



FCC RADIO TEST REPORT

FCC ID : TVE-240201
Equipment : Network Security Gateway
Brand Name : FORTINET

Model Name : FortiWiFi 30Gxxxxxxxxxx, FORTIWIFI 30Gxxxxxxxxxx,
FWF-30Gxxxxxxxxxx
FortiWiFi 31Gxxxxxxxxxx, FORTIWIFI 31Gxxxxxxxxxx,
FWF-31Gxxxxxxxxxx
(where "x" can be used as "A-Z", or "0-9", or "-", or blank
for software purposes or marketing purposes only)
Applicant : Fortinet Inc.
909 KIFER RD
SUNNYVALE CA 94086
UNITED STATES
Manufacturer : Fortinet Inc.
909 KIFER RD
SUNNYVALE CA 94086
UNITED STATES
Standard : FCC Part 15 Subpart E §15.407

The product was received on May 17, 2024 and testing was performed from Jun. 12, 2024 to Jul. 02, 2024. 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

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History of this test report

Report No.	Version	Description	Issue Date
FR450904B	01	Initial issue of report	Jul. 31, 2024
FR450904B	02	Revise Antenna Requirements This report is an updated version, replacing the report issued on Jul. 31, 2024.	Aug. 07, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Pass	-
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	0.52 dB under the limit at 5149.24 MHz
3.5	15.207	AC Conducted Emission	Pass	14.69 dB under the limit at 0.17 MHz
3.6	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Yun Huang

Report Producer: Mila Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax Antenna Type WLAN: <Ant. 1> : Dipole Antenna <Ant. 2> : Dipole Antenna <Ant. 3> : Dipole Antenna

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	Ant. 1: 3.27 Ant. 2: 3.27 Ant. 3: 3.27
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	Ant. 1: 2.60 Ant. 2: 2.60 Ant. 3: 2.60
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	Ant. 1: 2.01 Ant. 2: 2.01 Ant. 3: 2.01

Remark:

1. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.
2. Antenna 3 is used for receiving only.

1.1.1 Antenna Directional Gain

<For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F2)f)ii)

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

For power measurements on IEEE 802.11 devices,

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.

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

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

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 1	Ant 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band I	3.27	3.27	3.27	6.28	0.00	0.28
Band II	2.60	2.60	2.60	5.61	0.00	0.00
Band III	2.01	2.01	2.01	5.02	0.00	0.00

Calculation example:

If a device has two antenna, $G_{ANT1} = 3.27\text{dBi}$; $G_{ANT2} = 3.27\text{dBi}$

Directional gain of power measurement = $\max(3.27, 3.27) + 0 = 3.27$ dBi

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[10^{\frac{3.27 \text{ dBi}}{20}} + 10^{\frac{3.27 \text{ dBi}}{20}} \right]^2 \right\}$$

$$= 6.28 \text{ dBi}$$

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

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

<TXBF Modes>

The EUT supports beamforming modes , then

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)e)ii)

Directional gain = GANT + 10 log(NANT/NSS) dBi,

where NSS = the number of independent spatial streams of data and GANT is the antenna gain in dBi

The directional gain “DG” is calculated as following table.

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 1	Ant 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band I	3.27	3.27	6.28	6.28	0.28	0.28
Band II	2.60	2.60	5.61	5.61	0.00	0.00
Band III	2.01	2.01	5.02	5.02	0.00	0.00

Calculation example:

Directional gain is derived from formula which is

$$10 \times \log \{ \{ [10^{\wedge} (3.27 \text{ dBi} / 20) + 10^{\wedge} (3.27 \text{ dBi} / 20)] ^ 2 \} / 2 \}$$

$$= 6.28 \text{ dBi}$$

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

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

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, CO07-HY, 03CH13-HY

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

FCC designation No.: TW3786

1.4 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.

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 two degree (Degree 0 or Degree 90), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 [#]	5210		
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58 [#]	5290		
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700



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

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

Note:

1. The above Frequency and Channel 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.



2.2 Test Mode

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

The power for 802.11n mode is smaller than 802.11ac mode, so all other conducted and radiated test is covered by 802.11ac mode.

The power for TxBF mode is smaller than CDD mode, so all other conducted and radiated test is covered by CDD mode.

The final test modes include the worst data rates for each modulation shown in the table below.

CDD Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by VHT20)	MCS0
802.11n HT40 (Covered by VHT40)	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

TXBF Mode

Modulation	Data Rate
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

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



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

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

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



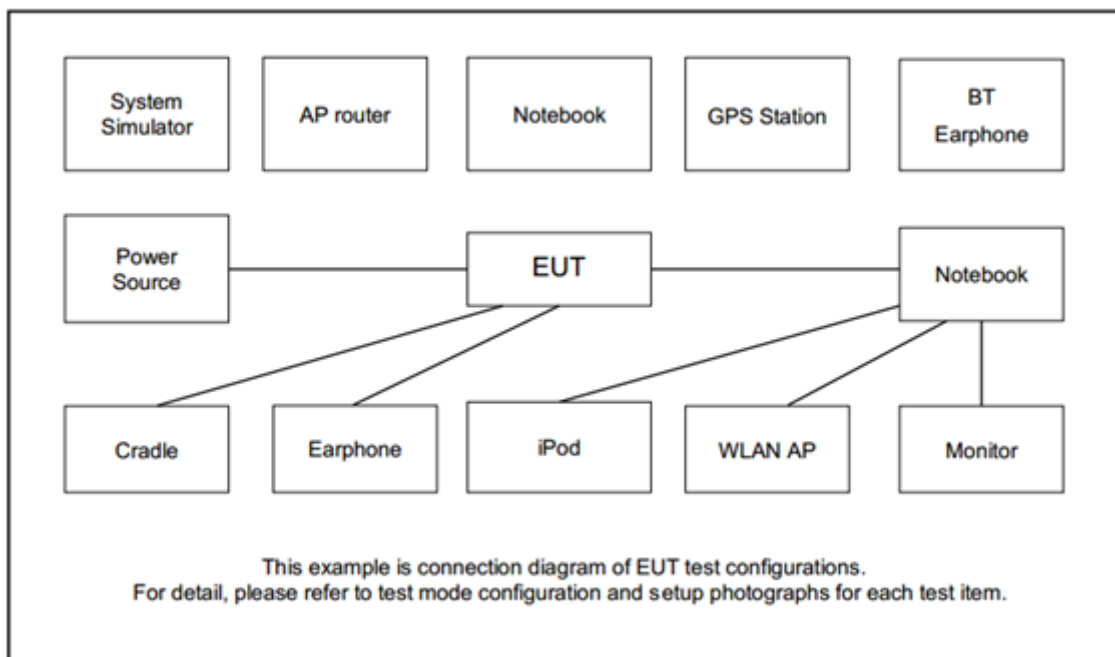
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ax HE20	802.11ax HE20	802.11ax HE20
L	Low	36	52	100
		40	-	-
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ax HE40	802.11ax HE40	802.11ax HE40
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
		802.11ax HE80	802.11ax HE80	802.11ax HE80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

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



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC52	MSQ-RTAC4A00	N/A	Unshielded,1.8m
2.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “MT7906 QA 0.0.2.78” 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.

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

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

For Straddle Channel, 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.

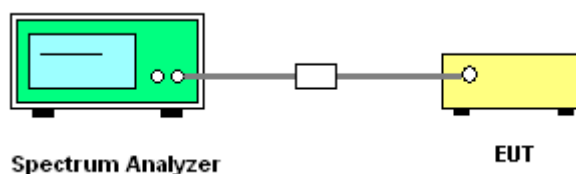
3.1.2 Measuring Instruments

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) $\geq 3 * RBW$.
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.

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 $11 \text{ dBm} + 10 \log B$, 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

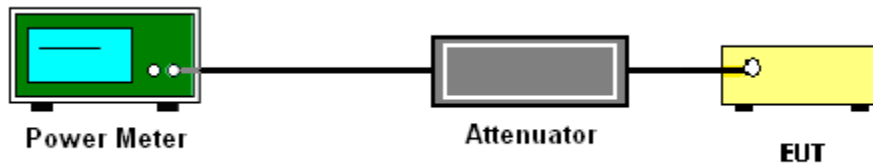
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

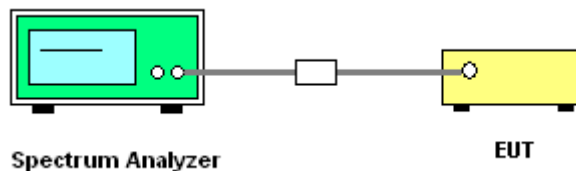
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

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

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.

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

EIRP (dBm)	Field Strength at 3m (dB μ V/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

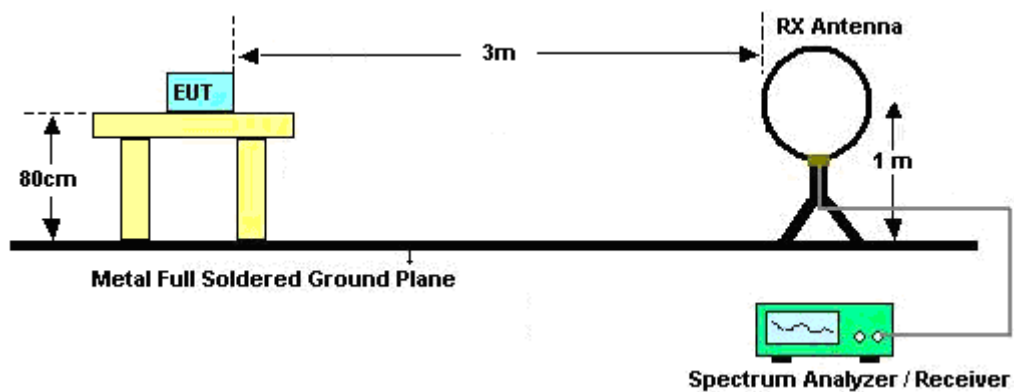
(2) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

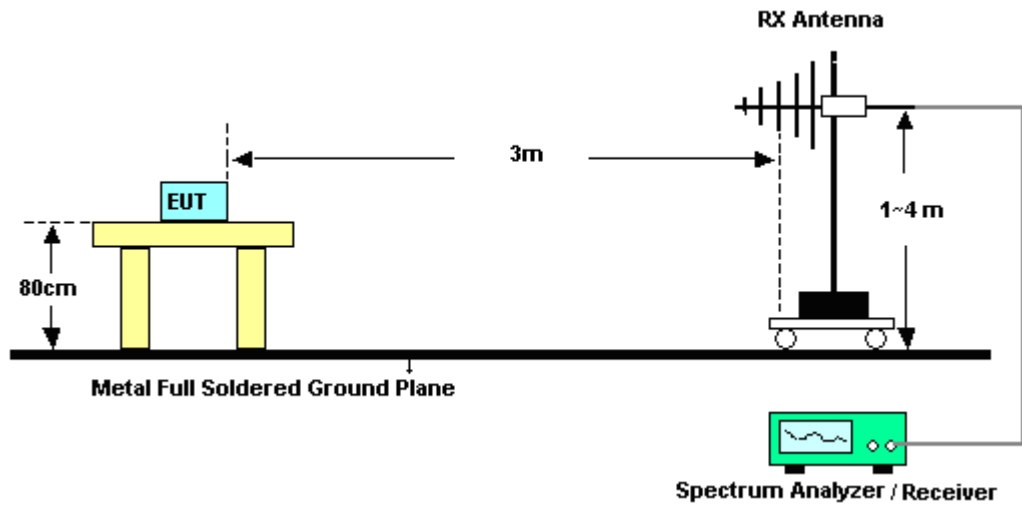
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna 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

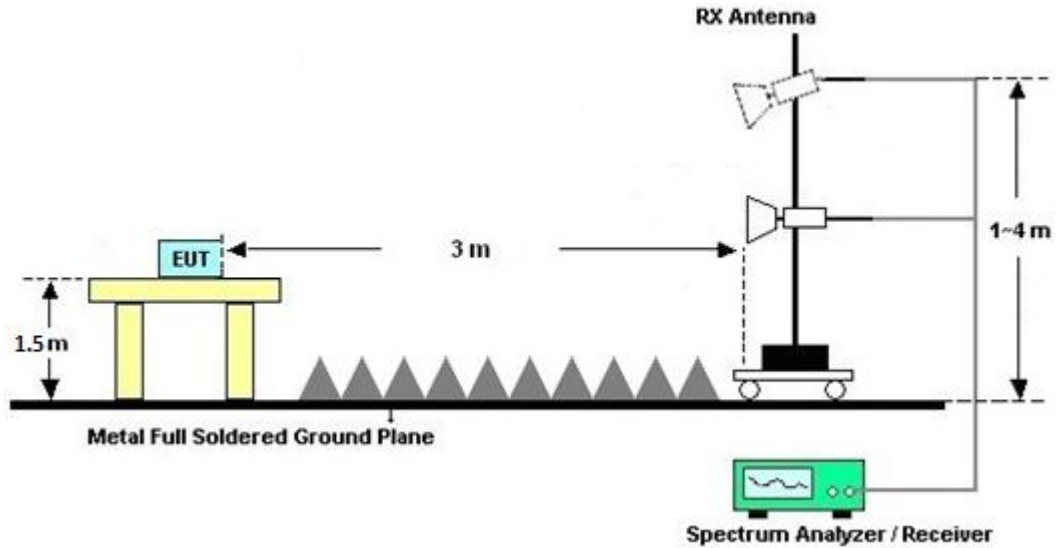
For radiated emissions below 30MHz



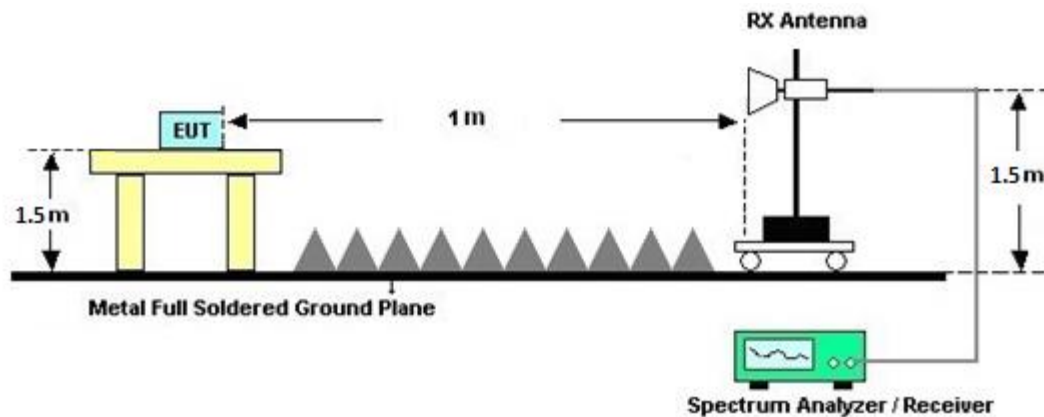
For radiated emissions from 30MHz to 1GHz



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 Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

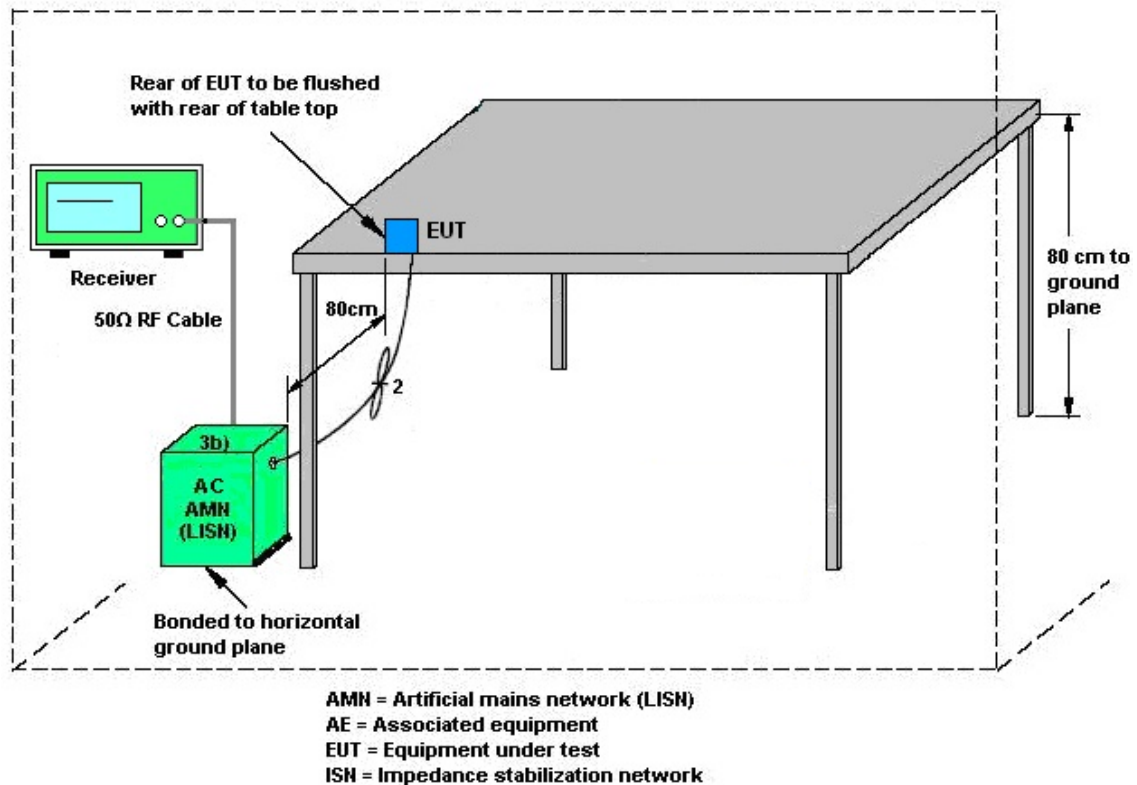
3.5.2 Measuring Instruments

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

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.6.2 Antenna Anti-Replacement Construction

The EUT requires professional installation.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEP	DTM-303A	TP201996	N/A	Nov. 07, 2023	Jun. 26, 2024~ Jul. 02, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015SNO 36 (NO:35)	10MHz~6GHz	Aug. 23, 2023	Jun. 26, 2024~ Jul. 02, 2024	Aug. 22, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101466	10HZ~44GHZ	Jan. 24, 2024	Jun. 26, 2024~ Jul. 02, 2024	Jan. 23, 2025	Conducted (TH05-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Jun. 12, 2024	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 12, 2024	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz~200MHz	Oct. 20, 2023	Jun. 12, 2024	Oct. 19, 2024	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 14, 2024	Jun. 12, 2024	Mar. 13, 2025	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 10, 2024	Jun. 12, 2024	Mar. 09, 2025	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 07, 2024	Jun. 12, 2024	Mar. 06, 2025	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Jun. 12, 2024	Sep. 19, 2024	Conduction (CO07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	Jun. 19, 2024~ Jun. 28, 2024	Sep. 11, 2024	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 06, 2024	Jun. 19, 2024~ Jun. 28, 2024	Mar. 05, 2025	Radiation (03CH13-HY)
Amplifier	SONOMA	310N	187282	9kHz~1GHz	Dec. 13, 2023	Jun. 19, 2024~ Jun. 28, 2024	Dec. 12, 2024	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	40103 & 07	30MHz~1GHz	Apr. 12, 2024	Jun. 19, 2024~ Jun. 28, 2024	Apr. 11, 2025	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz~18GHz	Aug. 17, 2023	Jun. 19, 2024~ Jun. 28, 2024	Aug. 16, 2024	Radiation (03CH13-HY)
Hygrometer	TECEP	DTM-303A	TP215159	N/A	Sep. 13, 2023	Jun. 19, 2024~ Jun. 28, 2024	Sep. 12, 2024	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 15, 2024	Jun. 19, 2024~ Jun. 28, 2024	May 14, 2025	Radiation (03CH13-HY)
Preamplifier	EM Electronics	EM01G18G	060803	1GHz~18GHz	Jan. 09, 2024	Jun. 19, 2024~ Jun. 28, 2024	Jan. 08, 2025	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY55370526	10Hz~44GHz	Jan. 18, 2024	Jun. 19, 2024~ Jun. 28, 2024	Jan. 17, 2025	Radiation (03CH13-HY)
Filter	Wainwright	WLK4-1000-15 30-8000-40SS	SN12	1.53GHz Low Pass Filter	Sep. 12, 2023	Jun. 19, 2024~ Jun. 28, 2024	Sep. 11, 2024	Radiation (03CH13-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN5	6.75GHz High Pass Filter	Mar. 08, 2024	Jun. 19, 2024~ Jun. 28, 2024	Mar. 07, 2025	Radiation (03CH13-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30MHz~18GHz	Feb. 07, 2024	Jun. 19, 2024~ Jun. 28, 2024	Feb. 06, 2025	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30MHz~18GHz	Feb. 07, 2024	Jun. 19, 2024~ Jun. 28, 2024	Feb. 06, 2025	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30MHz~18GHz	Feb. 07, 2024	Jun. 19, 2024~ Jun. 28, 2024	Feb. 06, 2025	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jun. 19, 2024~ Jun. 28, 2024	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jun. 19, 2024~ Jun. 28, 2024	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jun. 19, 2024~ Jun. 28, 2024	N/A	Radiation (03CH13-HY)
Software	Audix	N/A	RK-001124	N/A	N/A	Jun. 19, 2024~ Jun. 28, 2024	N/A	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1223	18GHz~40GHz	Jul. 10, 2023	Jun. 19, 2024~ Jun. 28, 2024	Jul. 09, 2024	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060871	18GHz~40GHz	Aug. 30, 2023	Jun. 19, 2024~ Jun. 28, 2024	Aug. 29, 2024	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,804 612/2,804614 /2	30MHz~40GHz	Oct. 24, 2023	Jun. 19, 2024~ Jun. 28, 2024	Oct. 23, 2024	Radiation (03CH13-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.44 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.2 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Ju Chang	Temperature:	21~25	°C
Test Date:	2024/6/26-2024/07/02	Relative Humidity:	51~54	%

<CDD Mode>

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 MIMO									
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	5180	17.53	17.20	30.43	28.52	-
11a	6Mbps	2	44	5220	24.58	21.44	42.58	39.06	-
11a	6Mbps	2	48	5240	29.58	26.47	45.30	43.58	-
VHT20	MCS0	2	36	5180	18.53	18.14	31.99	29.50	-
VHT20	MCS0	2	44	5220	21.36	19.51	41.75	39.43	-
VHT20	MCS0	2	48	5240	35.32	31.66	55.16	46.94	-
VHT40	MCS0	2	38	5190	37.20	36.94	58.29	55.06	-
VHT40	MCS0	2	46	5230	37.01	36.60	61.92	55.73	-
VHT80	MCS0	2	42	5210	75.51	75.33	108.51	102.88	-

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO												
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	5180	21.33	20.83	24.10	30.00		3.27		Pass
11a	6Mbps	2	44	5220	23.50	23.29	26.41	30.00		3.27		Pass
11a	6Mbps	2	48	5240	24.27	24.06	27.18	30.00		3.27		Pass
HT20	MCS0	2	36	5180	20.72	20.29	23.52	30.00		3.27		Pass
HT20	MCS0	2	44	5220	22.54	22.44	25.50	30.00		3.27		Pass
HT20	MCS0	2	48	5240	25.00	24.75	27.89	30.00		3.27		Pass
HT40	MCS0	2	38	5190	18.60	18.31	21.47	30.00		3.27		Pass
HT40	MCS0	2	46	5230	20.36	20.21	23.30	30.00		3.27		Pass
VHT20	MCS0	2	36	5180	20.82	20.39	23.62	30.00		3.27		Pass
VHT20	MCS0	2	44	5220	22.64	22.54	25.60	30.00		3.27		Pass
VHT20	MCS0	2	48	5240	25.10	24.85	27.99	30.00		3.27		Pass
VHT40	MCS0	2	38	5190	18.70	18.41	21.57	30.00		3.27		Pass
VHT40	MCS0	2	46	5230	20.46	20.31	23.40	30.00		3.27		Pass
VHT80	MCS0	2	42	5210	12.30	12.00	15.16	30.00		3.27		Pass

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	5180	0.18	0.17	-		13.03	16.72		6.28		Pass
11a	6Mbps	2	44	5220	0.18	0.17			15.13	16.72		6.28		Pass
11a	6Mbps	2	48	5240	0.18	0.17			16.19	16.72		6.28		Pass
VHT20	MCS0	2	36	5180	0.18	0.18			12.44	16.72		6.28		Pass
VHT20	MCS0	2	44	5220	0.18	0.18			14.49	16.72		6.28		Pass
VHT20	MCS0	2	48	5240	0.18	0.18			16.46	16.72		6.28		Pass
VHT40	MCS0	2	38	5190	0.35	0.38			8.41	16.72		6.28		Pass
VHT40	MCS0	2	46	5230	0.35	0.38			9.92	16.72		6.28		Pass
VHT80	MCS0	2	42	5210	0.69	0.69			-0.85	16.72		6.28		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A MIMO											
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260	16.76	16.67	22.03	20.84	23.98		-
11a	6Mbps	2	60	5300	17.27	17.15	33.90	28.11	23.98		
11a	6Mbps	2	64	5320	17.17	17.11	31.47	30.98	23.98		
VHT20	MCS0	2	52	5260	17.98	17.76	22.67	22.19	23.98		
VHT20	MCS0	2	60	5300	18.38	18.12	33.66	30.77	23.98		
VHT20	MCS0	2	64	5320	18.34	18.06	29.18	29.67	23.98		
VHT40	MCS0	2	54	5270	36.76	36.66	55.02	44.77	23.98		
VHT40	MCS0	2	62	5310	37.07	38.84	59.26	57.15	23.98		
VHT80	MCS0	2	58	5290	75.57	75.38	111.87	112.90	23.98		

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	18.65	18.63	21.65	23.98		2.60		30	Pass
11a	6Mbps	2	60	5300	18.92	19.06	22.00	23.98		2.60		30	Pass
11a	6Mbps	2	64	5320	18.84	18.88	21.87	23.98		2.60		30	Pass
HT20	MCS0	2	52	5260	19.02	19.09	22.07	23.98		2.60		30	Pass
HT20	MCS0	2	60	5300	18.82	18.93	21.89	23.98		2.60		30	Pass
HT20	MCS0	2	64	5320	18.60	18.80	21.71	23.98		2.60		30	Pass
HT40	MCS0	2	54	5270	19.12	19.34	22.24	23.98		2.60		30	Pass
HT40	MCS0	2	62	5310	16.99	17.25	20.13	23.98		2.60		30	Pass
VHT20	MCS0	2	52	5260	19.12	19.19	22.17	23.98		2.60		30	Pass
VHT20	MCS0	2	60	5300	18.92	19.03	21.99	23.98		2.60		30	Pass
VHT20	MCS0	2	64	5320	18.70	18.90	21.81	23.98		2.60		30	Pass
VHT40	MCS0	2	54	5270	19.22	19.44	22.34	23.98		2.60		30	Pass
VHT40	MCS0	2	62	5310	17.09	17.35	20.23	23.98		2.60		30	Pass
VHT80	MCS0	2	58	5290	13.40	13.33	16.38	23.98		2.60		30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	52	5260	0.18	0.17	-		10.60	11.00		5.61		Pass
11a	6Mbps	2	60	5300	0.18	0.17			10.84	11.00		5.61		Pass
11a	6Mbps	2	64	5320	0.18	0.17			10.61	11.00		5.61		Pass
VHT20	MCS0	2	52	5260	0.18	0.18			10.76	11.00		5.61		Pass
VHT20	MCS0	2	60	5300	0.18	0.18			10.62	11.00		5.61		Pass
VHT20	MCS0	2	64	5320	0.18	0.18			10.58	11.00		5.61		Pass
VHT40	MCS0	2	54	5270	0.35	0.38			9.02	11.00		5.61		Pass
VHT40	MCS0	2	62	5310	0.35	0.38			6.92	11.00		5.61		Pass
VHT80	MCS0	2	58	5290	0.69	0.69			0.59	11.00		5.61		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C MIMO												
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	2	100	5500	17.25	17.06	28.89	29.14	23.98		----	----
11a	6Mbps	2	116	5580	16.77	16.70	21.62	22.71	23.98		----	----
11a	6Mbps	2	140	5700	17.07	17.00	28.21	25.70	23.98		----	----
VHT20	MCS0	2	100	5500	18.29	18.06	29.94	29.12	23.98		----	----
VHT20	MCS0	2	116	5580	17.96	17.75	22.42	22.12	23.98		----	----
VHT20	MCS0	2	140	5700	18.20	18.02	29.13	29.19	23.98		----	----
VHT40	MCS0	2	102	5510	32.73	36.79	62.43	59.25	23.98		----	----
VHT40	MCS0	2	110	5550	37.18	36.70	63.90	54.16	23.98		----	----
VHT40	MCS0	2	134	5670	37.58	37.12	69.23	67.65	23.98		----	----
VHT80	MCS0	2	106	5530	75.52	75.25	104.80	99.81	23.98		----	----
VHT80	MCS0	2	122	5610	75.46	75.38	111.01	110.78	23.98		----	----

U-NII-2C straddle channel MIMO												
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	2	144	5720	13.38	13.34	15.69	15.66	22.95		3.155	3.165
VHT20	MCS0	2	144	5720	13.95	13.91	16.06	15.75	22.97		3.795	3.79
VHT40	MCS0	2	142	5710	33.58	33.39	44.62	51.16	23.98		2.559	2.559
VHT80	MCS0	2	138	5690	72.73	72.63	92.54	76.82	23.98		2.584	2.568
6dB Bandwidth Limit $\geq$ 500kHz											Pass	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500	19.50	19.00	22.27	23.98	2.01	30	Pass		
11a	6Mbps	2	116	5580	19.13	19.22	22.19	23.98	2.01	30	Pass		
11a	6Mbps	2	140	5700	18.77	18.66	21.73	23.98	2.01	30	Pass		
HT20	MCS0	2	100	5500	19.14	18.32	21.76	23.98	2.01	30	Pass		
HT20	MCS0	2	116	5580	19.19	19.17	22.19	23.98	2.01	30	Pass		
HT20	MCS0	2	140	5700	19.21	19.00	22.12	23.98	2.01	30	Pass		
HT40	MCS0	2	102	5510	19.88	19.05	22.50	23.98	2.01	30	Pass		
HT40	MCS0	2	110	5550	21.23	20.35	23.82	23.98	2.01	30	Pass		
HT40	MCS0	2	134	5670	20.97	20.26	23.64	23.98	2.01	30	Pass		
VHT20	MCS0	2	100	5500	19.24	18.42	21.86	23.98	2.01	30	Pass		
VHT20	MCS0	2	116	5580	19.29	19.27	22.29	23.98	2.01	30	Pass		
VHT20	MCS0	2	140	5700	19.31	19.10	22.22	23.98	2.01	30	Pass		
VHT40	MCS0	2	102	5510	19.98	19.15	22.60	23.98	2.01	30	Pass		
VHT40	MCS0	2	110	5550	21.33	20.45	23.92	23.98	2.01	30	Pass		
VHT40	MCS0	2	134	5670	21.07	20.36	23.74	23.98	2.01	30	Pass		
VHT80	MCS0	2	106	5530	16.55	15.92	19.26	23.98	2.01	30	Pass		
VHT80	MCS0	2	122	5610	20.55	20.58	23.58	23.98	2.01	30	Pass		

FCC U-NII-2C straddle channel MIMO													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	144	5720	18.75	18.63	21.70	22.95		2.01		30	Pass
HT20	MCS0	2	144	5720	19.28	19.11	22.21	23.98		2.01		30	Pass
HT40	MCS0	2	142	5710	20.98	20.65	23.83	23.98		2.01		30	Pass
VHT20	MCS0	2	144	5720	19.38	19.21	22.31	22.97		2.01		30	Pass
VHT40	MCS0	2	142	5710	21.08	20.75	23.93	23.98		2.01		30	Pass
VHT80	MCS0	2	138	5690	21.03	20.44	23.76	23.98		2.01		30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2C MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	100	5500	0.18	0.17	-		10.75	11.00		5.02		Pass
11a	6Mbps	2	116	5580	0.18	0.17			10.88	11.00		5.02		Pass
11a	6Mbps	2	140	5700	0.18	0.17			10.73	11.00		5.02		Pass
VHT20	MCS0	2	100	5500	0.18	0.18			10.55	11.00		5.02		Pass
VHT20	MCS0	2	116	5580	0.18	0.18			10.78	11.00		5.02		Pass
VHT20	MCS0	2	140	5700	0.18	0.18			10.92	11.00		5.02		Pass
VHT40	MCS0	2	102	5510	0.35	0.38			9.17	11.00		5.02		Pass
VHT40	MCS0	2	110	5550	0.35	0.38			10.63	11.00		5.02		Pass
VHT40	MCS0	2	134	5670	0.35	0.38			10.49	11.00		5.02		Pass
VHT80	MCS0	2	106	5530	0.69	0.69			3.25	11.00		5.02		Pass
VHT80	MCS0	2	122	5610	0.69	0.69			7.75	11.00		5.02		Pass

U-NII-2C straddle channel MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	144	5720	0.18	0.17	-		10.61	11.00		5.02		Pass
VHT20	MCS0	2	144	5720	0.18	0.18			10.92	11.00		5.02		Pass
VHT40	MCS0	2	142	5710	0.35	0.38			10.56	11.00		5.02		Pass
VHT80	MCS0	2	138	5690	0.69	0.69			7.72	11.00		5.02		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 MIMO										
Mod.	Data Rate	N _{Tx}	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
						Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	36	5180	Full	19.29	19.27	29.33	30.16	-
HE20	MCS0	2	40	5200	Full	19.66	19.45	38.00	34.40	
HE20	MCS0	2	44	5220	Full	19.70	19.41	36.30	36.59	
HE20	MCS0	2	48	5240	Full	30.65	27.80	50.44	49.38	
HE40	MCS0	2	38	5190	Full	38.02	38.09	49.33	50.51	
HE40	MCS0	2	46	5230	Full	37.91	37.81	47.34	42.19	
HE80	MCS0	2	42	5210	Full	76.96	77.13	84.16	91.81	

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	36	5180	Full	19.35	19.00	22.19	30.00		3.27		Pass
HE20	MCS0	2	40	5200	Full	22.14	21.93	25.05	30.00		3.27		Pass
HE20	MCS0	2	44	5220	Full	22.38	22.25	25.33	30.00		3.27		Pass
HE20	MCS0	2	48	5240	Full	24.31	24.23	27.28	30.00		3.27		Pass
HE40	MCS0	2	38	5190	Full	18.56	18.16	21.37	30.00		3.27		Pass
HE40	MCS0	2	46	5230	Full	19.39	19.05	22.23	30.00		3.27		Pass
HE80	MCS0	2	42	5210	Full	13.77	13.54	16.67	30.00		3.27		Pass

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 MIMO															
Mod.	Data Rate	N _{TX}	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 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	36	5180	Full	0.23	0.25	-		10.68	16.72	6.28		Pass	
HE20	MCS0	2	40	5200	Full	0.23	0.25			13.41	16.72	6.28		Pass	
HE20	MCS0	2	44	5220	Full	0.23	0.25			13.79	16.72	6.28		Pass	
HE20	MCS0	2	48	5240	Full	0.23	0.25			15.67	16.72	6.28		Pass	
HE40	MCS0	2	38	5190	Full	0.41	0.41			8.07	16.72	6.28		Pass	
HE40	MCS0	2	46	5230	Full	0.41	0.41			8.67	16.72	6.28		Pass	
HE80	MCS0	2	42	5210	Full	0.75	0.78			0.81	16.72	6.28		Pass	

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A MIMO												
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		FCC 26dB Bandwidth Power Limit (dBm)		Note
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	52	5260	Full	19.11	19.11	23.45	22.01	23.98		-
HE20	MCS0	2	60	5300	Full	19.33	19.31	32.98	26.30	23.98		-
HE20	MCS0	2	64	5320	Full	19.29	19.23	29.83	27.16	23.98		-
HE40	MCS0	2	54	5270	Full	37.84	37.83	40.54	40.43	23.98		-
HE40	MCS0	2	62	5310	Full	38.15	38.05	58.96	52.62	23.98		-
HE80	MCS0	2	58	5290	Full	77.04	77.18	93.44	95.04	23.98		-

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	52	5260	Full	19.23	19.39	22.32	23.98		2.60		30	Pass
HE20	MCS0	2	60	5300	Full	19.53	19.75	22.65	23.98		2.60		30	Pass
HE20	MCS0	2	64	5320	Full	19.10	19.01	22.07	23.98		2.60		30	Pass
HE40	MCS0	2	54	5270	Full	18.57	18.73	21.66	23.98		2.60		30	Pass
HE40	MCS0	2	62	5310	Full	16.31	16.54	19.44	23.98		2.60		30	Pass
HE80	MCS0	2	58	5290	Full	14.06	14.05	17.07	23.98		2.60		30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A MIMO															
Mod.	Data Rate	N _{TX}	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 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	52	5260	Full	0.23	0.25			10.57	11.00	5.61		Pass	
HE20	MCS0	2	60	5300	Full	0.23	0.25			10.95	11.00	5.61		Pass	
HE20	MCS0	2	64	5320	Full	0.23	0.25			10.45	11.00	5.61		Pass	
HE40	MCS0	2	54	5270	Full	0.41	0.41			8.10	11.00	5.61		Pass	
HE40	MCS0	2	62	5310	Full	0.41	0.41			5.92	11.00	5.61		Pass	
HE80	MCS0	2	58	5290	Full	0.75	0.78			1.33	11.00	5.61		Pass	

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C MIMO													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config.	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
HE20	MCS0	2	100	5500	Full	19.31	19.28	28.92	29.60	23.98		----	----
HE20	MCS0	2	116	5580	Full	19.06	19.11	22.74	22.38	23.98		----	----
HE20	MCS0	2	140	5700	Full	19.21	19.19	27.06	28.18	23.98		----	----
HE40	MCS0	2	102	5510	Full	38.10	38.00	52.70	52.69	23.98		----	----
HE40	MCS0	2	110	5550	Full	38.06	37.90	48.50	40.19	23.98		----	----
HE40	MCS0	2	134	5670	Full	38.39	38.24	61.92	57.94	23.98		----	----
HE80	MCS0	2	106	5530	Full	77.09	77.15	100.54	90.75	23.98		----	----
HE80	MCS0	2	122	5610	Full	76.92	77.05	80.29	80.51	23.98		----	----

U-NII-2C straddle channel MIMO													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config.	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
HE20	MCS0	2	144	5720	Full	14.55	14.55	16.18	17.13	23.09		4.46	2.375
HE40	MCS0	2	142	5710	Full	34.10	34.08	40.22	45.82	23.98		3.738	2.568
HE80	MCS0	2	138	5690	Full	73.54	73.59	85.11	75.22	23.98		2.584	2.584
6dB Bandwidth Limit ≥ 500kHz												Pass	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	100	5500	Full	19.29	18.68	22.01	23.98		2.01		30	Pass
HE20	MCS0	2	116	5580	Full	19.31	19.47	22.40	23.98		2.01		30	Pass
HE20	MCS0	2	140	5700	Full	19.40	19.29	22.36	23.98		2.01		30	Pass
HE40	MCS0	2	102	5510	Full	18.74	17.94	21.37	23.98		2.01		30	Pass
HE40	MCS0	2	110	5550	Full	20.74	19.77	23.29	23.98		2.01		30	Pass
HE40	MCS0	2	134	5670	Full	21.20	20.61	23.93	23.98		2.01		30	Pass
HE80	MCS0	2	106	5530	Full	16.41	15.68	19.07	23.98		2.01		30	Pass
HE80	MCS0	2	122	5610	Full	20.81	20.76	23.80	23.98		2.01		30	Pass

FCC U-NII-2C straddle channel MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	144	5720	Full	19.50	19.33	22.43	23.09		2.01		30	Pass
HE40	MCS0	2	142	5710	Full	20.83	20.68	23.77	23.98		2.01		30	Pass
HE80	MCS0	2	138	5690	Full	21.24	20.66	23.97	23.98		2.01		30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2C MIMO															
Mod.	Data Rate	N _{TX}	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 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	100	5500	Full	0.23	0.25			10.56	11.00	5.02		Pass	
HE20	MCS0	2	116	5580	Full	0.23	0.25			10.70	11.00	5.02		Pass	
HE20	MCS0	2	140	5700	Full	0.23	0.25			10.71	11.00	5.02		Pass	
HE40	MCS0	2	102	5510	Full	0.41	0.41			7.93	11.00	5.02		Pass	
HE40	MCS0	2	110	5550	Full	0.41	0.41			9.70	11.00	5.02		Pass	
HE40	MCS0	2	134	5670	Full	0.41	0.41			10.35	11.00	5.02		Pass	
HE80	MCS0	2	106	5530	Full	0.75	0.78			2.97	11.00	5.02		Pass	
HE80	MCS0	2	122	5610	Full	0.75	0.78			7.89	11.00	5.02		Pass	

U-NII-2C straddle channel MIMO															
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	144	5720	Full	0.23	0.25	-			10.71	11.00	5.02		Pass
HE40	MCS0	2	142	5710	Full	0.41	0.41				10.28	11.00	5.02		Pass
HE80	MCS0	2	138	5690	Full	0.75	0.78				7.95	11.00	5.02		Pass

<TXBF Mode>

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO												
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HT20	MCS0	2	36	5180	20.57	20.19	23.39	29.72		6.28		Pass
HT20	MCS0	2	44	5220	22.34	22.24	25.30	29.72		6.28		Pass
HT20	MCS0	2	48	5240	24.87	24.63	27.76	29.72		6.28		Pass
HT40	MCS0	2	38	5190	18.42	18.19	21.32	29.72		6.28		Pass
HT40	MCS0	2	46	5230	20.21	20.08	23.16	29.72		6.28		Pass
VHT20	MCS0	2	36	5180	20.70	20.29	23.51	29.72		6.28		Pass
VHT20	MCS0	2	44	5220	22.45	22.42	25.45	29.72		6.28		Pass
VHT20	MCS0	2	48	5240	24.89	24.68	27.80	29.72		6.28		Pass
VHT40	MCS0	2	38	5190	18.59	18.31	21.46	29.72		6.28		Pass
VHT40	MCS0	2	46	5230	20.33	20.15	23.25	29.72		6.28		Pass
VHT80	MCS0	2	42	5210	12.18	11.87	15.04	29.72		6.28		Pass

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HT20	MCS0	2	52	5260	18.87	18.82	21.86	23.98		5.61		30	Pass
HT20	MCS0	2	60	5300	18.70	18.79	21.76	23.98		5.61		30	Pass
HT20	MCS0	2	64	5320	18.44	18.65	21.56	23.98		5.61		30	Pass
HT40	MCS0	2	54	5270	18.91	19.15	22.04	23.98		5.61		30	Pass
HT40	MCS0	2	62	5310	16.77	17.08	19.94	23.98		5.61		30	Pass
VHT20	MCS0	2	52	5260	18.99	19.03	22.02	23.98		5.61		30	Pass
VHT20	MCS0	2	60	5300	18.79	18.92	21.87	23.98		5.61		30	Pass
VHT20	MCS0	2	64	5320	18.55	18.80	21.69	23.98		5.61		30	Pass
VHT40	MCS0	2	54	5270	19.08	19.25	22.18	23.98		5.61		30	Pass
VHT40	MCS0	2	62	5310	16.82	17.16	20.00	23.98		5.61		30	Pass
VHT80	MCS0	2	58	5290	13.21	13.21	16.22	23.98		5.61		30	Pass

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HT20	MCS0	2	100	5500	19.03	18.20	21.65	23.98		5.02		30	Pass
HT20	MCS0	2	116	5580	19.00	19.03	22.03	23.98		5.02		30	Pass
HT20	MCS0	2	140	5700	19.11	18.82	21.98	23.98		5.02		30	Pass
HT40	MCS0	2	102	5510	19.77	18.86	22.35	23.98		5.02		30	Pass
HT40	MCS0	2	110	5550	21.05	20.25	23.68	23.98		5.02		30	Pass
HT40	MCS0	2	134	5670	20.67	20.05	23.38	23.98		5.02		30	Pass
VHT20	MCS0	2	100	5500	19.04	18.12	21.61	23.98		5.02		30	Pass
VHT20	MCS0	2	116	5580	19.11	19.11	22.12	23.98		5.02		30	Pass
VHT20	MCS0	2	140	5700	19.17	19.00	22.10	23.98		5.02		30	Pass
VHT40	MCS0	2	102	5510	19.77	19.05	22.44	23.98		5.02		30	Pass
VHT40	MCS0	2	110	5550	21.20	20.35	23.81	23.98		5.02		30	Pass
VHT40	MCS0	2	134	5670	20.96	20.11	23.57	23.98		5.02		30	Pass
VHT80	MCS0	2	106	5530	16.44	15.72	19.11	23.98		5.02		30	Pass
VHT80	MCS0	2	122	5610	20.42	20.44	23.44	23.98		5.02		30	Pass

FCC U-NII-2C straddle channel MIMO													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HT20	MCS0	2	144	5720	19.18	18.80	22.00	23.98		5.02		30	Pass
HT40	MCS0	2	142	5710	20.82	20.55	23.70	23.98		5.02		30	Pass
VHT20	MCS0	2	144	5720	19.23	19.07	22.16	22.97		5.02		30	Pass
VHT40	MCS0	2	142	5710	20.95	20.15	23.58	23.98		5.02		30	Pass
VHT80	MCS0	2	138	5690	20.88	20.24	23.58	23.98		5.02		30	Pass

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO													
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	36	5180	Full	19.22	18.70	21.98	29.72		6.28		Pass
HE20	MCS0	2	40	5220	Full	22.02	21.73	24.89	29.72		6.28		Pass
HE20	MCS0	2	44	5220	Full	22.17	22.14	25.17	29.72		6.28		Pass
HE20	MCS0	2	48	5240	Full	24.19	24.10	27.16	29.72		6.28		Pass
HE40	MCS0	2	38	5190	Full	18.44	18.02	21.25	29.72		6.28		Pass
HE40	MCS0	2	46	5230	Full	19.22	18.91	22.08	29.72		6.28		Pass
HE80	MCS0	2	42	5210	Full	13.55	13.39	16.48	29.72		6.28		Pass

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	100	5500	Full	19.17	18.55	21.88	23.98		5.02		30	Pass
HE20	MCS0	2	116	5580	Full	19.11	19.31	22.22	23.98		5.02		30	Pass
HE20	MCS0	2	140	5700	Full	19.15	19.18	22.18	23.98		5.02		30	Pass
HE40	MCS0	2	102	5510	Full	18.54	17.77	21.18	23.98		5.02		30	Pass
HE40	MCS0	2	110	5550	Full	20.55	19.67	23.14	23.98		5.02		30	Pass
HE40	MCS0	2	134	5670	Full	21.00	20.51	23.77	23.98		5.02		30	Pass
HE80	MCS0	2	106	5530	Full	16.32	15.48	18.93	23.98		5.02		30	Pass
HE80	MCS0	2	122	5610	Full	20.66	20.53	23.61	23.98		5.02		30	Pass

FCC U-NII-2C straddle channel MIMO														
Mod.	Data Rate	N _{rx}	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	144	5720	Full	19.25	19.23	22.25	23.09		5.02		30	Pass
HE40	MCS0	2	142	5710	Full	20.56	20.58	23.58	23.98		5.02		30	Pass
HE80	MCS0	2	138	5690	Full	21.05	20.52	23.80	23.98		5.02		30	Pass

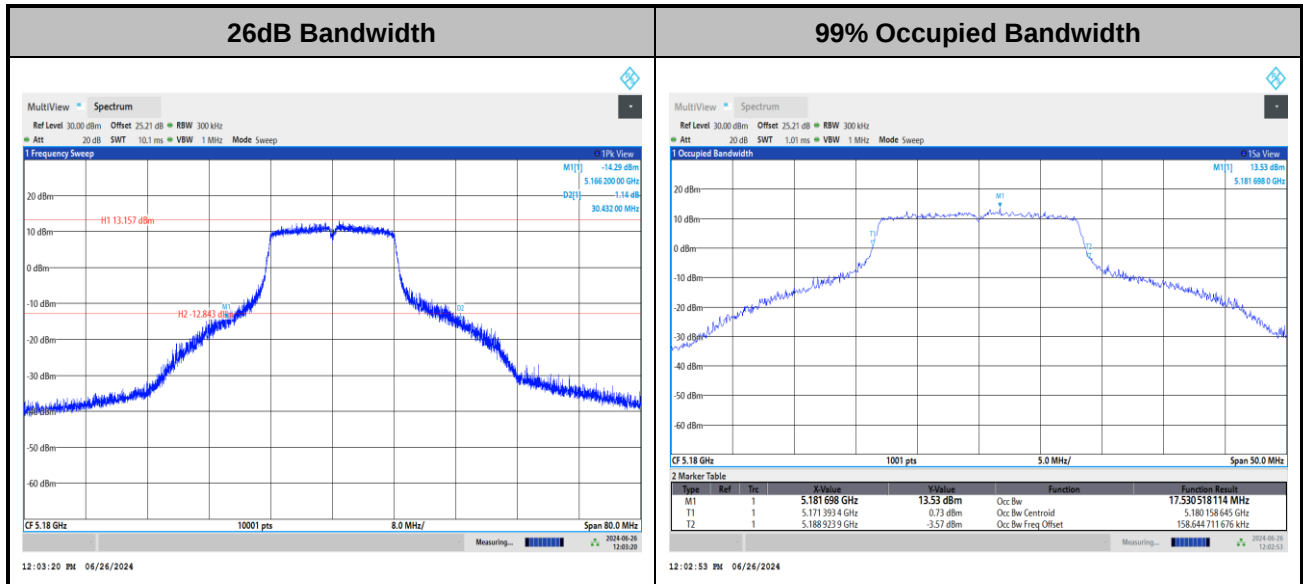
TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	52	5260	Full	19.03	19.25	22.15	23.98		5.61		30	Pass
HE20	MCS0	2	60	5300	Full	19.33	19.55	22.45	23.98		5.61		30	Pass
HE20	MCS0	2	64	5320	Full	19.00	18.91	21.97	23.98		5.61		30	Pass
HE40	MCS0	2	54	5270	Full	18.45	18.61	21.54	23.98		5.61		30	Pass
HE40	MCS0	2	62	5310	Full	16.15	16.38	19.28	23.98		5.61		30	Pass
HE80	MCS0	2	58	5290	Full	13.88	13.86	16.88	23.98		5.61		30	Pass

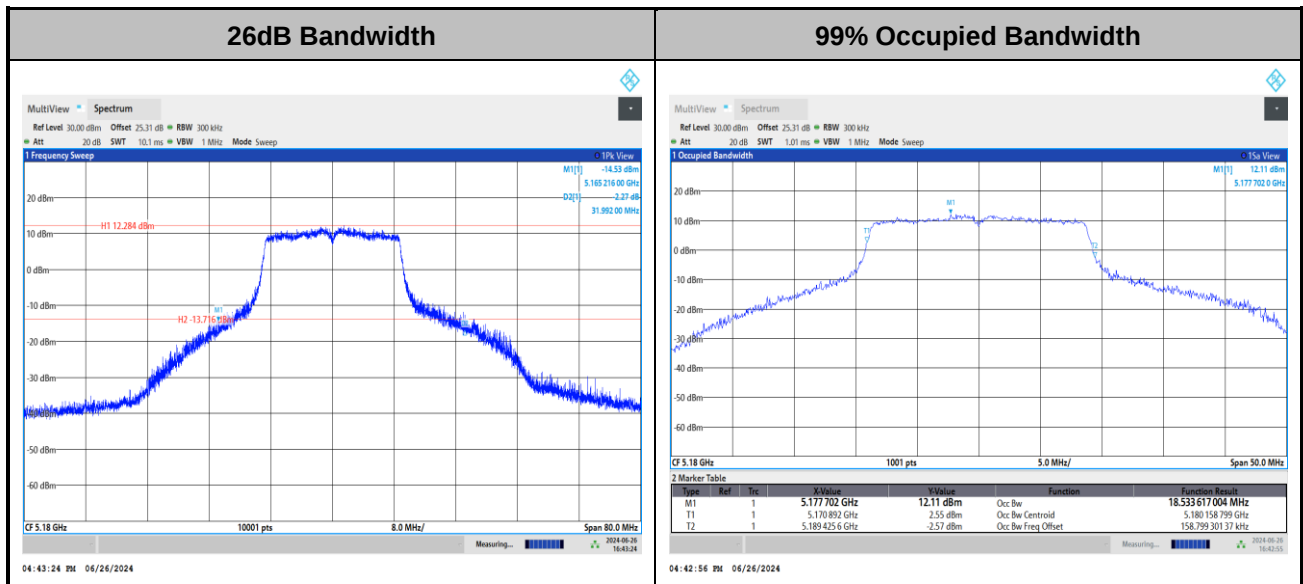
**Test Result of 26dB & 99% Occupied Bandwidth**

MIMO <Ant. 1+2>

<802.11a>

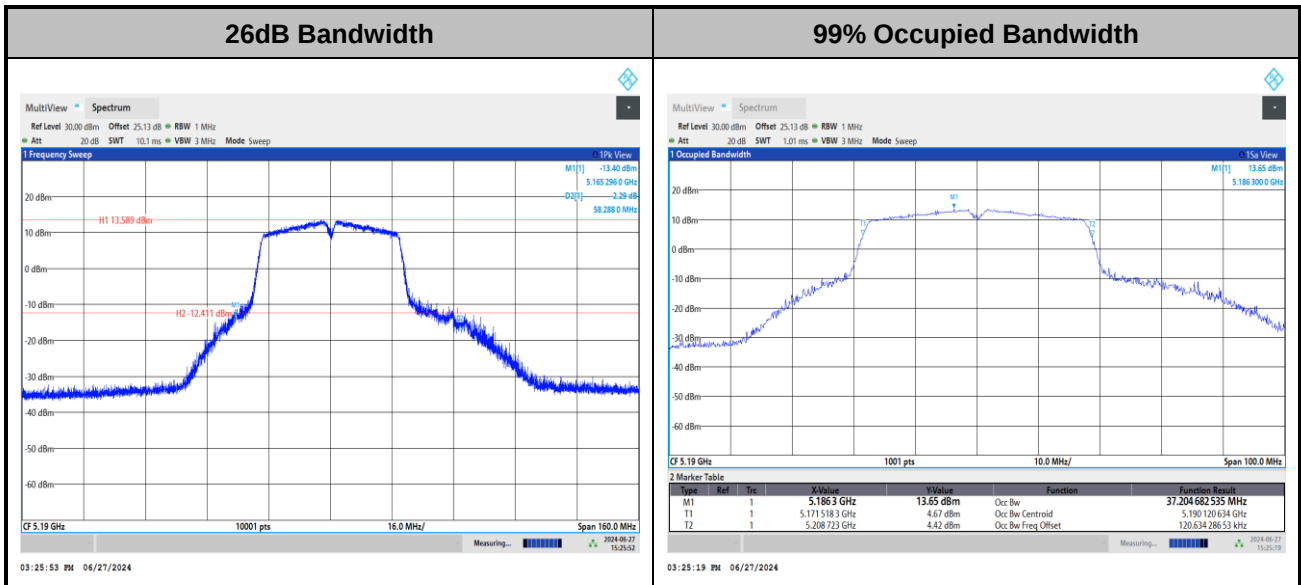
**Note:** The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ac VHT20>

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

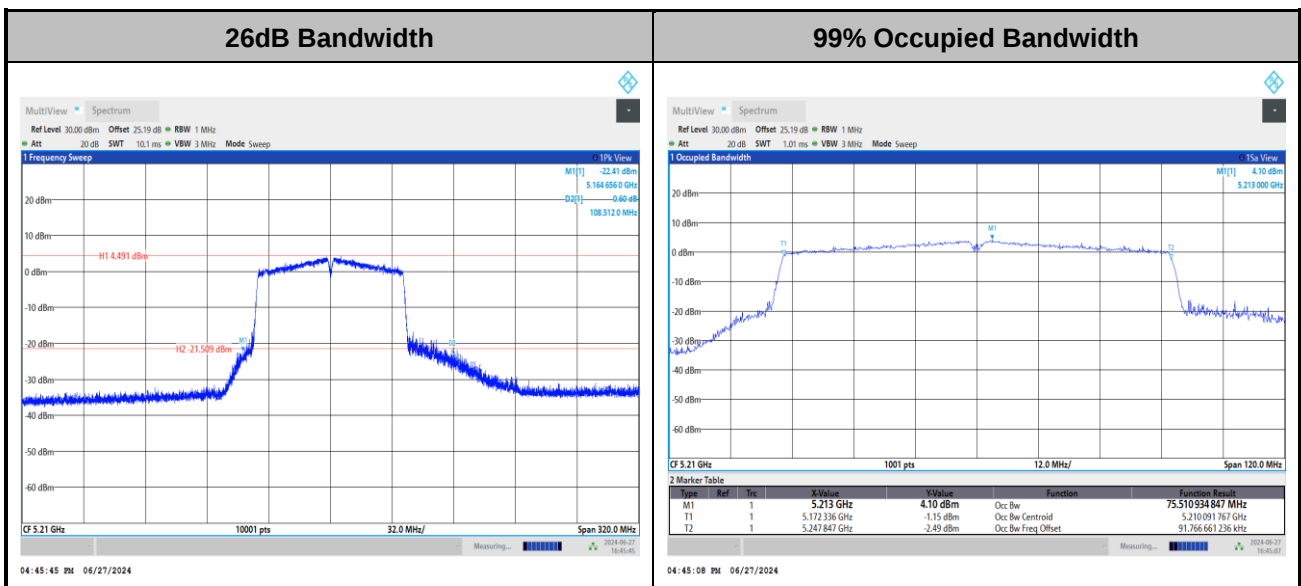


<802.11ac VHT40>



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

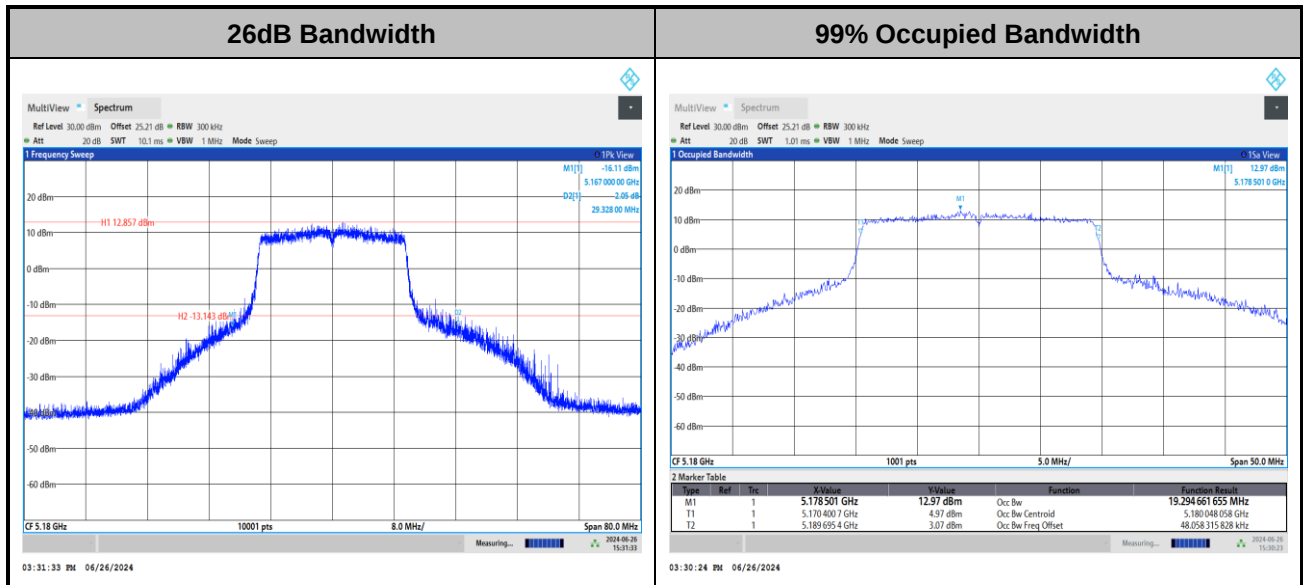
<802.11ac VHT80>



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

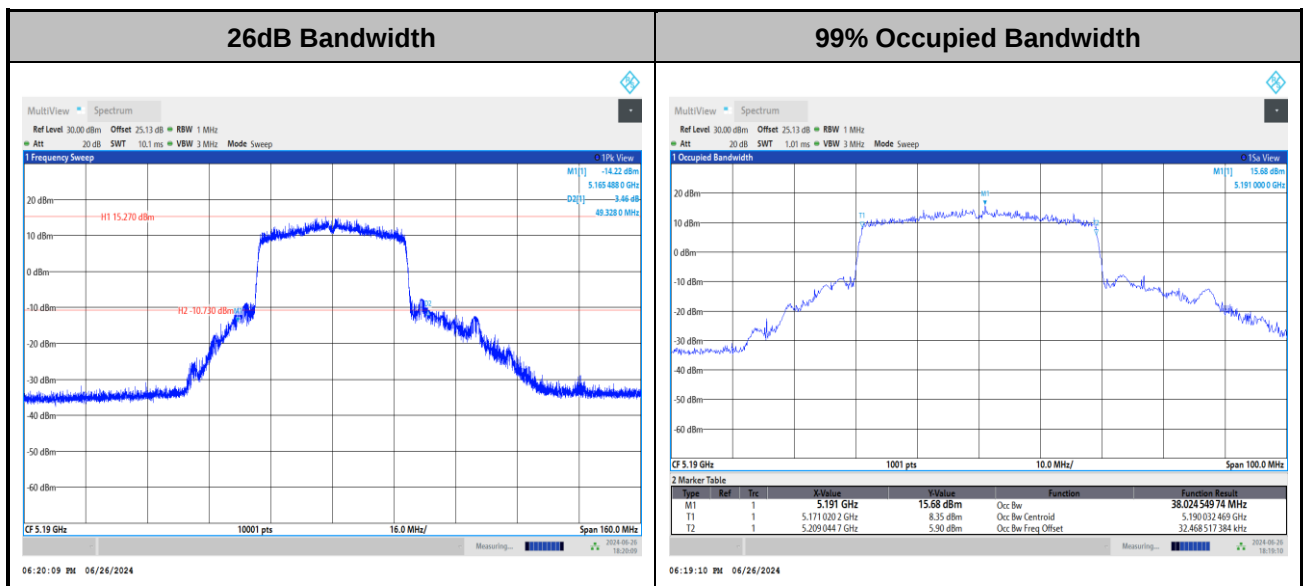


<802.11ax HE20>



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

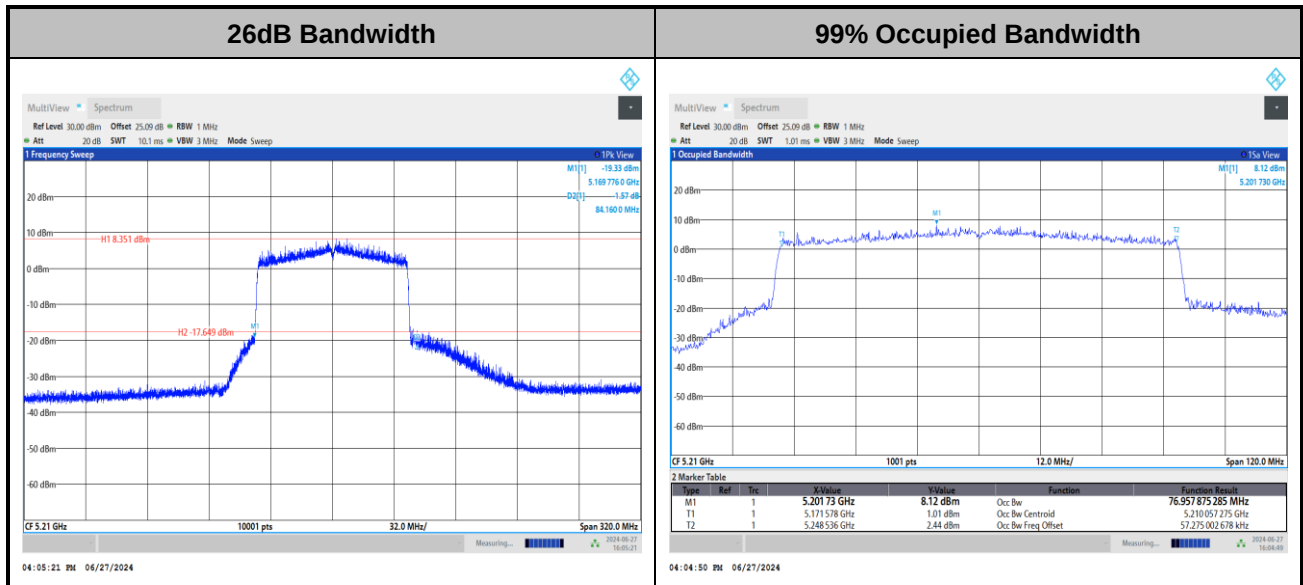
<802.11ax HE40>



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



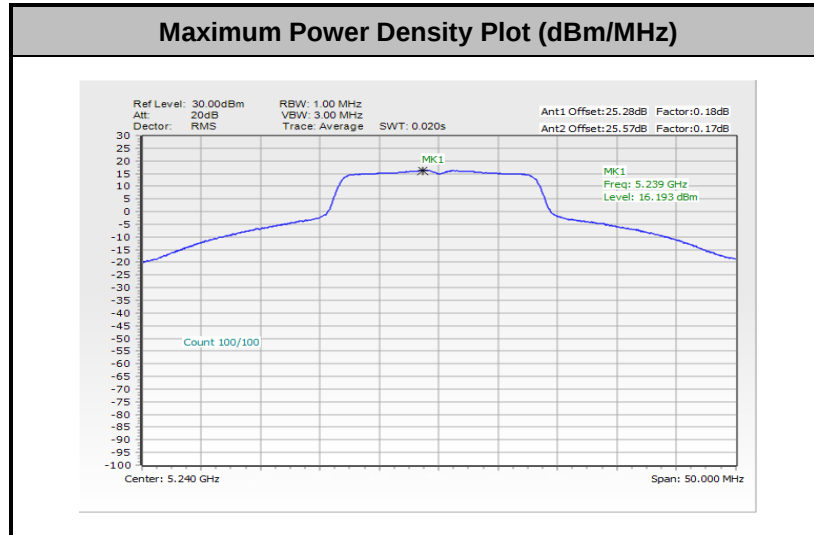
<802.11ax HE80>



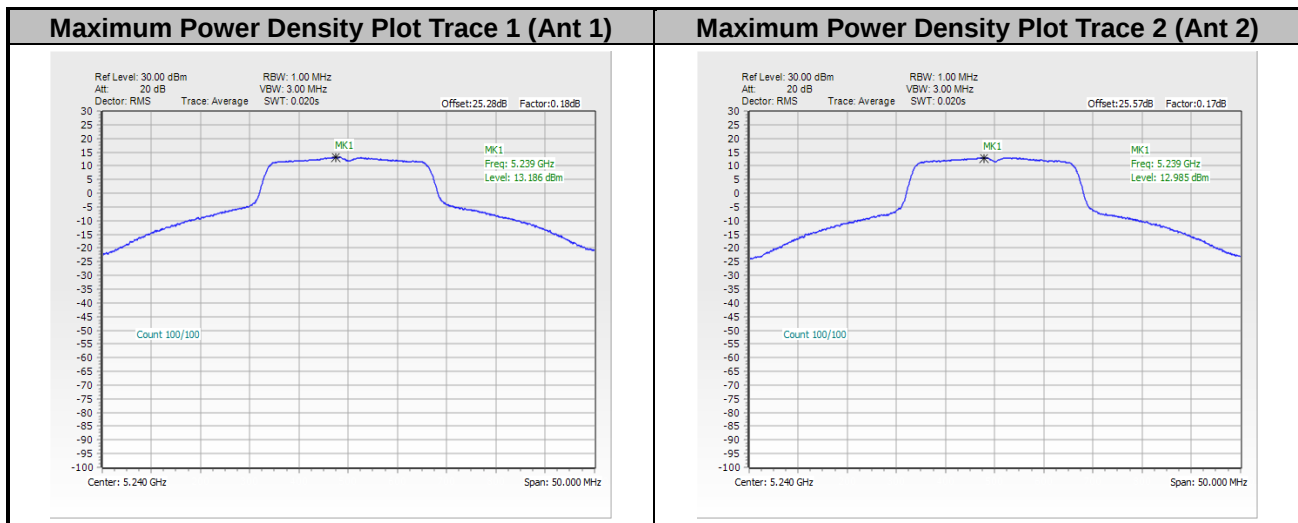
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

**Test Result of Power Spectral Density**

<802.11a>

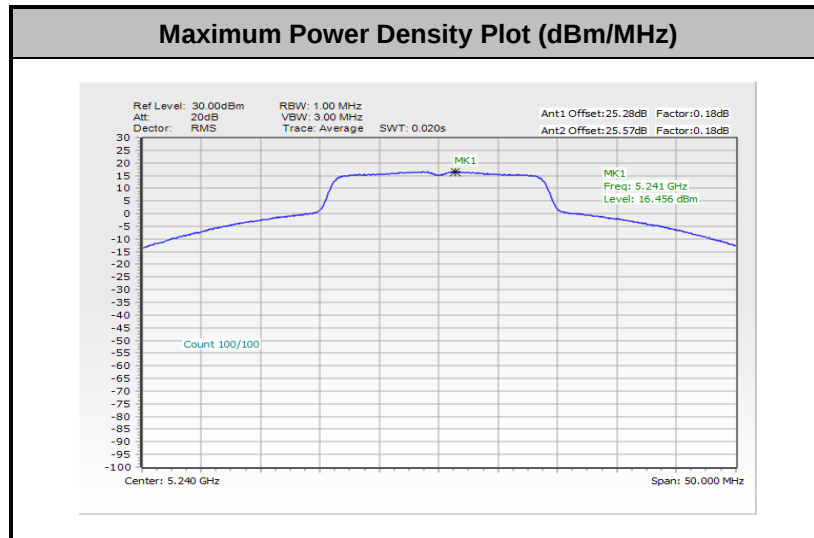


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

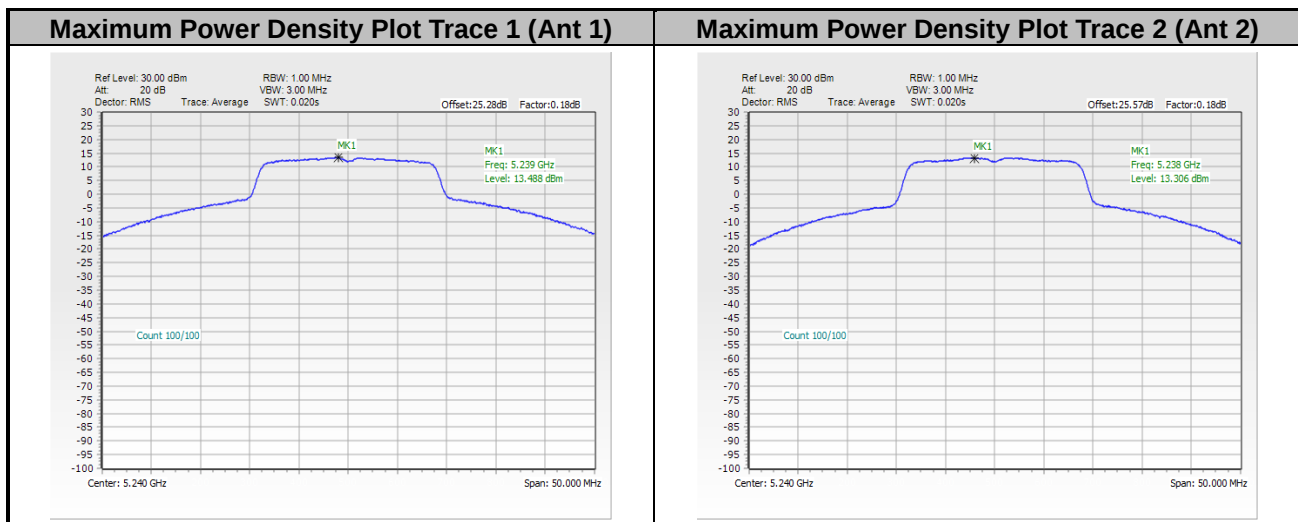


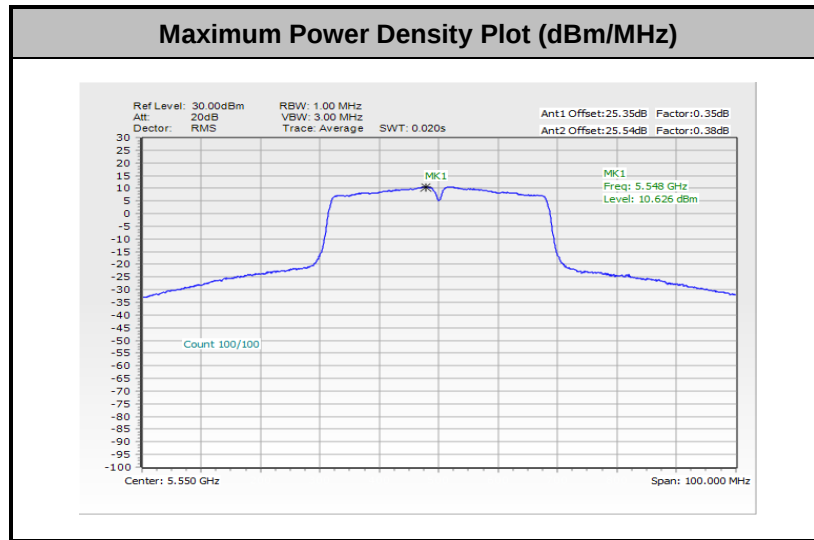


<802.11ac VHT20>

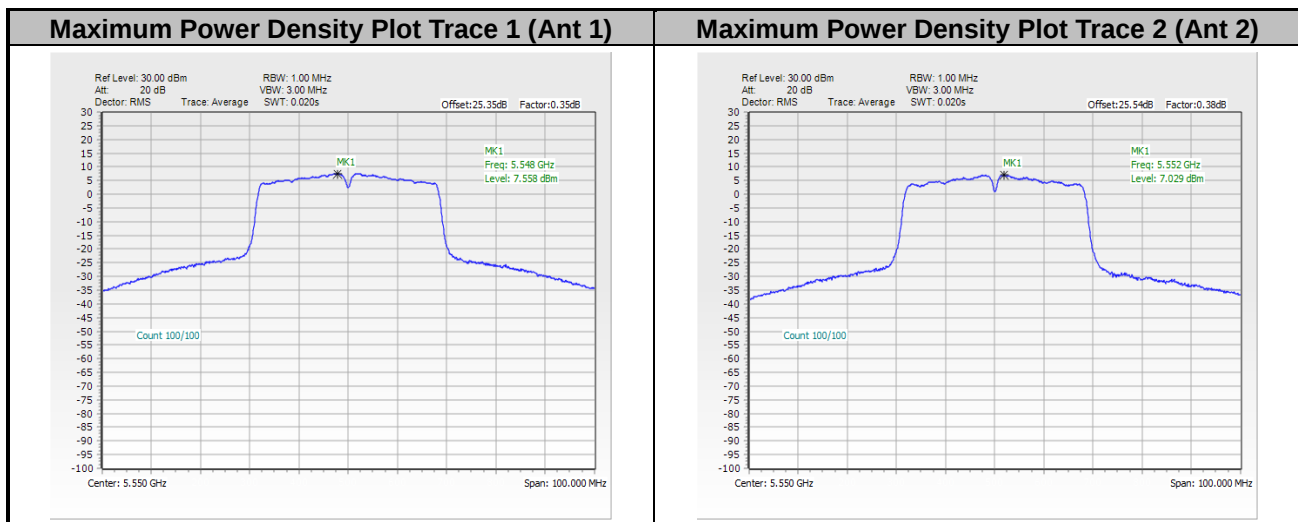


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.



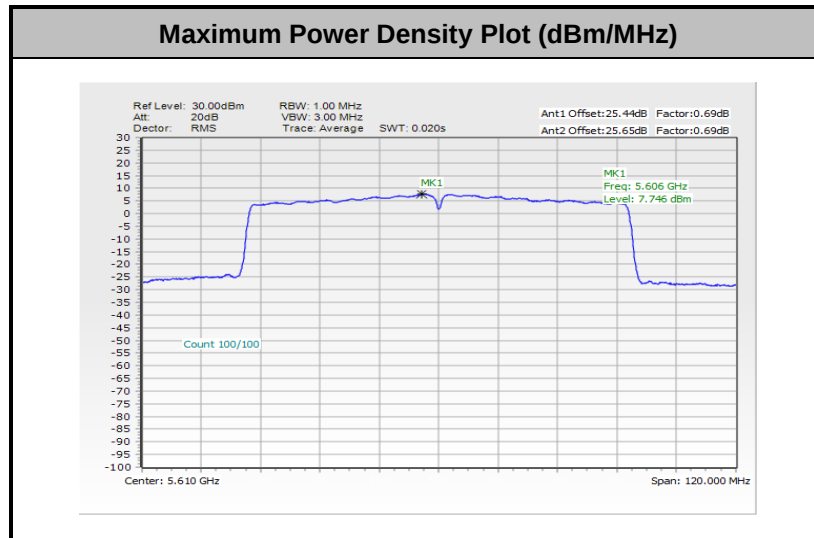
<802.11ac VHT40>


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

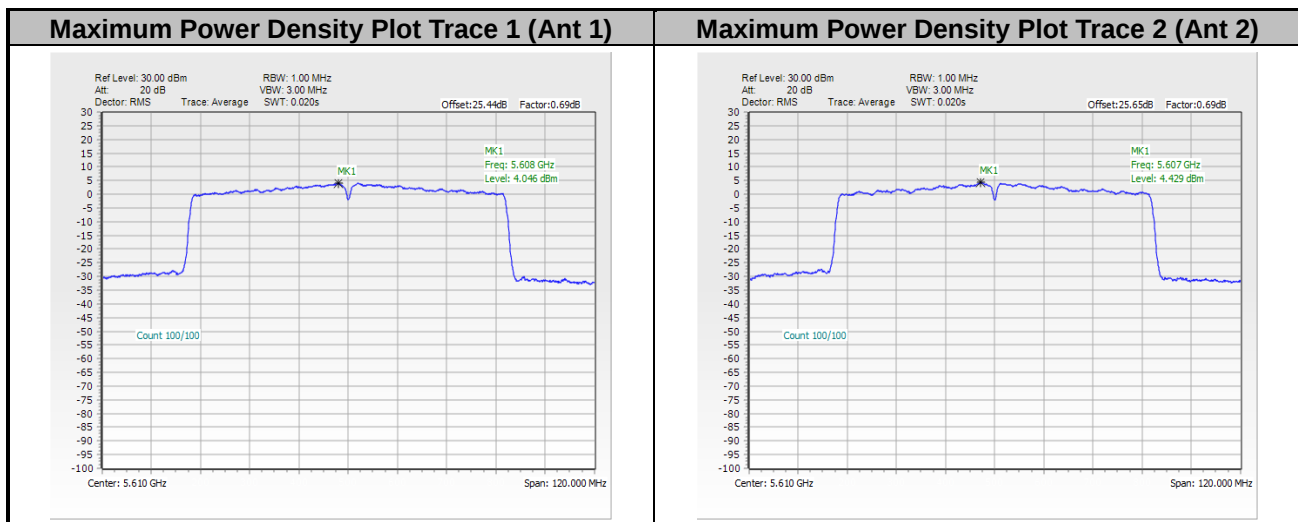




<802.11ac VHT80>

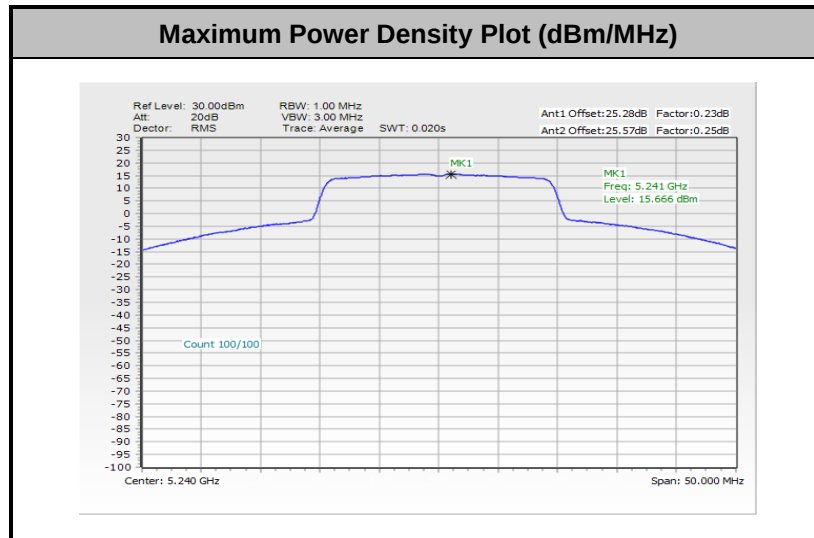


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

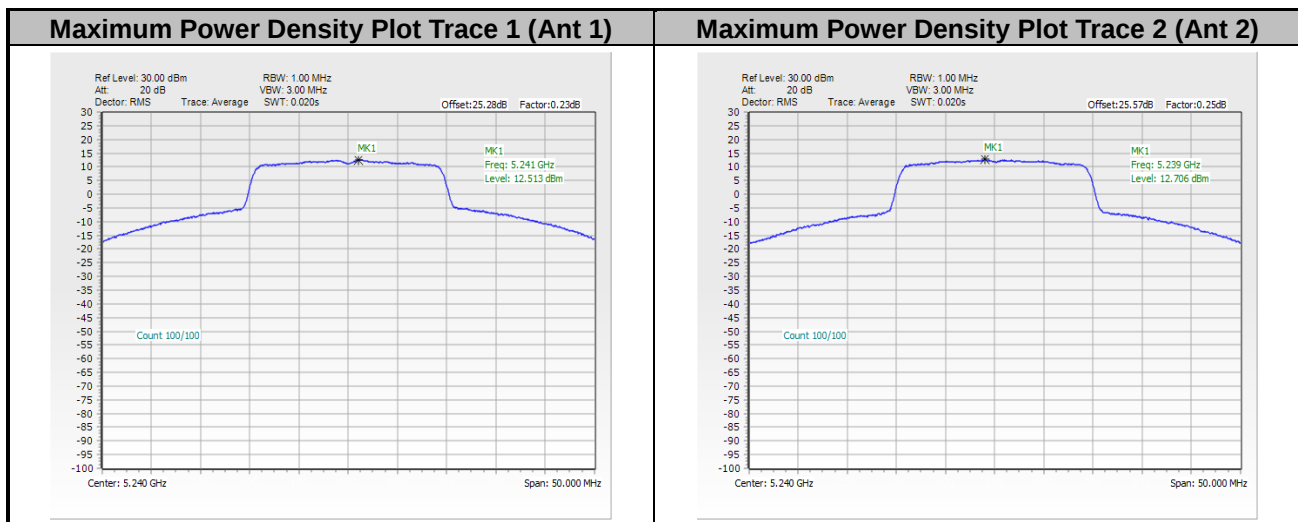




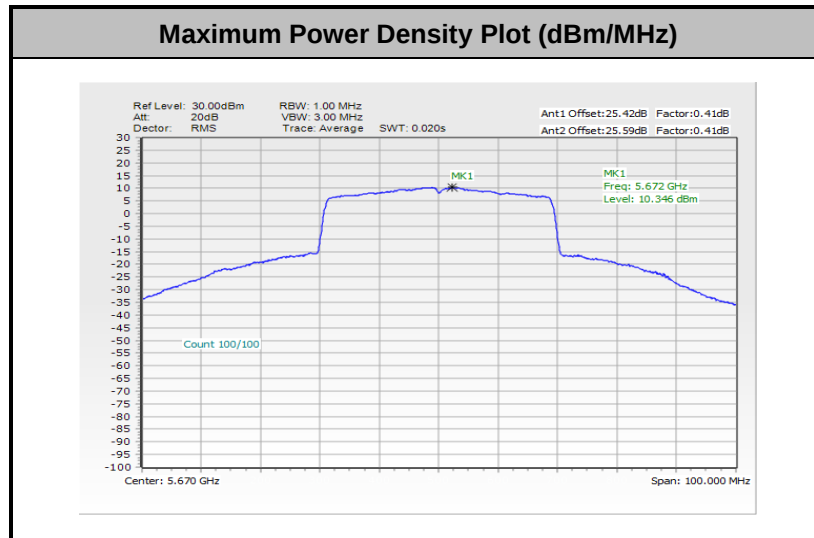
<802.11ax HE20>



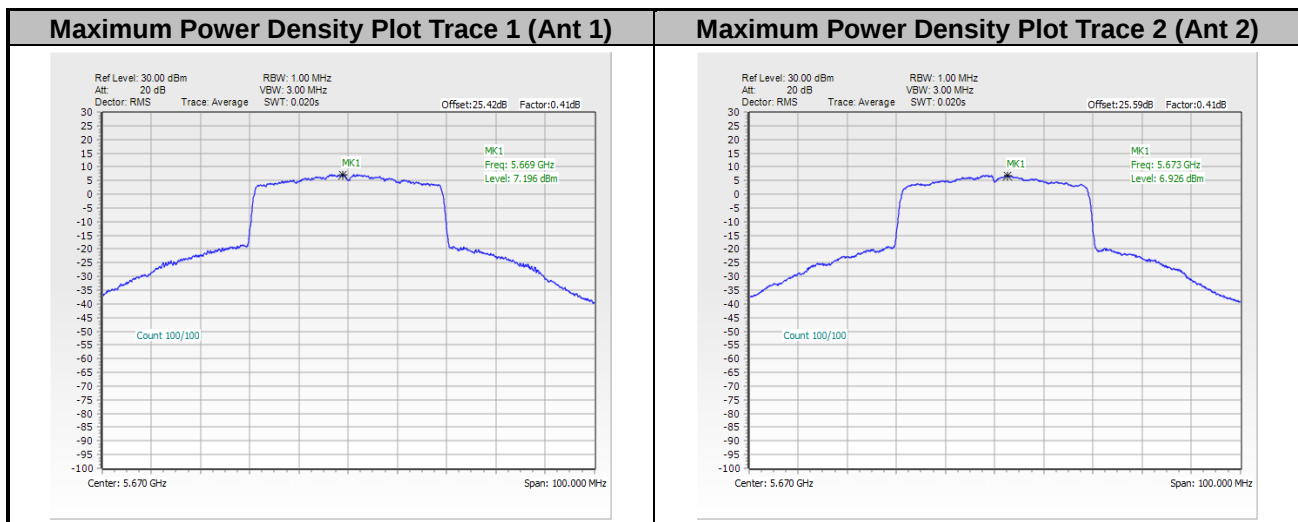
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.



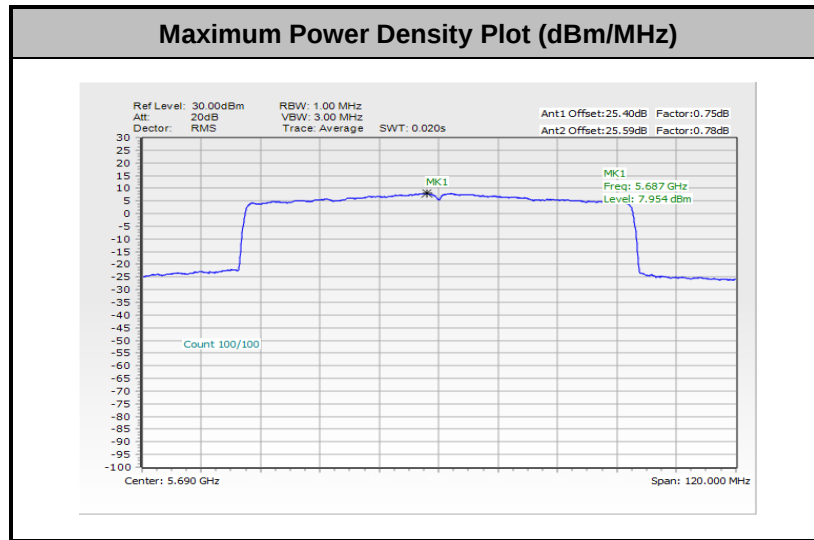
<802.11ax HE40>



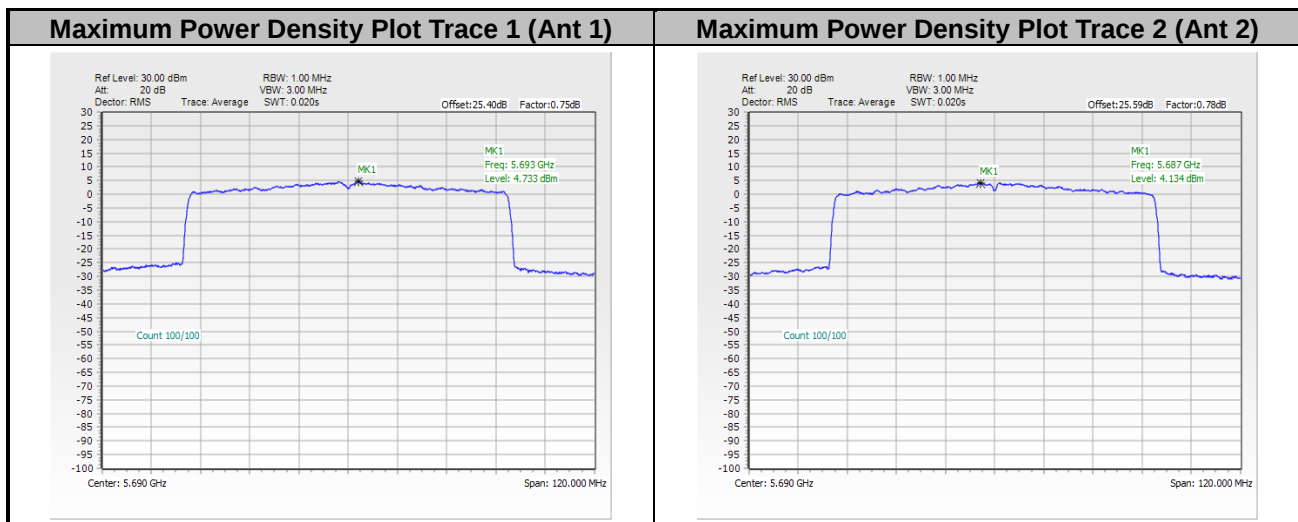
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.



<802.11ax HE80>



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





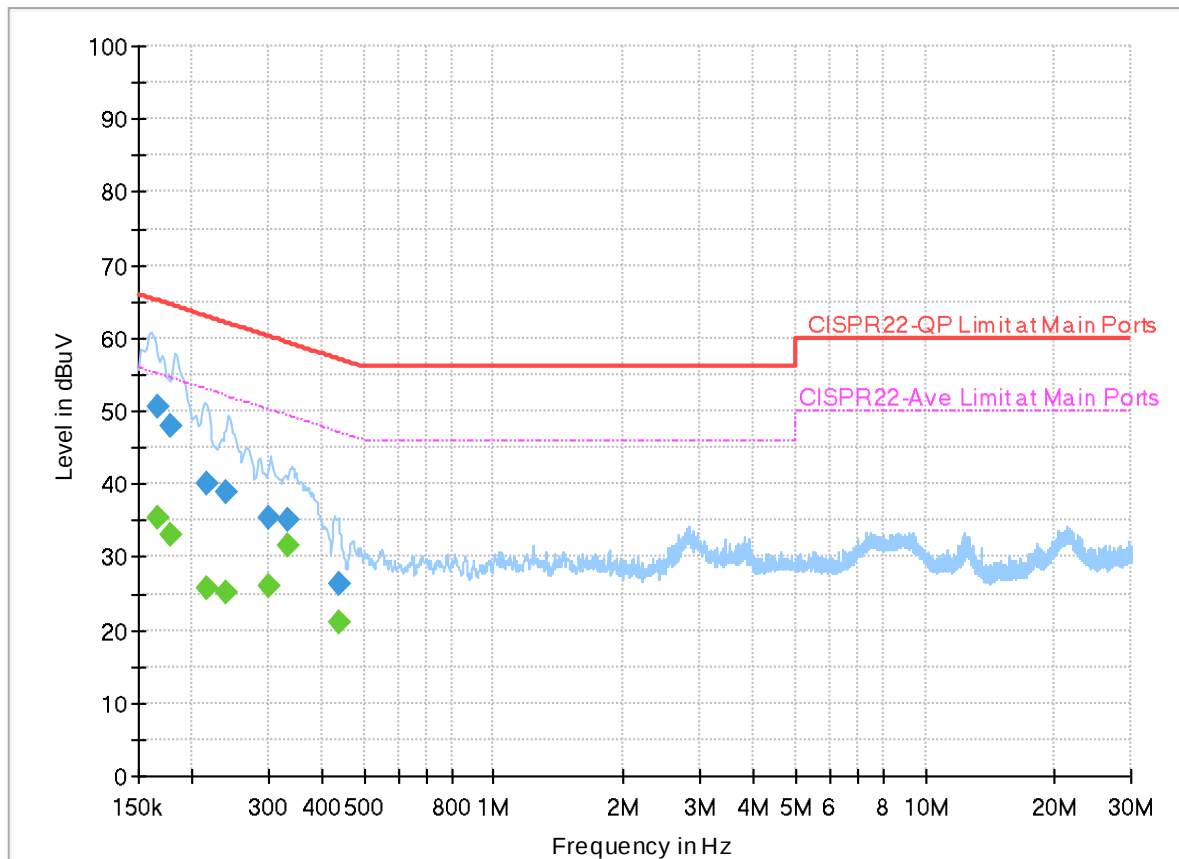
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	Temperature :	22.3~25.7℃
		Relative Humidity :	42.5~48.6%

EUT Information

Report NO : 450904
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



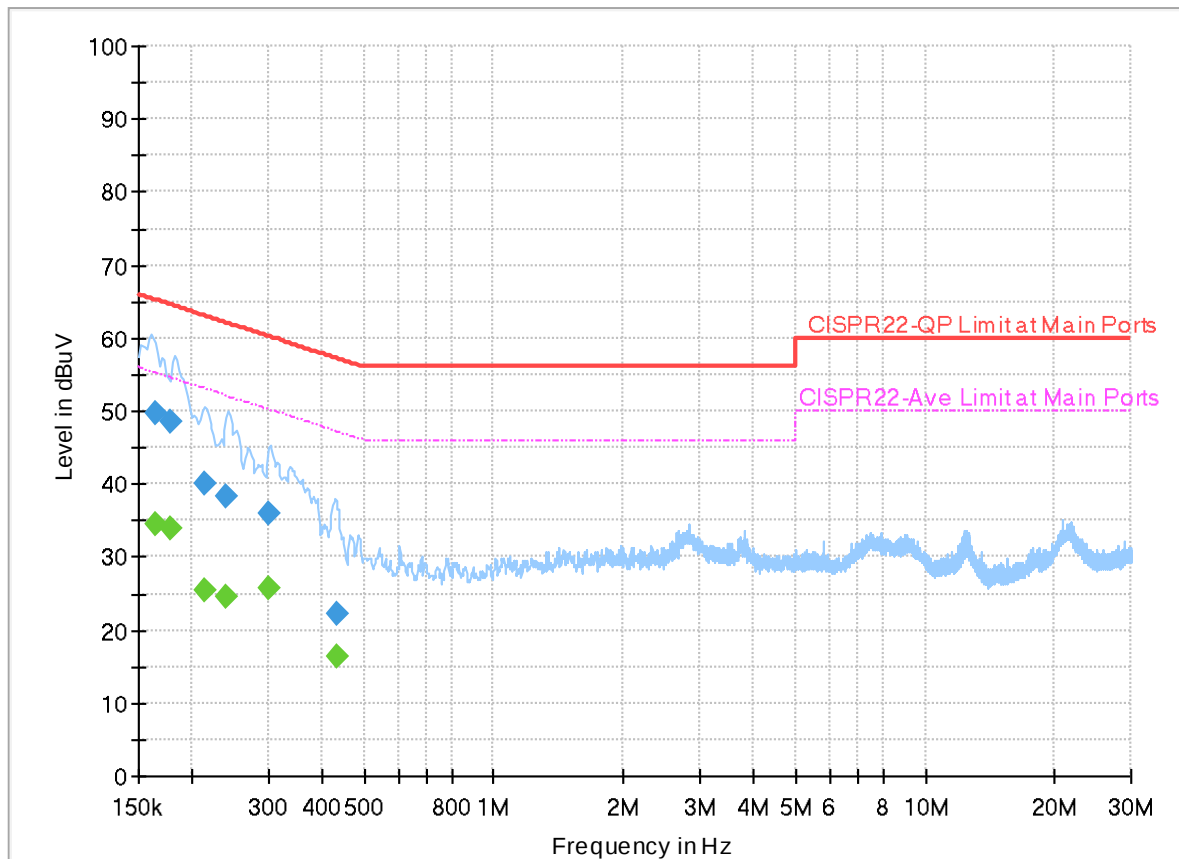
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.165750	---	35.26	55.17	19.91	L1	OFF	19.9
0.165750	50.48	---	65.17	14.69	L1	OFF	19.9
0.178260	---	33.08	54.57	21.49	L1	OFF	19.9
0.178260	47.88	---	64.57	16.69	L1	OFF	19.9
0.216150	---	25.85	52.97	27.12	L1	OFF	19.9
0.216150	40.00	---	62.97	22.97	L1	OFF	19.9
0.238020	---	25.20	52.17	26.97	L1	OFF	19.9
0.238020	38.86	---	62.17	23.31	L1	OFF	19.9
0.300750	---	25.88	50.22	24.34	L1	OFF	19.9
0.300750	35.35	---	60.22	24.87	L1	OFF	19.9
0.334590	---	31.45	49.34	17.89	L1	OFF	19.9
0.334590	35.07	---	59.34	24.27	L1	OFF	19.9
0.440070	---	20.97	47.06	26.09	L1	OFF	19.9
0.440070	26.27	---	57.06	30.79	L1	OFF	19.9

EUT Information

Report NO : 450904
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)
0.163860	---	34.47	55.27	20.80	N	OFF	19.9
0.163860	49.81	---	65.27	15.46	N	OFF	19.9
0.177000	---	33.85	54.63	20.78	N	OFF	19.9
0.177000	48.39	---	64.63	16.24	N	OFF	19.9
0.214260	---	25.44	53.04	27.60	N	OFF	19.9
0.214260	40.19	---	63.04	22.85	N	OFF	19.9
0.239730	---	24.47	52.11	27.64	N	OFF	19.9
0.239730	38.28	---	62.11	23.83	N	OFF	19.9
0.300750	---	25.60	50.22	24.62	N	OFF	19.9
0.300750	35.85	---	60.22	24.37	N	OFF	19.9
0.433500	---	16.24	47.19	30.95	N	OFF	19.9
0.433500	22.09	---	57.19	35.10	N	OFF	19.9



Appendix C. Radiated Spurious Emission

Test Engineer :	Rain Lee, Jacky Hong, and Mancy Chou	Temperature :	20~26°C
		Relative Humidity :	40~65%

MIMO<Ant. 1+2>

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5149.76	56.75	-17.25	74	53.61	33.2	7	37.06	400	81	P	H
		5150	49.77	-4.23	54	46.63	33.2	7	37.06	400	81	A	H
	*	5180	111.79	-	-	108.58	33.2	7.05	37.04	400	81	P	H
	*	5180	105.63	-	-	102.42	33.2	7.05	37.04	400	81	A	H
													H
		5148.98	60.51	-13.49	74	57.37	33.2	7	37.06	400	136	P	V
		5148.98	52.77	-1.23	54	49.63	33.2	7	37.06	400	136	A	V
	*	5180	117.69	-	-	114.48	33.2	7.05	37.04	400	136	P	V
	*	5180	110.81	-	-	107.6	33.2	7.05	37.04	400	136	A	V
													V
802.11a CH 44 5220MHz		5146.38	61.91	-12.09	74	58.78	33.19	7	37.06	203	233	P	H
		5150	50.37	-3.63	54	47.23	33.2	7	37.06	203	233	A	H
	*	5220	114.31	-	-	111.05	33.2	7.07	37.01	203	233	P	H
	*	5220	108.93	-	-	105.67	33.2	7.07	37.01	203	233	A	H
		5386.36	53.59	-20.41	74	50.48	33	7.01	36.9	203	233	P	H
		5381.04	45.73	-8.27	54	42.61	33	7.02	36.9	203	233	A	H
		5139.1	61.28	-12.72	74	58.18	33.18	6.99	37.07	400	183	P	V
		5148.46	53.37	-0.63	54	50.23	33.2	7	37.06	400	183	A	V
	*	5220	119.57	-	-	116.31	33.2	7.07	37.01	400	183	P	V
	*	5220	114.43	-	-	111.17	33.2	7.07	37.01	400	183	A	V
		5378.8	57.3	-16.7	74	54.18	33	7.02	36.9	400	183	P	V
		5379.36	50.55	-3.45	54	47.43	33	7.02	36.9	400	183	A	V



802.11a CH 48 5240MHz		5126.36	58.26	-15.74	74	55.21	33.15	6.97	37.07	201	232	P	H
		5081.12	48.54	-5.46	54	45.6	33.14	6.9	37.1	201	232	A	H
	*	5240	115.18	-	-	111.91	33.2	7.07	37	201	232	P	H
	*	5240	109.2	-	-	105.93	33.2	7.07	37	201	232	A	H
		5351.64	54.34	-19.66	74	51.23	33	7.03	36.92	201	232	P	H
		5400.92	45.91	-8.09	54	42.79	33	7.01	36.89	201	232	A	H
		5148.98	61.64	-12.36	74	58.5	33.2	7	37.06	400	183	P	V
		5079.04	51.43	-2.57	54	48.51	33.14	6.89	37.11	400	183	A	V
	*	5240	120.21	-	-	116.94	33.2	7.07	37	400	183	P	V
	*	5240	115.05	-	-	111.78	33.2	7.07	37	400	183	A	V
		5350.8	59.42	-14.58	74	56.31	33	7.03	36.92	400	183	P	V
		5350	50.87	-3.13	54	47.76	33	7.03	36.92	400	183	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. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	54.93	-13.27	68.2	61.32	38.92	11.38	56.69	100	9	P	H
		15540	44.5	-29.5	74	49.06	38.22	13.58	56.36	-	-	P	H
													H
													H
													H
													H
													H
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													H
													H
													H
													H
													H
		10360	53.06	-15.14	68.2	59.45	38.92	11.38	56.69	100	233	P	V
		15540	44.99	-29.01	74	49.55	38.22	13.58	56.36	-	-	P	V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	58.67	-9.53	68.2	64.83	39	11.42	56.58	107	356	P	H
		15660	55.53	-18.47	74	60.43	37.7	13.66	56.26	198	120	P	H
		15660	44.39	-9.61	54	49.29	37.7	13.66	56.26	198	120	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10440	55.98	-12.22	68.2	62.14	39	11.42	56.58	100	109	P	V
		15660	52.83	-21.17	74	57.73	37.7	13.66	56.26	200	349	P	V
		15660	42.96	-11.04	54	47.86	37.7	13.66	56.26	200	349	A	V
													V
													V
													V
													V
													V
													V
													V
													V

[illegible]



Band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 36 5180MHz		5149.24	56.77	-17.23	74	53.63	33.2	7	37.06	400	78	P	H
		5149.24	48.86	-5.14	54	45.72	33.2	7	37.06	400	78	A	H
	*	5180	109.37	-	-	106.16	33.2	7.05	37.04	400	78	P	H
	*	5180	103.92	-	-	100.71	33.2	7.05	37.04	400	78	A	H
													H
													H
		5150	61.7	-12.3	74	58.56	33.2	7	37.06	400	140	P	V
		5150	52.93	-1.07	54	49.79	33.2	7	37.06	400	140	A	V
	*	5180	114.66	-	-	111.45	33.2	7.05	37.04	400	140	P	V
	*	5180	108.85	-	-	105.64	33.2	7.05	37.04	400	140	A	V
													V
													V
802.11ac VHT20 CH 44 5220MHz		5138.06	57.26	-16.74	74	54.17	33.18	6.98	37.07	195	232	P	H
		5147.42	49.58	-4.42	54	46.45	33.19	7	37.06	195	232	A	H
	*	5220	112.17	-	-	108.91	33.2	7.07	37.01	195	232	P	H
	*	5220	106.96	-	-	103.7	33.2	7.07	37.01	195	232	A	H
		5372.36	53.28	-20.72	74	50.17	33	7.02	36.91	195	232	P	H
		5377.96	45.77	-8.23	54	42.65	33	7.02	36.9	195	232	A	H
		5149.76	64.04	-9.96	74	60.9	33.2	7	37.06	397	178	P	V
		5140.14	53.39	-0.61	54	50.28	33.18	6.99	37.06	397	178	A	V
	*	5220	117.25	-	-	113.99	33.2	7.07	37.01	397	178	P	V
	*	5220	111.5	-	-	108.24	33.2	7.07	37.01	397	178	A	V
		5387.76	57.13	-16.87	74	54.02	33	7.01	36.9	397	178	P	V
		5382.44	51.28	-2.72	54	48.16	33	7.02	36.9	397	178	A	V



802.11ac VHT20 CH 48 5240MHz		5150	57.37	-16.63	74	54.23	33.2	7	37.06	200	232	P	H
		5080.6	49.08	-4.92	54	46.16	33.14	6.89	37.11	200	232	A	H
	*	5240	115.26	-	-	111.99	33.2	7.07	37	200	232	P	H
	*	5240	109.51	-	-	106.24	33.2	7.07	37	200	232	A	H
		5360.88	57.93	-16.07	74	54.82	33	7.02	36.91	200	232	P	H
		5353.6	46.52	-7.48	54	43.41	33	7.03	36.92	200	232	A	H
		5144.82	61.96	-12.04	74	58.84	33.19	6.99	37.06	400	179	P	V
		5082.42	52.05	-1.95	54	49.11	33.14	6.9	37.1	400	179	A	V
	*	5240	120.33	-	-	117.06	33.2	7.07	37	400	179	P	V
	*	5240	115.27	-	-	112	33.2	7.07	37	400	179	A	V
		5357.24	60.85	-13.15	74	57.75	33	7.02	36.92	400	179	P	V
		5352.48	52.32	-1.68	54	49.21	33	7.03	36.92	400	179	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 36 5180MHz		10360	54.23	-13.97	68.2	60.62	38.92	11.38	56.69	100	4	P	H
		15540	44.6	-29.4	74	49.16	38.22	13.58	56.36	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10360	52.49	-15.71	68.2	58.88	38.92	11.38	56.69	100	240	P	V
		15540	44.82	-29.18	74	49.38	38.22	13.58	56.36	-	-	P	V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 44 5220MHz		10440	57.62	-10.58	68.2	63.78	39	11.42	56.58	100	355	P	H
		15660	54.66	-19.34	74	59.56	37.7	13.66	56.26	198	121	P	H
		15660	41.87	-12.13	54	46.77	37.7	13.66	56.26	198	121	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10440	54.99	-13.21	68.2	61.15	39	11.42	56.58	100	230	P	V
		15660	53.41	-20.59	74	58.31	37.7	13.66	56.26	100	86	P	V
		15660	41.72	-12.28	54	46.62	37.7	13.66	56.26	100	86	A	V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 48 5240MHz		10480	57.64	-10.56	68.2	63.78	38.94	11.44	56.52	100	353	P	H
		15720	57.57	-16.43	74	62.38	37.7	13.69	56.2	198	119	P	H
		15720	46.85	-7.15	54	51.66	37.7	13.69	56.2	198	119	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10480	56.33	-11.87	68.2	62.47	38.94	11.44	56.52	100	228	P	V
		15720	57.21	-16.79	74	62.02	37.7	13.69	56.2	100	86	P	V
		15720	47.39	-6.61	54	52.2	37.7	13.69	56.2	100	86	A	V
													V
													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 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT40 CH 38 5190MHz		5146.64	59.59	-14.41	74	56.46	33.19	7	37.06	196	232	P	H
		5148.2	49.1	-4.9	54	45.96	33.2	7	37.06	196	232	A	H
	*	5190	106.93	-	-	103.7	33.2	7.06	37.03	196	232	P	H
	*	5190	101.33	-	-	98.1	33.2	7.06	37.03	196	232	A	H
		5368.16	47.37	-26.63	74	44.26	33	7.02	36.91	196	232	P	H
		5350.8	39.93	-14.07	54	36.82	33	7.03	36.92	196	232	A	H
		5146.38	60.87	-13.13	74	57.74	33.19	7	37.06	199	203	P	V
		5150	52.37	-1.63	54	49.23	33.2	7	37.06	199	203	A	V
	*	5190	110.34	-	-	107.11	33.2	7.06	37.03	199	203	P	V
	*	5190	104.74	-	-	101.51	33.2	7.06	37.03	199	203	A	V
		5362.56	51.43	-22.57	74	48.32	33	7.02	36.91	199	203	P	V
		5352.48	44.29	-9.71	54	41.18	33	7.03	36.92	199	203	A	V
802.11ac VHT40 CH 46 5230MHz		5147.94	61.52	-12.48	74	58.38	33.2	7	37.06	201	89	P	H
		5150	48.52	-5.48	54	45.38	33.2	7	37.06	201	89	A	H
	*	5230	107.05	-	-	103.78	33.2	7.07	37	201	89	P	H
	*	5230	102.18	-	-	98.91	33.2	7.07	37	201	89	A	H
		5353.6	50.04	-23.96	74	46.93	33	7.03	36.92	201	89	P	H
		5350.24	41	-13	54	37.89	33	7.03	36.92	201	89	A	H
		5150	66.63	-7.37	74	63.49	33.2	7	37.06	393	181	P	V
		5150	53.44	-0.56	54	50.3	33.2	7	37.06	393	181	A	V
	*	5230	110.47	-	-	107.2	33.2	7.07	37	393	181	P	V
	*	5230	105.7	-	-	102.43	33.2	7.07	37	393	181	A	V
		5352.48	55.04	-18.96	74	51.93	33	7.03	36.92	393	181	P	V
		5392.24	46.38	-7.62	54	43.26	33	7.01	36.89	393	181	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT40 CH 38 5190MHz		10380	48.44	-19.76	68.2	54.76	38.96	11.39	56.67	-	-	P	H
		15570	44.35	-29.65	74	48.93	38.16	13.6	56.34	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10380	47.19	-21.01	68.2	53.51	38.96	11.39	56.67	-	-	P	V
		15570	45.06	-28.94	74	49.64	38.16	13.6	56.34	-	-	P	V
													V
													V
													V
													V
													V
													V



TEL : 886-3-327-0868
FAX : 886-3-327-0855



Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5145.6	55.46	-18.54	74	52.33	33.19	7	37.06	400	203	P	H
		5149.76	48.18	-5.82	54	45.04	33.2	7	37.06	400	203	A	H
	*	5210	96.67	-	-	93.41	33.2	7.08	37.02	400	203	P	H
	*	5210	91.9	-	-	88.64	33.2	7.08	37.02	400	203	A	H
		5451.32	50.79	-23.21	74	47.53	33.1	7.01	36.85	400	203	P	H
		5459.72	42.67	-11.33	54	39.41	33.1	7.01	36.85	400	203	A	H
		5150	60.25	-13.75	74	57.11	33.2	7	37.06	172	154	P	V
		5149.5	53.32	-0.68	54	50.18	33.2	7	37.06	172	154	A	V
	*	5210	104.41	-	-	101.15	33.2	7.08	37.02	172	154	P	V
	*	5210	99.09	-	-	95.83	33.2	7.08	37.02	172	154	A	V
		5436.76	52.33	-21.67	74	49.11	33.07	7.01	36.86	172	154	P	V
		5358.08	43.58	-10.42	54	40.48	33	7.02	36.92	172	154	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11ac VHT80 (Harmonic @ 3m)

TEL : 886-3-327-0868
FAX : 886-3-327-0855



Band 1 - 5150~5250MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE20 Full CH 36 5180MHz		5146.38	61.45	-12.55	74	58.32	33.19	7	37.06	189	137	P	H
		5150	50.46	-3.54	54	47.32	33.2	7	37.06	189	137	A	H
	*	5180	112.78	-	-	109.57	33.2	7.05	37.04	189	137	P	H
	*	5180	106.31	-	-	103.1	33.2	7.05	37.04	189	137	A	H
													H
													H
		5147.16	63.66	-10.34	74	60.53	33.19	7	37.06	392	188	P	V
		5149.24	53.48	-0.52	54	50.34	33.2	7	37.06	392	188	P	V
	*	5180	117.79	-	-	114.58	33.2	7.05	37.04	392	188	P	V
	*	5180	111.36	-	-	108.15	33.2	7.05	37.04	392	188	A	V
													V
													V
802.11ax HE20 Full CH 40 5200MHz		5149.24	61.43	-12.57	74	58.29	33.2	7	37.06	184	121	P	H
		5149.5	49.81	-4.19	54	46.67	33.2	7	37.06	184	121	A	H
	*	5200	114.55	-	-	111.29	33.2	7.08	37.02	184	121	P	H
	*	5200	106.97	-	-	103.71	33.2	7.08	37.02	184	121	A	H
													H
													H
		5149.76	63.3	-10.7	74	60.16	33.2	7	37.06	400	148	P	V
		5149.76	52.45	-1.55	54	49.31	33.2	7	37.06	400	148	P	V
	*	5200	116.39	-	-	113.13	33.2	7.08	37.02	400	148	P	V
	*	5200	109.79	-	-	106.53	33.2	7.08	37.02	400	148	A	V
													V
													V



802.11ax HE20 Full CH 44 5220MHz		5150	57.23	-16.77	74	54.09	33.2	7	37.06	174	91	P	H
		5150	49.06	-4.94	54	45.92	33.2	7	37.06	174	91	A	H
	*	5220	112.14	-	-	108.88	33.2	7.07	37.01	174	91	P	H
	*	5220	105.59	-	-	102.33	33.2	7.07	37.01	174	91	A	H
		5374.88	53.08	-20.92	74	49.97	33	7.02	36.91	174	91	P	H
		5380.48	44.01	-9.99	54	40.89	33	7.02	36.9	174	91	A	H
		5148.2	61.7	-12.3	74	58.56	33.2	7	37.06	177	202	P	V
		5150	53.11	-0.89	54	49.97	33.2	7	37.06	177	202	A	V
	*	5220	118.28	-	-	115.02	33.2	7.07	37.01	177	202	P	V
	*	5220	110.96	-	-	107.7	33.2	7.07	37.01	177	202	A	V
		5386.92	56.03	-17.97	74	52.92	33	7.01	36.9	177	202	P	V
		5377.96	48.46	-5.54	54	45.34	33	7.02	36.9	177	202	A	V
802.11ax HE20 Full CH 48 5240MHz		5082.16	56.53	-17.47	74	53.59	33.14	6.9	37.1	203	90	P	H
		5150	47.95	-6.05	54	44.81	33.2	7	37.06	203	90	A	H
	*	5240	113.66	-	-	110.39	33.2	7.07	37	203	90	P	H
	*	5240	107.45	-	-	104.18	33.2	7.07	37	203	90	A	H
		5351.36	53.25	-20.75	74	50.14	33	7.03	36.92	203	90	P	H
		5397.56	44.63	-9.37	54	41.51	33	7.01	36.89	203	90	A	H
		5150	62.26	-11.74	74	59.12	33.2	7	37.06	190	204	P	V
		5150	50.48	-3.52	54	47.34	33.2	7	37.06	190	204	A	V
	*	5240	117.82	-	-	114.55	33.2	7.07	37	190	204	P	V
	*	5240	111.76	-	-	108.49	33.2	7.07	37	190	204	A	V
		5350.24	60.27	-13.73	74	57.16	33	7.03	36.92	190	204	P	V
		5402.6	49.3	-4.7	54	46.17	33.01	7.01	36.89	190	204	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11ax HE20 Full (Harmonic @ 3m)

TEL : 886-3-327-0868
FAX : 886-3-327-0855

[illegible]



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE20 Full CH 48 5240MHz		10480	57.23	-10.97	68.2	63.37	38.94	11.44	56.52	100	355	P	H
		15720	54.63	-19.37	74	59.44	37.7	13.69	56.2	197	118	P	H
		15720	45.25	-8.75	54	50.06	37.7	13.69	56.2	197	118	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10480	55.02	-13.18	68.2	61.16	38.94	11.44	56.52	100	109	P	V
		15720	54.33	-19.67	74	59.14	37.7	13.69	56.2	192	349	P	V
		15720	43.91	-10.09	54	48.72	37.7	13.69	56.2	192	349	A	V
													V
													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 HE40 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE40 Full CH 38 5190MHz		5146.64	58.65	-15.35	74	55.52	33.19	7	37.06	201	232	P	H
		5148.2	50.34	-3.66	54	47.2	33.2	7	37.06	201	232	A	H
	*	5190	108.59	-	-	105.36	33.2	7.06	37.03	201	232	P	H
	*	5190	102.11	-	-	98.88	33.2	7.06	37.03	201	232	A	H
		5353.6	49.78	-24.22	74	46.67	33	7.03	36.92	201	232	P	H
		5350.52	41.33	-12.67	54	38.22	33	7.03	36.92	201	232	A	H
		5137.54	60.08	-13.92	74	56.99	33.18	6.98	37.07	400	143	P	V
		5150	52.84	-1.16	54	49.7	33.2	7	37.06	400	143	A	V
	*	5190	111.37	-	-	108.14	33.2	7.06	37.03	400	143	P	V
	*	5190	104.78	-	-	101.55	33.2	7.06	37.03	400	143	A	V
		5353.04	51.29	-22.71	74	48.18	33	7.03	36.92	400	143	P	V
		5352.76	44.28	-9.72	54	41.17	33	7.03	36.92	400	143	A	V
802.11ax HE40 Full CH 46 5230MHz		5134.94	58.63	-15.37	74	55.55	33.17	6.98	37.07	212	98	P	H
		5150	47.18	-6.82	54	44.04	33.2	7	37.06	212	98	A	H
	*	5230	107.38	-	-	104.11	33.2	7.07	37	212	98	P	H
	*	5230	100.25	-	-	96.98	33.2	7.07	37	212	98	A	H
		5375.44	50.47	-23.53	74	47.35	33	7.02	36.9	212	98	P	H
		5350	41.37	-12.63	54	38.26	33	7.03	36.92	212	98	A	H
		5134.94	65.19	-8.81	74	62.11	33.17	6.98	37.07	396	179	P	V
		5150	52.5	-1.5	54	49.36	33.2	7	37.06	396	179	A	V
	*	5230	111.78	-	-	108.51	33.2	7.07	37	396	179	P	V
	*	5230	105.81	-	-	102.54	33.2	7.07	37	396	179	A	V
		5395.04	55.12	-18.88	74	52	33	7.01	36.89	396	179	P	V
		5392.24	46.7	-7.3	54	43.58	33	7.01	36.89	396	179	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 HE40 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE40 Full CH 38 5190MHz		10380	50.34	-17.86	68.2	56.66	38.96	11.39	56.67	100	352	P	H
		15570	45.09	-28.91	74	49.67	38.16	13.6	56.34	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10380	47.15	-21.05	68.2	53.47	38.96	11.39	56.67	-	-	P	V
		15570	45.13	-28.87	74	49.71	38.16	13.6	56.34	-	-	P	V
													V
													V
													V
													V
													V
													V
													V



TEL : 886-3-327-0868
FAX : 886-3-327-0855



Band 1 5150~5250MHz

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE80 Full CH 42 5210MHz		5145.86	56.59	-17.41	74	53.46	33.19	7	37.06	201	229	P	H
		5145.6	50.3	-3.7	54	47.17	33.19	7	37.06	201	229	A	H
	*	5210	100.83	-	-	97.57	33.2	7.08	37.02	201	229	P	H
	*	5210	94	-	-	90.74	33.2	7.08	37.02	201	229	A	H
		5354.16	45.65	-28.35	74	42.54	33	7.03	36.92	201	229	P	H
		5365.64	38.79	-15.21	54	35.68	33	7.02	36.91	201	229	A	H
		5149.76	59.81	-14.19	74	56.67	33.2	7	37.06	400	185	P	V
		5149.76	53.34	-0.66	54	50.2	33.2	7	37.06	400	185	A	V
	*	5210	106.66	-	-	103.4	33.2	7.08	37.02	400	185	P	V
	*	5210	99.51	-	-	96.25	33.2	7.08	37.02	400	185	A	V
		5375.16	48.83	-25.17	74	45.71	33	7.02	36.9	400	185	P	V
		5367.04	42.59	-11.41	54	39.48	33	7.02	36.91	400	185	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11ax HE80 Full (Harmonic @ 3m)

TEL : 886-3-327-0868
FAX : 886-3-327-0855



Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5100.98	56.94	-17.06	74	54	33.1	6.93	37.09	198	234	P	H
		5100.98	48.72	-5.28	54	45.78	33.1	6.93	37.09	198	234	A	H
	*	5260	115.18	-	-	111.92	33.18	7.06	36.98	198	234	P	H
	*	5260	110.08	-	-	106.82	33.18	7.06	36.98	198	234	A	H
		5351.28	63.85	-10.15	74	60.74	33	7.03	36.92	198	234	P	H
		5351.28	49.05	-4.95	54	45.94	33	7.03	36.92	198	234	A	H
		5098.94	58.65	-15.35	74	55.72	33.1	6.92	37.09	396	182	P	V
		5099.28	51.39	-2.61	54	48.46	33.1	6.92	37.09	396	182	A	V
	*	5260	122.33	-	-	119.07	33.18	7.06	36.98	396	182	P	V
	*	5260	115.58	-	-	112.32	33.18	7.06	36.98	396	182	A	V
		5360.4	67.3	-6.7	74	64.19	33	7.02	36.91	396	182	P	V
		5350.08	52	-2	54	48.89	33	7.03	36.92	396	182	A	V
802.11a CH 60 5300MHz		5140.08	55.8	-18.2	74	52.69	33.18	6.99	37.06	197	239	P	H
		5139.06	48.61	-5.39	54	45.51	33.18	6.99	37.07	197	239	A	H
	*	5300	116.18	-	-	112.99	33.1	7.05	36.96	197	239	P	H
	*	5300	109.76	-	-	106.57	33.1	7.05	36.96	197	239	A	H
		5357.52	61.46	-12.54	74	58.36	33	7.02	36.92	197	239	P	H
		5356.32	46.53	-7.47	54	43.42	33	7.03	36.92	197	239	A	H
		5138.72	59.16	-14.84	74	56.06	33.18	6.99	37.07	392	181	P	V
		5138.04	52.59	-1.41	54	49.5	33.18	6.98	37.07	392	181	A	V
	*	5300	122.54	-	-	119.35	33.1	7.05	36.96	392	181	P	V
	*	5300	116.25	-	-	113.06	33.1	7.05	36.96	392	181	A	V
		5354.88	64.41	-9.59	74	61.3	33	7.03	36.92	392	181	P	V
		5456.64	50.79	-3.21	54	47.53	33.1	7.01	36.85	392	181	A	V



802.11a CH 64 5320MHz	*	5320	110.85	-	-	107.69	33.06	7.04	36.94	400	82	P	H
	*	5320	105.17	-	-	102.01	33.06	7.04	36.94	400	82	A	H
		5353.6	57.06	-16.94	74	53.95	33	7.03	36.92	400	82	P	H
		5350.08	48.15	-5.85	54	45.04	33	7.03	36.92	400	82	A	H
													H
													H
	*	5320	116.39	-	-	113.23	33.06	7.04	36.94	399	143	P	V
	*	5320	109.87	-	-	106.71	33.06	7.04	36.94	399	143	A	V
		5351.04	64.36	-9.64	74	61.25	33	7.03	36.92	399	143	P	V
		5350.4	52.45	-1.55	54	49.34	33	7.03	36.92	399	143	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11a (Harmonic @ 3m)

[illegible]



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 60 5300MHz		10600	53.72	-20.28	74	59.37	39.3	11.5	56.45	100	1	P	H
		10600	43.73	-10.27	54	49.38	39.3	11.5	56.45	100	1	A	H
		15900	51.9	-22.1	74	56.34	37.8	13.8	56.04	201	45	P	H
		15900	40.95	-13.05	54	45.39	37.8	13.8	56.04	201	45	A	H
													H
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													H
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													H
													H
													H
													H
		10600	51.5	-22.5	74	57.15	39.3	11.5	56.45	102	216	P	V
		10600	42.43	-11.57	54	48.08	39.3	11.5	56.45	102	216	A	V
		15900	54.65	-19.35	74	59.09	37.8	13.8	56.04	201	348	P	V
		15900	44.12	-9.88	54	48.56	37.8	13.8	56.04	201	348	A	V
													V
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													V
													V



TEL : 886-3-327-0868
FAX : 886-3-327-0855



Band 2 5250~5350MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 52 5260MHz		5096.9	59.53	-14.47	74	56.59	33.11	6.92	37.09	400	182	P	V
		5099.62	52.85	-1.15	54	49.92	33.1	6.92	37.09	400	182	A	V
	*	5260	119.92	-	-	116.66	33.18	7.06	36.98	400	182	P	V
	*	5260	113.99	-	-	110.73	33.18	7.06	36.98	400	182	A	V
		5352.48	61.69	-12.31	74	58.58	33	7.03	36.92	400	182	P	V
		5350.08	51.93	-2.07	54	48.82	33	7.03	36.92	400	182	A	V
		5102	55.29	-18.71	74	52.35	33.1	6.93	37.09	397	89	P	H
		5099.62	46.67	-7.33	54	43.74	33.1	6.92	37.09	397	89	A	H
	*	5260	113.08	-	-	109.82	33.18	7.06	36.98	397	89	P	H
	*	5260	107.19	-	-	103.93	33.18	7.06	36.98	397	89	A	H
		5359.44	57.99	-16.01	74	54.89	33	7.02	36.92	397	89	P	H
		5422.32	47.91	-6.09	54	44.73	33.04	7.01	36.87	397	89	A	H
802.11ac VHT20 CH 60 5300MHz		5140.42	55.67	-18.33	74	52.56	33.18	6.99	37.06	200	234	P	H
		5140.76	47.59	-6.41	54	44.48	33.18	6.99	37.06	200	234	A	H
	*	5300	112.13	-	-	108.94	33.1	7.05	36.96	200	234	P	H
	*	5300	106.29	-	-	103.1	33.1	7.05	36.96	200	234	A	H
		5351.76	54.47	-19.53	74	51.36	33	7.03	36.92	200	234	P	H
		5350.56	46.62	-7.38	54	43.51	33	7.03	36.92	200	234	A	H
		5142.8	57.53	-16.47	74	54.41	33.19	6.99	37.06	400	181	P	V
		5137.36	50.23	-3.77	54	47.15	33.17	6.98	37.07	400	181	A	V
	*	5300	116.89	-	-	113.7	33.1	7.05	36.96	400	181	P	V
	*	5300	110	-	-	106.81	33.1	7.05	36.96	400	181	A	V
		5350.56	64.25	-9.75	74	61.14	33	7.03	36.92	400	181	P	V
		5350.08	51.97	-2.03	54	48.86	33	7.03	36.92	400	181	A	V



802.11ac VHT20 CH 64 5320MHz	*	5320	108.58	-	-	105.42	33.06	7.04	36.94	397	78	P	H
	*	5320	102.31	-	-	99.15	33.06	7.04	36.94	397	78	A	H
		5350.4	56	-18	74	52.89	33	7.03	36.92	397	78	P	H
		5350.08	46.48	-7.52	54	43.37	33	7.03	36.92	397	78	A	H
													H
													H
	*	5320	111.75	-	-	108.59	33.06	7.04	36.94	400	178	P	V
	*	5320	105.59	-	-	102.43	33.06	7.04	36.94	400	178	A	V
		5350.24	61.8	-12.2	74	58.69	33	7.03	36.92	400	178	P	V
		5350.24	51.1	-2.9	54	47.99	33	7.03	36.92	400	178	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 52 5260MHz		10520	56.24	-11.96	68.2	62.32	38.94	11.46	56.48	100	355	P	H
		15780	56.4	-17.6	74	61.18	37.64	13.73	56.15	200	119	P	H
		15780	46.55	-7.45	54	51.33	37.64	13.73	56.15	200	119	A	H
													H
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													H
													H
		10520	55.42	-12.78	68.2	61.5	38.94	11.46	56.48	100	222	P	V
		15780	58.65	-15.35	74	63.43	37.64	13.73	56.15	100	98	P	V
		15780	48.59	-5.41	54	53.37	37.64	13.73	56.15	100	98	A	V
													V
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WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 60 5300MHz		10600	53.74	-20.26	74	59.39	39.3	11.5	56.45	114	0	P	H
		10600	43.7	-10.3	54	49.35	39.3	11.5	56.45	114	0	A	H
		15900	49.99	-24.01	74	54.43	37.8	13.8	56.04	207	16	P	H
		15900	39.76	-14.24	54	44.2	37.8	13.8	56.04	207	16	A	H
													H
													H
													H
													H
													H
													H
													H
													H
		10600	47.46	-26.54	74	53.11	39.3	11.5	56.45	-	-	P	V
		15900	47	-27	74	51.44	37.8	13.8	56.04	-	-	P	V
													V
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													V
													V

[illegible]



Band 2 5250~5350MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT40 CH 54 5270MHz		5107.44	49.95	-24.05	74	46.99	33.11	6.94	37.09	196	102	P	H
		5149.94	41.7	-12.3	54	38.56	33.2	7	37.06	196	102	A	H
	*	5270	107.04	-	-	103.8	33.16	7.06	36.98	196	102	P	H
	*	5270	100.73	-	-	97.49	33.16	7.06	36.98	196	102	A	H
		5350.32	58.85	-15.15	74	55.74	33	7.03	36.92	196	102	P	H
		5350.08	46.22	-7.78	54	43.11	33	7.03	36.92	196	102	A	H
		5112.54	53.87	-20.13	74	50.88	33.13	6.94	37.08	400	177	P	V
		5112.54	45.78	-8.22	54	42.79	33.13	6.94	37.08	400	177	A	V
	*	5270	111.61	-	-	108.37	33.16	7.06	36.98	400	177	P	V
	*	5270	105.18	-	-	101.94	33.16	7.06	36.98	400	177	A	V
		5360.64	65.12	-8.88	74	62.01	33	7.02	36.91	400	177	P	V
		5350.08	51.54	-2.46	54	48.43	33	7.03	36.92	400	177	A	V
802.11ac VHT40 CH 62 5310MHz		5062.9	48.45	-25.55	74	45.53	33.17	6.87	37.12	397	81	P	H
		5149.26	39.98	-14.02	54	36.84	33.2	7	37.06	397	81	A	H
	*	5310	105.1	-	-	101.93	33.08	7.04	36.95	397	81	P	H
	*	5310	98.79	-	-	95.62	33.08	7.04	36.95	397	81	A	H
		5356.56	56.79	-17.21	74	53.68	33	7.03	36.92	397	81	P	H
		5351.76	47.14	-6.86	54	44.03	33	7.03	36.92	397	81	A	H
		5148.24	51.11	-22.89	74	47.97	33.2	7	37.06	400	176	P	V
		5147.9	42.93	-11.07	54	39.79	33.2	7	37.06	400	176	A	V
	*	5310	108.83	-	-	105.66	33.08	7.04	36.95	400	176	P	V
	*	5310	102.11	-	-	98.94	33.08	7.04	36.95	400	176	A	V
		5350.32	62.42	-11.58	74	59.31	33	7.03	36.92	400	176	P	V
		5350.56	52.7	-1.3	54	49.59	33	7.03	36.92	400	176	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT40 CH 54 5270MHz		10540	46.21	-21.99	68.2	52.23	38.98	11.47	56.47	-	-	P	H
		15810	45.89	-28.11	74	50.67	37.6	13.74	56.12	-	-	P	H
													H
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													H
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													H
													H
													H
													H
		10540	46.74	-21.46	68.2	52.76	38.98	11.47	56.47	-	-	P	V
		15810	45.44	-28.56	74	50.22	37.6	13.74	56.12	-	-	P	V
													V
													V
													V
													V
													V
													V



TEL : 886-3-327-0868
FAX : 886-3-327-0855



Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5135.32	53.57	-20.43	74	50.49	33.17	6.98	37.07	396	278	P	H
		5050.66	44.41	-9.59	54	41.49	33.2	6.85	37.13	396	278	A	H
	*	5290	99.25	-	-	96.04	33.12	7.05	36.96	396	278	P	H
	*	5290	92.09	-	-	88.88	33.12	7.05	36.96	396	278	A	H
		5351.04	55.26	-18.74	74	52.15	33	7.03	36.92	396	278	P	H
		5350.32	48.57	-5.43	54	45.46	33	7.03	36.92	396	278	A	H
		5119	53.5	-20.5	74	50.49	33.14	6.95	37.08	400	197	P	V
		5116.62	44.78	-9.22	54	41.78	33.13	6.95	37.08	400	197	A	V
	*	5290	103.2	-	-	99.99	33.12	7.05	36.96	400	197	P	V
	*	5290	96.62	-	-	93.41	33.12	7.05	36.96	400	197	A	V
		5351.28	61.84	-12.16	74	58.73	33	7.03	36.92	400	197	P	V
		5351.04	53.41	-0.59	54	50.3	33	7.03	36.92	400	197	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		10580	45.34	-22.86	68.2	51.13	39.18	11.49	56.46	-	-	P	H
		15870	43.84	-30.16	74	48.44	37.68	13.79	56.07	-	-	P	H
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Band 2 5250~5350MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE20 Full CH 52 5260MHz		5093.16	54.49	-19.51	74	51.57	33.11	6.91	37.1	214	100	P	H
		5102.34	47.14	-6.86	54	44.2	33.1	6.93	37.09	214	100	A	H
	*	5260	115.2	-	-	111.94	33.18	7.06	36.98	214	100	P	H
	*	5260	107.07	-	-	103.81	33.18	7.06	36.98	214	100	A	H
		5350.56	56.68	-17.32	74	53.57	33	7.03	36.92	214	100	P	H
		5350.32	46.13	-7.87	54	43.02	33	7.03	36.92	214	100	A	H
		5102.34	58.75	-15.25	74	55.81	33.1	6.93	37.09	400	179	P	V
		5102.34	51.05	-2.95	54	48.11	33.1	6.93	37.09	400	179	A	V
	*	5260	118.83	-	-	115.57	33.18	7.06	36.98	400	179	P	V
	*	5260	112.44	-	-	109.18	33.18	7.06	36.98	400	179	A	V
		5355.12	60.13	-13.87	74	57.02	33	7.03	36.92	400	179	P	V
		5350.32	50.97	-3.03	54	47.86	33	7.03	36.92	400	179	A	V
802.11ax HE20 Full CH 60 5300MHz		5006.46	54.66	-19.34	74	51.75	33.29	6.78	37.16	200	98	P	H
		5142.46	46.79	-7.21	54	43.68	33.18	6.99	37.06	200	98	A	H
	*	5300	112.02	-	-	108.83	33.1	7.05	36.96	200	98	P	H
	*	5300	105.15	-	-	101.96	33.1	7.05	36.96	200	98	A	H
		5353.68	55.74	-18.26	74	52.63	33	7.03	36.92	200	98	P	H
		5350.56	46.88	-7.12	54	43.77	33	7.03	36.92	200	98	A	H
		5139.74	55.86	-18.14	74	52.75	33.18	6.99	37.06	400	194	P	V
		5138.72	48.9	-5.1	54	45.8	33.18	6.99	37.07	400	194	A	V
	*	5300	114.93	-	-	111.74	33.1	7.05	36.96	400	194	P	V
	*	5300	108.55	-	-	105.36	33.1	7.05	36.96	400	194	A	V
		5350.08	64.38	-9.62	74	61.27	33	7.03	36.92	400	194	P	V
		5351.76	51.52	-2.48	54	48.41	33	7.03	36.92	400	194	A	V



802.11ax HE20 Full CH 64 5320MHz	*	5320	111.03	-	-	107.87	33.06	7.04	36.94	400	82	P	H
	*	5320	102.75	-	-	99.59	33.06	7.04	36.94	400	82	A	H
		5352.32	56.43	-17.57	74	53.32	33	7.03	36.92	400	82	P	H
		5350.08	46.76	-7.24	54	43.65	33	7.03	36.92	400	82	A	H
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	*	5320	114.6	-	-	111.44	33.06	7.04	36.94	400	195	P	V
	*	5320	107.92	-	-	104.76	33.06	7.04	36.94	400	195	A	V
		5351.2	65.38	-8.62	74	62.27	33	7.03	36.92	400	195	P	V
		5351.2	52.84	-1.16	54	49.73	33	7.03	36.92	400	195	A	V
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Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11ax HE20 Full (Harmonic @ 3m)

[illegible]



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE20 Full CH 60 5300MHz		10600	53.67	-20.33	74	59.32	39.3	11.5	56.45	100	10	P	H
		10600	42.97	-11.03	54	48.62	39.3	11.5	56.45	100	10	A	H
		15900	57.24	-16.76	74	61.68	37.8	13.8	56.04	200	224	P	H
		15900	45.82	-8.18	54	50.26	37.8	13.8	56.04	200	224	A	H
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		10600	52.45	-21.55	74	58.1	39.3	11.5	56.45	100	188	P	V
		10600	43.51	-10.49	54	49.16	39.3	11.5	56.45	100	188	A	V
		15900	55.56	-18.44	74	60	37.8	13.8	56.04	201	348	P	V
		15900	45.63	-8.37	54	50.07	37.8	13.8	56.04	201	348	A	V
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TEL : 886-3-327-0868
FAX : 886-3-327-0855



Band 2 5250~5350MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE40 Full CH 54 5270MHz		5109.48	48.83	-25.17	74	45.86	33.12	6.94	37.09	400	96	P	H
		5109.14	40.81	-13.19	54	37.84	33.12	6.94	37.09	400	96	A	H
	*	5270	107.23	-	-	103.99	33.16	7.06	36.98	400	96	P	H
	*	5270	99.55	-	-	96.31	33.16	7.06	36.98	400	96	A	H
		5356.32	55.72	-18.28	74	52.61	33	7.03	36.92	400	96	P	H
		5354.64	46.89	-7.11	54	43.78	33	7.03	36.92	400	96	A	H
		5107.78	53.31	-20.69	74	50.34	33.12	6.94	37.09	400	181	P	V
		5107.1	45.52	-8.48	54	42.56	33.11	6.94	37.09	400	181	A	V
	*	5270	111.22	-	-	107.98	33.16	7.06	36.98	400	181	P	V
	*	5270	104.28	-	-	101.04	33.16	7.06	36.98	400	181	A	V
		5355.12	68.42	-5.58	74	65.31	33	7.03	36.92	400	181	P	V
		5354.4	52.47	-1.53	54	49.36	33	7.03	36.92	400	181	A	V
802.11ax HE40 Full CH 62 5310MHz		5144.84	48.58	-25.42	74	45.46	33.19	6.99	37.06	395	83	P	H
		5148.24	40.81	-13.19	54	37.67	33.2	7	37.06	395	83	A	H
	*	5310	108.23	-	-	105.06	33.08	7.04	36.95	395	83	P	H
	*	5310	98.9	-	-	95.73	33.08	7.04	36.95	395	83	A	H
		5351.04	54.63	-19.37	74	51.52	33	7.03	36.92	395	83	P	H
		5350.56	47.48	-6.52	54	44.37	33	7.03	36.92	395	83	A	H
		5147.9	50.91	-23.09	74	47.77	33.2	7	37.06	400	191	P	V
		5145.18	43.55	-10.45	54	40.42	33.19	7	37.06	400	191	A	V
	*	5310	108.65	-	-	105.48	33.08	7.04	36.95	400	191	P	V
	*	5310	101.59	-	-	98.42	33.08	7.04	36.95	400	191	A	V
		5351.52	61.29	-12.71	74	58.18	33	7.03	36.92	400	191	P	V
		5350.32	52.93	-1.07	54	49.82	33	7.03	36.92	400	191	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

[illegible]

[illegible]



Band 2 5250~5350MHz

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE80 Full CH 58 5290MHz		5099.96	47.77	-26.23	74	44.84	33.1	6.92	37.09	203	230	P	H
		5145.86	40.25	-13.75	54	37.12	33.19	7	37.06	203	230	A	H
	*	5290	102.09	-	-	98.88	33.12	7.05	36.96	203	230	P	H
	*	5290	94.06	-	-	90.85	33.12	7.05	36.96	203	230	A	H
		5351.28	53.44	-20.56	74	50.33	33	7.03	36.92	203	230	P	H
		5350.8	48.93	-5.07	54	45.82	33	7.03	36.92	203	230	A	H
		5147.9	49.91	-24.09	74	46.77	33.2	7	37.06	390	183	P	V
		5144.84	42.96	-11.04	54	39.84	33.19	6.99	37.06	390	183	A	V
	*	5290	108.07	-	-	104.86	33.12	7.05	36.96	390	183	P	V
	*	5290	100.06	-	-	96.85	33.12	7.05	36.96	390	183	A	V
		5355.36	58.63	-15.37	74	55.52	33	7.03	36.92	390	183	P	V
		5350.08	52.77	-1.23	54	49.66	33	7.03	36.92	390	183	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11ax HE80 Full (Harmonic @ 3m)

TEL : 886-3-327-0868
FAX : 886-3-327-0855



Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5419.92	53.78	-20.22	74	50.6	33.04	7.01	36.87	400	104	P	H
		5463.92	56.28	-11.92	68.2	53.01	33.1	7.01	36.84	400	104	P	H
		5419.92	46.77	-7.23	54	43.59	33.04	7.01	36.87	400	104	A	H
	*	5500	113.47	-	-	110.18	33.1	7.01	36.82	400	104	P	H
	*	5500	106.51	-	-	103.22	33.1	7.01	36.82	400	104	A	H
													H
		5457.68	61.18	-12.82	74	57.92	33.1	7.01	36.85	400	197	P	V
		5467.76	64.5	-3.7	68.2	61.23	33.1	7.01	36.84	400	197	P	V
		5457.36	51.03	-2.97	54	47.77	33.1	7.01	36.85	400	197	A	V
	*	5500	115.15	-	-	111.86	33.1	7.01	36.82	400	197	P	V
	*	5500	109.67	-	-	106.38	33.1	7.01	36.82	400	197	A	V
													V
802.11a CH 116 5580MHz		5422	56.39	-17.61	74	53.21	33.04	7.01	36.87	183	231	P	H
		5464.24	52.24	-15.96	68.2	48.97	33.1	7.01	36.84	183	231	P	H
		5421.28	46.74	-7.26	54	43.56	33.04	7.01	36.87	183	231	A	H
	*	5580	112.9	-	-	109.68	33.06	7	36.84	183	231	P	H
	*	5580	106.76	-	-	103.54	33.06	7	36.84	183	231	A	H
		5739.8	53.26	-14.94	68.2	49.33	33.74	7.07	36.88	183	231	P	H
		5423.44	57.47	-16.53	74	54.28	33.05	7.01	36.87	388	191	P	V
		5461.36	55.46	-12.74	68.2	52.2	33.1	7.01	36.85	388	191	P	V
		5418.16	49.84	-4.16	54	46.67	33.04	7.01	36.88	388	191	A	V
	*	5580	121.74	-	-	118.52	33.06	7	36.84	388	191	P	V
	*	5580	114.52	-	-	111.3	33.06	7	36.84	388	191	A	V
		5737.91	54.95	-13.25	68.2	51.03	33.73	7.07	36.88	388	191	P	V



802.11a CH 140 5700MHz	*	5700	115.39	-	-	111.71	33.5	7.05	36.87	400	96	P	H
	*	5700	108.11	-	-	104.43	33.5	7.05	36.87	400	96	A	H
		5728.12	64.71	-3.49	68.2	60.85	33.67	7.06	36.87	400	96	P	H
													H
													H
													H
	*	5700	117.16	-	-	113.48	33.5	7.05	36.87	400	149	P	V
	*	5700	109.9	-	-	106.22	33.5	7.05	36.87	400	149	A	V
		5725.08	65.66	-2.54	68.2	61.82	33.65	7.06	36.87	400	149	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		11000	46.54	-27.46	74	52.21	38.9	11.72	56.29	-	-	P	H
		16500	49.11	-19.09	68.2	52.48	38.2	13.97	55.54	200	42	P	H
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		11000	45.77	-28.23	74	51.44	38.9	11.72	56.29	-	-	P	V
		16500	48.75	-19.45	68.2	52.12	38.2	13.97	55.54	200	119	P	V
													V
													V
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WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		11160	45.74	-28.26	74	51.3	38.9	11.75	56.21	-	-	P	H
		16740	47.56	-20.64	68.2	51.31	38.04	14.03	55.82	-	-	P	H
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		11160	46.63	-27.37	74	52.19	38.9	11.75	56.21	-	-	P	V
		16740	46.82	-21.38	68.2	50.57	38.04	14.03	55.82	-	-	P	V
													V
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													V
													V



TEL : 886-3-327-0868
FAX : 886-3-327-0855



Band 3 - 5470~5725MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 100 5500MHz		5458.32	54.33	-19.67	74	51.07	33.1	7.01	36.85	394	82	P	H
		5467.92	56.43	-11.77	68.2	53.16	33.1	7.01	36.84	394	82	P	H
		5459.92	46.5	-7.5	54	43.24	33.1	7.01	36.85	394	82	A	H
	*	5500	112.38	-	-	109.09	33.1	7.01	36.82	394	82	P	H
	*	5500	105.69	-	-	102.4	33.1	7.01	36.82	394	82	A	H
													H
		5458.32	60.49	-13.51	74	57.23	33.1	7.01	36.85	387	165	P	V
		5467.12	63.21	-4.99	68.2	59.94	33.1	7.01	36.84	387	165	P	V
		5458.8	51.72	-2.28	54	48.46	33.1	7.01	36.85	387	165	A	V
	*	5500	114.57	-	-	111.28	33.1	7.01	36.82	387	165	P	V
	*	5500	108.44	-	-	105.15	33.1	7.01	36.82	387	165	A	V
													V
802.11ac VHT20 CH 116 5580MHz		5425.12	52.64	-21.36	74	49.45	33.05	7.01	36.87	400	87	P	H
		5461.36	52.18	-16.02	68.2	48.92	33.1	7.01	36.85	400	87	P	H
		5422.48	44.13	-9.87	54	40.95	33.04	7.01	36.87	400	87	A	H
	*	5580	110.63	-	-	107.41	33.06	7	36.84	400	87	P	H
	*	5580	104.13	-	-	100.91	33.06	7	36.84	400	87	A	H
		5756.495	53.3	-14.9	68.2	49.27	33.83	7.08	36.88	400	87	P	H
		5420.8	54.43	-19.57	74	51.25	33.04	7.01	36.87	400	141	P	V
		5460.16	52.75	-15.45	68.2	49.49	33.1	7.01	36.85	400	141	P	V
		5420.8	46.8	-7.2	54	43.62	33.04	7.01	36.87	400	141	A	V
	*	5580	114.61	-	-	111.39	33.06	7	36.84	400	141	P	V
	*	5580	108.17	-	-	104.95	33.06	7	36.84	400	141	A	V
		5734.445	54.49	-13.71	68.2	50.59	33.71	7.07	36.88	400	141	P	V



802.11ac VHT20 CH 140 5700MHz	*	5700	113.39	-	-	109.71	33.5	7.05	36.87	400	86	P	H
	*	5700	106.16	-	-	102.48	33.5	7.05	36.87	400	86	A	H
		5725.24	63.54	-4.66	68.2	59.7	33.65	7.06	36.87	400	86	P	H
													H
													H
													H
	*	5700	115.59	-	-	111.91	33.5	7.05	36.87	388	159	P	V
	*	5700	109.02	-	-	105.34	33.5	7.05	36.87	388	159	A	V
		5727.72	66.35	-1.85	68.2	62.49	33.67	7.06	36.87	388	159	P	V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 100 5500MHz		11000	47.15	-26.85	74	52.82	38.9	11.72	56.29	-	-	P	H
		16500	50.94	-17.26	68.2	54.31	38.2	13.97	55.54	191	44	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11000	47.56	-26.44	74	53.23	38.9	11.72	56.29	-	-	P	V
		16500	48.11	-20.09	68.2	51.48	38.2	13.97	55.54	200	120	P	V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 116 5580MHz		11160	45.9	-28.1	74	51.46	38.9	11.75	56.21	-	-	P	H
		16740	48.23	-19.97	68.2	51.98	38.04	14.03	55.82	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11160	45.87	-28.13	74	51.43	38.9	11.75	56.21	-	-	P	V
		16740	48.28	-19.92	68.2	52.03	38.04	14.03	55.82	-	-	P	V
													V
													V
													V
													V
													V
													V
													V



TEL : 886-3-327-0868
FAX : 886-3-327-0855



Band 3 - 5470~5725MHz

WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT40 CH 102 5510MHz		5458.96	56.36	-17.64	74	53.1	33.1	7.01	36.85	395	85	P	H
		5468.56	58.74	-9.46	68.2	55.47	33.1	7.01	36.84	395	85	P	H
		5458.96	46.87	-7.13	54	43.61	33.1	7.01	36.85	395	85	A	H
	*	5510	110.13	-	-	106.87	33.08	7	36.82	395	85	P	H
	*	5510	103.23	-	-	99.97	33.08	7	36.82	395	85	A	H
		5734.13	52.41	-15.79	68.2	48.52	33.7	7.07	36.88	395	85	P	H
		5459.44	59.97	-14.03	74	56.71	33.1	7.01	36.85	400	197	P	V
		5470	65.75	-2.45	68.2	62.48	33.1	7.01	36.84	400	197	P	V
		5459.92	51.15	-2.85	54	47.89	33.1	7.01	36.85	400	197	A	V
	*	5510	113.84	-	-	110.58	33.08	7	36.82	400	197	P	V
	*	5510	107.62	-	-	104.36	33.08	7	36.82	400	197	A	V
		5724.995	53.07	-96.93	150	49.23	33.65	7.06	36.87	400	197	P	V
802.11ac VHT40 CH 110 5550MHz		5456.08	58.98	-15.02	74	55.72	33.1	7.01	36.85	400	100	P	H
		5468.32	64.61	-3.59	68.2	61.34	33.1	7.01	36.84	400	100	P	H
		5458.48	46.61	-7.39	54	43.35	33.1	7.01	36.85	400	100	A	H
	*	5550	112.01	-	-	108.84	33	7	36.83	400	100	P	H
	*	5550	105.95	-	-	102.78	33	7	36.83	400	100	A	H
		5759.645	51.84	-16.36	68.2	47.8	33.84	7.08	36.88	400	100	P	H
		5454.64	63.38	-10.62	74	60.12	33.1	7.01	36.85	400	198	P	V
		5464.96	66.04	-2.16	68.2	62.77	33.1	7.01	36.84	400	198	P	V
		5459.68	50.69	-3.31	54	47.43	33.1	7.01	36.85	400	198	A	V
	*	5550	114.43	-	-	111.26	33	7	36.83	400	198	P	V
	*	5550	108.28	-	-	105.11	33	7	36.83	400	198	A	V
		5742.005	53.15	-15.05	68.2	49.21	33.75	7.07	36.88	400	198	P	V



802.11ac VHT40 CH 134 5670MHz		5459.2	48.93	-25.07	74	45.67	33.1	7.01	36.85	399	86	P	H
		5465.15	46.79	-21.41	68.2	43.52	33.1	7.01	36.84	399	86	P	H
		5425.95	40.57	-13.43	54	37.38	33.05	7.01	36.87	399	86	A	H
	*	5670	109.91	-	-	106.42	33.32	7.03	36.86	399	86	P	H
	*	5670	103.85	-	-	100.36	33.32	7.03	36.86	399	86	A	H
		5728.145	64.49	-3.71	68.2	60.63	33.67	7.06	36.87	399	86	P	H
		5434	47.92	-26.08	74	44.7	33.07	7.01	36.86	400	42	P	V
		5469.7	47.25	-20.95	68.2	43.98	33.1	7.01	36.84	400	42	P	V
		5424.55	37.92	-16.08	54	34.73	33.05	7.01	36.87	400	42	A	V
	*	5670	111.68	-	-	108.19	33.32	7.03	36.86	400	42	P	V
	*	5670	105.45	-	-	101.96	33.32	7.03	36.86	400	42	A	V
		5725.31	66.85	-1.35	68.2	63.01	33.65	7.06	36.87	400	42	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - 5470~5725MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT40 CH 102 5510MHz		11020	45.95	-28.05	74	51.65	38.86	11.72	56.28	-	-	P	H
		16530	46.13	-22.07	68.2	49.64	38.08	13.98	55.57	-	-	P	H
													H
													H
													H
													H
													H
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													H
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													H
													H
													H
		11020	46.01	-27.99	74	51.71	38.86	11.72	56.28	-	-	P	V
		16530	45.76	-22.44	68.2	49.27	38.08	13.98	55.57	-	-	P	V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT40 CH 110 5550MHz		11100	46.05	-27.95	74	51.75	38.8	11.74	56.24	-	-	P	H
		16650	46.03	-22.17	68.2	49.44	38.3	14	55.71	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11100	46.43	-27.57	74	52.13	38.8	11.74	56.24	-	-	P	V
		16650	45.38	-22.82	68.2	48.79	38.3	14	55.71	-	-	P	V
													V
													V
													V
													V
													V
													V



TEL : 886-3-327-0868
FAX : 886-3-327-0855



Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5445.76	56.13	-17.87	74	52.89	33.09	7.01	36.86	400	276	P	H
		5460.88	57.34	-10.86	68.2	54.08	33.1	7.01	36.85	400	276	P	H
		5458	49.19	-4.81	54	45.93	33.1	7.01	36.85	400	276	A	H
	*	5530	103.09	-	-	99.88	33.04	7	36.83	400	276	P	H
	*	5530	97.21	-	-	94	33.04	7	36.83	400	276	A	H
		5729.72	52.38	-15.82	68.2	48.52	33.68	7.06	36.88	400	276	P	H
		5456.8	60.02	-13.98	74	56.76	33.1	7.01	36.85	400	165	P	V
		5469.52	60.48	-7.72	68.2	57.21	33.1	7.01	36.84	400	165	P	V
		5453.92	53.26	-0.74	54	50	33.1	7.01	36.85	400	165	A	V
	*	5530	108.05	-	-	104.84	33.04	7	36.83	400	165	P	V
	*	5530	101.49	-	-	98.28	33.04	7	36.83	400	165	A	V
		5757.125	52.39	-15.81	68.2	48.36	33.83	7.08	36.88	400	165	P	V
802.11ac VHT80 CH 122 5610MHz		5443.6	55.83	-18.17	74	52.59	33.09	7.01	36.86	400	78	P	H
		5469.04	56.26	-11.94	68.2	52.99	33.1	7.01	36.84	400	78	P	H
		5458.48	47.47	-6.53	54	44.21	33.1	7.01	36.85	400	78	A	H
	*	5610	107.98	-	-	104.7	33.12	7.01	36.85	400	78	P	H
	*	5610	101.56	-	-	98.28	33.12	7.01	36.85	400	78	A	H
		5739.17	61.56	-6.64	68.2	57.63	33.74	7.07	36.88	400	78	P	H
		5442.64	58.14	-15.86	74	54.9	33.09	7.01	36.86	381	137	P	V
		5463.76	58.68	-9.52	68.2	55.41	33.1	7.01	36.84	381	137	P	V
		5459.68	50.76	-3.24	54	47.5	33.1	7.01	36.85	381	137	A	V
	*	5610	111.39	-	-	108.11	33.12	7.01	36.85	381	137	P	V
	*	5610	104.31	-	-	101.03	33.12	7.01	36.85	381	137	A	V
		5735.39	67.4	-0.8	68.2	63.5	33.71	7.07	36.88	381	137	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		11060	46.45	-27.55	74	52.18	38.8	11.73	56.26	-	-	P	H
		16590	45.53	-22.67	68.2	49.17	38	14	55.64	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11060	47.17	-26.83	74	52.9	38.8	11.73	56.26	-	-	P	V
		16590	45.14	-23.06	68.2	48.78	38	14	55.64	-	-	P	V
													V
													V
													V
													V
													V
													V
													V



TEL : 886-3-327-0868
FAX : 886-3-327-0855



Band 3 5470~5725MHz

WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE20 Full CH 100 5500MHz		5454.8	55.65	-18.35	74	52.39	33.1	7.01	36.85	390	84	P	H
		5467.92	60.17	-8.03	68.2	56.9	33.1	7.01	36.84	390	84	P	H
		5460	48.2	-5.8	54	44.94	33.1	7.01	36.85	390	84	A	H
	*	5500	114.06	-	-	110.77	33.1	7.01	36.82	390	84	P	H
	*	5500	106.26	-	-	102.97	33.1	7.01	36.82	390	84	A	H
		5459.12	60.71	-13.29	74	57.45	33.1	7.01	36.85	400	197	P	V
		5468.4	64.24	-3.96	68.2	60.97	33.1	7.01	36.84	400	197	P	V
		5458.64	52.04	-1.96	54	48.78	33.1	7.01	36.85	400	197	A	V
	*	5500	116.59	-	-	113.3	33.1	7.01	36.82	400	197	P	V
	*	5500	108.98	-	-	105.69	33.1	7.01	36.82	400	197	A	V
													V
													V
802.11ax HE20 Full CH 116 5580MHz		5416.48	52.71	-21.29	74	49.55	33.03	7.01	36.88	200	104	P	H
		5468.08	52.09	-16.11	68.2	48.82	33.1	7.01	36.84	200	104	P	H
		5422.96	45.85	-8.15	54	42.66	33.05	7.01	36.87	200	104	A	H
	*	5580	111.81	-	-	108.59	33.06	7	36.84	200	104	P	H
	*	5580	104.9	-	-	101.68	33.06	7	36.84	200	104	A	H
		5736.335	54.14	-14.06	68.2	50.23	33.72	7.07	36.88	200	104	P	H
		5423.44	59.73	-14.27	74	56.54	33.05	7.01	36.87	400	199	P	V
		5469.28	56.85	-11.35	68.2	53.58	33.1	7.01	36.84	400	199	P	V
		5420.8	50.75	-3.25	54	47.57	33.04	7.01	36.87	400	199	A	V
	*	5580	121.03	-	-	117.81	33.06	7	36.84	400	199	P	V
	*	5580	114.09	-	-	110.87	33.06	7	36.84	400	199	A	V
		5734.445	57.11	-11.09	68.2	53.21	33.71	7.07	36.88	400	199	P	V



802.11ax HE20 Full CH 140 5700MHz	*	5700	112.99	-	-	109.31	33.5	7.05	36.87	400	80	P	H
	*	5700	105.4	-	-	101.72	33.5	7.05	36.87	400	80	A	H
		5725.08	63.18	-5.02	68.2	59.34	33.65	7.06	36.87	400	80	P	H
													H
													H
													H
	*	5700	117.07	-	-	113.39	33.5	7.05	36.87	383	152	P	V
	*	5700	107.74	-	-	104.06	33.5	7.05	36.87	383	152	A	V
		5733.16	66.34	-1.86	68.2	62.45	33.7	7.07	36.88	383	152	P	V
													V
													V
													V
Remark 1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													

Band 3 5470~5725MHz

WIFI 802.11ax HE20 (Harmonic @ 3m)

[illegible]



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE20 Full CH 116 5580MHz		11160	46.51	-27.49	74	52.07	38.9	11.75	56.21	-	-	P	H
		16740	53.2	-15	68.2	56.95	38.04	14.03	55.82	177	137	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11160	45.96	-28.04	74	51.52	38.9	11.75	56.21	-	-	P	V
		16740	51.95	-16.25	68.2	55.7	38.04	14.03	55.82	189	112	P	V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE20 Full CH 140 5700MHz		11400	47.65	-26.35	74	52.93	39	11.8	56.08	-	-	P	H
		17100	45.76	-22.44	68.2	49.81	38.1	14.14	56.29	-	-	P	H
													H
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													H
													H
													H
802.11ax HE20 Full CH 140 5700MHz		11400	47.33	-26.67	74	52.61	39	11.8	56.08	-	-	P	V
		17100	45.96	-22.24	68.2	50.01	38.1	14.14	56.29	-	-	P	V
													V
													V
													V
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													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.												



Band 3 5470~5725MHz

WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE40 Full CH 102 5510MHz		5459.92	53.67	-20.33	74	50.41	33.1	7.01	36.85	400	86	P	H
		5470	59.39	-8.81	68.2	56.12	33.1	7.01	36.84	400	86	P	H
		5456.56	45.74	-8.26	54	42.48	33.1	7.01	36.85	400	86	A	H
	*	5510	114.21	-	-	110.95	33.08	7	36.82	400	86	P	H
	*	5510	106.13	-	-	102.87	33.08	7	36.82	400	86	A	H
		5726.255	48.74	-19.46	68.2	44.89	33.66	7.06	36.87	400	86	P	H
		5459.68	60.28	-13.72	74	57.02	33.1	7.01	36.85	400	197	P	V
		5470	65.2	-3	68.2	61.93	33.1	7.01	36.84	400	197	P	V
		5459.92	51.55	-2.45	54	48.29	33.1	7.01	36.85	400	197	A	V
	*	5510	115.44	-	-	112.18	33.08	7	36.82	400	197	P	V
	*	5510	108.59	-	-	105.33	33.08	7	36.82	400	197	A	V
		5738.225	50.64	-17.56	68.2	46.72	33.73	7.07	36.88	400	197	P	V
802.11ax HE40 Full CH 110 5550MHz		5456.8	63.1	-10.9	74	59.84	33.1	7.01	36.85	395	101	P	H
		5468.08	61.24	-6.96	68.2	57.97	33.1	7.01	36.84	395	101	P	H
		5456.56	47.56	-6.44	54	44.3	33.1	7.01	36.85	395	101	A	H
	*	5550	110.31	-	-	107.14	33	7	36.83	395	101	P	H
	*	5550	103.4	-	-	100.23	33	7	36.83	395	101	A	H
		5726.885	48.37	-19.83	68.2	44.52	33.66	7.06	36.87	395	101	P	H
		5458.48	65.72	-8.28	74	62.46	33.1	7.01	36.85	400	200	P	V
		5469.04	67.65	-0.55	68.2	64.38	33.1	7.01	36.84	400	200	P	V
		5459.44	53.25	-0.75	54	49.99	33.1	7.01	36.85	400	200	A	V
	*	5550	113.07	-	-	109.9	33	7	36.83	400	200	P	V
	*	5550	106.73	-	-	103.56	33	7	36.83	400	200	A	V
		5725.625	50.89	-17.31	68.2	47.05	33.65	7.06	36.87	400	200	P	V



802.11ax HE40 Full CH 134 5670MHz		5446.95	47.35	-26.65	74	44.11	33.09	7.01	36.86	363	91	P	H
		5460.25	47.14	-21.06	68.2	43.88	33.1	7.01	36.85	363	91	P	H
		5429.1	39.51	-14.49	54	36.31	33.06	7.01	36.87	363	91	A	H
	*	5670	111.24	-	-	107.75	33.32	7.03	36.86	363	91	P	H
	*	5670	104.68	-	-	101.19	33.32	7.03	36.86	363	91	A	H
		5728.145	61.81	-6.39	68.2	57.95	33.67	7.06	36.87	363	91	P	H
		5387.8	47.34	-26.66	74	44.23	33	7.01	36.9	400	50	P	V
		5466.2	46.07	-22.13	68.2	42.8	33.1	7.01	36.84	400	50	P	V
		5448	38.56	-15.44	54	35.31	33.1	7.01	36.86	400	50	A	V
	*	5670	111.48	-	-	107.99	33.32	7.03	36.86	400	50	P	V
	*	5670	105.15	-	-	101.66	33.32	7.03	36.86	400	50	A	V
		5726.255	66.38	-1.82	68.2	62.53	33.66	7.06	36.87	400	50	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 HE40 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE40 Full CH 102 5510MHz		11020	46.49	-27.51	74	52.19	38.86	11.72	56.28	-	-	P	H
		16530	45.36	-22.84	68.2	48.87	38.08	13.98	55.57	-	-	P	H
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		11020	46.34	-27.66	74	52.04	38.86	11.72	56.28	-	-	P	V
		16530	45.99	-22.21	68.2	49.5	38.08	13.98	55.57	-	-	P	V
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WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE40 Full CH 110 5550MHz		11100	46.79	-27.21	74	52.49	38.8	11.74	56.24	-	-	P	H
		16650	46.22	-21.98	68.2	49.63	38.3	14	55.71	-	-	P	H
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		11100	46.02	-27.98	74	51.72	38.8	11.74	56.24	-	-	P	V
		16650	46.38	-21.82	68.2	49.79	38.3	14	55.71	-	-	P	V
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TEL : 886-3-327-0868
FAX : 886-3-327-0855



Band 3 5470~5725MHz

WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE80 Full CH 106 5530MHz		5449.84	53.25	-20.75	74	49.99	33.1	7.01	36.85	203	249	P	H
		5469.76	54.94	-13.26	68.2	51.67	33.1	7.01	36.84	203	249	P	H
		5457.76	45.78	-8.22	54	42.52	33.1	7.01	36.85	203	249	A	H
	*	5530	99.96	-	-	96.75	33.04	7	36.83	203	249	P	H
	*	5530	92.63	-	-	89.42	33.04	7	36.83	203	249	A	H
		5762.165	47.21	-20.99	68.2	43.16	33.85	7.08	36.88	203	249	P	H
		5438.56	60.16	-13.84	74	56.93	33.08	7.01	36.86	395	196	P	V
		5468.56	59.28	-8.92	68.2	56.01	33.1	7.01	36.84	395	196	P	V
		5453.44	53.27	-0.73	54	50.01	33.1	7.01	36.85	395	196	A	V
	*	5530	110.11	-	-	106.9	33.04	7	36.83	395	196	P	V
	*	5530	102.49	-	-	99.28	33.04	7	36.83	395	196	A	V
		5734.445	48.41	-19.79	68.2	44.51	33.71	7.07	36.88	395	196	P	V
802.11ax HE80 Full CH 122 5610MHz		5451.85	52.25	-21.75	74	48.99	33.1	7.01	36.85	149	222	P	H
		5466.2	52	-16.2	68.2	48.73	33.1	7.01	36.84	149	222	P	H
		5452.55	46.13	-7.87	54	42.87	33.1	7.01	36.85	149	222	A	H
	*	5610	103.35	-	-	100.07	33.12	7.01	36.85	149	222	P	H
	*	5610	96.42	-	-	93.14	33.12	7.01	36.85	149	222	A	H
		5738.54	58.35	-9.85	68.2	54.43	33.73	7.07	36.88	149	222	P	H
		5457.45	65.01	-8.99	74	61.75	33.1	7.01	36.85	400	196	P	V
		5462.35	61.03	-7.17	68.2	57.77	33.1	7.01	36.85	400	196	P	V
		5452.55	53.38	-0.62	54	50.12	33.1	7.01	36.85	400	196	A	V
	*	5610	112.15	-	-	108.87	33.12	7.01	36.85	400	196	P	V
	*	5610	105.27	-	-	101.99	33.12	7.01	36.85	400	196	A	V
		5729.09	63.83	-4.37	68.2	59.97	33.67	7.06	36.87	400	196	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 HE80 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE80 Full CH 106 5530MHz		11060	46.83	-27.17	74	52.56	38.8	11.73	56.26	-	-	P	H
		16590	45.22	-22.98	68.2	48.86	38	14	55.64	-	-	P	H
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		11060	46.52	-27.48	74	52.25	38.8	11.73	56.26	-	-	P	V
		16590	45.1	-23.1	68.2	48.74	38	14	55.64	-	-	P	V
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													V
													V



TEL : 886-3-327-0868
FAX : 886-3-327-0855



Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		5456.86	51.48	-22.52	74	48.22	33.1	7.01	36.85	203	268	P	H
		5465.05	51.7	-16.5	68.2	48.43	33.1	7.01	36.84	203	268	P	H
		5452.57	42.36	-11.64	54	39.1	33.1	7.01	36.85	203	268	A	H
	*	5720	114.17	-	-	110.36	33.62	7.06	36.87	203	268	P	H
	*	5720	107.52	-	-	103.71	33.62	7.06	36.87	203	268	A	H
		5875	54.62	-13.58	68.2	50.06	34.35	7.12	36.91	203	268	P	H
		5434.63	52.23	-21.77	74	49.01	33.07	7.01	36.86	400	190	P	V
		5466.22	53.42	-14.78	68.2	50.15	33.1	7.01	36.84	400	190	P	V
		5458.03	43.23	-10.77	54	39.97	33.1	7.01	36.85	400	190	A	V
	*	5720	117.55	-	-	113.74	33.62	7.06	36.87	400	190	P	V
	*	5720	111.27	-	-	107.46	33.62	7.06	36.87	400	190	A	V
		5878.75	57.44	-10.76	68.2	52.86	34.37	7.12	36.91	400	190	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



TEL : 886-3-327-0868
FAX : 886-3-327-0855



Band 3 - Straddle Channel
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT20 CH 144 5720MHz		5420.98	51.62	-22.38	74	48.44	33.04	7.01	36.87	308	265	P	H
		5462.32	51.02	-17.18	68.2	47.76	33.1	7.01	36.85	308	265	P	H
		5456.47	42.57	-11.43	54	39.31	33.1	7.01	36.85	308	265	A	H
	*	5720	114.45	-	-	110.64	33.62	7.06	36.87	308	265	P	H
	*	5720	108.14	-	-	104.33	33.62	7.06	36.87	308	265	A	H
		5854.75	57.32	-10.88	68.2	52.88	34.23	7.12	36.91	308	265	P	H
		5448.28	51.45	-22.55	74	48.2	33.1	7.01	36.86	392	320	P	V
		5467	52.43	-15.77	68.2	49.16	33.1	7.01	36.84	392	320	P	V
		5456.08	42.76	-11.24	54	39.5	33.1	7.01	36.85	392	320	A	V
	*	5720	117.66	-	-	113.85	33.62	7.06	36.87	392	320	P	V
	*	5720	112.76	-	-	108.95	33.62	7.06	36.87	392	320	A	V
		5857	64.85	-3.35	68.2	60.4	34.24	7.12	36.91	392	320	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



TEL : 886-3-327-0868
FAX : 886-3-327-0855



Band 3 - Straddle Channel
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT40 CH 142 5710MHz		5434.24	52.27	-21.73	74	49.05	33.07	7.01	36.86	393	226	P	H
		5465.83	51.51	-16.69	68.2	48.24	33.1	7.01	36.84	393	226	P	H
		5459.98	42.7	-11.3	54	39.44	33.1	7.01	36.85	393	226	A	H
	*	5710	111.32	-	-	107.58	33.56	7.05	36.87	393	226	P	H
	*	5710	104.26	-	-	100.52	33.56	7.05	36.87	393	226	A	H
		5855.25	59.31	-8.89	68.2	54.87	34.23	7.12	36.91	393	226	P	H
		5448.28	52.45	-21.55	74	49.2	33.1	7.01	36.86	400	47	P	V
		5462.32	52.24	-15.96	68.2	48.98	33.1	7.01	36.85	400	47	P	V
		5459.98	43.01	-10.99	54	39.75	33.1	7.01	36.85	400	47	A	V
	*	5710	115.1	-	-	111.36	33.56	7.05	36.87	400	47	P	V
	*	5710	108.17	-	-	104.43	33.56	7.05	36.87	400	47	A	V
		5860.75	65.76	-2.44	68.2	61.29	34.26	7.12	36.91	400	47	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 VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 VHT40 CH 142 5710MHz		11420	46.45	-27.55	74	51.76	38.96	11.8	56.07	-	-	P	H
		17130	47.47	-20.73	68.2	51.49	38.16	14.16	56.34	-	-	P	H
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802.11ac VHT40 CH 142 5710MHz		11420	46.17	-27.83	74	51.48	38.96	11.8	56.07	-	-	P	V
		17130	46.79	-21.41	68.2	50.81	38.16	14.16	56.34	-	-	P	V
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Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
Remark	3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



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

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5458.42	50.29	-23.71	74	47.03	33.1	7.01	36.85	394	53	P	H
		5467.78	50.34	-17.86	68.2	47.07	33.1	7.01	36.84	394	53	P	H
		5456.47	40.04	-13.96	54	36.78	33.1	7.01	36.85	394	53	A	H
	*	5690	106.89	-	-	103.27	33.44	7.05	36.87	394	53	P	H
	*	5690	100.36	-	-	96.74	33.44	7.05	36.87	394	53	A	H
		5850.1	60.71	-7.49	68.2	56.29	34.2	7.12	36.9	394	53	P	H
		5436.58	47.86	-26.14	74	44.64	33.07	7.01	36.86	380	315	P	V
		5466.22	47.23	-20.97	68.2	43.96	33.1	7.01	36.84	380	315	P	V
		5443.6	38.45	-15.55	54	35.21	33.09	7.01	36.86	380	315	A	V
	*	5690	109.74	-	-	106.12	33.44	7.05	36.87	380	315	P	V
	*	5690	103.4	-	-	99.78	33.44	7.05	36.87	380	315	A	V
		5859.7	66.77	-1.43	68.2	62.3	34.26	7.12	36.91	380	315	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. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		11380	45.91	-28.09	74	51.21	39	11.79	56.09	-	-	P	H
		17070	45.85	-22.35	68.2	49.69	38.28	14.12	56.24	-	-	P	H
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		11380	47.62	-26.38	74	52.92	39	11.79	56.09	-	-	P	V
		17070	46.2	-22	68.2	50.04	38.28	14.12	56.24	-	-	P	V
													V
													V
													V
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													V
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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.												



Band 3 - Straddle Channel
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE20 Full CH 144 5720MHz		5420.59	44.93	-29.07	74	41.75	33.04	7.01	36.87	378	262	P	H
		5463.1	44.04	-24.16	68.2	40.78	33.1	7.01	36.85	378	262	P	H
		5456.86	36.78	-17.22	54	33.52	33.1	7.01	36.85	378	262	A	H
	*	5720	114.72	-	-	110.91	33.62	7.06	36.87	378	262	P	H
	*	5720	107.44	-	-	103.63	33.62	7.06	36.87	378	262	A	H
		5881	49.91	-18.29	68.2	45.31	34.39	7.12	36.91	378	262	P	H
		5433.46	46.09	-27.91	74	42.88	33.07	7.01	36.87	400	53	P	V
		5470.12	45.71	-104.29	150	42.44	33.1	7.01	36.84	400	53	P	V
		5455.69	36.94	-17.06	54	33.68	33.1	7.01	36.85	400	53	A	V
	*	5720	115.14	-	-	111.33	33.62	7.06	36.87	400	53	P	V
	*	5720	109.45	-	-	105.64	33.62	7.06	36.87	400	53	A	V
		5867.5	57.03	-11.17	68.2	52.51	34.31	7.12	36.91	400	53	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11ax HE20 Full (Harmonic @ 3m)

TEL : 886-3-327-0868
FAX : 886-3-327-0855



Band 3 - Straddle Channel
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE40 Full CH 142 5710MHz		5454.91	45.03	-28.97	74	41.77	33.1	7.01	36.85	253	271	P	H
		5466.22	46.95	-21.25	68.2	43.68	33.1	7.01	36.84	253	271	P	H
		5456.08	37.47	-16.53	54	34.21	33.1	7.01	36.85	253	271	A	H
	*	5710	109.13	-	-	105.39	33.56	7.05	36.87	253	271	P	H
	*	5710	102.35	-	-	98.61	33.56	7.05	36.87	253	271	A	H
		5886.75	59	-9.2	68.2	54.36	34.42	7.13	36.91	253	271	P	H
		5459.98	47.08	-26.92	74	43.82	33.1	7.01	36.85	382	46	P	V
		5467	45.89	-22.31	68.2	42.62	33.1	7.01	36.84	382	46	P	V
		5459.98	38.6	-15.4	54	35.34	33.1	7.01	36.85	382	46	A	V
	*	5710	115	-	-	111.26	33.56	7.05	36.87	382	46	P	V
	*	5710	107.42	-	-	103.68	33.56	7.05	36.87	382	46	A	V
		5856	67.15	-1.05	68.2	62.7	34.24	7.12	36.91	382	46	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI 802.11ax HE40 Full (Harmonic @ 3m)

TEL : 886-3-327-0868
FAX : 886-3-327-0855



Band 3 Straddle Channel
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE80 Full CH 138 5690MHz		5452.57	55.75	-18.25	74	52.49	33.1	7.01	36.85	394	238	P	H
		5461.93	55.06	-13.14	68.2	51.8	33.1	7.01	36.85	394	238	P	H
		5453.35	42.95	-11.05	54	39.69	33.1	7.01	36.85	394	238	A	H
	*	5690	110.99	-	-	107.37	33.44	7.05	36.87	394	238	P	H
	*	5690	102.65	-	-	99.03	33.44	7.05	36.87	394	238	A	H
		5851.6	61.53	-6.67	68.2	57.1	34.21	7.12	36.9	394	238	P	H
		5435.8	56.59	-17.41	74	53.37	33.07	7.01	36.86	392	143	P	V
		5461.93	58.86	-9.34	68.2	55.6	33.1	7.01	36.85	392	143	P	V
		5454.91	47.52	-6.48	54	44.26	33.1	7.01	36.85	392	143	A	V
	*	5690	111.76	-	-	108.14	33.44	7.05	36.87	392	143	P	V
	*	5690	104.66	-	-	101.04	33.44	7.05	36.87	392	143	A	V
		5853.4	67.66	-0.54	68.2	63.22	34.22	7.12	36.9	392	143	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 3 - Straddle Channel
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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 HE80 Full CH 138 5690MHz		11380	46.52	-27.48	74	51.82	39	11.79	56.09	-	-	P	H
		17070	45.98	-22.22	68.2	49.82	38.28	14.12	56.24	-	-	P	H
													H
													H
													H
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		11380	46.1	-27.9	74	51.4	39	11.79	56.09	-	-	P	V
		17070	46.67	-21.53	68.2	50.51	38.28	14.12	56.24	-	-	P	V
													V
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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.												



WIFI 802.11ax HE20 Full (SHF @ 1m)

TEL : 886-3-327-0868
FAX : 886-3-327-0855

**WIFI 802.11ax HE20 Full (LF @ 3m)**

TEL : 886-3-327-0868
FAX : 886-3-327-0855



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 Margin 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	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a		5150	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 36		5150	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H
5180MHz													

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

For Peak Limit @ 5150MHz:

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. Margin (dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 5150MHz:

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. Margin (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

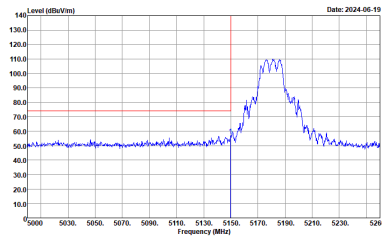
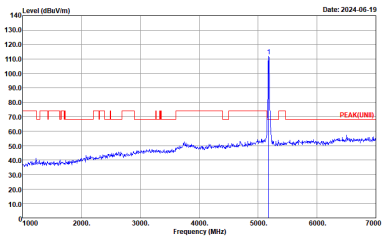
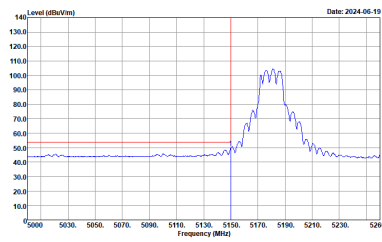
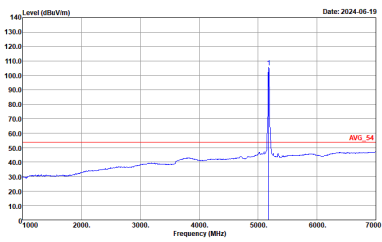
Test Engineer :	Rain Lee, Jacky Hong, and Mancy Chou	Temperature :	20~26°C
		Relative Humidity :	40~65%

Note symbol

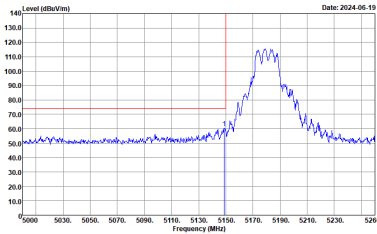
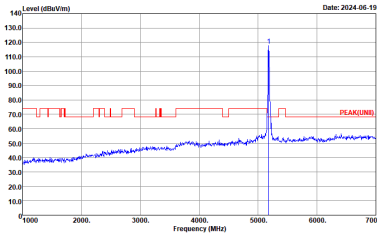
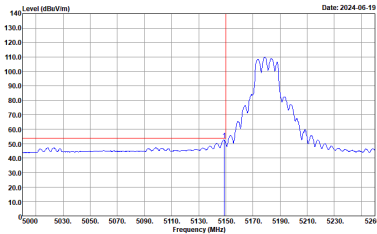
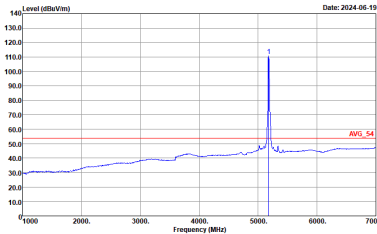
-L	Low channel location
-R	High channel location

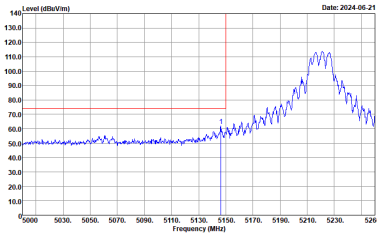
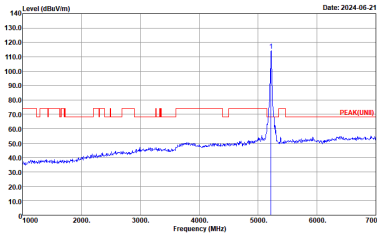
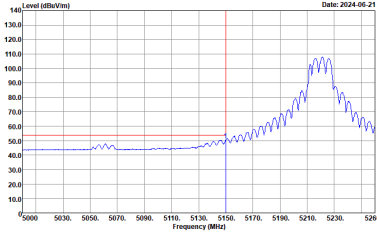
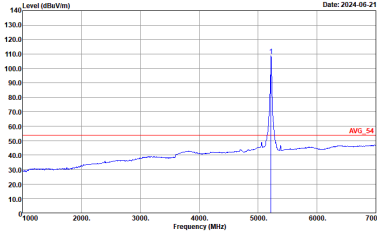
MIMO<Ant. 1+2>

Band 1 - 5150~5250MHz WIFI 802.11a (Band Edge @ 3m)

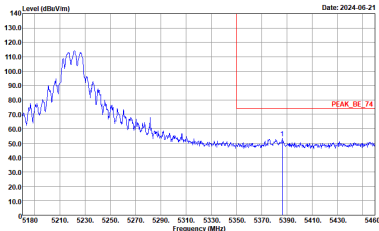
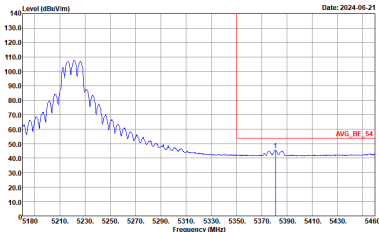
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto

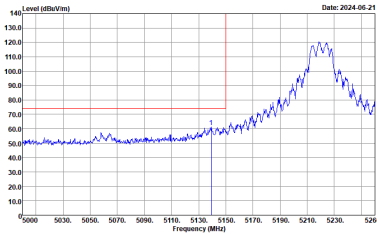
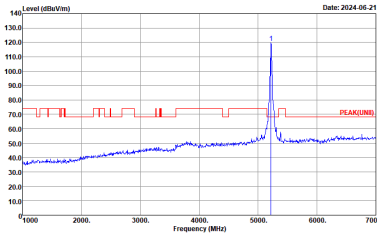
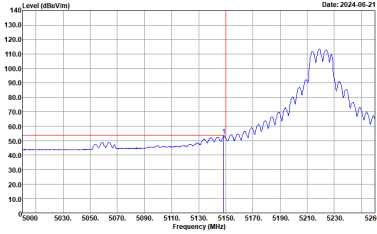
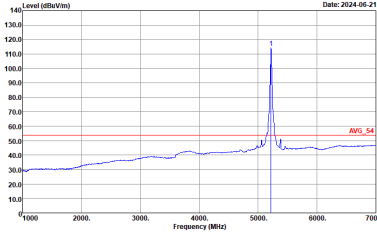


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto

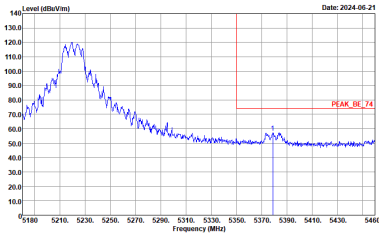
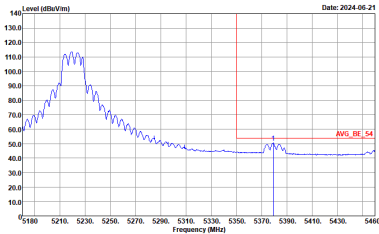
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(FUN1) 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto

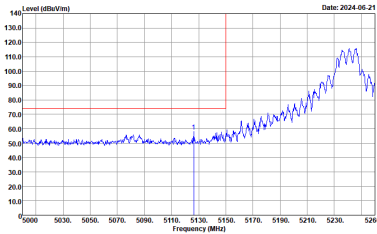
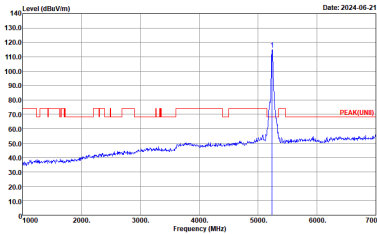
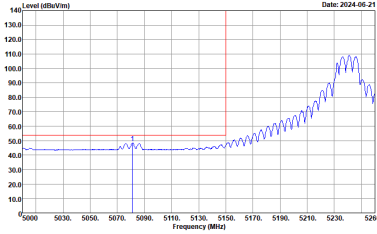
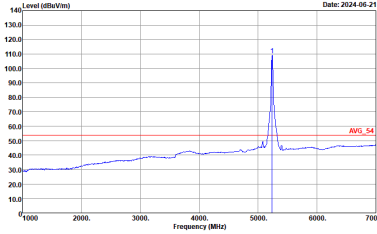


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

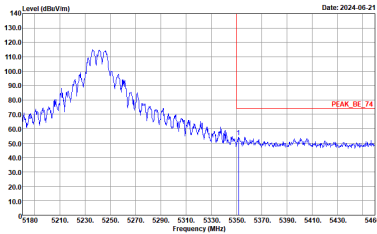
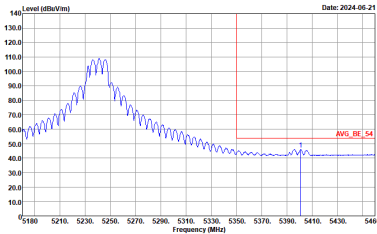
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto



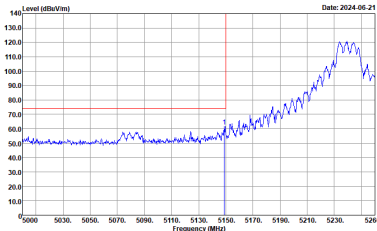
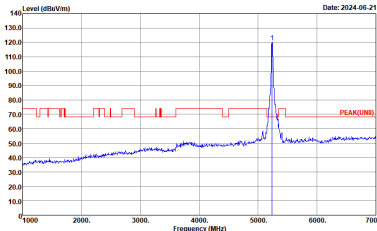
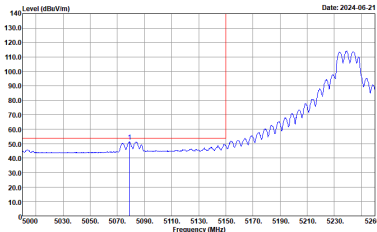
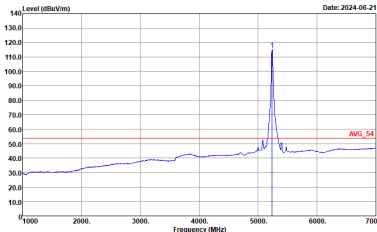
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

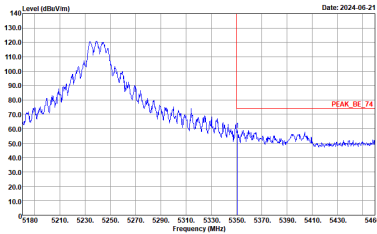
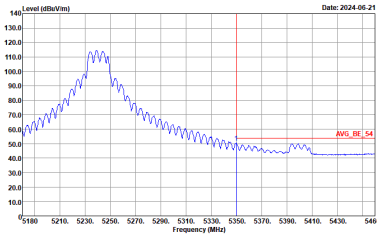
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_91200_1326 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000kHz VBW:1000kHz SWT:Auto	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000kHz VBW:1000kHz SWT:Auto



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

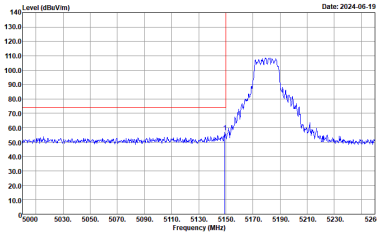
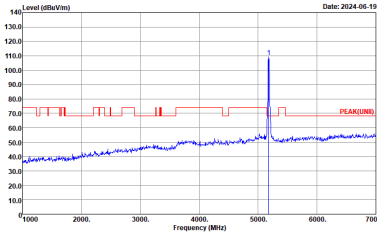
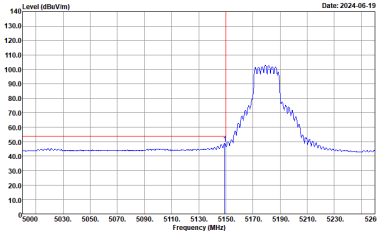
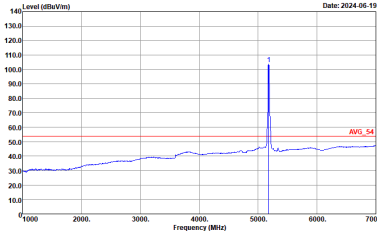


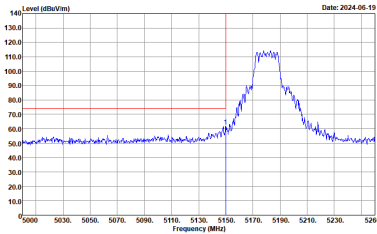
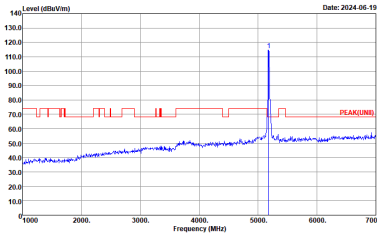
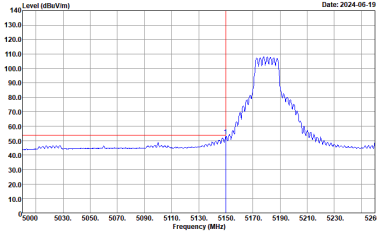
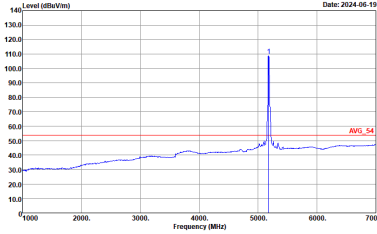
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto

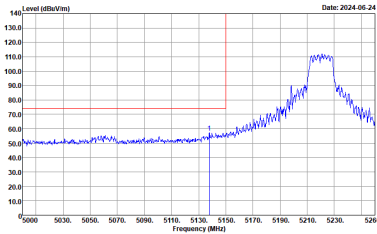
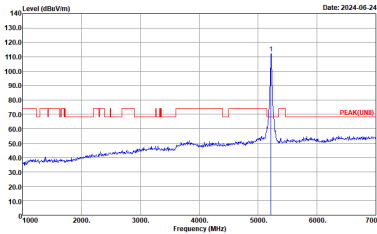
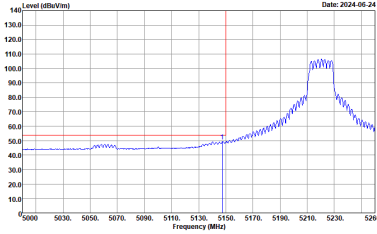
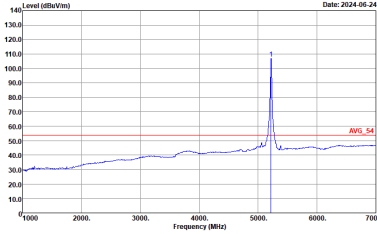
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

Band 1 5150~5250MHz

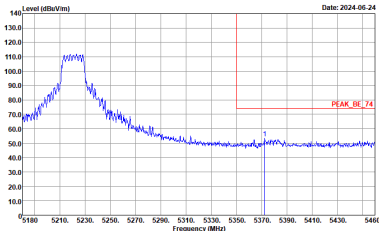
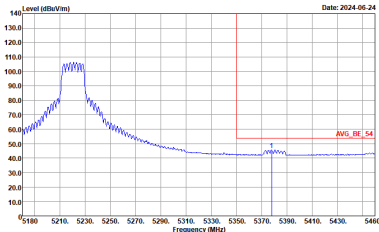
WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNII) 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto

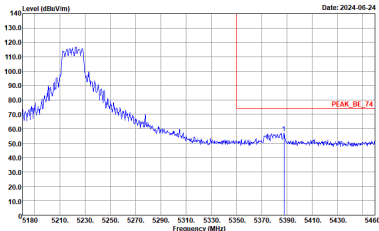
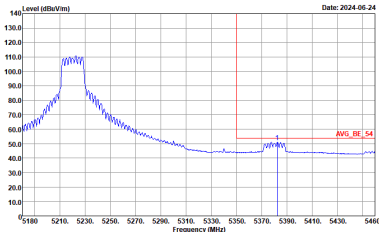


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

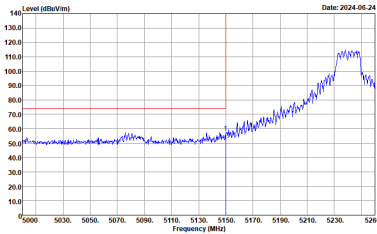
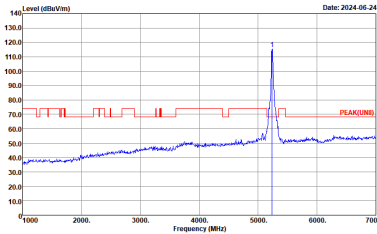
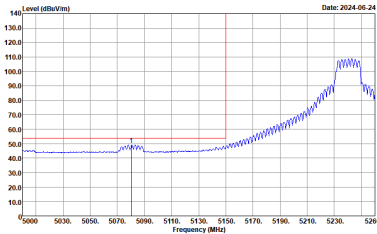
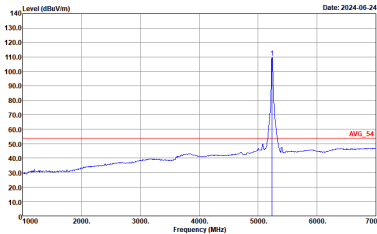


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto

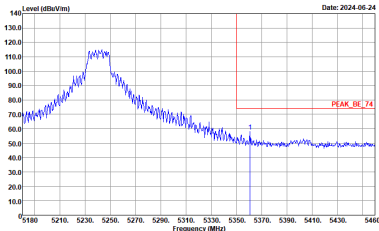
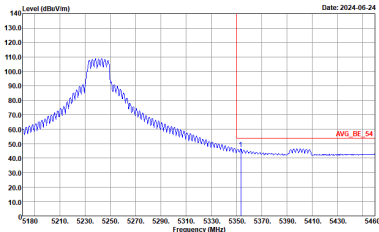


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000kHz VBW:10000kHz SWT:Auto	Left blank

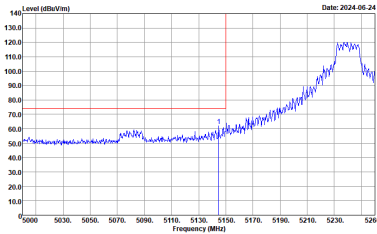
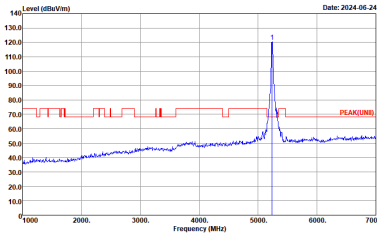
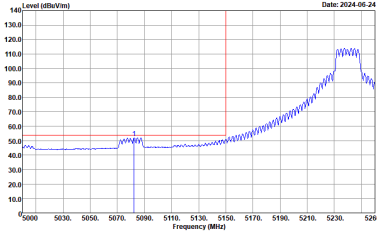
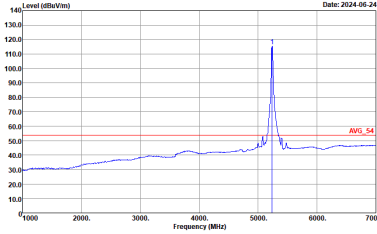


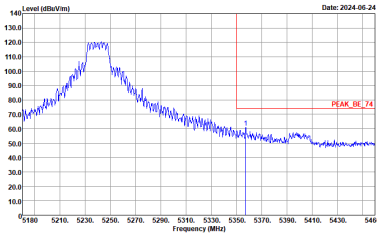
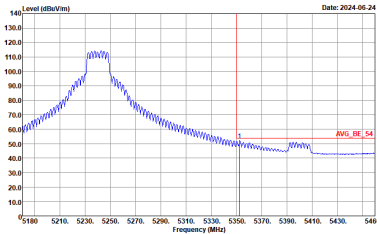
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto



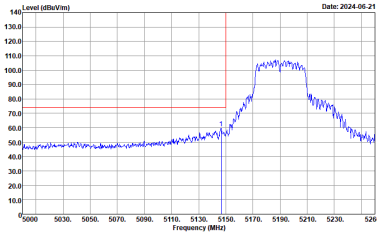
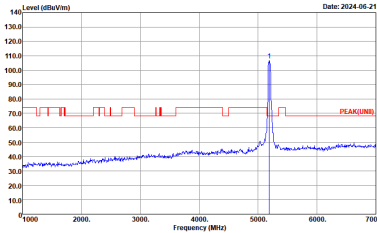
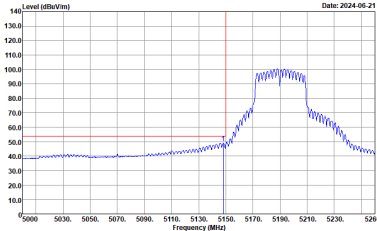
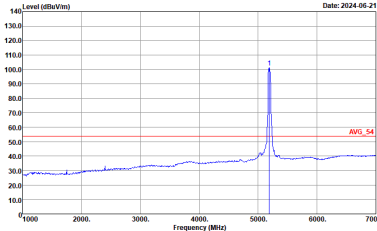
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank



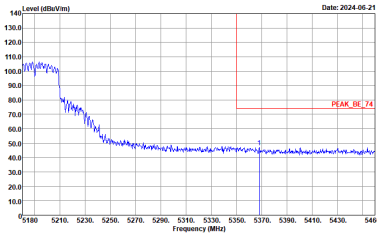
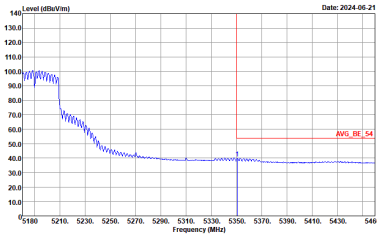
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1326 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000kHz VBW:1000kHz SWT:Auto	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL RBW:1000.000kHz VBW:1000kHz SWT:Auto

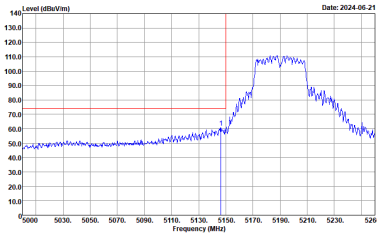
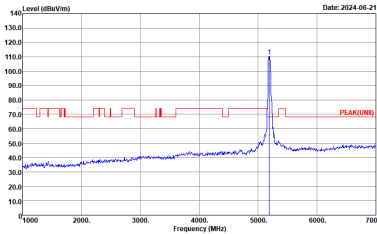
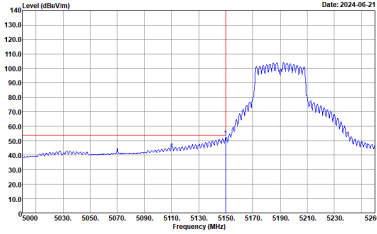
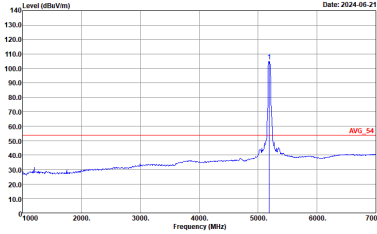
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

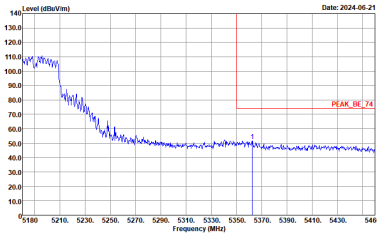
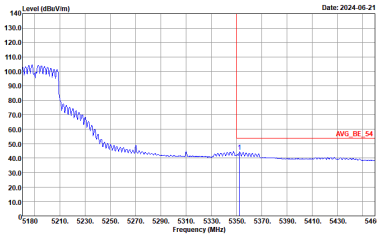
Band 1 5150~5250MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

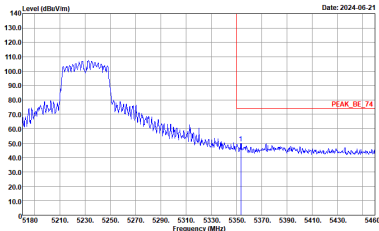
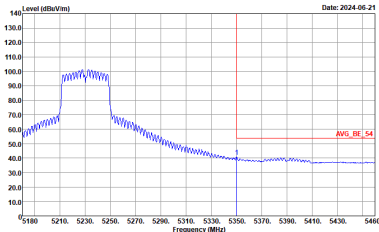
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1+2	Horizontal	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto

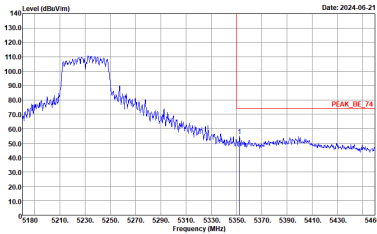
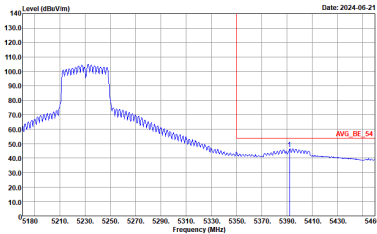


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

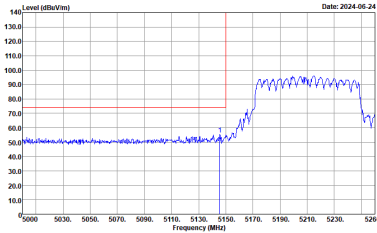
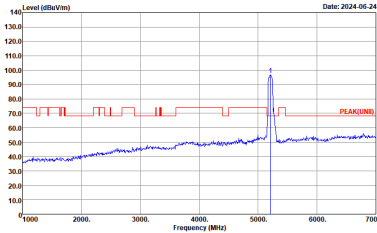
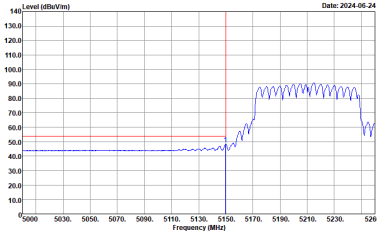
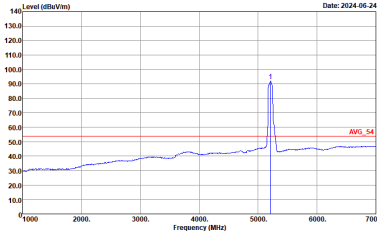


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - L	
1+2	Vertical	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto

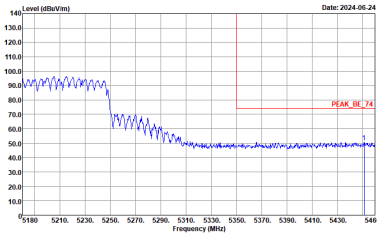
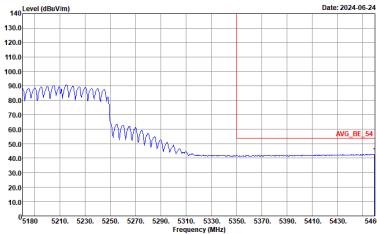


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH46 5230MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

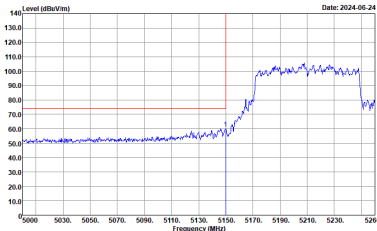
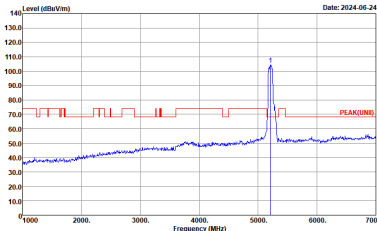
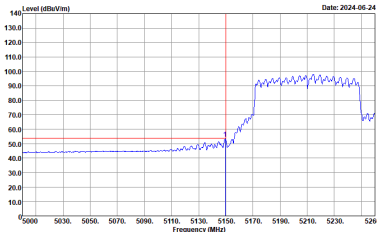
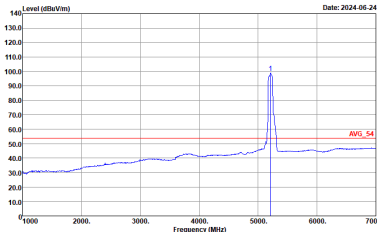
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

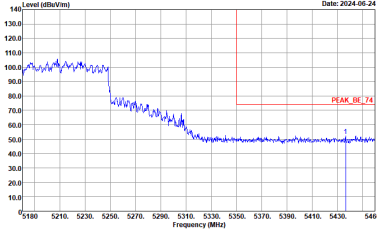
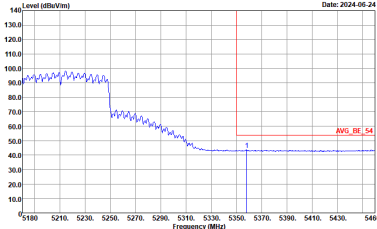


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

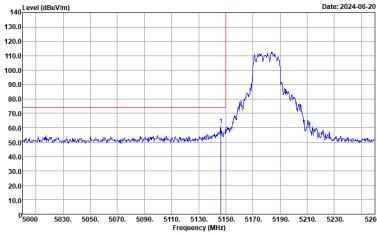
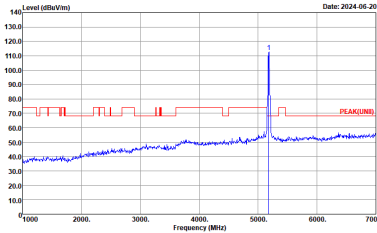
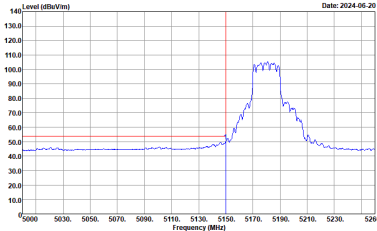
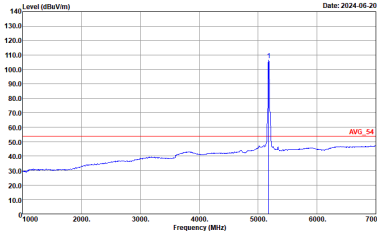


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto

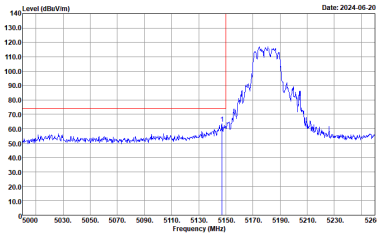
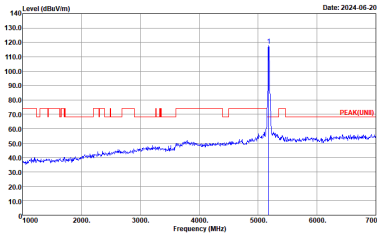
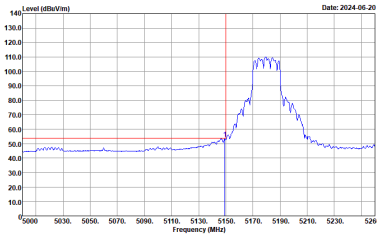
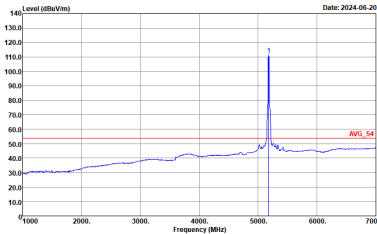


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

Band 1 5150~5250MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

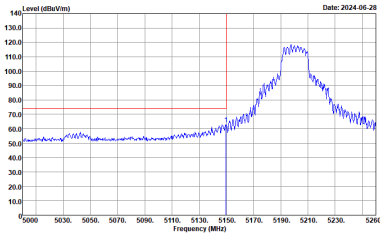
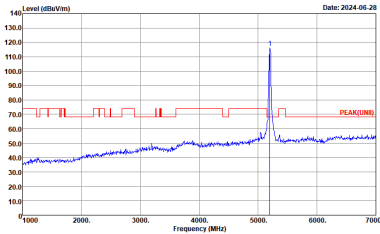
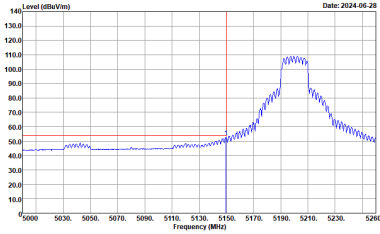
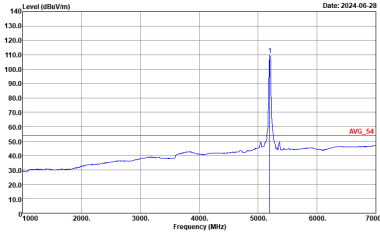


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH40 5200MHz	
1+2	Horizontal	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto

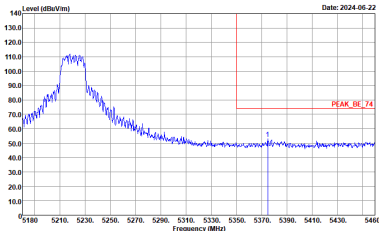
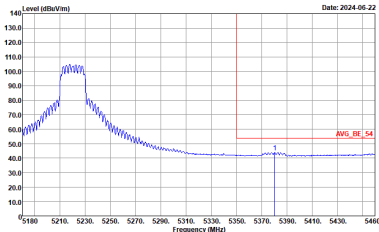


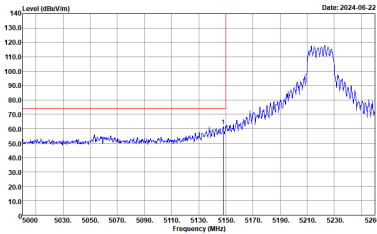
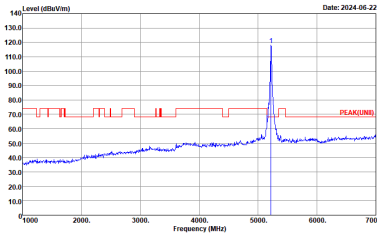
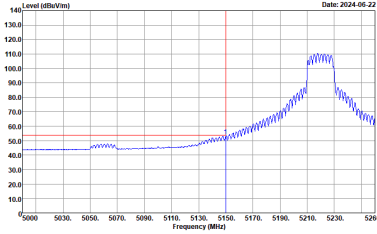
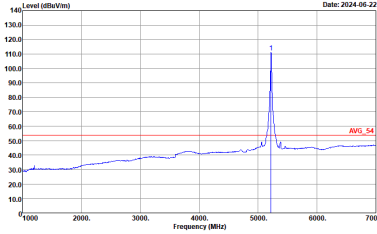
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH40 5200MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto



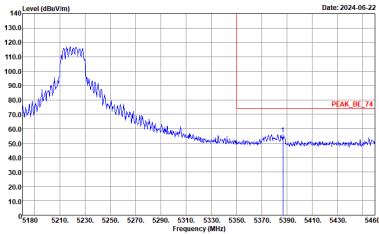
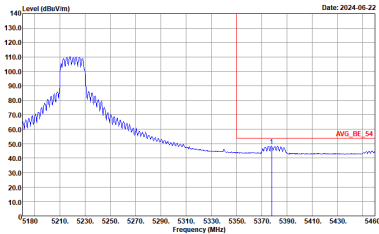
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
1+2	Horizontal	Fundamental
Peak	Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto



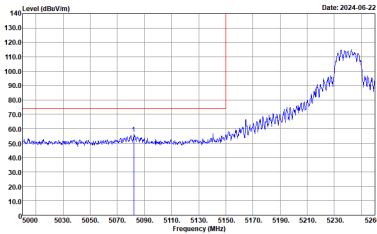
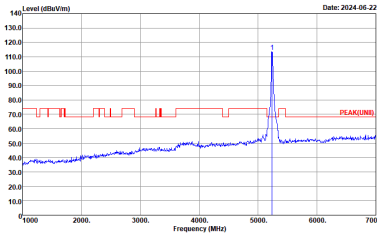
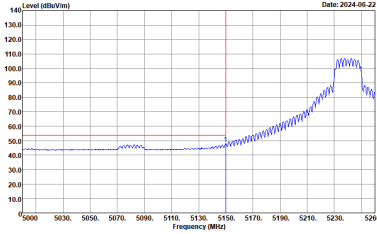
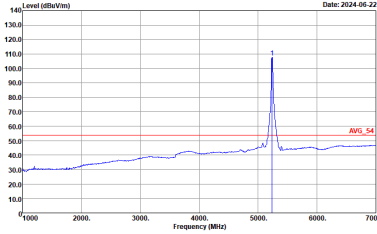
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(FUND) 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto

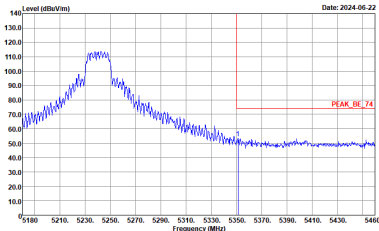
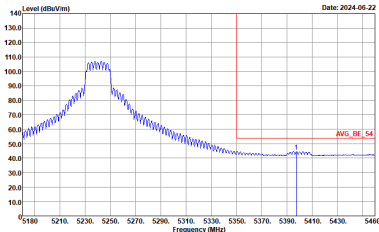


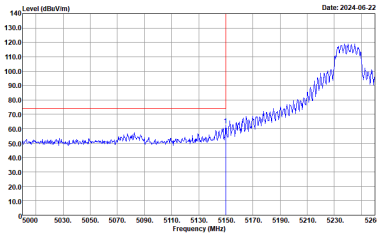
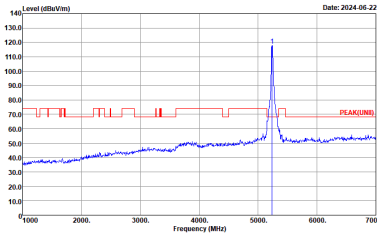
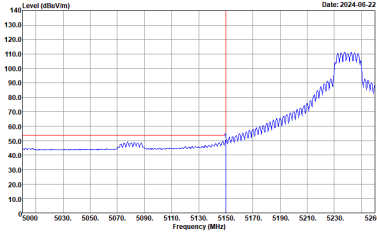
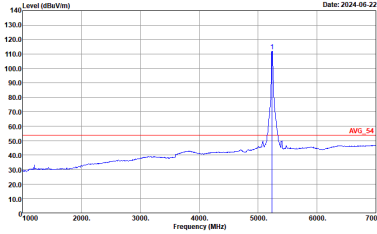
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank



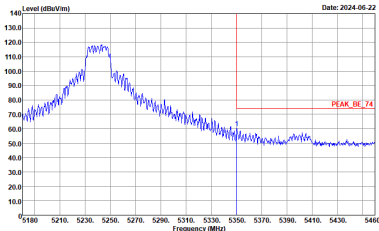
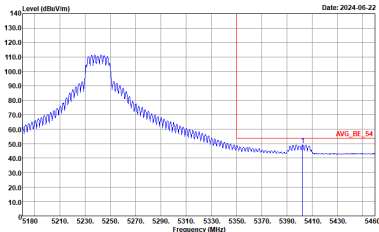
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto



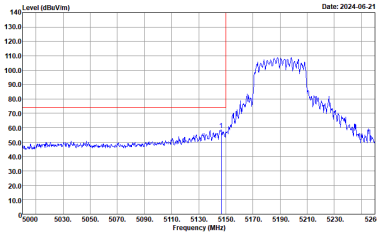
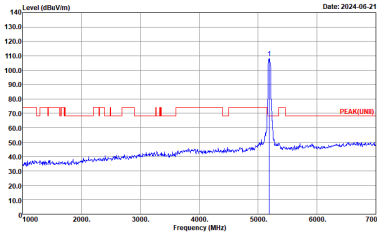
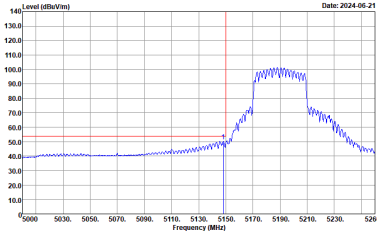
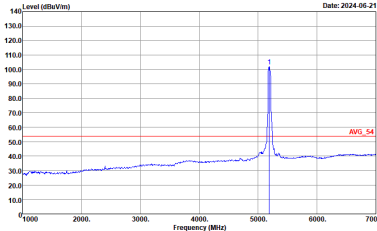
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(LINE) 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1326 VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
1+2	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 5150~5250MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : PEAK(UNIT) 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto