328	A	H
	*	5240	120.91	-	-	112.74	31.56	6.11	29.5	127	328	P	H
	*	5240	113.28	-	-	105.11	31.56	6.11	29.5	127	328	A	H
		5357.24	51.55	-22.45	74	43.52	31.43	6.12	29.52	127	328	P	H
		5405.12	42.68	-11.32	54	34.46	31.62	6.13	29.53	127	328	A	H
		5125.84	50.24	-23.76	74	41.6	32.05	6.07	29.48	395	279	P	V
		5126.1	41.86	-12.14	54	33.22	32.05	6.07	29.48	395	279	A	V
	*	5240	120.98	-	-	112.81	31.56	6.11	29.5	395	279	P	V
	*	5240	112.29	-	-	104.12	31.56	6.11	29.5	395	279	A	V
		5450.48	49.74	-24.26	74	41.31	31.8	6.17	29.54	395	279	P	V
		5395.32	40.58	-13.42	54	32.41	31.58	6.12	29.53	395	279	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	49.4	-18.8	68.2	56.81	39.64	9.91	56.96	100	0	P	H
		15540	45.44	-28.56	74	51.14	38.3	12.65	56.65	100	0	P	H
													H
													H
		10360	48.43	-19.77	68.2	55.84	39.64	9.91	56.96	100	0	P	V
		15540	44.38	-29.62	74	50.08	38.3	12.65	56.65	100	0	P	V
													V
													V
802.11a CH 40 5200MHz		10400	47.75	-20.45	68.2	54.96	39.8	9.39	56.94	100	0	P	H
		15600	48.93	-25.07	74	54.83	38	11.93	56.58	100	0	P	H
													H
													H
		10400	48.76	-19.44	68.2	55.97	39.8	9.39	56.94	100	0	P	V
		15600	56.16	-17.84	74	62.06	38	11.93	56.58	106	26	P	V
		15600	45.34	-8.66	54	51.24	38	11.93	56.58	106	26	A	V
													V
802.11a CH 48 5240MHz		10480	48.93	-19.27	68.2	55.91	39.96	9.97	56.91	100	0	P	H
		15720	49.33	-24.67	74	55.07	37.96	12.74	56.44	100	0	P	H
													H
													H
		10480	49.15	-19.05	68.2	56.13	39.96	9.97	56.91	100	0	P	V
		15720	55.39	-18.61	74	61.13	37.96	12.74	56.44	106	24	P	V
		15720	45.48	-8.52	54	51.22	37.96	12.74	56.44	106	24	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5150	58.75	-15.25	74	50.06	32.1	6.08	29.49	111	324	P	H
		5150	51.93	-2.07	54	43.24	32.1	6.08	29.49	111	324	A	H
	*	5180	118.71	-	-	110.18	31.92	6.1	29.49	111	324	P	H
	*	5180	110.96	-	-	102.43	31.92	6.1	29.49	111	324	A	H
802.11n													H
HT20													H
CH 36		5140.4	55.43	-18.57	74	46.76	32.08	6.08	29.49	382	277	P	V
5180MHz		5149.76	49.67	-4.33	54	40.98	32.1	6.08	29.49	382	277	A	V
	*	5180	117.64	-	-	109.11	31.92	6.1	29.49	382	277	P	V
	*	5180	109.69	-	-	101.16	31.92	6.1	29.49	382	277	A	V
													V
													V
		5132.6	55	-19	74	46.34	32.07	6.07	29.48	122	327	P	H
		5150	48.17	-5.83	54	39.48	32.1	6.08	29.49	122	327	A	H
	*	5200	121.42	-	-	113.01	31.8	6.11	29.5	122	327	P	H
	*	5200	112.93	-	-	104.52	31.8	6.11	29.5	122	327	A	H
802.11n		5354.16	50.62	-23.38	74	42.6	31.42	6.12	29.52	122	327	P	H
HT20		5351.64	42.78	-11.22	54	34.77	31.41	6.12	29.52	122	327	A	H
CH 40		5131.3	54.12	-19.88	74	45.47	32.06	6.07	29.48	399	269	P	V
5200MHz		5150	46.43	-7.57	54	37.74	32.1	6.08	29.49	399	269	A	V
	*	5200	120.51	-	-	112.1	31.8	6.11	29.5	399	269	P	V
	*	5200	111.53	-	-	103.12	31.8	6.11	29.5	399	269	A	V
		5437.6	49.82	-24.18	74	41.45	31.75	6.16	29.54	399	269	P	V
		5352.2	40.56	-13.44	54	32.55	31.41	6.12	29.52	399	269	A	V

		5119.6	52.03	-21.97	74	43.4	32.04	6.07	29.48	128	329	P	H
		5149.24	42.62	-11.38	54	33.93	32.1	6.08	29.49	128	329	A	H
	*	5240	120.69	-	-	112.52	31.56	6.11	29.5	128	329	P	H
	*	5240	112.79	-	-	104.62	31.56	6.11	29.5	128	329	A	H
802.11n		5439.56	51.43	-22.57	74	43.05	31.76	6.16	29.54	128	329	P	H
HT20		5400.64	43.13	-10.87	54	34.94	31.6	6.12	29.53	128	329	A	H
CH 48		5147.42	50.22	-23.78	74	41.54	32.09	6.08	29.49	397	277	P	V
5240MHz		5150	41.76	-12.24	54	33.07	32.1	6.08	29.49	397	277	A	V
	*	5240	119.3	-	-	111.13	31.56	6.11	29.5	397	277	P	V
	*	5240	111.58	-	-	103.41	31.56	6.11	29.5	397	277	A	V
		5403.44	49.6	-24.4	74	41.4	31.61	6.12	29.53	397	277	P	V
		5400.64	40.93	-13.07	54	32.74	31.6	6.12	29.53	397	277	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10360	47.69	-20.51	68.2	55.1	39.64	9.91	56.96	100	0	P	H
		15540	45.22	-28.78	74	50.92	38.3	12.65	56.65	100	0	P	H
802.11n													H
HT20													H
CH 36		10360	48.12	-20.08	68.2	55.53	39.64	9.91	56.96	100	0	P	V
5180MHz		15540	44.95	-29.05	74	50.65	38.3	12.65	56.65	100	0	P	V
													V
													V
		10400	48.24	-19.96	68.2	55.45	39.8	9.39	56.94	100	0	P	H
		15600	49.96	-24.04	74	55.86	38	11.93	56.58	100	0	P	H
802.11n													H
HT20													H
CH 40		10400	48.84	-19.36	68.2	56.05	39.8	9.39	56.94	100	0	P	V
5200MHz		15600	55.96	-18.04	74	61.86	38	11.93	56.58	120	24	P	V
		15600	45.61	-8.39	54	51.51	38	11.93	56.58	120	24	A	V
													V
		10480	48.64	-19.56	68.2	55.62	39.96	9.97	56.91	100	0	P	H
		15720	51.03	-22.97	74	56.77	37.96	12.74	56.44	100	127	P	H
802.11n		15720	41.72	-12.28	54	47.46	37.96	12.74	56.44	100	127	A	H
HT20													H
CH 48		10480	49.29	-18.91	68.2	56.27	39.96	9.97	56.91	100	0	P	V
5240MHz		15720	55.93	-18.07	74	61.67	37.96	12.74	56.44	119	25	P	V
		15720	44.07	-9.93	54	49.81	37.96	12.74	56.44	119	25	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 38 5190MHz		5148.46	58.35	-15.65	74	49.66	32.1	6.08	29.49	100	330	P	H
		5150	52.2	-1.8	54	43.51	32.1	6.08	29.49	100	330	A	H
	*	5190	111.28	-	-	102.81	31.86	6.1	29.49	100	330	P	H
	*	5190	103.38	-	-	94.91	31.86	6.1	29.49	100	330	A	H
		5381.88	51.27	-22.73	74	43.15	31.53	6.12	29.53	100	330	P	H
		5457.2	42.29	-11.71	54	33.84	31.81	6.18	29.54	100	330	A	H
		5149.76	57	-17	74	48.31	32.1	6.08	29.49	387	273	P	V
		5149.76	50.04	-3.96	54	41.35	32.1	6.08	29.49	387	273	A	V
	*	5190	108.99	-	-	100.52	31.86	6.1	29.49	387	273	P	V
	*	5190	101.31	-	-	92.84	31.86	6.1	29.49	387	273	A	V
		5403.16	48.68	-25.32	74	40.48	31.61	6.12	29.53	387	273	P	V
		5456.64	40.17	-13.83	54	31.72	31.81	6.18	29.54	387	273	A	V
802.11n HT40 CH 46 5230MHz		5147.94	58.27	-15.73	74	49.58	32.1	6.08	29.49	100	329	P	H
		5150	51.89	-2.11	54	43.2	32.1	6.08	29.49	100	329	A	H
	*	5230	116.44	-	-	108.21	31.62	6.11	29.5	100	329	P	H
	*	5230	109.14	-	-	100.91	31.62	6.11	29.5	100	329	A	H
		5358.92	52.03	-21.97	74	43.99	31.44	6.12	29.52	100	329	P	H
		5351.36	43.43	-10.57	54	35.42	31.41	6.12	29.52	100	329	A	H
		5148.72	58.88	-15.12	74	50.19	32.1	6.08	29.49	400	272	P	V
		5147.94	49.93	-4.07	54	41.24	32.1	6.08	29.49	400	272	A	V
	*	5230	114.65	-	-	106.42	31.62	6.11	29.5	400	272	P	V
	*	5230	107.46	-	-	99.23	31.62	6.11	29.5	400	272	A	V
		5367.32	48.83	-25.17	74	40.77	31.47	6.12	29.53	400	272	P	V
		5350	41.01	-12.99	54	33.01	31.4	6.12	29.52	400	272	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10380	45.76	-22.44	68.2	53.07	39.72	9.92	56.95	100	0	P	H
		15570	45.15	-28.85	74	50.96	38.15	12.66	56.62	100	0	P	H
802.11n													H
HT40													H
CH 38		10380	45.42	-22.78	68.2	52.73	39.72	9.92	56.95	100	0	P	V
5190MHz		15570	44.58	-29.42	74	50.39	38.15	12.66	56.62	100	0	P	V
													V
													V
		10460	47.85	-20.35	68.2	54.89	39.92	9.96	56.92	100	0	P	H
		15690	46.39	-27.61	74	52.14	38	12.72	56.47	100	0	P	H
802.11n													H
HT40													H
CH 46		10460	49.18	-19.02	68.2	56.22	39.92	9.96	56.92	100	0	P	V
5230MHz		15690	45.96	-28.04	74	51.71	38	12.72	56.47	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5148.72	59.73	-14.27	74	51.04	32.1	6.08	29.49	106	328	P	H
		5148.72	52.09	-1.91	54	43.4	32.1	6.08	29.49	106	328	A	H
	*	5210	106.76	-	-	98.41	31.74	6.11	29.5	106	328	P	H
	*	5210	98.53	-	-	90.18	31.74	6.11	29.5	106	328	A	H
		5377.68	52.52	-21.48	74	44.42	31.51	6.12	29.53	106	328	P	H
		5370.12	44.69	-9.31	54	36.62	31.48	6.12	29.53	106	328	A	H
		5145.08	58.09	-15.91	74	49.41	32.09	6.08	29.49	400	271	P	V
		5147.42	50.27	-3.73	54	41.59	32.09	6.08	29.49	400	271	A	V
	*	5210	103.58	-	-	95.23	31.74	6.11	29.5	400	271	P	V
	*	5210	97.76	-	-	89.41	31.74	6.11	29.5	400	271	A	V
		5354.44	50.96	-23.04	74	42.94	31.42	6.12	29.52	400	271	P	V
		5369.84	41.96	-12.04	54	33.89	31.48	6.12	29.53	400	271	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10420	46.36	-21.84	68.2	53.51	39.84	9.94	56.93	100	0	P	H
		15630	45.47	-28.53	74	51.31	38	12.7	56.54	100	0	P	H
802.11ac													H
VHT80													H
CH 42		10420	46.13	-22.07	68.2	53.28	39.84	9.94	56.93	100	0	P	V
5210MHz		15630	45.28	-28.72	74	51.12	38	12.7	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.												

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 52 5260MHz		5112.88	50.73	-23.27	74	42.12	32.03	6.06	29.48	129	329	P	H
		5138.38	42.65	-11.35	54	33.97	32.08	6.08	29.48	129	329	A	H
	*	5260	121.71	-	-	113.63	31.48	6.11	29.51	129	329	P	H
	*	5260	113.5	-	-	105.42	31.48	6.11	29.51	129	329	A	H
		5376.24	50.99	-23.01	74	42.9	31.5	6.12	29.53	129	329	P	H
		5415.84	42.62	-11.38	54	34.35	31.66	6.14	29.53	129	329	A	H
		5121.38	50.72	-23.28	74	42.09	32.04	6.07	29.48	393	278	P	V
		5145.52	42.21	-11.79	54	33.53	32.09	6.08	29.49	393	278	A	V
	*	5260	119.74	-	-	111.66	31.48	6.11	29.51	393	278	P	V
	*	5260	112.8	-	-	104.72	31.48	6.11	29.51	393	278	A	V
		5350.08	49.55	-24.45	74	41.55	31.4	6.12	29.52	393	278	P	V
		5425.2	41	-13	54	32.69	31.7	6.15	29.54	393	278	A	V
802.11a CH 60 5300MHz		5145.18	50.94	-23.06	74	42.26	32.09	6.08	29.49	119	328	P	H
		5140.42	41.89	-12.11	54	33.22	32.08	6.08	29.49	119	328	A	H
	*	5300	121.57	-	-	113.57	31.4	6.11	29.51	119	328	P	H
	*	5300	113.41	-	-	105.41	31.4	6.11	29.51	119	328	A	H
		5350.08	55.99	-18.01	74	47.99	31.4	6.12	29.52	119	328	P	H
		5350.08	50.21	-3.79	54	42.21	31.4	6.12	29.52	119	328	A	H
		5012.92	50.28	-23.72	74	42.05	31.68	6.01	29.46	369	278	P	V
		5137.7	41.37	-12.63	54	32.69	32.08	6.08	29.48	369	278	A	V
	*	5300	119.21	-	-	111.21	31.4	6.11	29.51	369	278	P	V
	*	5300	112.21	-	-	104.21	31.4	6.11	29.51	369	278	A	V
		5351.52	58.76	-15.24	74	50.75	31.41	6.12	29.52	369	278	P	V
		5352.24	46.51	-7.49	54	38.5	31.41	6.12	29.52	369	278	A	V

802.11a CH 64 5320MHz	*	5310	119.54	-	-	111.54	31.4	6.12	29.52	124	328	P	H
	*	5310	112.31	-	-	104.31	31.4	6.12	29.52	124	328	A	H
		5354.4	58.42	-15.58	74	50.4	31.42	6.12	29.52	124	328	P	H
		5350.08	52.38	-1.62	54	44.38	31.4	6.12	29.52	124	328	A	H
													H
													H
	*	5310	117.34	-	-	109.34	31.4	6.12	29.52	367	246	P	V
	*	5310	110.11	-	-	102.11	31.4	6.12	29.52	367	246	A	V
		5355.84	57.12	-16.88	74	49.1	31.42	6.12	29.52	367	246	P	V
		5352.32	48.99	-5.01	54	40.98	31.41	6.12	29.52	367	246	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. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 52 5260MHz		10520	47.76	-20.44	68.2	54.64	40	10	56.88	100	0	P	H
		15780	49.46	-24.54	74	55.2	37.84	12.78	56.36	100	0	P	H
													H
													H
		10520	48.89	-19.31	68.2	55.77	40	10	56.88	100	0	P	V
		15780	49.6	-24.4	74	55.34	37.84	12.78	56.36	100	0	P	V
													V
													V
802.11a CH 60 5300MHz		10600	49.96	-24.04	74	56.74	40	10.04	56.82	100	0	P	H
		15900	49.11	-24.89	74	54.99	37.5	12.84	56.22	100	0	P	H
													H
													H
		10600	48.9	-25.1	74	55.68	40	10.04	56.82	100	0	P	V
		15900	48.4	-25.6	74	54.28	37.5	12.84	56.22	100	0	P	V
													V
													V
802.11a CH 64 5320MHz		10640	49.03	-24.97	74	55.77	40	10.05	56.79	100	0	P	H
		15960	45.24	-28.76	74	50.9	37.62	12.87	56.15	100	0	P	H
													H
													H
		10640	49.17	-24.83	74	55.91	40	10.05	56.79	100	0	P	V
		15960	44.94	-29.06	74	50.6	37.62	12.87	56.15	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. 2+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5140.42	52.01	-21.99	74	43.34	32.08	6.08	29.49	100	328	P	H
		5146.54	42.82	-11.18	54	34.14	32.09	6.08	29.49	100	328	A	H
	*	5260	119.34	-	-	111.26	31.48	6.11	29.51	100	328	P	H
	*	5260	112.8	-	-	104.72	31.48	6.11	29.51	100	328	A	H
802.11n		5418.24	51.28	-22.72	74	43.01	31.67	6.14	29.54	100	328	P	H
HT20		5421.84	42.96	-11.04	54	34.67	31.69	6.14	29.54	100	328	A	H
CH 52		5145.86	50.51	-23.49	74	41.83	32.09	6.08	29.49	396	270	P	V
5260MHz		5138.38	41.96	-12.04	54	33.28	32.08	6.08	29.48	396	270	A	V
	*	5260	119.19	-	-	111.11	31.48	6.11	29.51	396	270	P	V
	*	5260	111.6	-	-	103.52	31.48	6.11	29.51	396	270	A	V
		5363.28	50.21	-23.79	74	42.17	31.45	6.12	29.53	396	270	P	V
		5419.2	40.6	-13.4	54	32.32	31.68	6.14	29.54	396	270	A	V
		5113.9	50.57	-23.43	74	41.96	32.03	6.06	29.48	110	330	P	H
		5145.86	42.01	-11.99	54	33.33	32.09	6.08	29.49	110	330	A	H
	*	5300	120.34	-	-	112.34	31.4	6.11	29.51	110	330	P	H
	*	5300	113.01	-	-	105.01	31.4	6.11	29.51	110	330	A	H
802.11n		5350.56	57.34	-16.66	74	49.34	31.4	6.12	29.52	110	330	P	H
HT20		5350.08	49.85	-4.15	54	41.85	31.4	6.12	29.52	110	330	A	H
CH 60		5139.06	49.87	-24.13	74	41.2	32.08	6.08	29.49	400	239	P	V
5300MHz		5144.84	41.07	-12.93	54	32.39	32.09	6.08	29.49	400	239	A	V
	*	5300	119.03	-	-	111.03	31.4	6.11	29.51	400	239	P	V
	*	5300	111.19	-	-	103.19	31.4	6.11	29.51	400	239	A	V
		5375.76	51.04	-22.96	74	42.95	31.5	6.12	29.53	400	239	P	V
		5379.36	43.45	-10.55	54	35.34	31.52	6.12	29.53	400	239	A	V

	*	5320	117.11	-	-	109.11	31.4	6.12	29.52	120	327	P	H
	*	5320	109.91	-	-	101.91	31.4	6.12	29.52	120	327	A	H
		5350.72	61.72	-12.28	74	53.72	31.4	6.12	29.52	120	327	P	H
		5351.68	52.21	-1.79	54	44.2	31.41	6.12	29.52	120	327	A	H
802.11n													H
HT20													H
CH 64	*	5320	115.53	-	-	107.53	31.4	6.12	29.52	400	243	P	V
5320MHz	*	5320	108.41	-	-	100.41	31.4	6.12	29.52	400	243	A	V
		5361.44	56.18	-17.82	74	48.14	31.45	6.12	29.53	400	243	P	V
		5359.84	48.25	-5.75	54	40.21	31.44	6.12	29.52	400	243	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. 2+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10520	48.75	-19.45	68.2	55.63	40	10	56.88	100	0	P	H
		15780	49.71	-24.29	74	55.45	37.84	12.78	56.36	100	0	P	H
802.11n													H
HT20													H
CH 52		10520	49.96	-18.24	68.2	56.84	40	10	56.88	100	0	P	V
5260MHz		15780	48.16	-25.84	74	53.9	37.84	12.78	56.36	100	0	P	V
													V
													V
		10600	48.18	-25.82	74	54.96	40	10.04	56.82	100	0	P	H
		15900	47.92	-26.08	74	53.8	37.5	12.84	56.22	100	0	P	H
802.11n													H
HT20													H
CH 60		10600	49.57	-24.43	74	56.35	40	10.04	56.82	100	0	P	V
5300MHz		15900	46.97	-27.03	74	52.85	37.5	12.84	56.22	100	0	P	V
													V
													V
		10640	47.98	-26.02	74	54.72	40	10.05	56.79	100	0	P	H
		15960	44.75	-29.25	74	50.41	37.62	12.87	56.15	100	0	P	H
802.11n													H
HT20													H
CH 64		10640	49.91	-24.09	74	56.65	40	10.05	56.79	100	0	P	V
5320MHz		15960	45.38	-28.62	74	51.04	37.62	12.87	56.15	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. 2+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 54 5270MHz		5149.76	53.32	-20.68	74	44.63	32.1	6.08	29.49	100	333	P	H
		5149.5	45.53	-8.47	54	36.84	32.1	6.08	29.49	100	333	A	H
	*	5270	117.6	-	-	109.54	31.46	6.11	29.51	100	333	P	H
	*	5270	110.39	-	-	102.33	31.46	6.11	29.51	100	333	A	H
		5351.36	58.16	-15.84	74	50.15	31.41	6.12	29.52	100	333	P	H
		5350	51.73	-2.27	54	43.73	31.4	6.12	29.52	100	333	A	H
		5142.8	51.95	-22.05	74	43.27	32.09	6.08	29.49	400	277	P	V
		5149.26	44.72	-9.28	54	36.03	32.1	6.08	29.49	400	277	A	V
	*	5270	115.64	-	-	107.58	31.46	6.11	29.51	400	277	P	V
	*	5270	109.1	-	-	101.04	31.46	6.11	29.51	400	277	A	V
		5352	56.83	-17.17	74	48.82	31.41	6.12	29.52	400	277	P	V
		5350.08	48.83	-5.17	54	40.83	31.4	6.12	29.52	400	277	A	V
802.11n HT40 CH 62 5310MHz		5148.24	53.58	-20.42	74	44.89	32.1	6.08	29.49	105	325	P	H
		5149.94	43.5	-10.5	54	34.81	32.1	6.08	29.49	105	325	A	H
	*	5310	113.04	-	-	105.04	31.4	6.12	29.52	105	325	P	H
	*	5310	104.23	-	-	96.23	31.4	6.12	29.52	105	325	A	H
		5351.76	61.59	-12.41	74	53.58	31.41	6.12	29.52	105	325	P	H
		5350.08	51.15	-2.85	54	43.15	31.4	6.12	29.52	105	325	A	H
		5138.04	50.7	-23.3	74	42.02	32.08	6.08	29.48	391	278	P	V
		5149.94	42.86	-11.14	54	34.17	32.1	6.08	29.49	391	278	A	V
	*	5310	111.44	-	-	103.44	31.4	6.12	29.52	391	278	P	V
	*	5310	102.87	-	-	94.87	31.4	6.12	29.52	391	278	A	V
		5350.32	54.84	-19.16	74	46.84	31.4	6.12	29.52	391	278	P	V
		5350.08	47.55	-6.45	54	39.55	31.4	6.12	29.52	391	278	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. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10540	47.73	-20.47	68.2	54.59	40	10.01	56.87	100	0	P	H
		15810	47.35	-26.65	74	53.11	37.77	12.8	56.33	100	0	P	H
802.11n													H
HT40													H
CH 54		10540	48.25	-19.95	68.2	55.11	40	10.01	56.87	100	0	P	V
5270MHz		15810	47.51	-26.49	74	53.27	37.77	12.8	56.33	100	0	P	V
													V
													V
		10620	48.37	-25.63	74	55.13	40	10.04	56.8	100	0	P	H
		15930	45.17	-28.83	74	50.93	37.56	12.86	56.18	100	0	P	H
802.11n													H
HT40													H
CH 62		10620	47.69	-26.31	74	54.45	40	10.04	56.8	100	0	P	V
5310MHz		15930	44.76	-29.24	74	50.52	37.56	12.86	56.18	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. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5130.22	52.98	-21.02	74	44.33	32.06	6.07	29.48	137	327	P	H
		5129.88	44.8	-9.2	54	36.15	32.06	6.07	29.48	137	327	A	H
	*	5290	108.02	-	-	100	31.42	6.11	29.51	137	327	P	H
	*	5290	99.3	-	-	91.28	31.42	6.11	29.51	137	327	A	H
		5351.76	59.65	-14.35	74	51.64	31.41	6.12	29.52	137	327	P	H
		5350.32	50.87	-3.13	54	42.87	31.4	6.12	29.52	137	327	A	H
		5140.08	51.54	-22.46	74	42.87	32.08	6.08	29.49	390	279	P	V
		5129.88	43.99	-10.01	54	35.34	32.06	6.07	29.48	390	279	A	V
	*	5290	106.36	-	-	98.34	31.42	6.11	29.51	390	279	P	V
	*	5290	97.71	-	-	89.69	31.42	6.11	29.51	390	279	A	V
		5353.2	56.04	-17.96	74	48.03	31.41	6.12	29.52	390	279	P	V
		5351.28	47.81	-6.19	54	39.8	31.41	6.12	29.52	390	279	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. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10580	46.75	-21.45	68.2	53.56	40	10.03	56.84	100	0	P	H
		15870	45.66	-28.34	74	51.51	37.59	12.82	56.26	100	0	P	H
802.11ac													H
VHT80													H
CH 58		10580	46.89	-21.31	68.2	53.7	40	10.03	56.84	100	0	P	V
5290MHz		15870	45.41	-28.59	74	51.26	37.59	12.82	56.26	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	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 100 5500MHz		5458.32	61.5	-12.5	74	53.04	31.82	6.18	29.54	124	321	P	H
		5464.56	60.54	-7.66	68.2	52.07	31.83	6.18	29.54	124	321	P	H
		5459.12	52.48	-1.52	54	44.02	31.82	6.18	29.54	124	321	A	H
		5182	60.73	-7.47	68.2	52.21	31.91	6.1	29.49	124	321	P	H
	*	5500	117.67	-	-	109.1	31.9	6.22	29.55	124	321	P	H
	*	5500	110.13	-	-	101.56	31.9	6.22	29.55	124	321	A	H
		5456.56	55.52	-18.48	74	47.07	31.81	6.18	29.54	400	237	P	V
		5466.64	57.68	-10.52	68.2	49.2	31.83	6.19	29.54	400	237	P	V
		5456.88	47.76	-6.24	54	39.31	31.81	6.18	29.54	400	237	A	V
		5176	56.53	-11.67	68.2	47.98	31.94	6.1	29.49	400	237	P	V
	*	5500	115.28	-	-	106.71	31.9	6.22	29.55	400	237	P	V
	*	5500	107.15	-	-	98.58	31.9	6.22	29.55	400	237	A	V
802.11a CH 116 5580MHz		5423.44	53.54	-20.46	74	45.25	31.69	6.14	29.54	106	331	P	H
		5462.56	52.7	-15.5	68.2	44.23	31.83	6.18	29.54	106	331	P	H
		5457.04	45.36	-8.64	54	36.91	31.81	6.18	29.54	106	331	A	H
		5266	58	-10.2	68.2	49.93	31.47	6.11	29.51	106	331	P	H
	*	5580	122.36	-	-	113.71	31.9	6.3	29.55	106	331	P	H
	*	5580	114.46	-	-	105.81	31.9	6.3	29.55	106	331	A	H
		5422.72	50.41	-23.59	74	42.12	31.69	6.14	29.54	351	240	P	V
		5464.96	51.09	-17.11	68.2	42.62	31.83	6.18	29.54	351	240	P	V
		5422.24	42.84	-11.16	54	34.55	31.69	6.14	29.54	351	240	A	V
		5260	55.19	-13.01	68.2	47.11	31.48	6.11	29.51	351	240	P	V
	*	5580	118.23	-	-	109.58	31.9	6.3	29.55	351	240	P	V
	*	5580	111.36	-	-	102.71	31.9	6.3	29.55	351	240	A	V
		5737.28	49.86	-18.34	68.2	40.97	32.07	6.37	29.55	351	240	P	V

802.11a CH 140 5700MHz		5380	60.29	-13.71	74	52.18	31.52	6.12	29.53	116	330	P	H
		5380	52.26	-1.74	54	44.15	31.52	6.12	29.53	116	330	A	H
	*	5700	120.35	-	-	111.54	32	6.36	29.55	116	330	P	H
	*	5700	115.52	-	-	106.71	32	6.36	29.55	116	330	A	H
		5725.48	66.08	-2.12	68.2	57.21	32.05	6.37	29.55	116	330	P	H
													H
		5380	59.29	-14.71	74	51.18	31.52	6.12	29.53	397	247	P	V
		5380	51.22	-2.78	54	43.11	31.52	6.12	29.53	397	247	A	V
	*	5700	117.36	-	-	108.55	32	6.36	29.55	397	247	P	V
	*	5700	109.72	-	-	100.91	32	6.36	29.55	397	247	A	V
		5729.56	62.07	-6.13	68.2	53.19	32.06	6.37	29.55	397	247	P	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. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	54.03	-19.97	74	60.01	40.3	10.22	56.5	101	60	P	H
		11000	44.7	-9.3	54	50.68	40.3	10.22	56.5	101	60	A	H
		16500	46.79	-21.41	68.2	50.5	39.2	12.79	55.7	100	0	P	H
													H
		11000	54.61	-19.39	74	60.59	40.3	10.22	56.5	100	75	P	V
		11000	44.76	-9.24	54	50.74	40.3	10.22	56.5	100	75	A	V
		16500	46.91	-21.29	68.2	50.62	39.2	12.79	55.7	100	0	P	V
													V
802.11a CH 116 5580MHz		11160	49.48	-24.52	74	55.74	39.88	10.3	56.44	100	0	P	H
		16740	48.6	-19.6	68.2	51.71	40.04	12.74	55.89	100	0	P	H
													H
													H
		11160	49.87	-24.13	74	56.13	39.88	10.3	56.44	100	0	P	V
		16740	49.67	-18.53	68.2	52.78	40.04	12.74	55.89	100	0	P	V
													V
													V
802.11a CH 140 5700MHz		11400	48.38	-25.62	74	54.4	39.9	10.42	56.34	100	0	P	H
		17100	48.39	-19.81	68.2	51.69	40.2	12.8	56.3	100	0	P	H
													H
													H
		11400	50.42	-23.58	74	56.44	39.9	10.42	56.34	100	0	P	V
		17100	48.66	-19.54	68.2	51.96	40.2	12.8	56.3	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. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 100 5500MHz		5454.8	59.56	-14.44	74	51.12	31.81	6.17	29.54	100	333	P	H
		5470	61.04	-7.16	68.2	52.55	31.84	6.19	29.54	100	333	P	H
		5456.4	52.35	-1.65	54	43.9	31.81	6.18	29.54	100	333	A	H
		5182	59.07	-9.13	68.2	50.55	31.91	6.1	29.49	100	314	P	H
	*	5500	120.12	-	-	111.55	31.9	6.22	29.55	100	333	P	H
	*	5500	111.59	-	-	103.02	31.9	6.22	29.55	100	333	A	H
													H
		5452.08	52.54	-21.46	74	44.11	31.8	6.17	29.54	400	237	P	V
		5469.84	60.26	-7.94	68.2	51.77	31.84	6.19	29.54	400	237	P	V
		5451.76	45.98	-8.02	54	37.55	31.8	6.17	29.54	400	237	A	V
	*	5500	117.3	-	-	108.73	31.9	6.22	29.55	400	237	P	V
	*	5500	109.28	-	-	100.71	31.9	6.22	29.55	400	237	A	V
802.11n HT20 CH 116 5580MHz		5426.32	53.62	-20.38	74	45.3	31.71	6.15	29.54	107	335	P	H
		5464.24	53.72	-14.48	68.2	45.25	31.83	6.18	29.54	107	335	P	H
		5452.72	44.76	-9.24	54	36.32	31.81	6.17	29.54	107	335	A	H
		5260	58.94	-9.26	68.2	50.86	31.48	6.11	29.51	114	332	P	H
	*	5580	122.86	-	-	114.21	31.9	6.3	29.55	107	335	P	H
	*	5580	114.87	-	-	106.22	31.9	6.3	29.55	107	335	A	H
		5752.085	50.37	-17.83	68.2	41.44	32.11	6.38	29.56	107	335	P	H
		5412.16	50.24	-23.76	74	41.99	31.65	6.13	29.53	398	292	P	V
		5468.8	49.38	-18.82	68.2	40.89	31.84	6.19	29.54	398	292	P	V
		5411.68	42.08	-11.92	54	33.83	31.65	6.13	29.53	398	292	A	V
	*	5580	118.16	-	-	109.51	31.9	6.3	29.55	398	292	P	V
	*	5580	110.36	-	-	101.71	31.9	6.3	29.55	398	292	A	V
		5735.705	49.92	-18.28	68.2	41.03	32.07	6.37	29.55	398	292	P	V

		5380	57.18	-16.82	74	49.07	31.52	6.12	29.53	100	325	P	H
		5380	50.67	-3.33	54	42.56	31.52	6.12	29.53	100	325	A	H
	*	5700	119.53	-	-	110.72	32	6.36	29.55	107	335	P	H
	*	5700	110.92	-	-	102.11	32	6.36	29.55	107	335	A	H
802.11n													H
HT20													H
CH 140		5725.32	65.78	-2.42	68.2	56.91	32.05	6.37	29.55	107	335	P	H
5700MHz	*	5700	117.42	-	-	108.61	32	6.36	29.55	374	245	P	V
	*	5700	108.38	-	-	99.57	32	6.36	29.55	374	245	A	V
		5725.4	64.73	-3.47	68.2	55.86	32.05	6.37	29.55	374	245	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 (Harmonic @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11000	53.92	-20.08	74	59.9	40.3	10.22	56.5	100	63	P	H
		11000	44.2	-9.8	54	50.18	40.3	10.22	56.5	100	63	A	H
802.11n		16500	46.82	-21.38	68.2	50.53	39.2	12.79	55.7	100	0	P	H
HT20													H
CH 100		11000	55.23	-18.77	74	61.21	40.3	10.22	56.5	187	74	P	V
5500MHz		11000	45.31	-8.69	54	51.29	40.3	10.22	56.5	187	74	A	V
		16500	46.23	-21.97	68.2	49.94	39.2	12.79	55.7	100	0	P	V
													V
		11160	51.88	-22.12	74	58.14	39.88	10.3	56.44	100	59	P	H
		11160	42.77	-11.23	54	49.03	39.88	10.3	56.44	100	59	A	H
802.11n		16740	50.21	-17.99	68.2	53.32	40.04	12.74	55.89	100	0	P	H
HT20													H
CH 116		11160	52.37	-21.63	74	58.63	39.88	10.3	56.44	216	77	P	V
5580MHz		11160	43.32	-10.68	54	49.58	39.88	10.3	56.44	216	77	A	V
		16740	50.85	-17.35	68.2	53.96	40.04	12.74	55.89	100	0	P	V
													V
		11400	48.92	-25.08	74	54.94	39.9	10.42	56.34	100	0	P	H
		17100	48.48	-19.72	68.2	51.78	40.2	12.8	56.3	100	0	P	H
802.11n													H
HT20													H
CH 140		11400	51.77	-22.23	74	57.79	39.9	10.42	56.34	192	48	P	V
5700MHz		11400	41.66	-12.34	54	47.68	39.9	10.42	56.34	192	48	A	V
		17100	47.86	-20.34	68.2	51.16	40.2	12.8	56.3	100	0	P	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. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path 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	58.18	-15.82	74	49.72	31.82	6.18	29.54	113	332	P	H
		5467.36	62.86	-5.34	68.2	54.38	31.83	6.19	29.54	113	332	P	H
		5459.44	52.12	-1.88	54	43.66	31.82	6.18	29.54	113	332	A	H
	*	5510	115.15	-	-	106.57	31.9	6.23	29.55	113	332	P	H
	*	5510	106.82	-	-	98.24	31.9	6.23	29.55	113	332	A	H
		5731.925	50.82	-17.38	68.2	41.94	32.06	6.37	29.55	113	332	P	H
		5454.4	53.16	-20.84	74	44.72	31.81	6.17	29.54	400	238	P	V
		5469.04	61.81	-6.39	68.2	53.32	31.84	6.19	29.54	400	238	P	V
		5454.16	46.2	-7.8	54	37.76	31.81	6.17	29.54	400	238	A	V
	*	5510	113.24	-	-	104.66	31.9	6.23	29.55	400	238	P	V
	*	5510	104.46	-	-	95.88	31.9	6.23	29.55	400	238	A	V
		5758.385	48.31	-19.89	68.2	39.36	32.13	6.38	29.56	400	238	P	V
802.11n HT40 CH 110 5550MHz		5459.92	58.55	-15.45	74	50.09	31.82	6.18	29.54	119	335	P	H
		5463.04	61.92	-6.28	68.2	53.45	31.83	6.18	29.54	119	335	P	H
		5459.68	50.99	-3.01	54	42.53	31.82	6.18	29.54	119	335	A	H
		5218	56.72	-11.48	68.2	48.42	31.69	6.11	29.5	100	308	P	H
	*	5550	120.67	-	-	112.05	31.9	6.27	29.55	119	335	P	H
	*	5550	113.13	-	-	104.51	31.9	6.27	29.55	119	335	A	H
		5741.375	52.03	-16.17	68.2	43.12	32.08	6.38	29.55	119	335	P	H
		5454.88	55.5	-18.5	74	47.06	31.81	6.17	29.54	396	240	P	V
		5470	55.8	-12.4	68.2	47.31	31.84	6.19	29.54	396	240	P	V
		5456.56	46.66	-7.34	54	38.21	31.81	6.18	29.54	396	240	A	V
	*	5550	118.16	-	-	109.54	31.9	6.27	29.55	396	240	P	V
	*	5550	109.33	-	-	100.71	31.9	6.27	29.55	396	240	A	V
		5730.665	48.57	-19.63	68.2	39.69	32.06	6.37	29.55	396	240	P	V

		5350.35	53.93	-20.07	74	45.93	31.4	6.12	29.52	100	333	P	H
		5466.9	53.29	-14.91	68.2	44.81	31.83	6.19	29.54	100	333	P	H
		5350	50.45	-3.55	54	42.45	31.4	6.12	29.52	100	333	A	H
	*	5670	118.28	-	-	109.54	31.94	6.35	29.55	100	333	P	H
802.11n	*	5670	110.85	-	-	102.11	31.94	6.35	29.55	100	333	A	H
HT40		5729.72	65.7	-2.5	68.2	56.82	32.06	6.37	29.55	100	333	P	H
CH 134		5350.35	50.94	-23.06	74	42.94	31.4	6.12	29.52	400	239	P	V
5670MHz		5464.45	49.25	-18.95	68.2	40.78	31.83	6.18	29.54	400	239	P	V
		5350	46.59	-7.41	54	38.59	31.4	6.12	29.52	400	239	A	V
	*	5670	117.62	-	-	108.88	31.94	6.35	29.55	400	239	P	V
	*	5670	108.45	-	-	99.71	31.94	6.35	29.55	400	239	A	V
		5726.255	65.18	-3.02	68.2	56.31	32.05	6.37	29.55	400	239	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. 2+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11020	49.19	-24.81	74	55.21	40.24	10.23	56.49	100	0	P	H
		16530	46.16	-22.04	68.2	49.89	39.2	12.79	55.72	100	0	P	H
802.11n													H
HT40													H
CH 102		11020	49.5	-24.5	74	55.52	40.24	10.23	56.49	100	0	P	V
5510MHz		16530	45.8	-22.4	68.2	49.53	39.2	12.79	55.72	100	0	P	V
													V
													V
		11100	49.71	-24.29	74	55.9	40	10.27	56.46	100	0	P	H
		16650	48.57	-19.63	68.2	52.12	39.5	12.77	55.82	100	0	P	H
802.11n													H
HT40													H
CH 110		11100	49.56	-24.44	74	55.75	40	10.27	56.46	100	0	P	V
5550MHz		16650	47.14	-21.06	68.2	50.69	39.5	12.77	55.82	100	0	P	V
													V
													V
		11340	47.37	-26.63	74	53.5	39.84	10.39	56.36	100	0	P	H
		17010	48.08	-20.12	68.2	51.39	40.11	12.7	56.12	100	0	P	H
802.11n													H
HT40													H
CH 134		11340	47.44	-26.56	74	53.57	39.84	10.39	56.36	100	0	P	V
5670MHz		17010	48.21	-19.99	68.2	51.52	40.11	12.7	56.12	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. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5458.72	61.49	-12.51	74	53.03	31.82	6.18	29.54	107	335	P	H
		5462.32	60.5	-7.7	68.2	52.04	31.82	6.18	29.54	107	335	P	H
		5457.76	52.19	-1.81	54	43.73	31.82	6.18	29.54	107	335	A	H
	*	5530	107.79	-	-	99.19	31.9	6.25	29.55	107	335	P	H
802.11ac	*	5530	99.14	-	-	90.54	31.9	6.25	29.55	107	335	A	H
VHT80		5759.015	50.47	-17.73	68.2	41.51	32.14	6.38	29.56	107	335	P	H
CH 106		5452.48	56.82	-17.18	74	48.39	31.8	6.17	29.54	359	27	P	V
5530MHz		5469.76	55.84	-12.36	68.2	47.35	31.84	6.19	29.54	359	27	P	V
		5453.44	48.97	-5.03	54	40.53	31.81	6.17	29.54	359	27	A	V
	*	5530	104.89	-	-	96.29	31.9	6.25	29.55	359	27	P	V
	*	5530	96.32	-	-	87.72	31.9	6.25	29.55	359	27	A	V
		5760.275	49.85	-18.35	68.2	40.89	32.14	6.38	29.56	359	27	P	V
		5451.76	61.29	-12.71	74	52.86	31.8	6.17	29.54	122	331	P	H
		5468.8	63.13	-5.07	68.2	54.64	31.84	6.19	29.54	122	331	P	H
		5449.84	50.82	-3.18	54	42.39	31.8	6.17	29.54	122	331	A	H
	*	5610	114.25	-	-	105.58	31.9	6.32	29.55	122	331	P	H
802.11ac	*	5610	105.11	-	-	96.44	31.9	6.32	29.55	122	331	A	H
VHT80		5727.2	64.39	-3.81	68.2	55.52	32.05	6.37	29.55	122	331	P	H
CH 122		5459.44	57.23	-16.77	74	48.77	31.82	6.18	29.54	387	236	P	V
5610MHz		5465.68	59	-9.2	68.2	50.52	31.83	6.19	29.54	387	236	P	V
		5459.2	48.21	-5.79	54	39.75	31.82	6.18	29.54	387	236	A	V
	*	5610	112.06	-	-	103.39	31.9	6.32	29.55	387	236	P	V
	*	5610	102.92	-	-	94.25	31.9	6.32	29.55	387	236	A	V
		5734.445	58.75	-9.45	68.2	49.86	32.07	6.37	29.55	387	236	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. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11060	48.21	-25.79	74	54.32	40.12	10.25	56.48	100	0	P	H
		16590	47.13	-21.07	68.2	50.93	39.2	12.77	55.77	100	0	P	H
802.11ac													H
VHT80													H
CH 106		11060	47.86	-26.14	74	53.97	40.12	10.25	56.48	100	0	P	V
5530MHz		16590	47.3	-20.9	68.2	51.1	39.2	12.77	55.77	100	0	P	V
													V
													V
		11220	48.48	-25.52	74	54.76	39.8	10.33	56.41	100	0	P	H
		16830	47.45	-20.75	68.2	50.37	40.31	12.73	55.96	100	0	P	H
802.11ac													H
VHT80													H
CH 122		11220	47.43	-26.57	74	53.71	39.8	10.33	56.41	100	0	P	V
5610MHz		16830	47.62	-20.58	68.2	50.54	40.31	12.73	55.96	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	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2+3		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		5400	60.25	-13.75	74	52.06	31.6	6.12	29.53	202	333	P	H
		5400	51.83	-2.17	54	43.64	31.6	6.12	29.53	202	333	A	H
	*	5720	119.01	-	-	110.15	32.04	6.37	29.55	231	336	P	H
	*	5720	111.48	-	-	102.62	32.04	6.37	29.55	231	336	A	H
													H
													H
		5400	58.78	-15.22	74	50.59	31.6	6.12	29.53	212	157	P	V
		5400	49.33	-4.67	54	41.14	31.6	6.12	29.53	212	157	A	V
	*	5720	116.99	-	-	108.13	32.04	6.37	29.55	230	356	P	V
	*	5720	108.97	-	-	100.11	32.04	6.37	29.55	230	356	A	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. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 144 5720MHz		11440	48.81	-25.19	74	54.72	39.98	10.43	56.32	100	0	P	H
		17160	47.82	-20.38	68.2	51.3	40.08	12.86	56.42	100	0	P	H
													H
													H
		11440	48.62	-25.38	74	54.53	39.98	10.43	56.32	100	0	P	V
		17160	48.49	-19.71	68.2	51.97	40.08	12.86	56.42	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. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5400	59.87	-14.13	74	51.68	31.6	6.12	29.53	234	312	P	H
		5400	51.67	-2.33	54	43.48	31.6	6.12	29.53	234	312	A	H
	*	5720	120.89	-	-	112.03	32.04	6.37	29.55	153	331	P	H
	*	5720	111.29	-	-	102.43	32.04	6.37	29.55	153	331	A	H
802.11n													H
HT20													H
CH 144		5400	58.21	-15.79	74	50.02	31.6	6.12	29.53	210	157	P	V
5720MHz		5400	48.92	-5.08	54	40.73	31.6	6.12	29.53	210	157	A	V
	*	5720	117.32	-	-	108.46	32.04	6.37	29.55	232	356	P	V
	*	5720	108.67	-	-	99.81	32.04	6.37	29.55	232	356	A	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. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11440	47.66	-26.34	74	53.57	39.98	10.43	56.32	100	0	P	H
		17160	47.96	-20.24	68.2	51.44	40.08	12.86	56.42	100	0	P	H
802.11n													H
HT20													H
CH 144		11440	49.56	-24.44	74	55.47	39.98	10.43	56.32	100	0	P	V
5720MHz		17160	48.54	-19.66	68.2	52.02	40.08	12.86	56.42	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. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5390	57.23	-16.77	74	49.08	31.56	6.12	29.53	202	330	P	H
		5390	49.97	-4.03	54	41.82	31.56	6.12	29.53	202	330	A	H
	*	5710	118.17	-	-	109.34	32.02	6.36	29.55	221	333	P	H
	*	5710	110.02	-	-	101.19	32.02	6.36	29.55	221	333	A	H
802.11n													H
HT40													H
CH 142		5390	56.44	-17.56	74	48.29	31.56	6.12	29.53	259	354	P	V
5710MHz		5390	48.16	-5.84	54	40.01	31.56	6.12	29.53	259	354	A	V
	*	5710	115.93	-	-	107.1	32.02	6.36	29.55	259	354	P	V
	*	5710	107.71	-	-	98.88	32.02	6.36	29.55	259	354	A	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. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11420	48.46	-25.54	74	54.43	39.94	10.42	56.33	100	0	P	H
		17130	47.61	-20.59	68.2	50.99	40.14	12.84	56.36	100	0	P	H
802.11n													H
HT40													H
CH 142		11420	47.57	-26.43	74	53.54	39.94	10.42	56.33	100	0	P	V
5710MHz		17130	48.65	-19.55	68.2	52.03	40.14	12.84	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 - Straddle Channel

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5370	59.58	-14.42	74	51.51	31.48	6.12	29.53	124	332	P	H
		5370	50.9	-3.1	54	42.83	31.48	6.12	29.53	124	332	A	H
	*	5690	118.01	-	-	109.22	31.98	6.36	29.55	124	332	P	H
	*	5690	108.89	-	-	100.1	31.98	6.36	29.55	124	332	A	H
802.11ac													H
VHT80													H
CH 138	*	5690	113.89	-	-	105.1	31.98	6.36	29.55	331	360	P	V
5690MHz	*	5690	105.22	-	-	96.43	31.98	6.36	29.55	331	360	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. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11380	49.88	-24.12	74	55.94	39.88	10.41	56.35	100	0	P	H
		17070	48.76	-19.44	68.2	52.06	40.17	12.77	56.24	100	0	P	H
802.11ac													H
VHT80													H
CH 138		11380	48.59	-25.41	74	54.65	39.88	10.41	56.35	100	0	P	V
5690MHz		17070	48.7	-19.5	68.2	52	40.17	12.77	56.24	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 802.11a (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		132.82	27.32	-16.18	43.5	41.29	17.22	1	32.19	-	-	P	H
		231.76	30.1	-15.9	46	44.92	16.01	1.31	32.14	-	-	P	H
		370.47	34.69	-11.31	46	44.71	20.51	1.63	32.16	-	-	P	H
		417.03	35.03	-10.97	46	43.28	22.14	1.77	32.16	100	0	P	H
		854.5	32.59	-13.41	46	32.8	28.8	2.62	31.63	-	-	P	H
		958.29	33.73	-12.27	46	31.29	30.67	2.68	30.91	-	-	P	H
													H
													H
													H
													H
													H
802.11a													H
LF		30.97	32.66	-7.34	40	40.18	24.31	0.46	32.29	-	-	P	V
		39.7	33.01	-6.99	40	45.17	19.61	0.52	32.29	100	0	P	V
		162.89	24.82	-18.68	43.5	39.99	15.91	1.09	32.17	-	-	P	V
		335.55	29.57	-16.43	46	40.59	19.62	1.51	32.15	-	-	P	V
		417.03	34.77	-11.23	46	43.02	22.14	1.77	32.16	-	-	P	V
		944.71	33.51	-12.49	46	31.69	30.19	2.66	31.03	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.

<TXBF Mode>

Band 1 - 5150~5250MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2+3		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5135.2	60.88	-13.12	74	52.29	32	6.07	29.48	252	295	P	H
		5148.2	51.92	-2.08	54	43.33	32	6.08	29.49	252	295	A	H
	*	5180	118.28	-	-	109.85	31.82	6.1	29.49	252	295	P	H
	*	5180	110.61	-	-	102.18	31.82	6.1	29.49	252	295	A	H
802.11ac													H
VHT20													H
CH 36		5147.68	56.96	-17.04	74	48.37	32	6.08	29.49	387	275	P	V
5180MHz		5150	50.04	-3.96	54	41.45	32	6.08	29.49	387	275	A	V
	*	5180	114.59	-	-	106.16	31.82	6.1	29.49	387	275	P	V
	*	5180	107.53	-	-	99.1	31.82	6.1	29.49	387	275	A	V
													V
													V
		5147.16	56.68	-17.32	74	48.09	32	6.08	29.49	245	295	P	H
		5150	46.36	-7.64	54	37.77	32	6.08	29.49	245	295	A	H
	*	5200	121.34	-	-	113.03	31.7	6.11	29.5	245	295	P	H
	*	5200	111.68	-	-	103.37	31.7	6.11	29.5	245	295	A	H
802.11ac		5453.84	52.96	-21.04	74	44.52	31.81	6.17	29.54	245	295	P	H
VHT20		5355.28	44.01	-9.99	54	35.99	31.42	6.12	29.52	245	295	A	H
CH 40		5149.5	51.41	-22.59	74	42.82	32	6.08	29.49	387	280	P	V
5200MHz		5150	43.92	-10.08	54	35.33	32	6.08	29.49	387	280	A	V
	*	5200	116.55	-	-	108.24	31.7	6.11	29.5	387	280	P	V
	*	5200	108.94	-	-	100.63	31.7	6.11	29.5	387	280	A	V
		5366.76	49.34	-24.66	74	41.28	31.47	6.12	29.53	387	280	P	V
		5453.84	40.52	-13.48	54	32.08	31.81	6.17	29.54	387	280	A	V

		5126.14	52.37	-21.63	74	43.78	32	6.07	29.48	245	308	P	H
		5127.5	42.84	-11.16	54	34.25	32	6.07	29.48	245	308	A	H
	*	5240	120.42	-	-	112.35	31.46	6.11	29.5	245	308	P	H
	*	5240	112.58	-	-	104.51	31.46	6.11	29.5	245	308	A	H
802.11ac		5407.2	53.68	-20.32	74	45.45	31.63	6.13	29.53	245	308	P	H
VHT20		5392.08	44.18	-9.82	54	36.02	31.57	6.12	29.53	245	308	A	H
CH 48		5120.7	50.72	-23.28	74	42.13	32	6.07	29.48	332	278	P	V
5240MHz		5124.78	41.54	-12.46	54	32.95	32	6.07	29.48	332	278	A	V
	*	5240	117.62	-	-	109.55	31.46	6.11	29.5	332	278	P	V
	*	5240	109.28	-	-	101.21	31.46	6.11	29.5	332	278	A	V
		5439.6	49.97	-24.03	74	41.59	31.76	6.16	29.54	332	278	P	V
		5406.96	40.87	-13.13	54	32.64	31.63	6.13	29.53	332	278	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10360	47.46	-20.74	68.2	54.77	39.74	9.91	56.96	100	0	P	H
		15540	45.24	-28.76	74	50.48	38.76	12.65	56.65	100	0	P	H
802.11ac													H
VHT20													H
CH 36		10360	47.44	-20.76	68.2	54.75	39.74	9.91	56.96	100	0	P	V
5180MHz		15540	45.28	-28.72	74	50.52	38.76	12.65	56.65	100	0	P	V
													V
													V
		10400	48.21	-19.99	68.2	55.32	39.9	9.93	56.94	100	0	P	H
		15600	46.62	-27.38	74	52.12	38.4	12.68	56.58	100	0	P	H
802.11ac													H
VHT20													H
CH 40		10400	48.87	-19.33	68.2	55.98	39.9	9.93	56.94	100	0	P	V
5200MHz		15600	46.71	-27.29	74	52.21	38.4	12.68	56.58	100	0	P	V
													V
													V
		10480	48.6	-19.6	68.2	55.56	39.98	9.97	56.91	100	0	P	H
		15720	44.26	-29.74	74	49.86	38.1	12.74	56.44	100	0	P	H
802.11ac													H
VHT20													H
CH 48		10480	49.57	-18.63	68.2	56.53	39.98	9.97	56.91	100	0	P	V
5240MHz		15720	45.05	-28.95	74	50.65	38.1	12.74	56.44	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5147.68	60.22	-13.78	74	51.63	32	6.08	29.49	238	304	P	H
		5150	51.03	-2.97	54	42.44	32	6.08	29.49	238	304	A	H
	*	5190	112.88	-	-	104.51	31.76	6.1	29.49	238	304	P	H
	*	5190	106.49	-	-	98.12	31.76	6.1	29.49	238	304	A	H
802.11ac		5450.48	52.51	-21.49	74	44.08	31.8	6.17	29.54	238	304	P	H
VHT40		5439.84	43.18	-10.82	54	34.8	31.76	6.16	29.54	238	304	A	H
CH 38		5147.94	56.93	-17.07	74	48.34	32	6.08	29.49	389	277	P	V
5190MHz		5146.9	46.86	-7.14	54	38.27	32	6.08	29.49	389	277	A	V
	*	5190	111.36	-	-	102.99	31.76	6.1	29.49	389	277	P	V
	*	5190	104.08	-	-	95.71	31.76	6.1	29.49	389	277	A	V
		5451.32	49.63	-24.37	74	41.2	31.8	6.17	29.54	389	277	P	V
		5456.92	40.36	-13.64	54	31.91	31.81	6.18	29.54	389	277	A	V
		5148.58	60.11	-13.89	74	51.52	32	6.08	29.49	246	310	P	H
		5149.94	52.21	-1.79	54	43.62	32	6.08	29.49	246	310	A	H
	*	5230	119.06	-	-	110.93	31.52	6.11	29.5	246	310	P	H
	*	5230	112.76	-	-	104.63	31.52	6.11	29.5	246	310	A	H
802.11ac		5387.76	54.98	-19.02	74	46.84	31.55	6.12	29.53	246	310	P	H
VHT40		5391.12	45.83	-8.17	54	37.68	31.56	6.12	29.53	246	310	A	H
CH 46		5148.92	58.49	-15.51	74	49.9	32	6.08	29.49	333	278	P	V
5230MHz		5149.26	48.53	-5.47	54	39.94	32	6.08	29.49	333	278	A	V
	*	5230	116.75	-	-	108.62	31.52	6.11	29.5	333	278	P	V
	*	5230	108.19	-	-	100.06	31.52	6.11	29.5	333	278	A	V
		5384.16	50.71	-23.29	74	42.58	31.54	6.12	29.53	333	278	P	V
		5387.04	41.55	-12.45	54	33.41	31.55	6.12	29.53	333	278	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10380	47.22	-20.98	68.2	54.43	39.82	9.92	56.95	100	0	P	H
		15570	45.51	-28.49	74	50.89	38.58	12.66	56.62	100	0	P	H
802.11ac													H
VHT40													H
CH 38		10380	47.46	-20.74	68.2	54.67	39.82	9.92	56.95	100	0	P	V
5190MHz		15570	44.91	-29.09	74	50.29	38.58	12.66	56.62	100	0	P	V
													V
													V
		10460	46.92	-21.28	68.2	53.92	39.96	9.96	56.92	100	0	P	H
		15690	44.26	-29.74	74	49.88	38.13	12.72	56.47	100	0	P	H
802.11ac													H
VHT40													H
CH 46		10460	46.56	-21.64	68.2	53.56	39.96	9.96	56.92	100	0	P	V
5230MHz		15690	43.39	-30.61	74	49.01	38.13	12.72	56.47	100	0	P	V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5119.08	58.37	-15.63	74	49.78	32	6.07	29.48	240	310	P	H
		5146.38	52.33	-1.67	54	43.74	32	6.08	29.49	240	310	A	H
	*	5210	105.37	-	-	97.12	31.64	6.11	29.5	240	310	P	H
	*	5210	100.21	-	-	91.96	31.64	6.11	29.5	240	310	A	H
		5355.56	53.67	-20.33	74	45.65	31.42	6.12	29.52	240	310	P	H
		5350	43.87	-10.13	54	35.87	31.4	6.12	29.52	240	310	A	H
		5141.7	58.98	-15.02	74	50.39	32	6.08	29.49	359	280	P	V
		5145.86	46.53	-7.47	54	37.94	32	6.08	29.49	359	280	A	V
	*	5210	102.5	-	-	94.25	31.64	6.11	29.5	359	280	P	V
	*	5210	95.66	-	-	87.41	31.64	6.11	29.5	359	280	A	V
		5391.96	49.47	-24.53	74	41.31	31.57	6.12	29.53	359	280	P	V
		5358.08	40.51	-13.49	54	32.48	31.43	6.12	29.52	359	280	A	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10420	45.91	-22.29	68.2	52.98	39.92	9.94	56.93	100	0	P	H
		15630	44.89	-29.11	74	50.42	38.31	12.7	56.54	100	0	P	H
802.11ac													H
VHT80													H
CH 42		10420	45.51	-22.69	68.2	52.58	39.92	9.94	56.93	100	0	P	V
5210MHz		15630	44.86	-29.14	74	50.39	38.31	12.7	56.54	100	0	P	V
													V
													V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5122.4	50.92	-23.08	74	42.33	32	6.07	29.48	246	297	P	H
		5147.56	42.16	-11.84	54	33.57	32	6.08	29.49	246	297	A	H
	*	5260	114.55	-	-	106.55	31.4	6.11	29.51	246	297	P	H
	*	5260	105.98	-	-	97.98	31.4	6.11	29.51	246	297	A	H
802.11ac		5413.44	51.19	-22.81	74	42.94	31.65	6.13	29.53	246	297	P	H
VHT20		5439.84	42.62	-11.38	54	34.24	31.76	6.16	29.54	246	297	A	H
CH 52		5073.1	49.89	-24.11	74	41.43	31.89	6.04	29.47	400	4	P	V
5260MHz		5095.88	43.46	-10.54	54	34.91	31.98	6.05	29.48	400	4	A	V
	*	5260	110.63	-	-	102.63	31.4	6.11	29.51	400	4	P	V
	*	5260	101.96	-	-	93.96	31.4	6.11	29.51	400	4	A	V
		5432.88	48.92	-25.08	74	40.58	31.73	6.15	29.54	400	4	P	V
		5423.28	41.58	-12.42	54	33.29	31.69	6.14	29.54	400	4	A	V
		5093.84	50.39	-23.61	74	41.84	31.98	6.05	29.48	237	296	P	H
		5148.24	42.09	-11.91	54	33.5	32	6.08	29.49	237	296	A	H
	*	5300	115.39	-	-	107.39	31.4	6.11	29.51	237	296	P	H
	*	5300	106.44	-	-	98.44	31.4	6.11	29.51	237	296	A	H
802.11ac		5454.24	52.55	-21.45	74	44.11	31.81	6.17	29.54	237	296	P	H
VHT20		5383.92	43.52	-10.48	54	35.39	31.54	6.12	29.53	237	296	A	H
CH 60		5036.72	49.52	-24.48	74	41.22	31.75	6.02	29.47	256	316	P	V
5300MHz		5134.64	43.07	-10.93	54	34.48	32	6.07	29.48	256	316	A	V
	*	5300	112.63	-	-	104.63	31.4	6.11	29.51	256	316	P	V
	*	5300	103.23	-	-	95.23	31.4	6.11	29.51	256	316	A	V
		5381.52	53.48	-20.52	74	45.36	31.53	6.12	29.53	256	316	P	V
		5382	46.79	-7.21	54	38.67	31.53	6.12	29.53	256	316	A	V

	*	5320	116.01	-	-	108.01	31.4	6.12	29.52	233	297	P	H
	*	5320	108.31	-	-	100.31	31.4	6.12	29.52	233	297	A	H
		5367.52	56.16	-17.84	74	48.1	31.47	6.12	29.53	233	297	P	H
		5367.84	49.15	-4.85	54	41.09	31.47	6.12	29.53	233	297	A	H
802.11ac													H
VHT20													H
CH 64	*	5320	111.34	-	-	103.34	31.4	6.12	29.52	400	3	P	V
5320MHz	*	5320	102.48	-	-	94.48	31.4	6.12	29.52	400	3	A	V
		5404.32	52.61	-21.39	74	44.4	31.62	6.12	29.53	400	3	P	V
		5402.24	45.8	-8.2	54	37.6	31.61	6.12	29.53	400	3	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 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10520	47.37	-20.83	68.2	54.27	39.98	10	56.88	100	0	P	H
		15780	45.03	-28.97	74	50.51	38.1	12.78	56.36	100	0	P	H
802.11ac													H
VHT20													H
CH 52		10520	47.68	-20.52	68.2	54.58	39.98	10	56.88	100	0	P	V
5260MHz		15780	44.91	-29.09	74	50.39	38.1	12.78	56.36	100	0	P	V
													V
													V
		10600	47.35	-26.65	74	54.23	39.9	10.04	56.82	100	0	P	H
		15900	45.89	-28.11	74	51.57	37.7	12.84	56.22	100	0	P	H
802.11ac													H
VHT20													H
CH 60		10600	47.7	-26.3	74	54.58	39.9	10.04	56.82	100	0	P	V
5300MHz		15900	46.23	-27.77	74	51.91	37.7	12.84	56.22	100	0	P	V
													V
													V
		10640	48.55	-25.45	74	55.27	40.02	10.05	56.79	100	0	P	H
		15960	44.92	-29.08	74	50.5	37.7	12.87	56.15	100	0	P	H
802.11ac													H
VHT20													H
CH 64		10640	48.61	-25.39	74	55.33	40.02	10.05	56.79	100	0	P	V
5320MHz		15960	44.27	-29.73	74	49.85	37.7	12.87	56.15	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 VHT40 (Band Edge @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5146.54	54.48	-19.52	74	45.89	32	6.08	29.49	245	311	P	H
		5144.84	44.54	-9.46	54	35.95	32	6.08	29.49	245	311	A	H
	*	5270	121.53	-	-	113.53	31.4	6.11	29.51	245	311	P	H
	*	5270	112.53	-	-	104.53	31.4	6.11	29.51	245	311	A	H
802.11ac		5354.4	59.2	-14.8	74	51.18	31.42	6.12	29.52	245	311	P	H
VHT40		5356.08	51.08	-2.92	54	43.06	31.42	6.12	29.52	245	311	A	H
CH 54		5095.2	53.07	-20.93	74	44.52	31.98	6.05	29.48	397	267	P	V
5270MHz		5100.98	44.54	-9.46	54	35.96	32	6.06	29.48	397	267	A	V
	*	5270	116.04	-	-	108.04	31.4	6.11	29.51	397	267	P	V
	*	5270	108.08	-	-	100.08	31.4	6.11	29.51	397	267	A	V
		5355.12	54.25	-19.75	74	46.23	31.42	6.12	29.52	397	267	P	V
		5354.64	45.27	-8.73	54	37.25	31.42	6.12	29.52	397	267	A	V
		5142.46	50.86	-23.14	74	42.27	32	6.08	29.49	243	310	P	H
		5143.82	42.65	-11.35	54	34.06	32	6.08	29.49	243	310	A	H
	*	5310	112.12	-	-	104.12	31.4	6.12	29.52	243	310	P	H
	*	5310	104.41	-	-	96.41	31.4	6.12	29.52	243	310	A	H
802.11ac		5368.56	58.65	-15.35	74	50.59	31.47	6.12	29.53	243	310	P	H
VHT40		5350.08	50.06	-3.94	54	42.06	31.4	6.12	29.52	243	310	A	H
CH 62		5146.2	52.77	-21.23	74	44.18	32	6.08	29.49	388	266	P	V
5310MHz		5132.94	42.86	-11.14	54	34.27	32	6.07	29.48	388	266	A	V
	*	5310	108.62	-	-	100.62	31.4	6.12	29.52	388	266	P	V
	*	5310	99.92	-	-	91.92	31.4	6.12	29.52	388	266	A	V
		5357.04	50.24	-23.76	74	42.21	31.43	6.12	29.52	388	266	P	V
		5388.24	44.88	-9.12	54	36.74	31.55	6.12	29.53	388	266	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 VHT40 (Harmonic @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10540	47.86	-20.34	68.2	54.76	39.96	10.01	56.87	100	0	P	H
		15810	47.88	-26.12	74	53.35	38.06	12.8	56.33	100	0	P	H
802.11ac													H
VHT40													H
CH 54		10540	47.55	-20.65	68.2	54.45	39.96	10.01	56.87	100	0	P	V
5270MHz		15810	45.09	-28.91	74	50.56	38.06	12.8	56.33	100	0	P	V
													V
													V
		10620	47.76	-26.24	74	54.56	39.96	10.04	56.8	100	0	P	H
		15930	45.07	-28.93	74	50.69	37.7	12.86	56.18	100	0	P	H
802.11ac													H
VHT40													H
CH 62		10620	48.11	-25.89	74	54.91	39.96	10.04	56.8	100	0	P	V
5310MHz		15930	45.48	-28.52	74	51.1	37.7	12.86	56.18	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. 2+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5145.86	52.22	-21.78	74	43.63	32	6.08	29.49	238	312	P	H
		5149.6	42.78	-11.22	54	34.19	32	6.08	29.49	238	312	A	H
	*	5290	107.05	-	-	99.05	31.4	6.11	29.51	238	312	P	H
	*	5290	98.74	-	-	90.74	31.4	6.11	29.51	238	312	A	H
802.11ac		5366.4	56.58	-17.42	74	48.52	31.47	6.12	29.53	238	312	P	H
VHT80		5350.8	48.27	-5.73	54	40.27	31.4	6.12	29.52	238	312	A	H
CH 58		5140.42	53.79	-20.21	74	45.2	32	6.08	29.49	361	13	P	V
5290MHz		5101.66	44.13	-9.87	54	35.55	32	6.06	29.48	361	13	A	V
	*	5290	104.59	-	-	96.59	31.4	6.11	29.51	361	13	P	V
	*	5290	93.82	-	-	85.82	31.4	6.11	29.51	361	13	A	V
		5353.68	61.79	-12.21	74	53.78	31.41	6.12	29.52	361	13	P	V
		5352.24	49.14	-4.86	54	41.13	31.41	6.12	29.52	361	13	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. 2+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		10580	47.39	-20.81	68.2	54.28	39.92	10.03	56.84	100	0	P	H
		15870	45.01	-28.99	74	50.63	37.82	12.82	56.26	100	0	P	H
802.11ac													H
VHT80													H
CH 58		10580	46.29	-21.91	68.2	53.18	39.92	10.03	56.84	100	0	P	V
5290MHz		15870	45.76	-28.24	74	51.38	37.82	12.82	56.26	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 VHT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5459.44	60.39	-13.61	74	51.93	31.82	6.18	29.54	251	297	P	H
		5461.68	59.29	-8.91	68.2	50.83	31.82	6.18	29.54	251	297	P	H
		5453.52	49.95	-4.05	54	41.51	31.81	6.17	29.54	251	297	A	H
		5180	59.94	-8.26	68.2	51.51	31.82	6.1	29.49	235	303	P	H
802.11ac	*	5500	116.09	-	-	107.52	31.9	6.22	29.55	251	297	P	H
VHT20	*	5500	107.07	-	-	98.5	31.9	6.22	29.55	251	297	A	H
CH 100													V
5500MHz		5459.92	53.79	-20.21	74	45.33	31.82	6.18	29.54	237	348	P	V
		5466	54.73	-13.47	68.2	46.25	31.83	6.19	29.54	237	348	P	V
		5459.12	45.32	-8.68	54	36.86	31.82	6.18	29.54	237	348	A	V
	*	5500	111.13	-	-	102.56	31.9	6.22	29.55	237	348	P	V
	*	5500	102.28	-	-	93.71	31.9	6.22	29.55	237	348	A	V
		5455.36	52.26	-21.74	74	43.81	31.81	6.18	29.54	252	300	P	H
		5465.68	51.11	-17.09	68.2	42.63	31.83	6.19	29.54	252	300	P	H
		5454.4	43.29	-10.71	54	34.85	31.81	6.17	29.54	252	300	A	H
	*	5580	114.75	-	-	106.16	31.84	6.3	29.55	252	300	P	H
802.11ac	*	5580	106.17	-	-	97.58	31.84	6.3	29.55	252	300	A	H
VHT20		5740.43	49.98	-18.22	68.2	40.99	32.16	6.38	29.55	252	300	P	H
CH 116		5441.92	50.6	-23.4	74	42.21	31.77	6.16	29.54	250	347	P	V
5580MHz		5461.84	48.65	-19.55	68.2	40.19	31.82	6.18	29.54	250	347	P	V
		5458.24	40.91	-13.09	54	32.45	31.82	6.18	29.54	250	347	A	V
	*	5580	110.61	-	-	102.02	31.84	6.3	29.55	250	347	P	V
	*	5580	101.49	-	-	92.9	31.84	6.3	29.55	250	347	A	V
		5736.02	49.66	-18.54	68.2	40.7	32.14	6.37	29.55	250	347	P	V

	*	5700	115.84	-	-	107.03	32	6.36	29.55	232	342	P	H
	*	5700	106.33	-	-	97.52	32	6.36	29.55	232	342	A	H
		5733.16	57.75	-10.45	68.2	48.8	32.13	6.37	29.55	232	342	P	H
													H
802.11ac													H
VHT20													H
CH 140	*	5700	110.74	-	-	101.93	32	6.36	29.55	400	19	P	V
5700MHz	*	5700	102.27	-	-	93.46	32	6.36	29.55	400	19	A	V
		5725.8	55.56	-12.64	68.2	46.64	32.1	6.37	29.55	400	19	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 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11000	47.16	-26.84	74	52.94	40.5	10.22	56.5	100	0	P	H
		16500	46.43	-21.77	68.2	49.94	39.4	12.79	55.7	100	0	P	H
802.11ac													H
VHT20													H
CH 100		11000	48.83	-25.17	74	54.61	40.5	10.22	56.5	100	0	P	V
5500MHz		16500	46.65	-21.55	68.2	50.16	39.4	12.79	55.7	100	0	P	V
													V
													V
		11160	47.02	-26.98	74	53.24	39.92	10.3	56.44	100	0	P	H
		16740	47.6	-20.6	68.2	50.65	40.1	12.74	55.89	100	0	P	H
802.11ac													H
VHT20													H
CH 116		11160	47.78	-26.22	74	54	39.92	10.3	56.44	100	0	P	V
5580MHz		16740	48.22	-19.98	68.2	51.27	40.1	12.74	55.89	100	0	P	V
													V
													V
		11400	47.4	-26.6	74	53.42	39.9	10.42	56.34	100	0	P	H
		17100	46.97	-21.23	68.2	50.57	39.9	12.8	56.3	100	0	P	H
802.11ac													H
VHT20													H
CH 140		11400	48.4	-25.6	74	54.42	39.9	10.42	56.34	100	0	P	V
5700MHz		17100	48.23	-19.97	68.2	51.83	39.9	12.8	56.3	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 VHT40 (Band Edge @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5459.68	59.38	-14.62	74	50.92	31.82	6.18	29.54	241	303	P	H
		5468.32	62.56	-5.64	68.2	54.07	31.84	6.19	29.54	241	303	P	H
		5459.92	52.13	-1.87	54	43.67	31.82	6.18	29.54	241	303	A	H
		5182	59.01	-9.19	68.2	50.59	31.81	6.1	29.49	241	303	P	H
	*	5510	116.2	-	-	107.62	31.9	6.23	29.55	241	303	P	H
802.11ac	*	5510	107.95	-	-	99.37	31.9	6.23	29.55	241	303	A	H
VHT40		5726.57	51.02	-17.18	68.2	42.09	32.11	6.37	29.55	241	303	P	H
CH 102		5458.96	60.38	-13.62	74	51.92	31.82	6.18	29.54	399	25	P	V
5510MHz		5462.56	61.48	-6.72	68.2	53.01	31.83	6.18	29.54	399	25	P	V
		5458.96	46.54	-7.46	54	38.08	31.82	6.18	29.54	399	25	A	V
		5182	55.05	-13.15	68.2	46.63	31.81	6.1	29.49	399	25	P	V
	*	5510	110.52	-	-	101.94	31.9	6.23	29.55	399	25	P	V
	*	5510	101.59	-	-	93.01	31.9	6.23	29.55	399	25	A	V
		5750.51	48.49	-19.71	68.2	39.47	32.2	6.38	29.56	399	25	P	V
		5457.52	54.32	-19.68	74	45.86	31.82	6.18	29.54	247	310	P	H
		5461.6	54.78	-13.42	68.2	46.32	31.82	6.18	29.54	247	310	P	H
		5455.36	45.95	-8.05	54	37.5	31.81	6.18	29.54	247	310	A	H
	*	5550	116.16	-	-	107.54	31.9	6.27	29.55	247	310	P	H
802.11ac	*	5550	107.12	-	-	98.5	31.9	6.27	29.55	247	310	A	H
VHT40		5726.57	50.58	-17.62	68.2	41.65	32.11	6.37	29.55	247	310	P	H
CH 110		5451.28	49.97	-24.03	74	41.54	31.8	6.17	29.54	235	347	P	V
5550MHz		5461.84	50.19	-18.01	68.2	41.73	31.82	6.18	29.54	235	347	P	V
		5458.24	42.41	-11.59	54	33.95	31.82	6.18	29.54	235	347	A	V
	*	5550	110.68	-	-	102.06	31.9	6.27	29.55	235	347	P	V
	*	5550	101.66	-	-	93.04	31.9	6.27	29.55	235	347	A	V
		5734.76	48.69	-19.51	68.2	39.73	32.14	6.37	29.55	235	347	P	V

		5360.85	55.18	-18.82	74	47.14	31.44	6.12	29.52	251	308	P	H
		5467.25	53.9	-14.3	68.2	45.42	31.83	6.19	29.54	251	308	P	H
		5350	47.78	-6.22	54	39.78	31.4	6.12	29.52	251	308	A	H
	*	5670	119.49	-	-	110.81	31.88	6.35	29.55	251	308	P	H
802.11ac	*	5670	111.06	-	-	102.38	31.88	6.35	29.55	251	308	A	H
VHT40		5725	64.74	-3.46	68.2	55.82	32.1	6.37	29.55	251	308	P	H
CH 134		5425.25	49.56	-24.44	74	41.25	31.7	6.15	29.54	249	351	P	V
5670MHz		5467.95	49.45	-18.75	68.2	40.96	31.84	6.19	29.54	249	351	P	V
		5356.3	41.98	-12.02	54	33.95	31.43	6.12	29.52	249	351	A	V
	*	5670	116.02	-	-	107.34	31.88	6.35	29.55	249	351	P	V
	*	5670	107.76	-	-	99.08	31.88	6.35	29.55	249	351	A	V
		5725.94	59.16	-9.04	68.2	50.24	32.1	6.37	29.55	249	351	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 VHT40 (Harmonic @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11020	48.29	-25.71	74	54.13	40.42	10.23	56.49	100	0	P	H
		16530	45.99	-22.21	68.2	49.49	39.43	12.79	55.72	100	0	P	H
802.11ac													H
VHT40													H
CH 102		11020	49.15	-24.85	74	54.99	40.42	10.23	56.49	100	0	P	V
5510MHz		16530	45.97	-22.23	68.2	49.47	39.43	12.79	55.72	100	0	P	V
													V
													V
		11100	47.53	-26.47	74	53.62	40.1	10.27	56.46	100	0	P	H
		16650	47.66	-20.54	68.2	51.01	39.7	12.77	55.82	100	0	P	H
802.11ac													H
VHT40													H
CH 110		11100	48.43	-25.57	74	54.52	40.1	10.27	56.46	100	0	P	V
5550MHz		16650	47.54	-20.66	68.2	50.89	39.7	12.77	55.82	100	0	P	V
													V
													V
		11340	47.57	-26.43	74	53.7	39.84	10.39	56.36	100	0	P	H
		17010	48.63	-19.57	68.2	52.06	39.99	12.7	56.12	100	0	P	H
802.11ac													H
VHT40													H
CH 134		11340	48.77	-25.23	74	54.9	39.84	10.39	56.36	100	0	P	V
5670MHz		17010	48.16	-20.04	68.2	51.59	39.99	12.7	56.12	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. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5453.2	60.16	-13.84	74	51.72	31.81	6.17	29.54	252	307	P	H
		5464.48	60.95	-7.25	68.2	52.48	31.83	6.18	29.54	252	307	P	H
		5456.32	50.31	-3.69	54	41.86	31.81	6.18	29.54	252	307	A	H
	*	5530	109.13	-	-	100.53	31.9	6.25	29.55	252	307	P	H
802.11ac	*	5530	98.99	-	-	90.39	31.9	6.25	29.55	252	307	A	H
VHT80		5759.33	50.85	-17.35	68.2	41.81	32.22	6.38	29.56	252	307	P	H
CH 106		5455.36	60.44	-13.56	74	51.99	31.81	6.18	29.54	400	16	P	V
5530MHz		5460.64	56.23	-11.97	68.2	47.77	31.82	6.18	29.54	400	16	P	V
		5459.44	51.81	-2.19	54	43.35	31.82	6.18	29.54	400	16	A	V
	*	5530	103.72	-	-	95.12	31.9	6.25	29.55	400	16	P	V
	*	5530	94.44	-	-	85.84	31.9	6.25	29.55	400	16	A	V
		5730.35	48.79	-19.41	68.2	39.85	32.12	6.37	29.55	400	16	P	V
		5458.24	68.16	-5.84	74	59.7	31.82	6.18	29.54	239	301	P	H
		5468.8	63.91	-4.29	68.2	55.42	31.84	6.19	29.54	239	301	P	H
		5453.68	50.92	-3.08	54	42.48	31.81	6.17	29.54	239	301	A	H
	*	5610	113.52	-	-	104.95	31.8	6.32	29.55	239	301	P	H
802.11ac	*	5610	102.66	-	-	94.09	31.8	6.32	29.55	239	301	A	H
VHT80		5735.075	54.23	-13.97	68.2	45.27	32.14	6.37	29.55	239	301	P	H
CH 122		5453.68	63	-11	74	54.56	31.81	6.17	29.54	347	30	P	V
5610MHz		5462.56	63.45	-4.75	68.2	54.98	31.83	6.18	29.54	347	30	P	V
		5453.2	48.75	-5.25	54	40.31	31.81	6.17	29.54	347	30	A	V
	*	5610	110.38	-	-	101.81	31.8	6.32	29.55	347	30	P	V
	*	5610	99.84	-	-	91.27	31.8	6.32	29.55	347	30	A	V
		5737.91	50.99	-17.21	68.2	42.01	32.15	6.38	29.55	347	30	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. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11060	47.98	-26.02	74	53.95	40.26	10.25	56.48	100	0	P	H
		16590	46.86	-21.34	68.2	50.37	39.49	12.77	55.77	100	0	P	H
802.11ac													H
VHT80													H
CH 106		11060	47.64	-26.36	74	53.61	40.26	10.25	56.48	100	0	P	V
5530MHz		16590	46.94	-21.26	68.2	50.45	39.49	12.77	55.77	100	0	P	V
													V
													V
		11220	47.1	-26.9	74	53.38	39.8	10.33	56.41	100	0	P	H
		16830	48.18	-20.02	68.2	51.13	40.28	12.73	55.96	100	0	P	H
802.11ac													H
VHT80													H
CH 122		11220	46.45	-27.55	74	52.73	39.8	10.33	56.41	100	0	P	V
5610MHz		16830	47.52	-20.68	68.2	50.47	40.28	12.73	55.96	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 VHT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
	*	5720	113.8	-	-	104.9	32.08	6.37	29.55	229	190	P	H
	*	5720	105.6	-	-	96.7	32.08	6.37	29.55	229	190	A	H
													H
													H
802.11ac													H
VHT20													H
CH 144	*	5720	110.58	-	-	101.68	32.08	6.37	29.55	222	350	P	V
5720MHz	*	5720	102.3	-	-	93.4	32.08	6.37	29.55	222	350	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 VHT20 (Harmonic @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11440	48	-26	74	53.99	39.9	10.43	56.32	100	0	P	H
		17160	47.33	-20.87	68.2	50.99	39.9	12.86	56.42	100	0	P	H
802.11ac													H
VHT20													H
CH 144		11440	47.86	-26.14	74	53.85	39.9	10.43	56.32	100	0	P	V
5720MHz		17160	47.57	-20.63	68.2	51.23	39.9	12.86	56.42	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 VHT40 (Band Edge @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5390	58.2	-15.8	74	50.05	31.56	6.12	29.53	240	312	P	H
		5390	49.01	-4.99	54	40.86	31.56	6.12	29.53	240	312	A	H
	*	5710	119.3	-	-	110.45	32.04	6.36	29.55	255	308	P	H
	*	5710	111.58	-	-	102.73	32.04	6.36	29.55	255	308	A	H
802.11ac													H
VHT40													H
CH 142	*	5710	115.53	-	-	106.68	32.04	6.36	29.55	247	358	P	V
5710MHz	*	5710	107.87	-	-	99.02	32.04	6.36	29.55	247	358	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 VHT40 (Harmonic @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11420	48.78	-25.22	74	54.79	39.9	10.42	56.33	100	0	P	H
		17130	47.44	-20.76	68.2	51.06	39.9	12.84	56.36	100	0	P	H
802.11ac													H
VHT40													H
CH 142		11420	47.26	-26.74	74	53.27	39.9	10.42	56.33	100	0	P	V
5710MHz		17130	47.67	-20.53	68.2	51.29	39.9	12.84	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 - Straddle Channel

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5690	113.23	-	-	104.46	31.96	6.36	29.55	219	160	P	H
	*	5690	106.16	-	-	97.39	31.96	6.36	29.55	219	160	A	H
													H
													H
802.11ac													H
VHT80													H
CH 138	*	5690	110.78	-	-	102.01	31.96	6.36	29.55	266	356	P	V
5690MHz	*	5690	101.69	-	-	92.92	31.96	6.36	29.55	266	356	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. 2+3	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11380	47.23	-26.77	74	53.29	39.88	10.41	56.35	100	0	P	H
		17070	48.75	-19.45	68.2	52.29	39.93	12.77	56.24	100	0	P	H
802.11ac													H
VHT80													H
CH 138		11380	47.58	-26.42	74	53.64	39.88	10.41	56.35	100	0	P	V
5690MHz		17070	47.71	-20.49	68.2	51.25	39.93	12.77	56.24	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 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 LF		97.9	33.05	-10.45	43.5	49.05	15.4	0.81	32.21	-	-	P	H
		125.06	30.92	-12.58	43.5	44.94	17.2	0.97	32.19	-	-	P	H
		233.7	38.61	-7.39	46	53.2	16.24	1.31	32.14	100	0	P	H
		416.06	31.96	-14.04	46	40.23	22.12	1.77	32.16	-	-	P	H
		700.27	32.69	-13.31	46	36.42	26.11	2.25	32.09	-	-	P	H
		958.29	33.92	-12.08	46	31.48	30.67	2.68	30.91	-	-	P	H
													H
													H
													H
													H
													H
													H
		34.85	33.78	-6.22	40	43.21	22.39	0.47	32.29	100	0	P	V
		94.02	36.75	-6.75	43.5	53.29	14.9	0.78	32.22	-	-	P	V
		125.06	33.71	-9.79	43.5	47.73	17.2	0.97	32.19	-	-	P	V
		233.7	30.47	-15.53	46	45.06	16.24	1.31	32.14	-	-	P	V
		411.21	32.26	-13.74	46	40.78	21.87	1.77	32.16	-	-	P	V
		957.32	33.54	-12.46	46	31.13	30.65	2.68	30.92	-	-	P	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	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

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

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

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path 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) + Path 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 D. Radiated Spurious Emission

Test Engineer :	Ryan Lin, JC Liang and Wilson Wu	**Temperature :**	21.5~23.5°C
		Relative Humidity :	46.5~49.5%

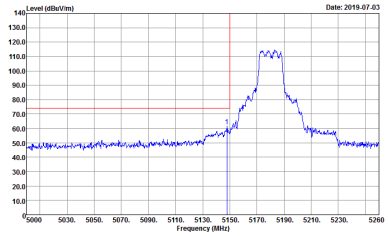
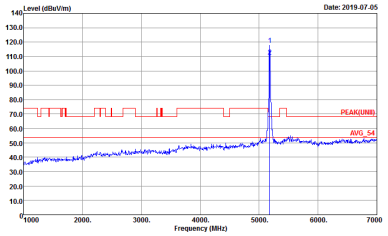
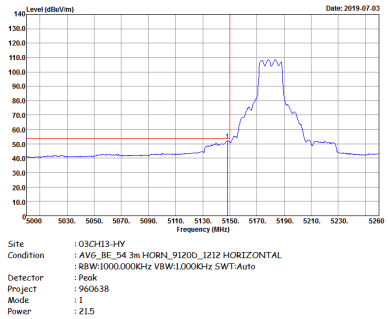
Note symbol

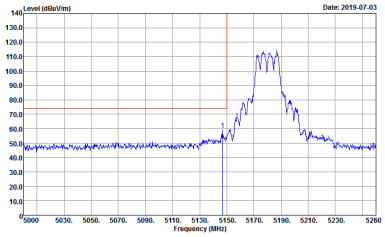
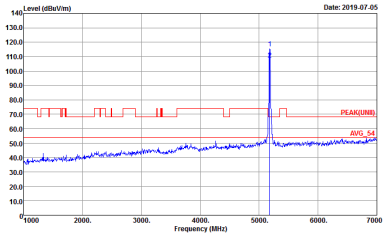
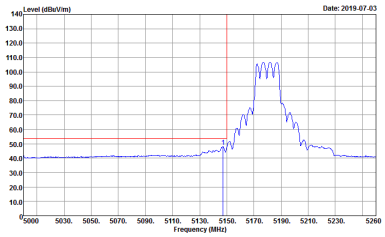
-L	**Low channel location**
-R	**High channel location**

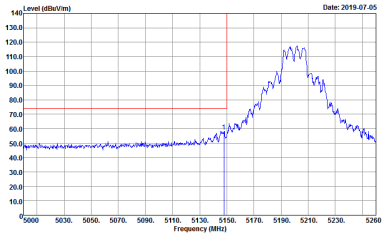
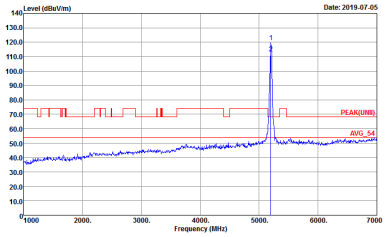
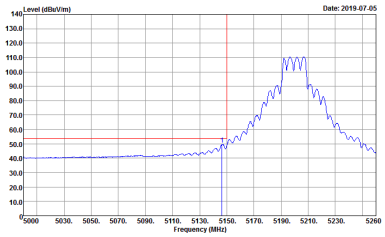
<CDD Mode>

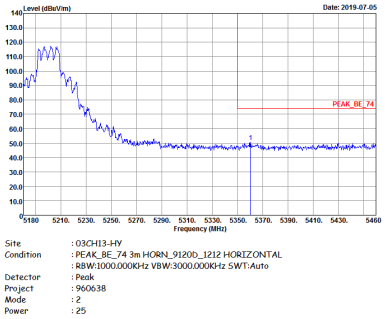
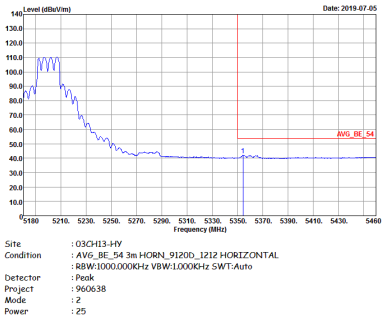
Band 1 - 5150~5250MHz

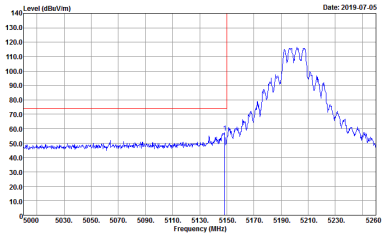
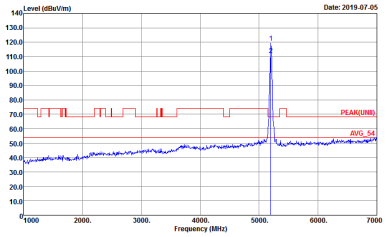
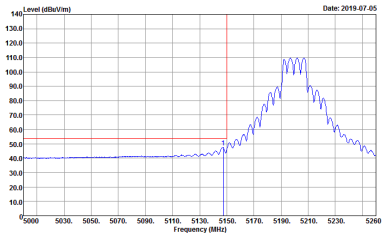
WIFI 802.11a (Band Edge @ 3m)

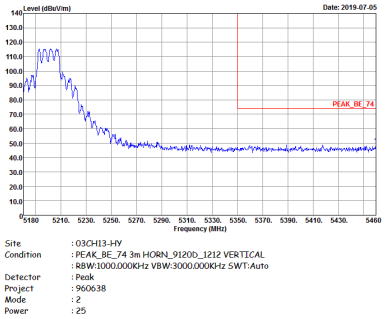
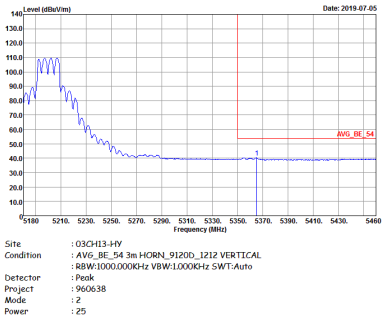
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

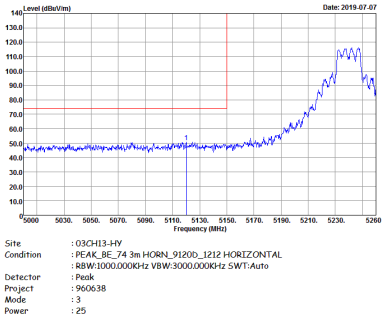
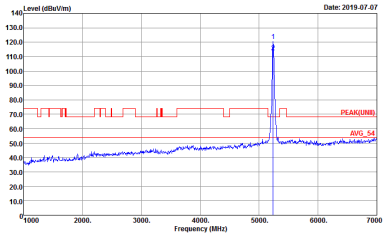
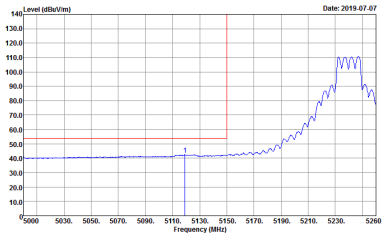
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 1 Power : 21.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 1 Power : 21.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 1 Power : 21.5	Left blank

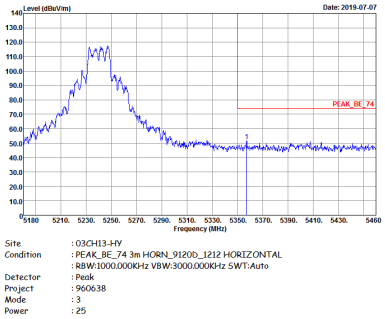
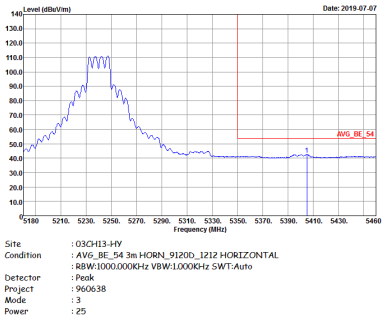
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH40 5200MHz - L	
2+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 2 Power : 25	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 2 Power : 25
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 2 Power : 25	Left blank

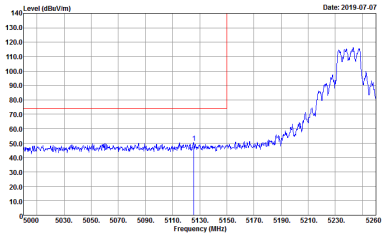
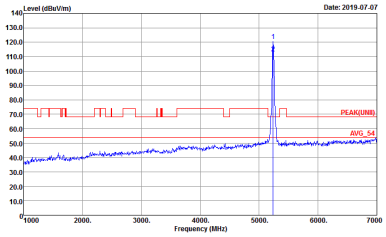
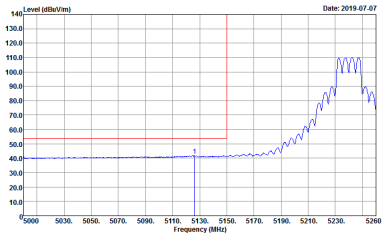
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH40 5200MHz - R	
2+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 2 Power : 25	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 2 Power : 25	Left blank

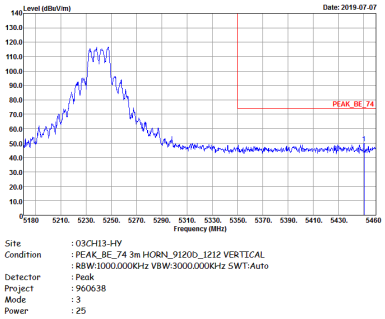
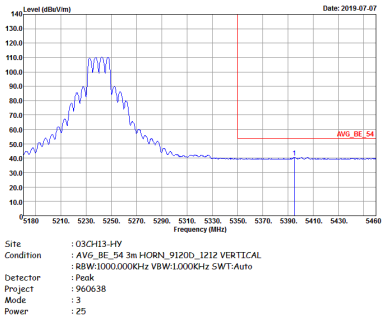
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH40 5200MHz - L	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 2 Power : 25	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 2 Power : 25
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 2 Power : 25	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH40 5200MHz - R	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 2 Power : 25	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 2 Power : 25	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 3 Power : 25	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 3 Power : 25
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 3 Power : 25	Left blank

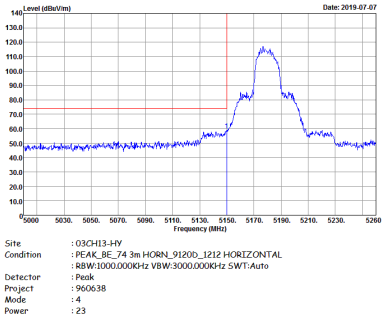
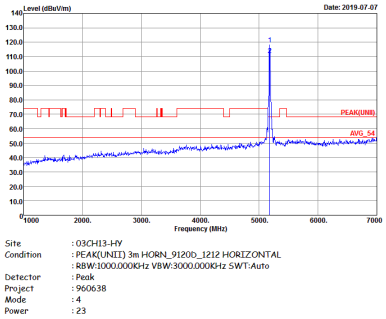
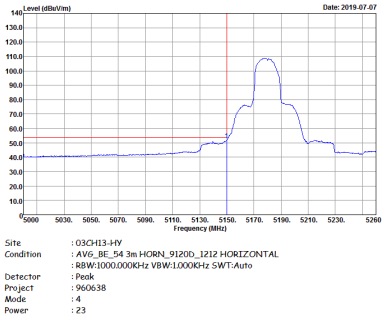
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 3 Power : 25	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 3 Power : 25	Left blank

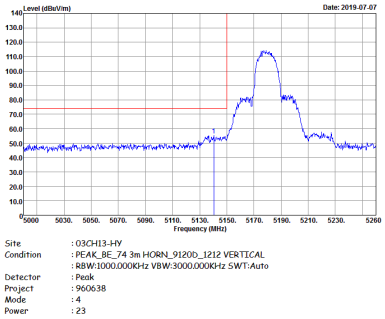
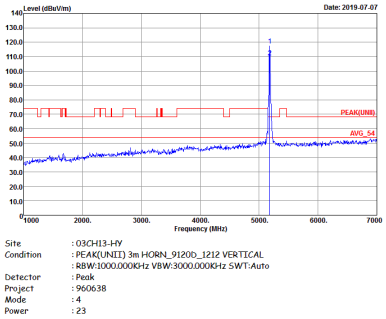
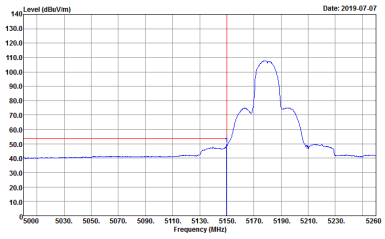
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 3 Power : 25	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 3 Power : 25
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 3 Power : 25	Left blank

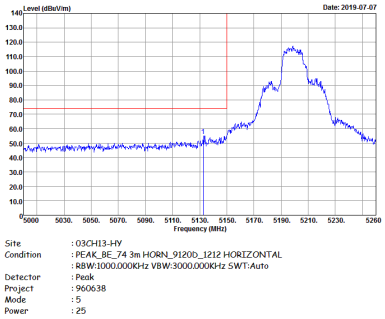
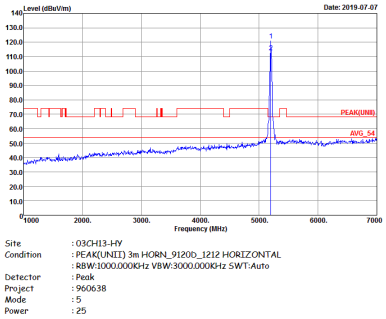
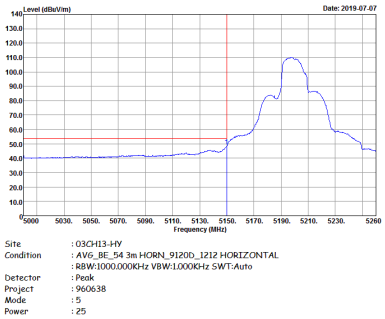
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 3 Power : 25	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 3 Power : 25	Left blank

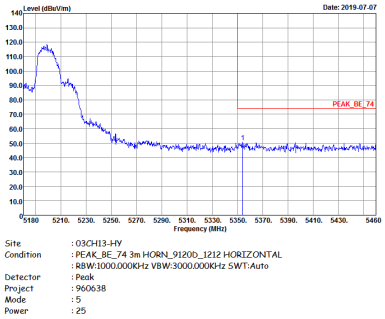
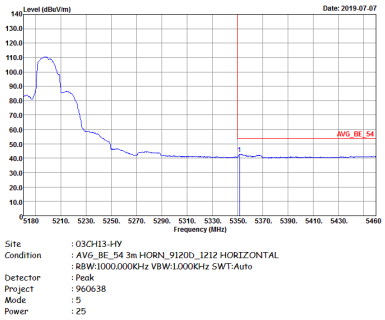
Band 1 5150~5250MHz

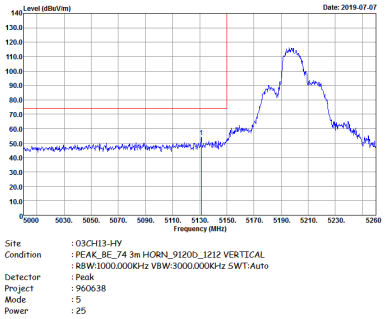
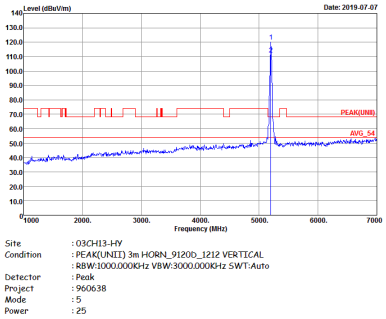
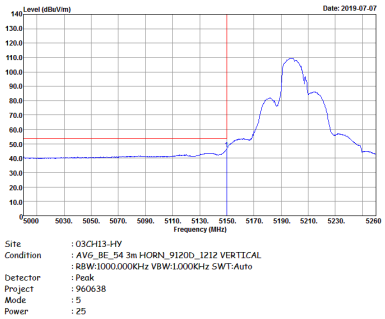
WIFI 802.11n HT20 (Band Edge @ 3m)

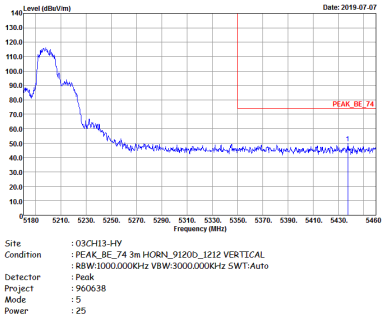
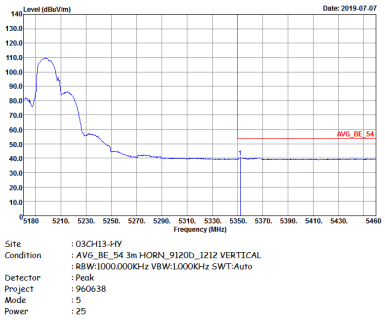
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

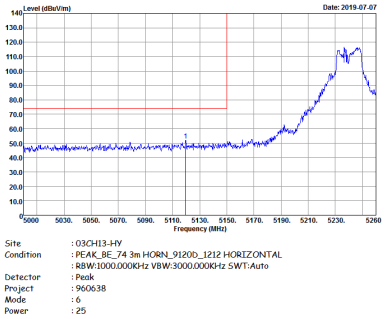
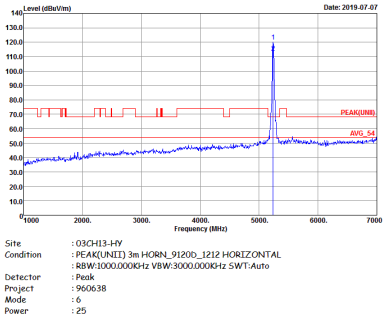
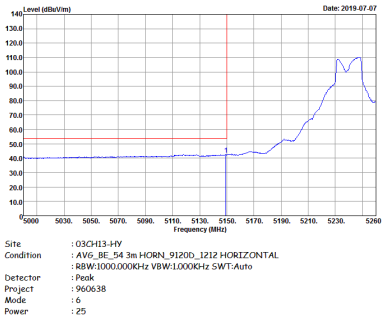
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 4 Power : 23	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 4 Power : 23
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 4 Power : 23	Left blank

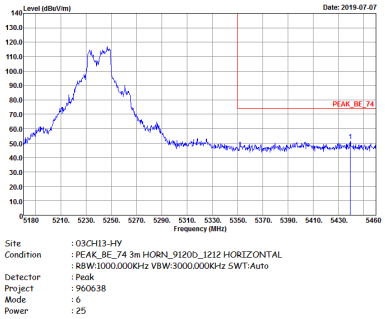
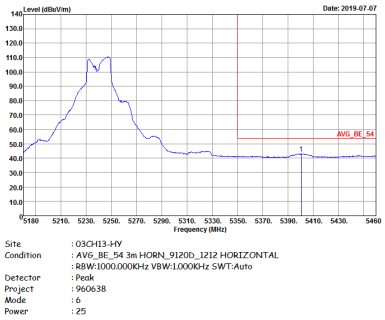
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH40 5200MHz - L	
2+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 5 Power : 25	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 5 Power : 25
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 5 Power : 25	Left blank

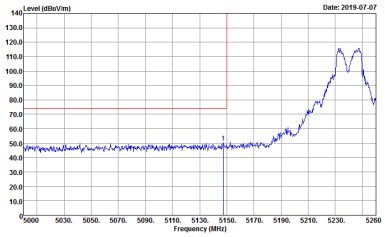
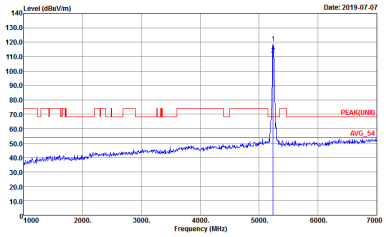
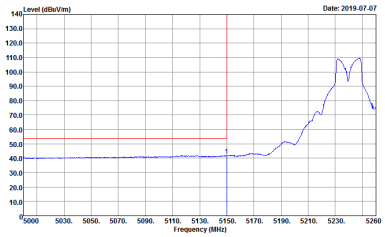
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH40 5200MHz - R	
2+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

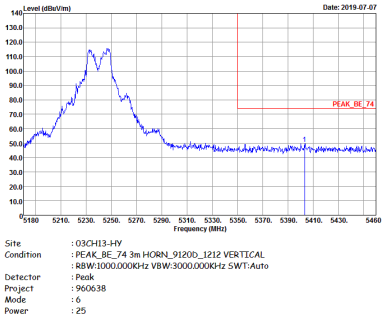
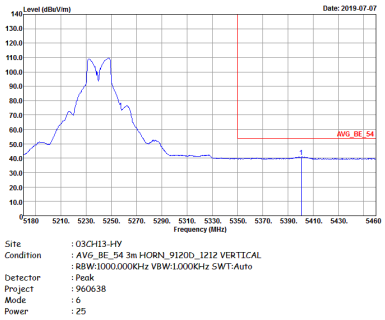
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH40 5200MHz - L	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 5 Power : 25	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 5 Power : 25
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 5 Power : 25	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH40 5200MHz - R	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 5 Power : 25	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 5 Power : 25	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 6 Power : 25	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 6 Power : 25
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 6 Power : 25	Left blank

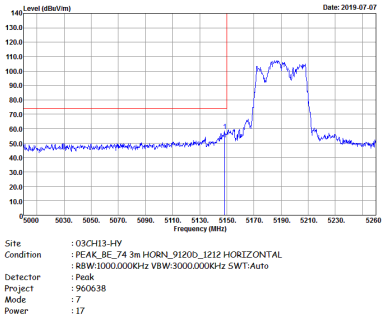
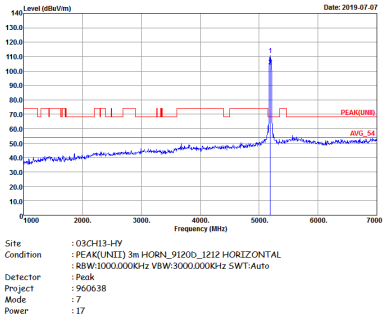
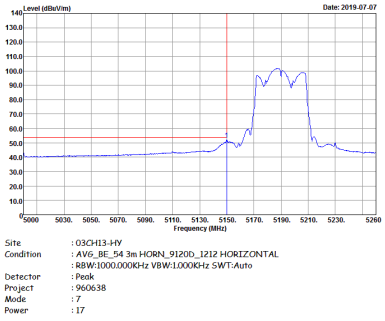
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

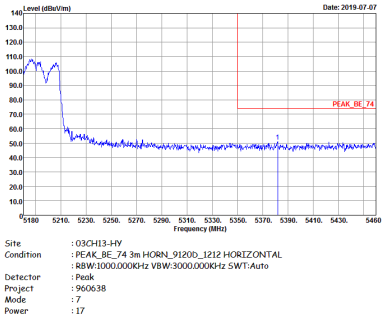
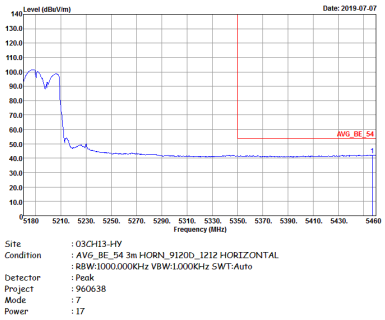
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 6 Power : 25	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 6 Power : 25
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 6 Power : 25	Left blank

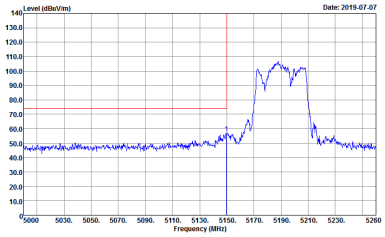
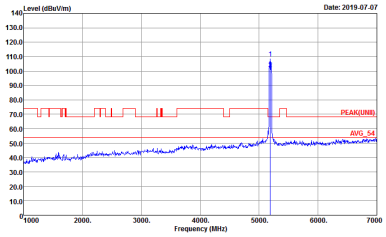
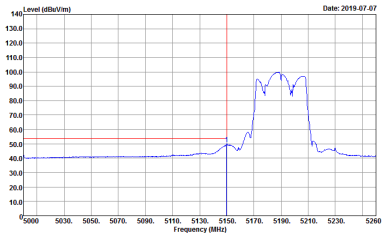
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 6 Power : 25	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 6 Power : 25	Left blank

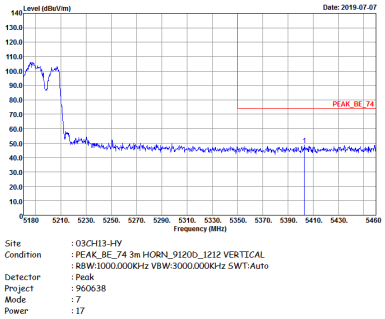
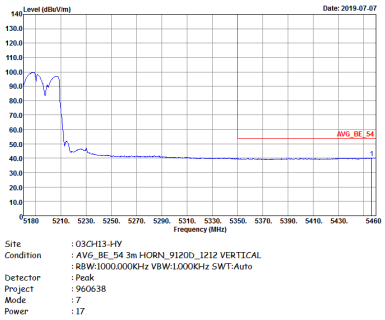
Band 1 5150~5250MHz

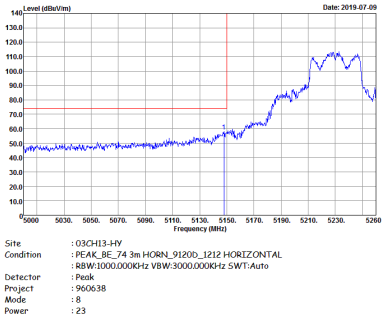
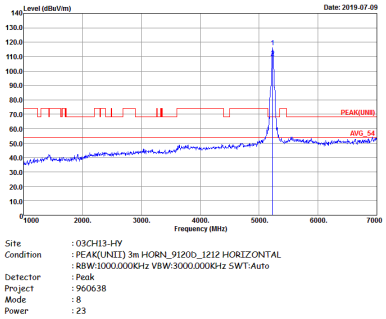
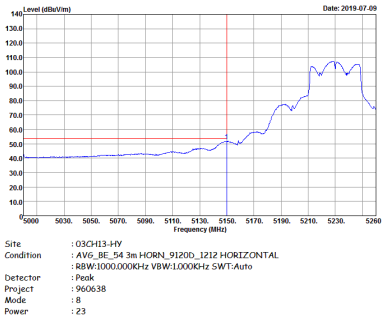
WIFI 802.11n HT40 (Band Edge @ 3m)

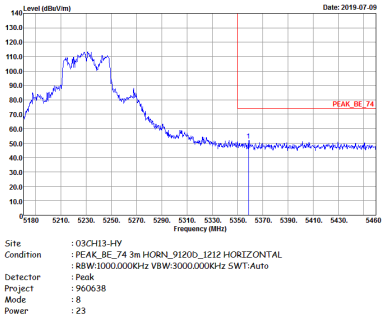
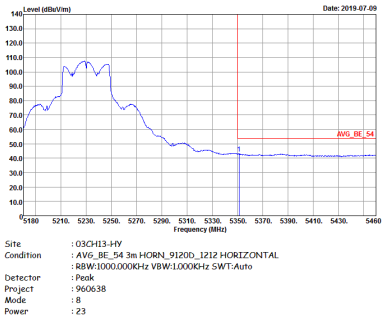
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
2+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

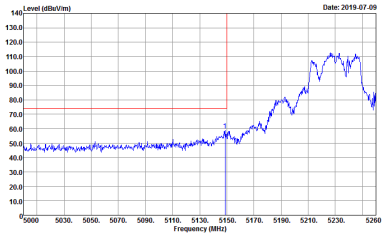
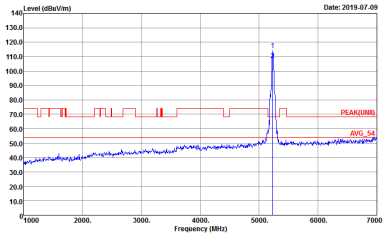
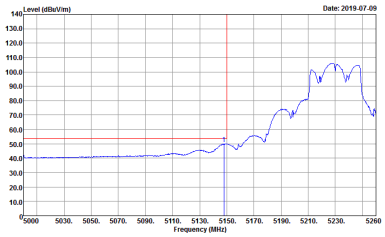
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
2+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 7 Power : 17	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 7 Power : 17	Left blank

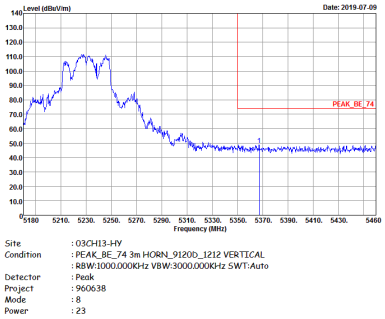
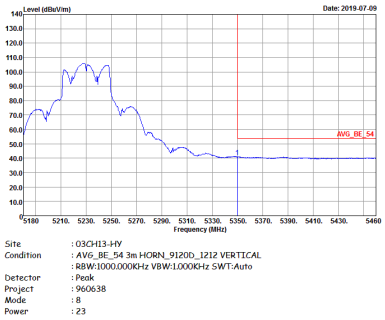
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 7 Power : 17	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 7 Power : 17
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 7 Power : 17	Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
2+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
2+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

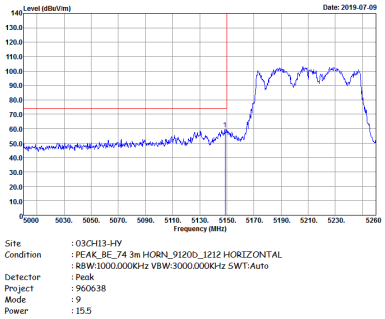
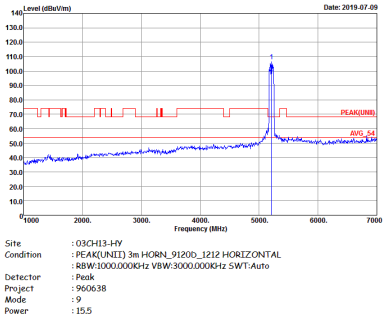
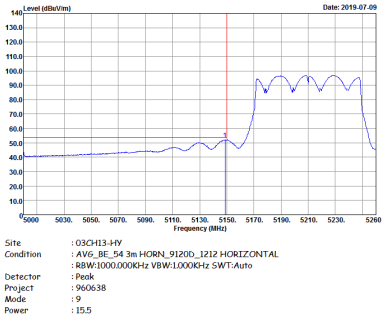
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
2+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

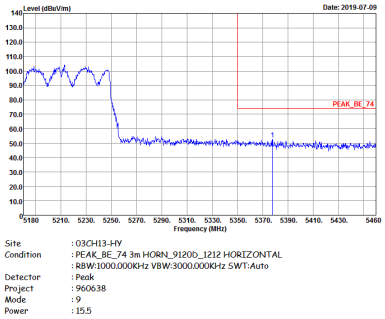
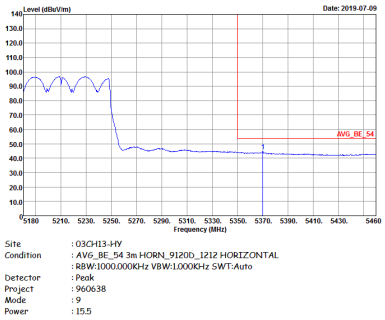
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 8 Power : 23	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 8 Power : 23
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 8 Power : 23	Left blank

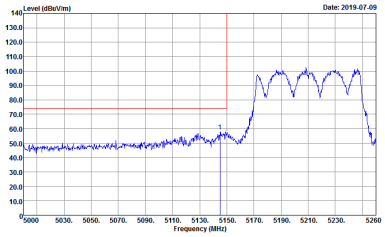
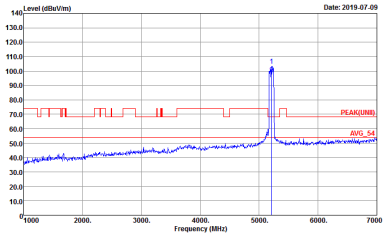
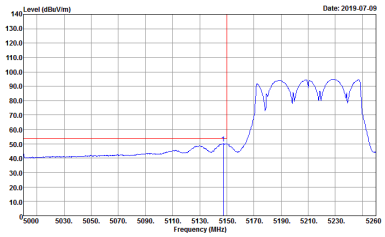
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
2+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

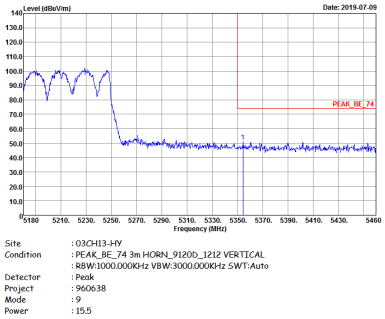
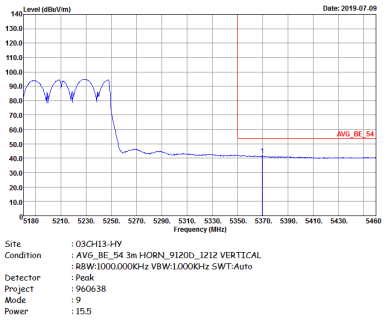
Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
2+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

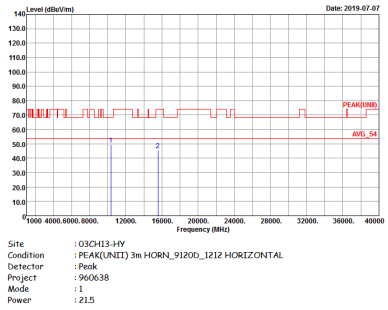
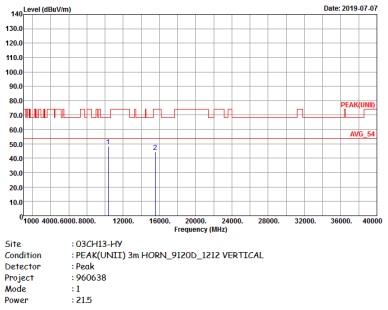
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
2+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

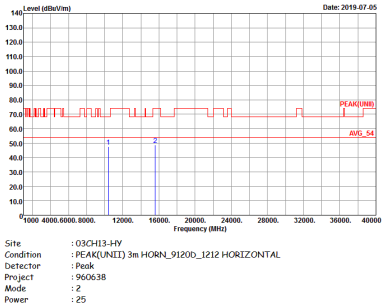
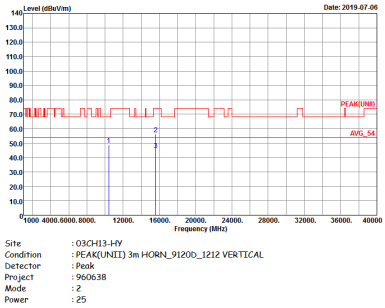
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 9 Power : 15.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 9 Power : 15.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 9 Power : 15.5	Left blank

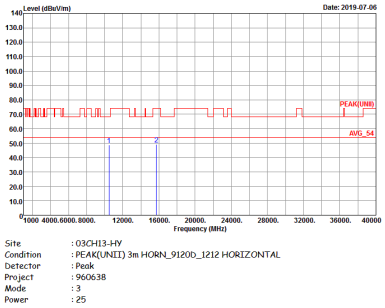
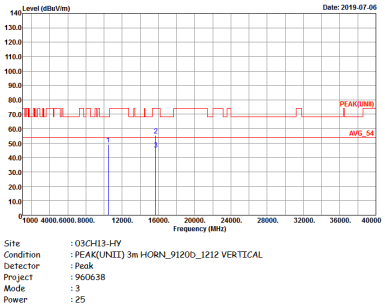
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 9 Power : 15.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 9 Power : 15.5	Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

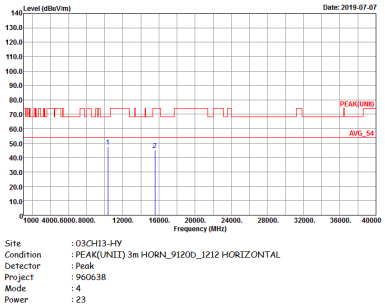
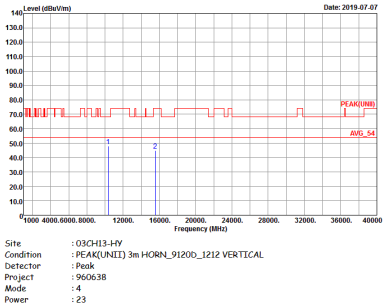
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
2+3	Horizontal	Vertical
Peak Avg.		

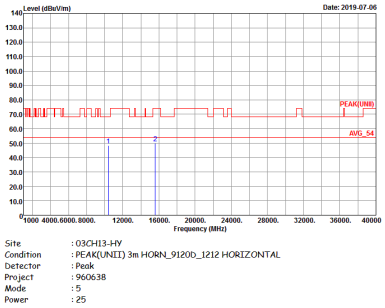
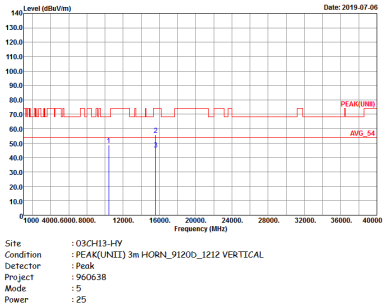
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH40 5200MHz	
2+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 HORIZONTAL Detector : Peak Project : 960638 Mode : 2 Power : 25	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL Detector : Peak Project : 960638 Mode : 2 Power : 25

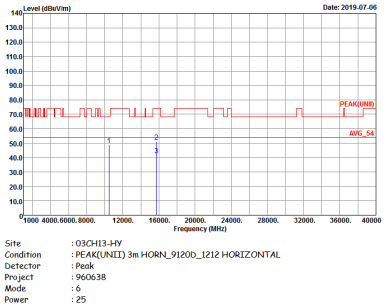
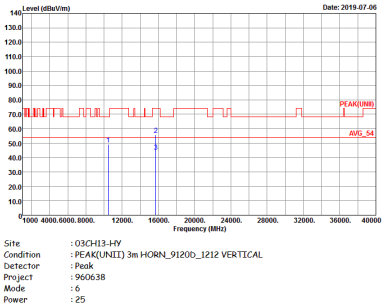
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
2+3	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

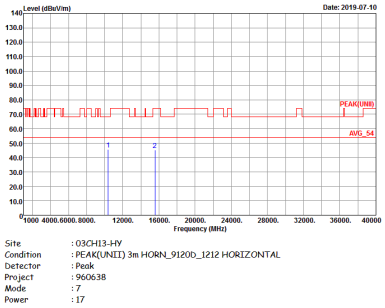
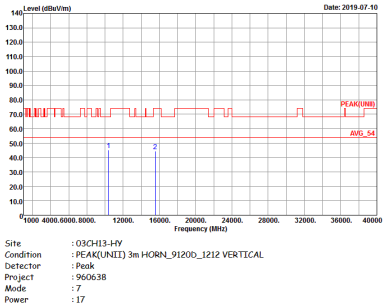
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
2+3	Horizontal	Vertical
Peak Avg.		

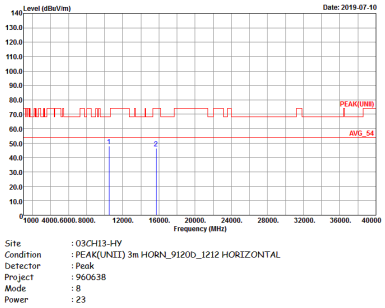
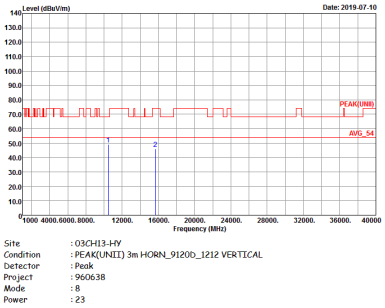
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH40 5200MHz	
2+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 HORIZONTAL Detector : Peak Project : 960638 Mode : 5 Power : 25	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL Detector : Peak Project : 960638 Mode : 5 Power : 25

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
2+3	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz

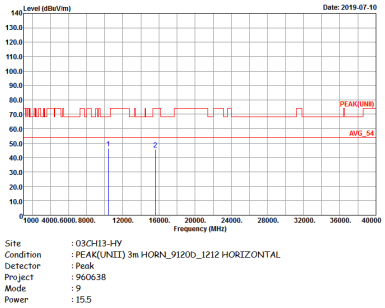
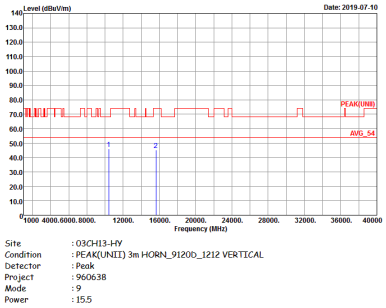
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
2+3	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
2+3	Horizontal	Vertical
Peak Avg.		

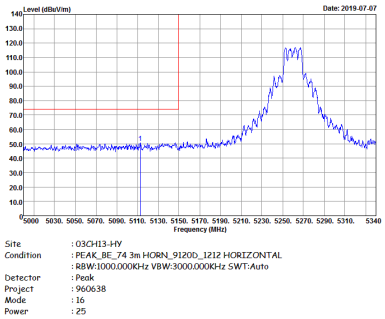
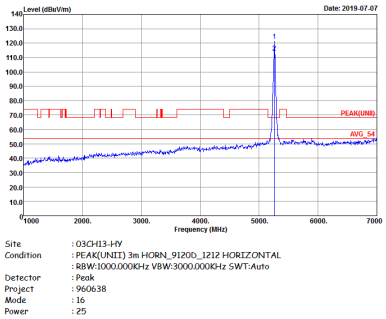
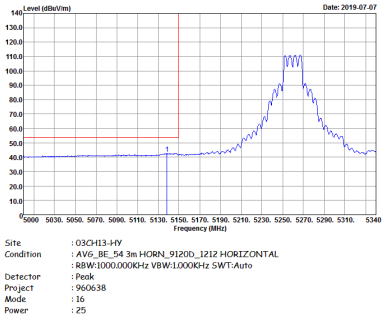
Band 1 5150~5250MHz

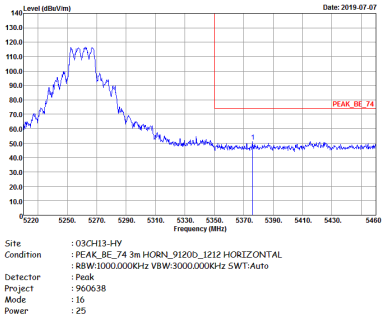
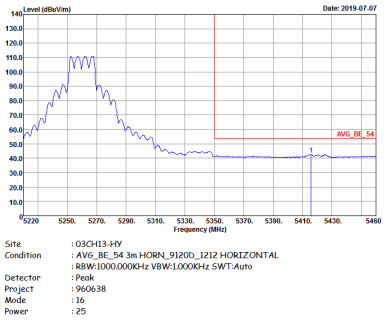
WIFI 802.11ac VHT80 (Harmonic @ 3m)

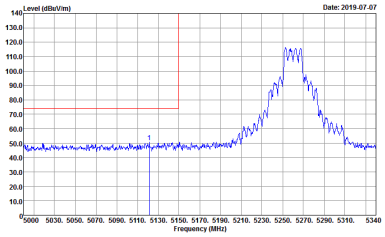
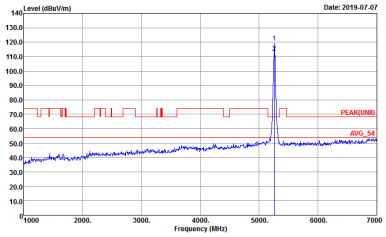
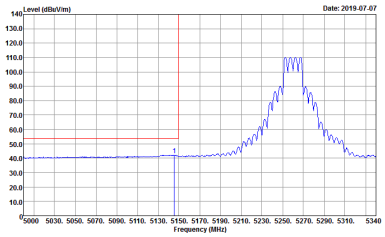
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
2+3	Horizontal	Vertical
Peak Avg.		

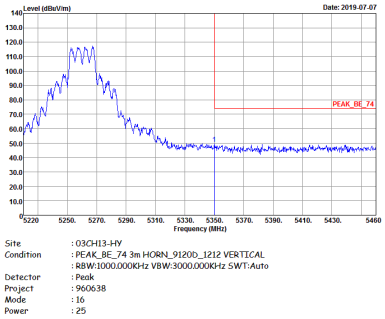
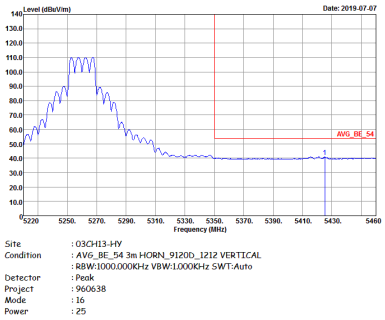
Band 2 - 5250~5350MHz

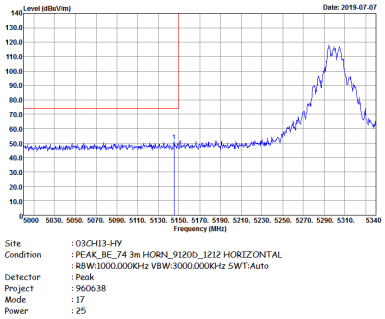
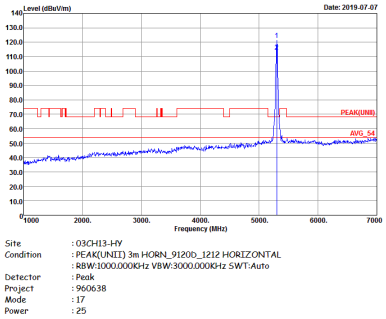
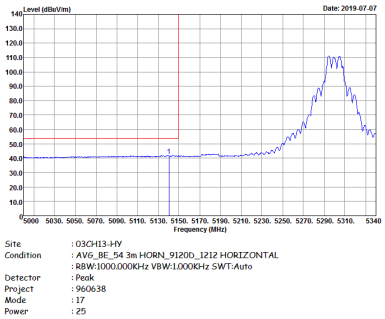
WIFI 802.11a (Band Edge @ 3m)

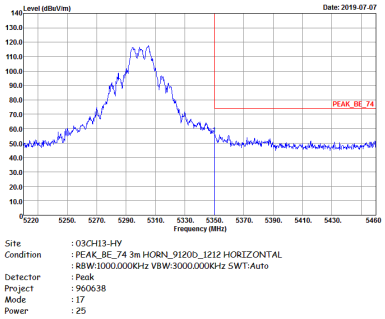
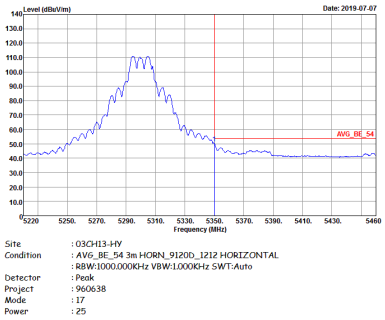
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
2+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

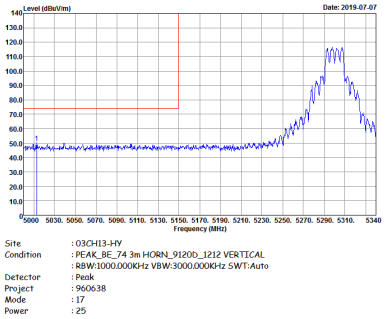
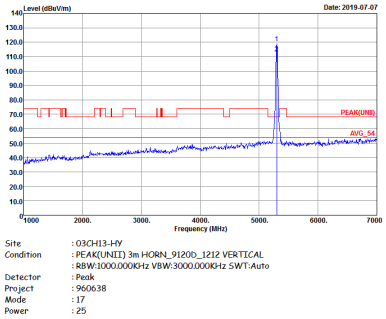
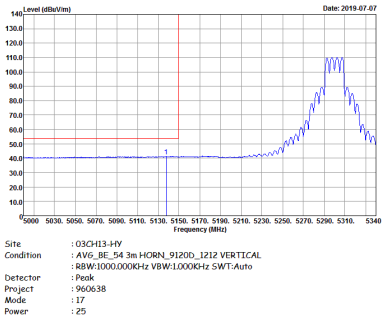
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
2+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 16 Power : 25	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 16 Power : 25	Left blank

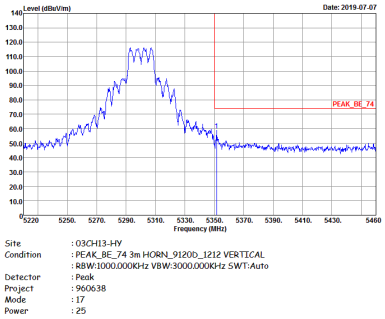
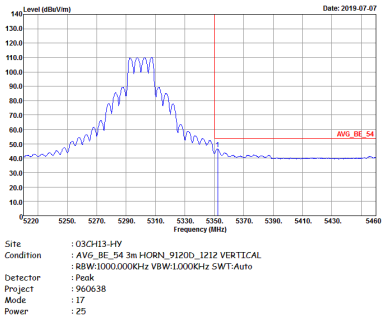
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 16 Power : 25	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 16 Power : 25
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 16 Power : 25	Left blank

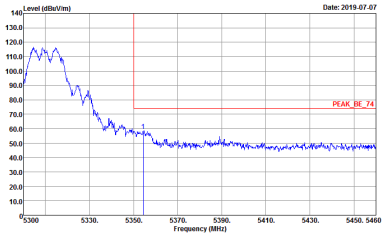
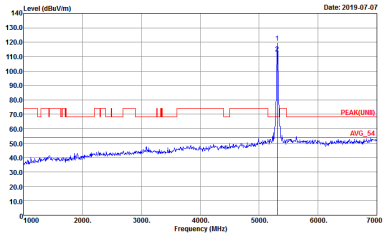
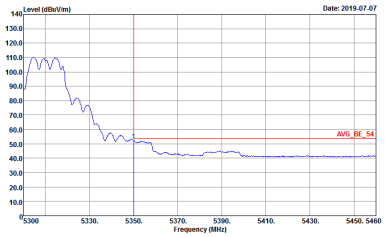
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 16 Power : 25	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 16 Power : 25	Left blank

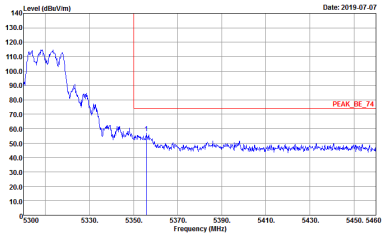
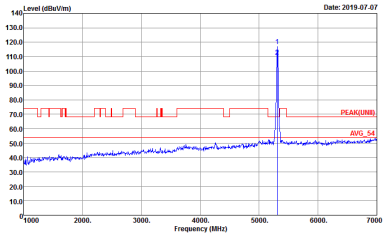
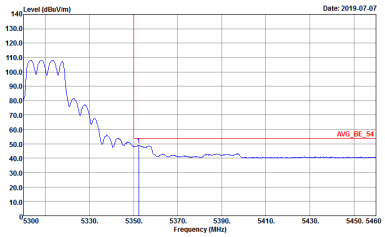
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
2+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
2+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 17 Power : 25	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 17 Power : 25	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
2+3	Vertical	Fundamental
Peak		
Avg.		Left blank

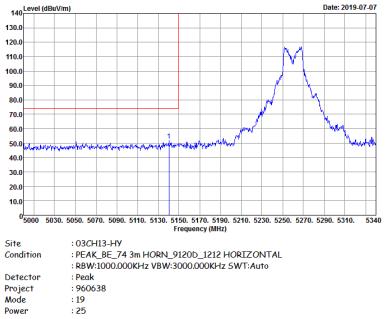
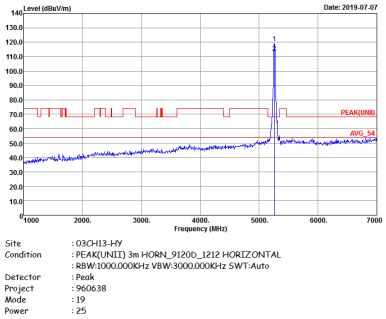
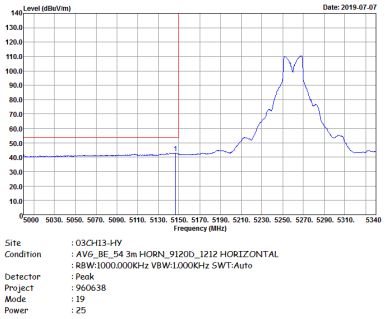
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 17 Power : 25	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 17 Power : 25	Left blank

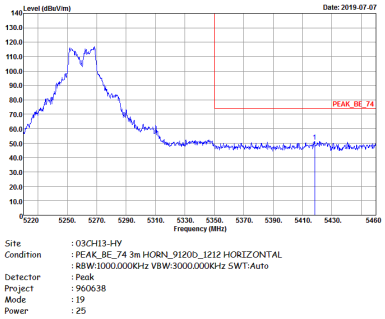
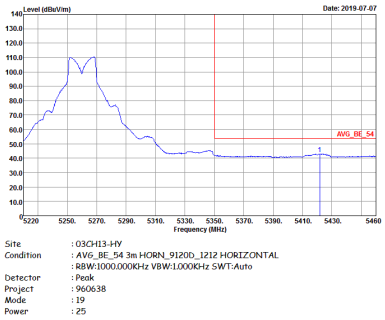
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
2+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 18 Power : 23.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 18 Power : 23.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 18 Power : 23.5	Left blank

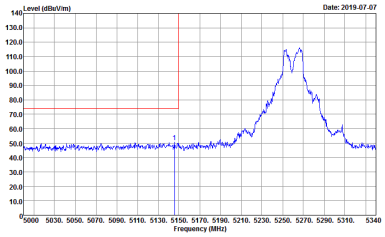
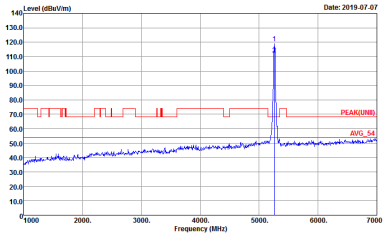
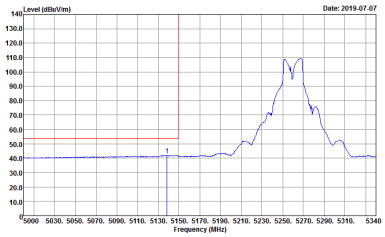
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 18 Power : 23.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 18 Power : 23.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 18 Power : 23.5	Left blank

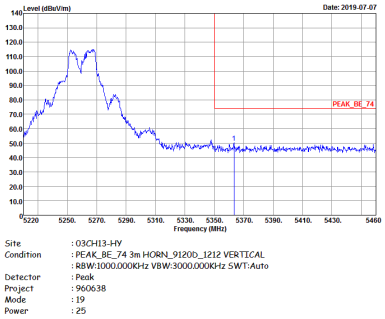
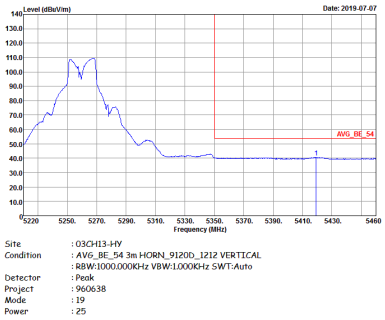
Band 2 5250~5350MHz

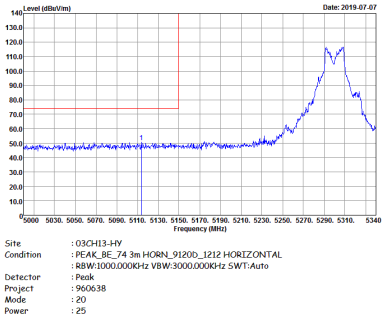
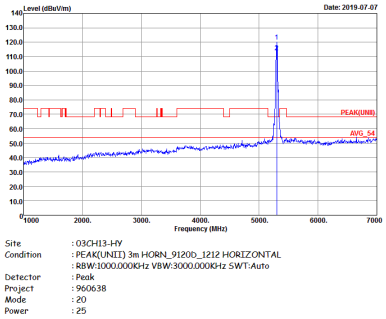
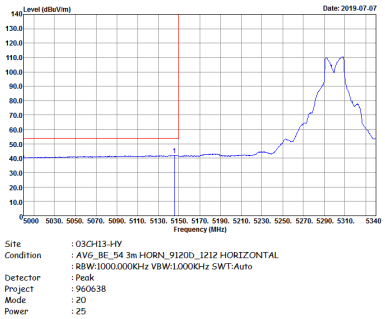
WIFI 802.11n HT20 (Band Edge @ 3m)

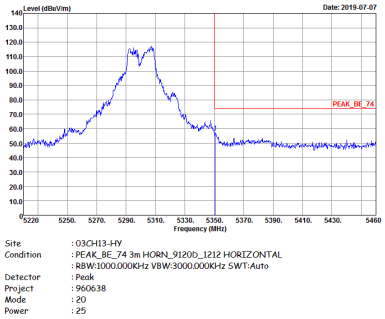
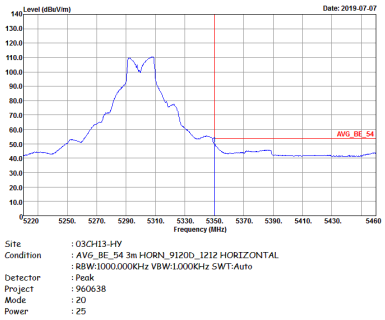
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
2+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

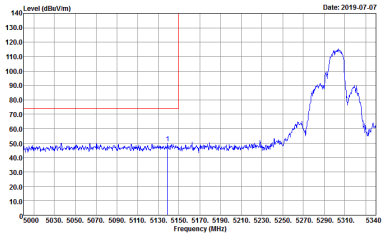
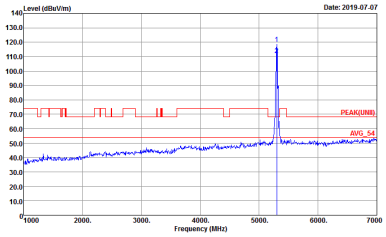
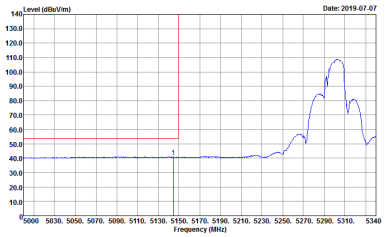
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
2+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 19 Power : 25	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 19 Power : 25	Left blank

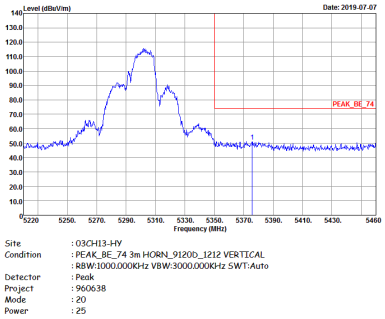
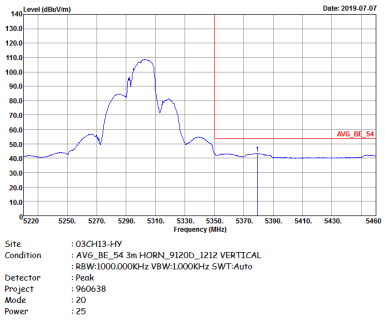
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 19 Power : 25	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 19 Power : 25
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 19 Power : 25	Left blank

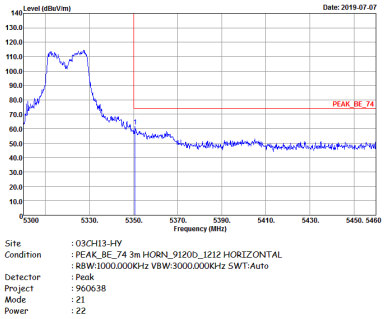
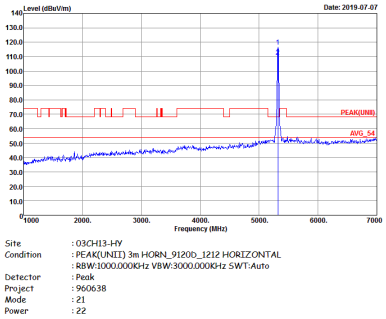
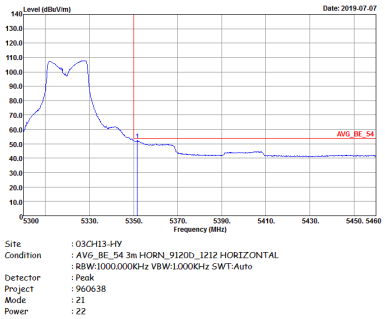
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 19 Power : 25	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 19 Power : 25	Left blank

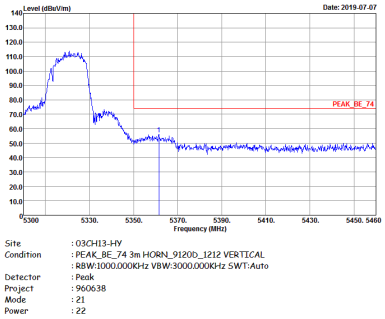
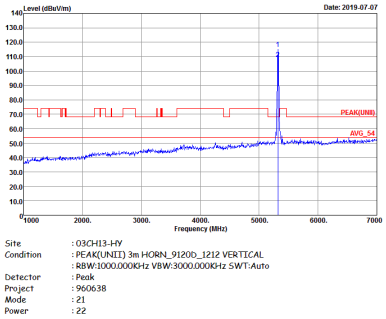
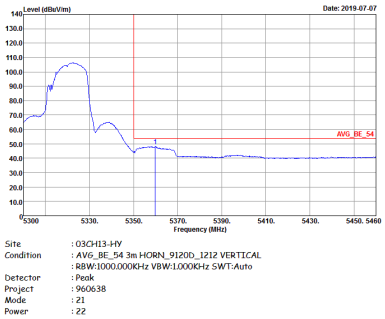
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
2+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 20 Power : 25	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 20 Power : 25
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 20 Power : 25	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
2+3	Horizontal	Vertical
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 20 Power : 25	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 20 Power : 25	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 20 Power : 25	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 20 Power : 25
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 20 Power : 25	Left blank

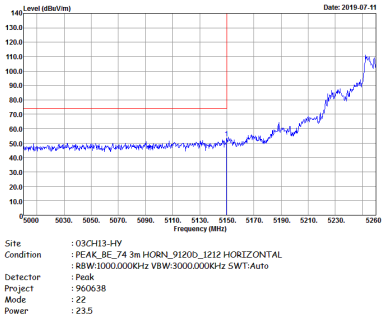
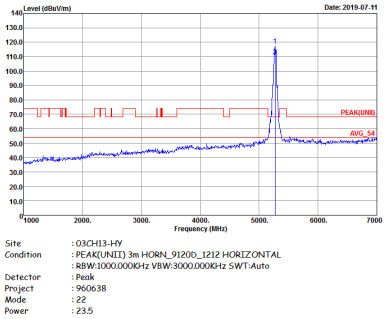
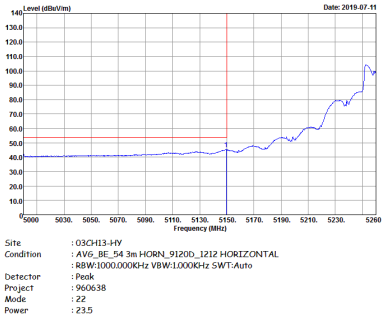
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 20 Power : 25	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 20 Power : 25	Left blank

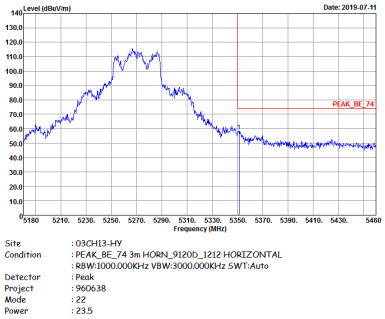
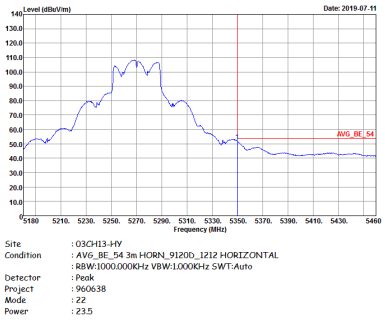
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
2+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 21 Power : 22	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 21 Power : 22
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 21 Power : 22	Left blank

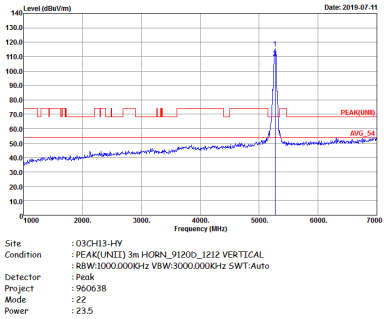
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 21 Power : 22	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 21 Power : 22
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 21 Power : 22	Left blank

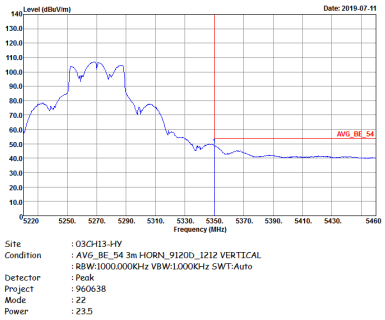
Band 2 5250~5350MHz

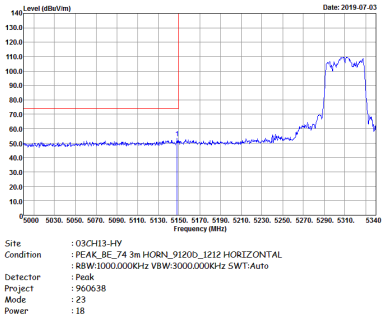
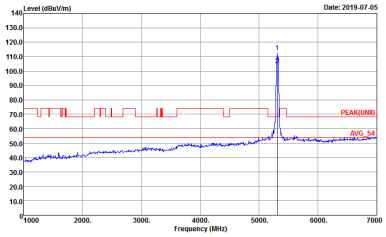
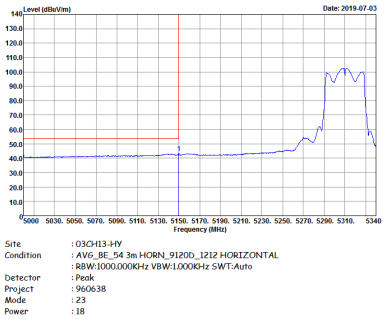
WIFI 802.11n HT40 (Band Edge @ 3m)

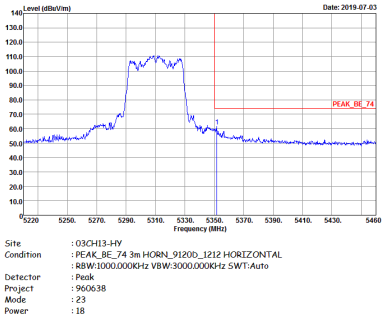
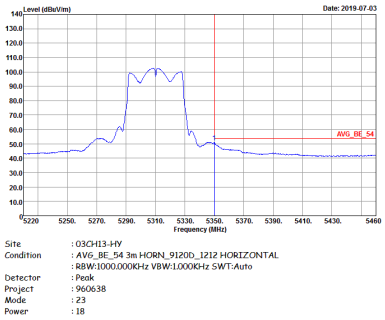
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - L	
2+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

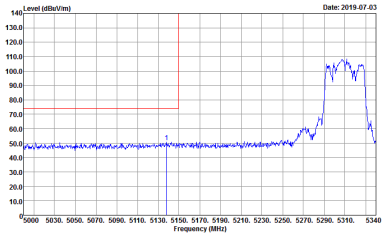
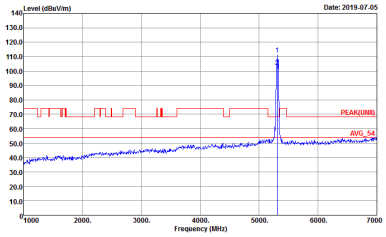
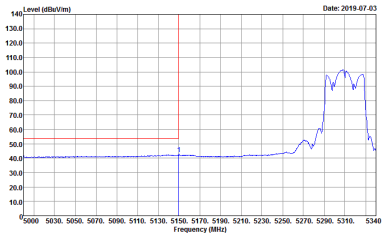
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - R	
2+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

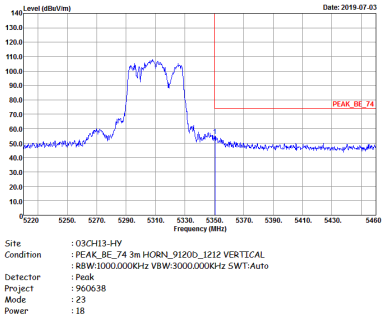
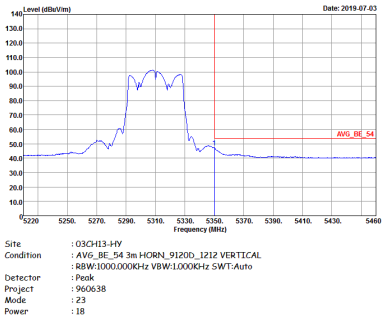
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - L	
2+3	Vertical	Vertical
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 22 Power : 23.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 22 Power : 23.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 22 Power : 23.5	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270MHz - R	
2+3	Vertical	Vertical
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 22 Power : 23.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 22 Power : 23.5	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - L	
2+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 23 Power : 18	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 23 Power : 18
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 23 Power : 18	Left blank

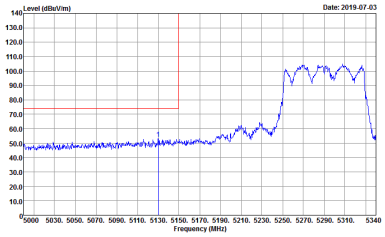
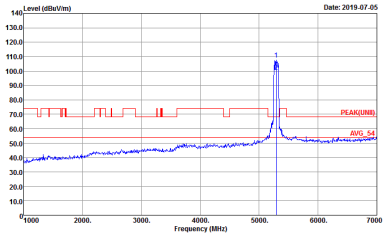
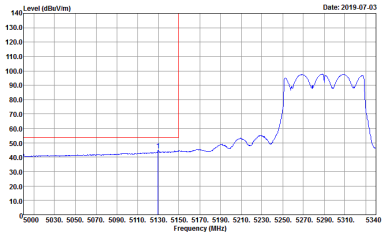
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - R	
2+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 23 Power : 18	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 23 Power : 18	Left blank

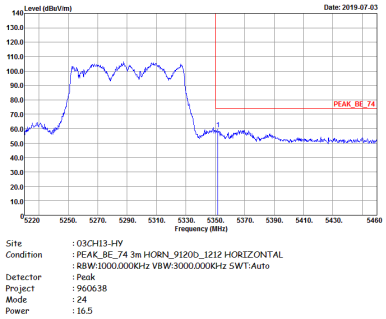
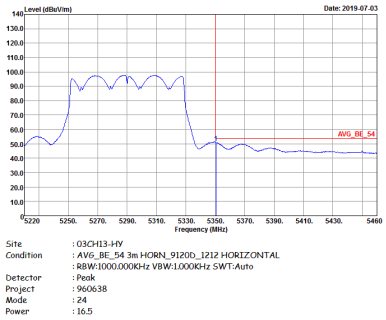
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - L	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 23 Power : 18	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 23 Power : 18
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 23 Power : 18	Left blank

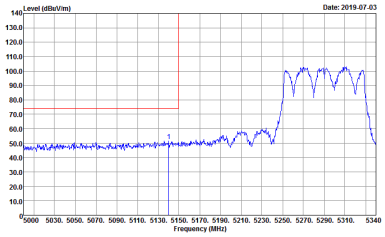
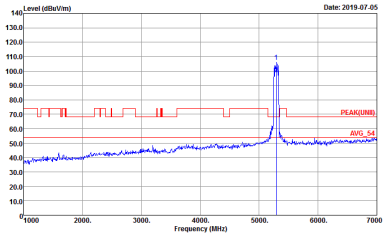
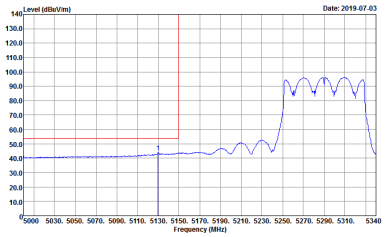
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310MHz - R	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 23 Power : 18	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 23 Power : 18	Left blank

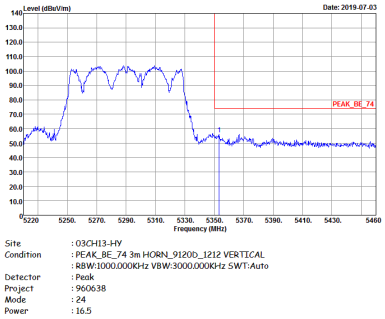
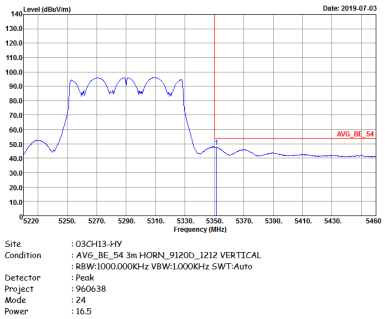
Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
2+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 24 Power : 16.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 24 Power : 16.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 24 Power : 16.5	Left blank

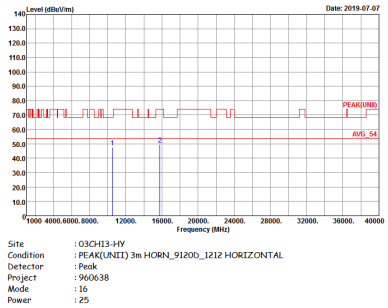
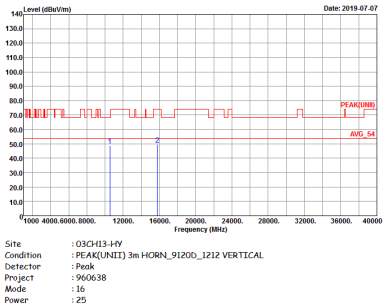
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
2+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 24 Power : 16.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 24 Power : 16.5	Left blank

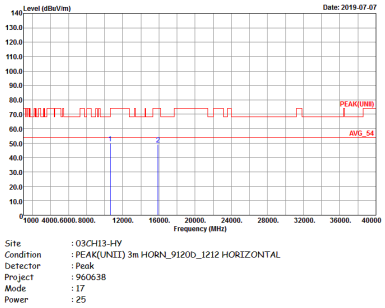
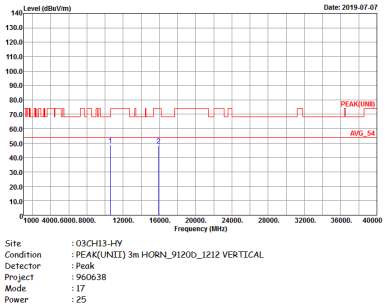
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 24 Power : 16.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 24 Power : 16.5
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 24 Power : 16.5	Left blank

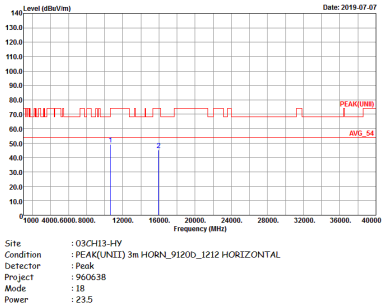
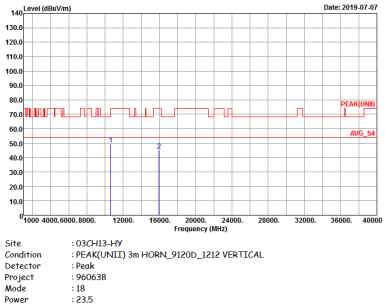
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HV Condition : PEAK_BE_74 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 24 Power : 16.5	Left blank
Avg.	 Site : 03CH13-HV Condition : AVG_BE_54 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 24 Power : 16.5	Left blank

Band 2 - 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

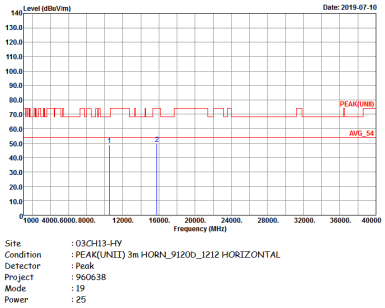
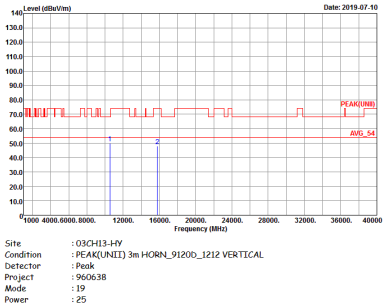
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH52 5260MHz	
2+3	Horizontal	Vertical
Peak Avg.		

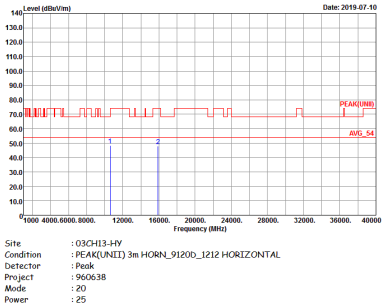
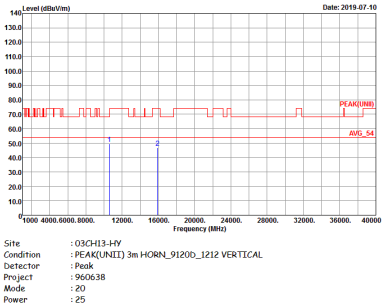
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
2+3	Horizontal	Vertical
Peak Avg.		

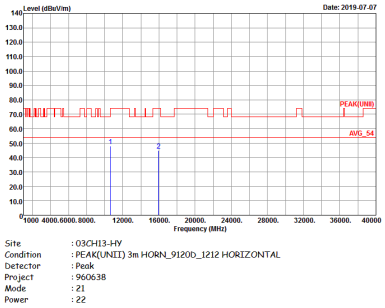
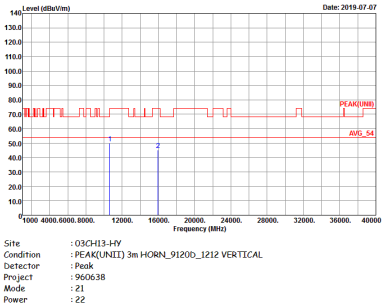
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
2+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 HORIZONTAL Detector : Peak Project : 960638 Mode : 18 Power : 23.5	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL Detector : Peak Project : 960638 Mode : 18 Power : 23.5

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

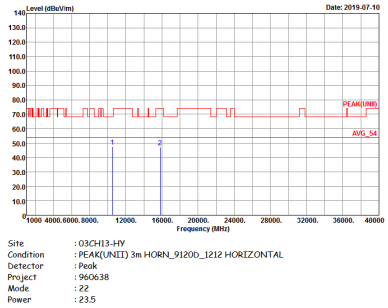
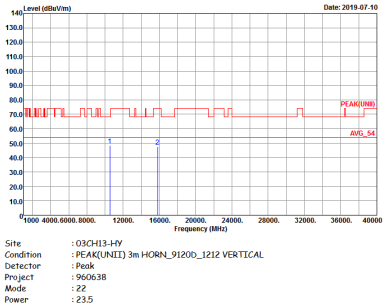
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH52 5260MHz	
2+3	Horizontal	Vertical
Peak Avg.		

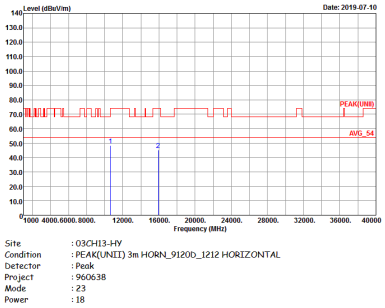
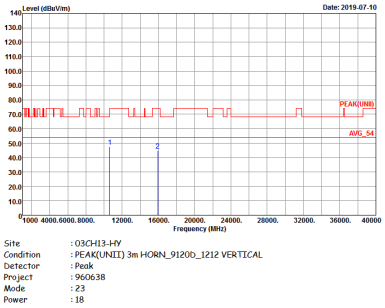
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH60 5300MHz	
2+3	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
2+3	Horizontal	Vertical
Peak Avg.		

Band 2 5250~5350MHz

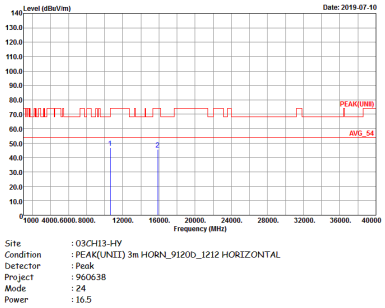
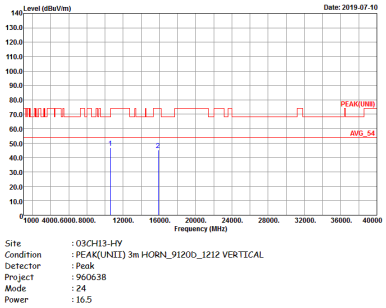
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH54 5270MHz	
2+3	Horizontal	Vertical
Peak Avg.		

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11n HT40 CH62 5310MHz	
2+3	Horizontal	Vertical
Peak Avg.		

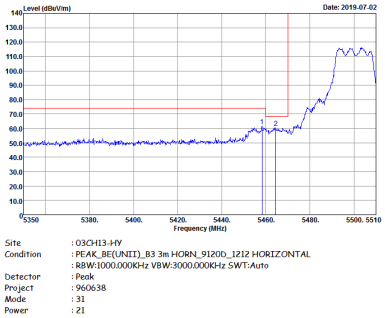
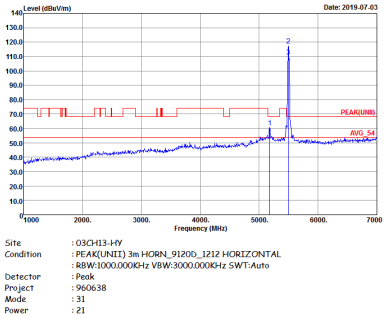
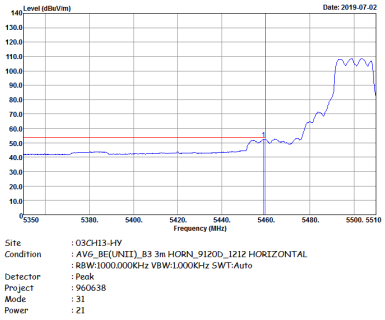
Band 2 5250~5350MHz

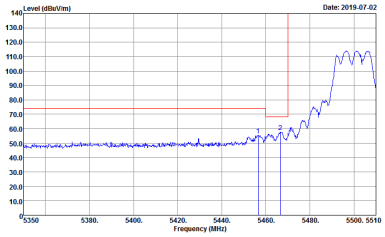
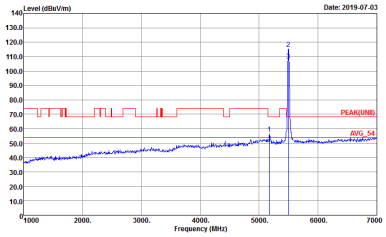
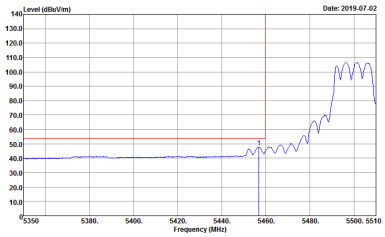
WIFI 802.11ac VHT80 (Harmonic @ 3m)

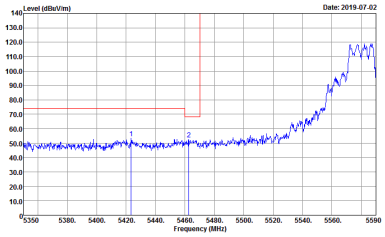
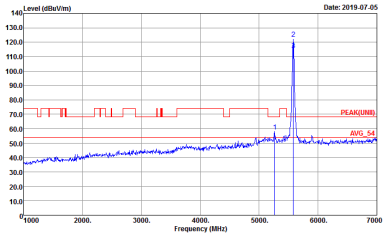
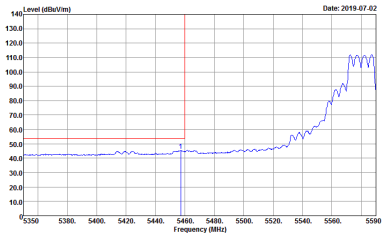
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
2+3	Horizontal	Vertical
Peak Avg.		

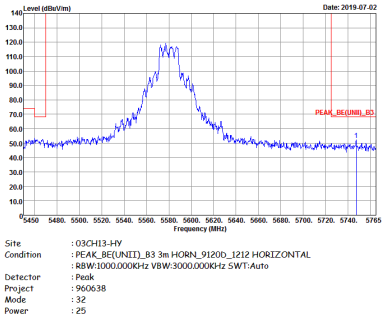
Band 3 - 5470~5725MHz

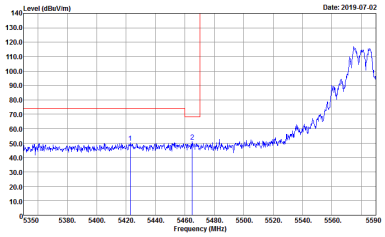
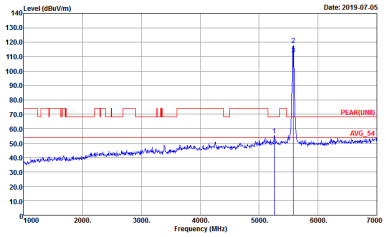
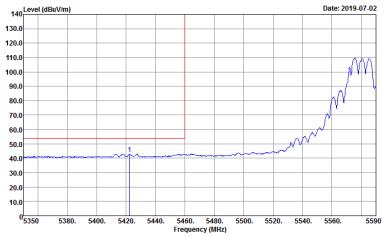
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
2+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH100 5500MHz	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 31 Power : 21	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 31 Power : 21
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 31 Power : 21	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
2+3	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 32 Power : 25	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 32 Power : 25
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1212 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 32 Power : 25	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - R	
2+3	Horizontal	Fundamental
Peak		Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11a CH116 5580MHz - L	
2+3	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE(UNII)_B3 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 32 Power : 25	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 32 Power : 25
Avg.	 Site : 03CH13-HY Condition : AVG_BE(UNII)_B3 3m HORN_9120D_1212 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 960638 Mode : 32 Power : 25	Left blank