FCC RADIO TEST REPORT

FCC ID	:	**A4RGB62Z**
Equipment	:	**Phone**
Model Name	:	**GB62Z**
Applicant	:	**Google LLC** **1600 Amphitheatre Parkway,** **Mountain View, California, 94043 USA**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Nov. 11, 2021 and testing was performed from Nov. 12, 2021 to Feb. 21, 2022. We, Sporton International Inc. Wensan 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 test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory
No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

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History of this test report

Report No.	Version	Description	Issue Date
FR161608-03E	01	Initial issue of report	Feb. 11, 2022
FR161608-03E	02	1. Revise Carrier Frequency and Channel and Connection Diagram of Test System 2. Revise description in section 3.3.5 and 3.4.6 3. Revise description for Antenna Requirements 4. Revise test procedures in section 3.3.3 5. Revise appendix A and C	Feb. 17, 2022
FR161608-03E	03	1. Revise section 3.3.5 and Appendix A 2. Revise List of Measuring Equipment	Feb. 22, 2022

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	1.51 dB under the limit at 5467.440 MHz
3.5	15.207	AC Conducted Emission	Pass	10.78 dB under the limit at 0.184 MHz
3.6	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 product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: William Chen

Report Producer: Amy Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Phone
Model Name	GB62Z
FCC ID	A4RGB62Z
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/NFC/GNSS WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE

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

EUT Information List	
S/N	Performed Test Item
1A261FQGR00043	RF Conducted Measurement
1B011FQGR00008	Radiated Spurious Emission
1B011FQGR00006	Conducted Emission

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz
Maximum Output Power	**<5180 MHz ~ 5240 MHz>** **MIMO <Ant. 4+3>** 802.11a: 22.76 dBm / 0.1888 W 802.11n HT20: 22.71 dBm / 0.1866 W 802.11n HT40: 21.81 dBm / 0.1517 W 802.11ac VHT20: 22.61 dBm / 0.1824 W 802.11ac VHT40: 21.71 dBm / 0.1483 W 802.11ac VHT80: 18.91 dBm / 0.0778 W 802.11ac VHT160: 16.57 dBm / 0.0454 W 802.11ax HE20: 22.51 dBm / 0.1782 W 802.11ax HE40: 21.61 dBm / 0.1449 W 802.11ax HE80: 18.81 dBm / 0.0760 W 802.11ax HE160: 16.67 dBm / 0.0465 W **<5260 MHz ~ 5320 MHz>** **MIMO <Ant. 4+3>** 802.11a: 22.66 dBm / 0.1845 W 802.11n HT20: 22.56 dBm / 0.1803 W 802.11n HT40: 21.66 dBm / 0.1466 W 802.11ac VHT20: 22.31 dBm / 0.1702 W 802.11ac VHT40: 21.56 dBm / 0.1432 W 802.11ac VHT80: 18.67 dBm / 0.0736 W 802.11ax HE20: 22.31 dBm / 0.1702 W 802.11ax HE40: 21.46 dBm / 0.1400 W 802.11ax HE80: 18.57 dBm / 0.0719 W **<5500 MHz ~ 5720 MHz>** **MIMO <Ant. 4+3>** 802.11a: 22.56 dBm / 0.1803 W 802.11n HT20: 21.96 dBm / 0.1570 W 802.11n HT40: 21.61 dBm / 0.1449 W 802.11ac VHT20: 22.86 dBm / 0.1932 W 802.11ac VHT40: 21.51 dBm / 0.1416 W 802.11ac VHT80: 21.51 dBm / 0.1416 W 802.11ac VHT160: 17.86 dBm / 0.0611 W 802.11ax HE20: 22.76 dBm / 0.1888 W 802.11ax HE40: 21.41 dBm / 0.1384 W 802.11ax HE80: 21.41 dBm / 0.1384 W 802.11ax HE160: 17.96 dBm / 0.0625 W

Product Specification is subject to this standard	
99% Occupied Bandwidth	**MIMO <Ant. 4>** 802.11a: 20.03 MHz 802.11n HT20: 21.38 MHz 802.11n HT40: 37.86 MHz 802.11ac VHT80: 76.12 MHz 802.11ax HE160: 156.56 MHz **MIMO <Ant. 3>** 802.11a: 20.68 MHz 802.11n HT20: 21.53 MHz 802.11n HT40: 37.96 MHz 802.11ac VHT80: 76.00 MHz 802.11ax HE160: 156.80 MHz
Antenna Type	**<5180 MHz ~ 5240 MHz>** **<Ant. 4>:** IFA Antenna **<Ant. 3>:** IFA Antenna **<5260 MHz ~ 5320 MHz>** **<Ant. 4>:** IFA Antenna **<Ant. 3>:** IFA Antenna **<5500 MHz ~ 5720 MHz>** **<Ant. 4>:** IFA Antenna **<Ant. 3>:** IFA Antenna
Antenna Gain	**<5180 MHz ~ 5240 MHz>** **<Ant. 4>:** -3.10 dBi **<Ant. 3>:** -4.30 dBi **<5260 MHz ~ 5320 MHz>** **<Ant. 4>:** -2.30 dBi **<Ant. 3>:** -4.10 dBi **<5500 MHz ~ 5720 MHz>** **<Ant. 4>:** -1.80 dBi **<Ant. 3>:** -2.20 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax : OFDMA (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)
Antenna Function Description	<table><tr><td></td><td>Ant. 4</td><td>Ant. 3</td></tr><tr><td>802.11 a/n/ac/ax MIMO</td><td>V</td><td>V</td></tr></table>

Remark:

1. MIMO Ant. 4+3 Directional Gain is a calculated result from MIMO Ant. 4 and MIMO Ant. 3. The formula used in calculation is documented in section 3.6.
2. Power of MIMO Ant. 4 + Ant. 3 is a calculated result from sum of the power MIMO Ant. 4 and MIMO Ant. 3.
3. The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.3 Modification of EUT

No modifications made to the EUT during the testing.

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 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	CO05-HY (TAF Code: 1190)
Remark	The Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY, 03CH16-HY

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

FCC designation No.: TW1190 and TW3786

1.5 Applicable Standards

According to the specifications declared by 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 the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

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). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find Y plane with Adapter as worst plane.

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)
5150-5350 MHz	50@	5250
5470-5725 MHz	114@	5570

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 with "*" are 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel with "#" are 802.11ac VHT80 and 802.11ax HE80.
3. The above Frequency and Channel with "@" are 802.11ac VHT160 and 802.11ax HE160.

2.2 Test Mode

This device support 26/52/106/242/484/996-tone RU but does not support 2x996-tone RU on 160MHz channel.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance.

Final test modes are considering the modulation and worse data rates as below table.

MIMO 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
802.11 ac VHT160 (Covered by HE160)	MCS0
802.11ax HE20 (Covered by HT20)	MCS0
802.11ax HE40 (Covered by HT40)	MCS0
802.11ax HE80 (Covered by VHT80)	MCS0
802.11ax HE160	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : GSM850 Idle + WLAN (5GHz) Link + Bluetooth Link + USB Cable 2 (Charging from AC Adapter 1)
Remark: For Radiated Test Cases, the tests were performed with Adapter 1 and USB Cable 2.	

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	44	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	44	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

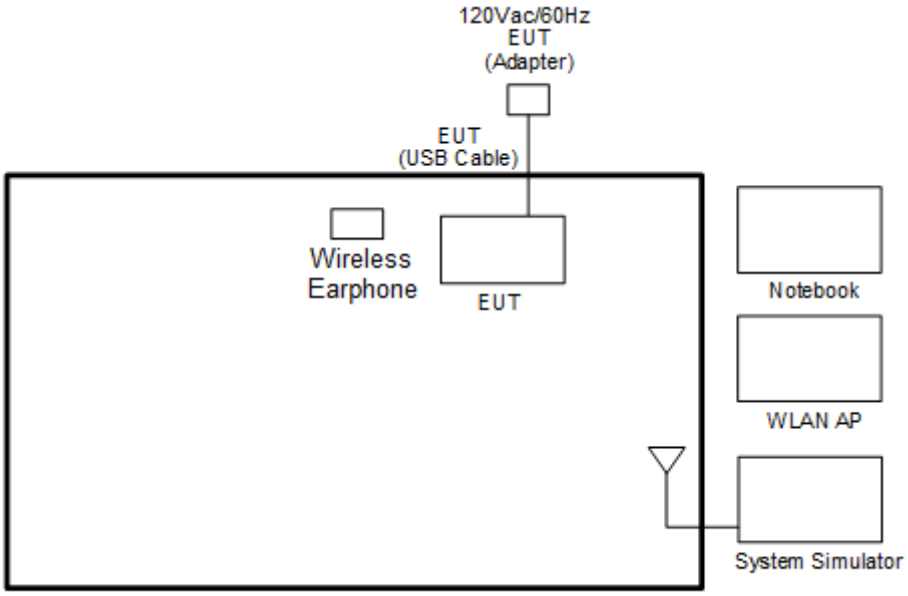
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

BW160	5150-5350 MHz	5470-5725MHz
	802.11ax HE160	802.11ax HE160
Ch. #	50	114

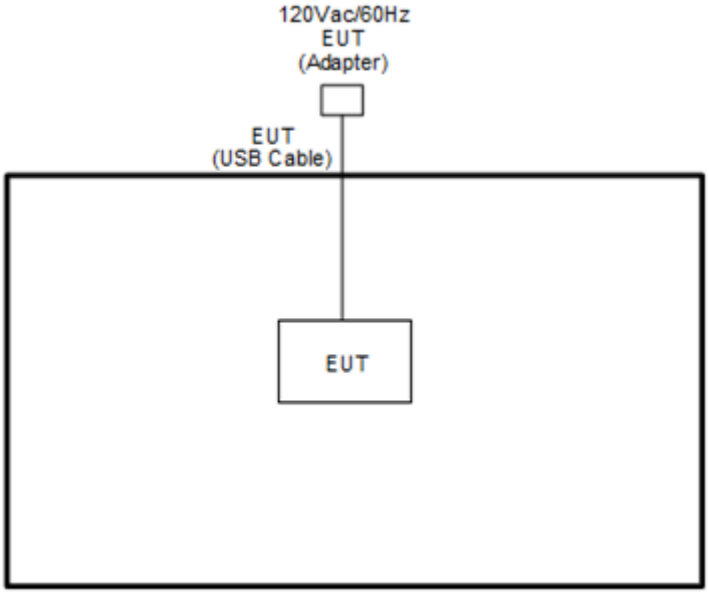
Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Wireless Earphone	Google	G1007/G1008	N/A	N/A	N/A
3.	WLAN AP	NETGEAR64	RAXE500	N/A	N/A	Unshielded,1.8m
4.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m

2.5 EUT Operation Test Setup

The RF test items, utility “Command v10.0.17134.1304” 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.

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 10 dB 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.

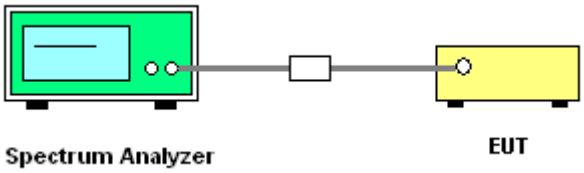
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in 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.

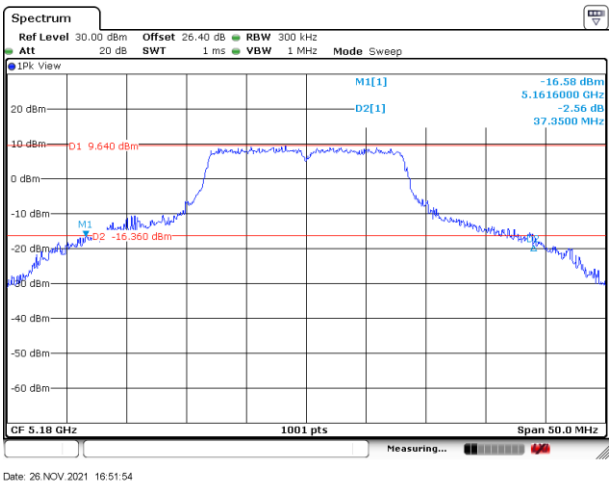
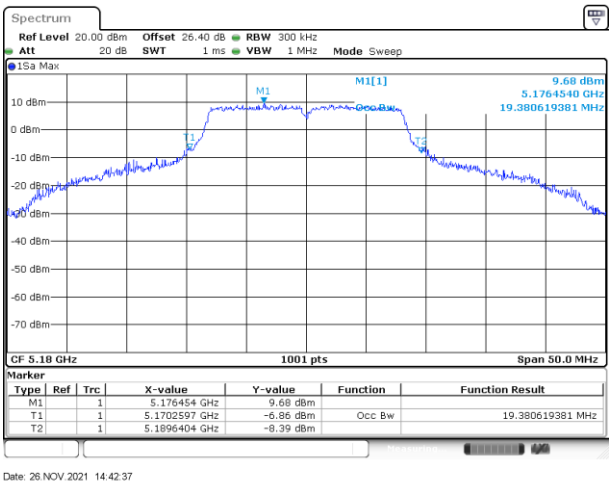
3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

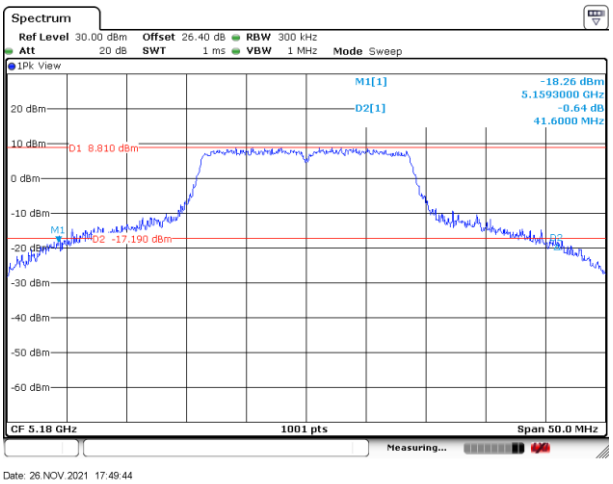
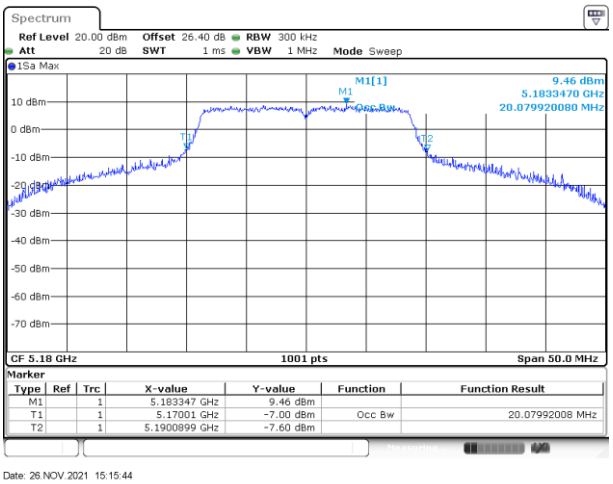
Please refer to Appendix A.

<802.11a>

26dB Bandwidth	99% Occupied Bandwidth
	

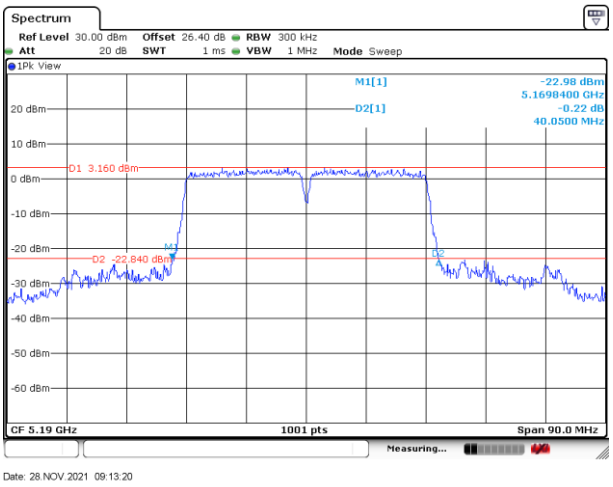
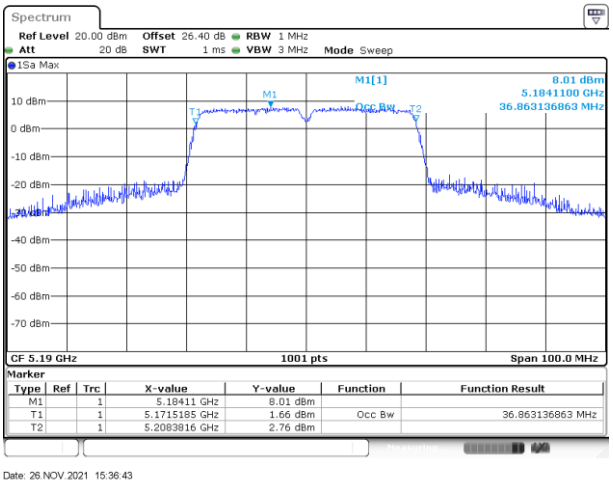
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11n HT20>

26dB Bandwidth	99% Occupied Bandwidth
	

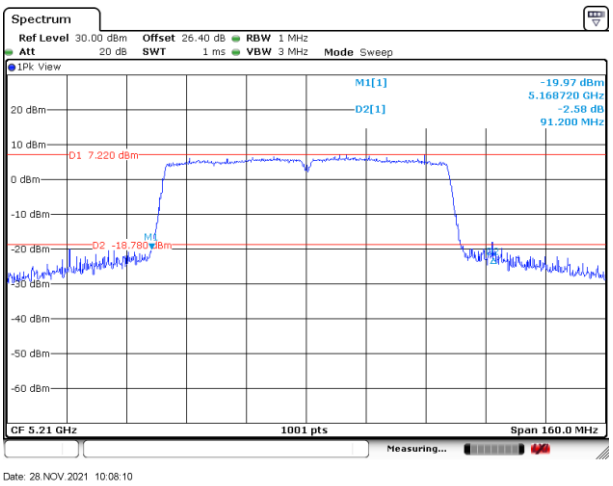
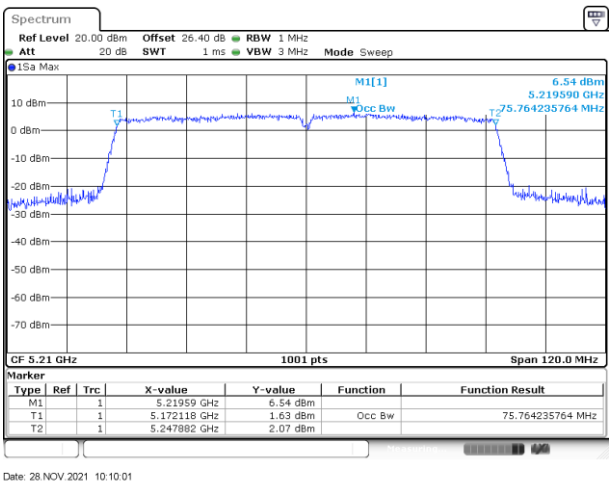
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11n HT40>

26dB Bandwidth	99% Occupied Bandwidth
	

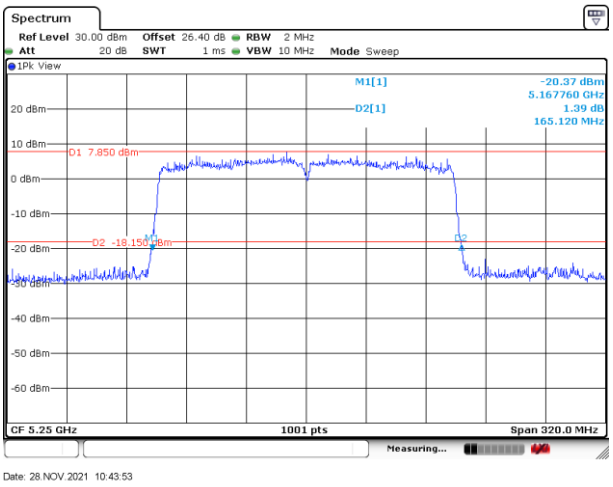
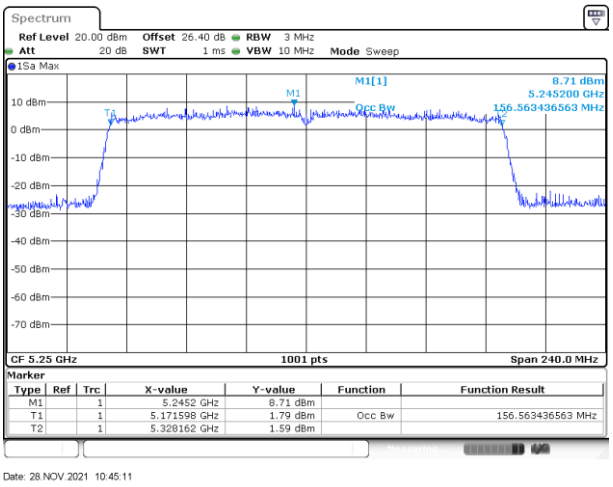
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ac VHT80>

26dB Bandwidth	99% Occupied Bandwidth
	

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

<802.11ax HE160>

26dB Bandwidth	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

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

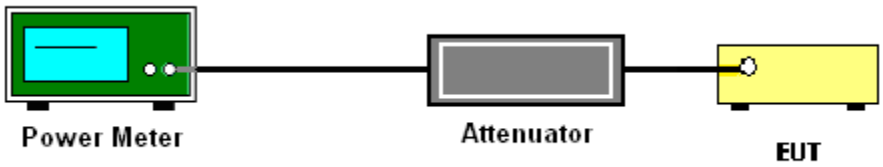
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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

Please refer to the measuring equipment list in 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-2 #

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

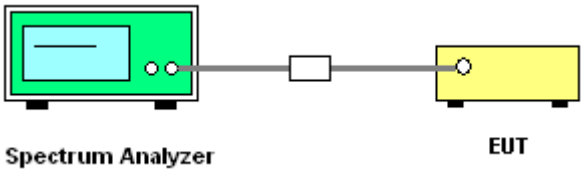
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

1. The RF output of EUT is 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

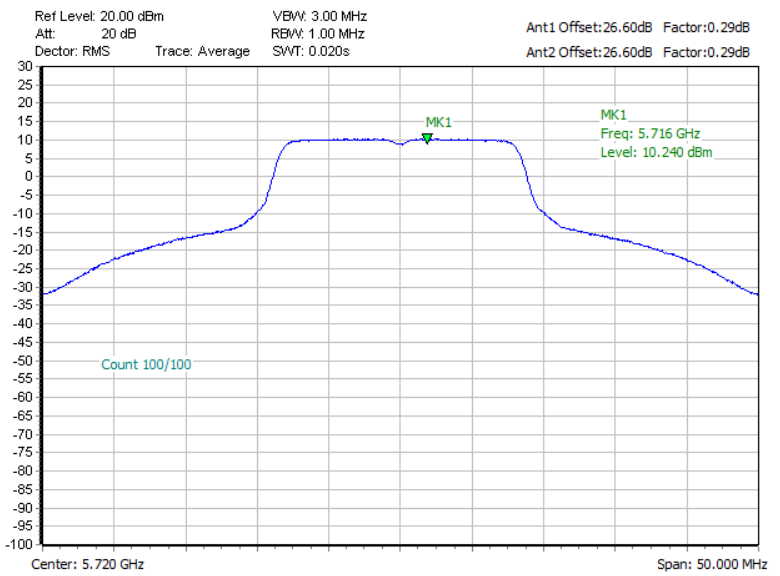


3.3.5 Test Result of Power Spectral Density

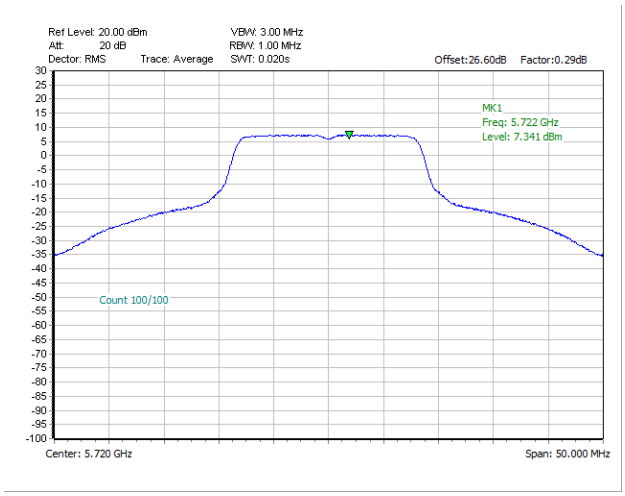
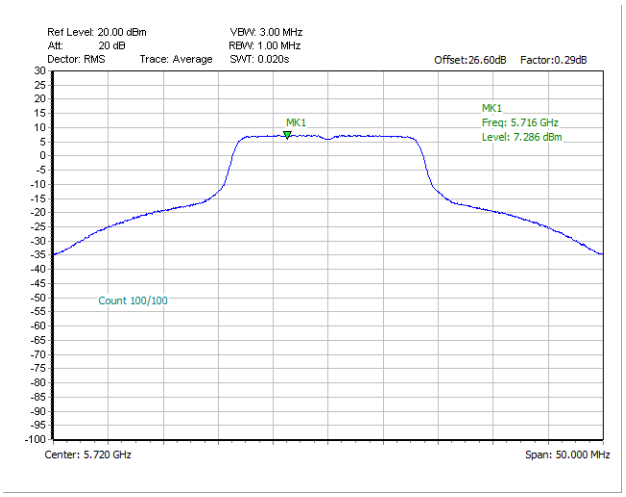
Please refer to Appendix A.

<802.11a Mode>

Worst Case Power Density (dBm/MHz)
MIMO <Ant. 4+3>

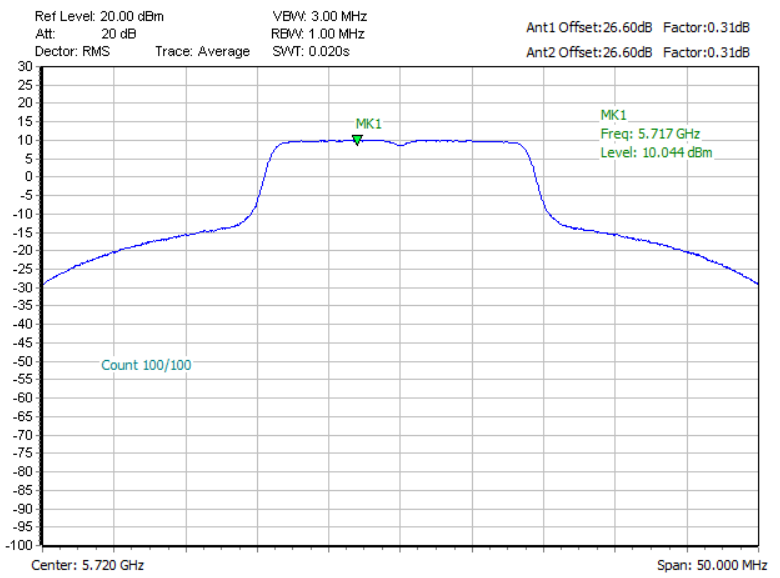


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

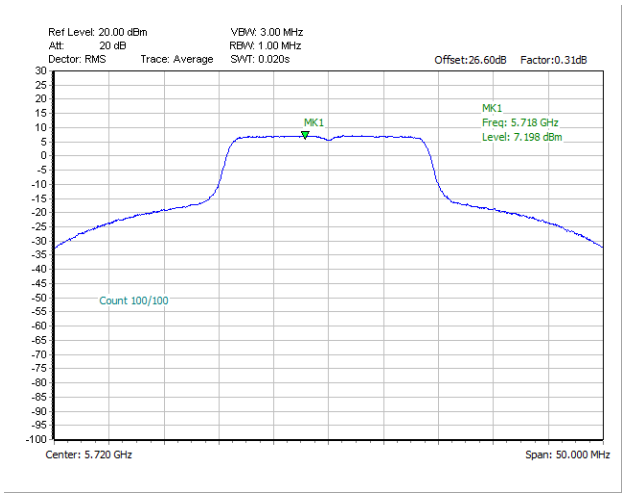
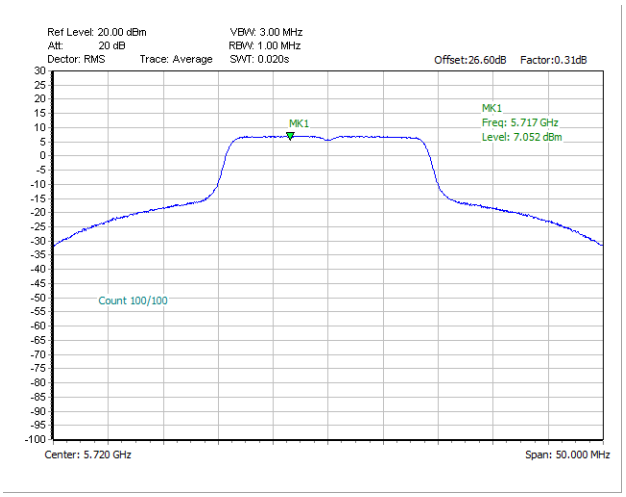
Worst Case Power Density Trace 1 (Ant 4)	Worst Case Power Density Trace 2 (Ant 3)
	

<802.11n HT20 Mode>

Worst Case Power Density (dBm/MHz)
MIMO <Ant. 4+3>

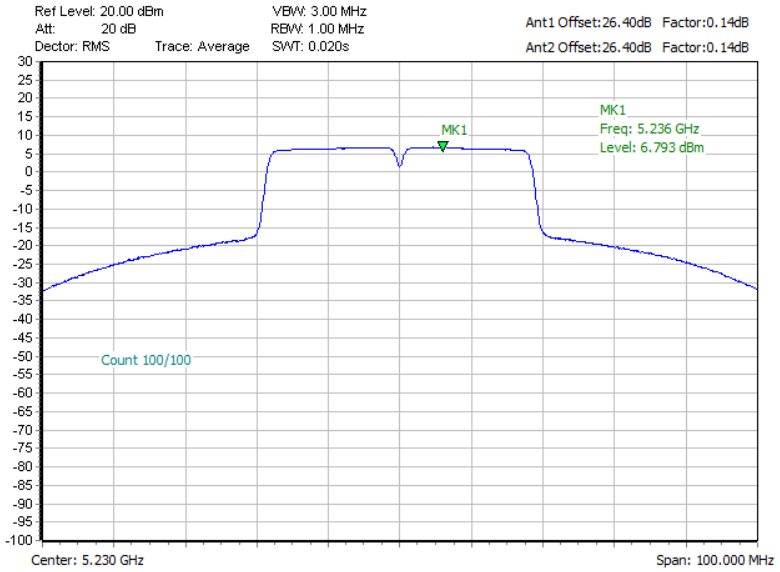


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

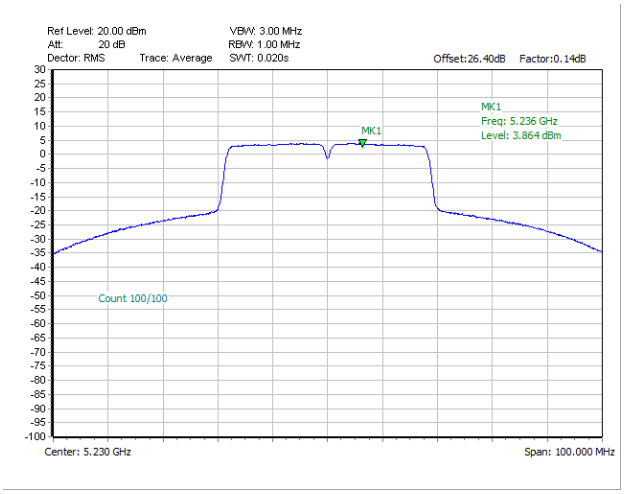
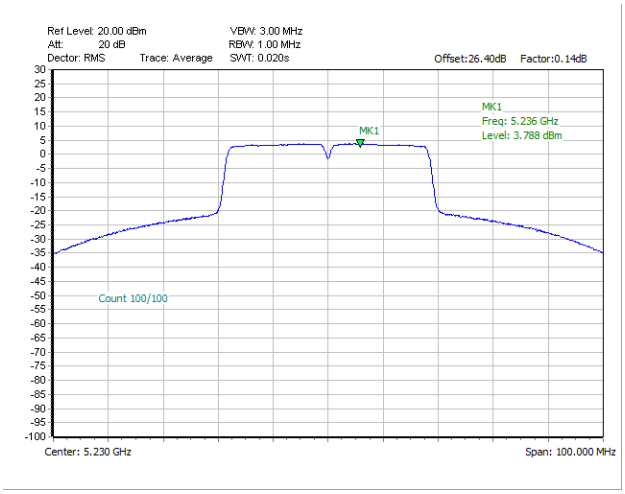
Worst Case Power Density Trace 1 (Ant 4)	Worst Case Power Density Trace 2 (Ant 3)
	

<802.11n HT40 Mode>

Worst Case Power Density (dBm/MHz)
MIMO <Ant. 4+3>

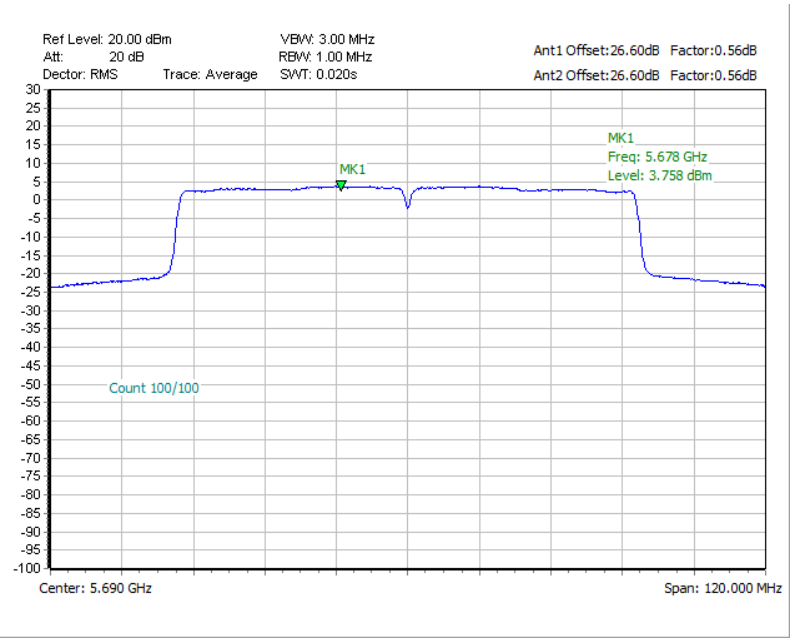


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

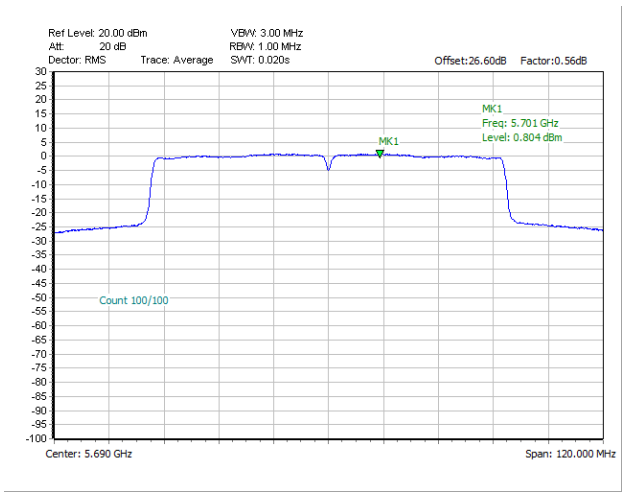
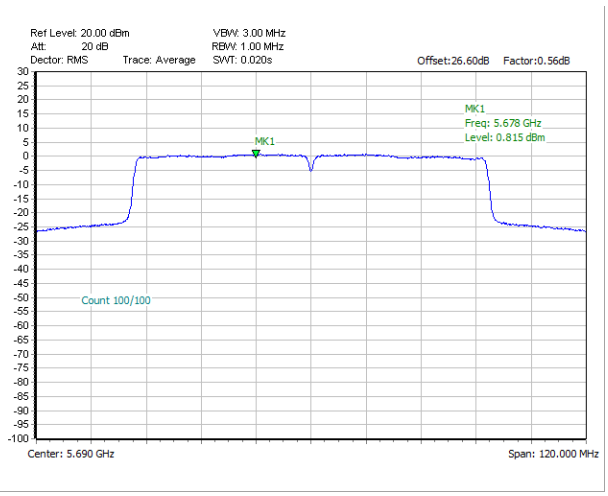
Worst Case Power Density Trace 1 (Ant 4)	Worst Case Power Density Trace 2 (Ant 3)
	

<802.11ac VHT80 Mode>

Worst Case Power Density (dBm/MHz)
MIMO <Ant. 4+3>

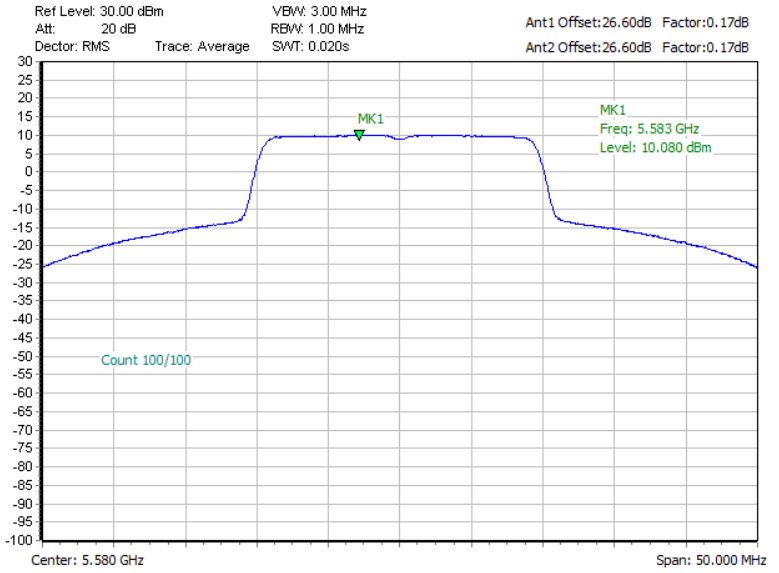


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

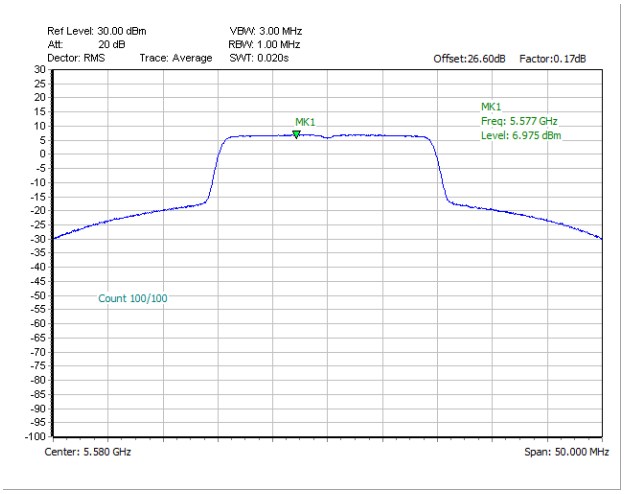
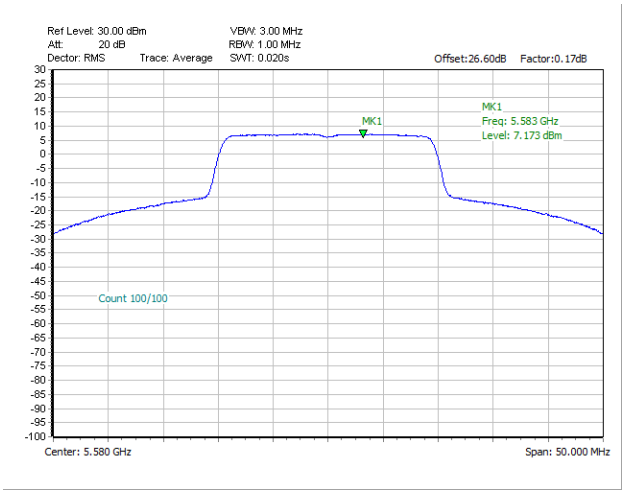
Worst Case Power Density Trace 1 (Ant 4)	Worst Case Power Density Trace 2 (Ant 3)
	

<802.11ax HE20 Modes>

Worst Case Power Density (dBm/MHz)
MIMO <Ant. 4+3>

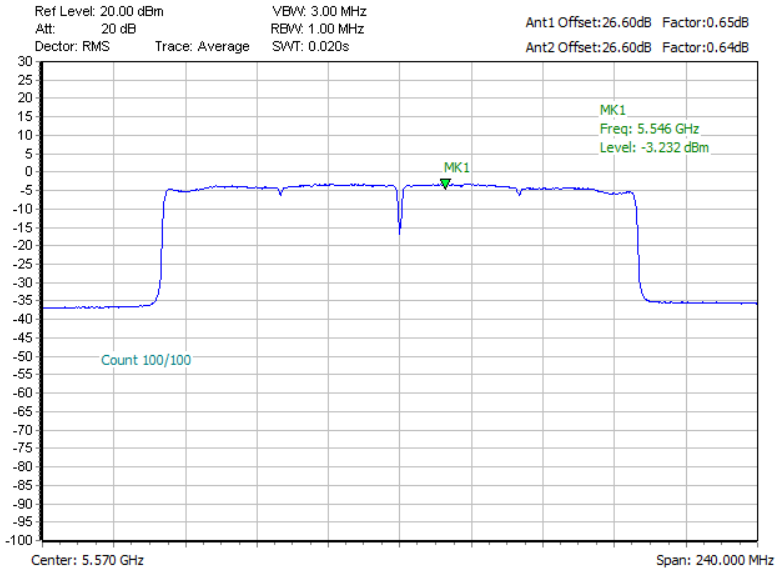


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

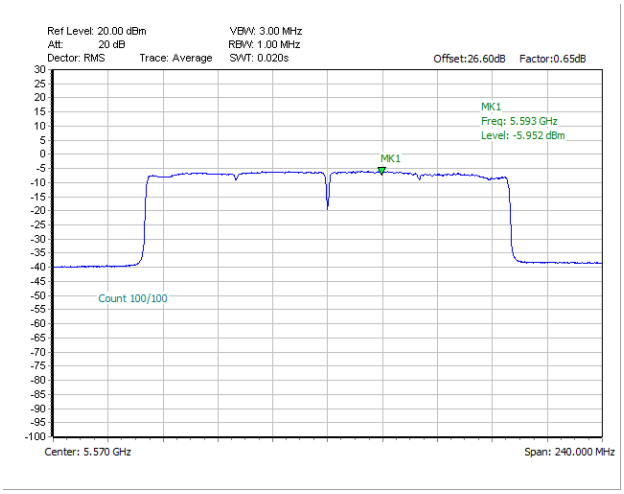
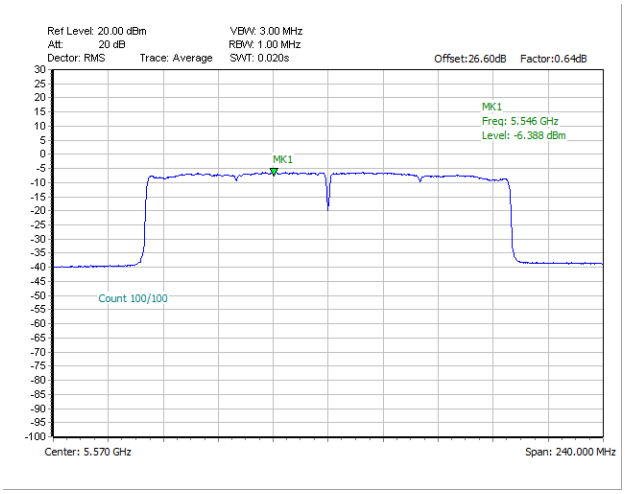
Worst Case Power Density Trace 1 (Ant 4)	Worst Case Power Density Trace 2 (Ant 3)
	

<802.11ax HE160 Modes>

Worst Case Power Density (dBm/MHz)
MIMO <Ant. 4+3>



Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Worst Case Power Density Trace 1 (Ant 4)	Worst Case Power Density Trace 2 (Ant 3)
	

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 falls 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

Please refer to the measuring equipment list in 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 1000 MHz

- 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

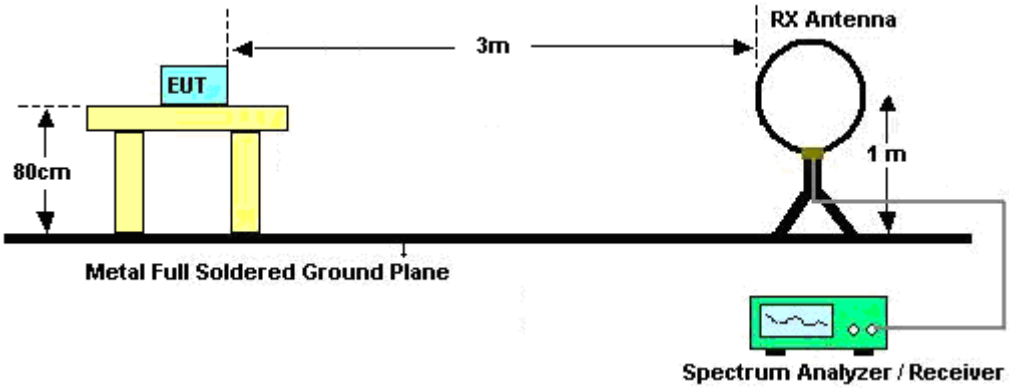
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- 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.

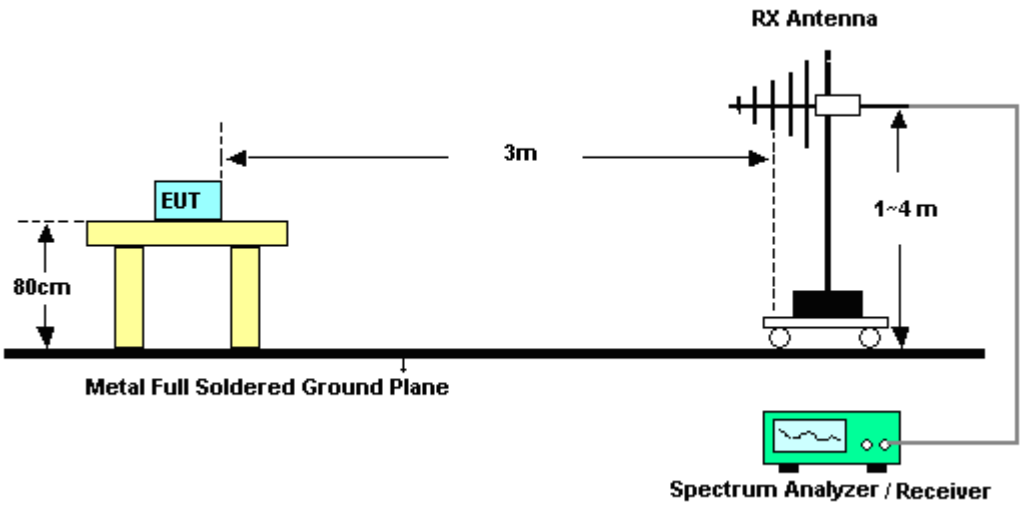
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna 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 is 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. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-".
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".

3.4.4 Test Setup

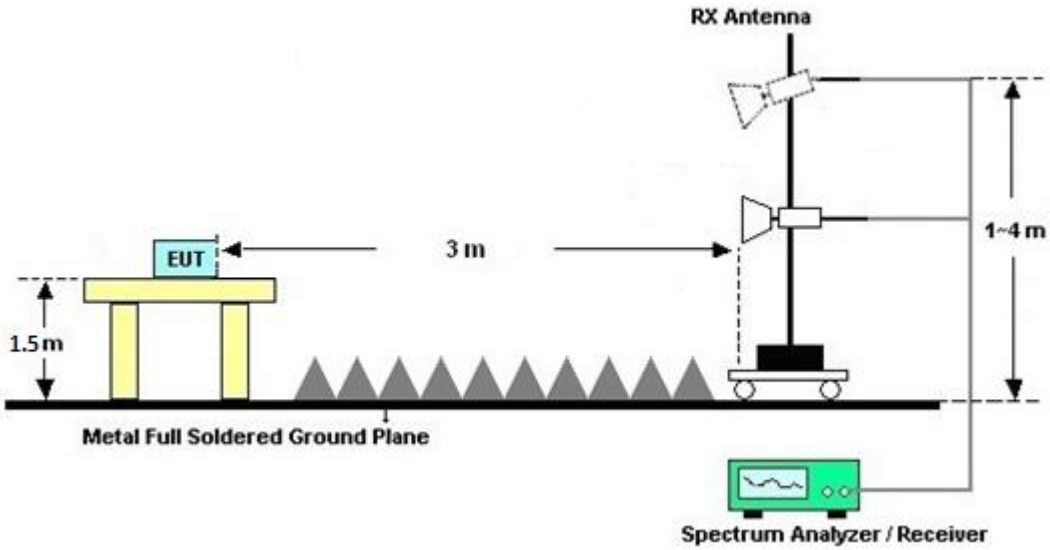
For radiated emissions below 30MHz



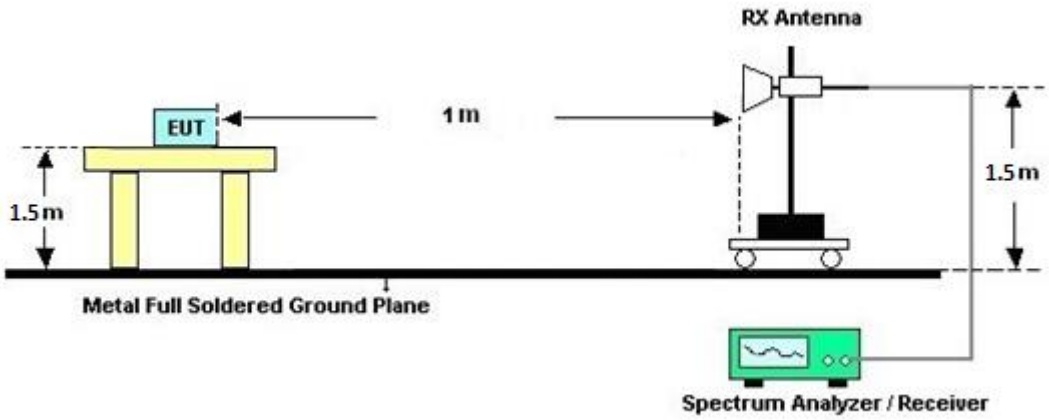
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement 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 Results of Radiated Spurious Emissions (above 18 GHz)

For frequency above 18GHz, the pre-scanned result is 20dB lower than the limit line is not reported.

3.4.7 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.8 Duty Cycle

Please refer to Appendix E.

3.4.9 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.

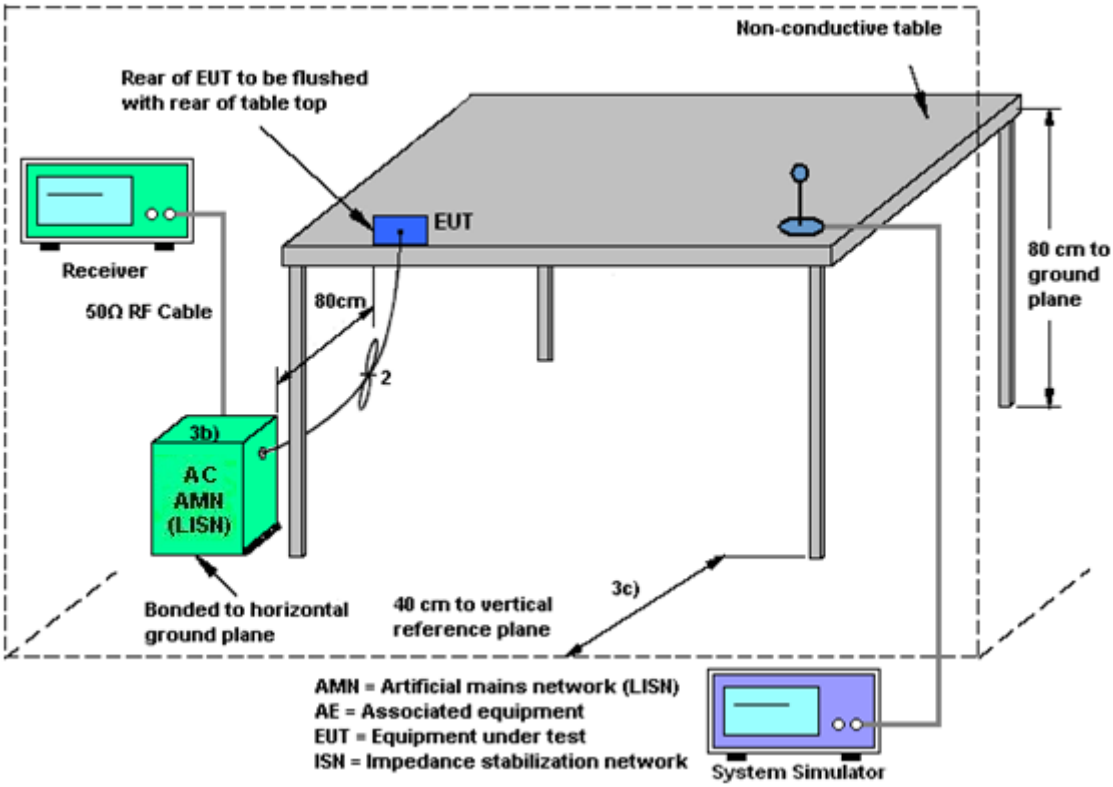
3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is 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 shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Antenna Requirements

3.6.1 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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For power measurements on IEEE 802.11 devices,

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

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

G_{ANT} is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation follows F)2)f)ii) of KDB 662911 D01 v02r01.

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

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.

As minimum N_{SS}=1 is supported by EUT, the formula can be simplified as:

Directional gain = $10*\log[(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2 / N_{ANT}]$ dBi

Where G1, G2….GN denote single antenna gain.

For example: If a device has two antenna, G_{ANT1}= 3.6dBi; G_{ANT2}=4.2dBi

Directional gain of power measurement = max(3.6, 4.2) + 0 = 4.2 dBi

Directional gain of PSD measurement = $10 * \log[(10^{3.6/20} + 10^{4.2/20})^2 / 2]$ = 6.92 dBi

The directional gain of EUT is listed in the following table.

<CDD Modes>						
	Ant. 4 (dBi)	Ant. 3 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	-3.10	-4.30	-3.10	-0.67	0.00	0.00
Band II	-2.30	-4.10	-2.30	-0.14	0.00	0.00
Band III	-1.80	-2.20	-1.80	1.01	0.00	0.00

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

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

Calculation example:
The DG for PSD is derived from formula is
10 x log { { [10^ (-3.10 dBi / 20) + 10^ (-4.30 dBi / 20)] ^ 2 } / 2 }
= -0.67 dBi

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 07, 2021	Nov. 12, 2021~ Dec. 15, 2021	Sep. 06, 2022	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01 N-06	47020 & 06	30MHz to 1GHz	Oct. 09, 2021	Nov. 12, 2021~ Dec. 15, 2021	Oct. 08, 2022	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-1522	1G~18GHz	Oct. 12, 2021	Nov. 12, 2021~ Dec. 15, 2021	Oct. 11, 2022	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00991	18GHz ~40GHz	May 12, 2021	Nov. 12, 2021~ Dec. 15, 2021	May 11, 2022	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Jul. 05, 2021	Nov. 12, 2021~ Dec. 15, 2021	Jul. 04, 2022	Radiation (03CH16-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	1710001800054 001	1-18GHz	Jun. 16, 2021	Nov. 12, 2021~ Dec. 15, 2021	Jun. 15, 2022	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 10, 2020	Nov. 12, 2021~ Dec. 08, 2021	Dec. 09, 2021	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 09, 2021	Dec. 09, 2021~ Dec. 15, 2021	Dec. 08, 2022	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Nov. 12, 2021~ Dec. 15, 2021	Jun. 21, 2022	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Dec. 11, 2020	Nov. 12, 2021~ Dec. 09, 2021	Dec. 10, 2021	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY59053012	3Hz~26.5GHz	Nov. 18, 2021	Nov. 19, 2021~ Dec. 15, 2021	Nov. 17, 2022	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9010A	MY54200485	3Hz ~40GHz	Mar. 05, 2021	Nov. 12, 2021~ Dec. 15, 2021	Mar. 04, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/4PE	NA	Aug. 28, 2021	Nov. 12, 2021~ Dec. 15, 2021	Aug. 27, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/4PE	NA	Aug. 28, 2021	Nov. 12, 2021~ Dec. 15, 2021	Aug. 27, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5757	NA	Aug. 28, 2021	Nov. 12, 2021~ Dec. 15, 2021	Aug. 27, 2022	Radiation (03CH16-HY)
Hygrometer	TECPEL	DTM-303B	TP200881	QA-3-031	Sep. 30, 2021	Nov. 12, 2021~ Dec. 15, 2021	Sep. 29, 2022	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Nov. 12, 2021~ Dec. 15, 2021	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Nov. 12, 2021~ Dec. 15, 2021	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Nov. 12, 2021~ Dec. 15, 2021	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Nov. 12, 2021~ Dec. 15, 2021	N/A	Radiation (03CH16-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 16, 2021	Nov. 20, 2021~ Feb. 21, 2022	Nov. 15, 2022	Conducted (TH05-HY)
USB Power Meter	Raditeq	RPR3006W #010	RPR6W-2101 003 (NO:85)	10MHz~8GHz	Apr. 15, 2021	Nov. 20, 2021~ Feb. 21, 2022	Apr. 01, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 30, 2021	Nov. 20, 2021~ Feb. 21, 2022	Aug. 29, 2022	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW191204 (BOX9)	N/A	Mar. 17, 2021	Nov. 20, 2021~ Feb. 21, 2022	Mar. 16, 2022	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 15, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Nov. 15, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	TECPEL	DTM-303A	TP201973	N/A	Oct. 22, 2021	Nov. 15, 2021	Oct. 21, 2022	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 01, 2020	Nov. 15, 2021	Nov. 30, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Nov. 15, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Jul. 28, 2021	Nov. 15, 2021	Jul. 27, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Nov. 15, 2021	Dec. 30, 2021	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.1 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.8 dB

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.8 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Benny Ku	Temperature:	21~25	°C
Test Date:	2021/11/20~2022/2/21	Relative Humidity:	51~54	%

TEST RESULTS DATA
26dB and 99% OBW

Band I MIMO														
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 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	36	5180	19.38	19.78	37.35	38.60	-		22.87			
11a	6Mbps	2	44	5220	19.98	20.28	36.85	38.25	-		23.01			
11a	6Mbps	2	48	5240	19.48	20.68	35.85	38.10	-		22.90			
HT20	MCS0	2	36	5180	20.08	20.83	41.60	40.45	-		23.01			
HT20	MCS0	2	44	5220	20.08	20.83	42.45	42.60	-		23.01			
HT20	MCS0	2	48	5240	20.28	21.53	41.55	41.10	-		23.01			
HT40	MCS0	2	38	5190	36.86	36.66	40.05	39.87	-		23.01			
HT40	MCS0	2	46	5230	37.76	37.66	68.85	72.18	-		23.01			
VHT80	MCS0	2	42	5210	75.76	75.76	91.20	82.24	-		23.01			

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	36	5180	19.30	19.80	22.57	24.00		-3.10			Pass
11a	6Mbps	2	44	5220	19.60	19.90	22.76	24.00		-3.10			Pass
11a	6Mbps	2	48	5240	19.60	19.90	22.76	24.00		-3.10			Pass
HT20	MCS0	2	36	5180	19.40	19.90	22.67	24.00		-3.10			Pass
HT20	MCS0	2	44	5220	19.50	19.90	22.71	24.00		-3.10			Pass
HT20	MCS0	2	48	5240	19.50	19.90	22.71	24.00		-3.10			Pass
HT40	MCS0	2	38	5190	15.70	15.80	18.76	24.00		-3.10			Pass
HT40	MCS0	2	46	5230	18.70	18.90	21.81	24.00		-3.10			Pass
VHT20	MCS0	2	36	5180	19.30	19.80	22.57	24.00		-3.10			Pass
VHT20	MCS0	2	44	5220	19.40	19.80	22.61	24.00		-3.10			Pass
VHT20	MCS0	2	48	5240	19.40	19.80	22.61	24.00		-3.10			Pass
VHT40	MCS0	2	38	5190	15.60	15.70	18.66	24.00		-3.10			Pass
VHT40	MCS0	2	46	5230	18.60	18.80	21.71	24.00		-3.10			Pass
VHT80	MCS0	2	42	5210	16.00	15.80	18.91	24.00		-3.10			Pass
VHT160	MCS0	2	50	5250	13.80	13.30	16.57	24.00		-3.10			Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	36	5180	0.29	0.29			9.80	11.00		-0.67			Pass
11a	6Mbps	2	44	5220	0.29	0.29			9.98	11.00		-0.67			Pass
11a	6Mbps	2	48	5240	0.29	0.29			10.11	11.00		-0.67			Pass
HT20	MCS0	2	36	5180	0.31	0.31			9.31	11.00		-0.67			Pass
HT20	MCS0	2	44	5220	0.31	0.31			9.48	11.00		-0.67			Pass
HT20	MCS0	2	48	5240	0.31	0.31			9.49	11.00		-0.67			Pass
HT40	MCS0	2	38	5190	0.14	0.14			3.50	11.00		-0.67			Pass
HT40	MCS0	2	46	5230	0.14	0.14			6.79	11.00		-0.67			Pass
VHT80	MCS0	2	42	5210	0.56	0.56			0.80	11.00		-0.67			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band II MIMO																
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 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	
11a	6Mbps	2	52	5260	20.03	19.38	35.80	34.40	23.87		29.87		23.98		
11a	6Mbps	2	60	5300	17.33	17.18	24.40	22.20	23.35		29.35		23.98		
11a	6Mbps	2	64	5320	17.23	17.13	24.40	22.25	23.34		29.34		23.98		
HT20	MCS0	2	52	5260	21.38	20.83	42.45	41.05	23.98		30.00		23.98		
HT20	MCS0	2	60	5300	18.43	18.13	30.00	29.30	23.58		29.58		23.98		
HT20	MCS0	2	64	5320	18.33	18.08	27.10	27.80	23.57		29.57		23.98		
HT40	MCS0	2	54	5270	37.56	37.36	72.99	68.13	23.98		30.00		23.98		
HT40	MCS0	2	62	5310	36.86	36.56	40.23	39.69	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	75.76	75.76	91.20	81.92	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO													
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 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	52	5260	19.50	19.80	22.66	23.98		-2.30		26.99	Pass
11a	6Mbps	2	60	5300	17.90	17.70	20.81	23.98		-2.30		26.99	Pass
11a	6Mbps	2	64	5320	17.90	17.70	20.81	23.98		-2.30		26.99	Pass
HT20	MCS0	2	52	5260	19.40	19.70	22.56	23.98		-2.30		26.99	Pass
HT20	MCS0	2	60	5300	18.20	17.60	20.92	23.98		-2.30		26.99	Pass
HT20	MCS0	2	64	5320	17.80	17.20	20.52	23.98		-2.30		26.99	Pass
HT40	MCS0	2	54	5270	18.60	18.70	21.66	23.98		-2.30		26.99	Pass
HT40	MCS0	2	62	5310	15.90	15.40	18.67	23.98		-2.30		26.99	Pass
VHT20	MCS0	2	52	5260	19.30	19.30	22.31	23.98		-2.30		26.99	Pass
VHT20	MCS0	2	60	5300	18.10	17.50	20.82	23.98		-2.30		26.99	Pass
VHT20	MCS0	2	64	5320	17.70	17.10	20.42	23.98		-2.30		26.99	Pass
VHT40	MCS0	2	54	5270	18.50	18.60	21.56	23.98		-2.30		26.99	Pass
VHT40	MCS0	2	62	5310	15.80	15.30	18.57	23.98		-2.30		26.99	Pass
VHT80	MCS0	2	58	5290	15.90	15.40	18.67	23.98		-2.30		26.99	Pass

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TEST RESULTS DATA
Power Spectral Density

Band II MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	52	5260			9.60	11.00		-0.14			Pass
11a	6Mbps	2	60	5300			7.42	11.00		-0.14			Pass
11a	6Mbps	2	64	5320			7.45	11.00		-0.14			Pass
HT20	MCS0	2	52	5260			9.67	11.00		-0.14			Pass
HT20	MCS0	2	60	5300			7.44	11.00		-0.14			Pass
HT20	MCS0	2	64	5320			7.17	11.00		-0.14			Pass
HT40	MCS0	2	54	5270			6.59	11.00		-0.14			Pass
HT40	MCS0	2	62	5310			3.31	11.00		-0.14			Pass
VHT80	MCS0	2	58	5290			0.36	11.00		-0.14			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III MIMO																
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 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
11a	6Mbps	2	100	5500	17.53	17.83	27.75	32.00	23.44		29.44		23.98		----	----
11a	6Mbps	2	116	5580	18.18	18.08	34.25	31.00	23.57		29.57		23.98		----	----
11a	6Mbps	2	140	5700	17.18	17.08	22.00	21.95	23.33		29.33		23.98		----	----
HT20	MCS0	2	100	5500	18.48	18.58	31.05	33.50	23.67		29.67		23.98		----	----
HT20	MCS0	2	116	5580	19.48	20.53	38.45	39.70	23.90		29.90		23.98		----	----
HT20	MCS0	2	140	5700	18.23	17.98	22.05	22.10	23.55		29.55		23.98		----	----
HT40	MCS0	2	102	5510	36.86	36.66	39.69	39.60	23.98		30.00		23.98		----	----
HT40	MCS0	2	110	5550	37.46	37.36	68.13	67.59	23.98		30.00		23.98		----	----
HT40	MCS0	2	134	5670	37.86	37.96	68.22	72.54	23.98		30.00		23.98		----	----
VHT80	MCS0	2	106	5530	75.88	75.76	82.56	82.08	23.98		30.00		23.98		----	----
VHT80	MCS0	2	122	5610	76.12	76.00	141.12	132.32	23.98		30.00		23.98		----	----

Band III straddle channel MIMO																
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 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
11a	6Mbps	2	144	5720	14.44	14.59	22.00	22.00	22.60		28.60		23.98		3.45	3.45
HT20	MCS0	2	144	5720	14.94	15.09	25.00	25.00	22.74		28.74		23.98		3.65	3.7
HT40	MCS0	2	142	5710	33.88	33.88	47.00	52.00	23.98		30.00		23.98		3.54	3.54
VHT80	MCS0	2	138	5690	73.00	73.12	108.00	111.00	23.98		30.00		23.98		3.16	3.64

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO													
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 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	100	5500	18.90	18.90	21.91	23.98		-1.80		26.99	Pass
11a	6Mbps	2	116	5600	19.50	19.30	22.41	23.98		-1.80		26.99	Pass
11a	6Mbps	2	140	5700	17.40	17.50	20.46	23.98		-1.80		26.99	Pass
HT20	MCS0	2	100	5500	18.90	18.80	21.86	23.98		-1.80		26.99	Pass
HT20	MCS0	2	116	5600	20.00	19.90	22.96	23.98		-1.80		26.99	Pass
HT20	MCS0	2	140	5700	15.60	15.50	18.56	23.98		-1.80		26.99	Pass
HT40	MCS0	2	102	5510	15.70	15.20	18.47	23.98		-1.80		26.99	Pass
HT40	MCS0	2	134	5670	18.60	18.60	21.61	23.98		-1.80		26.99	Pass
HT40	MCS0	2	110	5550	18.30	18.20	21.26	23.98		-1.80		26.99	Pass
VHT20	MCS0	2	100	5500	18.80	18.70	21.76	23.98		-1.80		26.99	Pass
VHT20	MCS0	2	116	5580	19.90	19.80	22.86	23.98		-1.80		26.99	Pass
VHT20	MCS0	2	140	5700	15.50	15.40	18.46	23.98		-1.80		26.99	Pass
VHT40	MCS0	2	102	5510	15.60	15.10	18.37	23.98		-1.80		26.99	Pass
VHT40	MCS0	2	110	5550	18.70	18.30	21.51	23.98		-1.80		26.99	Pass
VHT40	MCS0	2	134	5670	18.50	18.50	21.51	23.98		-1.80		26.99	Pass
VHT80	MCS0	2	106	5530	16.20	15.80	19.01	23.98		-1.80		26.99	Pass
VHT80	MCS0	2	122	5610	18.50	18.50	21.51	23.98		-1.80		26.99	Pass
VHT160	MCS0	2	114	5570	15.00	14.70	17.86	23.98		-1.80		26.99	Pass

FCC Band III straddle channel MIMO													
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 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	144	5720	19.40	19.70	22.56	23.98		-1.80		26.99	Pass
HT20	MCS0	2	144	5720	19.60	19.90	22.76	23.98		-1.80		26.99	Pass
HT40	MCS0	2	142	5710	18.30	18.20	21.26	23.98		-1.80		26.99	Pass
VHT20	MCS0	2	144	5720	19.50	19.80	22.66	23.98		-1.80		26.99	Pass
VHT40	MCS0	2	142	5710	18.40	18.50	21.46	23.98		-1.80		26.99	Pass
VHT80	MCS0	2	138	5690	18.30	18.40	21.36	23.98		-1.80		26.99	Pass

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TEST RESULTS DATA
Power Spectral Density

Band III MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	100	5500			8.88	11.00		1.01			Pass
11a	6Mbps	2	116	5600			9.66	11.00		1.01			Pass
11a	6Mbps	2	140	5700			7.39	11.00		1.01			Pass
HT20	MCS0	2	100	5500			8.66	11.00		1.01			Pass
HT20	MCS0	2	116	5580			10.17	11.00		1.01			Pass
HT20	MCS0	2	140	5700			5.26	11.00		1.01			Pass
HT40	MCS0	2	102	5510			3.34	11.00		1.01			Pass
HT40	MCS0	2	110	5550			6.55	11.00		1.01			Pass
HT40	MCS0	2	134	5670			6.67	11.00		1.01			Pass
VHT80	MCS0	2	106	5530			0.86	11.00		1.01			Pass
VHT80	MCS0	2	122	5610			3.64	11.00		1.01			Pass

Band III straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
11a	6Mbps	2	144	5720			10.24	11.00		1.01			Pass
HT20	MCS0	2	144	5720			10.04	11.00		1.01			Pass
HT40	MCS0	2	142	5710			6.65	11.00		1.01			Pass
VHT80	MCS0	2	138	5690			3.76	11.00		1.01			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band I MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
						Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3		
HE160	MCS0	2	50	5250	Full	156.56	156.80	165.12	166.40	-		23.01			

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
						Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
HE20	MCS0	2	36	5180	Full	19.20	19.70	22.47	24.00		-3.10			Pass
HE20	MCS0	2	36	5180	26/0	9.70	9.60	12.66	24.00		-3.10			Pass
HE20	MCS0	2	36	5180	52/37	12.70	12.70	15.71	24.00		-3.10			Pass
HE20	MCS0	2	36	5180	106/53	15.80	16.30	19.07	24.00		-3.10			Pass
HE20	MCS0	2	44	5220	Full	19.30	19.70	22.51	24.00		-3.10			Pass
HE20	MCS0	2	44	5220	26/4	10.80	10.60	13.71	24.00		-3.10			Pass
HE20	MCS0	2	44	5220	52/39	12.40	12.30	15.36	24.00		-3.10			Pass
HE20	MCS0	2	44	5220	106/53	15.90	16.20	19.06	24.00		-3.10			Pass
HE20	MCS0	2	48	5240	Full	19.30	19.70	22.51	24.00		-3.10			Pass
HE20	MCS0	2	48	5240	26/8	9.70	9.40	12.56	24.00		-3.10			Pass
HE20	MCS0	2	48	5240	52/40	12.70	12.50	15.61	24.00		-3.10			Pass
HE20	MCS0	2	48	5240	106/54	15.40	15.70	18.56	24.00		-3.10			Pass
HE40	MCS0	2	38	5190	Full	15.50	15.60	18.56	24.00		-3.10			Pass
HE40	MCS0	2	46	5230	Full	18.50	18.70	21.61	24.00		-3.10			Pass
HE80	MCS0	2	42	5210	Full	15.90	15.70	18.81	24.00		-3.10			Pass
HE160	MCS0	2	50	5250	Full	13.90	13.40	16.67	24.00		-3.10			Pass

TEST RESULTS DATA
Power Spectral Density

FCC Band I MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 4	Ant 3	Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
HE20	MCS0	2	36	5180	Full	0.17	0.17			9.31	11.00		-0.67			Pass
HE20	MCS0	2	36	5180	26/0	0.17	0.17			9.11	11.00		-0.67			Pass
HE20	MCS0	2	36	5180	52/37	0.17	0.17			9.20	11.00		-0.67			Pass
HE20	MCS0	2	36	5180	106/53	0.17	0.17			9.29	11.00		-0.67			Pass
HE20	MCS0	2	44	5220	Full	0.17	0.17			9.44	11.00		-0.67			Pass
HE20	MCS0	2	44	5220	26/4	0.17	0.17			9.27	11.00		-0.67			Pass
HE20	MCS0	2	44	5220	52/39	0.17	0.17			9.25	11.00		-0.67			Pass
HE20	MCS0	2	44	5220	106/53	0.17	0.17			9.43	11.00		-0.67			Pass
HE20	MCS0	2	48	5240	Full	0.17	0.17			9.45	11.00		-0.67			Pass
HE20	MCS0	2	48	5240	26/8	0.17	0.17			9.33	11.00		-0.67			Pass
HE20	MCS0	2	48	5240	52/40	0.17	0.17			9.41	11.00		-0.67			Pass
HE20	MCS0	2	48	5240	106/54	0.17	0.17			9.04	11.00		-0.67			Pass
HE160	MCS0	2	50	5250	Full	0.65	0.64			-4.37	11.00		-0.67			Pass

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
HE20	MCS0	2	52	5260	Full	19.20	19.40	22.31	23.98		-2.30		26.99	Pass
HE20	MCS0	2	52	5260	26/0	9.90	9.70	12.81	23.98		-2.30		26.99	Pass
HE20	MCS0	2	52	5260	52/37	12.80	12.60	15.71	23.98		-2.30		26.99	Pass
HE20	MCS0	2	52	5260	106/53	16.00	16.20	19.11	23.98		-2.30		26.99	Pass
HE20	MCS0	2	60	5300	Full	18.00	17.40	20.72	23.98		-2.30		26.99	Pass
HE20	MCS0	2	60	5300	26/4	9.20	8.70	11.97	23.98		-2.30		26.99	Pass
HE20	MCS0	2	60	5300	52/39	10.60	10.10	13.37	23.98		-2.30		26.99	Pass
HE20	MCS0	2	60	5300	106/54	14.20	13.60	16.92	23.98		-2.30		26.99	Pass
HE20	MCS0	2	64	5320	Full	17.60	17.00	20.32	23.98		-2.30		26.99	Pass
HE20	MCS0	2	64	5320	26/8	8.00	7.00	10.54	23.98		-2.30		26.99	Pass
HE20	MCS0	2	64	5320	52/40	10.80	9.90	13.38	23.98		-2.30		26.99	Pass
HE20	MCS0	2	64	5320	106/54	13.40	13.10	16.26	23.98		-2.30		26.99	Pass
HE40	MCS0	2	54	5270	Full	18.40	18.50	21.46	23.98		-2.30		26.99	Pass
HE40	MCS0	2	62	5310	Full	15.70	15.20	18.47	23.98		-2.30		26.99	Pass
HE80	MCS0	2	58	5290	Full	15.80	15.30	18.57	23.98		-2.30		26.99	Pass

Report Number : FR161608-03E

TEST RESULTS DATA
Power Spectral Density

Band II MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
HE20	MCS0	2	52	5260	Full			9.59	11.00		-0.14			Pass
HE20	MCS0	2	52	5260	26/0			9.39	11.00		-0.14			Pass
HE20	MCS0	2	52	5260	52/37			9.48	11.00		-0.14			Pass
HE20	MCS0	2	52	5260	106/53			9.36	11.00		-0.14			Pass
HE20	MCS0	2	60	5300	Full			7.65	11.00		-0.14			Pass
HE20	MCS0	2	60	5300	26/4			7.41	11.00		-0.14			Pass
HE20	MCS0	2	60	5300	52/39			7.05	11.00		-0.14			Pass
HE20	MCS0	2	60	5300	106/54			7.17	11.00		-0.14			Pass
HE20	MCS0	2	64	5320	Full			7.12	11.00		-0.14			Pass
HE20	MCS0	2	64	5320	26/8			6.86	11.00		-0.14			Pass
HE20	MCS0	2	64	5320	52/40			7.01	11.00		-0.14			Pass
HE20	MCS0	2	64	5320	106/54			6.82	11.00		-0.14			Pass

TEST RESULTS DATA
26dB and 99% OBW

Band III MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	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 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3	Ant 4	Ant 3
HE160	MCS0	2	114	5570	Full	156.56	156.56	165.44	166.40	23.98		30.00		23.98		----	----

Report Number : FR161608-03E

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
HE20	MCS0	2	100	5500	Full	18.70	18.60	21.66	23.98		-1.80		26.99	Pass
HE20	MCS0	2	100	5500	26/0	10.60	10.30	13.46	23.98		-1.80		26.99	Pass
HE20	MCS0	2	100	5500	52/37	13.40	13.00	16.21	23.98		-1.80		26.99	Pass
HE20	MCS0	2	100	5500	106/53	16.40	16.50	19.46	23.98		-1.80		26.99	Pass
HE20	MCS0	2	116	5580	Full	19.80	19.70	22.76	23.98		-1.80		26.99	Pass
HE20	MCS0	2	116	5580	26/4	11.40	11.40	14.41	23.98		-1.80		26.99	Pass
HE20	MCS0	2	116	5580	52/38	13.70	13.30	16.51	23.98		-1.80		26.99	Pass
HE20	MCS0	2	116	5580	106/53	16.50	16.90	19.71	23.98		-1.80		26.99	Pass
HE20	MCS0	2	140	5700	Full	15.40	15.30	18.36	23.98		-1.80		26.99	Pass
HE20	MCS0	2	140	5700	26/8	7.70	7.10	10.42	23.98		-1.80		26.99	Pass
HE20	MCS0	2	140	5700	52/40	10.20	10.00	13.11	23.98		-1.80		26.99	Pass
HE20	MCS0	2	140	5700	106/54	13.00	13.40	16.21	23.98		-1.80		26.99	Pass
HE40	MCS0	2	102	5510	Full	15.50	15.00	18.27	23.98		-1.80		26.99	Pass
HE40	MCS0	2	110	5550	Full	18.60	18.20	21.41	23.98		-1.80		26.99	Pass
HE40	MCS0	2	134	5670	Full	18.40	18.40	21.41	23.98		-1.80		26.99	Pass
HE80	MCS0	2	106	5530	Full	16.10	15.70	18.91	23.98		-1.80		26.99	Pass
HE80	MCS0	2	122	5610	Full	18.40	18.40	21.41	23.98		-1.80		26.99	Pass
HE160	MCS0	2	114	5570	Full	15.10	14.80	17.96	23.98		-1.80		26.99	Pass

FCC Band III straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
HE20	MCS0	2	144	5720	Full	19.40	19.70	22.56	23.98		-1.80		26.99	Pass
HE20	MCS0	2	144	5720	26/8	10.60	10.50	13.56	23.98		-1.80		26.99	Pass
HE20	MCS0	2	144	5720	52/40	13.60	13.70	16.66	23.98		-1.80		26.99	Pass
HE20	MCS0	2	144	5720	106/54	16.50	16.90	19.71	23.98		-1.80		26.99	Pass
HE40	MCS0	2	142	5710	Full	18.30	18.40	21.36	23.98		-1.80		26.99	Pass
HE80	MCS0	2	138	5690	Full	18.20	18.30	21.26	23.98		-1.80		26.99	Pass

Report Number : FR161608-03E

TEST RESULTS DATA
Power Spectral Density

Band III MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
HE20	MCS0	2	100	5500	Full			10.00	11.00		1.01			Pass
HE20	MCS0	2	100	5500	26/0			9.88	11.00		1.01			Pass
HE20	MCS0	2	100	5500	52/37			9.84	11.00		1.01			Pass
HE20	MCS0	2	100	5500	106/53			9.89	11.00		1.01			Pass
HE20	MCS0	2	116	5580	Full			10.08	11.00		1.01			Pass
HE20	MCS0	2	116	5580	26/4			9.75	11.00		1.01			Pass
HE20	MCS0	2	116	5580	52/38			9.97	11.00		1.01			Pass
HE20	MCS0	2	116	5580	106/53			9.93	11.00		1.01			Pass
HE20	MCS0	2	140	5700	Full			6.96	11.00		1.01			Pass
HE20	MCS0	2	140	5700	26/8			6.67	11.00		1.01			Pass
HE20	MCS0	2	140	5700	52/40			6.81	11.00		1.01			Pass
HE20	MCS0	2	140	5700	106/54			6.61	11.00		1.01			Pass
HE160	MCS0	2	114	5570	Full			-3.23	11.00		1.01			Pass

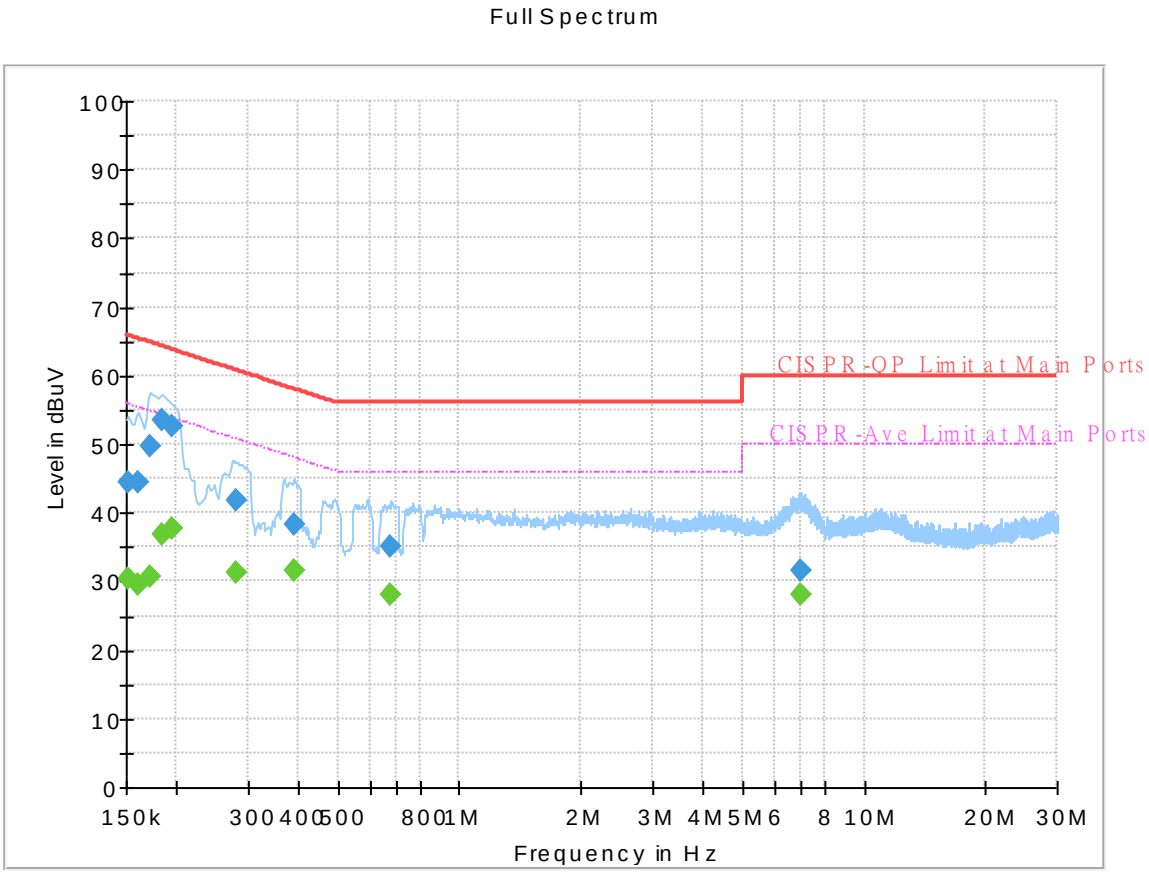
Band III straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 4	Ant 3	SUM	Ant 4	Ant 3	Ant 4	Ant 3		
HE20	MCS0	2	144	5720	Full			10.03	11.00		1.01			Pass
HE20	MCS0	2	144	5720	26/8			9.82	11.00		1.01			Pass
HE20	MCS0	2	144	5720	52/40			9.94	11.00		1.01			Pass
HE20	MCS0	2	144	5720	106/54			9.99	11.00		1.01			Pass

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	**Temperature :**	23~26℃
		Relative Humidity :	45~55%

EUT Information

Report NO :	161608-03
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line



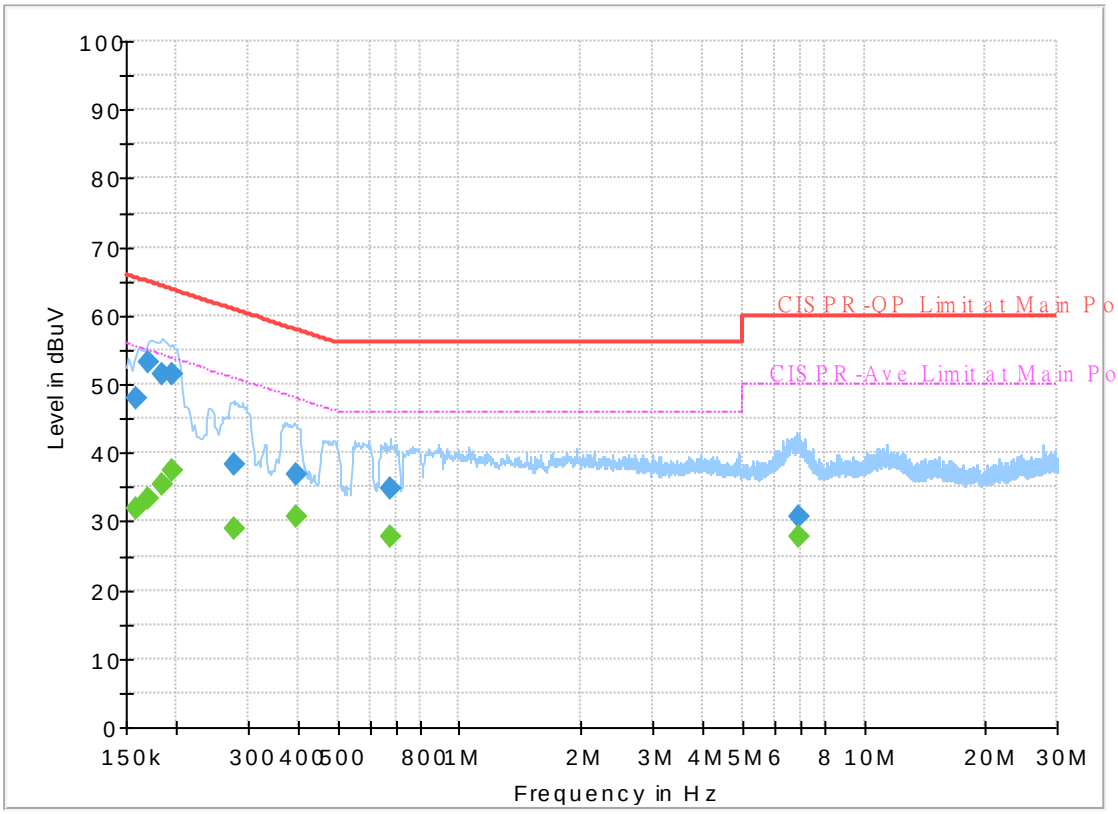
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	30.50	55.88	25.38	L1	OFF	19.7
0.152250	44.40	---	65.88	21.48	L1	OFF	19.7
0.161250	---	29.54	55.40	25.86	L1	OFF	19.7
0.161250	44.30	---	65.40	21.10	L1	OFF	19.7
0.172500	---	30.78	54.84	24.06	L1	OFF	19.7
0.172500	49.64	---	64.84	15.20	L1	OFF	19.7
0.183750	---	36.70	54.31	17.61	L1	OFF	19.7
0.183750	53.53	---	64.31	10.78	L1	OFF	19.7
0.195000	---	37.72	53.82	16.10	L1	OFF	19.7
0.195000	52.63	---	63.82	11.19	L1	OFF	19.7
0.280500	---	31.28	50.80	19.52	L1	OFF	19.7
0.280500	41.90	---	60.80	18.90	L1	OFF	19.7
0.388500	---	31.50	48.10	16.60	L1	OFF	19.7
0.388500	38.42	---	58.10	19.68	L1	OFF	19.7
0.678750	---	28.15	46.00	17.85	L1	OFF	20.0
0.678750	35.14	---	56.00	20.86	L1	OFF	20.0
7.014750	---	28.20	50.00	21.80	L1	OFF	20.1
7.014750	31.72	---	60.00	28.28	L1	OFF	20.1

EUT Information

Report NO :	161608-03
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)
0.159000	---	31.73	55.52	23.79	N	OFF	19.7
0.159000	47.84	---	65.52	17.68	N	OFF	19.7
0.170250	---	33.37	54.95	21.58	N	OFF	19.7
0.170250	53.16	---	64.95	11.79	N	OFF	19.7
0.183750	---	35.49	54.31	18.82	N	OFF	19.7
0.183750	51.60	---	64.31	12.71	N	OFF	19.7
0.195000	---	37.39	53.82	16.43	N	OFF	19.7
0.195000	51.55	---	63.82	12.27	N	OFF	19.7
0.276000	---	28.97	50.94	21.97	N	OFF	19.7
0.276000	38.42	---	60.94	22.52	N	OFF	19.7
0.393000	---	30.68	48.00	17.32	N	OFF	19.7
0.393000	36.98	---	58.00	21.02	N	OFF	19.7
0.676500	---	27.82	46.00	18.18	N	OFF	20.0
0.676500	34.77	---	56.00	21.23	N	OFF	20.0
6.868500	---	27.75	50.00	22.25	N	OFF	20.1
6.868500	30.64	---	60.00	29.36	N	OFF	20.1

Appendix C. Radiated Spurious Emission

Test Engineer :	Karl Hou and Andy Yang	Temperature :	20~25°C
		Relative Humidity :	50~60%

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.
4+3		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5147.68	64.01	-9.99	74	49.85	31.8	12.03	29.67	209	307	P	H
		5147.68	51.94	-2.06	54	37.78	31.8	12.03	29.67	209	307	A	H
	*	5180	112.2	-	-	98.12	31.68	12.08	29.68	209	307	P	H
	*	5180	104.74	-	-	90.66	31.68	12.08	29.68	209	307	A	H
													H
													H
		5149.76	61.13	-12.87	74	46.97	31.8	12.03	29.67	314	219	P	V
		5148.2	48.79	-5.21	54	34.63	31.8	12.03	29.67	314	219	A	V
	*	5180	108.93	-	-	94.85	31.68	12.08	29.68	314	219	P	V
	*	5180	101.65	-	-	87.57	31.68	12.08	29.68	314	219	A	V
													V
													V
802.11a CH 44 5220MHz		5091.52	53.51	-20.49	74	39.36	31.87	11.94	29.66	252	307	P	H
		5116.22	43.4	-10.6	54	29.22	31.87	11.98	29.67	252	307	A	H
	*	5220	112.02	-	-	98.05	31.48	12.18	29.69	252	307	P	H
	*	5220	104.63	-	-	90.66	31.48	12.18	29.69	252	307	A	H
		5435.36	53.37	-20.63	74	38.64	31.64	12.81	29.72	252	307	P	H
		5395.6	43.46	-10.54	54	28.92	31.47	12.78	29.71	252	307	A	H
		5138.06	53.61	-20.39	74	39.45	31.82	12.01	29.67	283	224	P	V
		5125.32	42.94	-11.06	54	28.77	31.85	11.99	29.67	283	224	A	V
	*	5220	107.07	-	-	93.1	31.48	12.18	29.69	283	224	P	V
	*	5220	99.85	-	-	85.88	31.48	12.18	29.69	283	224	A	V
		5410.72	52.87	-21.13	74	38.26	31.54	12.79	29.72	283	224	P	V
		5448.8	42.72	-11.28	54	27.93	31.7	12.81	29.72	283	224	A	V

WIFI Ant. 4+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 48 5240MHz		5075.4	53.55	-20.45	74	39.49	31.8	11.92	29.66	197	312	P	H
		5094.9	43.48	-10.52	54	29.32	31.88	11.95	29.67	197	312	A	H
	*	5240	112.19	-	-	98.27	31.36	12.25	29.69	197	312	P	H
	*	5240	104.7	-	-	90.78	31.36	12.25	29.69	197	312	A	H
		5355.84	54.6	-19.4	74	40.43	31.24	12.64	29.71	197	312	P	H
		5407.64	43.37	-10.63	54	28.77	31.53	12.79	29.72	197	312	A	H
		5044.98	53.76	-20.24	74	39.86	31.69	11.87	29.66	305	215	P	V
		5099.32	42.83	-11.17	54	28.65	31.9	11.95	29.67	305	215	A	V
	*	5240	108.32	-	-	94.4	31.36	12.25	29.69	305	215	P	V
	*	5240	110.83	-	-	96.91	31.36	12.25	29.69	305	215	A	V
		5369	53.09	-20.91	74	38.81	31.31	12.68	29.71	305	215	P	V
		5405.12	42.75	-11.25	54	28.15	31.52	12.79	29.71	305	215	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. 4+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	64.03	-4.17	68.2	67.54	39.58	18.9	61.99	233	305	P	H
		10883	51.29	-22.71	74	53.51	40.35	18.99	61.56	-	-	P	H
		10883	41.01	-12.99	54	43.23	40.35	18.99	61.56	-	-	A	H
		14491	51.67	-22.33	74	48.73	42	21.75	60.81	-	-	P	H
		14491	41.16	-12.84	54	38.22	42	21.75	60.81	-	-	A	H
		15540	49.59	-24.41	74	49.54	37.94	22.65	60.54	203	336	P	H
		15540	40.41	-13.59	54	40.36	37.94	22.65	60.54	203	336	A	H
		18000	58.94	-15.06	74	41.06	49.2	25.48	56.8	-	-	P	H
		18000	47.79	-6.21	54	29.91	49.2	25.48	56.8	-	-	A	H
													H
													H
													H
		10360	56.52	-11.68	68.2	60.03	39.58	18.9	61.99	-	-	P	V
		10883	51.15	-22.85	74	53.37	40.35	18.99	61.56	-	-	P	V
		10883	40.81	-13.19	54	43.03	40.35	18.99	61.56	-	-	A	V
		14491	51.82	-22.18	74	48.88	42	21.75	60.81	-	-	P	V
		14491	41.06	-12.94	54	38.12	42	21.75	60.81	-	-	A	V
		15540	55.9	-18.1	74	55.85	37.94	22.65	60.54	187	354	P	V
		15540	43.64	-10.36	54	43.59	37.94	22.65	60.54	187	354	A	V
		17978	58.35	-15.65	74	41.02	48.69	25.47	56.83	-	-	P	V
		17978	47.86	-6.14	54	30.53	48.69	25.47	56.83	-	-	A	V
													V
													V
													V

WIFI Ant. 4+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 44 5220MHz		10440	62.39	-5.81	68.2	65.79	39.74	18.91	62.05	323	304	P	H
		10784	52.7	-21.3	74	55.38	40.05	18.97	61.7	-	-	P	H
		10784	40.73	-13.27	54	43.41	40.05	18.97	61.7	-	-	A	H
		14491	52.82	-21.18	74	49.88	42	21.75	60.81	-	-	P	H
		14491	43.13	-10.87	54	40.19	42	21.75	60.81	-	-	A	H
		15660	47.88	-26.12	74	47.9	37.58	22.74	60.34	-	-	P	H
		17967	62.12	-11.88	74	45.06	48.44	25.46	56.84	-	-	P	H
		17967	47.25	-6.75	54	30.19	48.44	25.46	56.84	-	-	A	H
													H
													H
													H
													H
		10440	54.14	-14.06	68.2	57.54	39.74	18.91	62.05	-	-	P	V
		10729	52.79	-21.21	74	55.72	39.89	18.96	61.78	-	-	P	V
		10729	40.91	-13.09	54	43.84	39.89	18.96	61.78	-	-	A	V
		14491	54.19	-19.81	74	51.25	42	21.75	60.81	-	-	P	V
		14491	43.24	-10.76	54	40.3	42	21.75	60.81	-	-	A	V
		15660	51.2	-22.8	74	51.22	37.58	22.74	60.34	183	348	P	V
		15660	42.5	-11.5	54	42.52	37.58	22.74	60.34	183	348	A	V
		17989	61.69	-12.31	74	44.07	48.95	25.48	56.81	-	-	P	V
		17989	47.76	-6.24	54	30.14	48.95	25.48	56.81	-	-	A	V
													V
													V
													V

WIFI Ant. 4+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 48 5240MHz		10480	61.02	-7.18	68.2	64.4	39.78	18.92	62.08	248	293	P	H
		10927	53.32	-20.68	74	55.43	40.4	18.99	61.5	-	-	P	H
		10927	42.37	-11.63	54	44.48	40.4	18.99	61.5	-	-	A	H
		14491	53.15	-20.85	74	50.21	42	21.75	60.81	-	-	P	H
		14491	43.53	-10.47	54	40.59	42	21.75	60.81	-	-	A	H
		15720	47.93	-26.07	74	47.98	37.42	22.78	60.25	-	-	P	H
		17956	62.35	-11.65	74	45.55	48.19	25.46	56.85	-	-	P	H
		17956	47.03	-6.97	54	30.23	48.19	25.46	56.85	-	-	A	H
													H
													H
													H
													H
		10480	54.02	-14.18	68.2	57.4	39.78	18.92	62.08	-	-	P	V
		10971	52.75	-21.25	74	54.78	40.4	19.01	61.44	-	-	P	V
		10971	42.1	-11.9	54	44.13	40.4	19.01	61.44	-	-	A	V
		14491	52.75	-21.25	74	49.81	42	21.75	60.81	-	-	P	V
		14491	46.46	-7.54	54	43.52	42	21.75	60.81	-	-	A	V
		15720	52.76	-21.24	74	52.81	37.42	22.78	60.25	183	353	P	V
		15720	42.09	-11.91	54	42.14	37.42	22.78	60.25	183	353	A	V
		18000	62.53	-11.47	74	44.65	49.2	25.48	56.8	-	-	P	V
		18000	47.98	-6.02	54	30.1	49.2	25.48	56.8	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 4+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 36 5180MHz		5148.46	61.21	-12.79	74	47.05	31.8	12.03	29.67	195	309	P	H
		5148.72	51.55	-2.45	54	37.39	31.8	12.03	29.67	195	309	A	H
	*	5180	109.97	-	-	95.89	31.68	12.08	29.68	195	309	P	H
	*	5180	102.38	-	-	88.3	31.68	12.08	29.68	195	309	A	H
													H
													H
		5149.24	56.69	-17.31	74	42.53	31.8	12.03	29.67	309	227	P	V
		5149.5	47.44	-6.56	54	33.28	31.8	12.03	29.67	309	227	A	V
	*	5180	106.77	-	-	92.69	31.68	12.08	29.68	309	227	P	V
	*	5180	99.82	-	-	85.74	31.68	12.08	29.68	309	227	A	V
													V
													V
802.11n HT20 CH 44 5220MHz		5145.86	57.51	-16.49	74	43.34	31.81	12.03	29.67	247	312	P	H
		5124.02	42.6	-11.4	54	28.43	31.85	11.99	29.67	247	312	A	H
	*	5220	110.58	-	-	96.61	31.48	12.18	29.69	247	312	P	H
	*	5220	103.21	-	-	89.24	31.48	12.18	29.69	247	312	A	H
		5416.88	52.86	-21.14	74	38.21	31.57	12.8	29.72	247	312	P	H
		5388.88	42.62	-11.38	54	28.15	31.43	12.75	29.71	247	312	A	H
		5090.74	52.89	-21.11	74	38.75	31.86	11.94	29.66	328	227	P	V
		5145.08	42.63	-11.37	54	28.47	31.81	12.02	29.67	328	227	A	V
	*	5220	106.37	-	-	92.4	31.48	12.18	29.69	328	227	P	V
	*	5220	98.82	-	-	84.85	31.48	12.18	29.69	328	227	A	V
		5384.12	52.47	-21.53	74	38.04	31.4	12.74	29.71	328	227	P	V
		5449.36	42.63	-11.37	54	27.84	31.7	12.81	29.72	328	227	A	V

WIFI Ant. 4+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 48 5240MHz		5111.54	57.02	-16.98	74	42.84	31.88	11.97	29.67	246	308	P	H
		5083.2	43.29	-10.71	54	29.19	31.83	11.93	29.66	246	308	A	H
	*	5240	111.26	-	-	97.34	31.36	12.25	29.69	246	308	P	H
	*	5240	103.3	-	-	89.38	31.36	12.25	29.69	246	308	A	H
		5378.8	55.64	-18.36	74	41.26	31.37	12.72	29.71	246	308	P	H
		5432.56	43.3	-10.7	54	28.59	31.63	12.8	29.72	246	308	A	H
		5145.86	53.94	-20.06	74	39.77	31.81	12.03	29.67	287	215	P	V
		5133.12	42.67	-11.33	54	28.5	31.83	12.01	29.67	287	215	A	V
	*	5240	106.53	-	-	92.61	31.36	12.25	29.69	287	215	P	V
	*	5240	98.11	-	-	84.19	31.36	12.25	29.69	287	215	A	V
		5375.16	53.26	-20.74	74	38.91	31.35	12.71	29.71	287	215	P	V
		5405.12	42.85	-11.15	54	28.25	31.52	12.79	29.71	287	215	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. 4+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	60.03	-8.17	68.2	63.54	39.58	18.9	61.99	274	293	P	H
		10927	53.58	-20.42	74	55.69	40.4	18.99	61.5	-	-	P	H
		10927	41.03	-12.97	54	43.14	40.4	18.99	61.5	-	-	A	H
		14480	53.92	-20.08	74	51	42	21.74	60.82	-	-	P	H
		14480	43.51	-10.49	54	40.59	42	21.74	60.82	-	-	A	H
		15540	47.93	-26.07	74	47.88	37.94	22.65	60.54	-	-	P	H
		17989	62.2	-11.8	74	44.58	48.95	25.48	56.81	-	-	P	H
		17989	47.76	-6.24	54	30.14	48.95	25.48	56.81	-	-	A	H
													H
													H
802.11n													H
HT20													H
CH 36		10360	54.48	-13.72	68.2	57.99	39.58	18.9	61.99	-	-	P	V
5180MHz		10652	52.48	-21.52	74	55.52	39.9	18.95	61.89	-	-	P	V
		10652	40.37	-13.63	54	43.41	39.9	18.95	61.89	-	-	A	V
		14471	53.59	-20.41	74	50.69	42	21.73	60.83	-	-	P	V
		14471	43.55	-10.45	54	40.65	42	21.73	60.83	-	-	A	V
		15540	52.17	-21.83	74	52.12	37.94	22.65	60.54	190	355	P	V
		15540	42.46	-11.54	54	42.41	37.94	22.65	60.54	190	355	A	V
		17945	62.16	-11.84	74	45.64	47.94	25.45	56.87	-	-	P	V
		17945	47.57	-6.43	54	31.05	47.94	25.45	56.87	-	-	A	V
													V
													V
													V

WIFI Ant. 4+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)
		10440	60.93	-7.27	68.2	64.33	39.74	18.91	62.05	228	299	P	H
		10850	53.48	-20.52	74	55.86	40.25	18.98	61.61	-	-	P	H
		10850	40.76	-13.24	54	43.14	40.25	18.98	61.61	-	-	A	H
		14491	52.98	-21.02	74	50.04	42	21.75	60.81	-	-	P	H
		14491	43.22	-10.78	54	40.28	42	21.75	60.81	-	-	A	H
		15660	47.82	-26.18	74	47.84	37.58	22.74	60.34	-	-	P	H
		17989	62.14	-11.86	74	44.52	48.95	25.48	56.81	-	-	P	H
		17989	47.72	-6.28	54	30.1	48.95	25.48	56.81	-	-	A	H
													H
													H
i802.11n													H
HT20													H
CH 44		10440	53.77	-14.43	68.2	57.17	39.74	18.91	62.05	-	-	P	V
5220MHz		10861	52.34	-21.66	74	54.66	40.28	18.99	61.59	-	-	P	V
		10861	41.35	-12.65	54	43.67	40.28	18.99	61.59	-	-	A	V
		14491	53.25	-20.75	74	50.31	42	21.75	60.81	-	-	P	V
		14491	43.54	-10.46	54	40.6	42	21.75	60.81	-	-	A	V
		15660	47.9	-26.1	74	47.92	37.58	22.74	60.34	-	-	P	V
		17989	62.51	-11.49	74	44.89	48.95	25.48	56.81	-	-	P	V
		17989	47.77	-6.23	54	30.15	48.95	25.48	56.81	-	-	A	V
													V
													V
													V
													V

WIFI Ant. 4+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)
		10480	60.83	-7.37	68.2	64.21	39.78	18.92	62.08	228	298	P	H
		11026	52.77	-21.23	74	54.81	40.3	19.02	61.36	-	-	P	H
		11026	41.52	-12.48	54	43.56	40.3	19.02	61.36	-	-	A	H
		14480	53.13	-20.87	74	50.21	42	21.74	60.82	-	-	P	H
		14480	43.11	-10.89	54	40.19	42	21.74	60.82	-	-	A	H
		15720	47.78	-26.22	74	47.83	37.42	22.78	60.25	-	-	P	H
		17967	61.83	-12.17	74	44.77	48.44	25.46	56.84	-	-	P	H
		17967	47.68	-6.32	54	30.62	48.44	25.46	56.84	-	-	A	H
													H
													H
802.11n													H
HT20													H
CH 48		10480	56.1	-12.1	68.2	59.48	39.78	18.92	62.08	-	-	P	V
5240MHz		10916	52.8	-21.2	74	54.92	40.4	19	61.52	-	-	P	V
		10916	41.62	-12.38	54	43.74	40.4	19	61.52	-	-	A	V
		14471	53.12	-20.88	74	50.22	42	21.73	60.83	-	-	P	V
		14471	43.03	-10.97	54	40.13	42	21.73	60.83	-	-	A	V
		15720	47.96	-26.04	74	48.01	37.42	22.78	60.25	-	-	P	V
		18000	61.99	-12.01	74	44.11	49.2	25.48	56.8	-	-	P	V
		18000	47.77	-6.23	54	29.89	49.2	25.48	56.8	-	-	A	V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 1 5150~5250MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 4+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	65.46	-8.54	74	51.3	31.8	12.03	29.67	245	308	P	H
		5150	50.96	-3.04	54	36.8	31.8	12.03	29.67	245	308	A	H
	*	5190	105.51	-	-	91.46	31.64	12.09	29.68	245	308	P	H
	*	5190	97.55	-	-	83.5	31.64	12.09	29.68	245	308	A	H
		5456.64	53.63	-20.37	74	38.83	31.7	12.82	29.72	245	308	P	H
		5374.88	43.06	-10.94	54	28.72	31.35	12.7	29.71	245	308	A	H
		5148.72	60.76	-13.24	74	46.6	31.8	12.03	29.67	176	211	P	V
		5149.24	47.49	-6.51	54	33.33	31.8	12.03	29.67	176	211	A	V
	*	5190	102.26	-	-	88.21	31.64	12.09	29.68	176	211	P	V
	*	5190	94.74	-	-	80.69	31.64	12.09	29.68	176	211	A	V
		5414.36	52.58	-21.42	74	37.94	31.56	12.8	29.72	176	211	P	V
		5431.16	42.53	-11.47	54	27.83	31.62	12.8	29.72	176	211	A	V
802.11n HT40 CH 46 5230MHz		5128.7	55.25	-18.75	74	41.08	31.84	12	29.67	251	308	P	H
		5147.68	44.41	-9.59	54	30.25	31.8	12.03	29.67	251	308	A	H
	*	5230	108.62	-	-	94.68	31.42	12.21	29.69	251	308	P	H
	*	5230	100.14	-	-	86.2	31.42	12.21	29.69	251	308	A	H
		5410.44	53.46	-20.54	74	38.85	31.54	12.79	29.72	251	308	P	H
		5351.08	43.33	-10.67	54	29.21	31.21	12.62	29.71	251	308	A	H
		5092.56	53.37	-20.63	74	39.22	31.87	11.94	29.66	294	213	P	V
		5148.98	43.03	-10.97	54	28.87	31.8	12.03	29.67	294	213	A	V
	*	5230	103.09	-	-	89.15	31.42	12.21	29.69	294	213	P	V
	*	5230	95.18	-	-	81.24	31.42	12.21	29.69	294	213	A	V
		5440.12	52.99	-21.01	74	38.24	31.66	12.81	29.72	294	213	P	V
		5431.44	42.75	-11.25	54	28.04	31.63	12.8	29.72	294	213	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. 4+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	52.91	-15.29	68.2	56.37	39.64	18.9	62	-	-	P	H
		10894	52.4	-21.6	74	54.57	40.38	19	61.55	-	-	P	H
		10894	40.98	-13.02	54	43.15	40.38	19	61.55	-	-	A	H
		14480	53.35	-20.65	74	50.43	42	21.74	60.82	-	-	P	H
		14480	43.38	-10.62	54	40.46	42	21.74	60.82	-	-	A	H
		15570	47.88	-26.12	74	47.87	37.82	22.68	60.49	-	-	P	H
		18000	62.25	-11.75	74	44.37	49.2	25.48	56.8	-	-	P	H
		18000	47.95	-6.05	54	30.07	49.2	25.48	56.8	-	-	A	H
													H
													H
802.11n													H
HT40													H
CH 38		10380	51.43	-16.77	68.2	54.89	39.64	18.9	62	-	-	P	V
5190MHz		10850	52.75	-21.25	74	55.13	40.25	18.98	61.61	-	-	P	V
		10850	41.04	-12.96	54	43.42	40.25	18.98	61.61	-	-	A	V
		14471	53.92	-20.08	74	51.02	42	21.73	60.83	-	-	P	V
		14471	43.41	-10.59	54	40.51	42	21.73	60.83	-	-	A	V
		15570	47.95	-26.05	74	47.94	37.82	22.68	60.49	-	-	P	V
		17978	62.37	-11.63	74	45.04	48.69	25.47	56.83	-	-	P	V
		17978	47.45	-6.55	54	30.12	48.69	25.47	56.83	-	-	A	V
													V
													V
													V
													V

WIFI Ant. 4+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)
		10460	53.71	-14.49	68.2	57.11	39.76	18.91	62.07	-	-	P	H
		10905	52.97	-21.03	74	55.11	40.4	18.99	61.53	-	-	P	H
		10905	41.01	-12.99	54	43.15	40.4	18.99	61.53	-	-	A	H
		14491	53.71	-20.29	74	50.77	42	21.75	60.81	-	-	P	H
		14491	43.12	-10.88	54	40.18	42	21.75	60.81	-	-	A	H
		15690	47.84	-26.16	74	47.86	37.52	22.76	60.3	-	-	P	H
		18000	62.43	-11.57	74	44.55	49.2	25.48	56.8	-	-	P	H
		18000	47.99	-6.01	54	30.11	49.2	25.48	56.8	-	-	A	H
													H
													H
802.11n													H
HT40													H
CH 46		10460	51.79	-16.41	68.2	55.19	39.76	18.91	62.07	-	-	P	V
5230MHz		10894	53.3	-20.7	74	55.47	40.38	19	61.55	-	-	P	V
		10894	41.24	-12.76	54	43.41	40.38	19	61.55	-	-	A	V
		14471	52.85	-21.15	74	49.95	42	21.73	60.83	-	-	P	V
		14471	43.31	-10.69	54	40.41	42	21.73	60.83	-	-	A	V
		15690	47.86	-26.14	74	47.88	37.52	22.76	60.3	-	-	P	V
		17945	61.74	-12.26	74	45.22	47.94	25.45	56.87	-	-	P	V
		17945	46.88	-7.12	54	30.36	47.94	25.45	56.87	-	-	A	V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 4+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		5137.02	60.77	-13.23	74	46.6	31.83	12.01	29.67	246	313	P	H
		5147.68	51.25	-2.75	54	37.09	31.8	12.03	29.67	246	313	A	H
	*	5210	102.81	-	-	88.81	31.54	12.14	29.68	246	313	P	H
	*	5210	94.93	-	-	80.93	31.54	12.14	29.68	246	313	A	H
		5411.56	53.59	-20.41	74	38.96	31.55	12.8	29.72	246	313	P	H
		5398.12	44.56	-9.44	54	30	31.49	12.78	29.71	246	313	A	H
		5138.84	59.79	-14.21	74	45.62	31.82	12.02	29.67	246	221	P	V
		5147.68	47.61	-6.39	54	33.45	31.8	12.03	29.67	246	221	A	V
	*	5210	99.25	-	-	85.25	31.54	12.14	29.68	246	221	P	V
	*	5210	90.15	-	-	76.15	31.54	12.14	29.68	246	221	A	V
		5435.36	52.93	-21.07	74	38.2	31.64	12.81	29.72	246	221	P	V
		5432.56	43.6	-10.4	54	28.89	31.63	12.8	29.72	246	221	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. 4+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		10420	51.3	-16.9	68.2	54.71	39.72	18.91	62.04	-	-	P	H
		10938	52.81	-21.19	74	54.9	40.4	19	61.49	-	-	P	H
		10938	41.05	-12.95	54	43.14	40.4	19	61.49	-	-	A	H
		14480	52.84	-21.16	74	49.92	42	21.74	60.82	-	-	P	H
		14480	43.18	-10.82	54	40.26	42	21.74	60.82	-	-	A	H
		15630	47.73	-26.27	74	47.76	37.64	22.72	60.39	-	-	P	H
		17989	61.81	-12.19	74	44.19	48.95	25.48	56.81	-	-	P	H
		17989	47.73	-6.27	54	30.11	48.95	25.48	56.81	-	-	A	H
													H
													H
													H
													H
		10420	51.43	-16.77	68.2	54.84	39.72	18.91	62.04	-	-	P	V
		10674	52.98	-21.02	74	56.04	39.85	18.95	61.86	-	-	P	V
		10674	40.5	-13.5	54	43.56	39.85	18.95	61.86	-	-	A	V
		14471	54.62	-19.38	74	51.72	42	21.73	60.83	-	-	P	V
		14471	43.05	-10.95	54	40.15	42	21.73	60.83	-	-	A	V
		15630	47.5	-26.5	74	47.53	37.64	22.72	60.39	-	-	P	V
		17978	62.55	-11.45	74	45.22	48.69	25.47	56.83	-	-	P	V
		17978	47.55	-6.45	54	30.22	48.69	25.47	56.83	-	-	A	V
													V
													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 802.11ax HE160 Full (Band Edge @ 3m)

WIFI Ant. 4+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)
802.11ax HE160 Full CH 50 5250MHz		5133.62	54.53	-19.47	74	40.36	31.83	12.01	29.67	202	297	P	H
		5147.9	45.31	-8.69	54	31.15	31.8	12.03	29.67	202	297	A	H
	*	5250	98.41	-	-	84.52	31.3	12.28	29.69	202	297	P	H
	*	5250	88.98	-	-	75.09	31.3	12.28	29.69	202	297	A	H
		5392.56	60.25	-13.75	74	45.74	31.46	12.76	29.71	202	297	P	H
		5386.32	51.77	-2.23	54	37.32	31.42	12.74	29.71	202	297	A	H
		5116.62	53.33	-20.67	74	39.15	31.87	11.98	29.67	154	207	P	V
		5121.38	43.96	-10.04	54	29.78	31.86	11.99	29.67	154	207	A	V
	*	5250	95.07	-	-	81.18	31.3	12.28	29.69	154	207	P	V
	*	5250	85.8	-	-	71.91	31.3	12.28	29.69	154	207	A	V
		5386.32	56.48	-17.52	74	42.03	31.42	12.74	29.71	154	207	P	V
		5373.6	47.5	-6.5	54	33.17	31.34	12.7	29.71	154	207	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 4+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)
802.11ax HE160 Full CH 50 5250MHz		10500	51.97	-16.23	68.2	55.34	39.8	18.93	62.1	-	-	P	H
		10880	51.26	-22.74	74	53.5	40.34	18.99	61.57	-	-	P	H
		10880	41.56	-12.44	54	43.8	40.34	18.99	61.57	-	-	A	H
		14491	52.83	-21.17	74	49.89	42	21.75	60.81	-	-	P	H
		14491	42.11	-11.89	54	39.17	42	21.75	60.81	-	-	A	H
		15750	47.91	-26.09	74	48	37.3	22.81	60.2	-	-	P	H
		17978	61.47	-12.53	74	44.14	48.69	25.47	56.83	-	-	P	H
		17978	47.84	-6.16	54	30.51	48.69	25.47	56.83	-	-	A	H
													H
													H
													H
													H
		10500	51.07	-17.13	68.2	54.44	39.8	18.93	62.1	-	-	P	V
		10883	51.9	-22.1	74	54.12	40.35	18.99	61.56	-	-	P	V
		10883	41.6	-12.4	54	43.82	40.35	18.99	61.56	-	-	A	V
		14491	53.92	-20.08	74	50.98	42	21.75	60.81	-	-	P	V
		14491	42.34	-11.66	54	39.4	42	21.75	60.81	-	-	A	V
		15750	47.77	-26.23	74	47.86	37.3	22.81	60.2	-	-	P	V
		17967	62.01	-11.99	74	44.95	48.44	25.46	56.84	-	-	P	V
		17967	47.68	-6.32	54	30.62	48.44	25.46	56.84	-	-	A	V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 4+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		5142.8	57.12	-16.88	74	42.96	31.81	12.02	29.67	242	308	P	H
		5136.34	43.64	-10.36	54	29.47	31.83	12.01	29.67	242	308	A	H
	*	5260	113.09	-	-	99.15	31.32	12.31	29.69	242	308	P	H
	*	5260	105.43	-	-	91.49	31.32	12.31	29.69	242	308	A	H
		5371.92	56.94	-17.06	74	42.63	31.33	12.69	29.71	242	308	P	H
		5437.68	43.65	-10.35	54	28.91	31.65	12.81	29.72	242	308	A	H
		5002.04	53.29	-20.71	74	39.54	31.6	11.8	29.65	316	217	P	V
		5124.78	43.2	-10.8	54	29.03	31.85	11.99	29.67	316	217	P	V
	*	5260	108.03	-	-	94.09	31.32	12.31	29.69	316	217	P	V
	*	5260	100.59	-	-	86.65	31.32	12.31	29.69	316	217	A	V
		5385.36	54.55	-19.45	74	40.11	31.41	12.74	29.71	316	217	P	V
		5453.76	43.32	-10.68	54	28.53	31.7	12.81	29.72	316	217	A	V
802.11a CH 60 5300MHz		5088.06	52.96	-21.04	74	38.83	31.85	11.94	29.66	197	306	P	H
		5098.94	42.27	-11.73	54	28.09	31.9	11.95	29.67	197	306	A	H
	*	5300	109.06	-	-	94.91	31.4	12.45	29.7	197	306	P	H
	*	5300	101.86	-	-	87.71	31.4	12.45	29.7	197	306	A	H
		5353.44	59.12	-14.88	74	44.98	31.22	12.63	29.71	197	306	P	H
		5443.2	41.92	-12.08	54	27.16	31.67	12.81	29.72	197	306	A	H
		5060.86	53.41	-20.59	74	39.44	31.74	11.89	29.66	319	229	P	V
		5115.6	41.84	-12.16	54	27.66	31.87	11.98	29.67	319	229	A	V
	*	5300	104.5	-	-	90.35	31.4	12.45	29.7	319	229	P	V
	*	5300	97.83	-	-	83.68	31.4	12.45	29.7	319	229	A	V
		5350.56	56.55	-17.45	74	42.44	31.2	12.62	29.71	319	229	P	V
		5444.16	41.18	-12.82	54	26.41	31.68	12.81	29.72	319	229	A	V

WIFI Ant. 4+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 64 5320MHz	*	5320	111.25	-	-	97.11	31.32	12.52	29.7	190	310	P	H
	*	5320	103.34	-	-	89.2	31.32	12.52	29.7	190	310	A	H
		5353.28	64.61	-9.39	74	50.47	31.22	12.63	29.71	190	310	P	H
		5351.68	46.33	-7.67	54	32.2	31.21	12.63	29.71	190	310	A	H
													H
													H
	*	5320	106.65	-	-	92.51	31.32	12.52	29.7	296	218	P	V
	*	5320	98.97	-	-	84.83	31.32	12.52	29.7	296	218	A	V
		5373.12	55.58	-18.42	74	41.25	31.34	12.7	29.71	296	218	P	V
		5455.04	42.96	-11.04	54	28.17	31.7	12.81	29.72	296	218	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. 4+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	57	-11.2	68.2	60.3	39.84	18.93	62.07	-	-	P	H
		10927	52.76	-21.24	74	54.87	40.4	18.99	61.5	-	-	P	H
		10927	41.31	-12.69	54	43.42	40.4	18.99	61.5	-	-	A	H
		14471	53.6	-20.4	74	50.7	42	21.73	60.83	-	-	P	H
		14471	43.31	-10.69	54	40.41	42	21.73	60.83	-	-	A	H
		15780	47.83	-26.17	74	47.97	37.18	22.83	60.15	-	-	P	H
		17989	62.83	-11.17	74	45.21	48.95	25.48	56.81	-	-	P	H
		17989	47.93	-6.07	54	30.31	48.95	25.48	56.81	-	-	A	H
													H
													H
													H
													H
		10520	53.43	-14.77	68.2	56.73	39.84	18.93	62.07	-	-	P	V
		10872	52.42	-21.58	74	54.7	40.32	18.98	61.58	-	-	P	V
		10872	41.28	-12.72	54	43.56	40.32	18.98	61.58	-	-	A	V
		14491	53.06	-20.94	74	50.12	42	21.75	60.81	-	-	P	V
		14491	43.37	-10.63	54	40.43	42	21.75	60.81	-	-	A	V
		15780	53.3	-20.7	74	53.44	37.18	22.83	60.15	192	347	P	V
		15780	41.99	-12.01	54	42.13	37.18	22.83	60.15	192	347	A	V
		17945	61.88	-12.12	74	45.36	47.94	25.45	56.87	-	-	P	V
		17945	47.41	-6.59	54	30.89	47.94	25.45	56.87	-	-	A	V
													V
													V
													V

WIFI Ant. 4+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)
i802.11a CH 60 5300MHz		10600	59.26	-14.74	74	62.27	40	18.95	61.96	305	303	P	H
		10600	50.61	-3.39	54	53.62	40	18.95	61.96	305	303	A	H
		10883	52.64	-21.36	74	54.86	40.35	18.99	61.56	-	-	P	H
		10883	42.4	-11.6	54	44.62	40.35	18.99	61.56	-	-	A	H
		14475	53.32	-20.68	74	50.41	42	21.74	60.83	-	-	P	H
		14475	43.47	-10.53	54	40.56	42	21.74	60.83	-	-	A	H
		15900	47.59	-26.41	74	47.75	36.9	22.9	59.96	-	-	P	H
		17978	62.47	-11.53	74	45.14	48.69	25.47	56.83	-	-	P	H
		17978	47.46	-6.54	54	30.13	48.69	25.47	56.83	-	-	A	H
													H
													H
													H
		10600	54.36	-19.64	74	57.37	40	18.95	61.96	263	328	P	V
		10600	45.01	-8.99	54	48.02	40	18.95	61.96	263	328	A	V
		10740	51.68	-22.32	74	54.55	39.92	18.97	61.76	-	-	P	V
		10740	41.75	-12.25	54	44.62	39.92	18.97	61.76	-	-	A	V
		14475	52.46	-21.54	74	49.55	42	21.74	60.83	-	-	P	V
		14475	43.17	-10.83	54	40.26	42	21.74	60.83	-	-	A	V
		15900	45.76	-28.24	74	45.92	36.9	22.9	59.96	-	-	P	V
		17978	61.37	-12.63	74	44.04	48.69	25.47	56.83	-	-	P	V
		17978	47.66	-6.34	54	30.33	48.69	25.47	56.83	-	-	A	V
													V
													V
													V

WIFI Ant. 4+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 64 5320MHz		10640	60.96	-13.04	74	63.99	39.92	18.95	61.9	304	301	P	H
		10640	50.91	-3.09	54	53.94	39.92	18.95	61.9	304	301	A	H
		11543	50.97	-23.03	74	52.37	39.97	19.26	60.63	-	-	P	H
		11543	43.19	-10.81	54	44.59	39.97	19.26	60.63	-	-	A	H
		14491	50.45	-23.55	74	47.51	42	21.75	60.81	-	-	P	H
		14491	43.9	-10.1	54	40.96	42	21.75	60.81	-	-	A	H
		15960	46.2	-27.8	74	46.03	37.08	22.95	59.86	-	-	P	H
		17934	59.25	-14.75	74	43	47.68	25.45	56.88	-	-	P	H
		17934	47.83	-6.17	54	31.58	47.68	25.45	56.88	-	-	A	H
													H
													H
													H
		10640	55.62	-18.38	74	58.65	39.92	18.95	61.9	200	329	P	V
		10640	45.65	-8.35	54	48.68	39.92	18.95	61.9	200	329	A	V
		10880	51.35	-22.65	74	53.59	40.34	18.99	61.57	-	-	P	V
		10880	41.61	-12.39	54	43.85	40.34	18.99	61.57	-	-	A	V
		14491	54.1	-19.9	74	51.16	42	21.75	60.81	-	-	P	V
		14491	42.85	-11.15	54	39.91	42	21.75	60.81	-	-	A	V
		15960	47.29	-26.71	74	47.12	37.08	22.95	59.86	-	-	P	V
		17989	62.14	-11.86	74	44.52	48.95	25.48	56.81	-	-	P	V
		17989	47.72	-6.28	54	30.1	48.95	25.48	56.81	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 2 5250~5350MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 4+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 52 5260MHz		5128.52	57.7	-16.3	74	43.53	31.84	12	29.67	246	308	P	H
		5135.32	43.64	-10.36	54	29.47	31.83	12.01	29.67	246	308	A	H
	*	5260	112.69	-	-	98.75	31.32	12.31	29.69	246	308	P	H
	*	5260	104.93	-	-	90.99	31.32	12.31	29.69	246	308	A	H
		5375.28	59.33	-14.67	74	44.98	31.35	12.71	29.71	246	308	P	H
		5422.32	43.7	-10.3	54	29.03	31.59	12.8	29.72	246	308	A	H
		5090.1	53.86	-20.14	74	39.72	31.86	11.94	29.66	189	215	P	V
		5147.56	42.8	-11.2	54	28.64	31.8	12.03	29.67	189	215	A	V
	*	5260	108.65	-	-	94.71	31.32	12.31	29.69	189	215	P	V
	*	5260	99.94	-	-	86	31.32	12.31	29.69	189	215	A	V
		5385.6	55.69	-18.31	74	41.25	31.41	12.74	29.71	189	215	P	V
		5448.24	42.77	-11.23	54	27.99	31.69	12.81	29.72	189	215	A	V
802.11n HT20 CH 60 5300MHz		5098.94	53.74	-20.26	74	39.56	31.9	11.95	29.67	192	310	P	H
		5126.14	42.91	-11.09	54	28.73	31.85	12	29.67	192	310	A	H
	*	5300	110.09	-	-	95.94	31.4	12.45	29.7	192	310	P	H
	*	5300	102.32	-	-	88.17	31.4	12.45	29.7	192	310	A	H
		5350.32	58.17	-15.83	74	44.06	31.2	12.62	29.71	192	310	P	H
		5351.28	43.4	-10.6	54	29.28	31.21	12.62	29.71	192	310	A	H
		5143.48	52.95	-21.05	74	38.79	31.81	12.02	29.67	279	211	P	V
		5109.48	42.44	-11.56	54	28.26	31.88	11.97	29.67	279	211	A	V
	*	5300	96.43	-	-	82.28	31.4	12.45	29.7	279	211	P	V
	*	5300	98.61	-	-	84.46	31.4	12.45	29.7	279	211	A	V
		5353.92	56.77	-17.23	74	42.63	31.22	12.63	29.71	279	211	P	V
		5448	43.01	-10.99	54	28.23	31.69	12.81	29.72	279	211	A	V

WIFI Ant. 4+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)
	*	5320	109.72	-	-	95.58	31.32	12.52	29.7	194	310	P	H
	*	5320	102.1	-	-	87.96	31.32	12.52	29.7	194	310	A	H
		5351.2	64.52	-9.48	74	50.4	31.21	12.62	29.71	194	310	P	H
		5350.4	47.61	-6.39	54	33.5	31.2	12.62	29.71	194	310	A	H
802.11n													H
HT20													H
CH 64	*	5320	106.59	-	-	92.45	31.32	12.52	29.7	170	215	P	V
5320MHz	*	5320	98.74	-	-	84.6	31.32	12.52	29.7	170	215	A	V
		5380.48	57.84	-16.16	74	43.45	31.38	12.72	29.71	170	215	P	V
		5351.68	44.41	-9.59	54	30.28	31.21	12.63	29.71	170	215	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. 4+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	56.09	-12.11	68.2	59.39	39.84	18.93	62.07	-	-	P	H
		10880	51.08	-22.92	74	53.32	40.34	18.99	61.57	-	-	P	H
		10880	41.78	-12.22	54	44.02	40.34	18.99	61.57	-	-	A	H
		14491	52.17	-21.83	74	49.23	42	21.75	60.81	-	-	P	H
		14491	42.3	-11.7	54	39.36	42	21.75	60.81	-	-	A	H
		15780	47.79	-26.21	74	47.93	37.18	22.83	60.15	-	-	P	H
		17978	62.41	-11.59	74	45.08	48.69	25.47	56.83	-	-	P	H
		17978	47.89	-6.11	54	30.56	48.69	25.47	56.83	-	-	A	H
													H
													H
802.11n													H
HT20													H
CH 52		10520	53.72	-14.48	68.2	57.02	39.84	18.93	62.07	-	-	P	V
5260MHz		10883	51.64	-22.36	74	53.86	40.35	18.99	61.56	-	-	P	V
		10883	41.53	-12.47	54	43.75	40.35	18.99	61.56	-	-	A	V
		14491	53.02	-20.98	74	50.08	42	21.75	60.81	-	-	P	V
		14491	42.05	-11.95	54	39.11	42	21.75	60.81	-	-	A	V
		15780	52	-22	74	52.14	37.18	22.83	60.15	194	357	P	V
		15780	42.15	-11.85	54	42.29	37.18	22.83	60.15	194	357	A	V
		17989	61.95	-12.05	74	44.33	48.95	25.48	56.81	-	-	P	V
		17989	47.92	-6.08	54	30.3	48.95	25.48	56.81	-	-	A	V
													V
													V
													V

WIFI Ant. 4+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)
		10600	60.58	-13.42	74	63.59	40	18.95	61.96	304	300	P	H
		10600	50.73	-3.27	54	53.74	40	18.95	61.96	304	300	A	H
		10880	51.17	-22.83	74	53.41	40.34	18.99	61.57	-	-	P	H
		10880	41.97	-12.03	54	44.21	40.34	18.99	61.57	-	-	A	H
		14491	52.68	-21.32	74	49.74	42	21.75	60.81	-	-	P	H
		14491	42.1	-11.9	54	39.16	42	21.75	60.81	-	-	A	H
		15900	47.82	-26.18	74	47.98	36.9	22.9	59.96	-	-	P	H
		17956	61.83	-12.17	74	45.03	48.19	25.46	56.85	-	-	P	H
		17956	47.66	-6.34	54	30.86	48.19	25.46	56.85	-	-	A	H
													H
802.11n													H
HT20													H
CH 60		10600	55.41	-18.59	74	58.42	40	18.95	61.96	218	328	P	V
5300MHz		10600	44.87	-9.13	54	47.88	40	18.95	61.96	218	328	A	V
		10883	52.52	-21.48	74	54.74	40.35	18.99	61.56	-	-	P	V
		10883	41.98	-12.02	54	44.2	40.35	18.99	61.56	-	-	A	V
		14491	53.08	-20.92	74	50.14	42	21.75	60.81	-	-	P	V
		14491	42.48	-11.52	54	39.54	42	21.75	60.81	-	-	A	V
		15900	47.49	-26.51	74	47.65	36.9	22.9	59.96	-	-	P	V
		17956	61.91	-12.09	74	45.11	48.19	25.46	56.85	-	-	P	V
		17956	47.58	-6.42	54	30.78	48.19	25.46	56.85	-	-	A	V
													V
													V
													V

WIFI Ant. 4+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)
		10640	60.64	-13.36	74	63.67	39.92	18.95	61.9	304	301	P	H
		10640	50.96	-3.04	54	53.99	39.92	18.95	61.9	304	301	A	H
		11422	50.64	-23.36	74	52.06	40.1	19.2	60.72	-	-	P	H
		11422	43.31	-10.69	54	44.73	40.1	19.2	60.72	-	-	A	H
		14491	51.54	-22.46	74	48.6	42	21.75	60.81	-	-	P	H
		14491	47.54	-6.46	54	44.6	42	21.75	60.81	-	-	A	H
		15960	46.35	-27.65	74	46.18	37.08	22.95	59.86	-	-	P	H
		17967	59.9	-14.1	74	42.84	48.44	25.46	56.84	-	-	P	H
		17967	47.96	-6.04	54	30.9	48.44	25.46	56.84	-	-	A	H
													H
802.11n													H
HT20													H
CH 64		10640	54.97	-19.03	74	58	39.92	18.95	61.9	268	330	P	V
5320MHz		10640	45.3	-8.7	54	48.33	39.92	18.95	61.9	268	330	A	V
		10880	51.6	-22.4	74	53.84	40.34	18.99	61.57	-	-	P	V
		10880	42.56	-11.44	54	44.8	40.34	18.99	61.57	-	-	A	V
		14491	52.7	-21.3	74	49.76	42	21.75	60.81	-	-	P	V
		14491	42.66	-11.34	54	39.72	42	21.75	60.81	-	-	A	V
		15960	47.73	-26.27	74	47.56	37.08	22.95	59.86	-	-	P	V
		17945	61.61	-12.39	74	45.09	47.94	25.45	56.87	-	-	P	V
		17945	47.73	-6.27	54	31.21	47.94	25.45	56.87	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 4+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		5133.62	53.61	-20.39	74	39.44	31.83	12.01	29.67	243	308	P	H
		5133.96	43.55	-10.45	54	29.38	31.83	12.01	29.67	243	308	A	H
	*	5270	108.57	-	-	94.57	31.34	12.35	29.69	243	308	P	H
	*	5270	100.95	-	-	86.95	31.34	12.35	29.69	243	308	A	H
		5440.08	54.87	-19.13	74	40.12	31.66	12.81	29.72	243	308	P	H
		5350.56	44.83	-9.17	54	30.72	31.2	12.62	29.71	243	308	A	H
		5085	53.73	-20.27	74	39.62	31.84	11.93	29.66	175	216	P	V
		5148.92	42.85	-11.15	54	28.69	31.8	12.03	29.67	175	216	A	V
	*	5270	105.16	-	-	91.16	31.34	12.35	29.69	175	216	P	V
	*	5270	97.61	-	-	83.61	31.34	12.35	29.69	175	216	A	V
		5351.76	53.51	-20.49	74	39.38	31.21	12.63	29.71	175	216	P	V
		5350.8	43.19	-10.81	54	29.08	31.2	12.62	29.71	175	216	A	V
802.11n HT40 CH 62 5310MHz		5110.5	54.37	-19.63	74	40.17	31.9	11.97	29.67	203	301	P	H
		5147.9	43.38	-10.62	54	29.12	31.9	12.03	29.67	203	301	A	H
	*	5310	105.51	-	-	91.45	31.28	12.48	29.7	203	301	P	H
	*	5310	98.14	-	-	84.08	31.28	12.48	29.7	203	301	A	H
		5350.8	65.71	-8.29	74	51.6	31.2	12.62	29.71	203	301	P	H
		5350.32	51.41	-2.59	54	37.3	31.2	12.62	29.71	203	301	A	H
		5069.36	53.05	-20.95	74	39.02	31.78	11.91	29.66	165	216	P	V
		5146.2	42.94	-11.06	54	28.68	31.9	12.03	29.67	165	216	A	V
	*	5310	101.46	-	-	87.4	31.28	12.48	29.7	165	216	P	V
	*	5310	94.69	-	-	80.63	31.28	12.48	29.7	165	216	A	V
		5354.4	57.61	-16.39	74	43.47	31.22	12.63	29.71	165	216	P	V
		5351.52	47.76	-6.24	54	33.63	31.21	12.63	29.71	165	216	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. 4+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	56.56	-11.64	68.2	59.78	39.88	18.94	62.04	-	-	P	H
		10883	52.24	-21.76	74	54.46	40.35	18.99	61.56	-	-	P	H
		10883	41.94	-12.06	54	44.16	40.35	18.99	61.56	-	-	A	H
		14491	52.53	-21.47	74	49.59	42	21.75	60.81	-	-	P	H
		14491	42.79	-11.21	54	39.85	42	21.75	60.81	-	-	A	H
		15810	47.39	-26.61	74	47.56	37.08	22.85	60.1	-	-	P	H
		17945	61.66	-12.34	74	45.14	47.94	25.45	56.87	-	-	P	H
		17945	47.86	-6.14	54	31.34	47.94	25.45	56.87	-	-	A	H
													H
													H
802.11n													H
HT40													H
CH 54		10540	51.28	-16.92	68.2	54.5	39.88	18.94	62.04	-	-	P	V
5270MHz		10880	52.76	-21.24	74	55	40.34	18.99	61.57	-	-	P	V
		10880	41.78	-12.22	54	44.02	40.34	18.99	61.57	-	-	A	V
		14491	52.51	-21.49	74	49.57	42	21.75	60.81	-	-	P	V
		14491	41.88	-12.12	54	38.94	42	21.75	60.81	-	-	A	V
		15810	47.59	-26.41	74	47.76	37.08	22.85	60.1	-	-	P	V
		18000	61.77	-12.23	74	43.89	49.2	25.48	56.8	-	-	P	V
		18000	47.74	-6.26	54	29.86	49.2	25.48	56.8	-	-	A	V
													V
													V
													V
													V

WIFI Ant. 4+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)
		10620	55.45	-18.55	74	58.47	39.96	18.95	61.93	303	299	P	H
		10620	45.53	-8.47	54	48.55	39.96	18.95	61.93	303	299	A	H
		10883	51.1	-22.9	74	53.32	40.35	18.99	61.56	-	-	P	H
		10883	41.61	-12.39	54	43.83	40.35	18.99	61.56	-	-	A	H
		14491	52.19	-21.81	74	49.25	42	21.75	60.81	-	-	P	H
		14491	42.35	-11.65	54	39.41	42	21.75	60.81	-	-	A	H
		15930	47.76	-26.24	74	47.75	36.99	22.93	59.91	-	-	P	H
		17956	62.8	-11.2	74	46	48.19	25.46	56.85	-	-	P	H
		17956	47.89	-6.11	54	31.09	48.19	25.46	56.85	-	-	A	H
													H
802.11n													H
HT40													H
CH 62		10620	53.08	-20.92	74	56.1	39.96	18.95	61.93	256	329	P	V
5310MHz		10620	42.88	-11.12	54	45.9	39.96	18.95	61.93	256	329	A	V
		10880	51.16	-22.84	74	53.4	40.34	18.99	61.57	-	-	P	V
		10880	41.6	-12.4	54	43.84	40.34	18.99	61.57	-	-	A	V
		14491	52.91	-21.09	74	49.97	42	21.75	60.81	-	-	P	V
		14491	41.61	-12.39	54	38.67	42	21.75	60.81	-	-	A	V
		15930	47.81	-26.19	74	47.8	36.99	22.93	59.91	-	-	P	V
		17956	62.31	-11.69	74	45.51	48.19	25.46	56.85	-	-	P	V
		17956	47.68	-6.32	54	30.88	48.19	25.46	56.85	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 4+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		5149.94	53.18	-20.82	74	39.02	31.8	12.03	29.67	250	310	P	H
		5128.52	44.31	-9.69	54	30.14	31.84	12	29.67	250	310	A	H
	*	5290	102.71	-	-	88.61	31.38	12.42	29.7	250	310	P	H
	*	5290	94.56	-	-	80.46	31.38	12.42	29.7	250	310	A	H
		5352.48	60.37	-13.63	74	46.24	31.21	12.63	29.71	250	310	P	H
		5351.28	51.63	-2.37	54	37.51	31.21	12.62	29.71	250	310	A	H
		5120.36	52.85	-21.15	74	38.67	31.86	11.99	29.67	188	212	P	V
		5147.22	43.61	-10.39	54	29.44	31.81	12.03	29.67	188	212	A	V
	*	5290	99.29	-	-	85.19	31.38	12.42	29.7	188	212	P	V
	*	5290	90.4	-	-	76.3	31.38	12.42	29.7	188	212	A	V
		5352.24	57.13	-16.87	74	43	31.21	12.63	29.71	188	212	P	V
		5350.32	47.54	-6.46	54	33.43	31.2	12.62	29.71	188	212	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. 4+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	51.39	-16.81	68.2	54.48	39.96	18.94	61.99	-	-	P	H
		10880	51.49	-22.51	74	53.73	40.34	18.99	61.57	-	-	P	H
		10880	41.54	-12.46	54	43.78	40.34	18.99	61.57	-	-	A	H
		14491	52.76	-21.24	74	49.82	42	21.75	60.81	-	-	P	H
		14491	42.26	-11.74	54	39.32	42	21.75	60.81	-	-	A	H
		15870	47.89	-26.11	74	48.05	36.96	22.89	60.01	-	-	P	H
		18000	61.59	-12.41	74	43.71	49.2	25.48	56.8	-	-	P	H
		18000	47.82	-6.18	54	29.94	49.2	25.48	56.8	-	-	A	H
													H
													H
802.11ac													H
VHT80													H
CH 58		10580	51.99	-16.21	68.2	55.08	39.96	18.94	61.99	-	-	P	V
5290MHz		10880	52.28	-21.72	74	54.52	40.34	18.99	61.57	-	-	P	V
		10880	41.88	-12.12	54	44.12	40.34	18.99	61.57	-	-	A	V
		14491	52.58	-21.42	74	49.64	42	21.75	60.81	-	-	P	V
		14491	42.45	-11.55	54	39.51	42	21.75	60.81	-	-	A	V
		15866	47.79	-26.21	74	47.95	36.97	22.88	60.01	-	-	P	V
		17956	61.92	-12.08	74	45.12	48.19	25.46	56.85	-	-	P	V
		17956	47.55	-6.45	54	30.75	48.19	25.46	56.85	-	-	A	V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 4+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		5458.64	64.13	-9.87	74	49.33	31.7	12.82	29.72	171	228	P	H
		5467.44	66.29	-1.51	68.2	51.49	31.7	12.82	29.72	171	228	P	H
		5460	46.36	-7.64	54	31.56	31.7	12.82	29.72	171	228	A	H
	*	5500	113	-	-	98.19	31.7	12.84	29.73	171	228	P	H
	*	5500	105.11	-	-	90.3	31.7	12.84	29.73	171	228	A	H
													H
		5457.84	60.24	-13.76	74	45.44	31.7	12.82	29.72	150	214	P	V
		5469.04	61.61	-6.59	68.2	46.82	31.7	12.82	29.73	150	214	P	V
		5459.28	44.27	-9.73	54	29.47	31.7	12.82	29.72	150	214	A	V
	*	5500	108.73	-	-	93.92	31.7	12.84	29.73	150	214	P	V
	*	5500	101.35	-	-	86.54	31.7	12.84	29.73	150	214	A	V
													V
802.11a CH 116 5580MHz		5411.92	56.05	-17.95	74	41.42	31.55	12.8	29.72	144	228	P	H
		5463.52	54.13	-14.07	68.2	39.33	31.7	12.82	29.72	144	228	P	H
		5447.2	43.68	-10.32	54	28.9	31.69	12.81	29.72	144	228	A	H
	*	5580	113.27	-	-	98.36	31.8	12.87	29.76	144	228	P	H
	*	5580	105.44	-	-	90.53	31.8	12.87	29.76	144	228	A	H
		5734.445	58.82	-9.38	68.2	43.75	31.94	12.95	29.82	144	228	P	H
		5445.28	53.72	-20.28	74	38.95	31.68	12.81	29.72	178	214	P	V
		5465.68	53.07	-15.13	68.2	38.27	31.7	12.82	29.72	178	214	P	V
		5438.08	43.05	-10.95	54	28.31	31.65	12.81	29.72	178	214	A	V
	*	5580	107.57	-	-	92.66	31.8	12.87	29.76	178	214	P	V
	*	5580	100.03	-	-	85.12	31.8	12.87	29.76	178	214	A	V
		5743.895	54.21	-13.99	68.2	39.09	31.98	12.96	29.82	178	214	P	V

WIFI Ant. 4+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 140 5700MHz	*	5700	113.03	-	-	98.11	31.8	12.93	29.81	178	236	P	H
	*	5700	104.72	-	-	89.8	31.8	12.93	29.81	178	236	A	H
		5725.08	65.94	-2.26	68.2	50.91	31.9	12.95	29.82	178	236	P	H
													H
													H
													H
	*	5700	105.73	-	-	90.81	31.8	12.93	29.81	141	203	P	V
	*	5700	97.94	-	-	83.02	31.8	12.93	29.81	141	203	A	V
		5728.36	58.31	-9.89	68.2	43.27	31.91	12.95	29.82	141	203	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 4+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		10883	51.89	-22.11	74	54.11	40.35	18.99	61.56	-	-	P	H
		10883	40.99	-13.01	54	43.21	40.35	18.99	61.56	-	-	A	H
		11000	54.8	-19.2	74	56.79	40.4	19.01	61.4	278	284	P	H
		11000	45.46	-8.54	54	47.45	40.4	19.01	61.4	278	284	A	H
		14491	54.11	-19.89	74	51.17	42	21.75	60.81	-	-	P	H
		14491	42.29	-11.71	54	39.35	42	21.75	60.81	-	-	A	H
		16500	51.07	-17.13	68.2	47.69	39	23.98	59.6	-	-	P	H
		17989	62.57	-11.43	74	44.95	48.95	25.48	56.81	-	-	P	H
		17989	47.73	-6.27	54	30.11	48.95	25.48	56.81	-	-	A	H
													H
													H
													H
		10880	51.53	-22.47	74	53.77	40.34	18.99	61.57	-	-	P	V
		10880	41.87	-12.13	54	44.11	40.34	18.99	61.57	-	-	A	V
		11000	53.22	-20.78	74	55.21	40.4	19.01	61.4	258	331	P	V
		11000	42.92	-11.08	54	44.91	40.4	19.01	61.4	258	331	A	V
		14491	52.75	-21.25	74	49.81	42	21.75	60.81	-	-	P	V
		14491	41.97	-12.03	54	39.03	42	21.75	60.81	-	-	A	V
		16500	50.94	-17.26	68.2	47.56	39	23.98	59.6	-	-	P	V
		17978	61.71	-12.29	74	44.38	48.69	25.47	56.83	-	-	P	V
		17978	47.68	-6.32	54	30.35	48.69	25.47	56.83	-	-	A	V
													V
													V
													V

WIFI Ant. 4+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 116 5580MHz		10883	52.1	-21.9	74	54.32	40.35	18.99	61.56	-	-	P	H
		10883	42.03	-11.97	54	44.25	40.35	18.99	61.56	-	-	A	H
		11160	52.94	-21.06	74	55.11	39.88	19.09	61.14	293	328	P	H
		11160	43.45	-10.55	54	45.62	39.88	19.09	61.14	293	328	A	H
		14491	53.02	-20.98	74	50.08	42	21.75	60.81	-	-	P	H
		14491	41.9	-12.1	54	38.96	42	21.75	60.81	-	-	A	H
		16740	53.83	-14.37	68.2	48.82	39.96	24.46	59.41	-	-	P	H
		17956	61.89	-12.11	74	45.09	48.19	25.46	56.85	-	-	P	H
		17956	47.65	-6.35	54	30.85	48.19	25.46	56.85	-	-	A	H
													H
													H
													H
		10880	51.55	-22.45	74	53.79	40.34	18.99	61.57	-	-	P	V
		10880	41.56	-12.44	54	43.8	40.34	18.99	61.57	-	-	A	V
		11160	52.39	-21.61	74	54.56	39.88	19.09	61.14	353	333	P	V
		11160	42	-12	54	44.17	39.88	19.09	61.14	353	333	A	V
		14491	52.92	-21.08	74	49.98	42	21.75	60.81	-	-	P	V
		14491	42.12	-11.88	54	39.18	42	21.75	60.81	-	-	A	V
		16740	54.23	-13.97	68.2	49.22	39.96	24.46	59.41	-	-	P	V
		17978	62.21	-11.79	74	44.88	48.69	25.47	56.83	-	-	P	V
		17978	47.63	-6.37	54	30.3	48.69	25.47	56.83	-	-	A	V
													V
													V
													V

WIFI Ant. 4+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 140 5700MHz		10883	52.13	-21.87	74	54.35	40.35	18.99	61.56	-	-	P	H
		10883	42.72	-11.28	54	44.94	40.35	18.99	61.56	-	-	A	H
		11400	53.41	-20.59	74	54.88	40.1	19.19	60.76	289	322	P	H
		11400	42.96	-11.04	54	44.43	40.1	19.19	60.76	289	322	A	H
		14491	53.08	-20.92	74	50.14	42	21.75	60.81	-	-	P	H
		14491	42.2	-11.8	54	39.26	42	21.75	60.81	-	-	A	H
		17100	53.05	-15.15	68.2	46.26	40.6	25.03	58.84	-	-	P	H
		17956	61.96	-12.04	74	45.16	48.19	25.46	56.85	-	-	P	H
		17956	47.68	-6.32	54	30.88	48.19	25.46	56.85	-	-	A	H
													H
													H
													H
		10880	52.41	-21.59	74	54.65	40.34	18.99	61.57	-	-	P	V
		10880	41.74	-12.26	54	43.98	40.34	18.99	61.57	-	-	A	V
		11400	51.99	-22.01	74	53.46	40.1	19.19	60.76	213	331	P	V
		11400	41.98	-12.02	54	43.45	40.1	19.19	60.76	213	331	A	V
		14491	53.29	-20.71	74	50.35	42	21.75	60.81	-	-	P	V
		14491	42.59	-11.41	54	39.65	42	21.75	60.81	-	-	A	V
		17100	53.36	-14.84	68.2	46.57	40.6	25.03	58.84	-	-	P	V
		17956	62.53	-11.47	74	45.73	48.19	25.46	56.85	-	-	P	V
		17956	47.57	-6.43	54	30.77	48.19	25.46	56.85	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 4+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		5459.92	62.41	-11.59	74	47.61	31.7	12.82	29.72	177	226	P	H
		5467.6	65.64	-2.56	68.2	50.84	31.7	12.82	29.72	177	226	P	H
		5459.44	46.86	-7.14	54	32.06	31.7	12.82	29.72	177	226	A	H
	*	5500	112.02	-	-	97.21	31.7	12.84	29.73	177	226	P	H
	*	5500	104.35	-	-	89.54	31.7	12.84	29.73	177	226	A	H
													H
		5444.88	56.62	-17.38	74	41.85	31.68	12.81	29.72	150	214	P	V
		5469.2	60.06	-8.14	68.2	45.27	31.7	12.82	29.73	150	214	P	V
		5459.28	44.24	-9.76	54	29.44	31.7	12.82	29.72	150	214	A	V
	*	5500	107.34	-	-	92.53	31.7	12.84	29.73	150	214	P	V
	*	5500	100.15	-	-	85.34	31.7	12.84	29.73	150	214	A	V
													V
802.11n HT20 CH 116 5580MHz		5415.04	57.48	-16.52	74	42.84	31.56	12.8	29.72	149	229	P	H
		5460.16	55.04	-13.16	68.2	40.24	31.7	12.82	29.72	149	229	P	H
		5452	43.65	-10.35	54	28.86	31.7	12.81	29.72	149	229	A	H
	*	5580	112.4	-	-	97.49	31.8	12.87	29.76	149	229	P	H
	*	5580	104.77	-	-	89.86	31.8	12.87	29.76	149	229	A	H
		5732.87	59.47	-8.73	68.2	44.41	31.93	12.95	29.82	149	229	P	H
		5363.92	53.04	-20.96	74	38.8	31.28	12.67	29.71	162	214	P	V
		5464.48	53.01	-15.19	68.2	38.21	31.7	12.82	29.72	162	214	P	V
		5410.72	42.94	-11.06	54	28.33	31.54	12.79	29.72	162	214	A	V
	*	5580	106.74	-	-	91.83	31.8	12.87	29.76	162	214	P	V
	*	5580	99.4	-	-	84.49	31.8	12.87	29.76	162	214	A	V
		5727.515	53.75	-14.45	68.2	38.71	31.91	12.95	29.82	162	214	P	V

WIFI Ant. 4+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)
	*	5700	111.55	-	-	96.63	31.8	12.93	29.81	177	229	P	H
	*	5700	102.89	-	-	87.97	31.8	12.93	29.81	177	229	A	H
		5725.32	65.89	-2.31	68.2	50.86	31.9	12.95	29.82	177	229	P	H
													H
802.11n													H
HT20													H
CH 140	*	5700	102.69	-	-	87.77	31.8	12.93	29.81	140	214	P	V
5700MHz	*	5700	95.37	-	-	80.45	31.8	12.93	29.81	140	214	A	V
		5729.08	56.78	-11.42	68.2	41.73	31.92	12.95	29.82	140	214	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 4+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)
		10883	52.56	-21.44	74	54.78	40.35	18.99	61.56	-	-	P	H
		10883	42.05	-11.95	54	44.27	40.35	18.99	61.56	-	-	A	H
		11000	53.08	-20.92	74	55.07	40.4	19.01	61.4	284	315	P	H
		11000	43.38	-10.62	54	45.37	40.4	19.01	61.4	284	315	A	H
		14491	52.69	-21.31	74	49.75	42	21.75	60.81	-	-	P	H
		14491	42.68	-11.32	54	39.74	42	21.75	60.81	-	-	A	H
		16500	50.85	-17.35	68.2	47.47	39	23.98	59.6	-	-	P	H
		17978	62.07	-11.93	74	44.74	48.69	25.47	56.83	-	-	P	H
		17978	47.76	-6.24	54	30.43	48.69	25.47	56.83	-	-	A	H
													H
802.11n													H
HT20													H
CH 100		10880	52.31	-21.69	74	54.55	40.34	18.99	61.57	-	-	P	V
5500MHz		10880	41.89	-12.11	54	44.13	40.34	18.99	61.57	-	-	A	V
		11000	52.62	-21.38	74	54.61	40.4	19.01	61.4	289	330	P	V
		11000	42.59	-11.41	54	44.58	40.4	19.01	61.4	289	330	A	V
		14491	52.8	-21.2	74	49.86	42	21.75	60.81	-	-	P	V
		14491	42.82	-11.18	54	39.88	42	21.75	60.81	-	-	A	V
		16500	50.7	-17.5	68.2	47.32	39	23.98	59.6	-	-	P	V
		17967	62.11	-11.89	74	45.05	48.44	25.46	56.84	-	-	P	V
		17967	47.91	-6.09	54	30.85	48.44	25.46	56.84	-	-	A	V
													V
													V
													V

WIFI Ant. 4+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)
		10883	52.34	-21.66	74	54.56	40.35	18.99	61.56	-	-	P	H
		10883	41.64	-12.36	54	43.86	40.35	18.99	61.56	-	-	A	H
		11160	53.69	-20.31	74	55.86	39.88	19.09	61.14	292	302	P	H
		11160	44.12	-9.88	54	46.29	39.88	19.09	61.14	292	302	A	H
		14491	53.24	-20.76	74	50.3	42	21.75	60.81	-	-	P	H
		14491	42.87	-11.13	54	39.93	42	21.75	60.81	-	-	A	H
		16740	53.4	-14.8	68.2	48.39	39.96	24.46	59.41	-	-	P	H
		17978	62.27	-11.73	74	44.94	48.69	25.47	56.83	-	-	P	H
		17978	47.78	-6.22	54	30.45	48.69	25.47	56.83	-	-	A	H
													H
802.11n													H
HT20													H
CH 116		10880	51.9	-22.1	74	54.14	40.34	18.99	61.57	-	-	P	V
5580MHz		10880	41.65	-12.35	54	43.89	40.34	18.99	61.57	-	-	A	V
		11160	52.03	-21.97	74	54.2	39.88	19.09	61.14	250	327	P	V
		11160	42.32	-11.68	54	44.49	39.88	19.09	61.14	250	327	A	V
		14491	53.62	-20.38	74	50.68	42	21.75	60.81	-	-	P	V
		14491	42.85	-11.15	54	39.91	42	21.75	60.81	-	-	A	V
		16740	53.95	-14.25	68.2	48.94	39.96	24.46	59.41	-	-	P	V
		17989	62.24	-11.76	74	44.62	48.95	25.48	56.81	-	-	P	V
		17989	47.82	-6.18	54	30.2	48.95	25.48	56.81	-	-	A	V
													V
													V
													V

WIFI Ant. 4+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)
		10883	53.15	-20.85	74	55.37	40.35	18.99	61.56	-	-	P	H
		10883	41.91	-12.09	54	44.13	40.35	18.99	61.56	-	-	A	H
		11400	52.67	-21.33	74	54.14	40.1	19.19	60.76	229	348	P	H
		11400	42.37	-11.63	54	43.84	40.1	19.19	60.76	229	348	A	H
		14491	52.74	-21.26	74	49.8	42	21.75	60.81	-	-	P	H
		14491	42.72	-11.28	54	39.78	42	21.75	60.81	-	-	A	H
		17100	53.95	-14.25	68.2	47.16	40.6	25.03	58.84	-	-	P	H
		18000	62.86	-11.14	74	44.98	49.2	25.48	56.8	-	-	P	H
		18000	47.68	-6.32	54	29.8	49.2	25.48	56.8	-	-	A	H
													H
802.11n													H
HT20													H
CH 140		10880	52.22	-21.78	74	54.46	40.34	18.99	61.57	-	-	P	V
5700MHz		10880	41.64	-12.36	54	43.88	40.34	18.99	61.57	-	-	A	V
		11400	52.34	-21.66	74	53.81	40.1	19.19	60.76	325	328	P	V
		11400	41.94	-12.06	54	43.41	40.1	19.19	60.76	325	328	A	V
		14491	52.73	-21.27	74	49.79	42	21.75	60.81	-	-	P	V
		14491	42.63	-11.37	54	39.69	42	21.75	60.81	-	-	A	V
		17100	52.92	-15.28	68.2	46.13	40.6	25.03	58.84	-	-	P	V
		18000	63.41	-10.59	74	45.53	49.2	25.48	56.8	-	-	P	V
		18000	47.74	-6.26	54	29.86	49.2	25.48	56.8	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 3 - 5470~5725MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 4+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		5459.92	58.23	-15.77	74	43.43	31.7	12.82	29.72	150	221	P	H
		5469.76	65.98	-2.22	68.2	51.19	31.7	12.82	29.73	150	221	P	H
		5459.92	44.81	-9.19	54	30.01	31.7	12.82	29.72	150	221	A	H
	*	5510	104.55	-	-	89.72	31.72	12.84	29.73	150	221	P	H
	*	5510	97.19	-	-	82.36	31.72	12.84	29.73	150	221	A	H
		5751.77	54.43	-13.77	68.2	39.3	32	12.96	29.83	150	221	P	H
		5452.72	56.98	-17.02	74	42.19	31.7	12.81	29.72	150	209	P	V
		5466.88	55.48	-12.72	68.2	40.68	31.7	12.82	29.72	150	209	P	V
		5459.68	43.69	-10.31	54	28.89	31.7	12.82	29.72	150	209	A	V
	*	5510	101.43	-	-	86.6	31.72	12.84	29.73	150	209	P	V
	*	5510	94.39	-	-	79.56	31.72	12.84	29.73	150	209	A	V
		5732.87	53.89	-14.31	68.2	38.83	31.93	12.95	29.82	150	209	P	V
802.11n HT40 CH 110 5550MHz		5449.6	54.85	-19.15	74	40.06	31.7	12.81	29.72	150	227	P	H
		5467.84	56.23	-11.97	68.2	41.43	31.7	12.82	29.72	150	227	P	H
		5459.44	44.32	-9.68	54	29.52	31.7	12.82	29.72	150	227	A	H
	*	5550	108.51	-	-	93.6	31.8	12.86	29.75	150	227	P	H
	*	5550	100.08	-	-	85.17	31.8	12.86	29.75	150	227	A	H
		5759.96	55	-13.2	68.2	39.86	32	12.97	29.83	150	227	P	H
		5446.48	54.16	-19.84	74	39.38	31.69	12.81	29.72	148	208	P	V
		5464	53.15	-15.05	68.2	38.35	31.7	12.82	29.72	148	208	P	V
		5454.64	43.06	-10.94	54	28.27	31.7	12.81	29.72	148	208	A	V
	*	5550	103.71	-	-	88.8	31.8	12.86	29.75	148	208	P	V
	*	5550	95.51	-	-	80.6	31.8	12.86	29.75	148	208	A	V
		5760.275	53.35	-14.85	68.2	38.21	32	12.97	29.83	148	208	P	V

WIFI Ant. 4+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 134 5670MHz		5446.95	53.31	-20.69	74	38.53	31.69	12.81	29.72	161	231	P	H
		5460.6	53.37	-14.83	68.2	38.57	31.7	12.82	29.72	161	231	P	H
		5457.45	43.57	-10.43	54	28.77	31.7	12.82	29.72	161	231	A	H
	*	5670	109.76	-	-	94.89	31.74	12.92	29.79	161	231	P	H
	*	5670	101.89	-	-	87.02	31.74	12.92	29.79	161	231	A	H
		5725.1	64.61	-3.59	68.2	49.58	31.9	12.95	29.82	161	231	P	H
		5403.9	52.75	-21.25	74	38.15	31.52	12.79	29.71	150	201	P	V
		5468.65	51.89	-16.31	68.2	37.09	31.7	12.82	29.72	150	201	P	V
		5453.95	43.08	-10.92	54	28.29	31.7	12.81	29.72	150	201	A	V
	*	5670	102.41	-	-	87.54	31.74	12.92	29.79	150	201	P	V
	*	5670	94.97	-	-	80.1	31.74	12.92	29.79	150	201	A	V
		5734.375	57.39	-10.81	68.2	42.32	31.94	12.95	29.82	150	201	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. 4+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)
		10883	52.89	-21.11	74	55.11	40.35	18.99	61.56	-	-	P	H
		10883	41.8	-12.2	54	44.02	40.35	18.99	61.56	-	-	A	H
		11020	52.77	-21.23	74	54.8	40.32	19.02	61.37	230	283	P	H
		11020	42.64	-11.36	54	44.67	40.32	19.02	61.37	230	283	A	H
		14491	53	-21	74	50.06	42	21.75	60.81	-	-	P	H
		14491	42.89	-11.11	54	39.95	42	21.75	60.81	-	-	A	H
		16530	51.48	-16.72	68.2	48.08	38.94	24.04	59.58	-	-	P	H
		17945	62.13	-11.87	74	45.61	47.94	25.45	56.87	-	-	P	H
		17945	47.84	-6.16	54	31.32	47.94	25.45	56.87	-	-	A	H
													H
802.11n													H
HT40													H
CH 102		10880	51.97	-22.03	74	54.21	40.34	18.99	61.57	-	-	P	V
5510MHz		10880	41.67	-12.33	54	43.91	40.34	18.99	61.57	-	-	A	V
		11020	52.27	-21.73	74	54.3	40.32	19.02	61.37	234	319	P	V
		11020	42.27	-11.73	54	44.3	40.32	19.02	61.37	234	319	A	V
		14491	52.93	-21.07	74	49.99	42	21.75	60.81	-	-	P	V
		14491	42.74	-11.26	54	39.8	42	21.75	60.81	-	-	A	V
		16530	51.5	-16.7	68.2	48.1	38.94	24.04	59.58	-	-	P	V
		17967	62.48	-11.52	74	45.42	48.44	25.46	56.84	-	-	P	V
		17967	47.75	-6.25	54	30.69	48.44	25.46	56.84	-	-	A	V
													V
													V
													V

WIFI Ant. 4+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)
		10883	52.63	-21.37	74	54.85	40.35	18.99	61.56	-	-	P	H
		10883	41.84	-12.16	54	44.06	40.35	18.99	61.56	-	-	A	H
		11100	52.67	-21.33	74	54.85	40	19.06	61.24	300	355	P	H
		11100	42.76	-11.24	54	44.94	40	19.06	61.24	300	355	A	H
		14491	53.09	-20.91	74	50.15	42	21.75	60.81	-	-	P	H
		14491	43.2	-10.8	54	40.26	42	21.75	60.81	-	-	A	H
		16650	51.76	-16.44	68.2	47.66	39.3	24.28	59.48	-	-	P	H
		17967	62.36	-11.64	74	45.3	48.44	25.46	56.84	-	-	P	H
		17967	47.38	-6.62	54	30.32	48.44	25.46	56.84	-	-	A	H
													H
802.11n													H
HT40													H
CH 110		10883	52.38	-21.62	74	54.6	40.35	18.99	61.56	-	-	P	V
5550MHz		10883	41.7	-12.3	54	43.92	40.35	18.99	61.56	-	-	A	V
		11100	51.46	-22.54	74	53.64	40	19.06	61.24	100	288	P	V
		11100	42	-12	54	44.18	40	19.06	61.24	100	288	A	V
		14472	53.67	-20.33	74	50.77	42	21.73	60.83	-	-	P	V
		14472	43.38	-10.62	54	40.48	42	21.73	60.83	-	-	A	V
		16650	52.64	-15.56	68.2	48.54	39.3	24.28	59.48	-	-	P	V
		17978	62.41	-11.59	74	45.08	48.69	25.47	56.83	-	-	P	V
		17978	47.75	-6.25	54	30.42	48.69	25.47	56.83	-	-	A	V
													V
													V
													V

WIFI Ant. 4+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)
		10883	52.55	-21.45	74	54.77	40.35	18.99	61.56	-	-	P	H
		10883	41.91	-12.09	54	44.13	40.35	18.99	61.56	-	-	A	H
		11340	51.73	-22.27	74	53.45	39.98	19.16	60.86	300	355	P	H
		11340	41.51	-12.49	54	43.23	39.98	19.16	60.86	300	355	A	H
		14472	53.54	-20.46	74	50.64	42	21.73	60.83	-	-	P	H
		14472	43.31	-10.69	54	40.41	42	21.73	60.83	-	-	A	H
		17010	54.05	-14.15	68.2	47.71	40.51	24.99	59.16	-	-	P	H
		17956	61.71	-12.29	74	44.91	48.19	25.46	56.85	-	-	P	H
		17956	47.34	-6.66	54	30.54	48.19	25.46	56.85	-	-	A	H
													H
802.11n													H
HT40													H
CH 134		10883	52.28	-21.72	74	54.5	40.35	18.99	61.56	-	-	P	V
5670MHz		10883	41.74	-12.26	54	43.96	40.35	18.99	61.56	-	-	A	V
		11340	50.64	-23.36	74	52.36	39.98	19.16	60.86	100	288	P	V
		11340	41.55	-12.45	54	43.27	39.98	19.16	60.86	100	288	A	V
		14480	53.61	-20.39	74	50.69	42	21.74	60.82	-	-	P	V
		14480	43.28	-10.72	54	40.36	42	21.74	60.82	-	-	A	V
		17010	53.37	-14.83	68.2	47.03	40.51	24.99	59.16	-	-	P	V
		17989	61.97	-12.03	74	44.35	48.95	25.48	56.81	-	-	P	V
		17989	47.87	-6.13	54	30.25	48.95	25.48	56.81	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 3 - 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 4+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 106 5530MHz		5458	63.36	-10.64	74	48.56	31.7	12.82	29.72	170	223	P	H
		5460.16	64.63	-3.57	68.2	49.83	31.7	12.82	29.72	170	223	P	H
		5458.72	52.04	-1.96	54	37.24	31.7	12.82	29.72	170	223	A	H
	*	5530	102.72	-	-	87.85	31.76	12.85	29.74	170	223	P	H
	*	5530	94.92	-	-	80.05	31.76	12.85	29.74	170	223	A	H
		5725.31	54.68	-13.52	68.2	39.65	31.9	12.95	29.82	170	223	P	H
		5458.24	55.99	-18.01	74	41.19	31.7	12.82	29.72	150	210	P	V
		5468.56	59.8	-8.4	68.2	45	31.7	12.82	29.72	150	210	P	V
		5457.52	47.01	-6.99	54	32.21	31.7	12.82	29.72	150	210	A	V
	*	5530	98.85	-	-	83.98	31.76	12.85	29.74	150	210	P	V
	*	5530	90.62	-	-	75.75	31.76	12.85	29.74	150	210	A	V
		5748.62	53.85	-14.35	68.2	38.72	31.99	12.96	29.82	150	210	P	V
802.11ac VHT80 CH 122 5610MHz		5455.7	54.57	-19.43	74	39.77	31.7	12.82	29.72	157	232	P	H
		5469.7	55.27	-12.93	68.2	40.48	31.7	12.82	29.73	157	232	P	H
		5459.2	46.38	-7.62	54	31.58	31.7	12.82	29.72	157	232	A	H
	*	5610	105.87	-	-	90.97	31.78	12.89	29.77	157	232	P	H
	*	5610	97.85	-	-	82.95	31.78	12.89	29.77	157	232	A	H
		5734.2	58.23	-9.97	68.2	43.16	31.94	12.95	29.82	157	232	P	H
		5453.95	53.58	-20.42	74	38.79	31.7	12.81	29.72	159	207	P	V
		5470.05	53.86	-96.14	150	39.07	31.7	12.82	29.73	159	207	P	V
		5435.4	44.32	-9.68	54	29.59	31.64	12.81	29.72	159	207	A	V
	*	5610	100.76	-	-	85.86	31.78	12.89	29.77	159	207	P	V
	*	5610	91.18	-	-	76.28	31.78	12.89	29.77	159	207	A	V
		5732.975	54.49	-13.71	68.2	39.43	31.93	12.95	29.82	159	207	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. 4+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)
		10883	52.41	-21.59	74	54.63	40.35	18.99	61.56	-	-	P	H
		10883	41.99	-12.01	54	44.21	40.35	18.99	61.56	-	-	A	H
		11060	51.35	-22.65	74	53.45	40.16	19.04	61.3	300	350	P	H
		11060	40.7	-13.3	54	42.8	40.16	19.04	61.3	300	350	A	H
		14491	53.22	-20.78	74	50.28	42	21.75	60.81	-	-	P	H
		14491	43.2	-10.8	54	40.26	42	21.75	60.81	-	-	A	H
		16590	50.82	-17.38	68.2	47.37	38.82	24.16	59.53	-	-	P	H
		17967	61.84	-12.16	74	44.78	48.44	25.46	56.84	-	-	P	H
		17967	47.23	-6.77	54	30.17	48.44	25.46	56.84	-	-	A	H
													H
802.11ac													H
VHT80													H
CH 106		10883	53.14	-20.86	74	55.36	40.35	18.99	61.56	-	-	P	V
5530MHz		10883	41.74	-12.26	54	43.96	40.35	18.99	61.56	-	-	A	V
		11060	51.03	-22.97	74	53.13	40.16	19.04	61.3	100	280	P	V
		11060	40.77	-13.23	54	42.87	40.16	19.04	61.3	100	280	A	V
		14473	53.29	-20.71	74	50.39	42	21.73	60.83	-	-	P	V
		14473	43.38	-10.62	54	40.48	42	21.73	60.83	-	-	A	V
		16590	50.79	-17.41	68.2	47.34	38.82	24.16	59.53	-	-	P	V
		17989	62.22	-11.78	74	44.6	48.95	25.48	56.81	-	-	P	V
		17989	47.87	-6.13	54	30.25	48.95	25.48	56.81	-	-	A	V
													V
													V
													V

WIFI Ant. 4+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)
		10828	52.87	-21.13	74	55.35	40.18	18.98	61.64	-	-	P	H
		10828	41.85	-12.15	54	44.33	40.18	18.98	61.64	-	-	A	H
		11220	50.72	-23.28	74	52.84	39.82	19.11	61.05	300	350	P	H
		11220	40.98	-13.02	54	43.1	39.82	19.11	61.05	300	350	A	H
		14475	53.25	-20.75	74	50.34	42	21.74	60.83	-	-	P	H
		14475	43.45	-10.55	54	40.54	42	21.74	60.83	-	-	A	H
		16830	52.83	-15.37	68.2	47.35	40.17	24.65	59.34	-	-	P	H
		17956	61.76	-12.24	74	44.96	48.19	25.46	56.85	-	-	P	H
		17956	47.28	-6.72	54	30.48	48.19	25.46	56.85	-	-	A	H
													H
802.11ac													H
VHT80													H
CH 122		10861	52.56	-21.44	74	54.88	40.28	18.99	61.59	-	-	P	V
5610MHz		10861	42.11	-11.89	54	44.43	40.28	18.99	61.59	-	-	A	V
		11220	50.66	-23.34	74	52.78	39.82	19.11	61.05	100	278	P	V
		11220	40.45	-13.55	54	42.57	39.82	19.11	61.05	100	278	A	V
		14472	53.31	-20.69	74	50.41	42	21.73	60.83	-	-	P	V
		14472	43.64	-10.36	54	40.74	42	21.73	60.83	-	-	A	V
		16830	52.67	-15.53	68.2	47.19	40.17	24.65	59.34	-	-	P	V
		18000	62.7	-11.3	74	44.82	49.2	25.48	56.8	-	-	P	V
		18000	47.98	-6.02	54	30.1	49.2	25.48	56.8	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 3 5470~5725MHz

WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI Ant. 4+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)
802.11ax HE160 Full CH 114 5570MHz		5458	61.51	-12.49	74	46.71	31.7	12.82	29.72	169	223	P	H
		5468.32	61.5	-6.7	68.2	46.7	31.7	12.82	29.72	169	223	P	H
		5453.44	50.47	-3.53	54	35.68	31.7	12.81	29.72	169	223	P	H
	*	5570	100.86	-	-	85.95	31.8	12.87	29.76	169	223	P	H
	*	5570	90.78	-	-	75.87	31.8	12.87	29.76	169	223	A	H
		5725.94	60.83	-7.37	68.2	45.8	31.9	12.95	29.82	169	223	P	H
		5458	57.48	-16.52	74	42.68	31.7	12.82	29.72	150	208	P	V
		5463.04	57.95	-10.25	68.2	43.15	31.7	12.82	29.72	150	208	P	V
		5453.68	45.46	-8.54	54	30.67	31.7	12.81	29.72	150	208	A	V
	*	5570	95.22	-	-	80.31	31.8	12.87	29.76	150	208	P	V
	*	5570	86.25	-	-	71.34	31.8	12.87	29.76	150	208	A	V
		5754.29	54.79	-13.41	68.2	39.66	32	12.96	29.83	150	208	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 4+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)
		10916	52.77	-21.23	74	54.89	40.4	19	61.52	-	-	P	H
		10916	41.48	-12.52	54	43.6	40.4	19	61.52	-	-	A	H
		11140	51.11	-22.89	74	53.3	39.92	19.07	61.18	200	285	P	H
		11140	40.8	-13.2	54	42.99	39.92	19.07	61.18	200	285	A	H
		14491	53.63	-20.37	74	50.69	42	21.75	60.81	-	-	P	H
		14491	43.38	-10.62	54	40.44	42	21.75	60.81	-	-	A	H
		16710	52.25	-15.95	68.2	47.44	39.84	24.4	59.43	-	-	P	H
		18000	62.4	-11.6	74	44.52	49.2	25.48	56.8	-	-	P	H
		18000	47.77	-6.23	54	29.89	49.2	25.48	56.8	-	-	A	H
													H
802.11ax													H
HE160 Full													H
CH 114		10828	52.33	-21.67	74	54.81	40.18	18.98	61.64	-	-	P	V
5570MHz		10828	41.27	-12.73	54	43.75	40.18	18.98	61.64	-	-	A	V
		11140	51.16	-22.84	74	53.35	39.92	19.07	61.18	100	246	P	V
		11140	40.91	-13.09	54	43.1	39.92	19.07	61.18	100	246	A	V
		14471	52.96	-21.04	74	50.06	42	21.73	60.83	-	-	P	V
		14471	43.31	-10.69	54	40.41	42	21.73	60.83	-	-	A	V
		16710	53.59	-14.61	68.2	48.78	39.84	24.4	59.43	-	-	P	V
		17967	62.72	-11.28	74	45.66	48.44	25.46	56.84	-	-	P	V
		17967	47.38	-6.62	54	30.32	48.44	25.46	56.84	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 4+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		5457.64	53.47	-20.53	74	38.67	31.7	12.82	29.72	169	232	P	H
		5468.56	51.81	-16.39	68.2	37.01	31.7	12.82	29.72	169	232	P	H
		5443.6	43.02	-10.98	54	28.26	31.67	12.81	29.72	169	232	A	H
	*	5720	115.82	-	-	100.8	31.88	12.95	29.81	169	232	P	H
	*	5720	107.4	-	-	92.38	31.88	12.95	29.81	169	232	A	H
		5880.75	59.19	-9.01	68.2	44.13	32.2	12.73	29.87	169	232	P	H
		5456.08	53.52	-20.48	74	38.72	31.7	12.82	29.72	152	210	P	V
		5470.12	53.04	-96.96	150	38.25	31.7	12.82	29.73	152	210	P	V
		5454.91	42.55	-11.45	54	27.76	31.7	12.81	29.72	152	210	A	V
	*	5720	107.37	-	-	92.35	31.88	12.95	29.81	152	210	P	V
	*	5720	100.04	-	-	85.02	31.88	12.95	29.81	152	210	A	V
		5881	54.08	-14.12	68.2	39.02	32.2	12.73	29.87	152	210	P	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. 4+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		10880	52.07	-21.93	74	54.31	40.34	18.99	61.57	-	-	P	H
		10880	41.88	-12.12	54	44.12	40.34	18.99	61.57	-	-	A	H
		11440	53.51	-20.49	74	54.9	40.1	19.21	60.7	313	346	P	H
		11440	43.87	-10.13	54	45.26	40.1	19.21	60.7	313	346	A	H
		14491	52.9	-21.1	74	49.96	42	21.75	60.81	-	-	P	H
		14491	42.8	-11.2	54	39.86	42	21.75	60.81	-	-	A	H
		17160	54.17	-14.03	68.2	47.25	40.48	25.06	58.62	-	-	P	H
		17967	62.56	-11.44	74	45.5	48.44	25.46	56.84	-	-	P	H
		17967	47.65	-6.35	54	30.59	48.44	25.46	56.84	-	-	A	H
													H
													H
													H
		10883	51.5	-22.5	74	53.72	40.35	18.99	61.56	-	-	P	V
		10883	41.58	-12.42	54	43.8	40.35	18.99	61.56	-	-	A	V
		11440	52.79	-21.21	74	54.18	40.1	19.21	60.7	254	331	P	V
		11440	42.55	-11.45	54	43.94	40.1	19.21	60.7	254	331	A	V
		14491	52.71	-21.29	74	49.77	42	21.75	60.81	-	-	P	V
		14491	42.61	-11.39	54	39.67	42	21.75	60.81	-	-	A	V
		17160	54.91	-13.29	68.2	47.99	40.48	25.06	58.62	-	-	P	V
		17967	62.25	-11.75	74	45.19	48.44	25.46	56.84	-	-	P	V
		17967	47.62	-6.38	54	30.56	48.44	25.46	56.84	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 4+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 144 5720MHz		5448.28	53.83	-20.17	74	39.05	31.69	12.81	29.72	174	230	P	H
		5465.05	53.51	-14.69	68.2	38.71	31.7	12.82	29.72	174	230	P	H
		5459.2	42.81	-11.19	54	28.01	31.7	12.82	29.72	174	230	A	H
	*	5720	114.45	-	-	99.43	31.88	12.95	29.81	174	230	P	H
	*	5720	106.67	-	-	91.65	31.88	12.95	29.81	174	230	A	H
		5877.5	59.06	-9.14	68.2	43.99	32.2	12.74	29.87	174	230	P	H
		5389	52.98	-21.02	74	38.51	31.43	12.75	29.71	150	205	P	V
		5468.17	52.63	-15.57	68.2	37.83	31.7	12.82	29.72	150	205	P	V
		5420.2	42.45	-11.55	54	27.79	31.58	12.8	29.72	150	205	A	V
	*	5720	106.27	-	-	91.25	31.88	12.95	29.81	150	205	P	V
	*	5720	98.95	-	-	83.93	31.88	12.95	29.81	150	205	A	V
		5923.25	54.05	-14.15	68.2	39.01	32.34	12.59	29.89	150	205	P	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. 4+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)
		10883	52.45	-21.55	74	54.67	40.35	18.99	61.56	-	-	P	H
		10883	41.62	-12.38	54	43.84	40.35	18.99	61.56	-	-	A	H
		11440	54.19	-19.81	74	55.58	40.1	19.21	60.7	287	300	P	H
		11440	44.99	-9.01	54	46.38	40.1	19.21	60.7	287	300	A	H
		14491	52.83	-21.17	74	49.89	42	21.75	60.81	-	-	P	H
		14491	42.8	-11.2	54	39.86	42	21.75	60.81	-	-	A	H
		17160	54.45	-13.75	68.2	47.53	40.48	25.06	58.62	-	-	P	H
		18000	62.46	-11.54	74	44.58	49.2	25.48	56.8	-	-	P	H
		18000	47.85	-6.15	54	29.97	49.2	25.48	56.8	-	-	A	H
													H
802.11n													H
HT20													H
CH 144		10880	51.95	-22.05	74	54.19	40.34	18.99	61.57	-	-	P	V
5720MHz		10880	41.66	-12.34	54	43.9	40.34	18.99	61.57	-	-	A	V
		11440	52.42	-21.58	74	53.81	40.1	19.21	60.7	290	328	P	V
		11440	42.52	-11.48	54	43.91	40.1	19.21	60.7	290	328	A	V
		14491	53.13	-20.87	74	50.19	42	21.75	60.81	-	-	P	V
		14491	42.89	-11.11	54	39.95	42	21.75	60.81	-	-	A	V
		17160	57.02	-11.18	68.2	50.1	40.48	25.06	58.62	-	-	P	V
		17989	62.12	-11.88	74	44.5	48.95	25.48	56.81	-	-	P	V
		17989	47.77	-6.23	54	30.15	48.95	25.48	56.81	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 3 - Straddle Channel

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 4+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 142 5710MHz		5372.23	53.99	-20.01	74	39.67	31.33	12.7	29.71	160	229	P	H
		5468.56	52.59	-15.61	68.2	37.79	31.7	12.82	29.72	160	229	P	H
		5458.03	42.95	-11.05	54	28.15	31.7	12.82	29.72	160	229	A	H
	*	5710	109.97	-	-	95	31.84	12.94	29.81	160	229	P	H
	*	5710	102.01	-	-	87.04	31.84	12.94	29.81	160	229	A	H
		5854.5	55.04	-13.16	68.2	39.89	32.2	12.81	29.86	160	229	P	H
		5447.89	53.84	-20.16	74	39.06	31.69	12.81	29.72	148	207	P	V
		5467.78	53.32	-14.88	68.2	38.52	31.7	12.82	29.72	148	207	P	V
		5452.57	42.55	-11.45	54	27.76	31.7	12.81	29.72	148	207	A	V
	*	5710	102.12	-	-	87.15	31.84	12.94	29.81	148	207	P	V
	*	5710	94.63	-	-	79.66	31.84	12.94	29.81	148	207	A	V
		5920.75	53.93	-14.27	68.2	38.9	32.32	12.6	29.89	148	207	P	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. 4+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)
		10883	51.56	-22.44	74	53.78	40.35	18.99	61.56	-	-	P	H
		10883	41.93	-12.07	54	44.15	40.35	18.99	61.56	-	-	A	H
		11420	51.46	-22.54	74	52.89	40.1	19.2	60.73	300	345	P	H
		11420	42.08	-11.92	54	43.51	40.1	19.2	60.73	300	345	A	H
		14480	52.89	-21.11	74	49.97	42	21.74	60.82	-	-	P	H
		14480	43.44	-10.56	54	40.52	42	21.74	60.82	-	-	A	H
		17130	53.45	-14.75	68.2	46.59	40.54	25.05	58.73	-	-	P	H
		17978	62.48	-11.52	74	45.15	48.69	25.47	56.83	-	-	P	H
		17978	47.48	-6.52	54	30.15	48.69	25.47	56.83	-	-	A	H
													H
802.11n													H
HT40													H
CH 142		10883	53.47	-20.53	74	55.69	40.35	18.99	61.56	-	-	P	V
5710MHz		10883	41.66	-12.34	54	43.88	40.35	18.99	61.56	-	-	A	V
		11420	51.06	-22.94	74	52.49	40.1	19.2	60.73	100	288	P	V
		11420	41.45	-12.55	54	42.88	40.1	19.2	60.73	100	288	A	V
		14480	53.35	-20.65	74	50.43	42	21.74	60.82	-	-	P	V
		14480	43.1	-10.9	54	40.18	42	21.74	60.82	-	-	A	V
		17130	52.58	-15.62	68.2	45.72	40.54	25.05	58.73	-	-	P	V
		17956	62.57	-11.43	74	45.77	48.19	25.46	56.85	-	-	P	V
		17956	47.63	-6.37	54	30.83	48.19	25.46	56.85	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 4+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 138 5690MHz		5403.04	53.97	-20.03	74	39.38	31.51	12.79	29.71	163	231	P	H
		5462.32	54.18	-14.02	68.2	39.38	31.7	12.82	29.72	163	231	P	H
		5457.25	44.81	-9.19	54	30.01	31.7	12.82	29.72	163	231	A	H
	*	5690	106.72	-	-	91.81	31.78	12.93	29.8	163	231	P	H
	*	5690	98.81	-	-	83.9	31.78	12.93	29.8	163	231	A	H
		5876.5	54.86	-13.34	68.2	39.79	32.2	12.74	29.87	163	231	P	H
		5447.11	53.36	-20.64	74	38.58	31.69	12.81	29.72	150	206	P	V
		5462.32	52.62	-15.58	68.2	37.82	31.7	12.82	29.72	150	206	P	V
		5424.88	43.77	-10.23	54	29.09	31.6	12.8	29.72	150	206	A	V
	*	5690	100.14	-	-	85.23	31.78	12.93	29.8	150	206	P	V
	*	5690	91.05	-	-	76.14	31.78	12.93	29.8	150	206	A	V
		5875	53.9	-14.3	68.2	38.82	32.2	12.75	29.87	150	206	P	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. 4+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)
		10861	52.88	-21.12	74	55.2	40.28	18.99	61.59	-	-	P	H
		10861	41.12	-12.88	54	43.44	40.28	18.99	61.59	-	-	A	H
		11380	50.85	-23.15	74	52.4	40.06	19.18	60.79	200	346	P	H
		11380	41.15	-12.85	54	42.7	40.06	19.18	60.79	200	346	A	H
		14491	54.12	-19.88	74	51.18	42	21.75	60.81	-	-	P	H
		14491	43.6	-10.4	54	40.66	42	21.75	60.81	-	-	A	H
		17070	53.32	-14.88	68.2	46.68	40.57	25.02	58.95	-	-	P	H
		17989	62.14	-11.86	74	44.52	48.95	25.48	56.81	-	-	P	H
		17989	47.84	-6.16	54	30.22	48.95	25.48	56.81	-	-	A	H
													H
802.11ac													H
VHT80													H
CH 138		10916	52.59	-21.41	74	54.71	40.4	19	61.52	-	-	P	V
5690MHz		10916	41.62	-12.38	54	43.74	40.4	19	61.52	-	-	A	V
		11380	51.04	-22.96	74	52.59	40.06	19.18	60.79	103	298	P	V
		11380	41.12	-12.88	54	42.67	40.06	19.18	60.79	103	298	A	V
		14491	53.75	-20.25	74	50.81	42	21.75	60.81	-	-	P	V
		14491	43.45	-10.55	54	40.51	42	21.75	60.81	-	-	A	V
		17070	53.94	-14.26	68.2	47.3	40.57	25.02	58.95	-	-	P	V
		17989	61.95	-12.05	74	44.33	48.95	25.48	56.81	-	-	P	V
		17989	47.84	-6.16	54	30.22	48.95	25.48	56.81	-	-	A	V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

Emission below 1GHz

WIFI 802.11a (LF @ 3m)

WIFI Ant. 4+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)
		97.9	31.33	-12.17	43.5	46.28	15.56	1.79	32.3	-	-	P	H
		157.07	26.18	-17.32	43.5	39.36	16.78	2.29	32.25	-	-	P	H
		421.88	23.91	-22.09	46	29.78	22.92	3.62	32.41	-	-	P	H
		632.37	29.07	-16.93	46	30.9	26.28	4.42	32.53	-	-	P	H
		821.52	32.18	-13.82	46	31.06	28.21	5.03	32.12	-	-	P	H
		951.5	34.27	-11.73	46	29.4	30.6	5.46	31.19	-	-	P	H
													H
													H
													H
													H
													H
802.11a													H
LF		33.88	30.3	-9.7	40	38.94	22.77	0.9	32.31	-	-	P	V
		95.96	28.06	-15.44	43.5	43.19	15.41	1.77	32.31	-	-	P	V
		485.9	25.32	-20.68	46	30	23.78	3.91	32.37	-	-	P	V
		713.85	31.17	-14.83	46	32.08	26.83	4.64	32.38	-	-	P	V
		840.92	33.24	-12.76	46	31.15	28.99	5.1	32	-	-	P	V
		958.29	35.04	-10.96	46	29.87	30.83	5.47	31.13	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.

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.	
4+3		(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 Plots

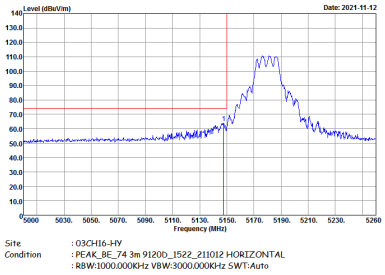
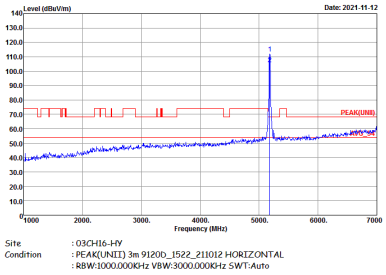
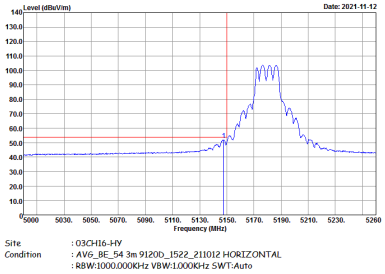
Test Engineer :	Karl Hou and Andy Yang	**Temperature :**	20~25°C
		Relative Humidity :	50~60%

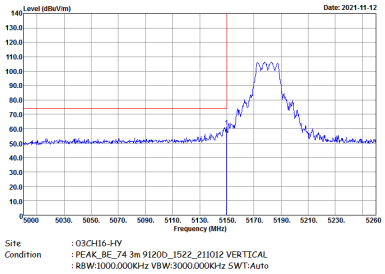
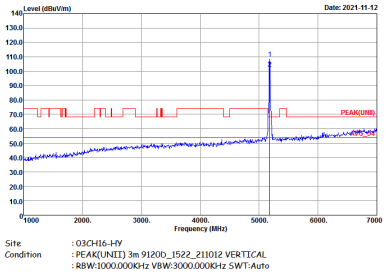
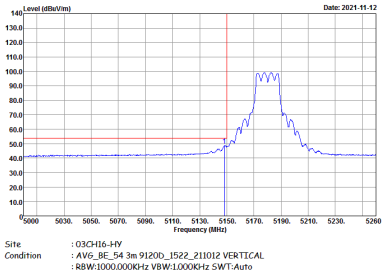
Note symbol

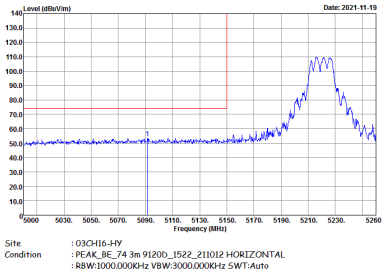
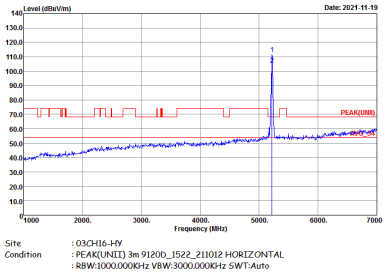
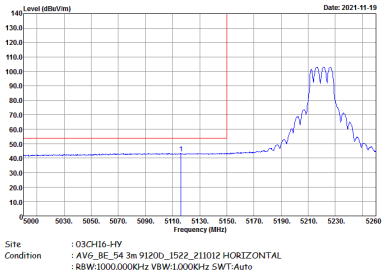
-L	**Low channel location**
-R	**High channel location**

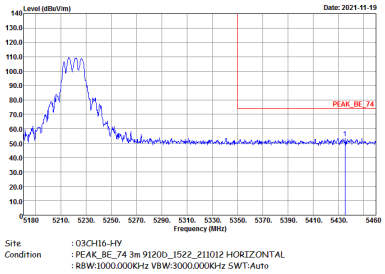
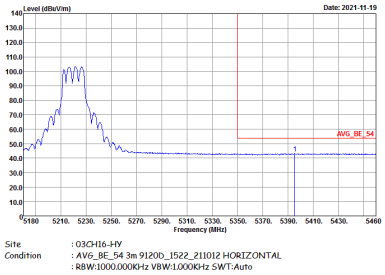
Band 1 - 5150~5250MHz

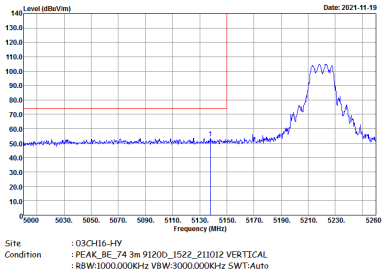
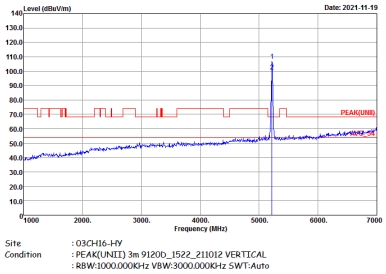
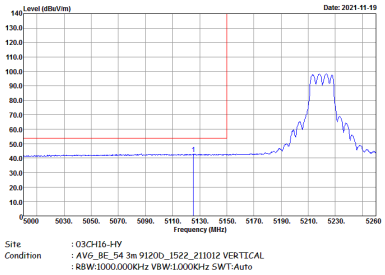
WIFI 802.11a (Band Edge @ 3m)

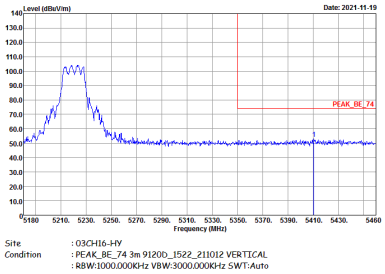
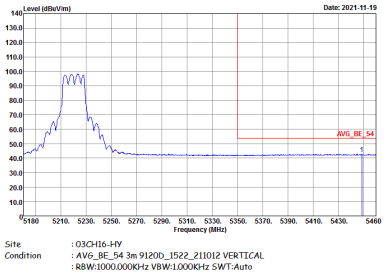
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

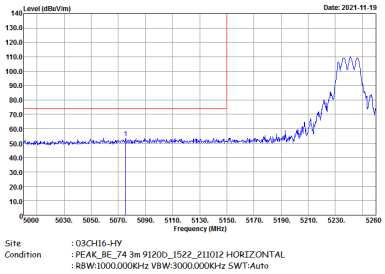
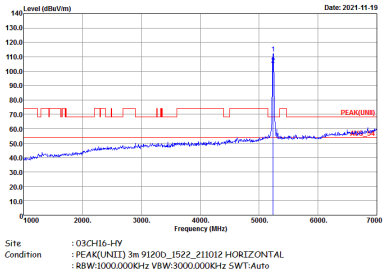
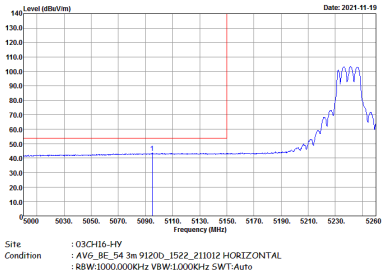
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

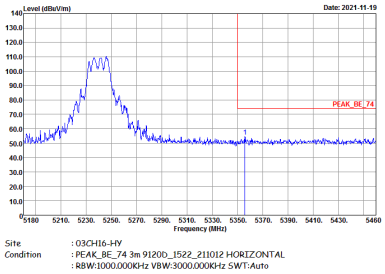
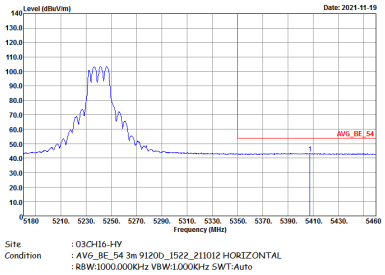
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

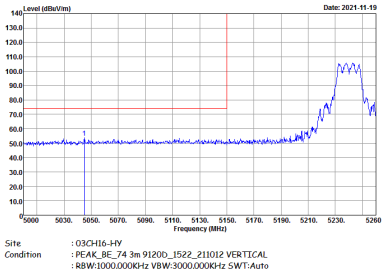
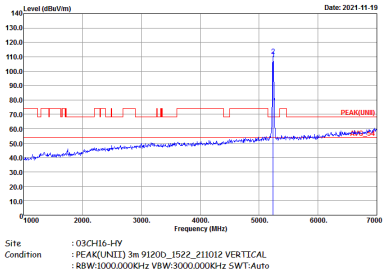
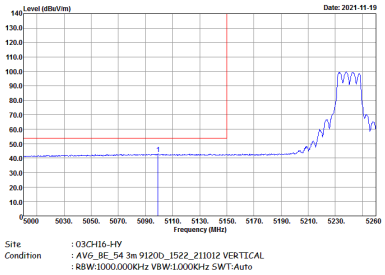
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

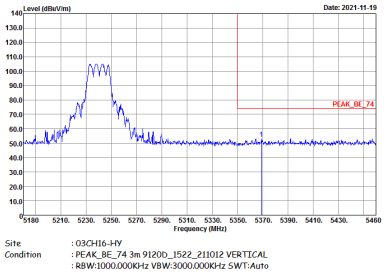
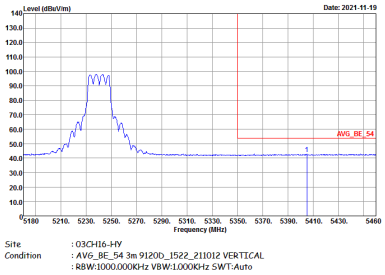
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

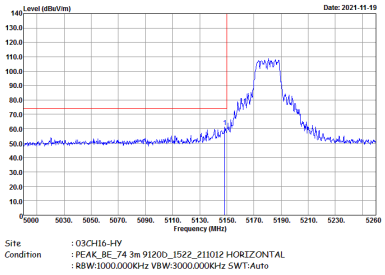
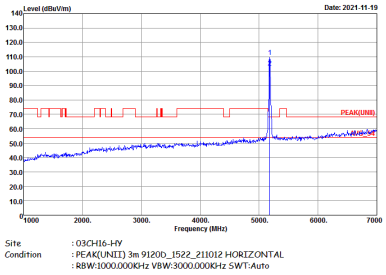
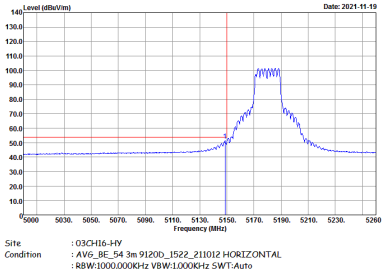
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

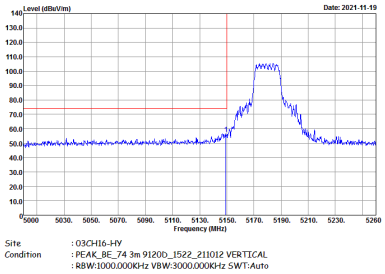
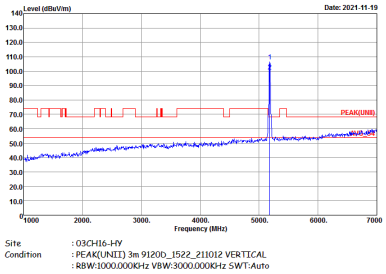
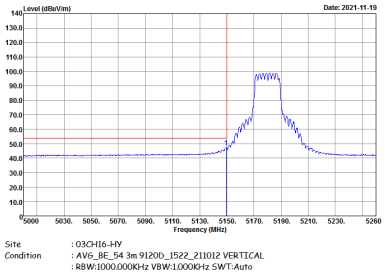
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

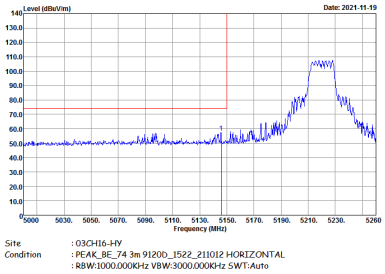
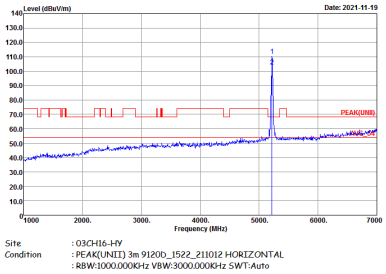
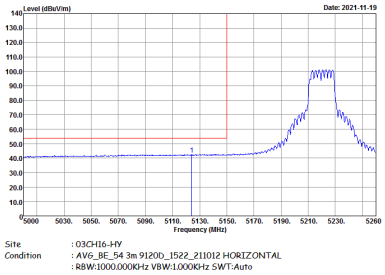
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

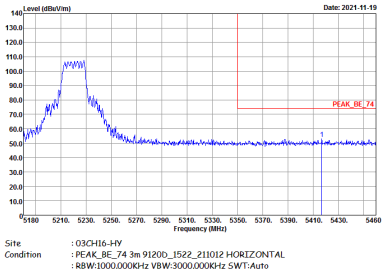
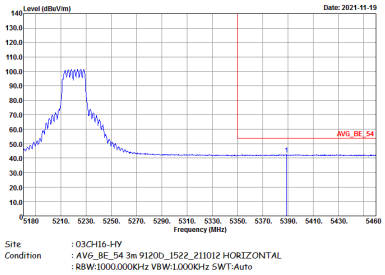
Band 1 5150~5250MHz

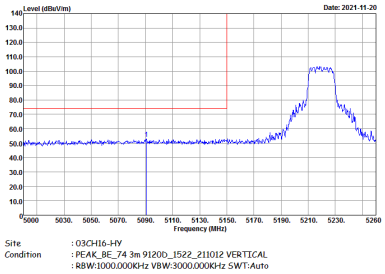
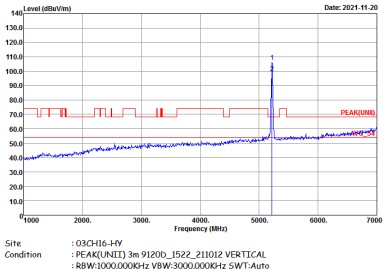
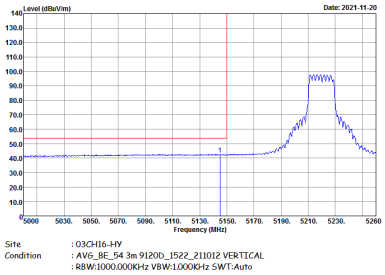
WIFI 802.11n HT20 (Band Edge @ 3m)

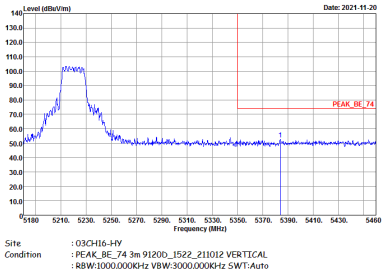
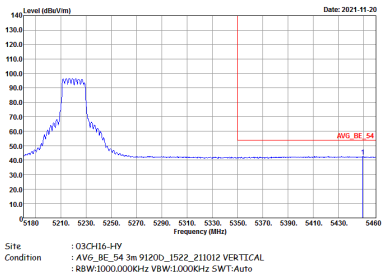
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

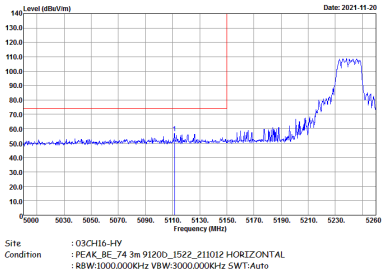
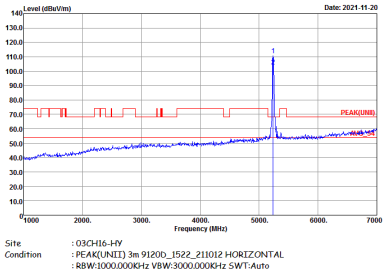
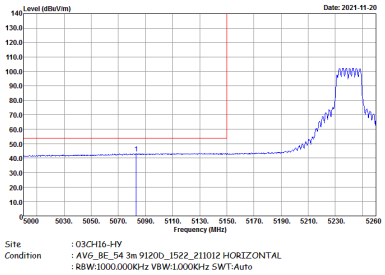
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

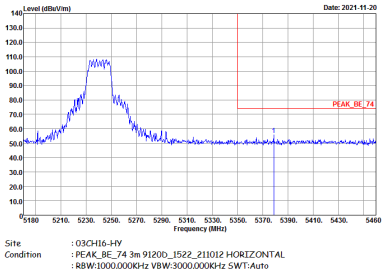
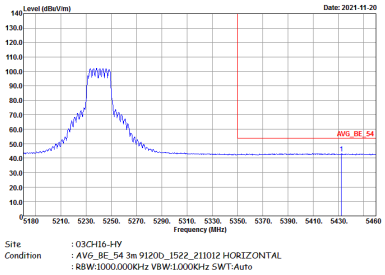
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

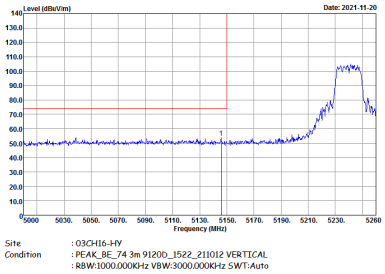
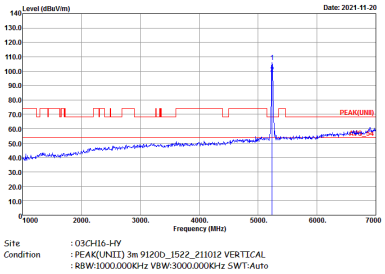
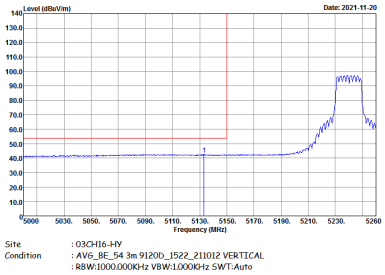
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

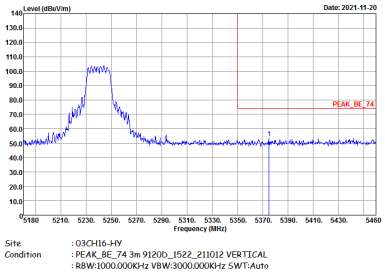
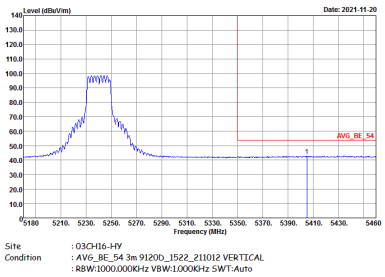
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH44 5220MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

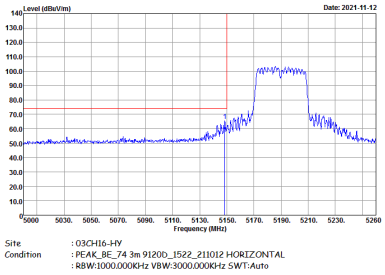
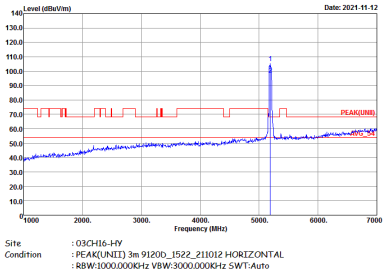
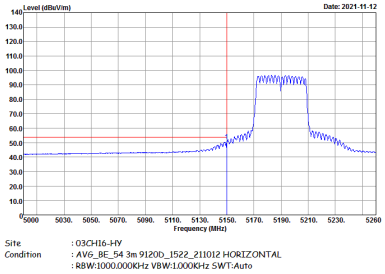
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

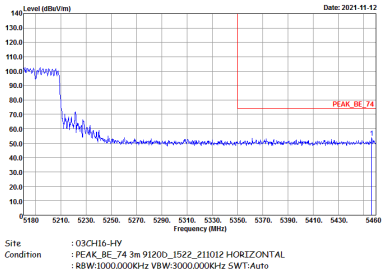
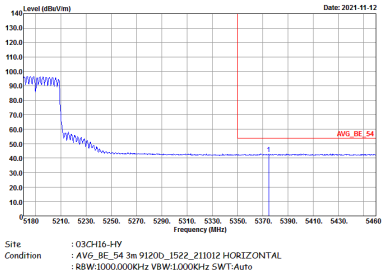
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

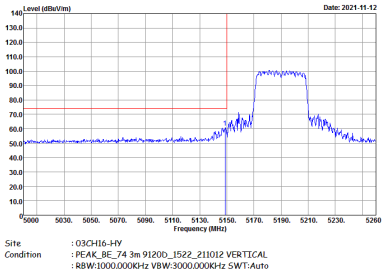
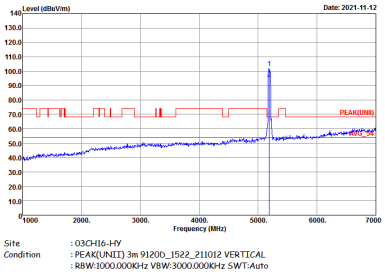
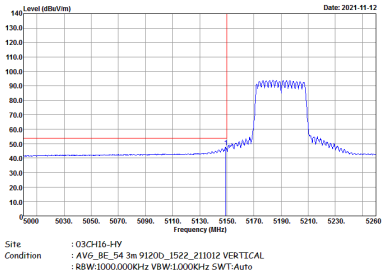
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT20 CH48 5240MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

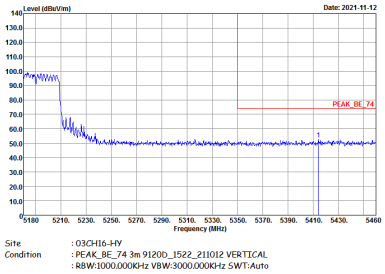
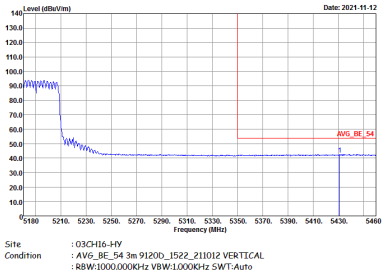
Band 1 5150~5250MHz

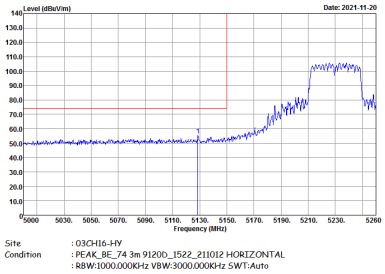
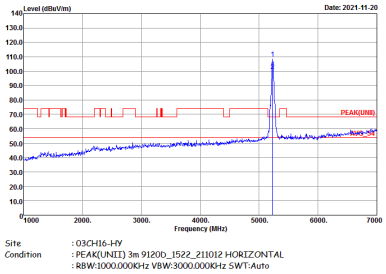
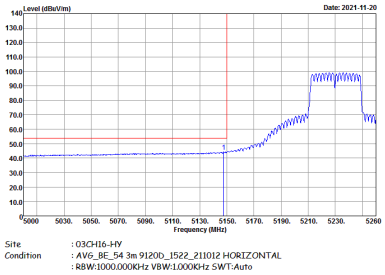
WIFI 802.11n HT40 (Band Edge @ 3m)

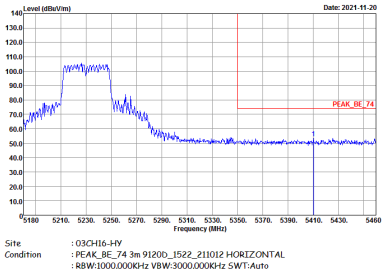
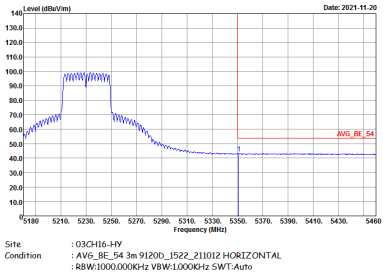
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

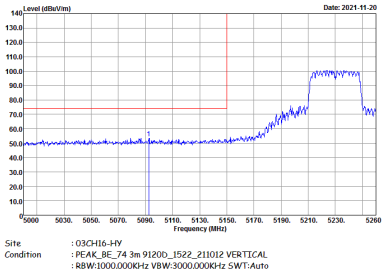
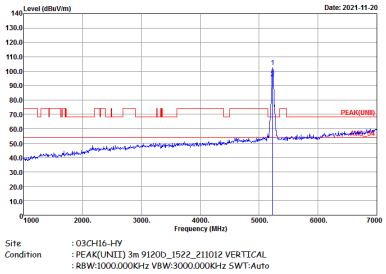
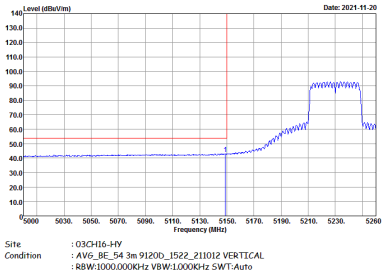
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

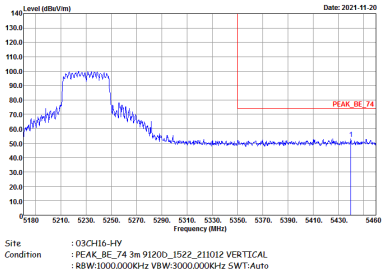
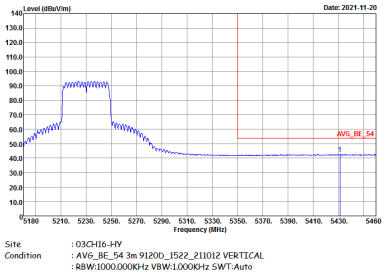
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH38 5190MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

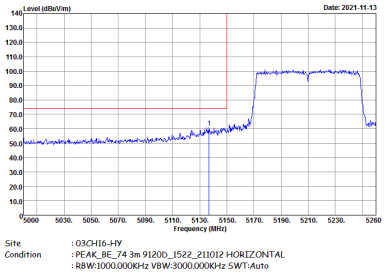
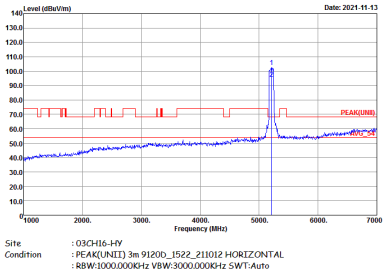
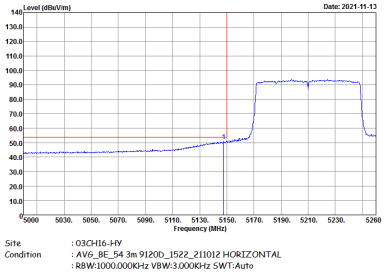
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

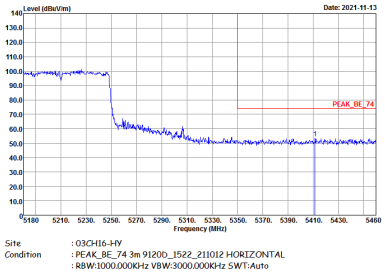
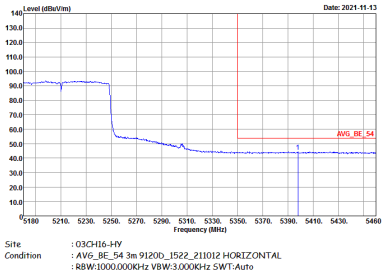
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

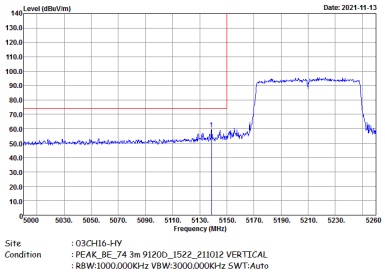
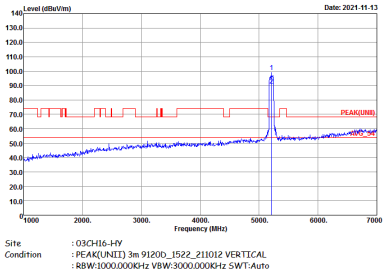
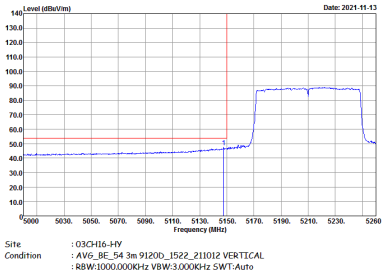
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11n HT40 CH46 5230MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

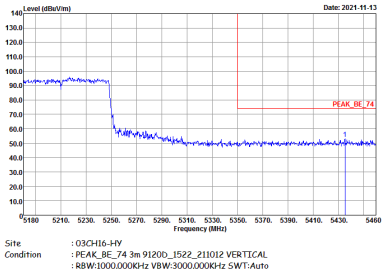
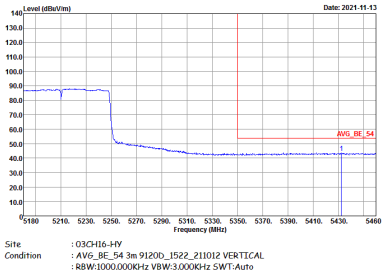
Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

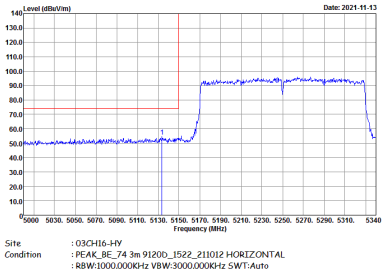
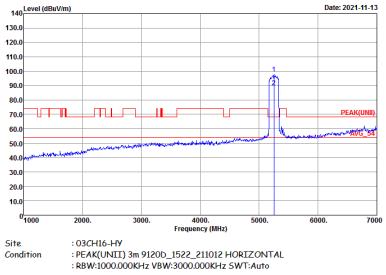
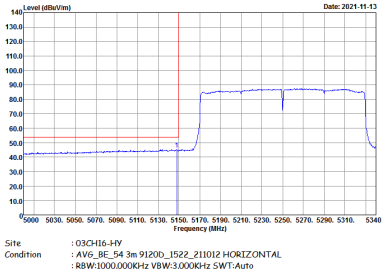
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

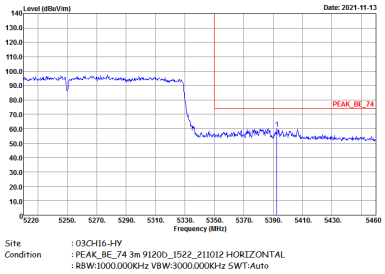
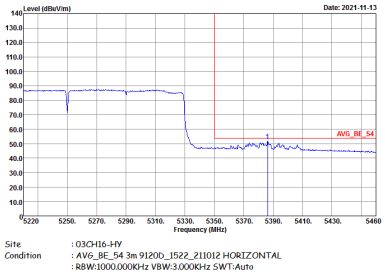
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

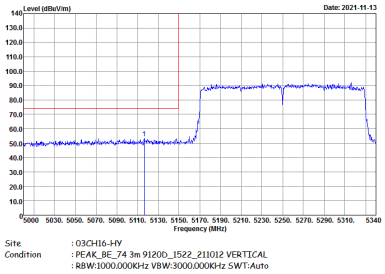
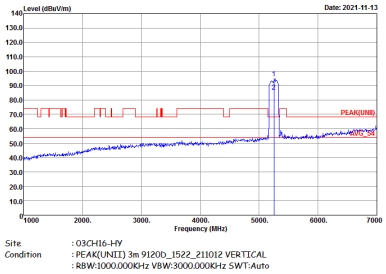
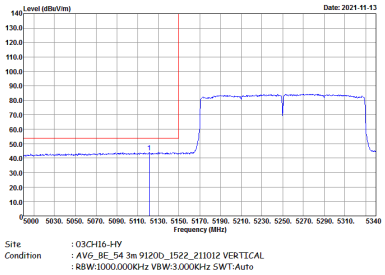
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

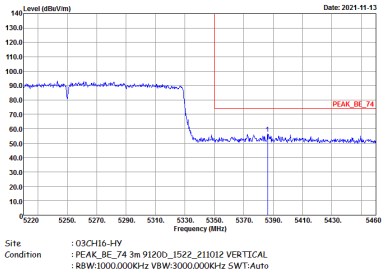
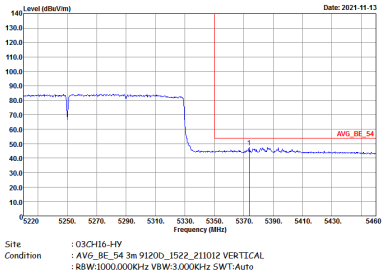
Band 1 5150~5250MHz

WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

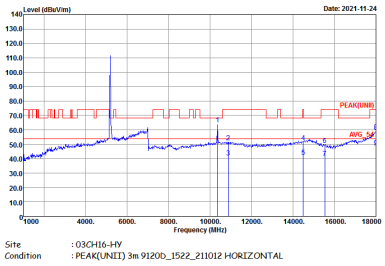
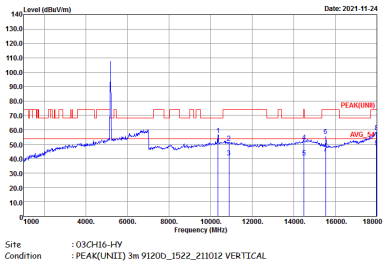
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

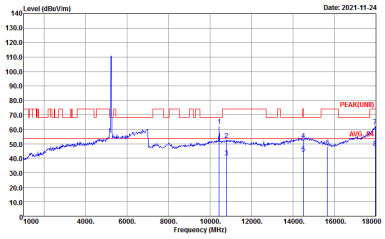
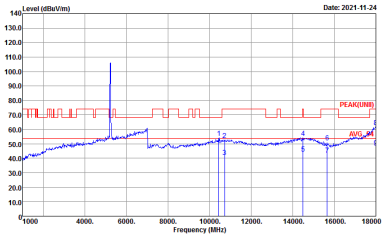
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

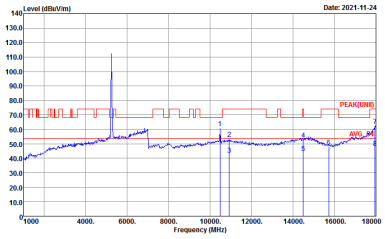
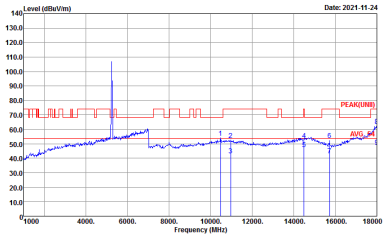
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 - 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

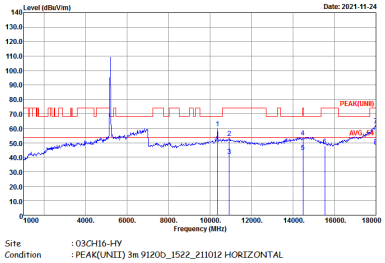
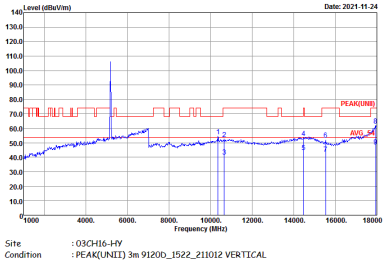
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
4+3	Horizontal	Vertical
Peak Avg.		

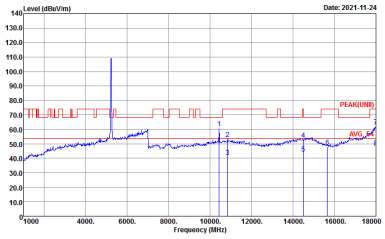
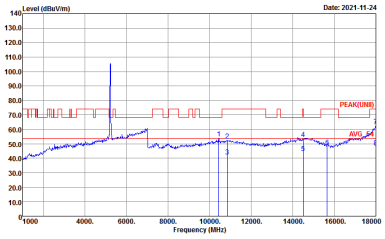
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522_211012 HORIZONTAL	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522_211012 VERTICAL

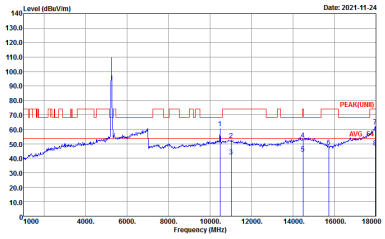
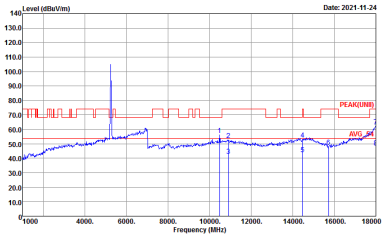
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
4+3	Horizontal	Vertical
Peak Avg.		

Band 1 5150~5250MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

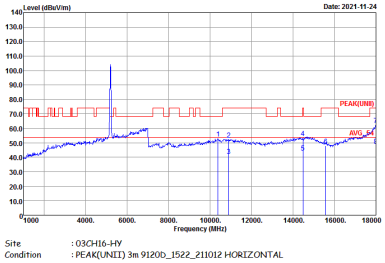
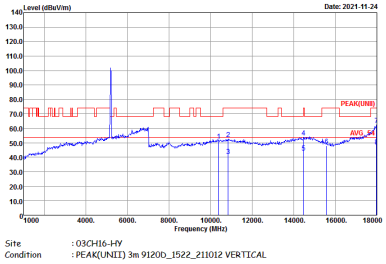
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH36 5180MHz	
4+3	Horizontal	Vertical
Peak Avg.		

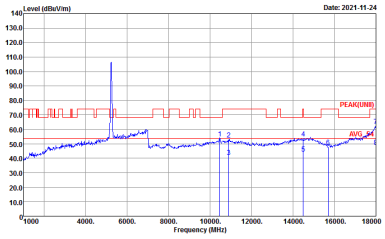
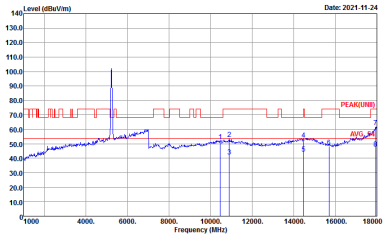
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH44 5220MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522_211012 HORIZONTAL	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522_211012 VERTICAL

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT20 CH48 5240MHz	
4+3	Horizontal	Vertical
Peak Avg.	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522_211012 HORIZONTAL	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522_211012 VERTICAL

Band 1 5150~5250MHz

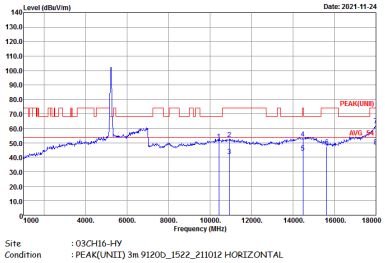
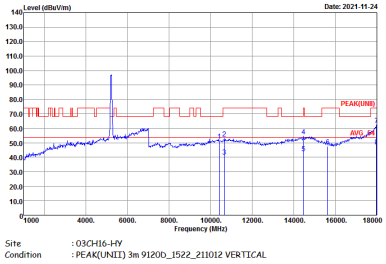
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH38 5190MHz	
4+3	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11n HT40 CH46 5230MHz	
4+3	Horizontal	Vertical
Peak Avg.		

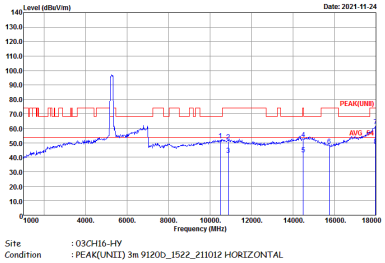
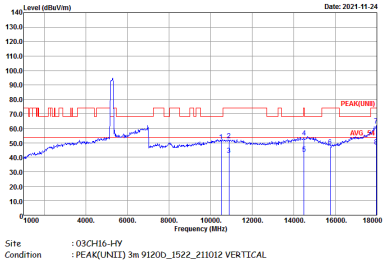
Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
4+3	Horizontal	Vertical
Peak Avg.		

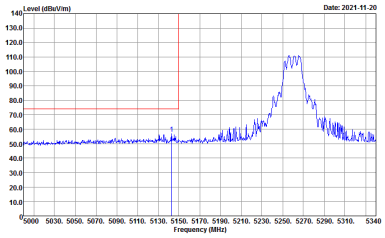
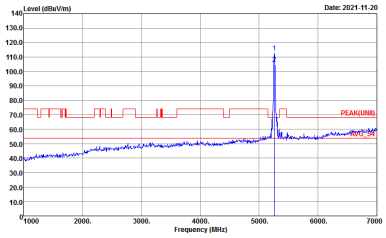
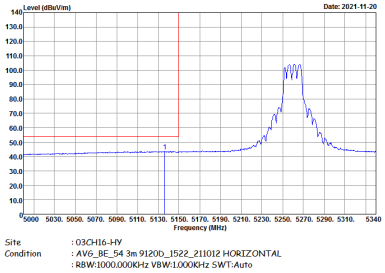
Band 1 - 5150~5250MHz

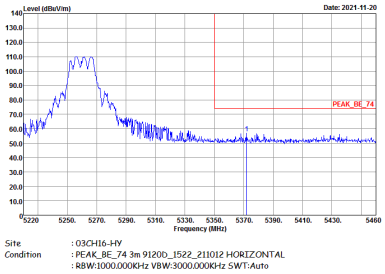
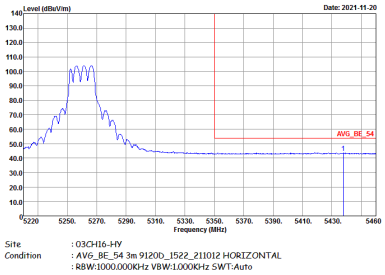
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

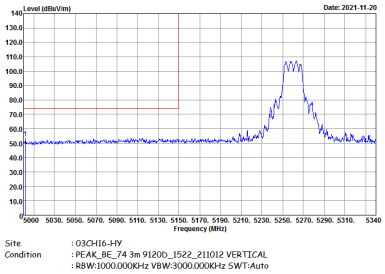
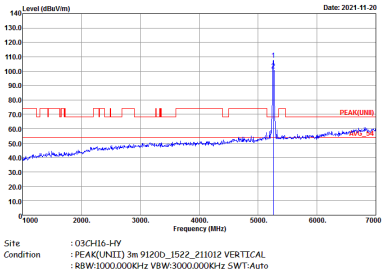
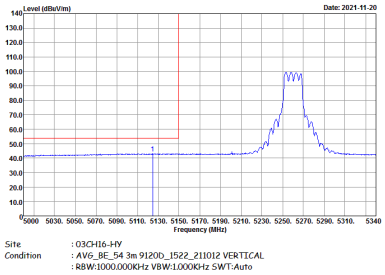
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz	
4+3	Horizontal	Vertical
Peak Avg.		

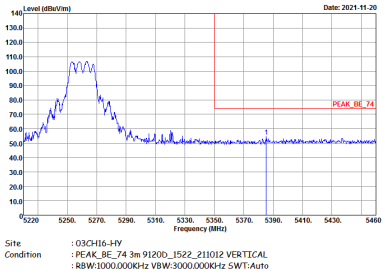
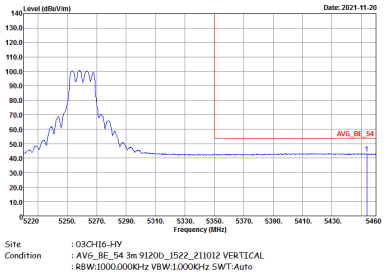
Band 2 - 5250~5350MHz

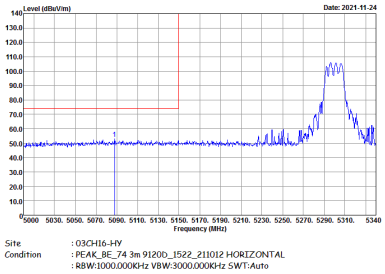
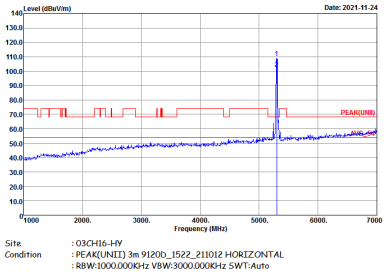
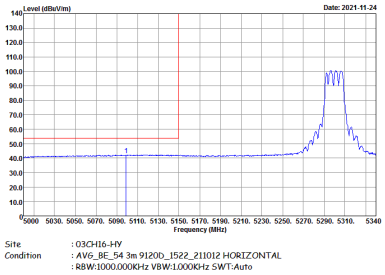
WIFI 802.11a (Band Edge @ 3m)

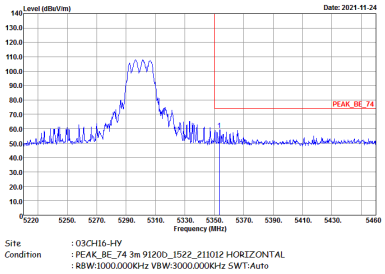
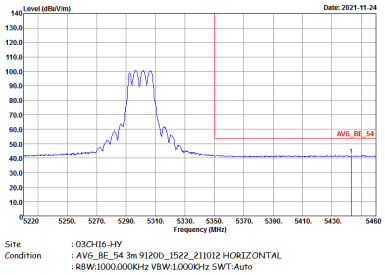
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

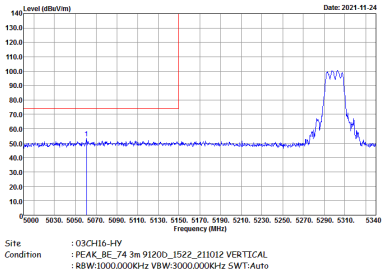
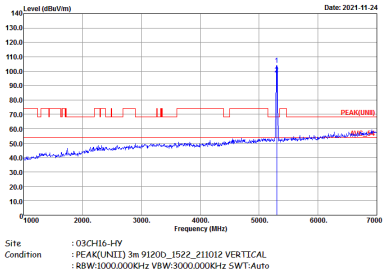
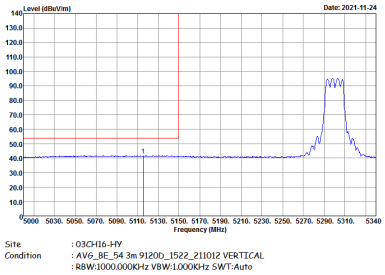
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

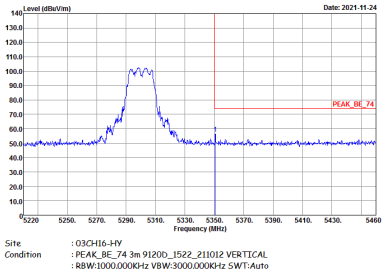
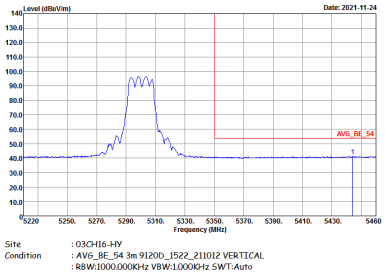
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

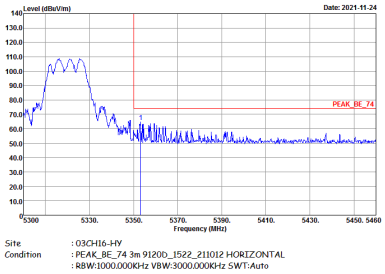
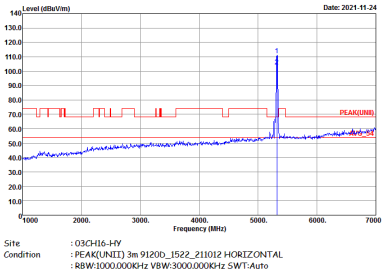
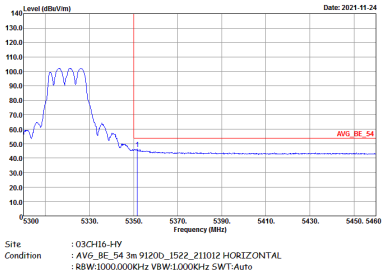
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

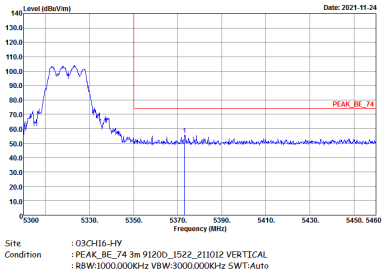
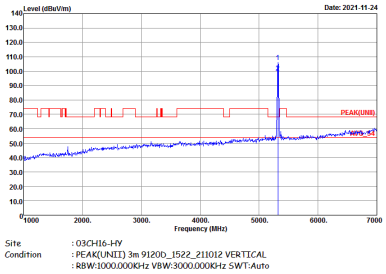
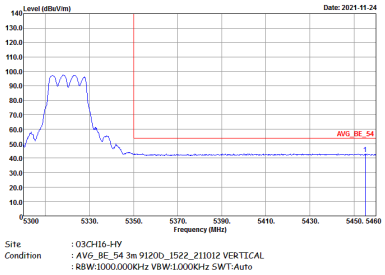
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

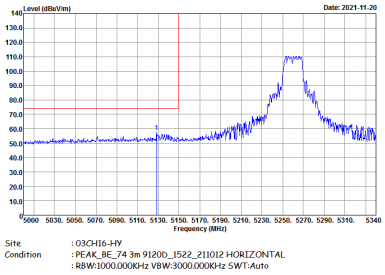
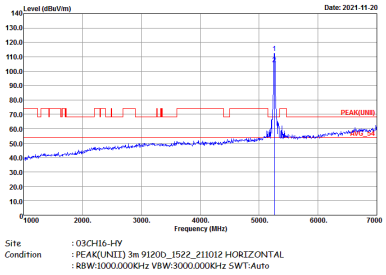
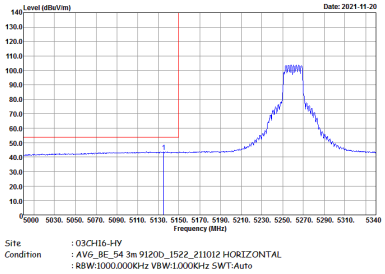
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

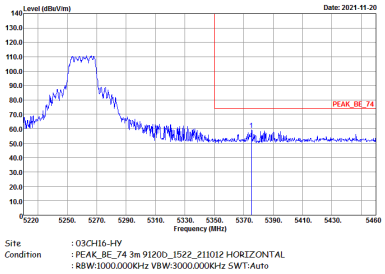
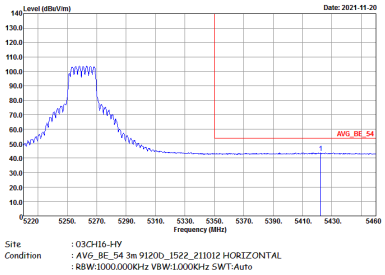
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

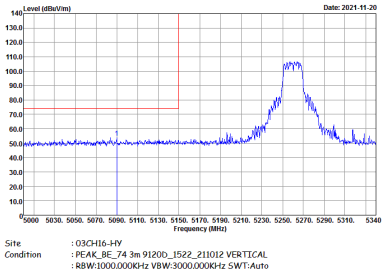
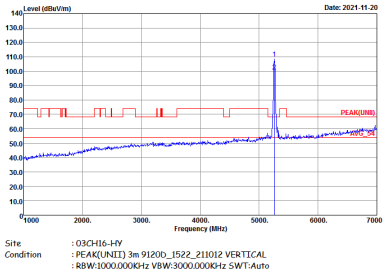
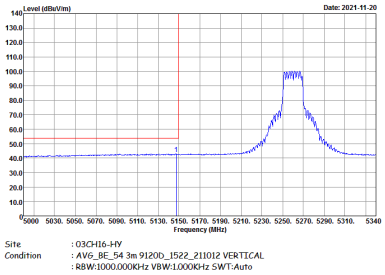
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

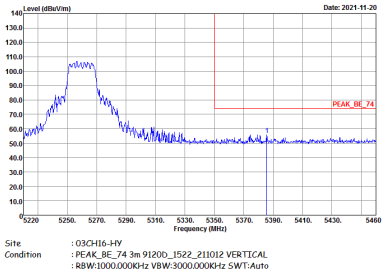
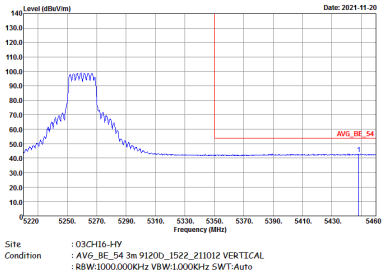
Band 2 5250~5350MHz

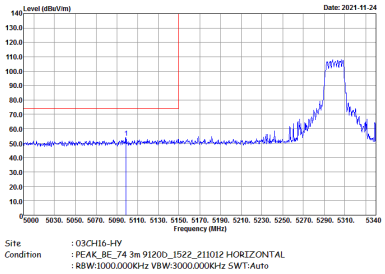
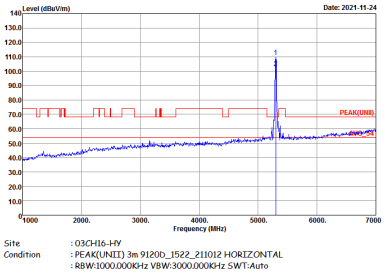
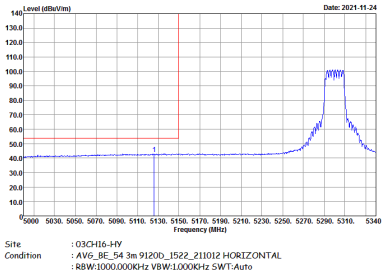
WIFI 802.11n HT20 (Band Edge @ 3m)

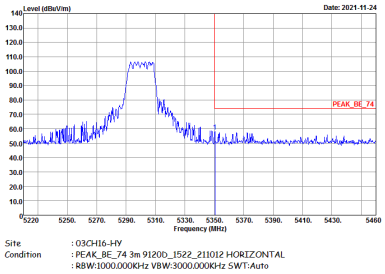
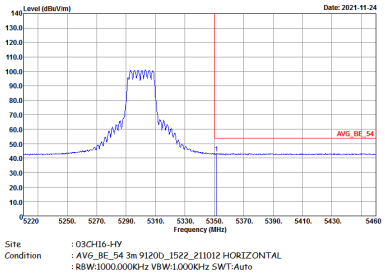
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

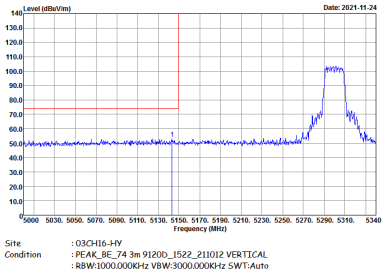
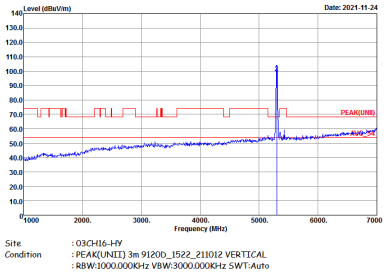
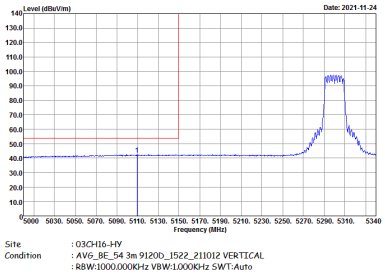
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

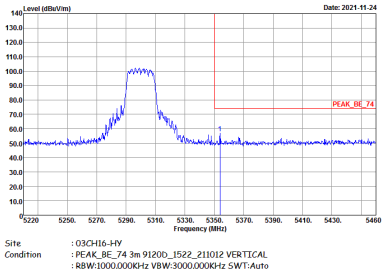
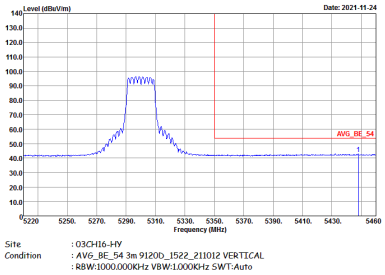
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

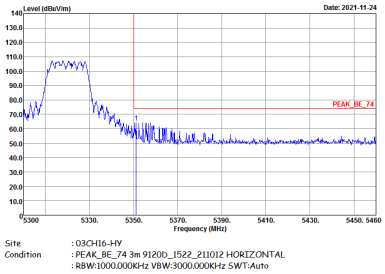
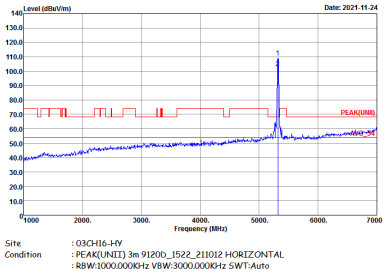
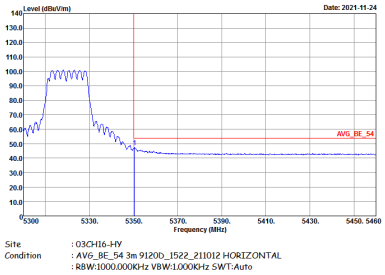
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH52 5260MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

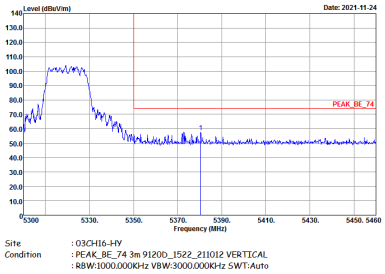
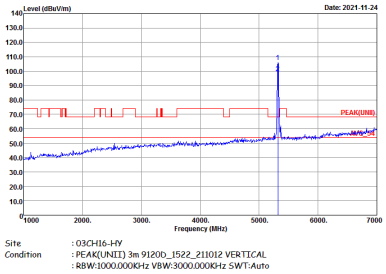
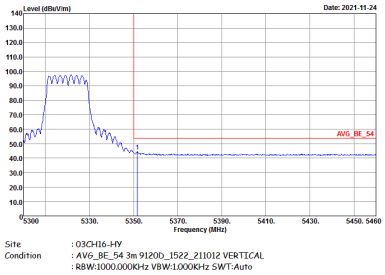
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
4+3	Horizontal	Vertical
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - L	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

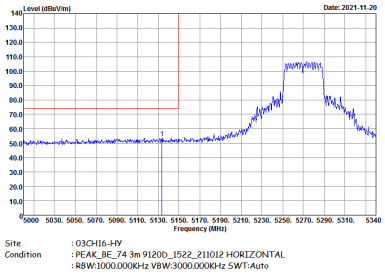
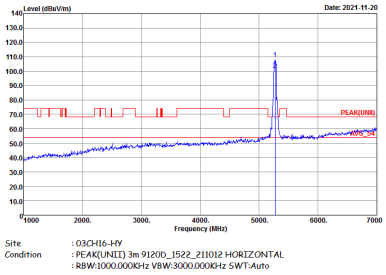
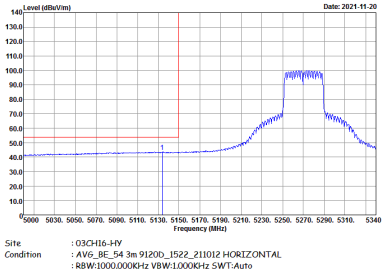
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH60 5300MHz - R	
4+3	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

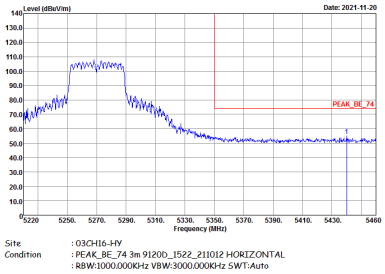
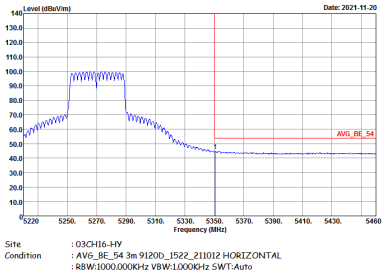
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

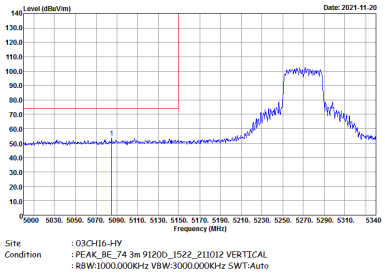
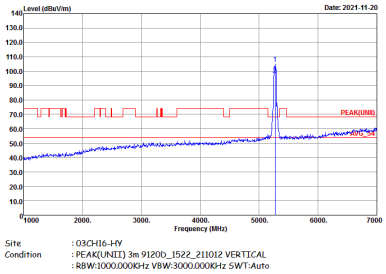
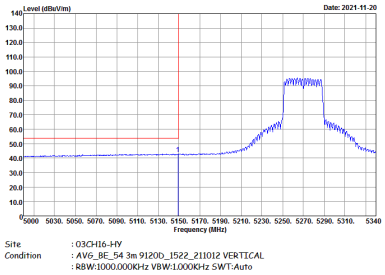
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT20 CH64 5320MHz	
4+3	Vertical	Fundamental
Peak		
Avg.		Left blank

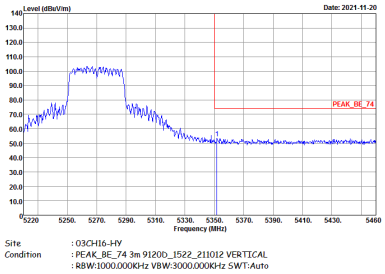
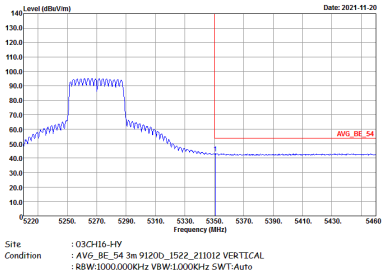
Band 2 5250~5350MHz

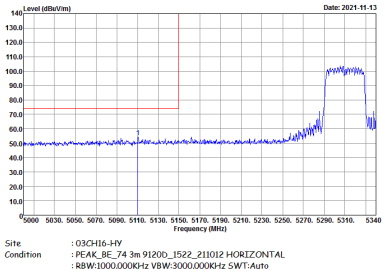
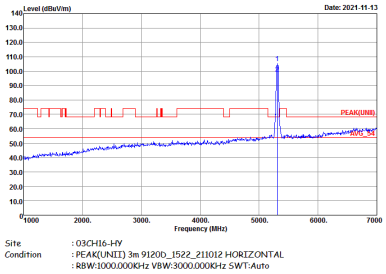
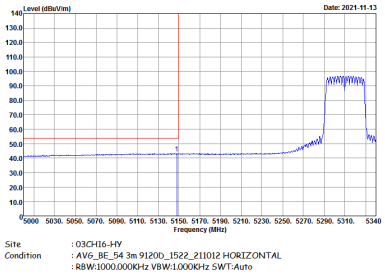
WIFI 802.11n HT40 (Band Edge @ 3m)

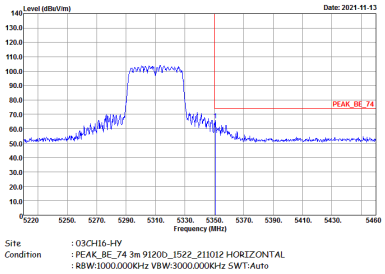
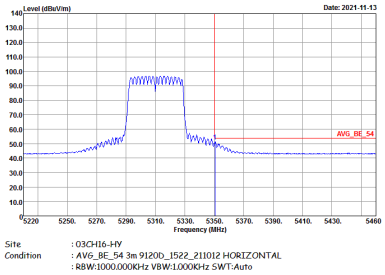
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 MHz- L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 MHz- R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 MHz- L	
4+3	Vertical	Vertical
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH54 5270 MHz- R	
4+3	Vertical	Vertical
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 MHz- L	
4+3	Horizontal	Fundamental
Peak		
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11n HT40 CH62 5310 MHz- R	
4+3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank