



FCC RADIO TEST REPORT

FCC ID : E2K-P152G006
Equipment : Portable Computer
Brand Name : DELL
Model Name : P152G
Applicant : DELL Inc.
One Dell Way, Round Rock, TX 78682, USA
Manufacturer : DELL Inc.
One Dell Way, Round Rock, TX 78682, USA
Standard : FCC Part 15 Subpart E §15.407

The product was received on Jul. 13, 2022 and testing was performed from Sep. 01, 2022 to Oct. 03, 2022. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

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



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History of this test report

Report No.	Version	Description	Issue Date
FR270404D	01	Initial issue of report	Oct. 14, 2022

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	1.33 dB under the limit at 5350.080 MHz
3.5	15.207	AC Conducted Emission	Pass	10.13 dB under the limit at 0.170 MHz
3.6	15.203	Antenna Requirement	Pass	-

Declaration of Conformity:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
- The measurement uncertainty please refer to report "Uncertainty of Evaluation".

Comments and Explanations:

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

Reviewed by: Sheng Kuo

Report Producer: Michelle Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax and Wi-Fi 5GHz 802.11a/n/ac/ax.

Product Feature	
Sample 1	EUT with AWAN Antenna
Sample 2	EUT with Hong-Bo Antenna
Antenna Type	WLAN <Main>: PIFA Antenna <Aux.>: PIFA Antenna Bluetooth: PIFA Antenna

Antenna Information			
Vendor 1	Manufacturer	Hong-Bo	
	Antenna Type	PIFA Antenna	
	Part Number	260-24414 (DC33002QK0L)	260-24414 (DC33002QK0L)
	Peak gain (dBi)	Main Antenna :	Aux. Antenna :
		WLAN (5GHz B1): 2.63 WLAN (5GHz B2): 2.68 WLAN (5GHz B3): 2.91	WLAN (5GHz B1): 2.86 WLAN (5GHz B2): 2.74 WLAN (5GHz B3): 2.74
Vendor 2	Manufacturer	AWAN	
	Antenna Type	PIFA Antenna	
	Part Number	AYP6Y-200052 (DC33002QR0L)	AYP6Y-200052 (DC33002QR0L)
	Peak gain (dBi)	Main Antenna :	Aux. Antenna :
		WLAN (5GHz B1): 1.20 WLAN (5GHz B2): 1.35 WLAN (5GHz B3): 2.65	WLAN (5GHz B1): 1.31 WLAN (5GHz B2): 1.59 WLAN (5GHz B3): 1.67

Remark: The EUT's information above is declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.1.1 Antenna 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.

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

where

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

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

N_{ANT} = the total number of antennas

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

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

Directional gain = $10 \cdot \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi

Where $G_1, G_2, \dots, G_N$ denote single antenna gain.

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	2.86	2.63	2.86	5.76	0.00	0.00
Band II	2.74	2.68	2.74	5.72	0.00	0.00
Band III	2.74	2.91	2.91	5.84	0.00	0.00

Calculation example:

If a device has two antenna, $G_{ANT1} = 2.86\text{dBi}$; $G_{ANT2} = 2.63\text{dBi}$

Directional gain of power measurement = $\max(2.86, 2.63) + 0 = 2.86\text{ dBi}$

Directional gain of PSD derived from formula which is

$$10 \times \log \left\{ \left[10^{\frac{2.86\text{ dBi}}{20}} + 10^{\frac{2.63\text{ dBi}}{20}} \right]^2 \right\} / 2$$

$$= 5.76\text{ dBi}$$

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

Remark: Ant. 1 means Aux. Antenna and Ant. 2 means Main Antenna.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. CO05-HY (TAF Code: 1190)
Remark	The Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. TH05-HY, 03CH20-HY

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

FCC designation No.: TW1190 and 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).
- 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

This device support 26/52/106/242/484/996-tone RU.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2018.

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The 242-tone RU is covered by 20MHz channel and 484-tone RU is covered by 40MHz channel and 996-tone RU is covered by 80MHz channel.

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

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

Single Mode

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

MIMO Mode

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

Test Cases	
AC Conducted Emission	Mode 1 : Bluetooth Link + WLAN (5GHz) Link + Adapter + USB HD*2 + Earphone for Sample 1

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

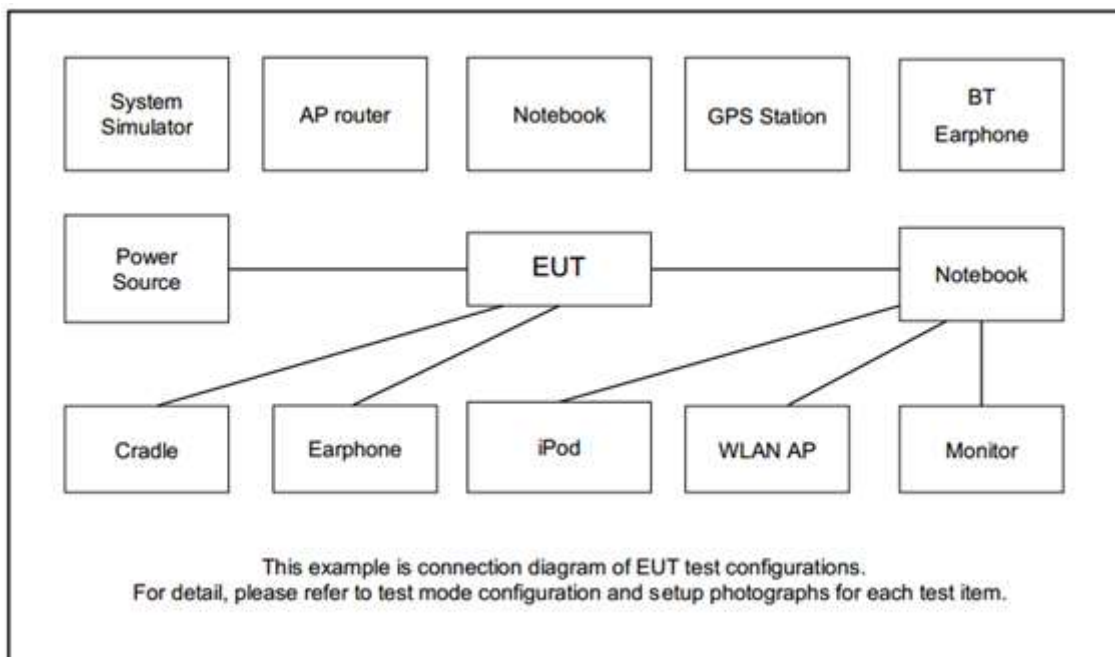
Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ax HE20	802.11ax HE20	802.11ax HE20
L	Low	36	52	100
M	Middle	44	60	116
H	High	48	64	140
Straddle		-	-	144

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz
		802.11ax 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.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude 5310	N/A	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
5.	USB HD	ADATA	HV620S-1T	FCC DoC	Shielded, 1.0m	N/A
6.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A



2.5 EUT Operation Test Setup

The RF test items, utility "QRCT 4.0.00206.0" was installed in EUT 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.

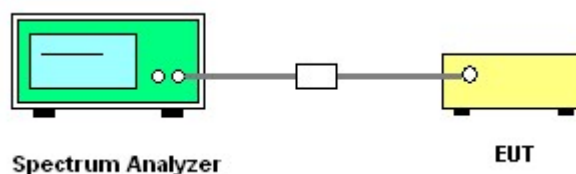
3.1.2 Measuring Instruments

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

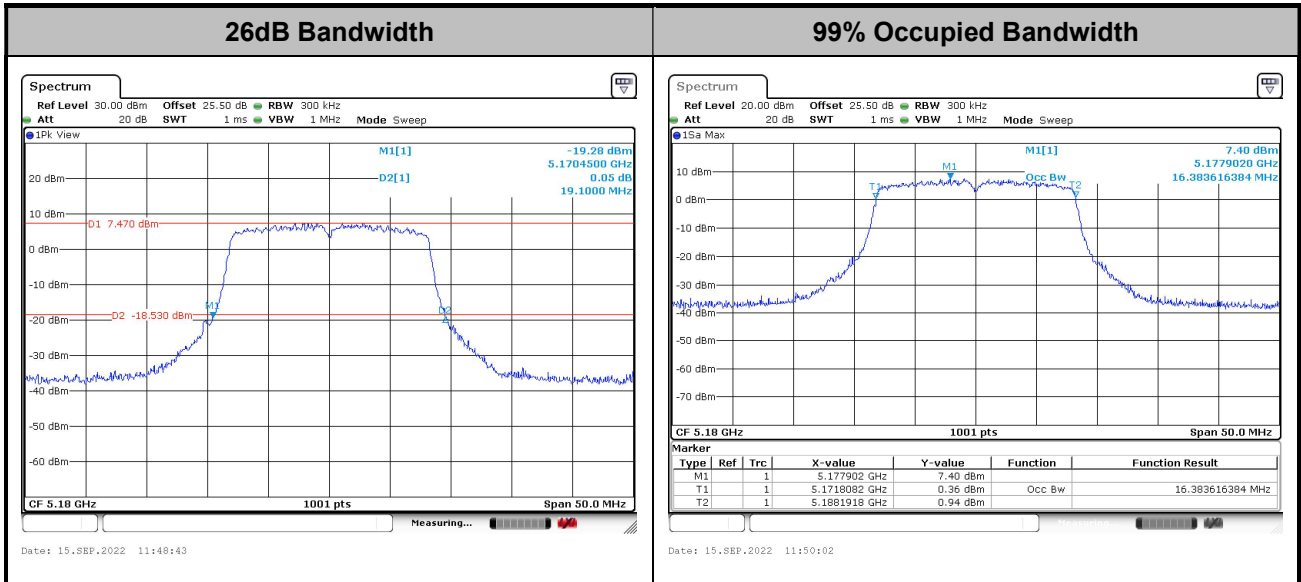


3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

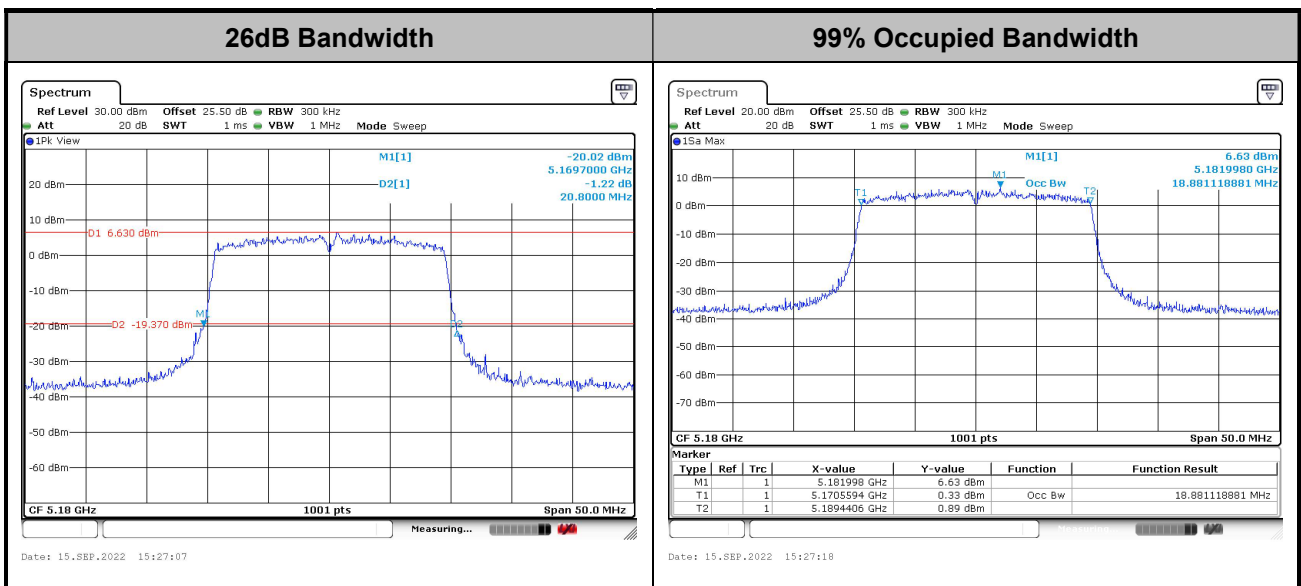
Please refer to Appendix A.

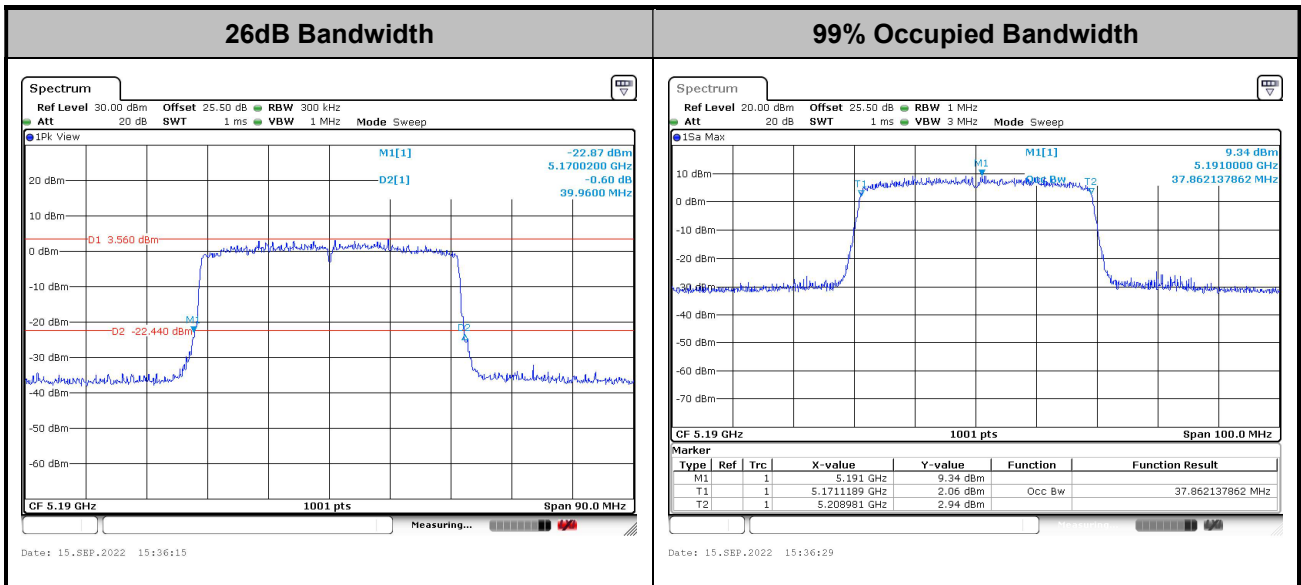
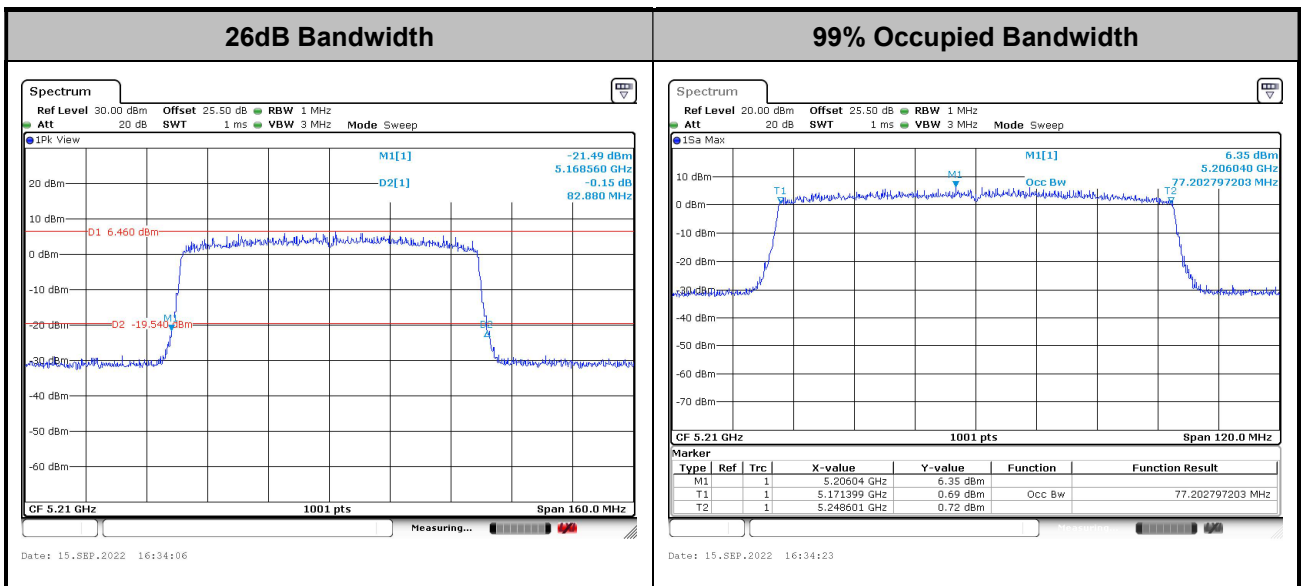


<802.11a>



<802.11ax HE20>



**<802.11ax HE40>****<802.11ax HE80>**

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

■ The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

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

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

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

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

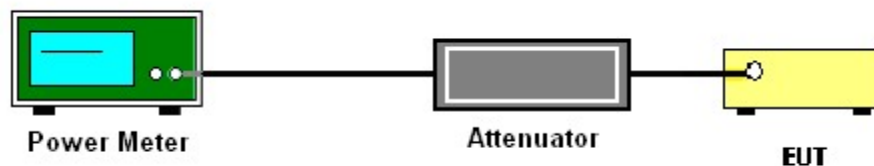
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

Section F) Maximum power spectral density.

Method SA-3

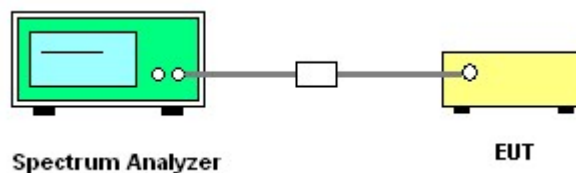
(power averaging (rms) detection with max hold):

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW $\geq$ 3 MHz.
 - Number of points in sweep $\geq$ 2 Span / RBW.
 - Sweep time $\leq$ (number of points in sweep) $\times$ T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Detector = power averaging (rms).
 - Trace mode = max hold.
 - Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
1. The RF output of EUT 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 PSD and record it.
 3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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

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

3.3.4 Test Setup



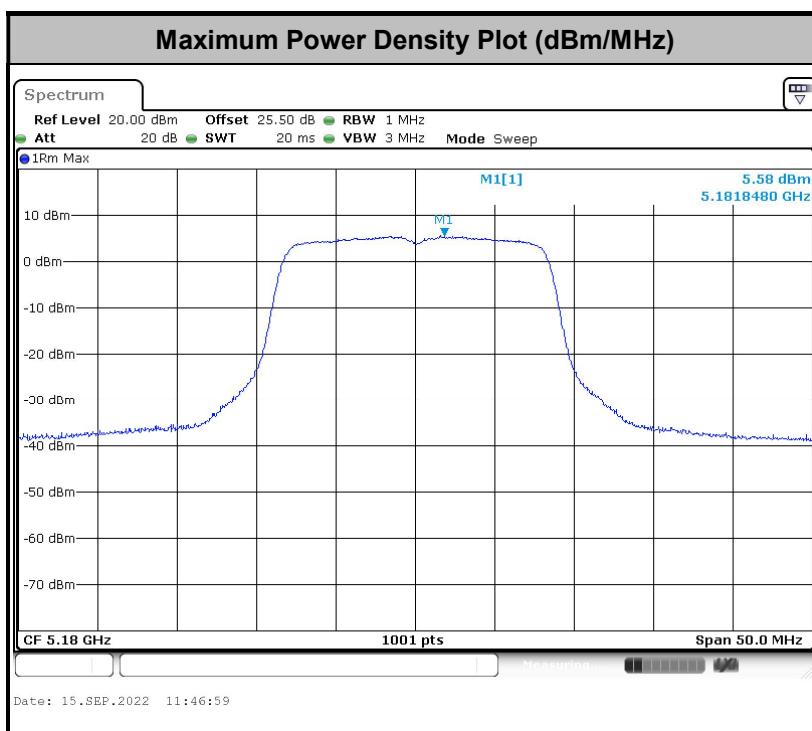
3.3.5 Test Result of Power Spectral Density

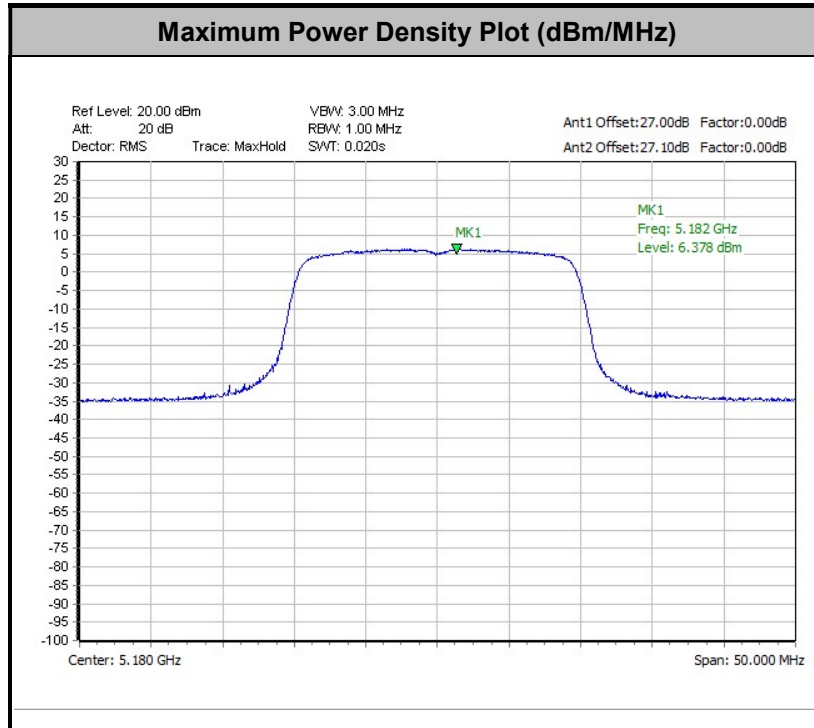
Please refer to Appendix A.



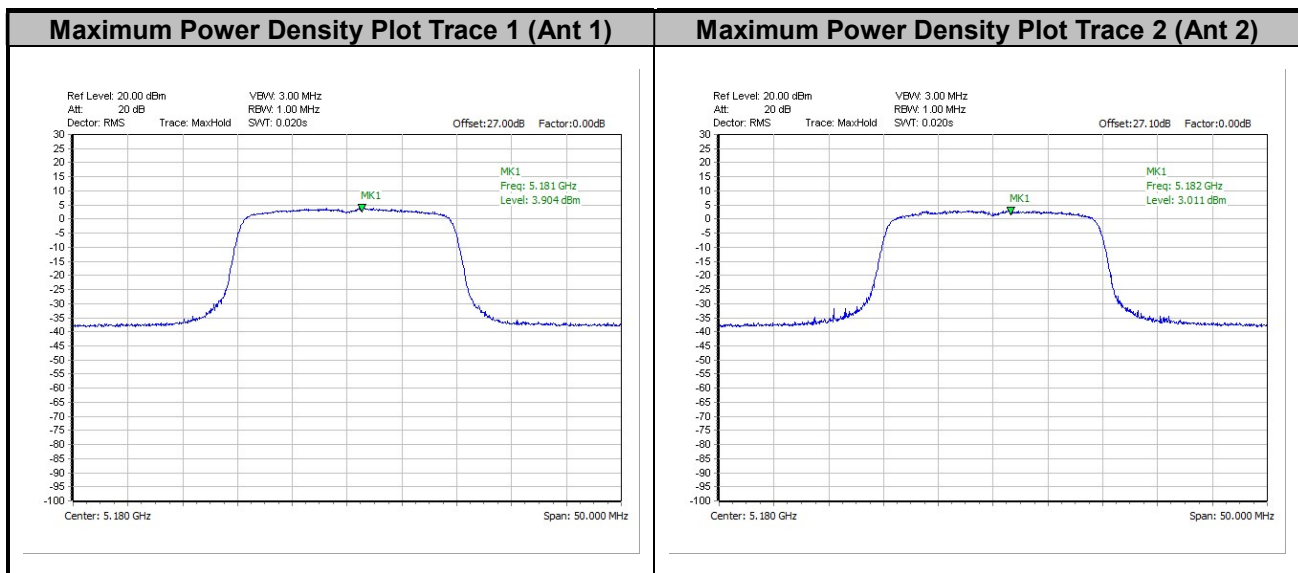
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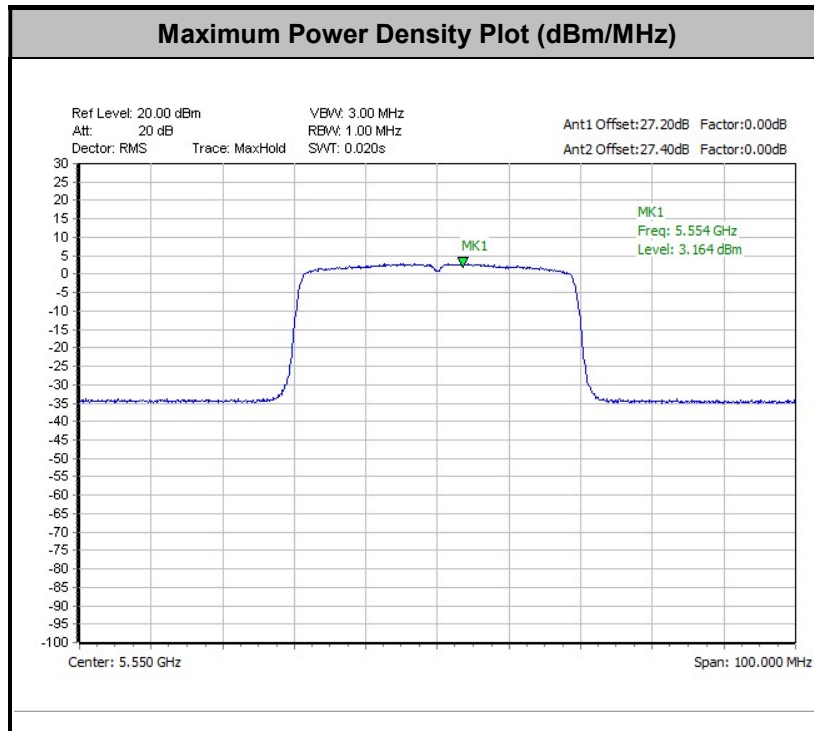
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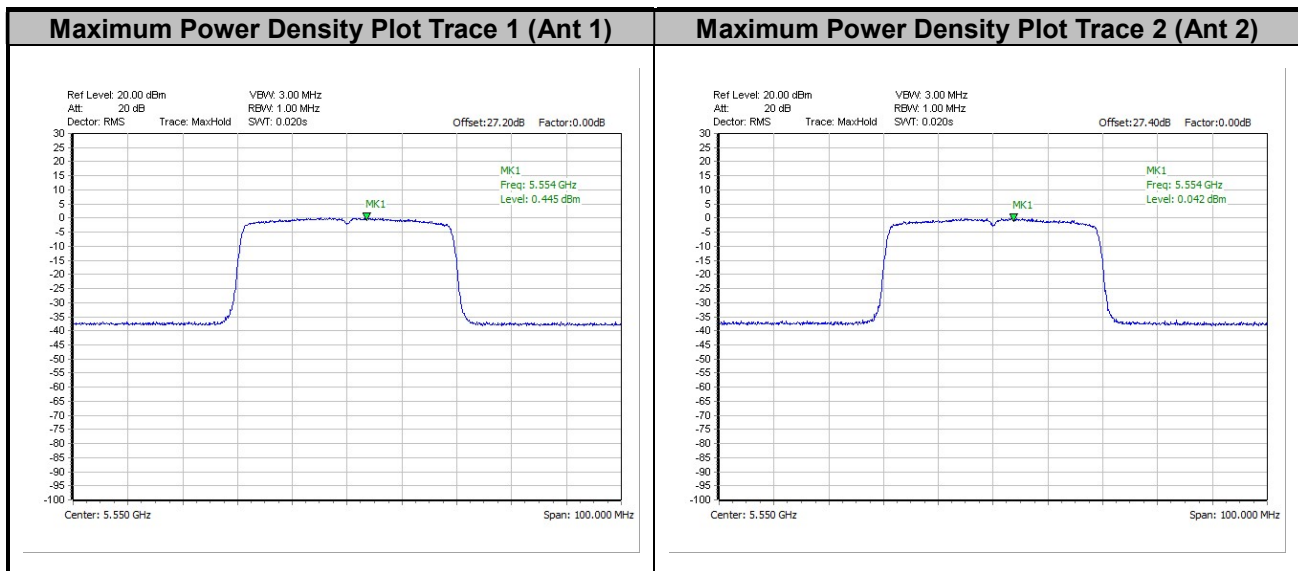
**<MIMO Mode>****<802.11ax HE20>**

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



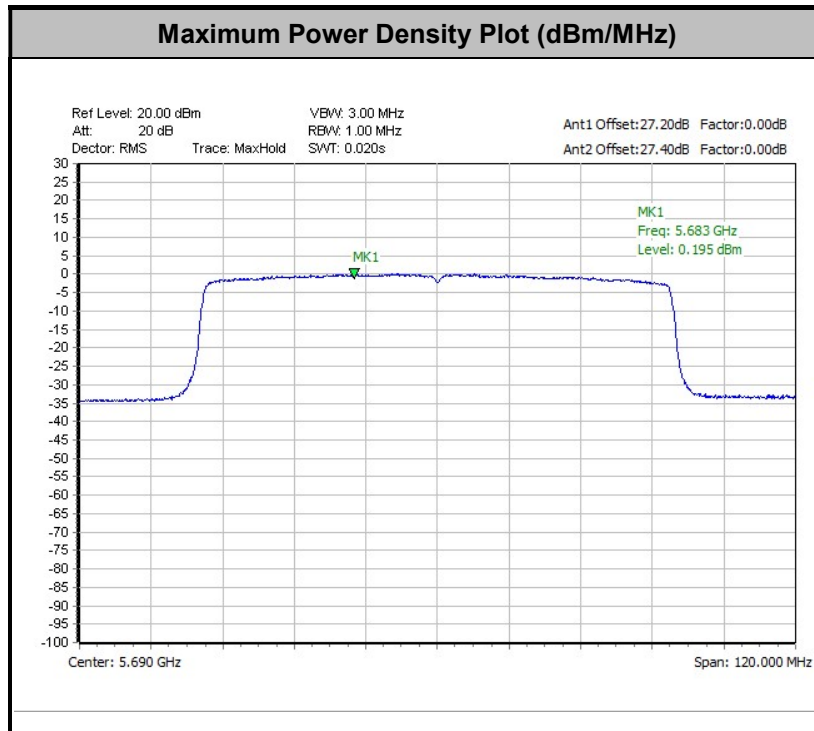
**<802.11ax HE40>**

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

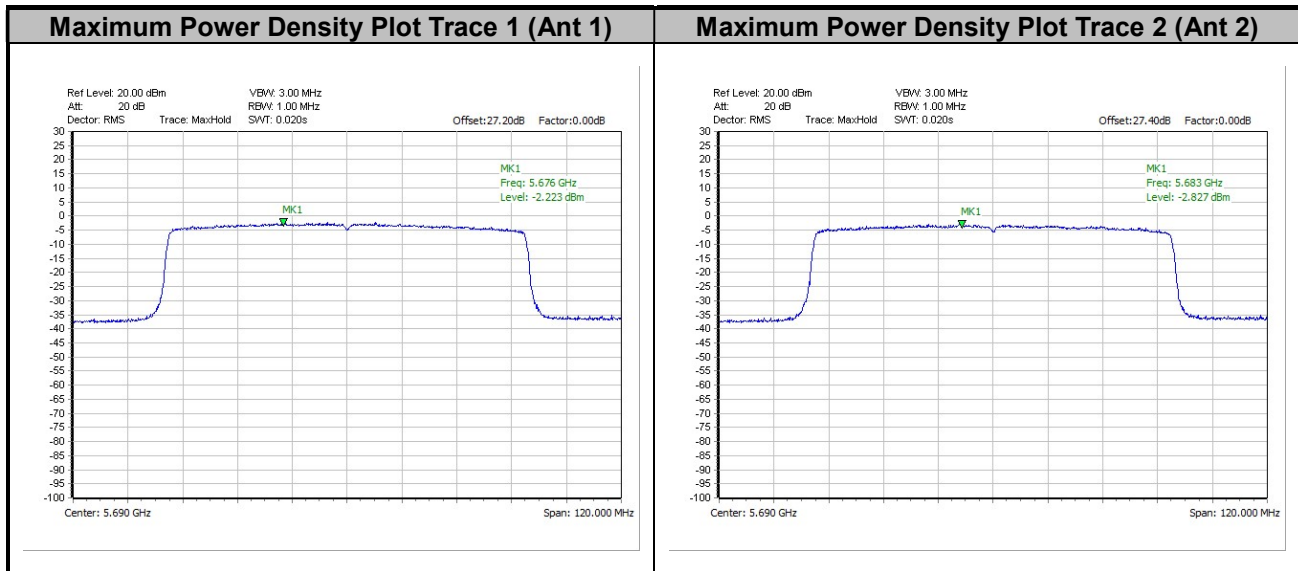




<802.11ax HE80>



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



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 (dBμV/m)
- 27	68.3

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

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.

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

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

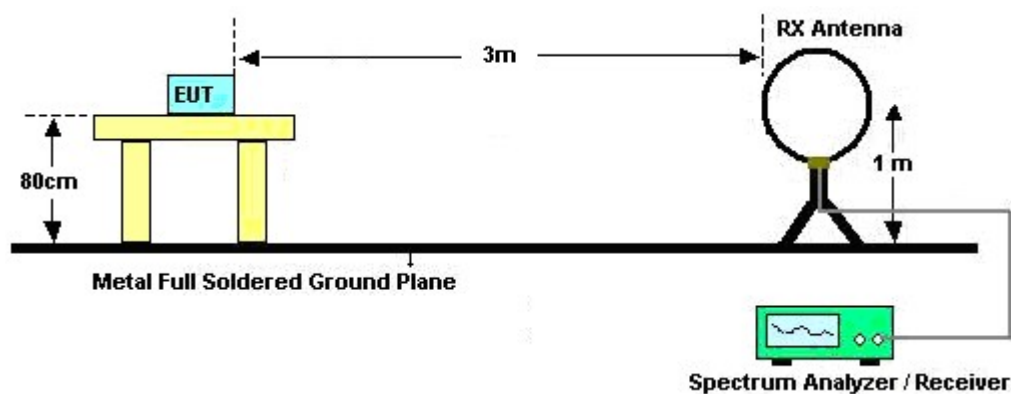
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- $VBW \geq 1/T$, 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.

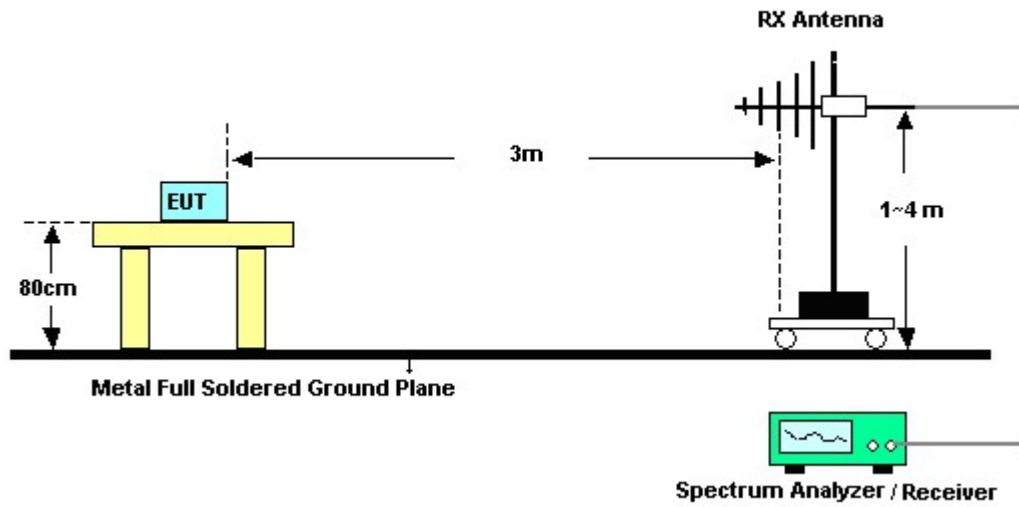
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna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

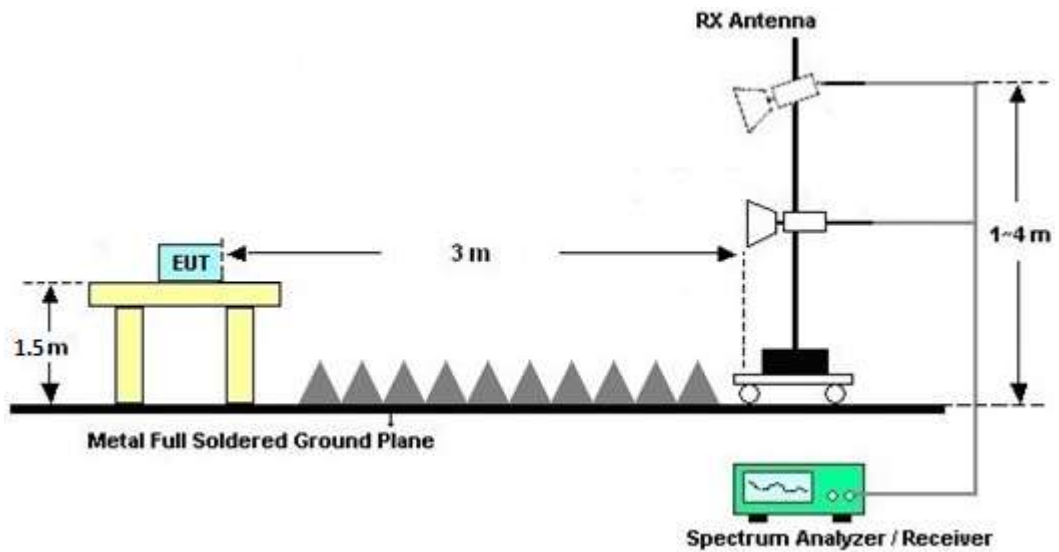
For radiated emissions below 30MHz



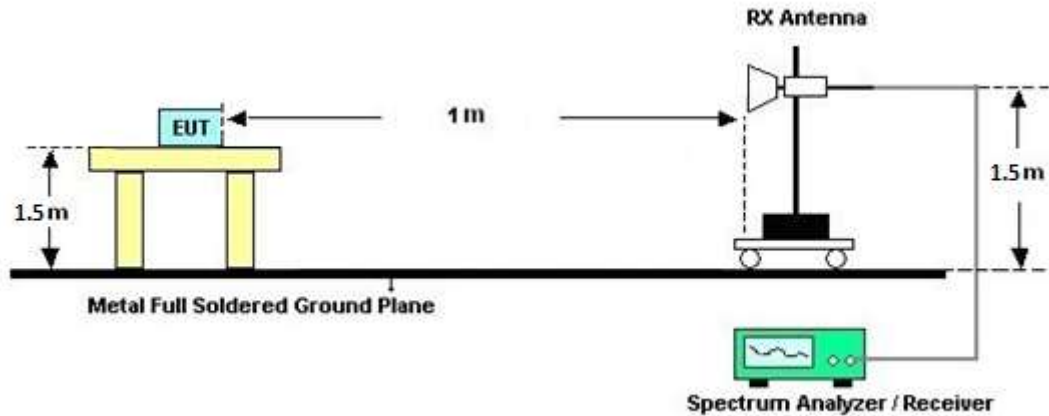
For radiated emissions from 30MHz to 1GHz



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.

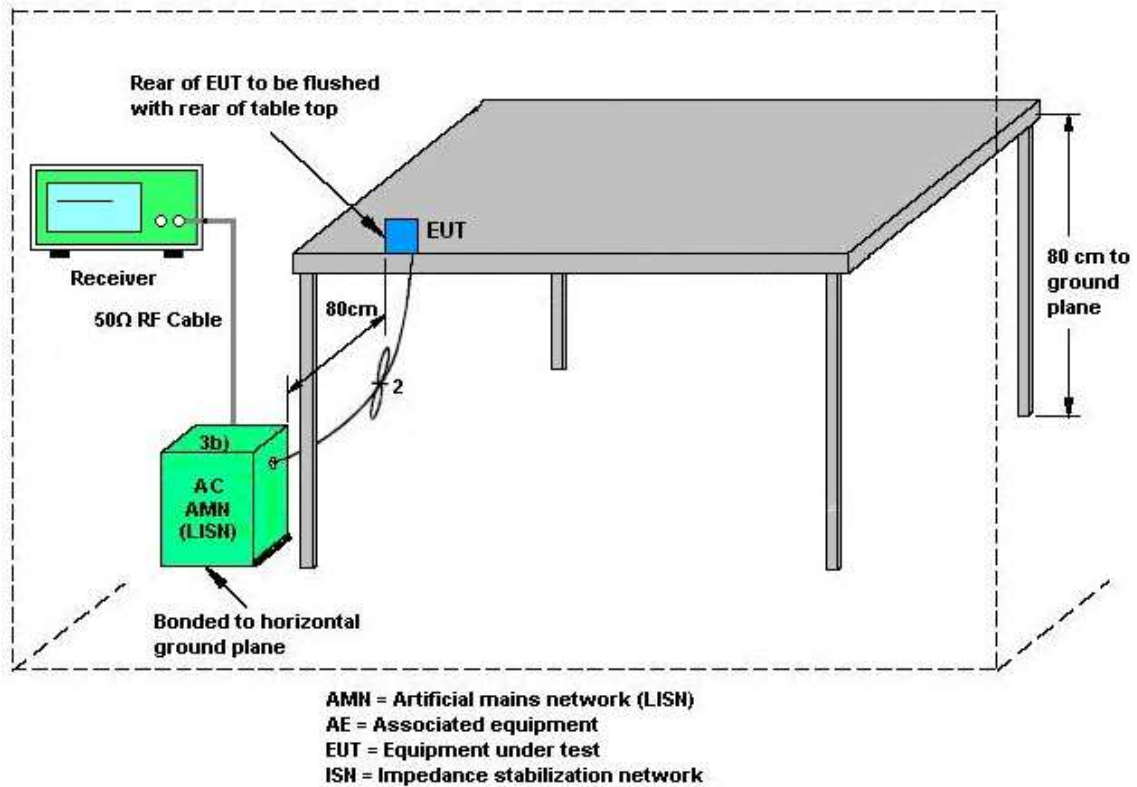
3.5.2 Measuring Instruments

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

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 rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 16, 2021	Sep. 01, 2022~ Oct. 03, 2022	Nov. 15, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	15I00041SNO 10 (NO:248)	10MHz~6GHz	Dec. 29, 2021	Sep. 01, 2022~ Oct. 03, 2022	Dec. 28, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101905	10Hz - 40GHz	Aug. 03, 2022	Sep. 01, 2022~ Oct. 03, 2022	Aug. 02, 2023	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Sep. 07, 2022	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2021	Sep. 07, 2022	Nov. 30, 2022	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2021	Sep. 07, 2022	Nov. 16, 2022	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2021	Sep. 07, 2022	Nov. 15, 2022	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Sep. 07, 2022	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Aug. 01, 2022	Sep. 07, 2022	Jul. 31, 2023	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 30, 2021	Sep. 07, 2022	Dec. 29, 2022	Conduction (CO05-HY)
EMI Test Receiver	Keysight	N9010B	MY60240520	10Hz~44GHz	Dec. 23, 2021	Sep. 23, 2022~ Sep. 30, 2022	Dec. 22, 2022	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Jan. 03, 2022	Sep. 23, 2022~ Sep. 30, 2022	Jan. 02, 2023	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45S E	980792	N/A	Nov. 15, 2021	Sep. 23, 2022~ Sep. 30, 2022	Nov. 14, 2022	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 28, 2022	Sep. 23, 2022~ Sep. 30, 2022	Jun. 27, 2023	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 07, 2022	Sep. 23, 2022~ Sep. 30, 2022	Jan. 06, 2023	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802 N1D01N-06	55606 & 08	30MHz~1GHz	Oct. 17, 2021	Sep. 23, 2022~ Sep. 30, 2022	Oct. 16, 2022	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	02360	1GHz~18GHz	Nov. 02, 2021	Sep. 23, 2022~ Sep. 30, 2022	Nov. 01, 2022	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00994	18GHz-40GHz	Nov. 04, 2021	Sep. 23, 2022~ Sep. 30, 2022	Nov. 03, 2022	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Aug. 15, 2022	Sep. 23, 2022~ Sep. 30, 2022	Aug. 14, 2023	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,804 015/2,804027 /2	N/A	Jan. 19, 2022	Sep. 23, 2022~ Sep. 30, 2022	Jan. 18, 2023	Radiation (03CH20-HY)
Software	Audix	E3 6.2009-8-24	RK-002156	N/A	N/A	Sep. 23, 2022~ Sep. 30, 2022	N/A	Radiation (03CH20-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Sep. 23, 2022~ Sep. 30, 2022	N/A	Radiation (03CH20-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Sep. 23, 2022~ Sep. 30, 2022	N/A	Radiation (03CH20-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Sep. 23, 2022~ Sep. 30, 2022	N/A	Radiation (03CH20-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.1 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.9 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.2 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.7 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	ERIC WU	Temperature:	21~25	°C
Test Date:	2022/09/01~2022/10/03	Relative Humidity:	51~54	%

Remark: For Conducted Test Items, Ant. 1 means Aux. Antenna and Ant. 2 means Main Antenna.

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	36	5180	16.38	16.38	19.10	19.00	23.14		22.14	22.14	
11a	6Mbps	1	44	5220	16.38	16.38	18.90	18.90	23.14		22.14	22.14	
11a	6Mbps	1	48	5240	16.33	16.38	19.10	19.05	23.13		22.13	22.14	

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 single antenna												
Mod.	Data Rate	NTX	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	1	36	5180	16.40	16.50		24.00	24.00	2.86	2.63	Pass
11a	6Mbps	1	44	5220	16.40	16.50		24.00	24.00	2.86	2.63	Pass
11a	6Mbps	1	48	5240	16.30	16.50		24.00	24.00	2.86	2.63	Pass
HT20	MCS0	1	36	5180	13.20	13.00		24.00	24.00	2.86	2.63	Pass
HT20	MCS0	1	44	5220	13.20	12.80		24.00	24.00	2.86	2.63	Pass
HT20	MCS0	1	48	5240	13.10	12.60		24.00	24.00	2.86	2.63	Pass
HT40	MCS0	1	38	5190	13.30	12.80		24.00	24.00	2.86	2.63	Pass
HT40	MCS0	1	46	5230	13.30	12.60		24.00	24.00	2.86	2.63	Pass
VHT20	MCS0	1	36	5180	13.20	13.00		24.00	24.00	2.86	2.63	Pass
VHT20	MCS0	1	44	5220	13.20	12.80		24.00	24.00	2.86	2.63	Pass
VHT20	MCS0	1	48	5240	13.10	12.60		24.00	24.00	2.86	2.63	Pass
VHT40	MCS0	1	38	5190	13.30	12.80		24.00	24.00	2.86	2.63	Pass
VHT40	MCS0	1	46	5230	13.30	12.60		24.00	24.00	2.86	2.63	Pass
VHT80	MCS0	1	42	5210	13.10	12.70		24.00	24.00	2.86	2.63	Pass

FCC U-NII-1 MIMO												
Mod.	Data Rate	NTX	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	13.40	13.10	16.26	24.00		2.86		Pass
HT20	MCS0	2	44	5220	13.40	13.00	16.21	24.00		2.86		Pass
HT20	MCS0	2	48	5240	13.40	12.70	16.07	24.00		2.86		Pass
HT40	MCS0	2	38	5190	13.40	13.00	16.21	24.00		2.86		Pass
HT40	MCS0	2	46	5230	13.40	12.70	16.07	24.00		2.86		Pass
VHT20	MCS0	2	36	5180	13.40	13.10	16.26	24.00		2.86		Pass
VHT20	MCS0	2	44	5220	13.40	13.00	16.21	24.00		2.86		Pass
VHT20	MCS0	2	48	5240	13.40	12.70	16.07	24.00		2.86		Pass
VHT40	MCS0	2	38	5190	13.40	13.00	16.21	24.00		2.86		Pass
VHT40	MCS0	2	46	5230	13.40	12.70	16.07	24.00		2.86		Pass
VHT80	MCS0	2	42	5210	13.40	12.80	16.12	24.00		2.86		Pass

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	36	5180	5.34	5.58		11.00	11.00	2.86	2.63		Pass
11a	6Mbps	1	44	5220	5.25	5.35		11.00	11.00	2.86	2.63		Pass
11a	6Mbps	1	48	5240	5.22	5.48		11.00	11.00	2.86	2.63		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A single antenna															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	52	5260	16.38	16.33	19.10	18.95	23.14	23.13	29.14	29.13	23.81	23.78	
11a	6Mbps	1	60	5300	16.38	16.38	19.00	19.05	23.14	23.14	29.14	29.14	23.79	23.80	
11a	6Mbps	1	64	5320	16.33	16.38	18.95	18.85	23.13	23.14	29.13	29.14	23.78	23.75	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	16.20	16.50		23.81	23.78	2.74	2.68	26.99	Pass
11a	6Mbps	1	60	5300	16.10	16.40		23.79	23.80	2.74	2.68	26.99	Pass
11a	6Mbps	1	64	5320	16.30	16.40		23.78	23.75	2.74	2.68	26.99	Pass
HT20	MCS0	1	52	5260	13.10	12.60		23.98	23.98	2.74	2.68	26.99	Pass
HT20	MCS0	1	60	5300	13.10	12.40		23.98	23.98	2.74	2.68	26.99	Pass
HT20	MCS0	1	64	5320	13.20	12.40		23.98	23.98	2.74	2.68	26.99	Pass
HT40	MCS0	1	54	5270	13.10	12.40		23.98	23.98	2.74	2.68	26.99	Pass
HT40	MCS0	1	62	5310	13.20	12.30		23.98	23.98	2.74	2.68	26.99	Pass
VHT20	MCS0	1	52	5260	13.10	12.60		23.98	23.98	2.74	2.68	26.99	Pass
VHT20	MCS0	1	60	5300	13.10	12.40		23.98	23.98	2.74	2.68	26.99	Pass
VHT20	MCS0	1	64	5320	13.20	12.40		23.98	23.98	2.74	2.68	26.99	Pass
VHT40	MCS0	1	54	5270	13.10	12.40		23.98	23.98	2.74	2.68	26.99	Pass
VHT40	MCS0	1	62	5310	13.20	12.30		23.98	23.98	2.74	2.68	26.99	Pass
VHT80	MCS0	1	58	5290	11.90	11.20		23.98	23.98	2.74	2.68	26.99	Pass

FCC U-NII-2A MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HT20	MCS0	2	52	5260	13.40	12.70	16.07	23.98		2.74		26.99	Pass
HT20	MCS0	2	60	5300	13.30	12.60	15.97	23.98		2.74		26.99	Pass
HT20	MCS0	2	64	5320	13.40	12.60	16.03	23.98		2.74		26.99	Pass
HT40	MCS0	2	54	5270	13.20	12.50	15.87	23.98		2.74		26.99	Pass
HT40	MCS0	2	62	5310	13.40	12.50	15.98	23.98		2.74		26.99	Pass
VHT20	MCS0	2	52	5260	13.40	12.70	16.07	23.98		2.74		26.99	Pass
VHT20	MCS0	2	60	5300	13.30	12.60	15.97	23.98		2.74		26.99	Pass
VHT20	MCS0	2	64	5320	13.40	12.60	16.03	23.98		2.74		26.99	Pass
VHT40	MCS0	2	54	5270	13.20	12.50	15.87	23.98		2.74		26.99	Pass
VHT40	MCS0	2	62	5310	13.40	12.50	15.98	23.98		2.74		26.99	Pass
VHT80	MCS0	2	58	5290	12.50	11.50	15.04	23.98		2.74		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	52	5260	5.14	5.41		11.00	11.00	2.74	2.68		Pass
11a	6Mbps	1	60	5300	5.04	5.00		11.00	11.00	2.74	2.68		Pass
11a	6Mbps	1	64	5320	5.20	5.16		11.00	11.00	2.74	2.68		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C single antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	100	5500	16.33	16.33	18.95	18.90	23.13	23.13	29.13	29.13	23.78	23.76	----	----
11a	6Mbps	1	116	5580	16.33	16.33	19.10	19.05	23.13	23.13	29.13	29.13	23.81	23.80	----	----
11a	6Mbps	1	140	5700	16.38	16.38	19.00	18.95	23.14	23.14	29.14	29.14	23.79	23.78	----	----

U-NII-2C straddle channel single antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11a	6Mbps	1	144	5720	13.19	13.19	14.55	14.50	22.20	22.20	28.20	28.20	22.63	22.61	3.2	3.2

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	16.50	16.40		23.78	23.76	2.74	2.91	26.99	Pass
11a	6Mbps	1	116	5580	16.50	16.40		23.81	23.80	2.74	2.91	26.99	Pass
11a	6Mbps	1	140	5700	16.40	16.10		23.79	23.78	2.74	2.91	26.99	Pass
HT20	MCS0	1	100	5500	13.20	13.10		23.98	23.98	2.74	2.91	26.99	Pass
HT20	MCS0	1	116	5580	13.20	13.20		23.98	23.98	2.74	2.91	26.99	Pass
HT20	MCS0	1	140	5700	13.00	12.40		23.98	23.98	2.74	2.91	26.99	Pass
HT40	MCS0	1	102	5510	13.30	12.90		23.98	23.98	2.74	2.91	26.99	Pass
HT40	MCS0	1	110	5550	13.00	12.90		23.98	23.98	2.74	2.91	26.99	Pass
HT40	MCS0	1	134	5670	13.10	12.60		23.98	23.98	2.74	2.91	26.99	Pass
VHT20	MCS0	1	100	5500	13.20	13.10		23.98	23.98	2.74	2.91	26.99	Pass
VHT20	MCS0	1	116	5580	13.20	13.20		23.98	23.98	2.74	2.91	26.99	Pass
VHT20	MCS0	1	140	5700	13.00	12.40		23.98	23.98	2.74	2.91	26.99	Pass
VHT40	MCS0	1	102	5510	13.30	12.90		23.98	23.98	2.74	2.91	26.99	Pass
VHT40	MCS0	1	110	5550	13.00	12.90		23.98	23.98	2.74	2.91	26.99	Pass
VHT40	MCS0	1	134	5670	13.10	12.60		23.98	23.98	2.74	2.91	26.99	Pass
VHT80	MCS0	1	106	5530	13.10	12.90		23.98	23.98	2.74	2.91	26.99	Pass
VHT80	MCS0	1	122	5610	13.20	12.80		23.98	23.98	2.74	2.91	26.99	Pass

FCC U-NII-2C MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HT20	MCS0	2	100	5500	13.40	13.30	16.36	23.98		2.91		26.99	Pass
HT20	MCS0	2	116	5580	13.30	13.40	16.36	23.98		2.91		26.99	Pass
HT20	MCS0	2	140	5700	13.10	12.50	15.82	23.98		2.91		26.99	Pass
HT40	MCS0	2	102	5510	13.40	13.10	16.26	23.98		2.91		26.99	Pass
HT40	MCS0	2	110	5550	13.20	13.10	16.16	23.98		2.91		26.99	Pass
HT40	MCS0	2	134	5670	13.30	12.70	16.02	23.98		2.91		26.99	Pass
VHT20	MCS0	2	100	5500	13.40	13.30	16.36	23.98		2.91		26.99	Pass
VHT20	MCS0	2	116	5580	13.30	13.40	16.36	23.98		2.91		26.99	Pass
VHT20	MCS0	2	140	5700	13.10	12.50	15.82	23.98		2.91		26.99	Pass
VHT40	MCS0	2	102	5510	13.40	13.10	16.26	23.98		2.91		26.99	Pass
VHT40	MCS0	2	110	5550	13.20	13.10	16.16	23.98		2.91		26.99	Pass
VHT40	MCS0	2	134	5670	13.30	12.70	16.02	23.98		2.91		26.99	Pass
VHT80	MCS0	2	106	5530	13.30	13.10	16.21	23.98		2.91		26.99	Pass
VHT80	MCS0	2	122	5610	13.40	13.00	16.21	23.98		2.91		26.99	Pass

FCC U-NII-2C straddle channel single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	144	5720	16.20	16.10		22.63	22.61	2.74	2.91	26.99	Pass
HT20	MCS0	1	144	5720	13.10	12.80		23.98	23.98	2.74	2.91	26.99	Pass
HT40	MCS0	1	142	5710	13.20	12.70		23.98	23.98	2.74	2.91	26.99	Pass
VHT20	MCS0	1	144	5720	13.10	12.80		23.98	23.98	2.74	2.91	26.99	Pass
VHT40	MCS0	1	142	5710	13.20	12.70		23.98	23.98	2.74	2.91	26.99	Pass
VHT80	MCS0	1	138	5690	13.20	13.00		23.98	23.98	2.74	2.91	26.99	Pass

FCC U-NII-2C straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HT20	MCS0	2	144	5720	13.40	13.00	16.21	23.98		2.91		26.99	Pass
HT40	MCS0	2	142	5710	13.40	12.90	16.17	23.98		2.91		26.99	Pass
VHT20	MCS0	2	144	5720	13.40	13.00	16.21	23.98		2.91		26.99	Pass
VHT40	MCS0	2	142	5710	13.40	12.90	16.17	23.98		2.91		26.99	Pass
VHT80	MCS0	2	138	5690	13.40	13.20	16.31	23.98		2.91		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2C single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	100	5500	5.29	4.98		11.00	11.00	2.74	2.91		Pass
11a	6Mbps	1	116	5580	5.25	4.84		11.00	11.00	2.74	2.91		Pass
11a	6Mbps	1	140	5700	5.26	5.49		11.00	11.00	2.74	2.91		Pass

U-NII-2C straddle channel single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	144	5720	5.49	5.44		11.00	11.00	2.74	2.91		Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 MIMO														
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		Note
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	36	5180	Full	18.88	18.83	20.80	21.00	-	-	22.75	-	
HE20	MCS0	2	44	5220	Full	18.83	18.83	21.00	20.70	-	-	22.75	-	
HE20	MCS0	2	48	5240	Full	18.83	18.83	20.85	20.95	-	-	22.75	-	
HE40	MCS0	2	38	5190	Full	37.86	37.86	39.96	40.05	-	-	23.01	-	
HE40	MCS0	2	46	5230	Full	37.86	37.76	39.87	40.23	-	-	23.01	-	
HE80	MCS0	2	42	5210	Full	77.20	77.20	82.88	82.72	-	-	23.01	-	

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 single antenna													
Mod.	Data Rate	NTX	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	1	36	5180	Full	13.30	13.10		24.00	24.00	2.86	2.63	Pass
HE20	MCS0	1	36	5180	26/0	4.90	4.70		24.00	24.00	2.86	2.63	Pass
HE20	MCS0	1	36	5180	52/37	4.70	4.70		24.00	24.00	2.86	2.63	Pass
HE20	MCS0	1	36	5180	106/53	5.00	4.90		24.00	24.00	2.86	2.63	Pass
HE20	MCS0	1	44	5220	Full	13.30	12.90		24.00	24.00	2.86	2.63	Pass
HE20	MCS0	1	44	5220	26/4	5.50	4.90		24.00	24.00	2.86	2.63	Pass
HE20	MCS0	1	44	5220	52/38	5.50	5.10		24.00	24.00	2.86	2.63	Pass
HE20	MCS0	1	44	5220	106/53	5.80	5.20		24.00	24.00	2.86	2.63	Pass
HE20	MCS0	1	48	5240	Full	13.20	12.70		24.00	24.00	2.86	2.63	Pass
HE20	MCS0	1	48	5240	26/8	4.90	4.70		24.00	24.00	2.86	2.63	Pass
HE20	MCS0	1	48	5240	52/40	4.80	4.80		24.00	24.00	2.86	2.63	Pass
HE20	MCS0	1	48	5240	106/54	5.00	5.00		24.00	24.00	2.86	2.63	Pass
HE40	MCS0	1	38	5190	Full	13.40	12.90		24.00	24.00	2.86	2.63	Pass
HE40	MCS0	1	38	5190	242/61	11.60	11.00		24.00	24.00	2.86	2.63	Pass
HE40	MCS0	1	46	5230	Full	13.40	12.70		24.00	24.00	2.86	2.63	Pass
HE40	MCS0	1	46	5230	242/62	11.40	10.60		24.00	24.00	2.86	2.63	Pass
HE80	MCS0	1	42	5210	Full	13.20	12.80		24.00	24.00	2.86	2.63	Pass
HE80	MCS0	1	42	5210	484/65	7.90	8.40		24.00	24.00	2.86	2.63	Pass

FCC U-NII-1 MIMO													
Mod.	Data Rate	NTX	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	13.50	13.20	16.36	24.00		2.86		Pass
HE20	MCS0	2	36	5180	26/0	5.10	4.80	7.96	24.00		2.86		Pass
HE20	MCS0	2	36	5180	52/37	5.10	4.90	8.01	24.00		2.86		Pass
HE20	MCS0	2	36	5180	106/53	5.20	5.00	8.11	24.00		2.86		Pass
HE20	MCS0	2	44	5220	Full	13.50	13.10	16.31	24.00		2.86		Pass
HE20	MCS0	2	44	5220	26/4	5.60	5.00	8.32	24.00		2.86		Pass
HE20	MCS0	2	44	5220	52/38	5.80	5.20	8.52	24.00		2.86		Pass
HE20	MCS0	2	44	5220	106/53	5.90	5.30	8.62	24.00		2.86		Pass
HE20	MCS0	2	48	5240	Full	13.50	12.80	16.17	24.00		2.86		Pass
HE20	MCS0	2	48	5240	26/8	5.00	4.80	7.91	24.00		2.86		Pass
HE20	MCS0	2	48	5240	52/40	5.10	5.00	8.06	24.00		2.86		Pass
HE20	MCS0	2	48	5240	106/54	5.20	5.10	8.16	24.00		2.86		Pass
HE40	MCS0	2	38	5190	Full	13.50	13.10	16.31	24.00		2.86		Pass
HE40	MCS0	2	38	5190	242/61	11.80	11.10	14.47	24.00		2.86		Pass
HE40	MCS0	2	46	5230	Full	13.50	12.80	16.17	24.00		2.86		Pass
HE40	MCS0	2	46	5230	242/62	11.50	10.70	14.13	24.00		2.86		Pass
HE80	MCS0	2	42	5210	Full	13.50	12.90	16.22	24.00		2.86		Pass
HE80	MCS0	2	42	5210	484/65	8.00	8.60	11.32	24.00		2.86		Pass

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 MIMO														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	36	5180	Full			6.38	11.00		5.76		Pass	
HE20	MCS0	2	36	5180	26/0			5.96	11.00		5.76		Pass	
HE20	MCS0	2	44	5220	Full			6.01	11.00		5.76		Pass	
HE20	MCS0	2	44	5220	26/4			5.45	11.00		5.76		Pass	
HE20	MCS0	2	48	5240	Full			5.98	11.00		5.76		Pass	
HE20	MCS0	2	48	5240	26/8			5.91	11.00		5.76		Pass	
HE40	MCS0	2	38	5190	Full			3.03	11.00		5.76		Pass	
HE40	MCS0	2	38	5190	242/61			2.71	11.00		5.76		Pass	
HE40	MCS0	2	46	5230	Full			2.86	11.00		5.76		Pass	
HE40	MCS0	2	46	5230	242/62			2.52	11.00		5.76		Pass	
HE80	MCS0	2	42	5210	Full			0.12	11.00		5.76		Pass	
HE80	MCS0	2	42	5210	484/65			-3.44	11.00		5.76		Pass	

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A MIMO																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	52	5260	Full	18.88	18.83	20.90	20.75	23.75		29.75		23.98		
HE20	MCS0	2	60	5300	Full	18.83	18.83	20.90	20.75	23.75		29.75		23.98		
HE20	MCS0	2	64	5320	Full	18.88	18.83	21.00	20.90	23.75		29.75		23.98		
HE40	MCS0	2	54	5270	Full	37.86	37.86	40.05	40.05	23.98		30.00		23.98		
HE40	MCS0	2	62	5310	Full	37.76	37.76	40.41	40.14	23.98		30.00		23.98		
HE80	MCS0	2	58	5290	Full	77.08	77.20	83.04	82.88	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	1	52	5260	Full	13.20	12.70		23.98	23.98	2.74	2.68	26.99	Pass
HE20	MCS0	1	52	5260	26/0	5.00	4.90		23.98	23.98	2.74	2.68	26.99	Pass
HE20	MCS0	1	52	5260	52/37	4.90	5.00		23.98	23.98	2.74	2.68	26.99	Pass
HE20	MCS0	1	52	5260	106/53	5.00	5.10		23.98	23.98	2.74	2.68	26.99	Pass
HE20	MCS0	1	60	5300	Full	13.20	12.50		23.98	23.98	2.74	2.68	26.99	Pass
HE20	MCS0	1	60	5300	26/4	6.70	5.90		23.98	23.98	2.74	2.68	26.99	Pass
HE20	MCS0	1	60	5300	52/38	6.80	6.10		23.98	23.98	2.74	2.68	26.99	Pass
HE20	MCS0	1	60	5300	106/53	7.00	5.20		23.98	23.98	2.74	2.68	26.99	Pass
HE20	MCS0	1	64	5320	Full	13.30	12.50		23.98	23.98	2.74	2.68	26.99	Pass
HE20	MCS0	1	64	5320	26/8	5.70	4.70		23.98	23.98	2.74	2.68	26.99	Pass
HE20	MCS0	1	64	5320	52/40	5.80	4.80		23.98	23.98	2.74	2.68	26.99	Pass
HE20	MCS0	1	64	5320	106/54	5.80	4.90		23.98	23.98	2.74	2.68	26.99	Pass
HE40	MCS0	1	54	5270	Full	13.20	12.50		23.98	23.98	2.74	2.68	26.99	Pass
HE40	MCS0	1	54	5270	242/61	11.70	10.80		23.98	23.98	2.74	2.68	26.99	Pass
HE40	MCS0	1	62	5310	Full	13.30	12.40		23.98	23.98	2.74	2.68	26.99	Pass
HE40	MCS0	1	62	5310	242/62	11.60	10.60		23.98	23.98	2.74	2.68	26.99	Pass
HE80	MCS0	1	58	5290	Full	12.00	11.30		23.98	23.98	2.74	2.68	26.99	Pass
HE80	MCS0	1	58	5290	484/66	6.70	5.90		23.98	23.98	2.74	2.68	26.99	Pass

FCC U-NII-2A MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	52	5260	Full	13.50	12.80	16.17	23.98		2.74		26.99	Pass
HE20	MCS0	2	52	5260	26/0	5.10	5.10	8.11	23.98		2.74		26.99	Pass
HE20	MCS0	2	52	5260	52/37	5.20	5.20	8.21	23.98		2.74		26.99	Pass
HE20	MCS0	2	52	5260	106/53	5.30	5.30	8.31	23.98		2.74		26.99	Pass
HE20	MCS0	2	60	5300	Full	13.40	12.70	16.07	23.98		2.74		26.99	Pass
HE20	MCS0	2	60	5300	26/4	6.80	6.20	9.52	23.98		2.74		26.99	Pass
HE20	MCS0	2	60	5300	52/38	7.00	6.40	9.72	23.98		2.74		26.99	Pass
HE20	MCS0	2	60	5300	106/53	7.10	6.50	9.82	23.98		2.74		26.99	Pass
HE20	MCS0	2	64	5320	Full	13.50	12.70	16.13	23.98		2.74		26.99	Pass
HE20	MCS0	2	64	5320	26/8	5.80	4.80	8.34	23.98		2.74		26.99	Pass
HE20	MCS0	2	64	5320	52/40	5.90	4.90	8.44	23.98		2.74		26.99	Pass
HE20	MCS0	2	64	5320	106/54	6.00	5.10	8.58	23.98		2.74		26.99	Pass
HE40	MCS0	2	54	5270	Full	13.30	12.60	15.97	23.98		2.74		26.99	Pass
HE40	MCS0	2	54	5270	242/61	11.90	11.00	14.48	23.98		2.74		26.99	Pass
HE40	MCS0	2	62	5310	Full	13.50	12.60	16.08	23.98		2.74		26.99	Pass
HE40	MCS0	2	62	5310	242/62	11.80	10.70	14.30	23.98		2.74		26.99	Pass
HE80	MCS0	2	58	5290	Full	12.60	11.60	15.14	23.98		2.74		26.99	Pass
HE80	MCS0	2	58	5290	484/66	6.80	6.00	9.43	23.98		2.74		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A MIMO														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	52	5260	Full			5.93	11.00	5.72			Pass	
HE20	MCS0	2	52	5260	26/0			5.49	11.00	5.72			Pass	
HE20	MCS0	2	60	5300	Full			5.99	11.00	5.72			Pass	
HE20	MCS0	2	60	5300	26/4			5.98	11.00	5.72			Pass	
HE20	MCS0	2	64	5320	Full			5.96	11.00	5.72			Pass	
HE20	MCS0	2	64	5320	26/8			5.73	11.00	5.72			Pass	
HE40	MCS0	2	54	5270	Full			2.94	11.00	5.72			Pass	
HE40	MCS0	2	54	5270	242/61			2.85	11.00	5.72			Pass	
HE40	MCS0	2	62	5310	Full			2.72	11.00	5.72			Pass	
HE40	MCS0	2	62	5310	242/62			2.55	11.00	5.72			Pass	
HE80	MCS0	2	58	5290	Full			-1.49	11.00	5.72			Pass	
HE80	MCS0	2	58	5290	484/66			-3.96	11.00	5.72			Pass	

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C MIMO																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
HE20	MCS0	2	100	5500	Full	18.88	18.83	20.80	20.90	23.75		29.75		23.98		----	----
HE20	MCS0	2	116	5580	Full	18.88	18.83	20.80	20.85	23.75		29.75		23.98		----	----
HE20	MCS0	2	140	5700	Full	18.83	18.83	20.80	20.70	23.75		29.75		23.98		----	----
HE40	MCS0	2	102	5510	Full	37.86	37.76	39.87	40.14	23.98		30.00		23.98		----	----
HE40	MCS0	2	110	5550	Full	37.96	37.86	37.87	40.41	23.98		30.00		23.98		----	----
HE40	MCS0	2	134	5670	Full	37.86	37.76	40.05	39.96	23.98		30.00		23.98		----	----
HE80	MCS0	2	106	5530	Full	77.20	77.08	82.24	82.56	23.98		30.00		23.98		----	----
HE80	MCS0	2	122	5610	Full	77.20	77.08	83.20	82.24	23.98		30.00		23.98		----	----

U-NII-2C straddle channel MIMO																	
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		6 dB Bandwidth for Straddle Channel (MHz)	
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
HE20	MCS0	2	144	5720	Full	14.44	14.44	15.35	15.35	22.60		28.60		22.86		4.2	4.1
HE40	MCS0	2	142	5710	Full	33.88	33.88	35.07	35.07	23.98		30.00		23.98		3.81	3.18
HE80	MCS0	2	138	5690	Full	73.60	73.60	76.28	76.44	23.98		30.00		23.98		3.88	3.72

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	1	100	5500	Full	13.30	13.20		23.98	23.98	2.74	2.91	26.99	Pass
HE20	MCS0	1	100	5500	26/0	5.20	5.10		23.98	23.98	2.74	2.91	26.99	Pass
HE20	MCS0	1	100	5500	52/37	5.10	5.20		23.98	23.98	2.74	2.91	26.99	Pass
HE20	MCS0	1	100	5500	106/53	5.20	5.20		23.98	23.98	2.74	2.91	26.99	Pass
HE20	MCS0	1	116	5580	Full	13.30	13.30		23.98	23.98	2.74	2.91	26.99	Pass
HE20	MCS0	1	116	5580	26/4	6.10	5.90		23.98	23.98	2.74	2.91	26.99	Pass
HE20	MCS0	1	116	5580	52/38	6.30	5.90		23.98	23.98	2.74	2.91	26.99	Pass
HE20	MCS0	1	116	5580	106/53	6.30	6.00		23.98	23.98	2.74	2.91	26.99	Pass
HE20	MCS0	1	140	5700	Full	13.10	12.50		23.98	23.98	2.74	2.91	26.99	Pass
HE20	MCS0	1	140	5700	26/8	5.40	4.90		23.98	23.98	2.74	2.91	26.99	Pass
HE20	MCS0	1	140	5700	52/40	5.40	5.00		23.98	23.98	2.74	2.91	26.99	Pass
HE20	MCS0	1	140	5700	106/54	5.50	5.00		23.98	23.98	2.74	2.91	26.99	Pass
HE40	MCS0	1	102	5510	Full	13.40	13.00		23.98	23.98	2.74	2.91	26.99	Pass
HE40	MCS0	1	102	5510	242/61	11.30	11.20		23.98	23.98	2.74	2.91	26.99	Pass
HE40	MCS0	1	110	5550	Full	13.10	13.00		23.98	23.98	2.74	2.91	26.99	Pass
HE40	MCS0	1	110	5550	242/61	11.60	11.60		23.98	23.98	2.74	2.91	26.99	Pass
HE40	MCS0	1	134	5670	Full	13.20	12.70		23.98	23.98	2.74	2.91	26.99	Pass
HE40	MCS0	1	134	5670	242/62	11.60	11.00		23.98	23.98	2.74	2.91	26.99	Pass
HE80	MCS0	1	106	5530	Full	13.20	13.00		23.98	23.98	2.74	2.91	26.99	Pass
HE80	MCS0	1	106	5530	484/65	8.50	8.30		23.98	23.98	2.74	2.91	26.99	Pass
HE80	MCS0	1	122	5610	Full	13.30	12.90		23.98	23.98	2.74	2.91	26.99	Pass
HE80	MCS0	1	122	5610	484/66	8.20	8.10		23.98	23.98	2.74	2.91	26.99	Pass

FCC U-NII-2C MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	100	5500	Full	13.50	13.40	16.46	23.98		2.91		26.99	Pass
HE20	MCS0	2	100	5500	26/0	5.30	5.20	8.26	23.98		2.91		26.99	Pass
HE20	MCS0	2	100	5500	52/37	5.40	5.30	8.36	23.98		2.91		26.99	Pass
HE20	MCS0	2	100	5500	106/53	5.50	5.40	8.46	23.98		2.91		26.99	Pass
HE20	MCS0	2	116	5580	Full	13.40	13.50	16.46	23.98		2.91		26.99	Pass
HE20	MCS0	2	116	5580	26/4	6.20	6.00	9.11	23.98		2.91		26.99	Pass
HE20	MCS0	2	116	5580	52/38	6.40	6.10	9.26	23.98		2.91		26.99	Pass
HE20	MCS0	2	116	5580	106/53	6.50	6.20	9.36	23.98		2.91		26.99	Pass
HE20	MCS0	2	140	5700	Full	13.20	12.60	15.92	23.98		2.91		26.99	Pass
HE20	MCS0	2	140	5700	26/8	5.50	5.00	8.27	23.98		2.91		26.99	Pass
HE20	MCS0	2	140	5700	52/40	5.60	5.10	8.37	23.98		2.91		26.99	Pass
HE20	MCS0	2	140	5700	106/54	5.70	5.20	8.47	23.98		2.91		26.99	Pass
HE40	MCS0	2	102	5510	Full	13.50	13.20	16.36	23.98		2.91		26.99	Pass
HE40	MCS0	2	102	5510	242/61	11.40	11.30	14.36	23.98		2.91		26.99	Pass
HE40	MCS0	2	110	5550	Full	13.30	13.20	16.26	23.98		2.91		26.99	Pass
HE40	MCS0	2	110	5550	242/61	11.80	11.80	14.81	23.98		2.91		26.99	Pass
HE40	MCS0	2	134	5670	Full	13.40	12.80	16.12	23.98		2.91		26.99	Pass
HE40	MCS0	2	134	5670	242/62	11.70	11.10	14.42	23.98		2.91		26.99	Pass
HE80	MCS0	2	106	5530	Full	12.20	13.20	15.74	23.98		2.91		26.99	Pass
HE80	MCS0	2	106	5530	484/65	8.80	8.50	11.66	23.98		2.91		26.99	Pass
HE80	MCS0	2	122	5610	Full	13.50	13.10	16.31	23.98		2.91		26.99	Pass
HE80	MCS0	2	122	5610	484/66	8.30	8.20	11.26	23.98		2.91		26.99	Pass

FCC U-NII-2C straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	144	5720	Full	13.50	13.10	16.31	22.86		2.91		26.99	Pass
HE20	MCS0	2	144	5720	26/8	5.60	4.90	8.27	22.86		2.91		26.99	Pass
HE20	MCS0	2	144	5720	52/40	5.70	5.00	8.37	22.86		2.91		26.99	Pass
HE20	MCS0	2	144	5720	106/54	5.80	5.10	8.47	22.86		2.91		26.99	Pass
HE40	MCS0	2	142	5710	Full	13.50	13.00	16.27	23.98		2.91		26.99	Pass
HE40	MCS0	2	142	5710	242/62	11.70	11.00	14.37	23.98		2.91		26.99	Pass
HE80	MCS0	2	138	5690	Full	13.50	13.30	16.41	23.98		2.91		26.99	Pass
HE80	MCS0	2	138	5690	484/66	8.70	8.40	11.56	23.98		2.91		26.99	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2C MIMO														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	100	5500	Full			6.28	11.00	5.84			Pass	
HE20	MCS0	2	100	5500	26/0			5.83	11.00	5.84			Pass	
HE20	MCS0	2	116	5580	Full			6.10	11.00	5.84			Pass	
HE20	MCS0	2	116	5580	26/4			5.62	11.00	5.84			Pass	
HE20	MCS0	2	140	5700	Full			5.81	11.00	5.84			Pass	
HE20	MCS0	2	140	5700	26/8			5.77	11.00	5.84			Pass	
HE40	MCS0	2	102	5510	Full			3.10	11.00	5.84			Pass	
HE40	MCS0	2	102	5510	242/61			2.64	11.00	5.84			Pass	
HE40	MCS0	2	110	5550	Full			3.16	11.00	5.84			Pass	
HE40	MCS0	2	110	5550	242/61			3.05	11.00	5.84			Pass	
HE40	MCS0	2	134	5670	Full			2.71	11.00	5.84			Pass	
HE40	MCS0	2	134	5670	242/62			2.64	11.00	5.84			Pass	
HE80	MCS0	2	106	5530	Full			0.02	11.00	5.84			Pass	
HE80	MCS0	2	106	5530	484/65			-2.91	11.00	5.84			Pass	
HE80	MCS0	2	122	5610	Full			0.14	11.00	5.84			Pass	
HE80	MCS0	2	122	5610	484/66			-3.16	11.00	5.84			Pass	

U-NII-2C straddle channel MIMO														
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	RU Config	Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	144	5720	Full			6.30	11.00		5.84		Pass	
HE40	MCS0	2	144	5720	26/8			5.80	11.00		5.84		Pass	
HE40	MCS0	2	142	5710	Full			2.95	11.00		5.84		Pass	
HE40	MCS0	2	142	5710	242/62			2.71	11.00		5.84		Pass	
HE80	MCS0	2	138	5690	Full			0.20	11.00		5.84		Pass	
HE80	MCS0	2	138	5690	484/66			-2.69	11.00		5.84		Pass	



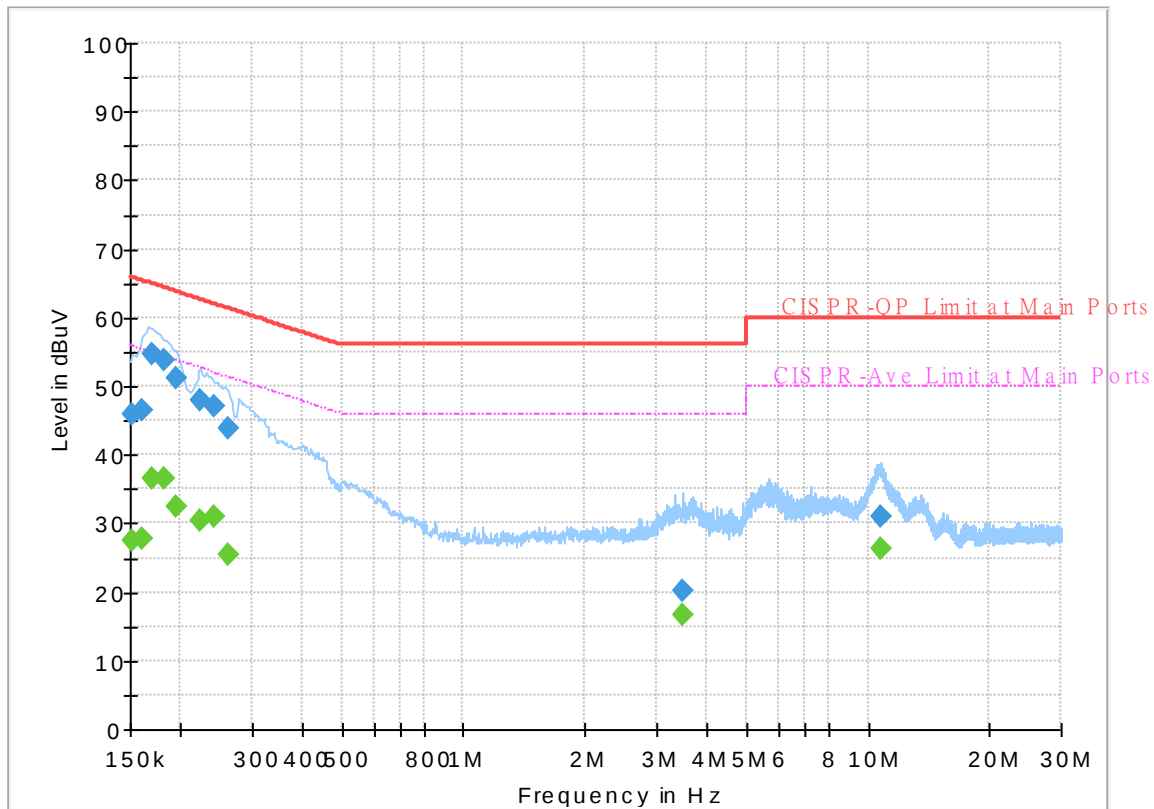
Appendix B. AC Conducted Emission Test Results

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

EUT Information

Report NO : 270404
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



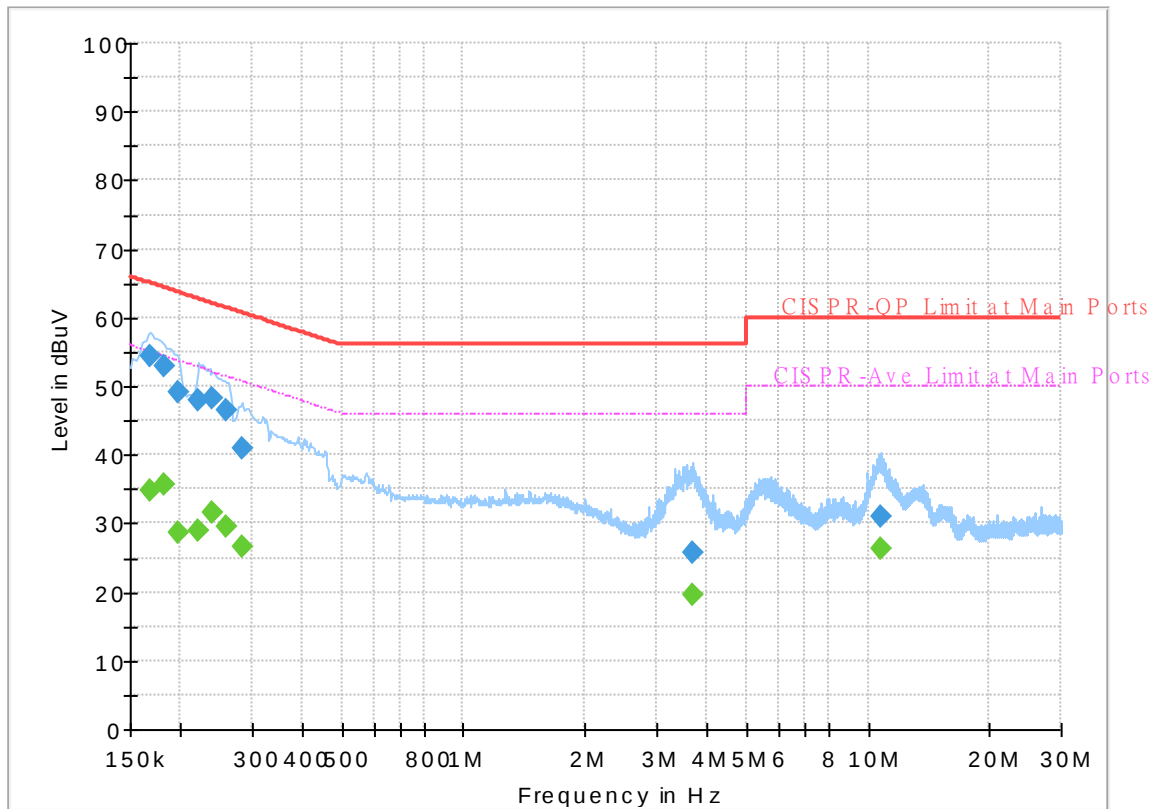
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	27.35	55.88	28.53	L1	OFF	19.8
0.152250	45.85	---	65.88	20.03	L1	OFF	19.8
0.161250	---	27.88	55.40	27.52	L1	OFF	19.8
0.161250	46.38	---	65.40	19.02	L1	OFF	19.8
0.170250	---	36.69	54.95	18.26	L1	OFF	19.8
0.170250	54.82	---	64.95	10.13	L1	OFF	19.8
0.181500	---	36.45	54.42	17.97	L1	OFF	19.8
0.181500	53.91	---	64.42	10.51	L1	OFF	19.8
0.195000	---	32.33	53.82	21.49	L1	OFF	19.8
0.195000	51.32	---	63.82	12.50	L1	OFF	19.8
0.224250	---	30.45	52.66	22.21	L1	OFF	19.8
0.224250	47.91	---	62.66	14.75	L1	OFF	19.8
0.242250	---	30.87	52.02	21.15	L1	OFF	19.8
0.242250	47.01	---	62.02	15.01	L1	OFF	19.8
0.262500	---	25.38	51.35	25.97	L1	OFF	19.8
0.262500	43.93	---	61.35	17.42	L1	OFF	19.8
3.498000	---	16.66	46.00	29.34	L1	OFF	19.8
3.498000	20.26	---	56.00	35.74	L1	OFF	19.8
10.806000	---	26.21	50.00	23.79	L1	OFF	20.0
10.806000	30.86	---	60.00	29.14	L1	OFF	20.0

EUT Information

Report NO : 270404
 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)
0.168000	---	34.84	55.06	20.22	N	OFF	19.8
0.168000	54.24	---	65.06	10.82	N	OFF	19.8
0.181500	---	35.76	54.42	18.66	N	OFF	19.8
0.181500	53.01	---	64.42	11.41	N	OFF	19.8
0.197250	---	28.68	53.73	25.05	N	OFF	19.8
0.197250	49.11	---	63.73	14.62	N	OFF	19.8
0.222000	---	28.93	52.74	23.81	N	OFF	19.8
0.222000	47.82	---	62.74	14.92	N	OFF	19.8
0.240000	---	31.56	52.10	20.54	N	OFF	19.8
0.240000	48.23	---	62.10	13.87	N	OFF	19.8
0.258000	---	29.42	51.50	22.08	N	OFF	19.8
0.258000	46.37	---	61.50	15.13	N	OFF	19.8
0.282750	---	26.60	50.74	24.14	N	OFF	19.8
0.282750	40.95	---	60.74	19.79	N	OFF	19.8
3.675750	---	19.65	46.00	26.35	N	OFF	19.8
3.675750	25.60	---	56.00	30.40	N	OFF	19.8
10.774500	---	26.30	50.00	23.70	N	OFF	20.0
10.774500	31.13	---	60.00	28.87	N	OFF	20.0



Appendix C. Radiated Spurious Emission

Test Engineer :	JC Liang and Leo Li	Temperature :	18~20°C
		Relative Humidity :	66~70%

Remark: For Radiated Spurious Emission Test Items, Ant. 1 means Aux. Antenna and Ant. 2 means Main Antenna.

<Sample 1>

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		5149.5	53.42	-20.58	74	45.51	32.9	12.75	37.74	100	269	P	H
		5149.76	45.83	-8.17	54	37.92	32.9	12.75	37.74	100	269	A	H
	*	5190	107.11	-	-	99.06	32.98	12.83	37.76	100	269	P	H
	*	5190	99.24	-	-	91.19	32.98	12.83	37.76	100	269	A	H
		5387.2	48.21	-25.79	74	39.96	32.85	13.23	37.83	100	269	P	H
		5374.32	37.18	-16.82	54	28.99	32.8	13.21	37.82	100	269	A	H
		5148.72	52.31	-21.69	74	44.4	32.9	12.75	37.74	400	145	P	V
		5150	42.37	-11.63	54	34.45	32.9	12.76	37.74	400	145	A	V
	*	5190	101.95	-	-	93.9	32.98	12.83	37.76	400	145	P	V
	*	5190	94.64	-	-	86.59	32.98	12.83	37.76	400	145	A	V
		5394.48	47.02	-26.98	74	38.72	32.88	13.25	37.83	400	145	P	V
		5390.56	36.9	-17.1	54	28.63	32.86	13.24	37.83	400	145	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)

[illegible]

**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 62 5310MHz		5078.54	47.03	-26.97	74	39.17	32.96	12.62	37.72	387	208	P	H
		5148.92	37.83	-16.17	54	29.92	32.9	12.75	37.74	387	208	A	H
	*	5320	104.92	-	-	96.81	32.82	13.1	37.81	387	208	P	H
	*	5320	97.91	-	-	89.8	32.82	13.1	37.81	387	208	A	H
		5352	58.42	-15.58	74	50.37	32.71	13.16	37.82	387	208	P	H
		5351.28	47.51	-6.49	54	39.46	32.71	13.16	37.82	387	208	A	H
		5117.64	48.23	-25.77	74	40.31	32.96	12.69	37.73	212	142	P	V
		5105.06	37.78	-16.22	54	29.85	32.99	12.67	37.73	212	142	A	V
	*	5320	104.97	-	-	96.86	32.82	13.1	37.81	212	142	P	V
	*	5320	96.05	-	-	87.94	32.82	13.1	37.81	212	142	A	V
		5351.76	55.04	-18.96	74	46.99	32.71	13.16	37.82	212	142	P	V
		5350.08	48.32	-5.68	54	40.28	32.7	13.16	37.82	212	142	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)

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 62 5310MHz		10620	50.85	-23.15	74	34.3	39.1	19.17	41.72	100	256	P	H
		10620	42.07	-11.93	54	25.52	39.1	19.17	41.72	100	256	A	H
		15930	50.39	-23.61	74	33.53	37.93	23.34	44.41	100	241	P	H
		15930	41.63	-12.37	54	24.77	37.93	23.34	44.41	100	241	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10620	50.72	-23.28	74	34.17	39.1	19.17	41.72	100	345	P	V
		10620	41.94	-12.06	54	25.39	39.1	19.17	41.72	100	345	A	V
		15930	50.29	-23.71	74	33.43	37.93	23.34	44.41	100	331	P	V
		15930	41.51	-12.49	54	24.65	37.93	23.34	44.41	100	331	A	V
													V
													V
													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 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		5459.68	50.73	-23.27	74	42.27	32.98	13.34	37.86	100	270	P	H
		5463.52	52.25	-15.95	68.2	43.8	32.97	13.34	37.86	100	270	P	H
		5459.44	42.1	-11.9	54	33.64	32.98	13.34	37.86	100	270	A	H
	*	5530	101.98	-	-	93.53	32.9	13.43	37.88	100	270	P	H
	*	5530	94.12	-	-	85.67	32.9	13.43	37.88	100	270	A	H
		5736.65	47.35	-20.85	68.2	38.01	33.69	13.57	37.92	100	270	P	H
		5456.56	53.13	-20.87	74	44.66	32.99	13.33	37.85	377	159	P	V
		5464.48	54.68	-13.52	68.2	46.23	32.97	13.34	37.86	377	159	P	V
		5458	44.67	-9.33	54	36.2	32.98	13.34	37.85	377	159	A	V
	*	5530	103.78	-	-	95.33	32.9	13.43	37.88	377	159	P	V
	*	5530	95.82	-	-	87.37	32.9	13.43	37.88	377	159	A	V
		5751.14	47.83	-20.37	68.2	38.38	33.8	13.58	37.93	377	159	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)

[illegible]



<Sample 2>

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5149.24	51.1	-22.9	74	43.19	32.9	12.75	37.74	100	71	P	H
		5150	41.48	-12.52	54	33.56	32.9	12.76	37.74	100	71	A	H
	*	5180	108.22	-	-	100.2	32.96	12.81	37.75	100	71	P	H
	*	5180	101.55	-	-	93.53	32.96	12.81	37.75	100	71	A	H
													H
													H
		5010.66	49.75	-24.25	74	41.89	33.06	12.49	37.69	308	285	P	V
		5150	40.6	-13.4	54	32.68	32.9	12.76	37.74	308	285	A	V
	*	5180	107.08	-	-	99.06	32.96	12.81	37.75	308	285	P	V
	*	5180	100.45	-	-	92.43	32.96	12.81	37.75	308	285	A	V
													V
													V
802.11a CH 44 5220MHz		5085.8	49.88	-24.12	74	42	32.97	12.63	37.72	100	62	P	H
		5072.02	39.15	-14.85	54	31.32	32.94	12.61	37.72	100	62	A	H
	*	5220	106.65	-	-	98.57	32.96	12.89	37.77	100	62	P	H
	*	5220	100.22	-	-	92.14	32.96	12.89	37.77	100	62	A	H
		5421.64	48.31	-25.69	74	39.92	32.94	13.29	37.84	100	62	P	H
		5382.72	37.44	-16.56	54	29.22	32.83	13.22	37.83	100	62	A	H
		5120.64	50.56	-23.44	74	42.63	32.96	12.7	37.73	298	300	P	V
		5097.5	37.75	-16.25	54	29.83	32.99	12.66	37.73	298	300	A	V
	*	5220	102.67	-	-	94.59	32.96	12.89	37.77	298	300	P	V
	*	5220	95.74	-	-	87.66	32.96	12.89	37.77	298	300	A	V
		5428.08	46.78	-27.22	74	38.36	32.96	13.3	37.84	298	300	P	V
		5397.84	36.94	-17.06	54	28.62	32.89	13.26	37.83	298	300	A	V



802.11a CH 48 5240MHz		5114.14	50.12	-23.88	74	42.19	32.97	12.69	37.73	100	48	P	H
		5097.5	39.24	-14.76	54	31.32	32.99	12.66	37.73	100	48	A	H
	*	5240	106.91	-	-	98.84	32.92	12.93	37.78	100	48	P	H
	*	5240	100.66	-	-	92.59	32.92	12.93	37.78	100	48	A	H
		5411.28	48.16	-25.84	74	39.81	32.92	13.27	37.84	100	48	P	H
		5396.72	38.02	-15.98	54	29.71	32.89	13.25	37.83	100	48	A	H
		5059.02	49.89	-24.11	74	42.1	32.92	12.58	37.71	305	281	P	V
		5080.34	38.48	-15.52	54	30.62	32.96	12.62	37.72	305	281	A	V
	*	5240	107.13	-	-	99.06	32.92	12.93	37.78	305	281	P	V
	*	5240	99.81	-	-	91.74	32.92	12.93	37.78	305	281	A	V
		5439.56	48.81	-25.19	74	40.37	32.98	13.31	37.85	305	281	P	V
		5388.32	37.76	-16.24	54	29.5	32.85	13.24	37.83	305	281	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 1 5150~5250MHz****WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 2	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	50.35	-17.85	68.2	34.27	38.78	18.91	41.61	-	-	P	H
		15540	53.52	-20.48	74	36.98	38.22	23.1	44.78	100	165	P	H
		15540	40.67	-13.33	54	24.13	38.22	23.1	44.78	100	165	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10360	50.54	-17.66	68.2	34.46	38.78	18.91	41.61	-	-	P	V
		15540	53.96	-20.04	74	37.42	38.22	23.1	44.78	257	246	P	V
		15540	37.89	-16.11	54	21.35	38.22	23.1	44.78	257	246	A	V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 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	49.69	-18.51	68.2	33.65	38.74	18.99	41.69	-	-	P	H
		15660	52.44	-21.56	74	36.01	37.92	23.18	44.67	100	215	P	H
		15660	40.79	-13.21	54	24.36	37.92	23.18	44.67	100	215	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10440	49.65	-18.55	68.2	33.61	38.74	18.99	41.69	-	-	P	V
		15660	51.54	-22.46	74	35.11	37.92	23.18	44.67	100	129	P	V
		15660	39	-15	54	22.57	37.92	23.18	44.67	100	129	A	V
													V
													V
													V
													V
													V
													V

[illegible]

**Band 2 - 5250~5350MHz****WIFI 802.11a (Band Edge @ 3m)**

WIFI Ant. 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		5144.16	49.26	-24.74	74	41.35	32.91	12.74	37.74	100	98	P	H
		5121.38	38.44	-15.56	54	30.51	32.96	12.7	37.73	100	98	A	H
	*	5260	104.72	-	-	96.63	32.9	12.97	37.78	100	98	P	H
	*	5260	97.49	-	-	89.4	32.9	12.97	37.78	100	98	A	H
		5423.28	47.35	-26.65	74	38.95	32.95	13.29	37.84	100	98	P	H
		5453.52	37.17	-16.83	54	28.7	32.99	13.33	37.85	100	98	A	H
		5095.88	49.65	-24.35	74	41.73	32.99	12.65	37.72	297	290	P	V
		5112.88	38.74	-15.26	54	30.82	32.97	12.68	37.73	297	290	A	V
	*	5260	107.07	-	-	98.98	32.9	12.97	37.78	297	290	P	V
	*	5260	99.51	-	-	91.42	32.9	12.97	37.78	297	290	A	V
		5402.16	48.4	-25.6	74	40.07	32.9	13.26	37.83	297	290	P	V
		5432.16	38.17	-15.83	54	29.76	32.96	13.3	37.85	297	290	A	V
802.11a CH 60 5300MHz		5137.02	50.43	-23.57	74	42.51	32.93	12.73	37.74	100	57	P	H
		5123.42	39.3	-14.7	54	31.38	32.95	12.7	37.73	100	57	A	H
	*	5300	108.18	-	-	100.02	32.9	13.06	37.8	100	57	P	H
	*	5300	101.07	-	-	92.91	32.9	13.06	37.8	100	57	A	H
		5453.52	48.8	-25.2	74	40.33	32.99	13.33	37.85	100	57	P	H
		5458.8	38.04	-15.96	54	29.58	32.98	13.34	37.86	100	57	A	H
		5127.84	49.49	-24.51	74	41.58	32.94	12.71	37.74	261	282	P	V
		5144.5	38.98	-15.02	54	31.07	32.91	12.74	37.74	261	282	A	V
	*	5300	109.38	-	-	101.22	32.9	13.06	37.8	261	282	P	V
	*	5300	102.11	-	-	93.95	32.9	13.06	37.8	261	282	A	V
		5439.84	48.96	-25.04	74	40.52	32.98	13.31	37.85	261	282	P	V
		5458.8	38.97	-15.03	54	30.51	32.98	13.34	37.86	261	282	A	V



802.11a CH 64 5320MHz	*	5320	111.29	-	-	103.18	32.82	13.1	37.81	100	159	P	H
	*	5320	104.34	-	-	96.23	32.82	13.1	37.81	100	159	A	H
		5350.56	52.48	-21.52	74	44.44	32.7	13.16	37.82	100	159	P	H
		5350.08	42.27	-11.73	54	34.23	32.7	13.16	37.82	100	159	A	H
													H
													H
	*	5320	109.68	-	-	101.57	32.82	13.1	37.81	257	282	P	V
	*	5320	102.74	-	-	94.63	32.82	13.1	37.81	257	282	A	V
		5350.24	50.76	-23.24	74	42.72	32.7	13.16	37.82	257	282	P	V
		5350.08	41.3	-12.7	54	33.26	32.7	13.16	37.82	257	282	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 2	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		10520	51.05	-17.15	68.2	34.86	38.86	19.07	41.74	-	-	P	H
		15780	52.14	-21.86	74	35.64	37.8	23.25	44.55	100	246	P	H
		15780	42.63	-11.37	54	26.13	37.8	23.25	44.55	100	246	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10520	50.11	-18.09	68.2	33.92	38.86	19.07	41.74	-	-	P	V
		15780	50.69	-23.31	74	34.19	37.8	23.25	44.55	100	337	P	V
		15780	41.18	-12.82	54	24.68	37.8	23.25	44.55	100	337	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 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)
i802.11a CH 60 5300MHz		10600	50.19	-23.81	74	33.66	39.1	19.15	41.72	100	255	P	H
		10600	40.7	-13.3	54	24.17	39.1	19.15	41.72	100	255	A	H
		15900	52.39	-21.61	74	35.61	37.9	23.32	44.44	100	251	P	H
		15900	42.9	-11.1	54	26.12	37.9	23.32	44.44	100	251	A	H
													H
													H
													H
													H
													H
													H
													H
													H
		10600	50.73	-23.27	74	34.2	39.1	19.15	41.72	100	341	P	V
		10600	41.24	-12.76	54	24.71	39.1	19.15	41.72	100	341	A	V
		15900	51.43	-22.57	74	34.65	37.9	23.32	44.44	100	333	P	V
		15900	41.94	-12.06	54	25.16	37.9	23.32	44.44	100	333	A	V
													V
													V
													V
													V
													V
													V



WIFI Ant. 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 64 5320MHz		10640	50.37	-23.63	74	33.8	39.1	19.19	41.72	100	251	P	H
		10640	41.49	-12.51	54	24.92	39.1	19.19	41.72	100	251	A	H
		15960	51.9	-22.1	74	34.96	37.96	23.36	44.38	100	247	P	H
		15960	42.11	-11.89	54	25.17	37.96	23.36	44.38	100	247	A	H
													H
													H
													H
													H
													H
													H
													H
													H
		10640	51.16	-22.84	74	34.59	39.1	19.19	41.72	100	346	P	V
		10640	42.37	-11.63	54	25.8	39.1	19.19	41.72	100	346	A	V
		15960	51.61	-22.39	74	34.67	37.96	23.36	44.38	100	342	P	V
		15960	42.84	-11.16	54	25.9	37.96	23.36	44.38	100	342	A	V
													V
													V
													V
													V
												V	
												V	
												V	
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1	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		5351.92	48.01	-25.99	74	39.96	32.71	13.16	37.82	292	277	P	H
		5466	47.51	-20.69	68.2	39.05	32.97	13.35	37.86	292	277	P	H
		5458.96	37.84	-16.16	54	29.38	32.98	13.34	37.86	292	277	A	H
	*	5500	107.29	-	-	98.87	32.9	13.39	37.87	292	277	P	H
	*	5500	99.92	-	-	91.5	32.9	13.39	37.87	292	277	A	H
													H
		5453.84	49.27	-24.73	74	40.8	32.99	13.33	37.85	400	156	P	V
		5465.52	48.36	-19.84	68.2	39.9	32.97	13.35	37.86	400	156	P	V
		5459.44	39.06	-14.94	54	30.6	32.98	13.34	37.86	400	156	A	V
	*	5500	110.37	-	-	101.95	32.9	13.39	37.87	400	156	P	V
	*	5500	102.84	-	-	94.42	32.9	13.39	37.87	400	156	A	V
													V
802.11a CH 116 5580MHz		5393.2	48.92	-25.08	74	40.63	32.87	13.25	37.83	298	279	P	H
		5466.4	47.07	-21.13	68.2	38.61	32.97	13.35	37.86	298	279	P	H
		5407.6	38.51	-15.49	54	30.16	32.92	13.27	37.84	298	279	A	H
	*	5580	104.83	-	-	96.15	33.08	13.49	37.89	298	279	P	H
	*	5580	97.46	-	-	88.78	33.08	13.49	37.89	298	279	A	H
		5730.98	48.56	-19.64	68.2	39.26	33.65	13.57	37.92	298	279	P	H
		5412.16	50.55	-23.45	74	42.19	32.92	13.28	37.84	400	158	P	V
		5463.04	49.25	-18.95	68.2	40.8	32.97	13.34	37.86	400	158	P	V
		5417.44	39.46	-14.54	54	31.09	32.93	13.28	37.84	400	158	A	V
	*	5580	105.98	-	-	97.3	33.08	13.49	37.89	400	158	P	V
	*	5580	98.74	-	-	90.06	33.08	13.49	37.89	400	158	A	V
		5760.275	48.48	-19.72	68.2	38.99	33.84	13.58	37.93	400	158	P	V



802.11a CH 140 5700MHz	*	5700	104.58	-	-	95.53	33.4	13.56	37.91	300	285	P	H
	*	5700	97.11	-	-	88.06	33.4	13.56	37.91	300	285	A	H
		5728.2	49.81	-18.39	68.2	40.53	33.63	13.57	37.92	300	285	P	H
													H
													H
													H
	*	5700	112.34	-	-	103.29	33.4	13.56	37.91	387	150	P	V
	*	5700	105.13	-	-	96.08	33.4	13.56	37.91	387	150	A	V
		5725.32	54.29	-13.91	68.2	45.04	33.6	13.57	37.92	387	150	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	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	51.27	-22.73	74	34.48	38.9	19.55	41.66	100	253	P	H
		11000	42.48	-11.52	54	25.69	38.9	19.55	41.66	100	253	A	H
		16500	51.45	-16.75	68.2	33.51	38.6	23.72	44.38	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11000	50.29	-23.71	74	33.5	38.9	19.55	41.66	100	347	P	V
		11000	41.5	-12.5	54	24.71	38.9	19.55	41.66	100	347	A	V
		16500	51.42	-16.78	68.2	33.48	38.6	23.72	44.38	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1	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	51.14	-22.86	74	34.38	39.06	19.68	41.98	100	251	P	H
		11160	42.35	-11.65	54	25.59	39.06	19.68	41.98	100	251	A	H
		16740	51.79	-16.41	68.2	33.87	38.44	23.88	44.4	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11160	51.45	-22.55	74	34.69	39.06	19.68	41.98	100	342	P	V
		11160	42.66	-11.34	54	25.9	39.06	19.68	41.98	100	342	A	V
		16740	51.91	-16.29	68.2	33.99	38.44	23.88	44.4	-	-	P	V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1	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 140 5700MHz		11140	50.27	-23.73	74	33.51	39.04	19.66	41.94	100	255	P	H
		11140	41.49	-12.51	54	24.73	39.04	19.66	41.94	100	255	A	H
		17100	50.93	-17.27	68.2	33.38	38	24.11	44.56	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11140	50.91	-23.09	74	34.15	39.04	19.66	41.94	100	341	P	V
		11140	42.12	-11.88	54	25.36	39.04	19.66	41.94	100	341	A	V
		17100	50.9	-17.3	68.2	33.35	38	24.11	44.56	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



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		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		5436.58	46.82	-27.18	74	38.39	32.97	13.31	37.85	286	288	P	H
		5467.78	46.3	-21.9	68.2	37.85	32.96	13.35	37.86	286	288	P	H
		5457.64	37.49	-16.51	54	29.03	32.98	13.33	37.85	286	288	A	H
	*	5720	105.19	-	-	95.98	33.56	13.57	37.92	286	288	P	H
	*	5720	98.02	-	-	88.81	33.56	13.57	37.92	286	288	A	H
		5862	48.21	-19.99	68.2	38.16	34.3	13.7	37.95	286	288	P	H
		5455.69	47.37	-26.63	74	38.9	32.99	13.33	37.85	387	151	P	V
		5467.39	46.16	-22.04	68.2	37.7	32.97	13.35	37.86	387	151	P	V
		5447.5	38.1	-15.9	54	29.64	32.99	13.32	37.85	387	151	A	V
	*	5720	111.59	-	-	102.38	33.56	13.57	37.92	387	151	P	V
	*	5720	104.86	-	-	95.65	33.56	13.57	37.92	387	151	A	V
		5900	50.71	-17.49	68.2	40.61	34.3	13.76	37.96	387	151	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	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 144 5720MHz		11440	51.13	-22.87	74	34.5	39.28	19.89	42.54	100	249	P	H
		11440	42.35	-11.65	54	25.72	39.28	19.89	42.54	100	249	A	H
		17160	51.7	-16.5	68.2	34.25	37.94	24.15	44.64	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11440	50.31	-23.69	74	33.68	39.28	19.89	42.54	100	343	P	V
		11440	41.52	-12.48	54	24.89	39.28	19.89	42.54	100	343	A	V
		17160	51.15	-17.05	68.2	33.7	37.94	24.15	44.64	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Band 1 - 5150~5250MHz

WIFI 802.11ax HE20 Full (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)
802.11ax HE20 Full CH 36 5180MHz		5150	49.91	-24.09	74	41.99	32.9	12.76	37.74	102	166	P	H
		5149.5	40.61	-13.39	54	32.7	32.9	12.75	37.74	102	166	A	H
	*	5180	109.22	-	-	101.2	32.96	12.81	37.75	102	166	P	H
	*	5180	102.65	-	-	94.63	32.96	12.81	37.75	102	166	A	H
													H
													H
		5125.32	47.87	-26.13	74	39.95	32.95	12.71	37.74	144	196	P	V
		5150	39.12	-14.88	54	31.2	32.9	12.76	37.74	144	196	A	V
	*	5180	105.43	-	-	97.41	32.96	12.81	37.75	144	196	P	V
	*	5180	97.83	-	-	89.81	32.96	12.81	37.75	144	196	A	V
													V
													V
802.11ax HE20 Full CH 44 5220MHz		5133.9	46.85	-27.15	74	38.94	32.93	12.72	37.74	151	167	P	H
		5140.66	38.16	-15.84	54	30.24	32.92	12.74	37.74	151	167	A	H
	*	5220	110.27	-	-	102.19	32.96	12.89	37.77	151	167	P	H
	*	5220	104.1	-	-	96.02	32.96	12.89	37.77	151	167	A	H
		5408.76	45.95	-28.05	74	37.6	32.92	13.27	37.84	151	167	P	H
		5370.68	37.06	-16.94	54	28.9	32.78	13.2	37.82	151	167	A	H
		5080.34	47.37	-26.63	74	39.51	32.96	12.62	37.72	350	158	P	V
		5107.64	37.94	-16.06	54	30.02	32.98	12.67	37.73	350	158	A	V
	*	5220	109.11	-	-	101.03	32.96	12.89	37.77	350	158	P	V
	*	5220	101.52	-	-	93.44	32.96	12.89	37.77	350	158	A	V
		5361.72	45.12	-28.88	74	37.01	32.75	13.18	37.82	350	158	P	V
		5400.08	36.92	-17.08	54	28.59	32.9	13.26	37.83	350	158	A	V



802.11ax HE20 Full CH 48 5240MHz		5102.18	48.5	-25.5	74	40.57	33	12.66	37.73	100	165	P	H
		5092.82	38.24	-15.76	54	30.32	32.99	12.65	37.72	100	165	A	H
	*	5240	111.7	-	-	103.63	32.92	12.93	37.78	100	165	P	H
	*	5240	103.92	-	-	95.85	32.92	12.93	37.78	100	165	A	H
		5416.04	46.67	-27.33	74	38.3	32.93	13.28	37.84	100	165	P	H
		5444.88	37.6	-16.4	54	29.14	32.99	13.32	37.85	100	165	A	H
		5053.82	48.25	-25.75	74	40.48	32.91	12.57	37.71	144	196	P	V
		5092.82	37.91	-16.09	54	29.99	32.99	12.65	37.72	144	196	A	V
	*	5240	106.79	-	-	98.72	32.92	12.93	37.78	144	196	P	V
	*	5240	98.26	-	-	90.19	32.92	12.93	37.78	144	196	A	V
		5379.64	46.86	-27.14	74	38.65	32.82	13.22	37.83	144	196	P	V
		5400.08	37.22	-16.78	54	28.89	32.9	13.26	37.83	144	196	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 HE20 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 HE20 Full CH 36 5180MHz		10360	50.25	-17.95	68.2	34.17	38.78	18.91	41.61	-	-	P	H
		15540	50.87	-23.13	74	34.33	38.22	23.1	44.78	108	241	P	H
		15540	41.91	-12.09	54	25.37	38.22	23.1	44.78	108	241	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10360	50.09	-18.11	68.2	34.01	38.78	18.91	41.61	-	-	P	V
		15540	51.22	-22.78	74	34.68	38.22	23.1	44.78	117	339	P	V
		15540	42.03	-11.97	54	25.49	38.22	23.1	44.78	117	339	A	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 44 5220MHz		10440	49.43	-18.77	68.2	33.39	38.74	18.99	41.69	-	-	P	H
		15660	50.54	-23.46	74	34.11	37.92	23.18	44.67	100	177	P	H
		15660	41.67	-12.33	54	25.24	37.92	23.18	44.67	100	177	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10440	50.28	-17.92	68.2	34.24	38.74	18.99	41.69	-	-	P	V
		15660	50.65	-23.35	74	34.22	37.92	23.18	44.67	132	339	P	V
		15660	41.77	-12.23	54	25.34	37.92	23.18	44.67	132	339	A	V
													V
													V
													V
													V
													V
													V

[illegible]



Band 1 5150~5250MHz

WIFI 802.11ax HE20 Partial 26 (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 Partial 26/0 CH 36 5180MHz		5080.34	47.49	-26.51	74	39.63	32.96	12.62	37.72	171	169	P	H
		5133.38	37.84	-16.16	54	29.93	32.93	12.72	37.74	171	169	A	H
	*	5180	110.93	-	-	102.91	32.96	12.81	37.75	171	169	P	H
	*	5180	103.89	-	-	95.87	32.96	12.81	37.75	171	169	A	H
													H
													H
		5117.26	46.78	-27.22	74	38.85	32.97	12.69	37.73	130	323	P	V
		5104.78	37.39	-16.61	54	29.46	32.99	12.67	37.73	130	323	A	V
	*	5180	104.27	-	-	96.25	32.96	12.81	37.75	130	323	P	V
	*	5180	96.98	-	-	88.96	32.96	12.81	37.75	130	323	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

[illegible]



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		5148.98	60.01	-13.99	74	52.1	32.9	12.75	37.74	154	167	P	H
		5150	51.23	-2.77	54	43.31	32.9	12.76	37.74	154	167	A	H
	*	5190	107.71	-	-	99.66	32.98	12.83	37.76	154	167	P	H
	*	5190	100.14	-	-	92.09	32.98	12.83	37.76	154	167	A	H
		5353.04	46.79	-27.21	74	38.74	32.71	13.16	37.82	154	167	P	H
		5351.36	37.73	-16.27	54	29.68	32.71	13.16	37.82	154	167	A	H
		5149.5	57.47	-16.53	74	49.56	32.9	12.75	37.74	367	197	P	V
		5150	48	-6	54	40.08	32.9	12.76	37.74	367	197	A	V
	*	5190	105.56	-	-	97.51	32.98	12.83	37.76	367	197	P	V
	*	5190	95.6	-	-	87.55	32.98	12.83	37.76	367	197	A	V
		5368.44	47.17	-26.83	74	39.02	32.77	13.2	37.82	367	197	P	V
		5458.32	36.53	-17.47	54	28.06	32.98	13.34	37.85	367	197	A	V
802.11ax HE40 Full CH 46 5230MHz		5128.18	47.99	-26.01	74	40.08	32.94	12.71	37.74	155	158	P	H
		5150	37.88	-16.12	54	29.96	32.9	12.76	37.74	155	158	A	H
	*	5230	106.13	-	-	98.05	32.94	12.91	37.77	155	158	P	H
	*	5230	98.51	-	-	90.43	32.94	12.91	37.77	155	158	A	H
		5453.28	45.78	-28.22	74	37.31	32.99	13.33	37.85	155	158	P	H
		5382.72	36.84	-17.16	54	28.62	32.83	13.22	37.83	155	158	A	H
		5072.28	47.41	-26.59	74	39.58	32.94	12.61	37.72	350	156	P	V
		5150	37.9	-16.1	54	29.98	32.9	12.76	37.74	350	156	A	V
	*	5230	105.1	-	-	97.02	32.94	12.91	37.77	350	156	P	V
	*	5230	98.05	-	-	89.97	32.94	12.91	37.77	350	156	A	V
		5435.92	46.41	-27.59	74	37.98	32.97	13.31	37.85	350	156	P	V
		5400.08	37.23	-16.77	54	28.9	32.9	13.26	37.83	350	156	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)

[illegible]

[illegible]



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		5149.76	62.66	-11.34	74	54.75	32.9	12.75	37.74	133	162	P	H
		5150	51.2	-2.8	54	43.28	32.9	12.76	37.74	133	162	A	H
	*	5210	104.9	-	-	96.82	32.98	12.87	37.77	133	162	P	H
	*	5210	96.13	-	-	88.05	32.98	12.87	37.77	133	162	A	H
		5358.36	47.61	-26.39	74	39.53	32.73	13.17	37.82	133	162	P	H
		5351.36	37.89	-16.11	54	29.84	32.71	13.16	37.82	133	162	A	H
		5149.24	60.38	-13.62	74	52.47	32.9	12.75	37.74	339	198	P	V
		5146.38	49.44	-4.56	54	41.52	32.91	12.75	37.74	339	198	A	V
	*	5210	102.29	-	-	94.21	32.98	12.87	37.77	339	198	P	V
	*	5210	93.03	-	-	84.95	32.98	12.87	37.77	339	198	A	V
		5439.98	45.98	-28.02	74	37.54	32.98	13.31	37.85	339	198	P	V
		5399.94	36.94	-17.06	54	28.61	32.9	13.26	37.83	339	198	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 HE80 Full (Harmonic @ 3m)

[illegible]



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		5058.82	48.57	-25.43	74	40.78	32.92	12.58	37.71	149	167	P	H
		5105.74	38.37	-15.63	54	30.44	32.99	12.67	37.73	149	167	A	H
	*	5260	112.47	-	-	104.38	32.9	12.97	37.78	149	167	P	H
	*	5260	103.86	-	-	95.77	32.9	12.97	37.78	149	167	A	H
		5416.08	47.12	-26.88	74	38.75	32.93	13.28	37.84	149	167	P	H
		5436.24	37.06	-16.94	54	28.63	32.97	13.31	37.85	149	167	A	H
		5118.32	48.5	-25.5	74	40.58	32.96	12.69	37.73	351	159	P	V
		5107.44	38.17	-15.83	54	30.24	32.99	12.67	37.73	351	159	A	V
	*	5260	108.37	-	-	100.28	32.9	12.97	37.78	351	159	P	V
	*	5260	101.57	-	-	93.48	32.9	12.97	37.78	351	159	A	V
		5387.76	46.12	-27.88	74	37.87	32.85	13.23	37.83	351	159	P	V
		5400.24	36.82	-17.18	54	28.49	32.9	13.26	37.83	351	159	A	V
802.11ax HE20 Full CH 60 5300MHz		5023.8	48	-26	74	40.18	33	12.52	37.7	149	167	P	H
		5136.34	38.49	-15.51	54	30.57	32.93	12.73	37.74	149	167	A	H
	*	5300	112.26	-	-	104.1	32.9	13.06	37.8	149	167	P	H
	*	5300	103.46	-	-	95.3	32.9	13.06	37.8	149	167	A	H
		5456.64	46.36	-27.64	74	37.89	32.99	13.33	37.85	149	167	P	H
		5458.8	37.03	-16.97	54	28.57	32.98	13.34	37.86	149	167	A	H
		5092.82	47.68	-26.32	74	39.76	32.99	12.65	37.72	349	156	P	V
		5148.58	38.06	-15.94	54	30.15	32.9	12.75	37.74	349	156	A	V
	*	5300	110.15	-	-	101.99	32.9	13.06	37.8	349	156	P	V
	*	5300	101.06	-	-	92.9	32.9	13.06	37.8	349	156	A	V
		5379.12	45.79	-28.21	74	37.58	32.82	13.22	37.83	349	156	P	V
		5458.8	37.07	-16.93	54	28.61	32.98	13.34	37.86	349	156	A	V



802.11ax HE20 Full CH 64 5320MHz	*	5320	112.34	-	-	104.23	32.82	13.1	37.81	147	167	P	H
	*	5320	104.19	-	-	96.08	32.82	13.1	37.81	147	167	A	H
		5350.72	50.03	-23.97	74	41.99	32.7	13.16	37.82	147	167	P	H
		5350.08	41.49	-12.51	54	33.45	32.7	13.16	37.82	147	167	A	H
													H
													H
	*	5320	107.03	-	-	98.92	32.82	13.1	37.81	370	204	P	V
	*	5320	99.98	-	-	91.87	32.82	13.1	37.81	370	204	A	V
		5352.32	48.22	-25.78	74	40.17	32.71	13.16	37.82	370	204	P	V
		5350.08	40.7	-13.3	54	32.66	32.7	13.16	37.82	370	204	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 802.11ax HE20 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 HE20 Full CH 52 5260MHz		10520	49.83	-18.37	68.2	33.64	38.86	19.07	41.74	-	-	P	H
		15780	50.29	-23.71	74	33.79	37.8	23.25	44.55	100	218	P	H
		15780	41.97	-12.03	54	25.47	37.8	23.25	44.55	100	218	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10520	49.8	-18.4	68.2	33.61	38.86	19.07	41.74	-	-	P	V
		15780	50.21	-23.79	74	33.71	37.8	23.25	44.55	100	312	P	V
		15780	41.82	-12.18	54	25.32	37.8	23.25	44.55	100	312	A	V
													V
													V
													V
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													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 60 5300MHz		10600	50.38	-23.62	74	33.85	39.1	19.15	41.72	100	154	P	H
		10600	41.7	-12.3	54	25.17	39.1	19.15	41.72	100	154	A	H
		15900	56.94	-17.06	74	40.16	37.9	23.32	44.44	100	179	P	H
		15900	43.22	-10.78	54	26.44	37.9	23.32	44.44	100	179	A	H
													H
													H
													H
													H
													H
													H
													H
													H
		10600	51.12	-22.88	74	34.59	39.1	19.15	41.72	107	332	P	V
		10600	41.86	-12.14	54	25.33	39.1	19.15	41.72	107	332	A	V
		15900	52.17	-21.83	74	35.39	37.9	23.32	44.44	100	317	P	V
		15900	42.22	-11.78	54	25.44	37.9	23.32	44.44	100	317	A	V
													V
													V
													V
													V
													V
													V
													V

[illegible]



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		5051.68	47.98	-26.02	74	40.22	32.9	12.57	37.71	157	156	P	H
		5116.28	38.1	-15.9	54	30.17	32.97	12.69	37.73	157	156	A	H
	*	5270	106.19	-	-	98.09	32.9	12.99	37.79	157	156	P	H
	*	5270	99.02	-	-	90.92	32.9	12.99	37.79	157	156	A	H
		5383.68	45.85	-28.15	74	37.62	32.83	13.23	37.83	157	156	P	H
		5447.52	37	-17	54	28.53	33	13.32	37.85	157	156	A	H
		5121.38	47.78	-26.22	74	39.85	32.96	12.7	37.73	350	156	P	V
		5115.6	38.07	-15.93	54	30.14	32.97	12.69	37.73	350	156	A	V
	*	5270	108.71	-	-	100.61	32.9	12.99	37.79	350	156	P	V
	*	5270	98.53	-	-	90.43	32.9	12.99	37.79	350	156	A	V
		5433.12	46.71	-27.29	74	38.29	32.97	13.3	37.85	350	156	P	V
		5452.32	37.11	-16.89	54	28.63	33	13.33	37.85	350	156	A	V
802.11ax HE40 Full CH 62 5310MHz		5023.12	48.2	-25.8	74	40.38	33.01	12.51	37.7	158	166	P	H
		5145.18	38.36	-15.64	54	30.44	32.91	12.75	37.74	158	166	A	H
	*	5310	109.62	-	-	101.48	32.86	13.08	37.8	158	166	P	H
	*	5310	101.15	-	-	93.01	32.86	13.08	37.8	158	166	A	H
		5352	60.35	-13.65	74	52.3	32.71	13.16	37.82	158	166	P	H
		5350.08	52.67	-1.33	54	44.63	32.7	13.16	37.82	158	166	A	H
		5126.14	47.8	-26.2	74	39.88	32.95	12.71	37.74	354	202	P	V
		5147.56	37.96	-16.04	54	30.05	32.9	12.75	37.74	354	202	A	V
	*	5310	105.06	-	-	96.92	32.86	13.08	37.8	354	202	P	V
	*	5310	97.25	-	-	89.11	32.86	13.08	37.8	354	202	A	V
		5350.32	56.97	-17.03	74	48.93	32.7	13.16	37.82	354	202	P	V
		5350.08	50.21	-3.79	54	42.17	32.7	13.16	37.82	354	202	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)**

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		10540	50.14	-18.06	68.2	33.86	38.92	19.09	41.73	-	-	P	H
		15810	51.01	-22.99	74	34.45	37.81	23.27	44.52	124	38	P	H
		15810	42.04	-11.96	54	25.48	37.81	23.27	44.52	124	38	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10540	50.43	-17.77	68.2	34.15	38.92	19.09	41.73	-	-	P	V
		15810	50.66	-23.34	74	34.1	37.81	23.27	44.52	133	322	P	V
		15810	42.03	-11.97	54	25.47	37.81	23.27	44.52	133	322	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

[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		5064.8	47.25	-26.75	74	39.44	32.93	12.59	37.71	146	168	P	H
		5148.2	38.48	-15.52	54	30.57	32.9	12.75	37.74	146	168	A	H
	*	5290	107.3	-	-	99.16	32.9	13.03	37.79	146	168	P	H
	*	5290	97.65	-	-	89.51	32.9	13.03	37.79	146	168	A	H
		5350.32	60.68	-13.32	74	52.64	32.7	13.16	37.82	146	168	P	H
		5350.08	52.56	-1.44	54	44.52	32.7	13.16	37.82	146	168	A	H
		5087	47.39	-26.61	74	39.5	32.97	12.64	37.72	354	202	P	V
		5150	38.09	-15.91	54	30.17	32.9	12.76	37.74	354	202	A	V
	*	5290	102.53	-	-	94.39	32.9	13.03	37.79	354	202	P	V
	*	5290	92.99	-	-	84.85	32.9	13.03	37.79	354	202	A	V
		5359.92	58.85	-15.15	74	50.75	32.74	13.18	37.82	354	202	P	V
		5353.44	49.04	-4.96	54	40.99	32.71	13.16	37.82	354	202	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 HE80 Full (Harmonic @ 3m)

[illegible]



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		5456.24	48.81	-25.19	74	40.34	32.99	13.33	37.85	100	165	P	H
		5467.76	50.01	-18.19	68.2	41.56	32.96	13.35	37.86	100	165	P	H
		5459.44	39.22	-14.78	54	30.76	32.98	13.34	37.86	100	165	A	H
	*	5500	111.61	-	-	103.19	32.9	13.39	37.87	100	165	P	H
	*	5500	102.84	-	-	94.42	32.9	13.39	37.87	100	165	A	H
		5455.92	47.19	-26.81	74	38.72	32.99	13.33	37.85	348	208	P	V
		5468.72	48.71	-19.49	68.2	40.26	32.96	13.35	37.86	348	208	P	V
		5459.92	38.72	-15.28	54	30.26	32.98	13.34	37.86	348	208	A	V
	*	5500	107.99	-	-	99.57	32.9	13.39	37.87	348	208	P	V
	*	5500	100.33	-	-	91.91	32.9	13.39	37.87	348	208	A	V
													V
													V
802.11ax HE20 Full CH 116 5580MHz		5379.28	47.97	-26.03	74	39.76	32.82	13.22	37.83	100	165	P	H
		5464.96	46.86	-21.34	68.2	38.41	32.97	13.34	37.86	100	165	P	H
		5434.48	37.79	-16.21	54	29.37	32.97	13.3	37.85	100	165	A	H
	*	5580	108.69	-	-	100.01	33.08	13.49	37.89	100	165	P	H
	*	5580	101.39	-	-	92.71	33.08	13.49	37.89	100	165	A	H
		5744.21	47.55	-20.65	68.2	38.14	33.75	13.58	37.92	100	165	P	H
		5381.2	46.22	-27.78	74	38.01	32.82	13.22	37.83	350	184	P	V
		5464.72	45.77	-22.43	68.2	37.32	32.97	13.34	37.86	350	184	P	V
		5399.92	37.77	-16.23	54	29.44	32.9	13.26	37.83	350	184	A	V
	*	5580	107.42	-	-	98.74	33.08	13.49	37.89	350	184	P	V
	*	5580	98.38	-	-	89.7	33.08	13.49	37.89	350	184	A	V
		5738.54	48.9	-19.3	68.2	39.53	33.71	13.58	37.92	350	184	P	V



802.11ax HE20 Full CH 140 5700MHz	*	5700	111.94	-	-	102.89	33.4	13.56	37.91	100	158	P	H
	*	5700	103.4	-	-	94.35	33.4	13.56	37.91	100	158	A	H
		5725.24	58.07	-10.13	68.2	48.82	33.6	13.57	37.92	100	158	P	H
													H
													H
													H
	*	5700	111.07	-	-	102.02	33.4	13.56	37.91	350	184	P	V
	*	5700	102.65	-	-	93.6	33.4	13.56	37.91	350	184	A	V
		5725.32	56.86	-11.34	68.2	47.61	33.6	13.57	37.92	350	184	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)**

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		11000	50.55	-23.45	74	33.76	38.9	19.55	41.66	100	28	P	H
		11000	41.16	-12.84	54	24.37	38.9	19.55	41.66	100	28	A	H
		16500	54.67	-13.53	68.2	36.73	38.6	23.72	44.38	100	183	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11000	51.33	-22.67	74	34.54	38.9	19.55	41.66	100	255	P	V
		11000	41.22	-12.78	54	24.43	38.9	19.55	41.66	100	255	A	V
		16500	53.62	-14.58	68.2	35.68	38.6	23.72	44.38	100	29	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)
802.11ax HE20 Full CH 116 5580MHz		11160	52.07	-21.93	74	35.31	39.06	19.68	41.98	100	217	P	H
		11160	42.38	-11.62	54	25.62	39.06	19.68	41.98	100	217	A	H
		16740	52.06	-16.14	68.2	34.14	38.44	23.88	44.4	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11160	50.86	-23.14	74	34.1	39.06	19.68	41.98	108	317	P	V
		11160	42.23	-11.77	54	25.47	39.06	19.68	41.98	108	317	A	V
		16740	51.01	-17.19	68.2	33.09	38.44	23.88	44.4	-	-	P	V
													V
													V
													V
													V
													V
													V

[illegible]



Band 3 5470~5725MHz

WIFI 802.11ax HE20 Partial 26 (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 Partial 26/0 CH 100 5260MHz		5453.36	46.56	-27.44	74	38.09	32.99	13.33	37.85	168	158	P	H
		5465.36	46.09	-22.11	68.2	37.64	32.97	13.34	37.86	168	158	P	H
		5453.36	37.73	-16.27	54	29.26	32.99	13.33	37.85	168	158	A	H
	*	5500	111.28	-	-	102.86	32.9	13.39	37.87	168	158	P	H
	*	5500	104.15	-	-	95.73	32.9	13.39	37.87	168	158	A	H
													H
		5453.52	46.56	-27.44	74	38.09	32.99	13.33	37.85	100	351	P	V
		5464.24	46.5	-21.7	68.2	38.05	32.97	13.34	37.86	100	351	P	V
		5453.04	36.77	-17.23	54	28.3	32.99	13.33	37.85	100	351	A	V
	*	5500	104.73	-	-	96.31	32.9	13.39	37.87	100	351	P	V
	*	5500	97.08	-	-	88.66	32.9	13.39	37.87	100	351	A	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 Partial 26 (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 HE20 Partial 26/0 CH 100 5500MHz		11000	50.91	-23.09	74	34.12	38.9	19.55	41.66	100	244	P	H
		11000	42.03	-11.97	54	25.24	38.9	19.55	41.66	100	244	A	H
		16500	50.53	-17.67	68.2	32.59	38.6	23.72	44.38	-	-	P	H
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		11000	50.23	-23.77	74	33.44	38.9	19.55	41.66	121	332	P	V
		11000	42.02	-11.98	54	25.23	38.9	19.55	41.66	121	332	A	V
		16500	50.69	-17.51	68.2	32.75	38.6	23.72	44.38	-	-	P	V
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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		5459.2	54.81	-19.19	74	46.35	32.98	13.34	37.86	100	158	P	H
		5469.76	58.4	-9.8	68.2	49.95	32.96	13.35	37.86	100	158	P	H
		5459.92	42.81	-11.19	54	34.35	32.98	13.34	37.86	100	158	A	H
	*	5510	106.91	-	-	98.48	32.9	13.4	37.87	100	158	P	H
	*	5510	99.59	-	-	91.16	32.9	13.4	37.87	100	158	A	H
		5730.665	47.93	-20.27	68.2	38.63	33.65	13.57	37.92	100	158	P	H
		5457.28	50.17	-23.83	74	41.7	32.99	13.33	37.85	347	206	P	V
		5469.52	56.11	-12.09	68.2	47.66	32.96	13.35	37.86	347	206	P	V
		5459.92	41.74	-12.26	54	33.28	32.98	13.34	37.86	347	206	A	V
	*	5510	106.74	-	-	98.31	32.9	13.4	37.87	347	206	P	V
	*	5510	97.45	-	-	89.02	32.9	13.4	37.87	347	206	A	V
		5734.76	47.53	-20.67	68.2	38.2	33.68	13.57	37.92	347	206	P	V
802.11ax HE40 Full CH 110 5550MHz		5385.76	46.12	-27.88	74	37.88	32.84	13.23	37.83	157	156	P	H
		5465.2	44.63	-23.57	68.2	36.18	32.97	13.34	37.86	157	156	P	H
		5459.68	36.84	-17.16	54	28.38	32.98	13.34	37.86	157	156	A	H
	*	5550	104.54	-	-	96.07	32.9	13.45	37.88	157	156	P	H
	*	5550	97.85	-	-	89.38	32.9	13.45	37.88	157	156	A	H
		5751.455	46.57	-21.63	68.2	37.11	33.81	13.58	37.93	157	156	P	H
		5417.2	46.1	-27.9	74	37.73	32.93	13.28	37.84	366	155	P	V
		5466.88	45.44	-22.76	68.2	36.98	32.97	13.35	37.86	366	155	P	V
		5392.24	37.26	-16.74	54	28.98	32.87	13.24	37.83	366	155	A	V
	*	5550	103.46	-	-	94.99	32.9	13.45	37.88	366	155	P	V
	*	5550	97.14	-	-	88.67	32.9	13.45	37.88	366	155	A	V
		5726.885	47.95	-20.25	68.2	38.68	33.62	13.57	37.92	366	155	P	V



802.11ax HE40 Full CH 134 5670MHz		5421.4	46.8	-27.2	74	38.41	32.94	13.29	37.84	100	162	P	H
		5461.65	46.35	-21.85	68.2	37.89	32.98	13.34	37.86	100	162	P	H
		5459.55	37.81	-16.19	54	29.35	32.98	13.34	37.86	100	162	A	H
	*	5670	108.12	-	-	99.2	33.28	13.55	37.91	100	162	P	H
	*	5670	100.3	-	-	91.38	33.28	13.55	37.91	100	162	A	H
		5725.1	51.37	-16.83	68.2	42.12	33.6	13.57	37.92	100	162	P	H
		5403.2	46.22	-27.78	74	37.89	32.91	13.26	37.84	350	184	P	V
		5466.55	45.57	-22.63	68.2	37.11	32.97	13.35	37.86	350	184	P	V
		5457.8	36.8	-17.2	54	28.33	32.98	13.34	37.85	350	184	A	V
	*	5670	106.57	-	-	97.65	33.28	13.55	37.91	350	184	P	V
	*	5670	98.71	-	-	89.79	33.28	13.55	37.91	350	184	A	V
		5725	50.63	-17.57	68.2	41.38	33.6	13.57	37.92	350	184	P	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 (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 HE40 Full CH 110 5550MHz		11100	50.68	-23.32	74	33.91	39	19.63	41.86	100	147	P	H
		11100	41.02	-12.98	54	24.25	39	19.63	41.86	100	147	A	H
		16650	51.21	-16.99	68.2	33.28	38.5	23.82	44.39	-	-	P	H
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		11100	50.59	-23.41	74	33.82	39	19.63	41.86	100	322	P	V
		11100	41.81	-12.19	54	25.04	39	19.63	41.86	100	322	A	V
		16650	52.56	-15.64	68.2	34.63	38.5	23.82	44.39	-	-	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 134 5670MHz		11340	50.26	-23.74	74	33.5	39.28	19.82	42.34	100	249	P	H
		11340	41.52	-12.48	54	24.76	39.28	19.82	42.34	100	249	A	H
		17010	51.07	-17.13	68.2	33.44	38	24.06	44.43	-	-	P	H
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		11340	50.59	-23.41	74	33.83	39.28	19.82	42.34	100	337	P	V
		11340	41.74	-12.26	54	24.98	39.28	19.82	42.34	100	337	A	V
		17010	52.06	-16.14	68.2	34.43	38	24.06	44.43	-	-	P	V
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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		5459.68	56.17	-17.83	74	47.71	32.98	13.34	37.86	100	161	P	H
		5460.88	60.36	-7.84	68.2	51.9	32.98	13.34	37.86	100	161	P	H
		5459.92	48.58	-5.42	54	40.12	32.98	13.34	37.86	100	161	A	H
	*	5530	105.61	-	-	97.16	32.9	13.43	37.88	100	161	P	H
	*	5530	97.32	-	-	88.87	32.9	13.43	37.88	100	161	A	H
		5751.77	48.56	-19.64	68.2	39.1	33.81	13.58	37.93	100	161	P	H
		5459.68	55.73	-18.27	74	47.27	32.98	13.34	37.86	345	206	P	V
		5465.44	60.55	-7.65	68.2	52.09	32.97	13.35	37.86	345	206	P	V
		5459.92	46.72	-7.28	54	38.26	32.98	13.34	37.86	345	206	A	V
	*	5530	102.6	-	-	94.15	32.9	13.43	37.88	345	206	P	V
	*	5530	94.39	-	-	85.94	32.9	13.43	37.88	345	206	A	V
		5730.665	47.91	-20.29	68.2	38.61	33.65	13.57	37.92	345	206	P	V
802.11ax HE80 Full CH 122 5610MHz		5447.65	48.56	-25.44	74	40.09	33	13.32	37.85	100	212	P	H
		5468.3	47.72	-20.48	68.2	39.27	32.96	13.35	37.86	100	212	P	H
		5459.9	38.99	-15.01	54	30.53	32.98	13.34	37.86	100	212	A	H
	*	5610	106.54	-	-	97.71	33.2	13.52	37.89	100	212	P	H
	*	5610	98.74	-	-	89.91	33.2	13.52	37.89	100	212	A	H
		5729.475	51.01	-17.19	68.2	41.72	33.64	13.57	37.92	100	212	P	H
		5400.05	46.7	-27.3	74	38.37	32.9	13.26	37.83	299	141	P	V
		5463.4	45.99	-22.21	68.2	37.54	32.97	13.34	37.86	299	141	P	V
		5459.9	36.87	-17.13	54	28.41	32.98	13.34	37.86	299	141	A	V
	*	5610	91.65	-	-	82.82	33.2	13.52	37.89	299	141	P	V
	*	5610	83.69	-	-	74.86	33.2	13.52	37.89	299	141	A	V
		5759.75	48.23	-19.97	68.2	38.74	33.84	13.58	37.93	299	141	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)

[illegible]

[illegible]



Band 3 - Straddle Channel

WIFI 802.11ax HE20 Full (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)
802.11ax HE20 Full CH 144 5720MHz		5430.73	45.95	-28.05	74	37.54	32.96	13.3	37.85	155	158	P	H
		5468.56	45.36	-22.84	68.2	36.91	32.96	13.35	37.86	155	158	P	H
		5454.91	37.01	-16.99	54	28.54	32.99	13.33	37.85	155	158	A	H
	*	5720	108.82	-	-	99.61	33.56	13.57	37.92	155	158	P	H
	*	5720	102.38	-	-	93.17	33.56	13.57	37.92	155	158	A	H
		5853.75	47.12	-21.08	68.2	37.08	34.3	13.69	37.95	155	158	P	H
		5393.68	45.74	-28.26	74	37.45	32.87	13.25	37.83	351	160	P	V
		5468.17	44.81	-23.39	68.2	36.36	32.96	13.35	37.86	351	160	P	V
		5449.06	36.72	-17.28	54	28.25	33	13.32	37.85	351	160	A	V
	*	5720	107.3	-	-	98.09	33.56	13.57	37.92	351	160	P	V
	*	5720	99.47	-	-	90.26	33.56	13.57	37.92	351	160	A	V
		5940.25	48.32	-19.88	68.2	38.17	34.3	13.82	37.97	351	160	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 HE20 Full (Harmonic @ 3m)

[illegible]



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		5446.33	48.14	-25.86	74	39.68	32.99	13.32	37.85	156	166	P	H
		5470	45.47	-22.73	68.2	37.02	32.96	13.35	37.86	156	166	P	H
		5451.79	37.12	-16.88	54	28.64	33	13.33	37.85	156	166	A	H
	*	5710	105.28	-	-	96.16	33.48	13.56	37.92	156	166	P	H
	*	5710	97.95	-	-	88.83	33.48	13.56	37.92	156	166	A	H
		5894.25	47.32	-20.88	68.2	37.23	34.3	13.75	37.96	156	166	P	H
		5429.17	45.79	-28.21	74	37.37	32.96	13.3	37.84	366	155	P	V
		5465.05	45.61	-22.59	68.2	37.16	32.97	13.34	37.86	366	155	P	V
		5446.72	37.3	-16.7	54	28.84	32.99	13.32	37.85	366	155	A	V
	*	5710	102.81	-	-	93.69	33.48	13.56	37.92	366	155	P	V
	*	5710	96.66	-	-	87.54	33.48	13.56	37.92	366	155	A	V
		5905.25	48.07	-20.13	68.2	37.96	34.3	13.77	37.96	366	155	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 HE40 Full (Harmonic @ 3m)

[illegible]



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		5379.25	46.86	-27.14	74	38.65	32.82	13.22	37.83	100	210	P	H
		5469.34	45.47	-22.73	68.2	37.02	32.96	13.35	37.86	100	210	P	H
		5458.81	37.89	-16.11	54	29.43	32.98	13.34	37.86	100	210	A	H
	*	5690	106.93	-	-	97.92	33.36	13.56	37.91	100	210	P	H
	*	5690	98.46	-	-	89.45	33.36	13.56	37.91	100	210	A	H
		5923.9	49.64	-18.56	68.2	39.5	34.3	13.8	37.96	100	210	P	H
		5430.73	45.91	-28.09	74	37.5	32.96	13.3	37.85	267	220	P	V
		5469.73	44.74	-23.46	68.2	36.29	32.96	13.35	37.86	267	220	P	V
		5457.64	37.16	-16.84	54	28.7	32.98	13.33	37.85	267	220	A	V
	*	5690	105.44	-	-	96.43	33.36	13.56	37.91	267	220	P	V
	*	5690	95.65	-	-	86.64	33.36	13.56	37.91	267	220	A	V
		5864.5	48.89	-19.31	68.2	38.84	34.3	13.7	37.95	267	220	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)

[illegible]

Emission above 18GHz

WIFI 802.11ax HE40 Full (SHF @ 1m)

[illegible]

Emission below 1GHz

WIFI 802.11ax HE40 Full (LF @ 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)
802.11ax HE40 Full LF		31.94	23.71	-16.29	40	34.55	23.49	1.33	35.66	-	-	P	H
		119.24	24.48	-19.02	43.5	40.34	17.45	2.21	35.52	-	-	P	H
		193.93	23.42	-20.08	43.5	41.25	14.81	2.75	35.39	-	-	P	H
		259.89	26.24	-19.76	46	38.26	20.09	3.15	35.26	-	-	P	H
		485.9	30.37	-15.63	46	37.14	23.68	4.21	34.66	-	-	P	H
		725.49	38.62	-7.38	46	40.31	27.08	5.07	33.84	-	-	P	H
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		33.88	33.18	-6.82	40	45.02	22.46	1.35	35.65	-	-	P	V
		91.11	23.63	-19.87	43.5	42.57	14.64	2	35.58	-	-	P	V
		191.99	22	-21.5	43.5	39.86	14.79	2.74	35.39	-	-	P	V
		405.39	28.54	-17.46	46	37.34	22.13	3.9	34.83	-	-	P	V
		711.91	36.89	-9.11	46	39.25	26.5	5.03	33.89	-	-	P	V
		737.13	37.7	-8.3	46	38.86	27.51	5.12	33.79	-	-	P	V
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Remark	1. No other spurious found.												
	2. All results are PASS against limit line.												
	3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.												



Note symbol

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



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

Test Engineer :	JC Liang and Leo Li	Temperature :	18~20°C
		Relative Humidity :	66~70%

Remark: For Radiated Spurious Emission Test Items, Ant. 1 means Aux. Antenna and Ant. 2 means Main Antenna.

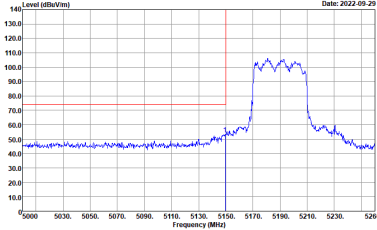
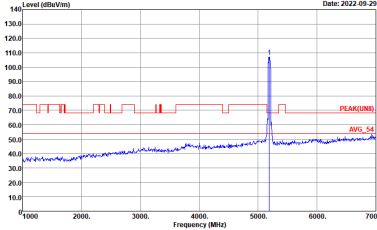
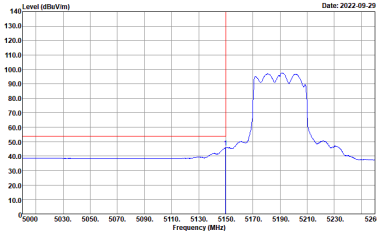
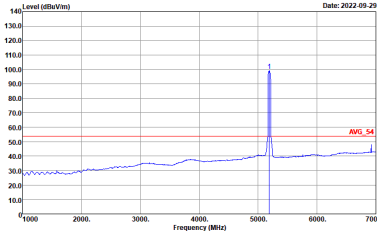
Note symbol

-L	Low channel location
-R	High channel location

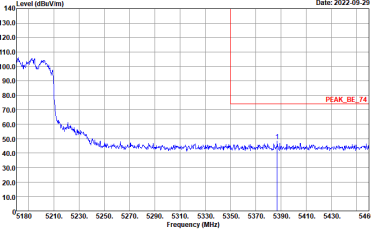
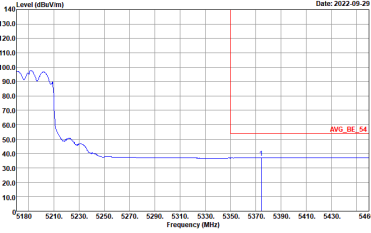


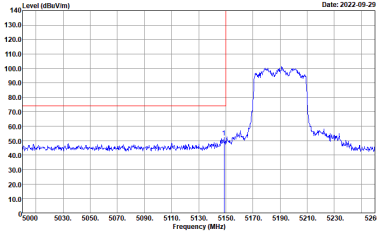
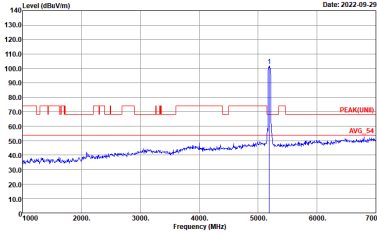
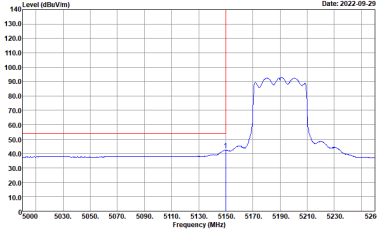
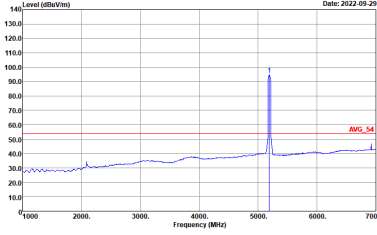
<Sample 1>

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

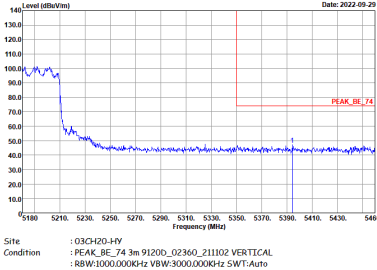
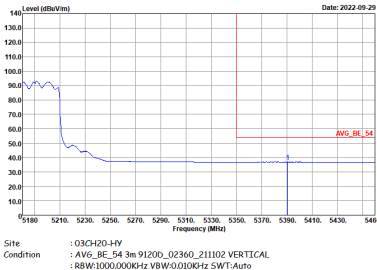
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE_74 3m 91200_02360_211102 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(FUND) 3m 91200_02360_211102 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH20-HY Condition : AVG_BE_54 3m 91200_02360_211102 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_211102 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_B1_74 3m 91200_02360_211102 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH20-HY Condition : AVG_B1_54 3m 91200_02360_211102 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

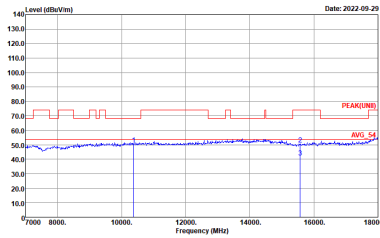
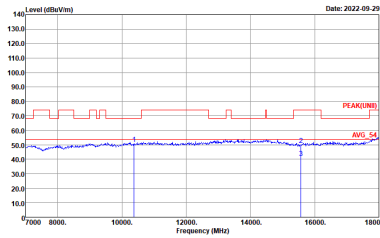
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE_74 3m 91200_02360_211102 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_211102 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH20-HY Condition : AVG_BE_54 3m 91200_02360_211102 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_211102 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE_74 3m 91200_02360_211102 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH20-HY Condition : AVG_BE_54 3m 91200_02360_211102 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



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

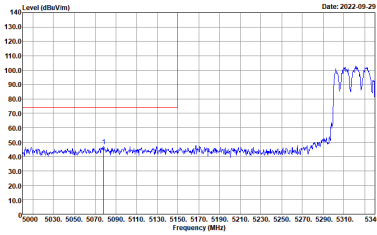
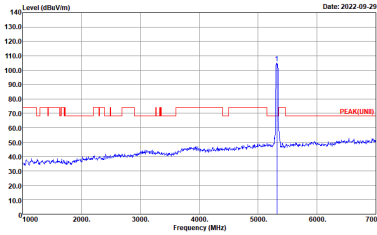
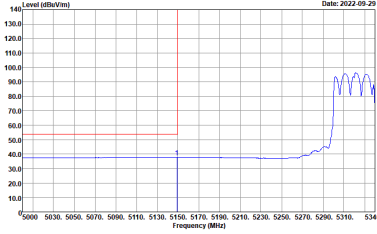
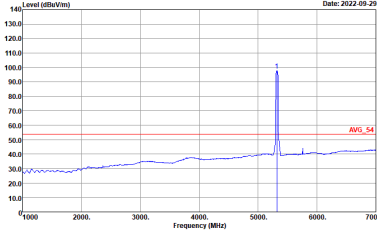
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_211102 HORIZONTAL	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_211102 VERTICAL



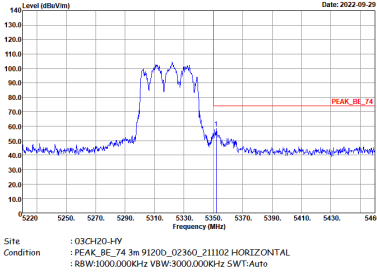
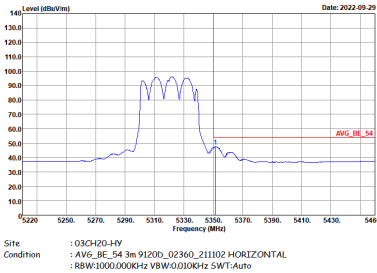
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	Site : 03CH20-HY Condition : AV6_54 3m 9120D_02360_211102 HORIZONTAL	Site : 03CH20-HY Condition : AV6_54 3m 9120D_02360_211102 VERTICAL
	Site : 03CH20-HY Condition : AV6_54 3m 9120D_02360_211102 HORIZONTAL	Site : 03CH20-HY Condition : AV6_54 3m 9120D_02360_211102 VERTICAL



Band 2 - 5250~5350MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH62 5310 - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE_74 3m 91200_02360_211102 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(LINE) 3m 91200_02360_211102 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH20-HY Condition : AVG_BE_54 3m 91200_02360_211102 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_211102 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH62 5310 - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE_74 3m 91200_02360_211102 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH20-HY Condition : AVG_BE_54 3m 91200_02360_211102 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



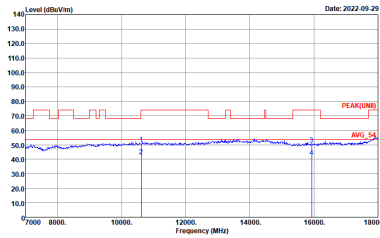
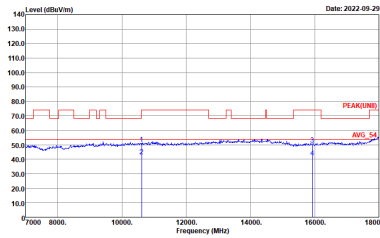
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH62 5310 - L	
1+2	Vertical	Fundamental
Peak	Site : 03CH20-HY Condition : PEAK_BE_74 3m 91200_02360_211102 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_211102 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	Site : 03CH20-HY Condition : AVG_BE_54 3m 91200_02360_211102 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_211102 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



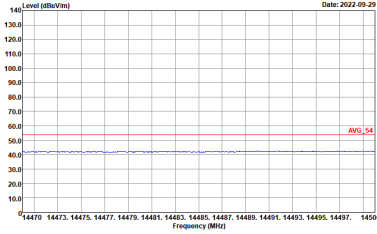
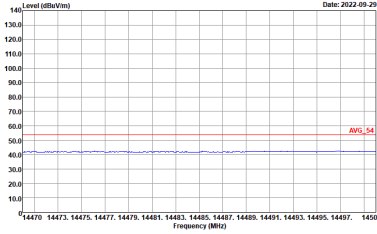
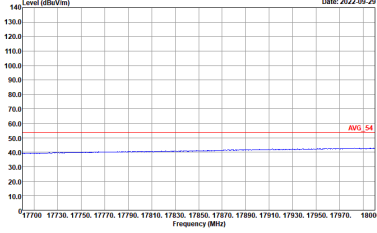
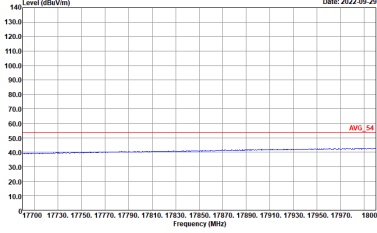
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH62 5310 - R	
1+2	Vertical	Fundamental
Peak	Site : 03CH20-HY Condition : PEAK_BE_74 3m 91200_02360_211102 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	Site : 03CH20-HY Condition : AVG_BE_54 3m 91200_02360_211102 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



Band 2 - 5250~5350MHz
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

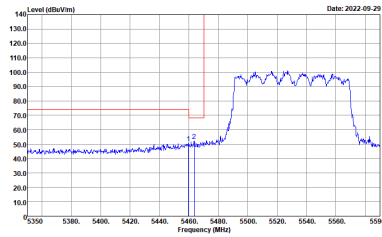
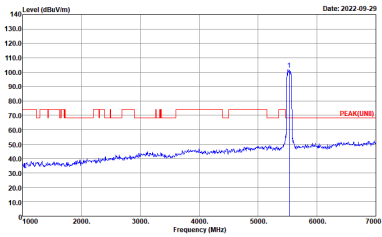
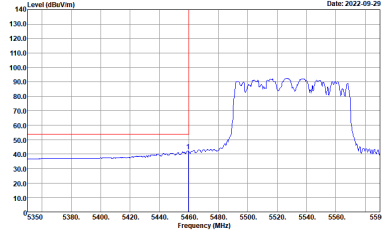
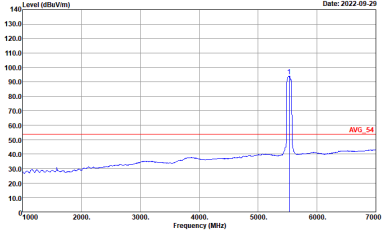
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH62 5310	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_211102 HORIZONTAL	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_211102 VERTICAL



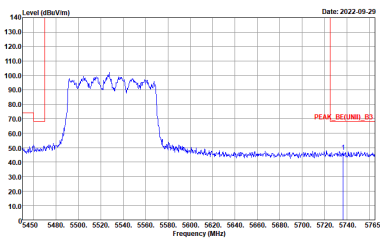
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH62 5310	
1+2	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_211102 HORIZONTAL	 Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_211102 VERTICAL
	 Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_211102 HORIZONTAL	 Site : 03CH20-HY Condition : AV6_54 3m 91200_02360_211102 VERTICAL



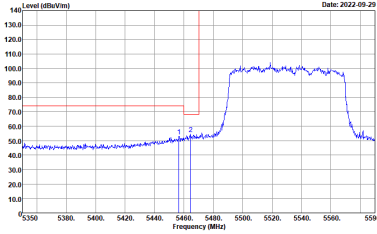
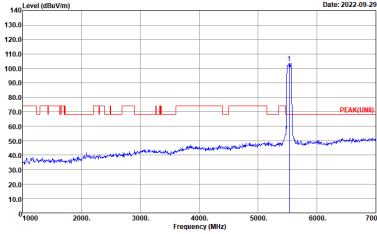
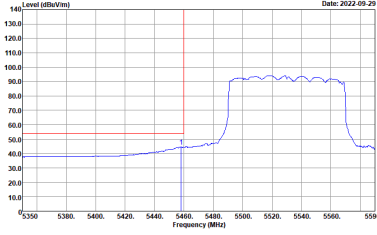
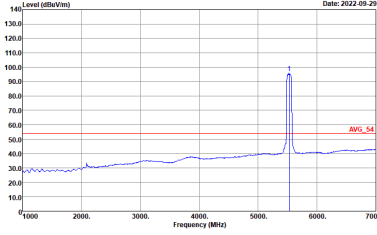
Band 3 - 5470~5725MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH106 5530MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(UNIT)_B3 3m 91200_02360_211102 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNIT)_3m 91200_02360_211102 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto
Avg.	 Site : 03CH20-HY Condition : AVG_BE(UNIT)_B3 3m 91200_02360_211102 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_211102 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH106 5530MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site: 10CH20-11V Condition: : PEAK_RE([UNIT]), B3 3m 91200_02360_211102 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Date: 2022-09-29	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH106 5530MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH20-HY Condition : PEAK_BE(UNIT)_B3 3m 91200_02360_211102 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH20-HY Condition : PEAK(UNIT) 3m 91200_02360_211102 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH20-HY Condition : AVG_BE(UNIT)_B3 3m 91200_02360_211102 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH20-HY Condition : AVG_54 3m 91200_02360_211102 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto