FCC RADIO TEST REPORT

FCC ID	:	**UZ7PS30JP**
Equipment	:	**Personal Shopper**
Brand Name	:	**ZEBRA**
Model Name	:	**PS30JP**
Applicant	:	**Zebra Technologies Corporation** **1 Zebra Plaza, Holtsville, NY 11742**
Manufacturer	:	**Zebra Technologies Corporation** **1 Zebra Plaza, Holtsville, NY 11742**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Dec. 22, 2023 and testing was performed from Dec. 25, 2023 to Jan. 31, 2024. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory
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

Table of Contents

History of this test report

Report No.	Version	Description	Issue Date
FR3D0512E	01	Initial issue of report	Feb. 08, 2024
FR3D0512E	02	Revise Product Specification of Equipment Under Test and Antenna Directional Gain This report is an updated version, replacing the report issued on Feb. 08, 2024.	Feb. 20, 2024

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	1.29 dB under the limit at 5358.00 MHz
3.5	15.207	AC Conducted Emission	Pass	6.55 dB under the limit at 0.56 MHz
3.6	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

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

Disclaimer:

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

Reviewed by: Keven Cheng
Report Producer: Michelle Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Personal Shopper
Brand Name	ZEBRA
Model Name	PS30JP
FCC ID	UZ7PS30JP
EUT supports Radios application	NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
HW Version	EV2
SW Version	13-13-11.00-TG-U00-PRD-NEM-04
FW Version	FUSION_QA_6_1.1.0.004_T
MFD	13DEC23
EUT Stage	Identical Prototype

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

Specification of Accessories				
Battery 1	**Brand Name**	Zebra	**Part Number**	BT-000355-0020
Battery 2	**Brand Name**	Zebra	**Part Number**	BT-000355-5020

Supported Unit Used in Test Configuration and System				
1-slot cradle	**Brand Name**	Zebra	**Part Number**	CRD-MC18-1SLOT-01
Adapter	**Brand Name**	Zebra	**Part Number**	PWR-BGA12V108W0WW
Programming USB cable	**Brand Name**	Zebra	**Part Number**	CBL-PS30-USBCHG-01
Soft Holster	**Brand Name**	Zebra	**Part Number**	SG-PS20-SFTHLT-01

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz
Maximum Output Power	**<5180 MHz ~ 5240 MHz>** **MIMO <Ant. 0+1>** 802.11a: 22.21 dBm / 0.1663 W 802.11n HT20: 22.22 dBm / 0.1667 W 802.11n HT40: 23.44 dBm / 0.2208 W 802.11ac VHT20: 22.32 dBm / 0.1706 W 802.11ac VHT40: 23.54 dBm / 0.2259 W 802.11ac VHT80: 22.55 dBm / 0.1799 W 802.11ac VHT160: 20.26 dBm / 0.1062 W 802.11ax HE20: 22.42 dBm / 0.1746 W 802.11ax HE40: 23.64 dBm / 0.2312 W 802.11ax HE80: 22.65 dBm / 0.1841 W 802.11ax HE160: 20.36 dBm / 0.1086 W **<5260 MHz ~ 5320 MHz>** **MIMO <Ant. 0+1>** 802.11a: 21.76 dBm / 0.1500 W 802.11n HT20: 21.96 dBm / 0.1570 W 802.11n HT40: 23.54 dBm / 0.2259 W 802.11ac VHT20: 22.06 dBm / 0.1607 W 802.11ac VHT40: 23.64 dBm / 0.2312 W 802.11ac VHT80: 23.20 dBm / 0.2089 W 802.11ax HE20: 22.16 dBm / 0.1644 W 802.11ax HE40: 23.74 dBm / 0.2366 W 802.11ax HE80: 23.30 dBm / 0.2138 W 802.11ax HE160: 20.36 dBm / 0.1086 W **<5500 MHz ~ 5720 MHz>** **MIMO <Ant. 0+1>** 802.11a: 21.51 dBm / 0.1416 W 802.11n HT20: 21.77 dBm / 0.1503 W 802.11n HT40: 23.66 dBm / 0.2323 W 802.11ac VHT20: 21.87 dBm / 0.1538 W 802.11ac VHT40: 23.76 dBm / 0.2377 W 802.11ac VHT80: 23.82 dBm / 0.2410 W 802.11ac VHT160: 22.26 dBm / 0.1683 W 802.11ax HE20: 22.01 dBm / 0.1589 W 802.11ax HE40: 23.96 dBm / 0.2489 W 802.11ax HE80: 23.92 dBm / 0.2466 W 802.11ax HE160: 22.76 dBm / 0.1888 W

Product Specification is subject to this standard	
99% Occupied Bandwidth	**MIMO <Ant. 0>** 802.11a: 16.33 MHz 802.11ac VHT20: 17.53 MHz 802.11ac VHT40: 36.06 MHz 802.11ac VHT80: 75.04 MHz 802.11ac VHT160: 154.17 MHz 802.11ax HE20: 18.83 MHz 802.11ax HE40: 38.06 MHz 802.11ax HE80: 76.84 MHz 802.11ax HE160: 155.84 MHz **MIMO <Ant. 1>** 802.11a: 16.33 MHz 802.11ac VHT20: 17.53 MHz 802.11ac VHT40: 36.06 MHz 802.11ac VHT80: 75.04 MHz 802.11ac VHT160: 154.17 MHz 802.11ax HE20: 18.88 MHz 802.11ax HE40: 37.96 MHz 802.11ax HE80: 76.84 MHz 802.11ax HE160: 155.60 MHz
Antenna Type	**<5180 MHz ~ 5240 MHz>** **<Ant. 0>:** IFA Antenna **<Ant. 1>:** IFA Antenna **<5260 MHz ~ 5320 MHz>** **<Ant. 0>:** IFA Antenna **<Ant. 1>:** IFA Antenna **<5500 MHz ~ 5720 MHz>** **<Ant. 0>:** IFA Antenna **<Ant. 1>:** IFA Antenna
Antenna Gain	**<5180 MHz ~ 5240 MHz>** **<Ant. 0>:** 3.30 dBi **<Ant. 1>:** 1.30 dBi **<5260 MHz ~ 5320 MHz>** **<Ant. 0>:** 3.80 dBi **<Ant. 1>:** 2.70 dBi **<5500 MHz ~ 5720 MHz>** **<Ant. 0>:** 3.50 dBi **<Ant. 1>:** 3.40 dBi

<table>
<tr><th colspan="2">Product Specification is subject to this standard</th></tr>
<tr><td>Type of Modulation</td><td>802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)
802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)
802.11ax : OFDMA (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)</td></tr>
<tr><td>Antenna Function Description</td><td>
<table>
<tr><td></td><td>Ant. 0</td><td>Ant. 1</td></tr>
<tr><td>802.11 a/n/ac/ax MIMO</td><td>V</td><td>V</td></tr>
<tr><td>802.11ax TXBF</td><td>V</td><td>V</td></tr>
</table>
</td></tr>
</table>

Remark:

1. MIMO Ant. 0+1 Directional Gain is a calculated result from MIMO Ant. 0 and MIMO Ant. 1. The formula used in calculation is documented in section 1.2.1.
2. Power of MIMO Ant. 0 + Ant. 1 is a calculated result from sum of the power MIMO Ant. 0 and MIMO Ant. 1.
3. 802.11ax Support Tx Beamforming mode, and the manufacturer declares that Tx Beamforming power/EIRP is less than CDD mode 3dbm, so CDD mode cover Tx Beamforming mode.
4. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2.1 Antenna Directional Gain

<For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)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 kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

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

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

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

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

	Ant 0 (dBi)	Ant 1 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	3.30	1.30	3.30	5.37	0.00	0.00
Band II	3.80	2.70	3.80	6.28	0.00	0.28
Band III	3.50	3.40	3.50	6.46	0.00	0.46

Calculation example:

If a device has two antenna, G_{ANT0}= 3.30dBi; G_{ANT1}=1.30dBi

Directional gain of power measurement = max(3.30, 1.30) + 0 = 3.30 dBi

Directional gain of PSD derived from formula which is

10 x log { { [10^ (3.30 dBi / 20) + 10^ (1.30 dBi / 20)] ^ 2 } / 2 }

= 5.37 dBi

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

<For TXBF Modes>

The EUT supports beamforming modes , then

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

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

where

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

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

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

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

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 0	Ant 1	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band I	3.30	1.30	5.37	5.37	0.00	0.00
Band II	3.80	2.70	6.28	6.28	0.28	0.28
Band III	3.50	3.40	6.46	6.46	0.46	0.46

Calculation example:

Directional gain is derived from formula which is

10 x log { { [10^ (3.30 dBi / 20) + 10^ (1.30 dBi / 20)] ^ 2 } / 2 }

= 5.37 dBi

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

1.3 Modification of EUT

No modifications made to the EUT during the testing.

1.4 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY, CO07-HY, 03CH12-HY

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

FCC designation No.: TW3786

1.5 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

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

2.1 Carrier Frequency and Channel

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

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

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106#	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)
5150-5350 MHz	50@	5250
5470-5725 MHz	114@	5570

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

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

Note:

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

2.2 Test Mode

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

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance 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, 484-tone RU is covered by 40MHz channel and 996-tone RU is covered by 80MHz channel.

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

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

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

MIMO Mode

Modulation	Data Rate
802.11a	**6 Mbps**
802.11n HT20 (Covered by VHT20)	**MCS0**
802.11n HT40 (Covered by VHT40)	**MCS0**
802.11ac VHT20	**MCS0**
802.11ac VHT40	**MCS0**
802.11ac VHT80	**MCS0**
802.11ac VHT160	**MCS0**
802.11ax HE20	**MCS0**
802.11ax HE40	**MCS0**
802.11ax HE80	**MCS0**
802.11ax HE160	**MCS0**

Remark: The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + NFC Read + Scanner + Adapter + Battery 1 + Programming USB cable + 1-slot cradle + Fast Charge Mode @1.5AMP
Remark: For Radiated Test Cases, the tests were performed with Battery 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
		802.11ac VHT20	802.11ac VHT80
L	Low	36	-
M	Middle	-	58
H	High	-	-
Straddle		-	-

BW160	5470-5725MHz
	802.11ac VHT160
Ch. #	114

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

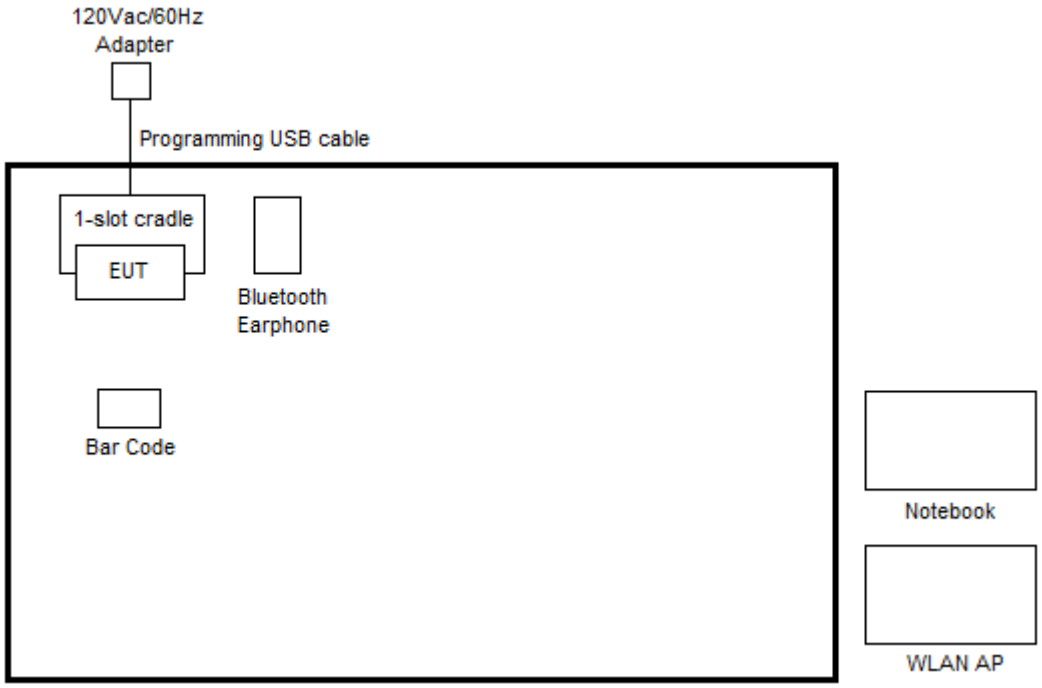
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ax HE80	802.11ax HE80	802.11ax HE80
L	Low	-	-	106
M	Middle	42	58	-
H	High	-	-	122
Straddle		-	-	138

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

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

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>

2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC52	MSQ-RTAC4A00	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Bar Code	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT Ver. 4.0.00206.0” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :
The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
Offset = RF cable loss + attenuator factor.
Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).
= 4.2 + 10 = 14.2 (dB)

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

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

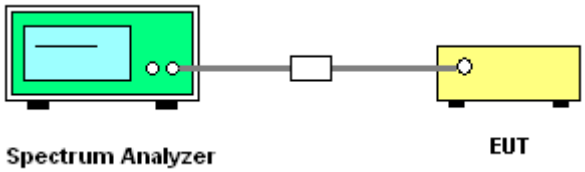
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

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

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

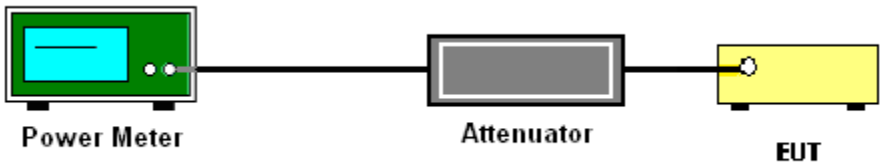
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

Section F) Maximum power spectral density.

 # Method SA-2 #

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

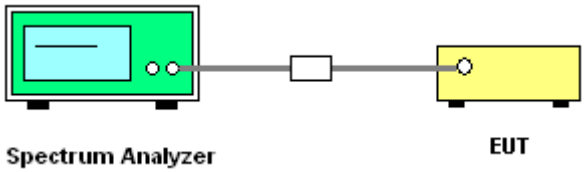
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x),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

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

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

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

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

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

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

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

(2) Unwanted spurious emissions falls in restricted bands shall comply with the general field strength limits as below table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

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

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

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

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

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

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

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

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

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

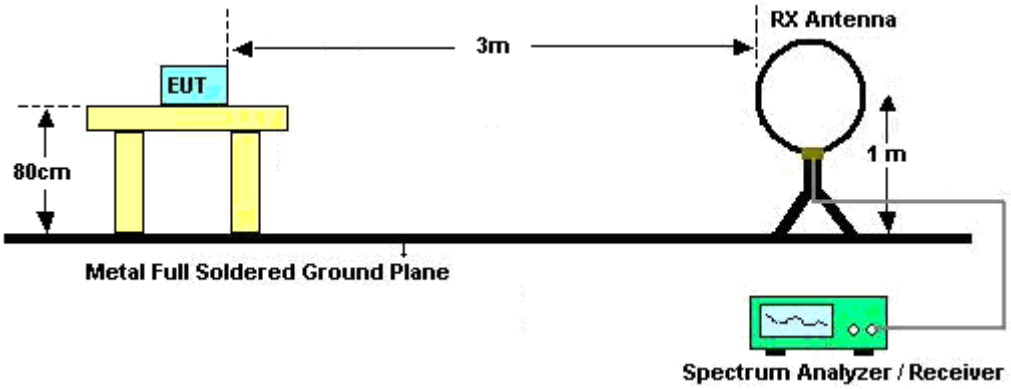
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

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

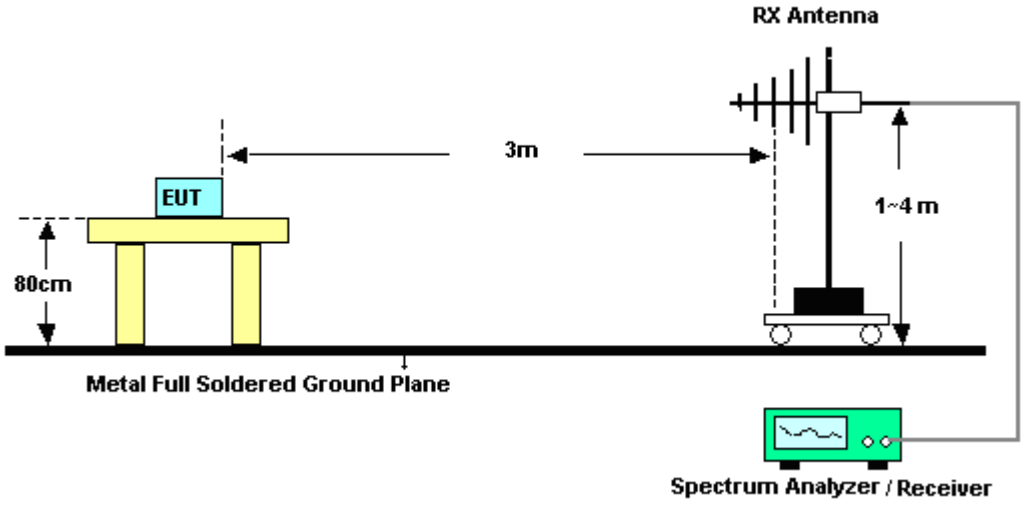
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-".
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".

3.4.4 Test Setup

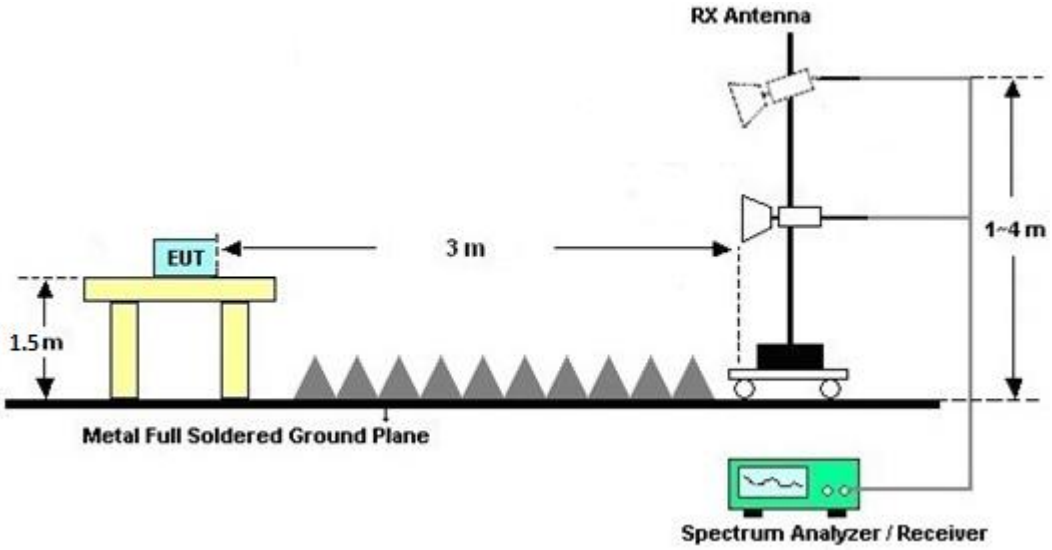
For radiated emissions below 30MHz



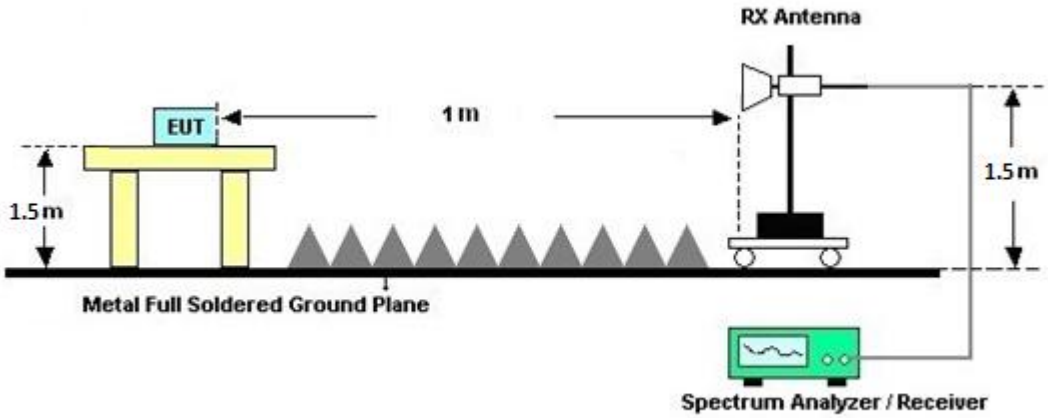
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

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

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

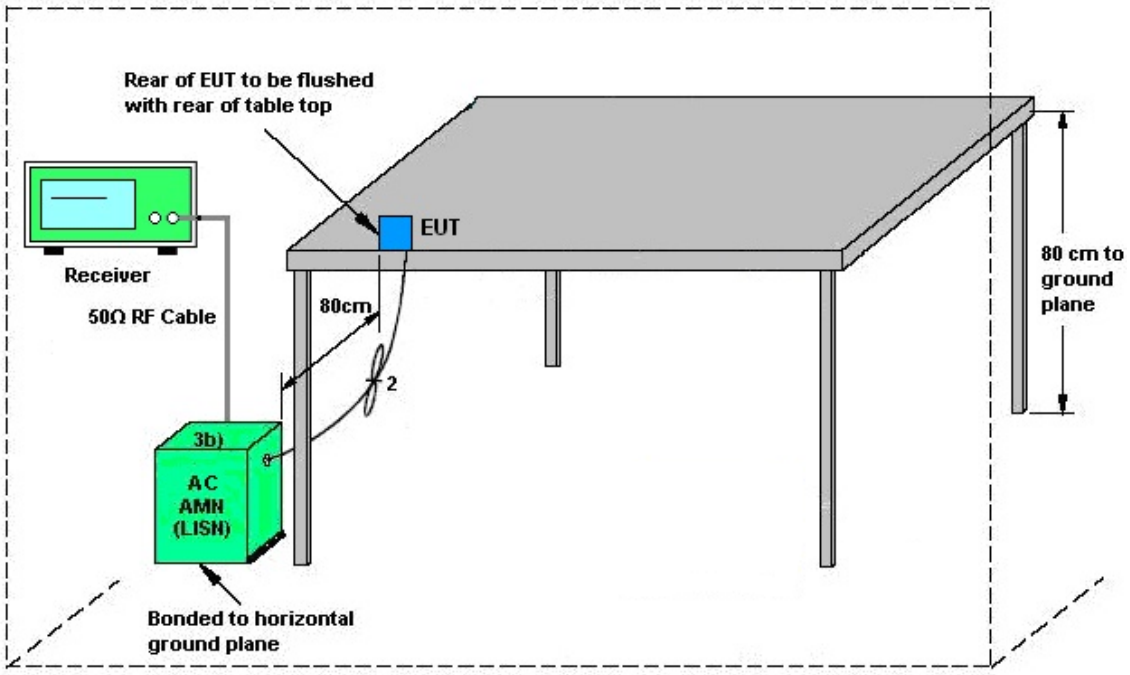
3.5.2 Measuring Instruments

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



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

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 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
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	Jan. 19, 2024~ Jan. 29, 2024	Sep. 11, 2024	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	37059 & 01	30MHz~1GHz	Nov. 03, 2023	Jan. 19, 2024~ Jan. 29, 2024	Nov. 02, 2024	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Jul. 31, 2023	Jan. 19, 2024~ Jan. 29, 2024	Jul. 30, 2024	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz-40GHz	Nov. 24, 2023	Jan. 19, 2024~ Jan. 29, 2024	Nov. 23, 2024	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 21, 2023	Jan. 19, 2024~ Jan. 29, 2024	Mar. 20, 2024	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A02375	1GHz~26.5GHz	May 23, 2023	Jan. 19, 2024~ Jan. 29, 2024	May 22, 2024	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-56-01-A70	EC1900249	1GHz-18GHz	Dec. 20, 2023	Jan. 19, 2024~ Jan. 29, 2024	Dec. 19, 2024	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 07, 2023	Jan. 19, 2024~ Jan. 29, 2024	Dec. 06, 2024	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 10, 2024	Jan. 19, 2024~ Jan. 29, 2024	Jan. 09, 2025	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12SS	SN2	1.2GHz Low Pass Filter	Mar. 14, 2023	Jan. 19, 2024~ Jan. 29, 2024	Mar. 13, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN2	3GHz High Pass Filter	Mar. 14, 2023	Jan. 19, 2024~ Jan. 29, 2024	Mar. 13, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN2	6.75GHz High Pass Filter	Mar. 14, 2023	Jan. 19, 2024~ Jan. 29, 2024	Mar. 13, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 18, 2023	Jan. 19, 2024~ Jan. 29, 2024	Dec. 17, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 18, 2023	Jan. 19, 2024~ Jan. 29, 2024	Dec. 17, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Dec. 18, 2023	Jan. 19, 2024~ Jan. 29, 2024	Dec. 17, 2024	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP210090	N/A	Sep. 08, 2023	Jan. 19, 2024~ Jan. 29, 2024	Sep. 07, 2024	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Jan. 19, 2024~ Jan. 29, 2024	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jan. 19, 2024~ Jan. 29, 2024	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jan. 19, 2024~ Jan. 29, 2024	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Jan. 19, 2024~ Jan. 29, 2024	N/A	Radiation (03CH12-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Jan. 08, 2024	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jan. 08, 2024	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 20, 2023	Jan. 08, 2024	Oct. 19, 2024	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 15, 2023	Jan. 08, 2024	Mar. 14, 2024	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 05, 2023	Jan. 08, 2024	Mar. 04, 2024	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 13, 2023	Jan. 08, 2024	Mar. 12, 2024	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Jan. 08, 2024	Sep. 19, 2024	Conduction (CO07-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Dec. 25, 2023~ Jan. 31, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015SNO36 (NO:35_144)	10MHz~6GHz	Aug. 23, 2023	Dec. 25, 2023~ Jan. 31, 2024	Aug. 22, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101564	10Hz ~ 40GHz	Sep. 12, 2023	Dec. 25, 2023~ Jan. 31, 2024	Sep. 11, 2024	Conducted (TH05-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.44 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.10 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.30 dB

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.80 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.30 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Henry Ke/Junyu Jhou	Temperature:	21~25	°C
Test Date:	2023/12/25~2024/01/31	Relative Humidity:	51~54	%

Report Number : FR3D0512E

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 MIMO														
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
					Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	36	5180	16.28	16.33	19.04	19.36	-		22.12			
11a	6Mbps	2	44	5220	16.28	16.28	19.12	19.12	-		22.12			
11a	6Mbps	2	48	5240	16.28	16.33	19.20	19.28	-		22.12			
VHT20	MCS0	2	36	5180	17.53	17.53	20.48	20.56	-		22.44			
VHT20	MCS0	2	44	5220	17.48	17.48	20.80	20.88	-		22.43			
VHT20	MCS0	2	48	5240	17.48	17.53	20.56	20.56	-		22.43		-	
VHT40	MCS0	2	38	5190	36.06	36.06	40.80	40.64	-		23.01			
VHT40	MCS0	2	46	5230	35.96	36.06	40.80	40.80	-		23.01			
VHT80	MCS0	2	42	5210	74.93	74.93	82.24	81.60	-		23.01			
VHT160	MCS0	2	50	5250	154.17	154.17	166.08	164.64	-		23.01			

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO													
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	36	5180	18.80	19.10	21.96	24.00		3.30			Pass
11a	6Mbps	2	44	5220	19.00	19.40	22.21	24.00		3.30			Pass
11a	6Mbps	2	48	5240	18.60	19.40	22.03	24.00		3.30			Pass
HT20	MCS0	2	36	5180	18.90	19.20	22.06	24.00		3.30			Pass
HT20	MCS0	2	44	5220	18.90	19.50	22.22	24.00		3.30			Pass
HT20	MCS0	2	48	5240	18.30	19.30	21.84	24.00		3.30			Pass
HT40	MCS0	2	38	5190	19.80	20.80	23.34	24.00		3.30			Pass
HT40	MCS0	2	46	5230	19.90	20.90	23.44	24.00		3.30		-	Pass
VHT20	MCS0	2	36	5180	19.00	19.30	22.16	24.00		3.30			Pass
VHT20	MCS0	2	44	5220	19.00	19.60	22.32	24.00		3.30			Pass
VHT20	MCS0	2	48	5240	18.40	19.40	21.94	24.00		3.30			Pass
VHT40	MCS0	2	38	5190	19.90	20.90	23.44	24.00		3.30			Pass
VHT40	MCS0	2	46	5230	20.00	21.00	23.54	24.00		3.30			Pass
VHT80	MCS0	2	42	5210	18.90	20.10	22.55	24.00		3.30			Pass
VHT160	MCS0	2	50	5250	17.20	17.30	20.26	24.00		3.30			Pass

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 MIMO															
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	36	5180	0.03	0.03			10.63	11.00		5.37			Pass
11a	6Mbps	2	44	5220	0.03	0.03			10.82	11.00		5.37			Pass
11a	6Mbps	2	48	5240	0.03	0.03			10.99	11.00		5.37			Pass
VHT20	MCS0	2	36	5180	0.01	0.01			10.89	11.00		5.37			Pass
VHT20	MCS0	2	44	5220	0.01	0.01			10.80	11.00		5.37			Pass
VHT20	MCS0	2	48	5240	0.01	0.01	-		10.74	11.00		5.37		-	Pass
VHT40	MCS0	2	38	5190	0.02	0.02			9.85	11.00		5.37			Pass
VHT40	MCS0	2	46	5230	0.02	0.02			10.40	11.00		5.37			Pass
VHT80	MCS0	2	42	5210	0.02	0.02			6.68	11.00		5.37			Pass
VHT160	MCS0	2	50	5250	0.03	0.03			1.26	11.00		5.37			Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A MIMO															
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
					Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	2	52	5260	16.33	16.33	19.28	19.20	23.13		29.13		23.83		
11a	6Mbps	2	60	5300	16.28	16.28	19.52	19.52	23.12		29.12		23.90		
11a	6Mbps	2	64	5320	16.28	16.33	19.44	19.44	23.12		29.12		23.89		
VHT20	MCS0	2	52	5260	17.53	17.53	20.80	20.56	23.44		29.44		23.98		
VHT20	MCS0	2	60	5300	17.48	17.53	20.40	20.32	23.43		29.43		23.98		-
VHT20	MCS0	2	64	5320	17.48	17.48	20.80	20.40	23.43		29.43		23.98		
VHT40	MCS0	2	54	5270	35.96	36.06	40.64	40.80	23.98		30.00		23.98		
VHT40	MCS0	2	62	5310	35.96	35.96	40.80	40.80	23.98		30.00		23.98		
VHT80	MCS0	2	58	5290	75.04	74.93	82.56	81.28	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO													
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	52	5260	18.30	18.80	21.57	23.83		3.80		30	Pass
11a	6Mbps	2	60	5300	18.70	18.80	21.76	23.90		3.80		30	Pass
11a	6Mbps	2	64	5320	18.60	18.20	21.41	23.89		3.80		30	Pass
HT20	MCS0	2	52	5260	18.60	18.90	21.76	23.98		3.80		30	Pass
HT20	MCS0	2	60	5300	18.90	19.00	21.96	23.98		3.80		30	Pass
HT20	MCS0	2	64	5320	18.60	18.40	21.51	23.98		3.80		30	Pass
HT40	MCS0	2	54	5270	20.00	21.00	23.54	23.98		3.80		30	Pass
HT40	MCS0	2	62	5310	19.50	19.20	22.36	23.98		3.80		30	Pass
VHT20	MCS0	2	52	5260	18.70	19.00	21.86	23.98		3.80		30	Pass
VHT20	MCS0	2	60	5300	19.00	19.10	22.06	23.98		3.80		30	Pass
VHT20	MCS0	2	64	5320	18.70	18.50	21.61	23.98		3.80		30	Pass
VHT40	MCS0	2	54	5270	20.10	21.10	23.64	23.98		3.80		30	Pass
VHT40	MCS0	2	62	5310	19.60	19.30	22.46	23.98		3.80		30	Pass
VHT80	MCS0	2	58	5290	19.60	20.70	23.20	23.98		3.80		30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A MIMO															
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	52	5260	0.03	0.03			10.61	10.72		6.28			Pass
11a	6Mbps	2	60	5300	0.03	0.03			10.68	10.72		6.28			Pass
11a	6Mbps	2	64	5320	0.03	0.03			10.39	10.72		6.28			Pass
VHT20	MCS0	2	52	5260	0.01	0.01			10.69	10.72		6.28			Pass
VHT20	MCS0	2	60	5300	0.01	0.01	-		10.71	10.72		6.28		-	Pass
VHT20	MCS0	2	64	5320	0.01	0.01			10.35	10.72		6.28			Pass
VHT40	MCS0	2	54	5270	0.02	0.02			10.36	10.72		6.28			Pass
VHT40	MCS0	2	62	5310	0.02	0.02			9.13	10.72		6.28			Pass
VHT80	MCS0	2	58	5290	0.02	0.02			7.33	10.72		6.28			Pass

Report Number : FR3D0512E

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C MIMO																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		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 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1
11a	6Mbps	2	100	5500	16.33	16.33	19.36	19.28	23.13		29.13		23.85		----	----
11a	6Mbps	2	116	5580	16.28	16.33	19.20	19.28	23.12		29.12		23.83		----	----
11a	6Mbps	2	140	5700	16.28	16.33	19.20	19.28	23.12		29.12		23.83		----	----
VHT20	MCS0	2	100	5500	17.48	17.53	20.48	20.32	23.43		29.43		23.98		----	----
VHT20	MCS0	2	116	5580	17.48	17.53	20.72	20.64	23.43		29.43		23.98		----	----
VHT20	MCS0	2	140	5700	17.53	17.53	20.64	20.96	23.44		29.44		23.98		----	----
VHT40	MCS0	2	102	5510	35.96	36.06	40.80	40.64	23.98		30.00		23.98		----	----
VHT40	MCS0	2	110	5550	35.96	35.96	40.80	40.48	23.98		30.00		23.98		----	----
VHT40	MCS0	2	134	5670	36.06	36.06	40.80	40.64	23.98		30.00		23.98		----	----
VHT80	MCS0	2	106	5530	74.93	74.93	81.92	81.92	23.98		30.00		23.98		----	----
VHT80	MCS0	2	122	5610	74.93	75.04	81.92	81.60	23.98		30.00		23.98		----	----
VHT160	MCS0	2	114	5570	153.93	153.69	165.60	164.64	23.98		30.00		23.98		----	----

U-NII-2C straddle channel MIMO																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		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 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1
11a	6Mbps	2	144	5720	13.19	13.19	14.76	14.60	22.20		28.20		22.64		2.6	2.6
VHT20	MCS0	2	144	5720	13.79	13.79	15.40	15.32	22.40		28.40		22.85		2.15	2.55
VHT40	MCS0	2	142	5710	32.98	33.08	35.32	35.48	23.98		30.00		23.98		2.64	2.64
VHT80	MCS0	2	138	5690	72.52	72.64	75.96	75.64	23.98		30.00		23.98		----	----
6dB Bandwidth Limit ≧ 500kHz															Pass	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO												
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	100	5500	18.00	17.90	20.96	23.85		3.50		30	Pass
11a	6Mbps	2	116	5580	18.00	18.30	21.16	23.83		3.50		30	Pass
11a	6Mbps	2	140	5700	18.40	18.00	21.21	23.83		3.50		30	Pass
HT20	MCS0	2	100	5500	18.70	18.70	21.71	23.98		3.50		30	Pass
HT20	MCS0	2	116	5580	17.90	18.30	21.11	23.98		3.50		30	Pass
HT20	MCS0	2	140	5700	19.00	18.50	21.77	23.98		3.50		30	Pass
HT40	MCS0	2	102	5510	20.50	20.40	23.46	23.98		3.50		30	Pass
HT40	MCS0	2	110	5550	20.50	20.20	23.36	23.98		3.50		30	Pass
HT40	MCS0	2	134	5670	20.70	20.60	23.66	23.98		3.50		30	Pass
VHT20	MCS0	2	100	5500	18.80	18.80	21.81	23.98		3.50		30	Pass
VHT20	MCS0	2	116	5580	18.00	18.40	21.21	23.98		3.50		30	Pass
VHT20	MCS0	2	140	5700	19.10	18.60	21.87	23.98		3.50		30	Pass
VHT40	MCS0	2	102	5510	20.60	20.50	23.56	23.98		3.50		30	Pass
VHT40	MCS0	2	110	5550	20.60	20.30	23.46	23.98		3.50		30	Pass
VHT40	MCS0	2	134	5670	20.80	20.70	23.76	23.98		3.50		30	Pass
VHT80	MCS0	2	106	5530	20.50	21.10	23.82	23.98		3.50		30	Pass
VHT80	MCS0	2	122	5610	20.70	20.90	23.81	23.98		3.50		30	Pass
VHT160	MCS0	2	114	5570	19.10	19.40	22.26	23.98		3.50		30	Pass

FCC U-NII-2C straddle channel MIMO												
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	144	5720	18.70	18.30	21.51	22.64		3.50		30	Pass
HT20	MCS0	2	144	5720	19.00	18.40	21.72	23.98		3.50		30	Pass
HT40	MCS0	2	142	5710	20.70	20.20	23.47	23.98		3.50		30	Pass
VHT20	MCS0	2	144	5720	19.10	18.50	21.82	22.85		3.50		30	Pass
VHT40	MCS0	2	142	5710	20.80	20.30	23.57	23.98		3.50		30	Pass
VHT80	MCS0	2	138	5690	20.50	21.10	23.82	23.98		3.50		30	Pass

Report Number : FR3D0512E

TEST RESULTS DATA
Power Spectral Density

U-NII-2C MIMO															
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	100	5500	0.03	0.03			9.96	10.54		6.46			Pass
11a	6Mbps	2	116	5580	0.03	0.03			10.14	10.54		6.46			Pass
11a	6Mbps	2	140	5700	0.03	0.03			10.12	10.54		6.46			Pass
VHT20	MCS0	2	100	5500	0.01	0.01			10.53	10.54		6.46			Pass
VHT20	MCS0	2	116	5580	0.01	0.01			10.08	10.54		6.46			Pass
VHT20	MCS0	2	140	5700	0.01	0.01			10.51	10.54		6.46			Pass
VHT40	MCS0	2	102	5510	0.02	0.02	-		10.42	10.54		6.46		-	Pass
VHT40	MCS0	2	110	5550	0.02	0.02			10.30	10.54		6.46			Pass
VHT40	MCS0	2	134	5670	0.02	0.02			10.32	10.54		6.46			Pass
VHT80	MCS0	2	106	5530	0.02	0.02			7.99	10.54		6.46			Pass
VHT80	MCS0	2	122	5610	0.02	0.02			8.07	10.54		6.46			Pass
VHT160	MCS0	2	114	5570	0.03	0.03			3.37	10.54		6.46			Pass

U-NII-2C straddle channel MIMO															
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
11a	6Mbps	2	144	5720	0.03	0.03			10.36	10.54		6.46			Pass
VHT20	MCS0	2	144	5720	0.01	0.01	-		10.44	10.54		6.46		-	Pass
VHT40	MCS0	2	142	5710	0.02	0.02			10.21	10.54		6.46			Pass
VHT80	MCS0	2	138	5690	0.02	0.02			7.87	10.54		6.46			Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-1 MIMO														
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)			Note
						Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	2	36	5180	Full	18.83	18.83	21.20	21.12	-		22.75			
HE20	MCS0	2	44	5220	Full	18.83	18.83	20.96	20.96	-		22.75			
HE20	MCS0	2	48	5240	Full	18.83	18.83	20.96	20.96	-		22.75			
HE40	MCS0	2	38	5190	Full	37.66	37.86	41.76	41.60	-		23.01		-	-
HE40	MCS0	2	46	5230	Full	37.66	37.76	41.12	41.92	-		23.01			
HE80	MCS0	2	42	5210	Full	76.84	76.84	82.24	81.92	-		23.01			
HE160	MCS0	2	50	5250	Full	155.60	155.60	166.08	165.12	-		23.01			

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO														
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail
						Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	2	36	5180	Full	19.10	19.40	22.26	24.00		3.30			Pass
HE20	MCS0	2	36	5180	26/0	10.50	11.50	14.04	24.00		3.30			Pass
HE20	MCS0	2	36	5180	52/37	13.50	14.30	16.93	24.00		3.30			Pass
HE20	MCS0	2	36	5180	106/53	17.40	17.30	20.36	24.00		3.30			Pass
HE20	MCS0	2	44	5220	Full	19.10	19.70	22.42	24.00		3.30			Pass
HE20	MCS0	2	44	5220	26/4	11.30	12.60	15.01	24.00		3.30			Pass
HE20	MCS0	2	44	5220	52/38	14.00	14.20	17.11	24.00		3.30			Pass
HE20	MCS0	2	44	5220	106/53	17.30	17.50	20.41	24.00		3.30			Pass
HE20	MCS0	2	48	5240	Full	18.50	19.50	22.04	24.00		3.30			Pass
HE20	MCS0	2	48	5240	26/8	9.90	11.20	13.61	24.00		3.30			Pass
HE20	MCS0	2	48	5240	52/40	12.80	14.10	16.51	24.00		3.30		-	Pass
HE20	MCS0	2	48	5240	106/54	16.70	17.30	20.02	24.00		3.30			Pass
HE40	MCS0	2	38	5190	Full	20.00	21.00	23.54	24.00		3.30			Pass
HE40	MCS0	2	38	5190	242/61	19.20	19.50	22.36	24.00		3.30			Pass
HE40	MCS0	2	46	5230	Full	20.10	21.10	23.64	24.00		3.30			Pass
HE40	MCS0	2	46	5230	242/62	19.40	20.20	22.83	24.00		3.30			Pass
HE80	MCS0	2	42	5210	Full	19.00	20.20	22.65	24.00		3.30			Pass
HE80	MCS0	2	42	5210	484/65	18.70	19.30	22.02	24.00		3.30			Pass
HE160	MCS0	2	50	5250	Full	17.30	17.40	20.36	24.00		3.30			Pass
HE160	MCS0	2	50	5250	996/67	16.20	16.70	19.47	24.00		3.30			Pass

TEST RESULTS DATA
Power Spectral Density

FCC U-NII-1 MIMO																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	2	36	5180	Full	0.01	0.01			10.71	11.00		5.37			Pass
HE20	MCS0	2	36	5180	26/0	0.02	0.02			10.59	11.00		5.37			Pass
HE20	MCS0	2	36	5180	52/37	0.02	0.02			10.45	11.00		5.37			Pass
HE20	MCS0	2	36	5180	106/53	0.02	0.02			10.67	11.00		5.37			Pass
HE20	MCS0	2	44	5220	Full	0.01	0.01			10.95	11.00		5.37			Pass
HE20	MCS0	2	44	5220	26/4	0.02	0.02			10.47	11.00		5.37			Pass
HE20	MCS0	2	44	5220	52/38	0.02	0.02			10.75	11.00		5.37			Pass
HE20	MCS0	2	44	5220	106/53	0.02	0.02			10.76	11.00		5.37			Pass
HE20	MCS0	2	48	5240	Full	0.01	0.01			10.61	11.00		5.37			Pass
HE20	MCS0	2	48	5240	26/8	0.02	0.02			10.15	11.00		5.37			Pass
HE20	MCS0	2	48	5240	52/40	0.02	0.02	-		10.19	11.00		5.37		-	Pass
HE20	MCS0	2	48	5240	106/54	0.02	0.02			10.37	11.00		5.37			Pass
HE40	MCS0	2	38	5190	Full	0.01	0.01			9.31	11.00		5.37			Pass
HE40	MCS0	2	38	5190	242/61	0.03	0.03			9.29	11.00		5.37			Pass
HE40	MCS0	2	46	5230	Full	0.01	0.01			9.65	11.00		5.37			Pass
HE40	MCS0	2	46	5230	242/62	0.03	0.03			9.60	11.00		5.37			Pass
HE80	MCS0	2	42	5210	Full	0.03	0.03			6.12	11.00		5.37			Pass
HE80	MCS0	2	42	5210	484/65	0.05	0.05			6.05	11.00		5.37			Pass
HE160	MCS0	2	50	5250	Full	0.03	0.03			1.13	11.00		5.37			Pass
HE160	MCS0	2	50	5250	996/67	0.05	0.05			0.58	11.00		5.37			Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2A MIMO																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		IC 99% Bandwidth Power Limit (dBm)		IC 99% Bandwidth EIRP Limit (dBm)		FCC 26dB Bandwidth Power Limit (dBm)		Note
						Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	
HE20	MCS0	2	52	5260	Full	18.83	18.83	20.88	21.04	23.75		29.75		23.98		
HE20	MCS0	2	60	5300	Full	18.83	18.83	21.28	21.04	23.75		29.75		23.98		
HE20	MCS0	2	64	5320	Full	18.83	18.83	20.88	21.04	23.75		29.75		23.98		
HE40	MCS0	2	54	5270	Full	37.76	37.96	41.44	41.44	23.98		30.00		23.98		
HE40	MCS0	2	62	5310	Full	37.76	37.66	41.44	41.44	23.98		30.00		23.98		
HE80	MCS0	2	58	5290	Full	76.84	76.84	82.56	82.88	23.98		30.00		23.98		

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO														
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	2	52	5260	Full	18.80	19.10	21.96	23.98		3.80		30	Pass
HE20	MCS0	2	52	5260	26/0	10.10	11.10	13.64	23.98		3.80		30	Pass
HE20	MCS0	2	52	5260	52/37	13.10	14.00	16.58	23.98		3.80		30	Pass
HE20	MCS0	2	52	5260	106/53	16.60	17.00	19.81	23.98		3.80		30	Pass
HE20	MCS0	2	60	5300	Full	19.10	19.20	22.16	23.98		3.80		30	Pass
HE20	MCS0	2	60	5300	26/4	10.90	12.60	14.84	23.98		3.80		30	Pass
HE20	MCS0	2	60	5300	52/38	13.60	14.10	16.87	23.98		3.80		30	Pass
HE20	MCS0	2	60	5300	106/53	17.20	16.90	20.06	23.98		3.80		30	Pass
HE20	MCS0	2	64	5320	Full	18.80	18.60	21.71	23.98		3.80		30	Pass
HE20	MCS0	2	64	5320	26/8	9.70	10.90	13.35	23.98		3.80		30	Pass
HE20	MCS0	2	64	5320	52/40	13.70	13.80	16.76	23.98		3.80		30	Pass
HE20	MCS0	2	64	5320	106/54	16.90	16.50	19.71	23.98		3.80		30	Pass
HE40	MCS0	2	54	5270	Full	20.20	21.20	23.74	23.98		3.80		30	Pass
HE40	MCS0	2	54	5270	242/61	19.50	20.10	22.82	23.98		3.80		30	Pass
HE40	MCS0	2	62	5310	Full	19.70	19.40	22.56	23.98		3.80		30	Pass
HE40	MCS0	2	62	5310	242/62	18.90	18.60	21.76	23.98		3.80		30	Pass
HE80	MCS0	2	58	5290	Full	19.70	20.80	23.30	23.98		3.80		30	Pass
HE80	MCS0	2	58	5290	484/66	18.00	18.20	21.11	23.98		3.80		30	Pass
HE160	MCS0	2	50	5250	996/S67	15.40	15.50	18.46	23.98		3.80		30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2A MIMO																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	2	52	5260	Full	0.01	0.01			10.45	10.72		6.28			Pass
HE20	MCS0	2	52	5260	26/0	0.02	0.02			10.19	10.72		6.28			Pass
HE20	MCS0	2	52	5260	52/37	0.02	0.02			10.08	10.72		6.28			Pass
HE20	MCS0	2	52	5260	106/53	0.02	0.02			10.21	10.72		6.28			Pass
HE20	MCS0	2	60	5300	Full	0.01	0.01			10.69	10.72		6.28			Pass
HE20	MCS0	2	60	5300	26/4	0.02	0.02			10.32	10.72		6.28			Pass
HE20	MCS0	2	60	5300	52/38	0.02	0.02			10.44	10.72		6.28			Pass
HE20	MCS0	2	60	5300	106/53	0.02	0.02			10.36	10.72		6.28			Pass
HE20	MCS0	2	64	5320	Full	0.01	0.01			10.31	10.72		6.28			Pass
HE20	MCS0	2	64	5320	26/8	0.02	0.02	-		9.93	10.72		6.28		-	Pass
HE20	MCS0	2	64	5320	52/40	0.02	0.02			10.30	10.72		6.28			Pass
HE20	MCS0	2	64	5320	106/54	0.02	0.02			10.10	10.72		6.28			Pass
HE40	MCS0	2	54	5270	Full	0.01	0.01			9.81	10.72		6.28			Pass
HE40	MCS0	2	54	5270	242/61	0.03	0.03			9.54	10.72		6.28			Pass
HE40	MCS0	2	62	5310	Full	0.01	0.01			8.57	10.72		6.28			Pass
HE40	MCS0	2	62	5310	242/62	0.03	0.03			8.46	10.72		6.28			Pass
HE80	MCS0	2	58	5290	Full	0.03	0.03			6.80	10.72		6.28			Pass
HE80	MCS0	2	58	5290	484/66	0.05	0.05			5.37	10.72		6.28			Pass
HE160	MCS0	2	50	5250	996/S67	0.05	0.05			-0.21	10.72		6.28			Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C MIMO																	
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		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 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1
HE20	MCS0	2	100	5500	Full	18.83	18.83	21.28	21.04	23.75		29.75		23.98		----	----
HE20	MCS0	2	116	5580	Full	18.83	18.83	21.20	20.96	23.75		29.75		23.98		----	----
HE20	MCS0	2	140	5700	Full	18.83	18.88	20.96	20.88	23.75		29.75		23.98		----	----
HE40	MCS0	2	102	5510	Full	38.06	37.76	48.00	41.28	23.98		30.00		23.98		----	----
HE40	MCS0	2	110	5550	Full	38.06	37.86	42.88	41.44	23.98		30.00		23.98		----	----
HE40	MCS0	2	134	5670	Full	37.76	37.76	41.44	41.60	23.98		30.00		23.98		----	----
HE80	MCS0	2	106	5530	Full	76.84	76.84	82.24	82.24	23.98		30.00		23.98		----	----
HE80	MCS0	2	122	5610	Full	76.84	76.72	82.24	81.92	23.98		30.00		23.98		----	----
HE160	MCS0	2	114	5570	Full	155.84	155.36	165.12	165.12	23.98		30.00		23.98		----	----

U-NII-2C straddle channel MIMO																	
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		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 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1
HE20	MCS0	2	144	5720	Full	14.44	14.44	15.48	15.64	22.60		28.60		22.90		2.8	4.25
HE40	MCS0	2	142	5710	Full	33.98	33.88	35.64	35.64	23.98		30.00		23.98		2.91	2.64
HE80	MCS0	2	138	5690	Full	73.36	73.48	75.96	75.96	23.98		30.00		23.98		2.76	2.76
6dB Bandwidth Limit ≧ 500kHz																Pass	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO														
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	2	100	5500	Full	18.90	18.90	21.91	23.98		3.50		30	Pass
HE20	MCS0	2	100	5500	26/0	9.50	12.10	14.00	23.98		3.50		30	Pass
HE20	MCS0	2	100	5500	52/37	12.70	14.80	16.89	23.98		3.50		30	Pass
HE20	MCS0	2	100	5500	106/53	16.80	16.70	19.76	23.98		3.50		30	Pass
HE20	MCS0	2	116	5580	Full	18.80	19.20	22.01	23.98		3.50		30	Pass
HE20	MCS0	2	116	5580	26/4	10.00	13.00	14.76	23.98		3.50		30	Pass
HE20	MCS0	2	116	5580	52/38	12.40	15.10	16.97	23.98		3.50		30	Pass
HE20	MCS0	2	116	5580	106/53	16.70	17.40	20.07	23.98		3.50		30	Pass
HE20	MCS0	2	140	5700	Full	19.20	18.70	21.97	23.98		3.50		30	Pass
HE20	MCS0	2	140	5700	26/8	9.70	11.30	13.58	23.98		3.50		30	Pass
HE20	MCS0	2	140	5700	52/40	13.00	14.40	16.77	23.98		3.50		30	Pass
HE20	MCS0	2	140	5700	106/54	17.10	17.00	20.06	23.98		3.50		30	Pass
HE40	MCS0	2	102	5510	Full	21.00	20.90	23.96	23.98		3.50		30	Pass
HE40	MCS0	2	102	5510	242/61	18.40	18.50	21.46	23.98		3.50		30	Pass
HE40	MCS0	2	110	5550	Full	21.00	20.80	23.91	23.98		3.50		30	Pass
HE40	MCS0	2	110	5550	242/61	20.10	20.20	23.16	23.98		3.50		30	Pass
HE40	MCS0	2	134	5670	Full	20.90	20.80	23.86	23.98		3.50		30	Pass
HE40	MCS0	2	134	5670	242/62	18.20	18.20	21.21	23.98		3.50		30	Pass
HE80	MCS0	2	106	5530	Full	20.60	21.20	23.92	23.98		3.50		30	Pass
HE80	MCS0	2	106	5530	484/65	17.90	17.90	20.91	23.98		3.50		30	Pass
HE80	MCS0	2	122	5610	Full	20.80	21.00	23.91	23.98		3.50		30	Pass
HE80	MCS0	2	122	5610	484/66	18.20	18.20	21.21	23.98		3.50		30	Pass
HE160	MCS0	2	114	5570	Full	19.60	19.90	22.76	23.98		3.50		30	Pass
HE160	MCS0	2	114	5570	996/67	11.70	14.60	16.40	23.98		3.50		30	Pass
HE160	MCS0	2	114	5570	996/S67	11.20	13.60	15.57	23.98		3.50		30	Pass

FCC U-NII-2C straddle channel MIMO														
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	2	144	5720	Full	19.20	18.60	21.92	22.90		3.50		30	Pass
HE20	MCS0	2	144	5720	26/8	9.50	11.30	13.50	22.90		3.50		30	Pass
HE20	MCS0	2	144	5720	52/40	12.80	14.30	16.62	22.90		3.50		30	Pass
HE20	MCS0	2	144	5720	106/54	17.00	16.90	19.96	22.90		3.50		30	Pass
HE40	MCS0	2	142	5710	Full	20.90	20.40	23.67	23.98		3.50		30	Pass
HE80	MCS0	2	138	5690	Full	20.60	21.20	23.92	23.98		3.50		30	Pass
HE80	MCS0	2	138	5690	484/66	20.40	19.90	23.17	23.98		3.50		30	Pass

Report Number : FR3D0512E

TEST RESULTS DATA
Power Spectral Density

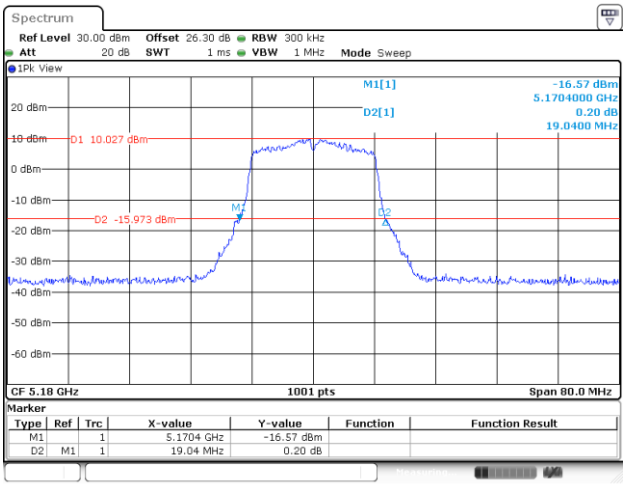
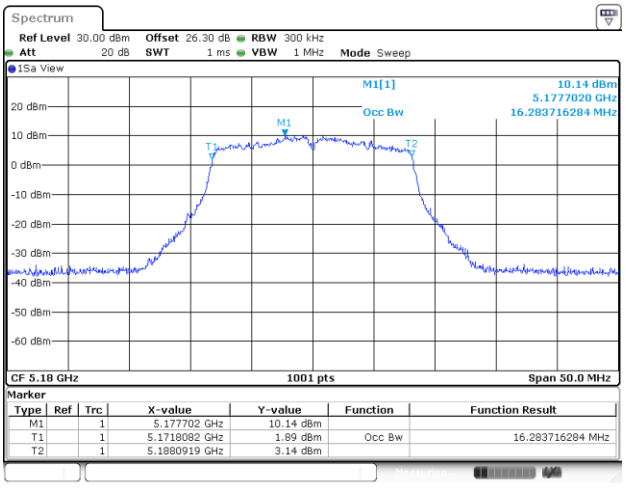
U-NII-2C MIMO															
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	2	100	5500	Full	0.01	0.01			10.37	10.54		6.46			Pass
HE20	MCS0	2	100	5500	26/0	0.02	0.02			10.31	10.54		6.46			Pass
HE20	MCS0	2	100	5500	52/37	0.02	0.02			10.23	10.54		6.46			Pass
HE20	MCS0	2	100	5500	106/53	0.02	0.02			9.87	10.54		6.46			Pass
HE20	MCS0	2	116	5580	Full	0.01	0.01			10.47	10.54		6.46			Pass
HE20	MCS0	2	116	5580	26/4	0.02	0.02			10.12	10.54		6.46			Pass
HE20	MCS0	2	116	5580	52/38	0.02	0.02			10.46	10.54		6.46			Pass
HE20	MCS0	2	116	5580	106/53	0.02	0.02			10.40	10.54		6.46			Pass
HE20	MCS0	2	140	5700	Full	0.01	0.01			10.39	10.54		6.46			Pass
HE20	MCS0	2	140	5700	26/8	0.02	0.02			10.15	10.54		6.46			Pass
HE20	MCS0	2	140	5700	52/40	0.02	0.02			10.27	10.54		6.46			Pass
HE20	MCS0	2	140	5700	106/54	0.02	0.02			10.34	10.54		6.46			Pass
HE40	MCS0	2	102	5510	Full	0.01	0.01	-		10.00	10.54		6.46		-	Pass
HE40	MCS0	2	102	5510	242/61	0.03	0.03			8.37	10.54		6.46			Pass
HE40	MCS0	2	110	5550	Full	0.01	0.01			9.85	10.54		6.46			Pass
HE40	MCS0	2	110	5550	242/61	0.03	0.03			9.84	10.54		6.46			Pass
HE40	MCS0	2	134	5670	Full	0.01	0.01			9.57	10.54		6.46			Pass
HE40	MCS0	2	134	5670	242/62	0.03	0.03			8.02	10.54		6.46			Pass
HE80	MCS0	2	106	5530	Full	0.03	0.03			7.49	10.54		6.46			Pass
HE80	MCS0	2	106	5530	484/65	0.05	0.05			5.10	10.54		6.46			Pass
HE80	MCS0	2	122	5610	Full	0.03	0.03			7.50	10.54		6.46			Pass
HE80	MCS0	2	122	5610	484/66	0.05	0.05			5.35	10.54		6.46			Pass
HE160	MCS0	2	114	5570	Full	0.03	0.03			3.61	10.54		6.46			Pass
HE160	MCS0	2	114	5570	996/67	0.05	0.05			-2.33	10.54		6.46			Pass
HE160	MCS0	2	114	5570	996/S67	0.05	0.05			-3.09	10.54		6.46			Pass

U-NII-2C straddle channel MIMO															
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1		
HE20	MCS0	2	144	5720	Full	0.01	0.01			10.31	10.54		6.46			Pass
HE20	MCS0	2	144	5720	26/8	0.02	0.02			10.10	10.54		6.46			Pass
HE20	MCS0	2	144	5720	52/40	0.02	0.02			10.11	10.54		6.46			Pass
HE20	MCS0	2	144	5720	106/54	0.02	0.02			10.25	10.54		6.46			Pass
HE40	MCS0	2	142	5710	Full	0.01	0.01	-		9.42	10.54		6.46		-	Pass
HE40	MCS0	2	142	5710	242/62	0.03	0.03			9.09	10.54		6.46			Pass
HE80	MCS0	2	138	5690	Full	0.03	0.03			7.37	10.54		6.46			Pass
HE80	MCS0	2	138	5690	484/66	0.05	0.05			7.13	10.54		6.46			Pass

Test Result of 26dB & 99% Occupied Bandwidth

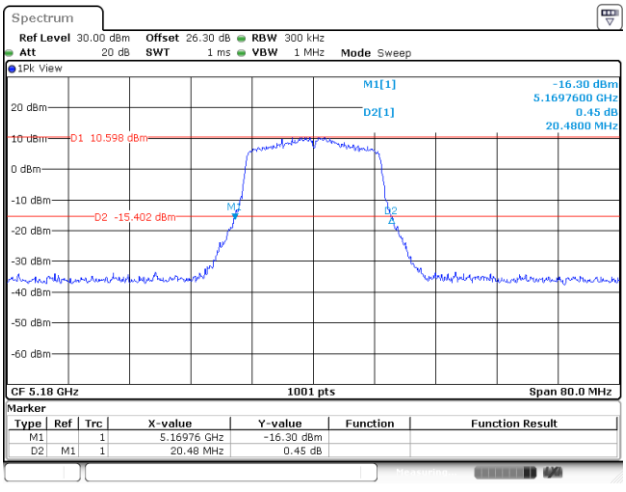
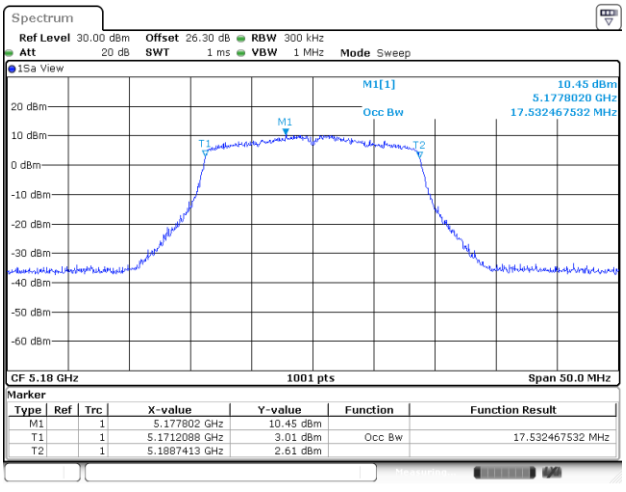
MIMO <Ant. 0+1>

<802.11a>

26dB Bandwidth	99% Occupied Bandwidth
	

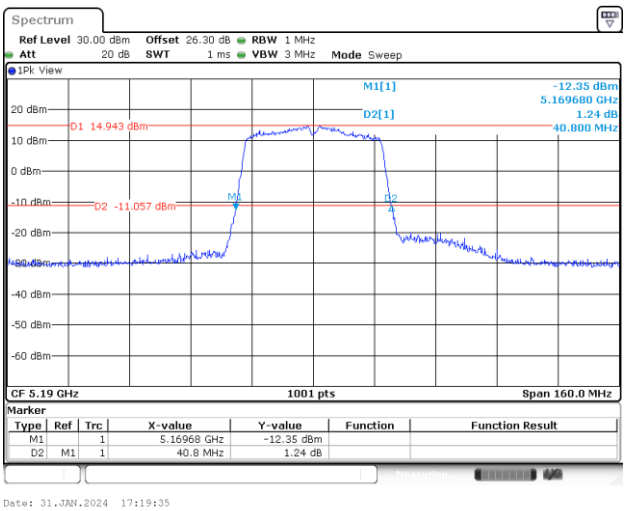
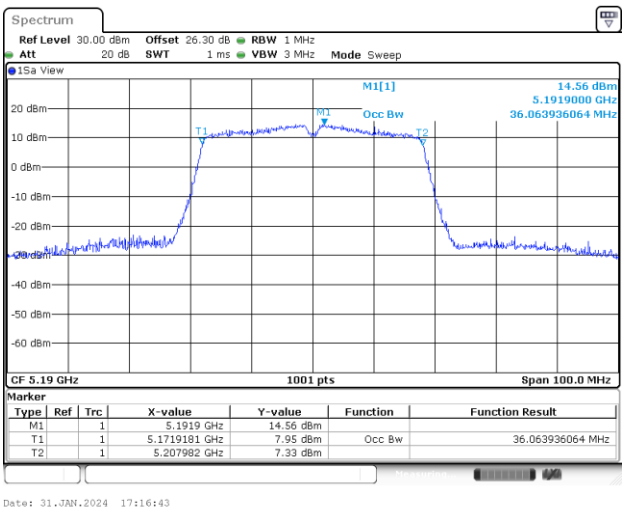
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ac VHT20>

26dB Bandwidth	99% Occupied Bandwidth
	

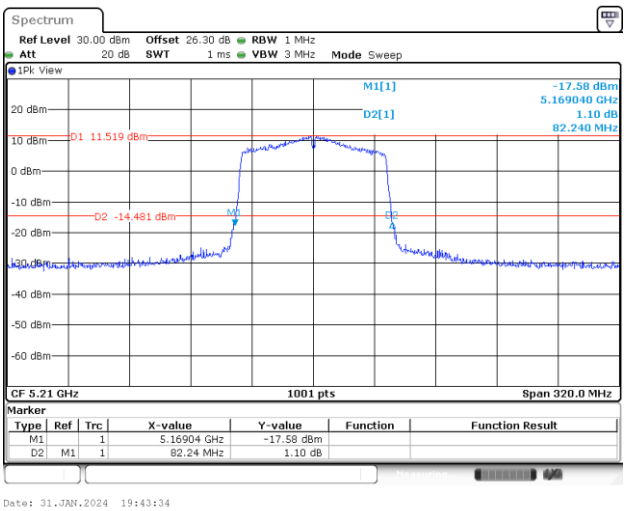
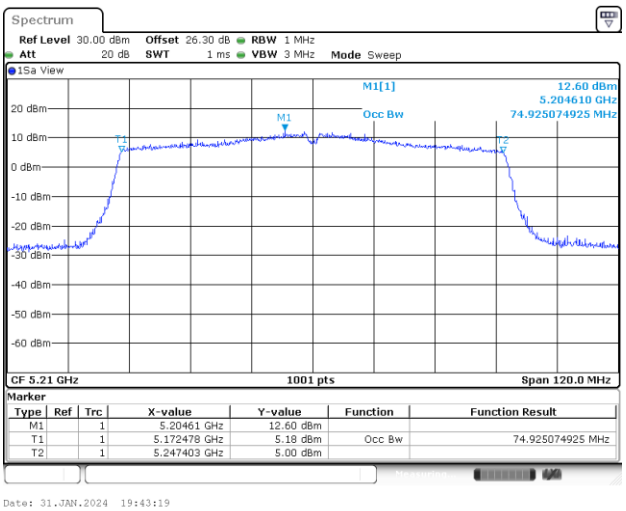
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ac VHT40>

26dB Bandwidth	99% Occupied Bandwidth
	

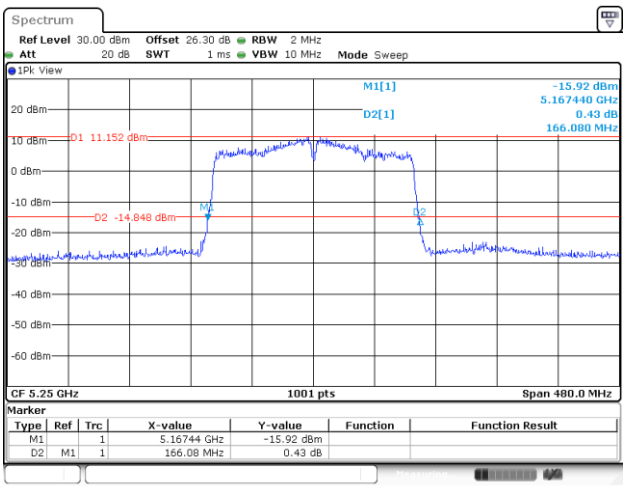
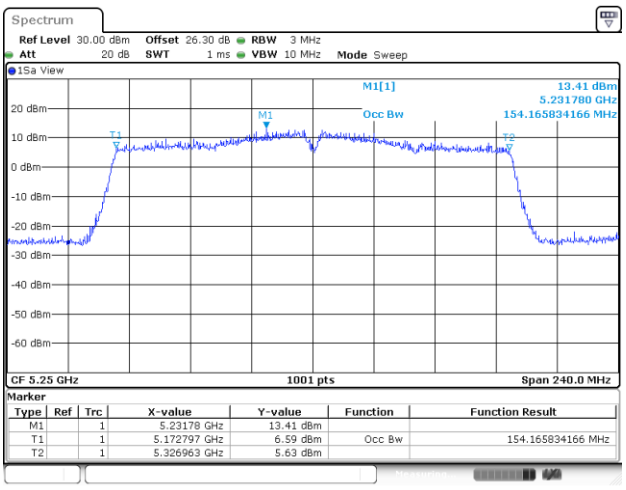
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ac VHT80>

26dB Bandwidth	99% Occupied Bandwidth
	

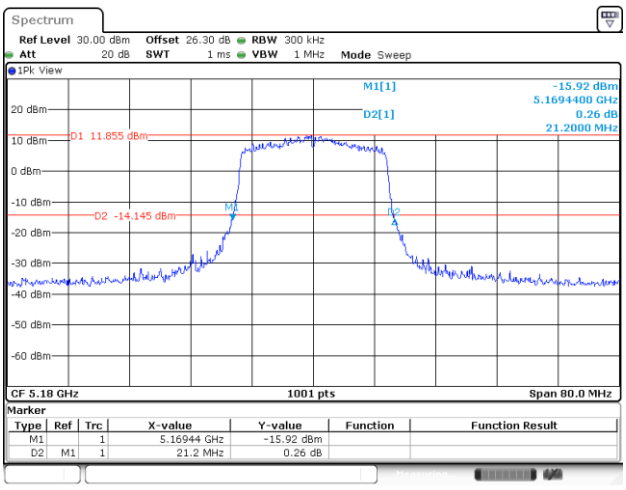
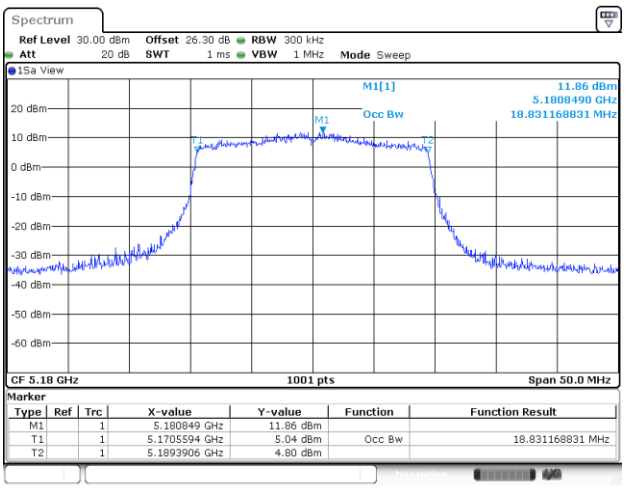
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ac VHT160>

26dB Bandwidth	99% Occupied Bandwidth
	

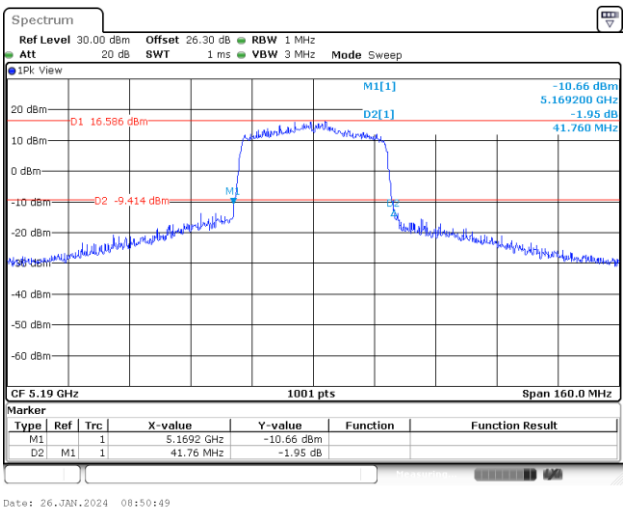
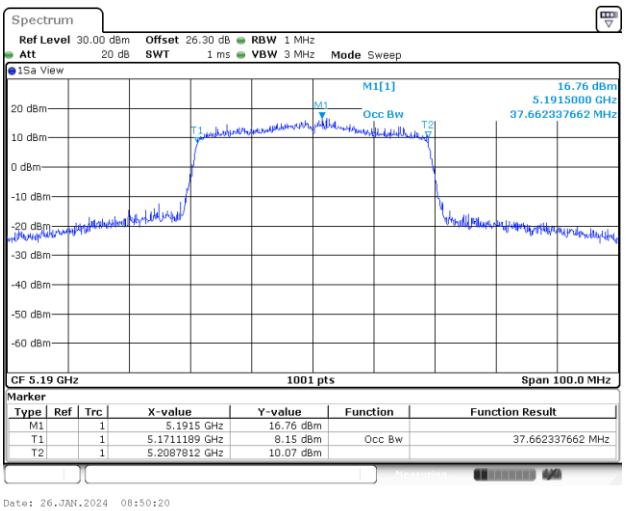
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE20>

26dB Bandwidth	99% Occupied Bandwidth
	

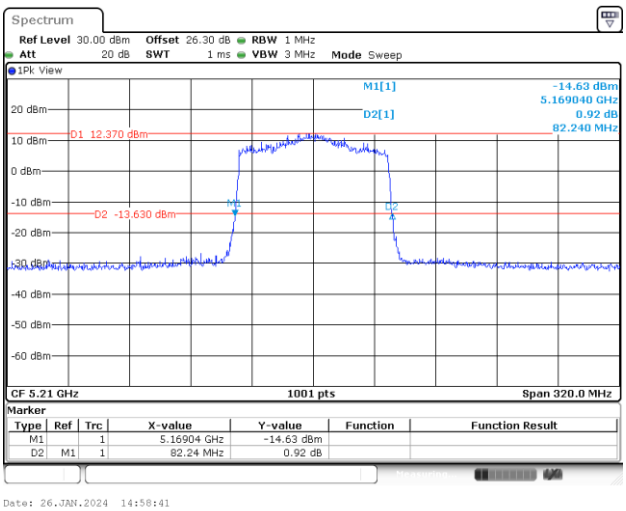
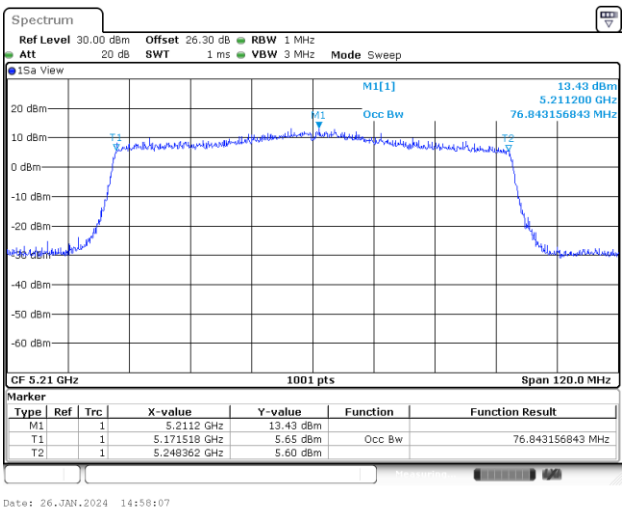
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE40>

26dB Bandwidth	99% Occupied Bandwidth
	

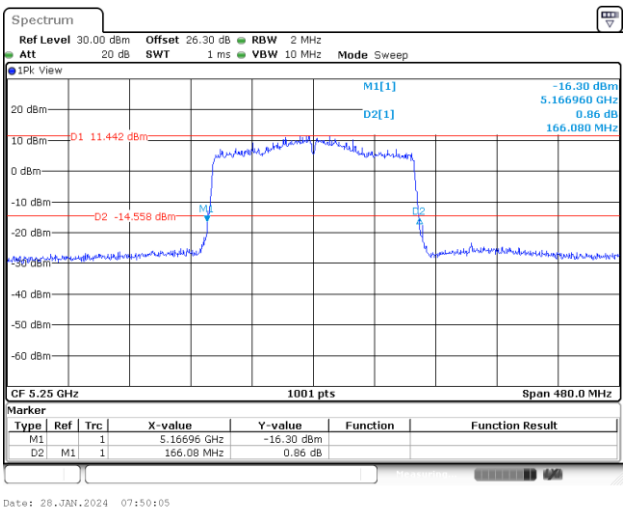
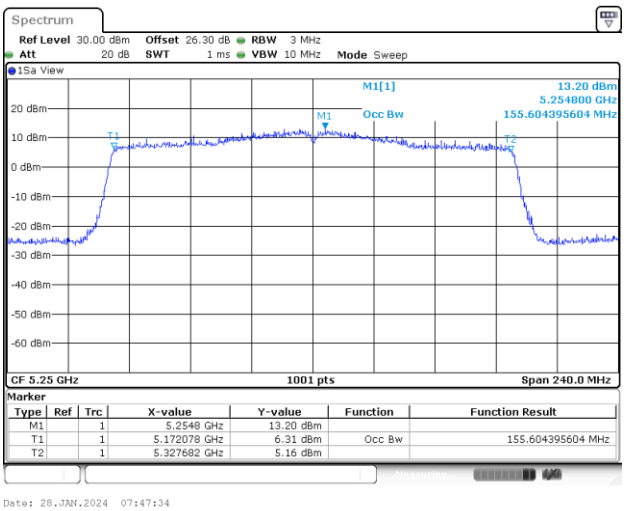
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE80>

26dB Bandwidth	99% Occupied Bandwidth
	

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

<802.11ax HE160>

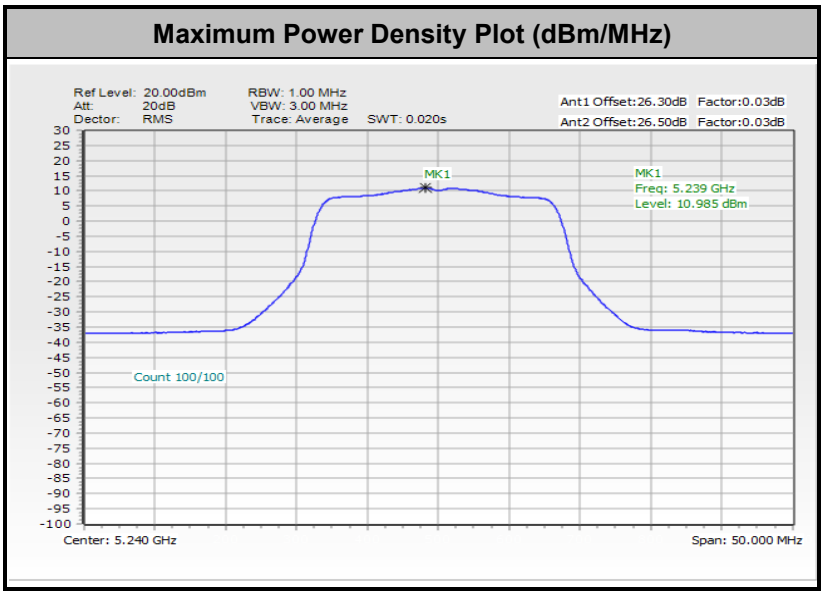
26dB Bandwidth	99% Occupied Bandwidth
	

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

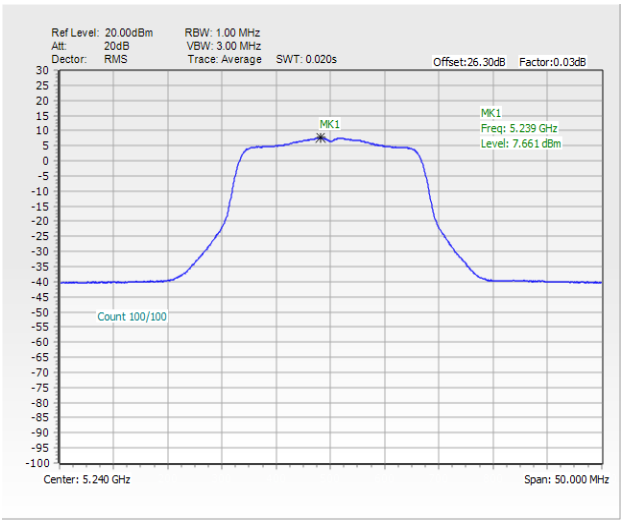
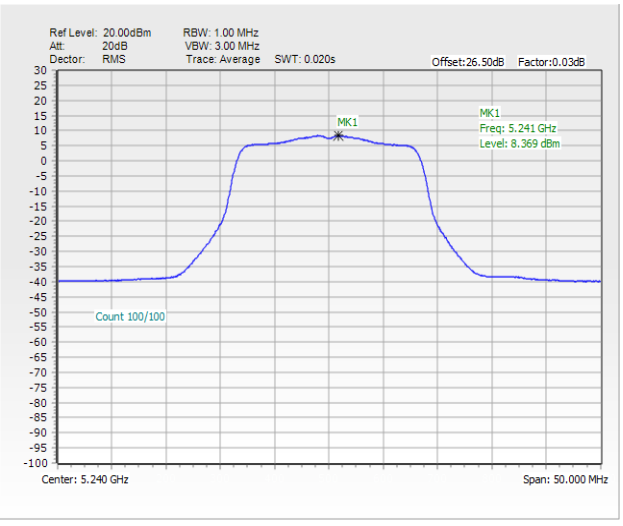
Test Result of Power Spectral Density

<802.11a>

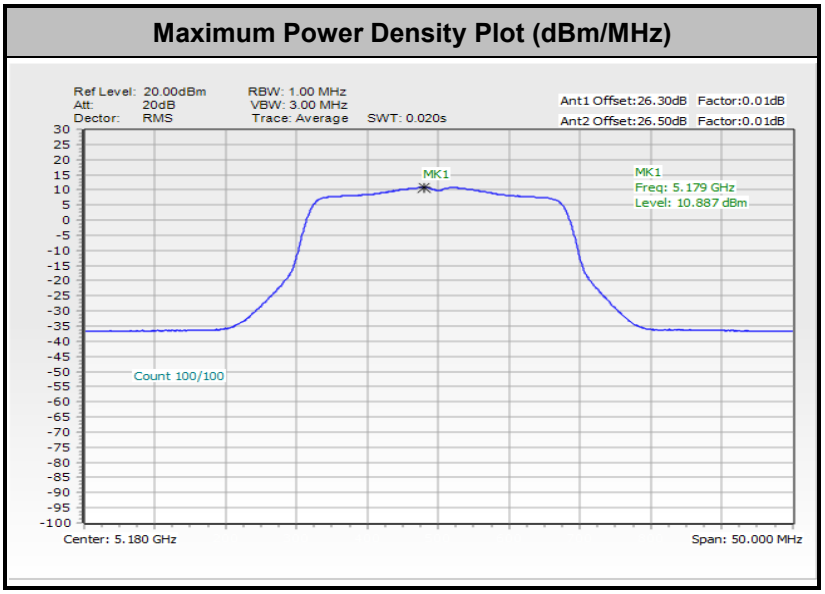
Maximum Power Density Plot (dBm/MHz)



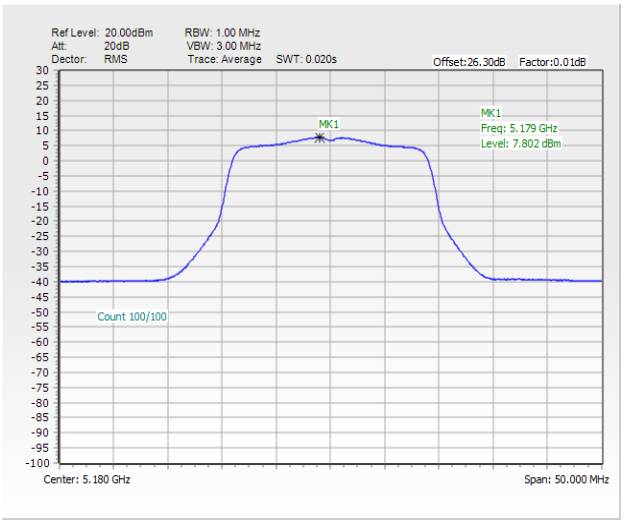
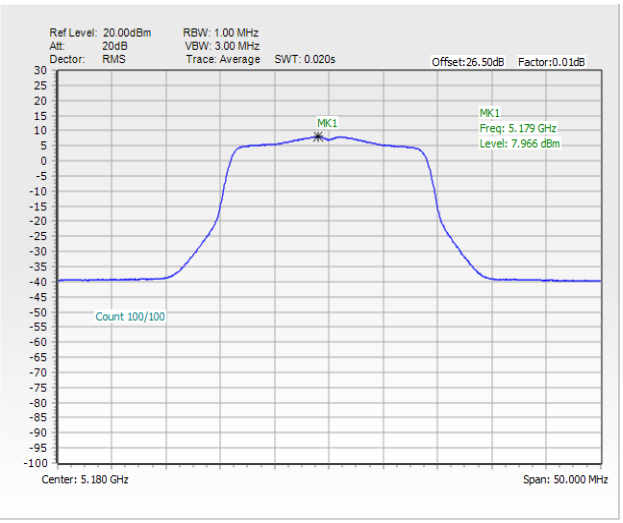
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 0)	Maximum Power Density Plot Trace 2 (Ant 1)
	

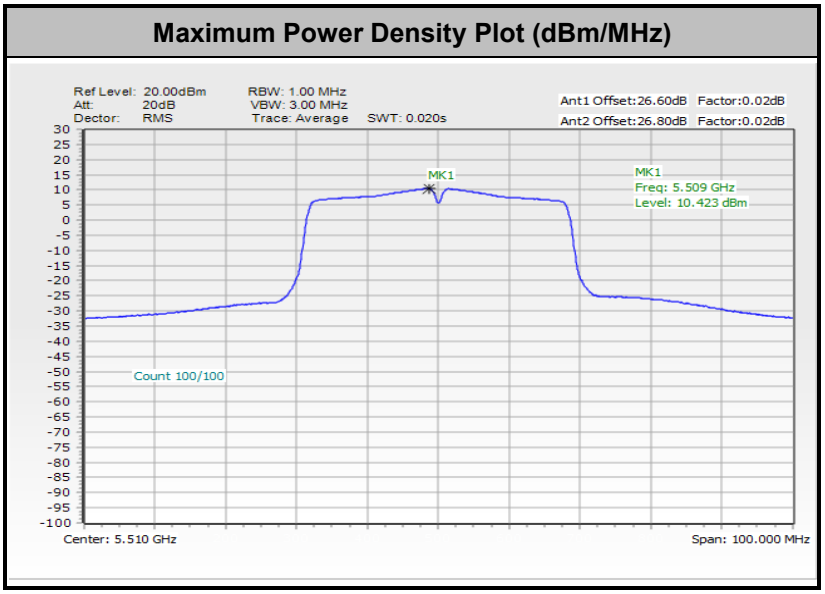
<802.11ac VHT20>

Maximum Power Density Plot (dBm/MHz)


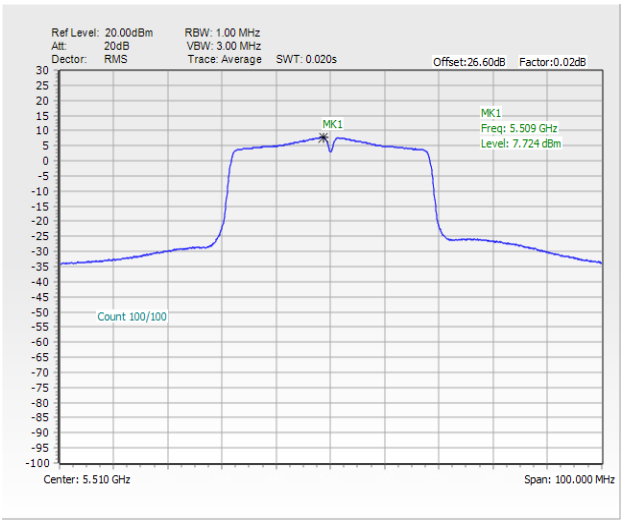
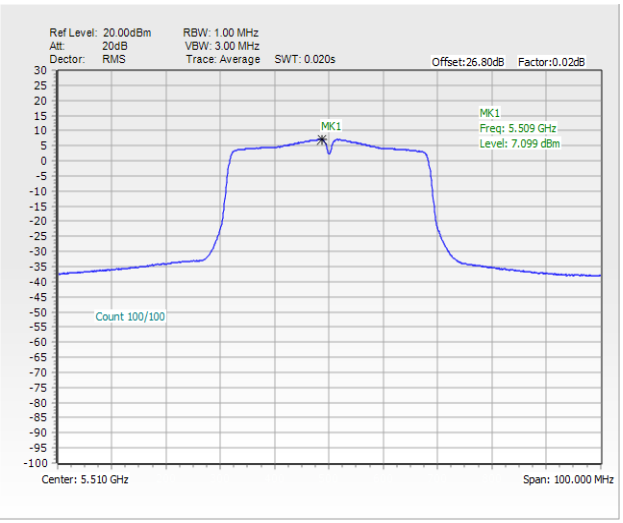
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 0)	Maximum Power Density Plot Trace 2 (Ant 1)
	

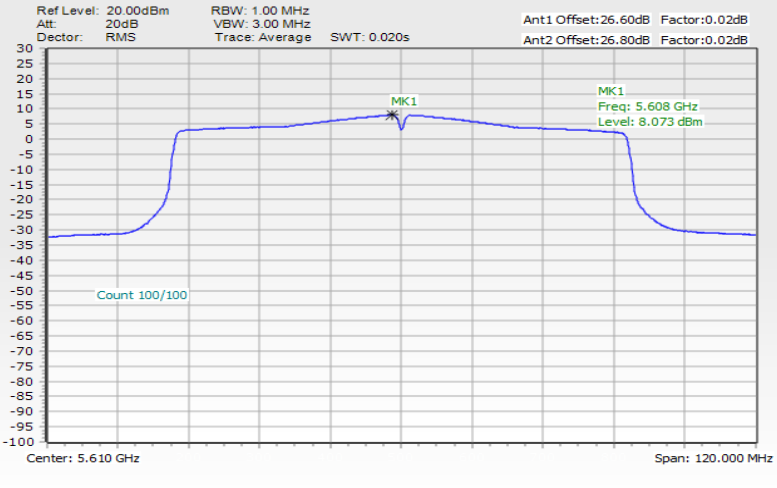
<802.11ac VHT40>

Maximum Power Density Plot (dBm/MHz)


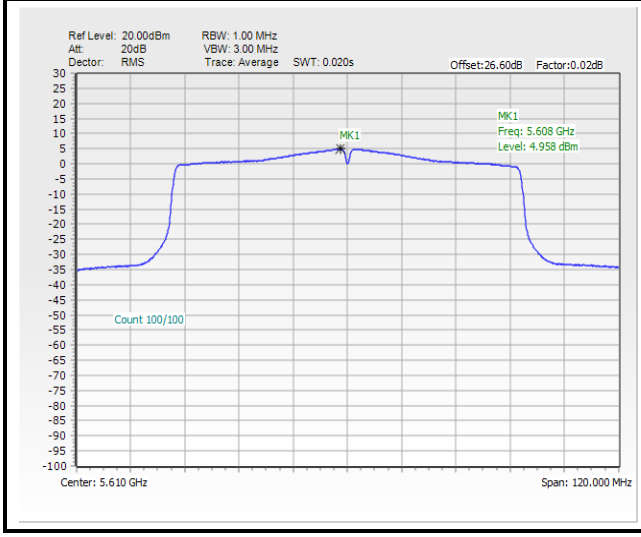
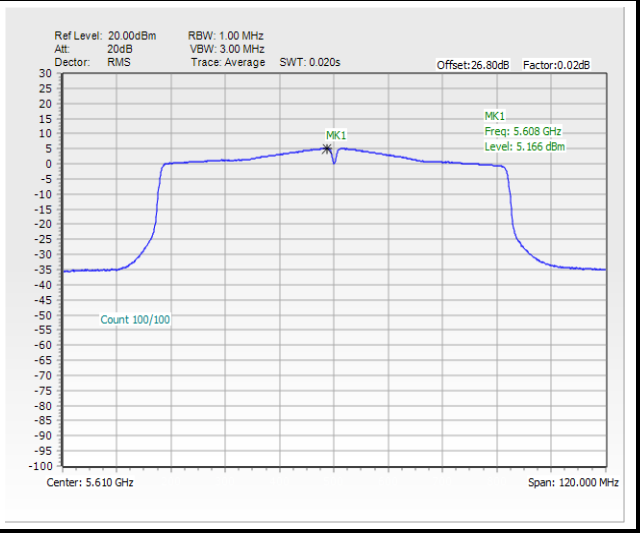
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 0)	Maximum Power Density Plot Trace 2 (Ant 1)
	

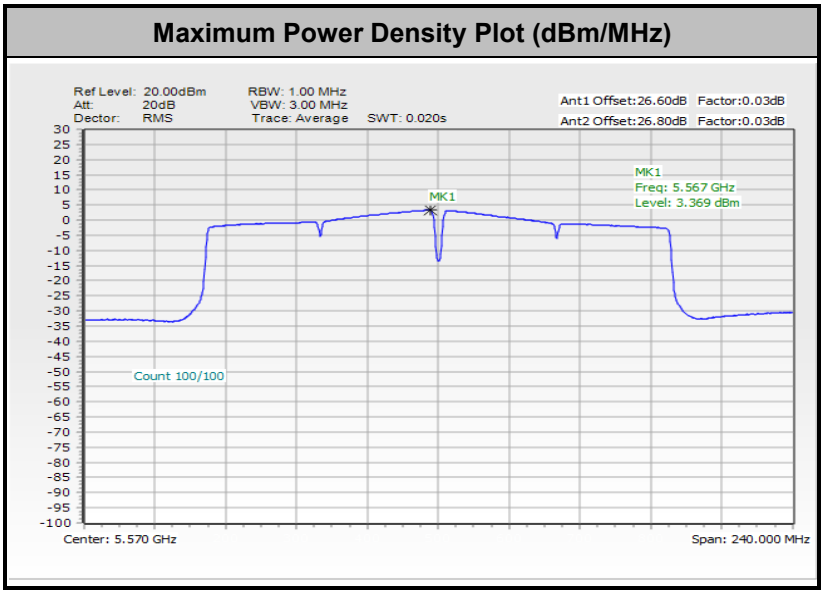
<802.11ac VHT80>

Maximum Power Density Plot (dBm/MHz)


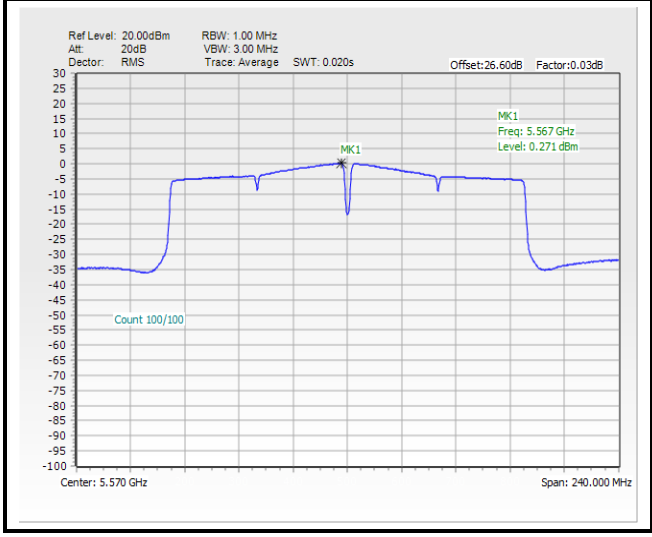
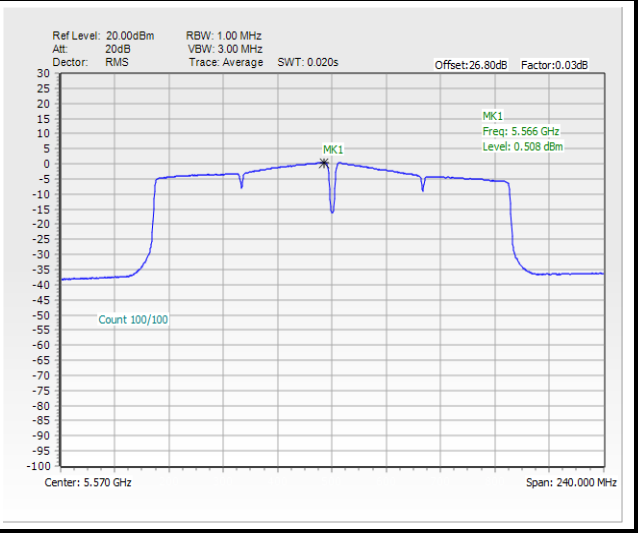
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 0)	Maximum Power Density Plot Trace 2 (Ant 1)
	

<802.11ac VHT160>

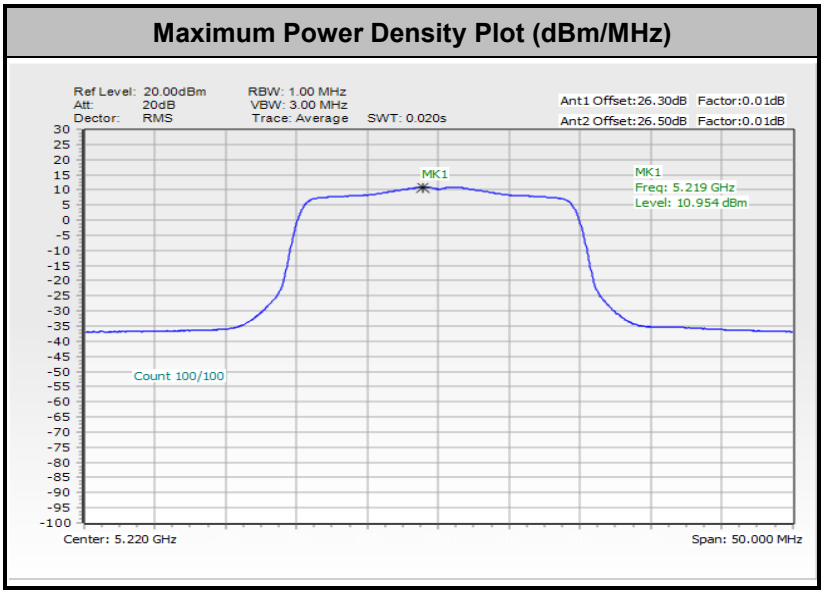
Maximum Power Density Plot (dBm/MHz)


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

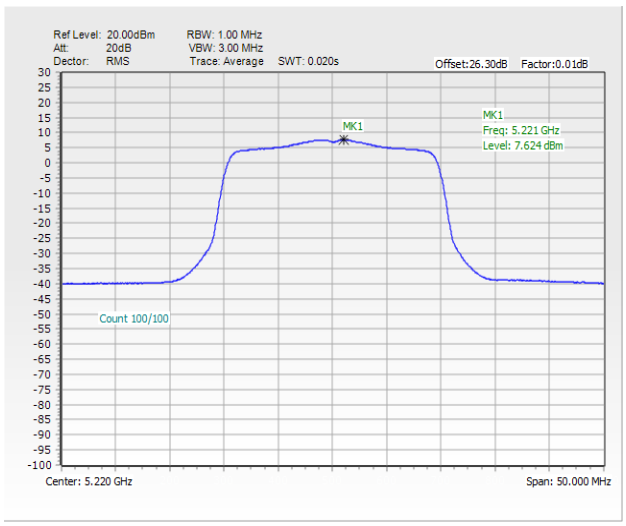
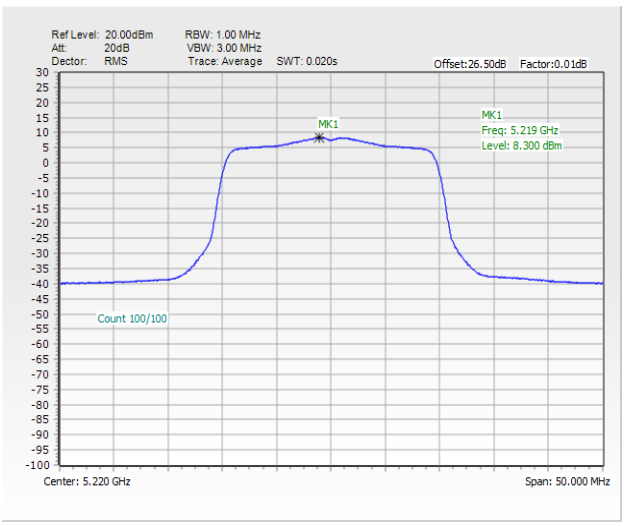
Maximum Power Density Plot Trace 1 (Ant 0)	Maximum Power Density Plot Trace 2 (Ant 1)
	

<802.11ax HE20>

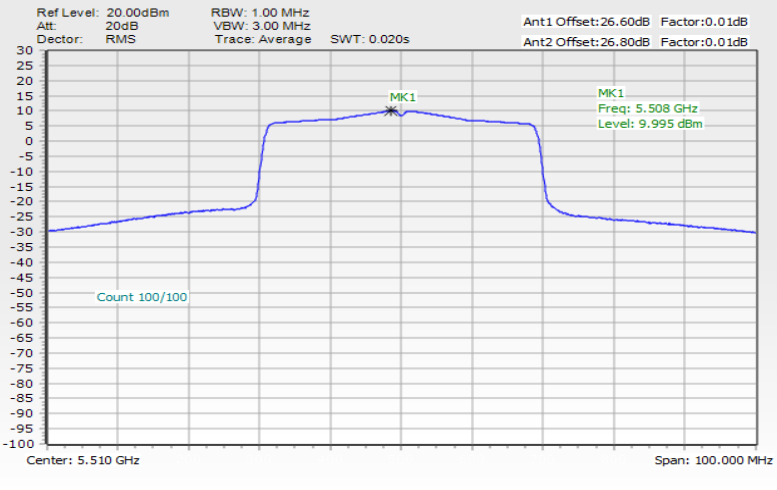
Maximum Power Density Plot (dBm/MHz)



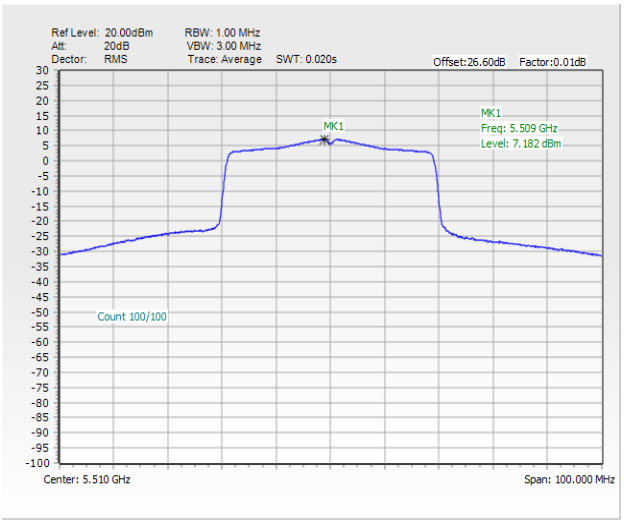
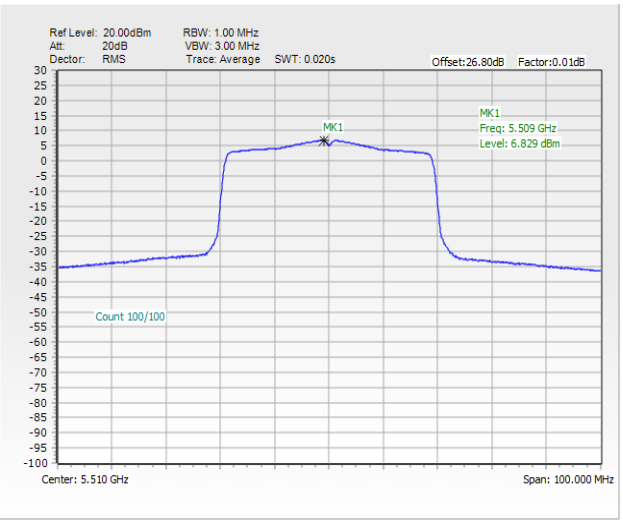
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 0)	Maximum Power Density Plot Trace 2 (Ant 1)
	

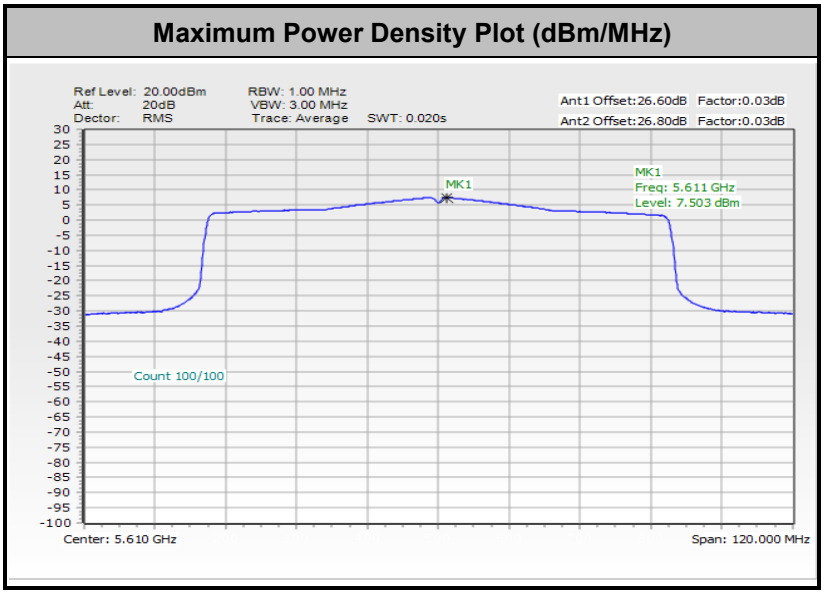
<802.11ax HE40>

Maximum Power Density Plot (dBm/MHz)


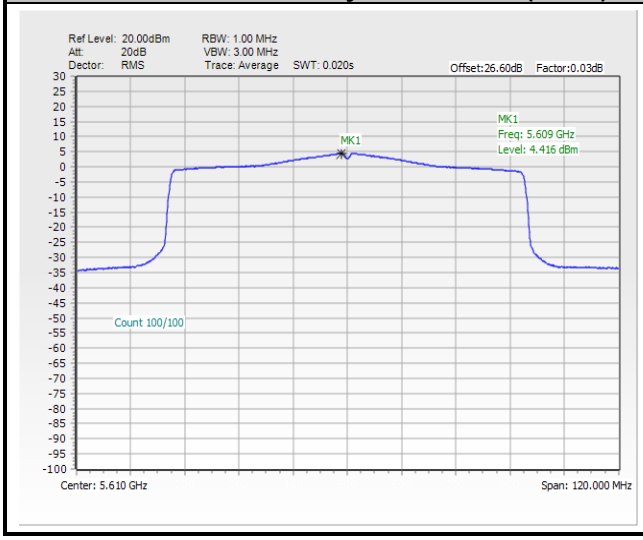
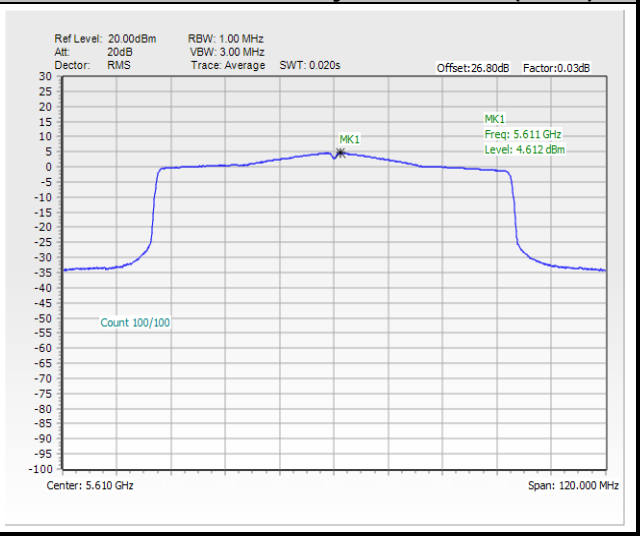
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 0)	Maximum Power Density Plot Trace 2 (Ant 1)
	

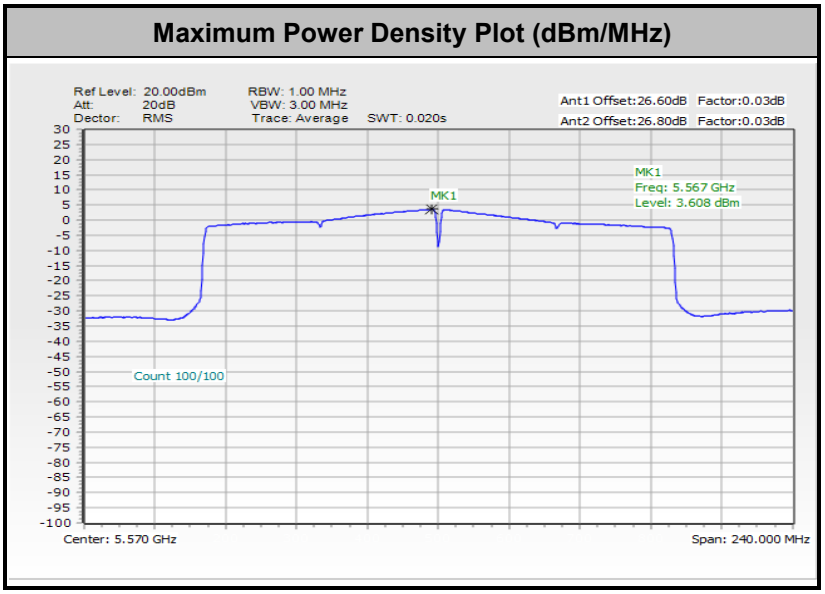
<802.11ax HE80>

Maximum Power Density Plot (dBm/MHz)


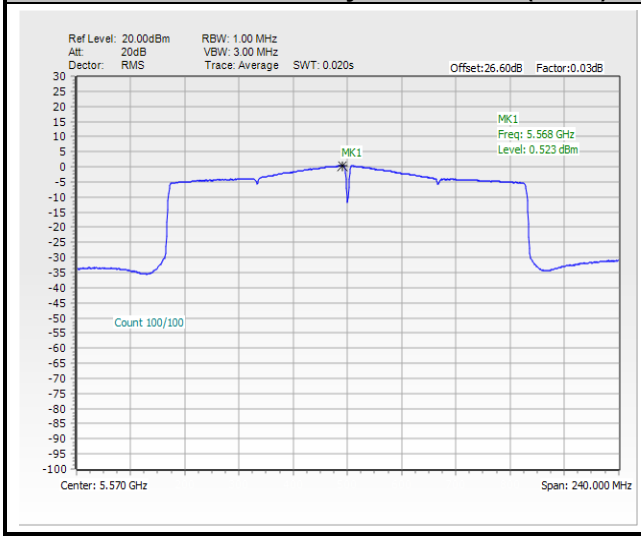
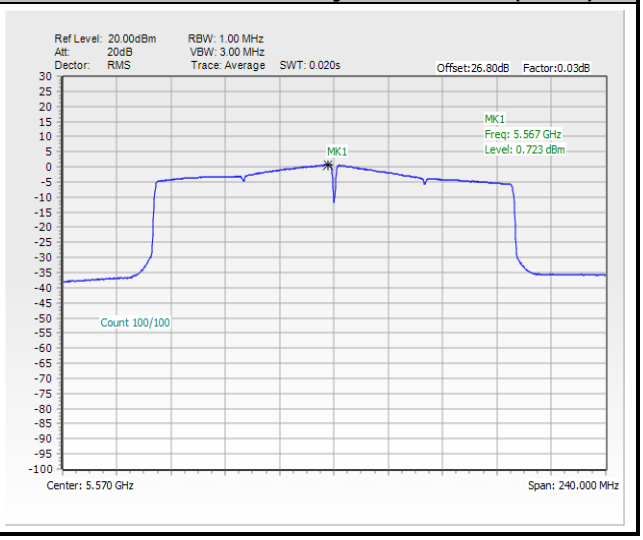
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

Maximum Power Density Plot Trace 1 (Ant 0)	Maximum Power Density Plot Trace 2 (Ant 1)
	

<802.11ax HE160>

Maximum Power Density Plot (dBm/MHz)


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

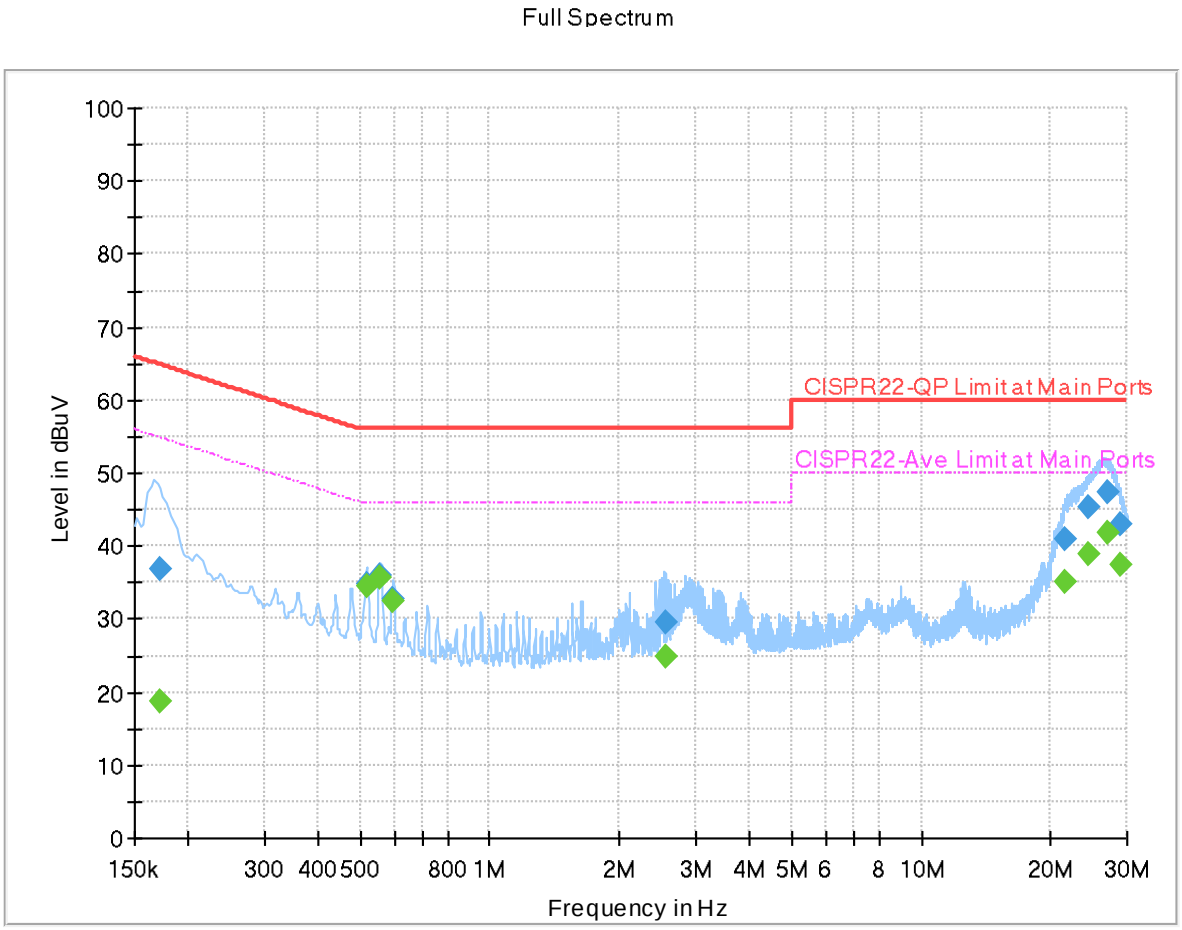
Maximum Power Density Plot Trace 1 (Ant 0)	Maximum Power Density Plot Trace 2 (Ant 1)
	

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	**Temperature :**	17.2~21.3℃
		Relative Humidity :	55.3~61.7%

EUT Information

Report NO :	3D0512
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

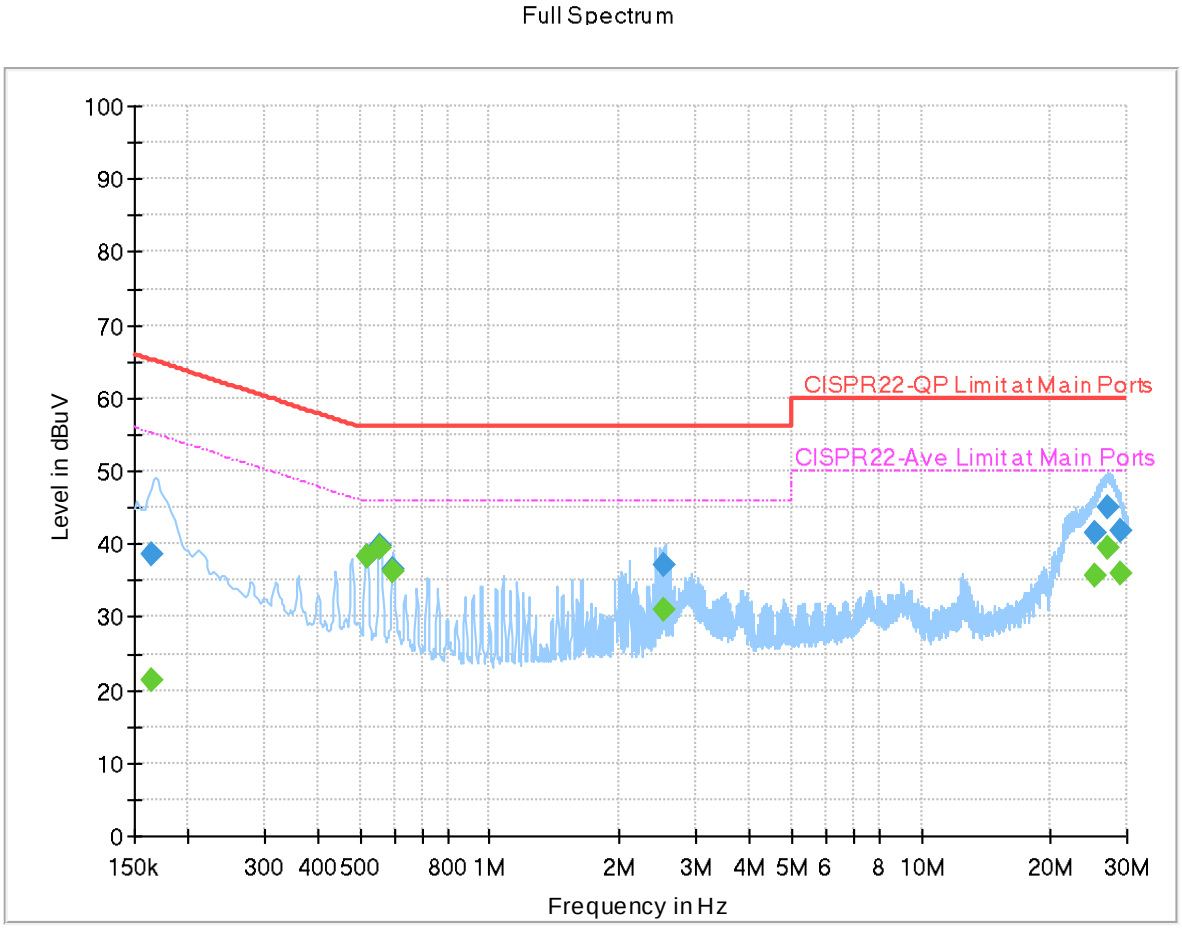


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.172320	---	18.81	54.85	36.04	L1	OFF	19.9
0.172320	36.91	---	64.85	27.94	L1	OFF	19.9
0.516570	---	34.42	46.00	11.58	L1	OFF	19.9
0.516570	34.79	---	56.00	21.21	L1	OFF	19.9
0.557070	---	35.79	46.00	10.21	L1	OFF	19.9
0.557070	35.90	---	56.00	20.10	L1	OFF	19.9
0.596400	---	32.50	46.00	13.50	L1	OFF	19.9
0.596400	32.69	---	56.00	23.31	L1	OFF	19.9
2.548500	---	24.78	46.00	21.22	L1	OFF	20.0
2.548500	29.40	---	56.00	26.60	L1	OFF	20.0
21.536250	---	35.17	50.00	14.83	L1	OFF	20.1
21.536250	40.96	---	60.00	19.04	L1	OFF	20.1
24.306000	---	38.76	50.00	11.24	L1	OFF	20.2
24.306000	45.36	---	60.00	14.64	L1	OFF	20.2
27.014190	---	41.86	50.00	8.14	L1	OFF	20.2
27.014190	47.28	---	60.00	12.72	L1	OFF	20.2
28.918050	---	37.33	50.00	12.67	L1	OFF	20.2
28.918050	42.96	---	60.00	17.04	L1	OFF	20.2

EUT Information

Report NO :	3D0512
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.163500	---	21.31	55.28	33.97	N	OFF	19.9
0.163500	38.47	---	65.28	26.81	N	OFF	19.9
0.517110	---	38.21	46.00	7.79	N	OFF	19.9
0.517110	38.43	---	56.00	17.57	N	OFF	19.9
0.557250	---	39.45	46.00	6.55	N	OFF	19.9
0.557250	39.65	---	56.00	16.35	N	OFF	19.9
0.596220	---	36.11	46.00	9.89	N	OFF	19.9
0.596220	36.43	---	56.00	19.57	N	OFF	19.9
2.544000	---	30.86	46.00	15.14	N	OFF	20.0
2.544000	37.27	---	56.00	18.73	N	OFF	20.0
25.254150	---	35.75	50.00	14.25	N	OFF	20.2
25.254150	41.41	---	60.00	18.59	N	OFF	20.2
27.073410	---	39.51	50.00	10.49	N	OFF	20.2
27.073410	45.01	---	60.00	14.99	N	OFF	20.2
28.834800	---	36.10	50.00	13.90	N	OFF	20.2
28.834800	41.70	---	60.00	18.30	N	OFF	20.2

Appendix C. Radiated Spurious Emission

Test Engineer :	Bill Chang, Tim Lee and Wilson Wu	**Temperature :**	20~25°C
		Relative Humidity :	50~60%

Band 1 - 5150~5250MHz

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.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5125.58	55.35	-18.65	74	45.06	33.35	10.67	33.73	100	129	P	H
		5146.64	46	-8	54	35.8	33.22	10.71	33.73	100	129	A	H
	*	5180	113.2	-	-	102.99	33.14	10.79	33.72	100	129	P	H
	*	5180	106.11	-	-	95.9	33.14	10.79	33.72	100	129	A	H
													H
													H
		5149.76	61.38	-12.62	74	51.19	33.2	10.72	33.73	100	123	P	V
		5149.76	52.08	-1.92	54	41.89	33.2	10.72	33.73	100	123	A	V
	*	5180	115.84	-	-	105.63	33.14	10.79	33.72	100	123	P	V
	*	5180	111.49	-	-	101.28	33.14	10.79	33.72	100	123	A	V
													V
													V
802.11a CH 44 5220MHz		5147.94	52.89	-21.11	74	42.69	33.21	10.72	33.73	100	94	P	H
		5149.76	44.78	-9.22	54	34.59	33.2	10.72	33.73	100	94	A	H
	*	5220	112.27	-	-	101.91	33.14	10.94	33.72	100	94	P	H
	*	5220	105.3	-	-	94.94	33.14	10.94	33.72	100	94	A	H
													H
													H
		5141.7	53.27	-20.73	74	43.05	33.25	10.7	33.73	100	119	P	V
		5065.78	46.89	-7.11	54	36.68	33.43	10.53	33.75	100	119	A	V
	*	5220	117.45	-	-	107.09	33.14	10.94	33.72	100	119	P	V
	*	5220	112.32	-	-	101.96	33.14	10.94	33.72	100	119	A	V
													V
													V

802.11a CH 48 5240MHz		5070.72	53.25	-20.75	74	43.01	33.44	10.55	33.75	307	129	P	H
		5087.1	45.11	-8.89	54	34.8	33.47	10.58	33.74	307	129	A	H
	*	5240	111.85	-	-	101.32	33.18	11.06	33.71	307	129	P	H
	*	5240	105.59	-	-	95.06	33.18	11.06	33.71	307	129	A	H
		5381.04	51.61	-22.39	74	40.3	33.14	11.85	33.68	307	129	P	H
		5360.04	43.35	-10.65	54	32.13	33.18	11.73	33.69	307	129	A	H
		5058.5	53.24	-20.76	74	43.05	33.42	10.52	33.75	100	120	P	V
		5085.8	46.6	-7.4	54	36.29	33.47	10.58	33.74	100	120	A	V
	*	5240	117.31	-	-	106.78	33.18	11.06	33.71	100	120	P	V
	*	5240	111.5	-	-	100.97	33.18	11.06	33.71	100	120	A	V
		5356.12	52.24	-21.76	74	41.03	33.19	11.71	33.69	100	120	P	V
		5353.88	44.32	-9.68	54	33.12	33.19	11.7	33.69	100	120	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. 0+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 36 5180MHz		10355	48.63	-19.57	68.2	59.44	39.09	17.74	67.64	-	-	P	H
		15540	50.5	-23.5	74	56.56	38.5	22.71	67.27	101	181	P	H
		15540	42.06	-11.94	54	48.12	38.5	22.71	67.27	101	181	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10355	48.29	-19.91	68.2	59.1	39.09	17.74	67.64	-	-	P	V
		15540	51.88	-22.12	74	57.94	38.5	22.71	67.27	100	52	P	V
		15540	45.03	-8.97	54	51.09	38.5	22.71	67.27	100	52	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+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)
		10443	49.49	-18.71	68.2	60.37	38.91	17.72	67.51	-	-	P	H
		15660	50.76	-23.24	74	57.4	37.88	22.82	67.34	100	182	P	H
		15660	41.54	-12.46	54	48.18	37.88	22.82	67.34	100	182	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 44 5220MHz		10443	49.39	-18.81	68.2	60.27	38.91	17.72	67.51	-	-	P	V
		15660	52.37	-21.63	74	59.01	37.88	22.82	67.34	100	26	P	V
		15660	42.83	-11.17	54	49.47	37.88	22.82	67.34	100	26	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+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 48 5240MHz		10480	49.91	-18.29	68.2	60.82	38.84	17.71	67.46	-	-	P	H
		15720	51.15	-22.85	74	57.73	37.92	22.87	67.37	100	178	P	H
		15720	42.76	-11.24	54	49.34	37.92	22.87	67.37	100	178	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10480	48.47	-19.73	68.2	59.38	38.84	17.71	67.46	-	-	P	V
		15720	51.52	-22.48	74	58.1	37.92	22.87	67.37	100	26	P	V
		15720	42.78	-11.22	54	49.36	37.92	22.87	67.37	100	26	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 1 5150~5250MHz

WIFI 802.11ac VHT20 (Band Edge @ 3m)

WIFI Ant. 0+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)
		5092.56	53.56	-20.44	74	43.22	33.49	10.59	33.74	306	135	P	H
		5150	45.18	-8.82	54	34.99	33.2	10.72	33.73	306	135	A	H
	*	5180	108.55	-	-	98.34	33.14	10.79	33.72	306	135	P	H
	*	5180	100.84	-	-	90.63	33.14	10.79	33.72	306	135	A	H
802.11ac													H
VHT20													H
CH 36		5146.64	56.38	-17.62	74	46.18	33.22	10.71	33.73	100	124	P	V
5180MHz		5147.94	47.89	-6.11	54	37.69	33.21	10.72	33.73	100	124	A	V
	*	5180	118.47	-	-	108.26	33.14	10.79	33.72	100	124	P	V
	*	5180	110.4	-	-	100.19	33.14	10.79	33.72	100	124	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT20 (Harmonic @ 3m)

WIFI Ant. 0+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)
		10360	47.36	-20.84	68.2	58.17	39.08	17.74	67.63	-	-	P	H
		15540	51.52	-22.48	74	57.58	38.5	22.71	67.27	100	180	P	H
		15540	42.18	-11.82	54	48.24	38.5	22.71	67.27	100	180	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ac													H
VHT20													H
CH 36		10360	47.18	-21.02	68.2	57.99	39.08	17.74	67.63	-	-	P	V
5180MHz		15540	51.55	-22.45	74	57.61	38.5	22.71	67.27	100	21	P	V
		15540	42.51	-11.49	54	48.57	38.5	22.71	67.27	100	21	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 1 5150~5250MHz

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

WIFI Ant. 0+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)
		5125.84	54.86	-19.14	74	44.58	33.34	10.67	33.73	301	131	P	H
		5150	46.56	-7.44	54	36.37	33.2	10.72	33.73	301	131	A	H
	*	5180	113.03	-	-	102.82	33.14	10.79	33.72	301	131	P	H
	*	5180	105.29	-	-	95.08	33.14	10.79	33.72	301	131	A	H
802.11ax													H
HE20 Full													H
CH 36		5149.76	58.38	-15.62	74	48.19	33.2	10.72	33.73	100	124	P	V
5180MHz		5148.72	48.81	-5.19	54	38.61	33.21	10.72	33.73	100	124	A	V
	*	5180	117.75	-	-	107.54	33.14	10.79	33.72	100	124	P	V
	*	5180	110.49	-	-	100.28	33.14	10.79	33.72	100	124	A	V
													V
													V
		5050.44	54.92	-19.08	74	44.77	33.4	10.5	33.75	299	130	P	H
		5149.76	44.78	-9.22	54	34.59	33.2	10.72	33.73	299	130	A	H
	*	5220	110.16	-	-	99.8	33.14	10.94	33.72	299	130	P	H
	*	5220	103.12	-	-	92.76	33.14	10.94	33.72	299	130	A	H
802.11ax		5378.8	53.05	-20.95	74	41.75	33.14	11.84	33.68	299	130	P	H
HE20 Full		5376.56	44.2	-9.8	54	32.9	33.15	11.83	33.68	299	130	A	H
CH 44		5064.74	55.56	-18.44	74	45.35	33.43	10.53	33.75	100	119	P	V
5220MHz		5065.52	46.57	-7.43	54	36.36	33.43	10.53	33.75	100	119	A	V
	*	5220	116.8	-	-	106.44	33.14	10.94	33.72	100	119	P	V
	*	5220	110.48	-	-	100.12	33.14	10.94	33.72	100	119	A	V
		5442.08	52.86	-21.14	74	41.79	33.02	11.72	33.67	100	119	P	V
		5371.8	44.8	-9.2	54	33.53	33.16	11.8	33.69	100	119	A	V

		5112.58	54.37	-19.63	74	44.05	33.42	10.64	33.74	302	131	P	H
		5088.4	44.97	-9.03	54	34.65	33.48	10.58	33.74	302	131	A	H
	*	5240	113.66	-	-	103.13	33.18	11.06	33.71	302	131	P	H
	*	5240	105.64	-	-	95.11	33.18	11.06	33.71	302	131	A	H
802.11ax		5397	52.67	-21.33	74	41.3	33.11	11.94	33.68	302	131	P	H
HE20 Full		5398.96	44.29	-9.71	54	32.92	33.1	11.95	33.68	302	131	A	H
CH 48		5135.98	54.78	-19.22	74	44.54	33.28	10.69	33.73	100	120	P	V
5240MHz		5085.54	46.9	-7.1	54	36.59	33.47	10.58	33.74	100	120	A	V
	*	5240	117.59	-	-	107.06	33.18	11.06	33.71	100	120	P	V
	*	5240	110.29	-	-	99.76	33.18	11.06	33.71	100	120	A	V
		5434.24	52.44	-21.56	74	41.31	33.03	11.77	33.67	100	120	P	V
		5350.24	45.04	-8.96	54	33.85	33.2	11.68	33.69	100	120	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. 0+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)
		10360	48.64	-19.56	68.2	59.45	39.08	17.74	67.63	-	-	P	H
		15540	52.53	-21.47	74	58.59	38.5	22.71	67.27	100	221	P	H
		15540	41.06	-12.94	54	47.12	38.5	22.71	67.27	100	221	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 36		10360	48.38	-19.82	68.2	59.19	39.08	17.74	67.63	-	-	P	V
5180MHz		15540	51.46	-22.54	74	57.52	38.5	22.71	67.27	100	23	P	V
		15540	42.42	-11.58	54	48.48	38.5	22.71	67.27	100	23	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+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)
		10440	48.62	-19.58	68.2	59.5	38.92	17.72	67.52	-	-	P	H
		15660	50.84	-23.16	74	57.48	37.88	22.82	67.34	100	221	P	H
		15660	41.74	-12.26	54	48.38	37.88	22.82	67.34	100	221	A	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 44		10440	49.33	-18.87	68.2	60.21	38.92	17.72	67.52	-	-	P	V
5220MHz		15660	50.41	-23.59	74	57.05	37.88	22.82	67.34	100	32	P	V
		15660	42.11	-11.89	54	48.75	37.88	22.82	67.34	100	32	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+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)
		10480	48.13	-20.07	68.2	59.04	38.84	17.71	67.46	-	-	P	H
		15720	50.79	-23.21	74	57.37	37.92	22.87	67.37	110	182	P	H
		15720	41.77	-12.23	54	48.35	37.92	22.87	67.37	110	182	A	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 48		10480	48.51	-19.69	68.2	59.42	38.84	17.71	67.46	-	-	P	V
5240MHz		15720	52.6	-21.4	74	59.18	37.92	22.87	67.37	100	51	P	V
		15720	42.77	-11.23	54	49.35	37.92	22.87	67.37	100	51	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 1 5150~5250MHz

WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI Ant. 0+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)
		5130	54.19	-19.81	74	43.92	33.32	10.68	33.73	294	131	P	H
		5150	45.17	-8.83	54	34.98	33.2	10.72	33.73	294	131	A	H
	*	5180	110.69	-	-	100.48	33.14	10.79	33.72	294	131	P	H
802.11ax	*	5180	104.56	-	-	94.35	33.14	10.79	33.72	294	131	A	H
HE20													H
Partial													H
106/53		5127.66	55.29	-18.71	74	45.02	33.33	10.67	33.73	102	122	P	V
CH 36		5150	46.48	-7.52	54	36.29	33.2	10.72	33.73	102	122	A	V
5180MHz	*	5180	114.68	-	-	104.47	33.14	10.79	33.72	102	122	P	V
	*	5180	106.86	-	-	96.65	33.14	10.79	33.72	102	122	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

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

WIFI Ant. 0+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)
		5127.66	54.77	-19.23	74	44.5	33.33	10.67	33.73	100	134	P	H
		5150	47.34	-6.66	54	37.15	33.2	10.72	33.73	100	134	A	H
	*	5190	109.75	-	-	99.54	33.12	10.81	33.72	100	134	P	H
	*	5190	103.08	-	-	92.87	33.12	10.81	33.72	100	134	A	H
802.11ax		5376.28	52.49	-21.51	74	41.19	33.15	11.83	33.68	100	134	P	H
HE40 Full		5399.8	44.02	-9.98	54	32.64	33.1	11.96	33.68	100	134	A	H
CH 38		5149.5	58.82	-15.18	74	48.63	33.2	10.72	33.73	100	123	P	V
5190MHz		5148.98	50.27	-3.73	54	40.07	33.21	10.72	33.73	100	123	A	V
	*	5190	113.93	-	-	103.72	33.12	10.81	33.72	100	123	P	V
	*	5190	107.85	-	-	97.64	33.12	10.81	33.72	100	123	A	V
		5363.12	53.43	-20.57	74	42.2	33.17	11.75	33.69	100	123	P	V
		5350	45.1	-8.9	54	33.91	33.2	11.68	33.69	100	123	A	V
		5105.04	54.4	-19.6	74	44.05	33.47	10.62	33.74	104	135	P	H
		5150	46.15	-7.85	54	35.96	33.2	10.72	33.73	104	135	A	H
	*	5230	109.98	-	-	99.53	33.16	11	33.71	104	135	P	H
	*	5230	104.23	-	-	93.78	33.16	11	33.71	104	135	A	H
802.11ax		5363.12	53.23	-20.77	74	42	33.17	11.75	33.69	104	135	P	H
HE40 Full		5354.16	44.79	-9.21	54	33.59	33.19	11.7	33.69	104	135	A	H
CH 46		5134.68	57.42	-16.58	74	47.17	33.29	10.69	33.73	100	119	P	V
5230MHz		5147.42	48.27	-5.73	54	38.07	33.22	10.71	33.73	100	119	A	V
	*	5230	114.79	-	-	104.34	33.16	11	33.71	100	119	P	V
	*	5230	109	-	-	98.55	33.16	11	33.71	100	119	A	V
		5378.24	56.05	-17.95	74	44.75	33.14	11.84	33.68	100	119	P	V
		5350.24	47.12	-6.88	54	35.93	33.2	11.68	33.69	100	119	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 0+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)
		10380	48.54	-19.66	68.2	59.37	39.04	17.73	67.6	-	-	P	H
		15570	50.37	-23.63	74	56.5	38.42	22.74	67.29	102	271	P	H
		15570	42.04	-11.96	54	48.17	38.42	22.74	67.29	102	271	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 38		10380	49.69	-18.51	68.2	60.52	39.04	17.73	67.6	-	-	P	V
5190MHz		15570	50.76	-23.24	74	56.89	38.42	22.74	67.29	100	18	P	V
		15570	42.19	-11.81	54	48.32	38.42	22.74	67.29	100	18	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+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)
		10460	49.05	-19.15	68.2	59.94	38.88	17.72	67.49	-	-	P	H
		15690	50.53	-23.47	74	57.21	37.82	22.85	67.35	100	321	P	H
		15690	41.44	-12.56	54	48.12	37.82	22.85	67.35	100	321	A	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 46		10460	48.66	-19.54	68.2	59.55	38.88	17.72	67.49	-	-	P	V
5230MHz		15690	49.75	-24.25	74	56.43	37.82	22.85	67.35	101	33	P	V
		15690	42.06	-11.94	54	48.74	37.82	22.85	67.35	101	33	A	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 HE40 Partial 242 (Band Edge @ 3m)

WIFI Ant. 0+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)
802.11ax HE40 Partial 242/61 CH 38 5190MHz		5150	62.54	-11.46	74	52.35	33.2	10.72	33.73	254	134	P	H
		5145.34	45.3	-8.7	54	35.09	33.23	10.71	33.73	254	134	A	H
	*	5190	111.45	-	-	101.24	33.12	10.81	33.72	254	134	P	H
	*	5190	103.64	-	-	93.43	33.12	10.81	33.72	254	134	A	H
		5445.44	53.28	-20.72	74	42.23	33.01	11.71	33.67	254	134	P	H
		5398.4	44.15	-9.85	54	32.78	33.1	11.95	33.68	254	134	A	H
		5147.94	70.74	-3.26	74	60.54	33.21	10.72	33.73	101	121	P	V
		5148.46	47.99	-6.01	54	37.79	33.21	10.72	33.73	101	121	A	V
	*	5190	115.04	-	-	104.83	33.12	10.81	33.72	101	121	P	V
	*	5190	107.16	-	-	96.95	33.12	10.81	33.72	101	121	A	V
		5405.12	54.57	-19.43	74	43.23	33.09	11.93	33.68	101	121	P	V
		5353.6	44.7	-9.3	54	33.5	33.19	11.7	33.69	101	121	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 (Band Edge @ 3m)

WIFI Ant. 0+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)
802.11ax HE80 Full CH 42 5210MHz		5022.1	54.91	-19.09	74	44.94	33.29	10.44	33.76	400	119	P	H
		5150	47.54	-6.46	54	37.35	33.2	10.72	33.73	400	119	A	H
	*	5210	102.63	-	-	92.34	33.12	10.89	33.72	400	119	P	H
	*	5210	95.03	-	-	84.74	33.12	10.89	33.72	400	119	A	H
		5422.76	53.29	-20.71	74	42.09	33.05	11.83	33.68	400	119	P	H
		5401.76	44.79	-9.21	54	33.42	33.1	11.95	33.68	400	119	A	H
		5146.9	59.37	-14.63	74	49.17	33.22	10.71	33.73	100	124	P	V
		5146.9	51.57	-2.43	54	41.37	33.22	10.71	33.73	100	124	A	V
	*	5210	112.96	-	-	102.67	33.12	10.89	33.72	100	124	P	V
	*	5210	105.86	-	-	95.57	33.12	10.89	33.72	100	124	A	V
		5368.16	56.03	-17.97	74	44.78	33.16	11.78	33.69	100	124	P	V
		5350.24	47.94	-6.06	54	36.75	33.2	11.68	33.69	100	124	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)

WIFI Ant. 0+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)
		10420	49.83	-18.37	68.2	60.7	38.96	17.72	67.55	-	-	P	H
		15630	51.48	-22.52	74	57.94	38.06	22.8	67.32	100	217	P	H
		15630	41.71	-12.29	54	48.17	38.06	22.8	67.32	100	217	A	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 42		10420	50.54	-17.66	68.2	61.41	38.96	17.72	67.55	-	-	P	V
5210MHz		15630	50.52	-23.48	74	56.98	38.06	22.8	67.32	100	19	P	V
		15630	40.68	-13.32	54	47.14	38.06	22.8	67.32	100	19	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 1 5150~5250MHz

WIFI 802.11ax HE80 Partial 484 (Band Edge @ 3m)

WIFI Ant. 0+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)
802.11ax HE80 Partial 484/65 CH 42 5210MHz		5148.2	66.2	-7.8	74	56	33.21	10.72	33.73	253	133	P	H
		5146.9	46.48	-7.52	54	36.28	33.22	10.71	33.73	253	133	A	H
	*	5210	109.79	-	-	99.5	33.12	10.89	33.72	253	133	P	H
	*	5210	100.66	-	-	90.37	33.12	10.89	33.72	253	133	A	H
		5356.12	59.63	-14.37	74	48.42	33.19	11.71	33.69	253	133	P	H
		5361.44	44.68	-9.32	54	33.45	33.18	11.74	33.69	253	133	A	H
		5145.6	71.21	-2.79	74	61	33.23	10.71	33.73	103	120	P	V
		5150	50.02	-3.98	54	39.83	33.2	10.72	33.73	103	120	A	V
	*	5210	111.79	-	-	101.5	33.12	10.89	33.72	103	120	P	V
	*	5210	104.37	-	-	94.08	33.12	10.89	33.72	103	120	A	V
		5354.16	64.58	-9.42	74	53.38	33.19	11.7	33.69	103	120	P	V
		5358.92	46.29	-7.71	54	35.07	33.18	11.73	33.69	103	120	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

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

WIFI Ant. 0+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)
802.11ax HE160 Full CH 50 5250MHz		5094.64	57.27	-16.73	74	46.92	33.49	10.6	33.74	108	133	P	H
		5138.84	47.78	-6.22	54	37.54	33.27	10.7	33.73	108	133	A	H
	*	5250	99.4	-	-	88.8	33.2	11.11	33.71	108	133	P	H
	*	5250	91.69	-	-	81.09	33.2	11.11	33.71	108	133	A	H
		5401.48	55.35	-18.65	74	43.98	33.1	11.95	33.68	108	133	P	H
		5401.48	46.35	-7.65	54	34.98	33.1	11.95	33.68	108	133	A	H
		5108.68	58.69	-15.31	74	48.35	33.45	10.63	33.74	100	120	P	V
		5099.58	49.59	-4.41	54	39.22	33.5	10.61	33.74	100	120	A	V
	*	5250	108.74	-	-	98.14	33.2	11.11	33.71	100	120	P	V
	*	5250	100.21	-	-	89.61	33.2	11.11	33.71	100	120	A	V
		5374.88	61	-13	74	49.72	33.15	11.82	33.69	100	120	P	V
		5386.36	52.08	-1.92	54	40.75	33.13	11.88	33.68	100	120	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 0+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)
		10500	48.96	-19.24	68.2	59.88	38.8	17.17	67.43	-	-	P	H
		15750	51.55	-22.45	74	57.93	38.1	22.08	67.38	100	176	P	H
		15750	41.77	-12.23	54	48.15	38.1	22.08	67.38	100	176	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 50		10500	49.68	-18.52	68.2	60.6	38.8	17.17	67.43	-	-	P	V
5250MHz		15750	51.61	-22.39	74	57.99	38.1	22.08	67.38	100	51	P	V
		15750	41.95	-12.05	54	48.33	38.1	22.08	67.38	100	51	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 1 5150~5250MHz

WIFI 802.11ax HE160 Partial 996 (Band Edge @ 3m)

WIFI Ant. 0+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)
802.11ax HE160 Partial 996/67 CH 50 5250MHz		5140.4	59.28	-14.72	74	49.05	33.26	10.7	33.73	100	127	P	H
		5147.16	45.63	-8.37	54	35.43	33.22	10.71	33.73	100	127	A	H
	*	5250	103.08	-	-	92.48	33.2	11.11	33.71	100	127	P	H
	*	5250	93.07	-	-	82.47	33.2	11.11	33.71	100	127	A	H
		5401.48	67.9	-6.1	74	56.53	33.1	11.95	33.68	100	127	P	H
		5401.48	47.47	-6.53	54	36.1	33.1	11.95	33.68	100	127	A	H
		5136.5	65.32	-8.68	74	55.08	33.28	10.69	33.73	100	121	P	V
		5149.5	48.76	-5.24	54	38.57	33.2	10.72	33.73	100	121	A	V
	*	5250	107.01	-	-	96.41	33.2	11.11	33.71	100	121	P	V
	*	5250	99.86	-	-	89.26	33.2	11.11	33.71	100	121	A	V
		5396.72	71.55	-2.45	74	60.18	33.11	11.94	33.68	100	121	P	V
		5401.48	50.32	-3.68	54	38.95	33.1	11.95	33.68	100	121	A	V
802.11ax HE160 Partial 996/S67 CH 50 5250MHz		5129.74	58.77	-15.23	74	48.5	33.32	10.68	33.73	108	128	P	H
		5102.7	44.51	-9.49	54	34.15	33.48	10.62	33.74	108	128	A	H
	*	5250	103.94	-	-	93.34	33.2	11.11	33.71	108	128	P	H
	*	5250	95.01	-	-	84.41	33.2	11.11	33.71	108	128	A	H
		5400.08	65.19	-8.81	74	53.81	33.1	11.96	33.68	108	128	P	H
		5398.68	46.27	-7.73	54	34.9	33.1	11.95	33.68	108	128	A	H
		5134.94	63.52	-10.48	74	53.27	33.29	10.69	33.73	100	112	P	V
		5129.48	45.64	-8.36	54	35.38	33.32	10.67	33.73	100	112	A	V
	*	5250	108.14	-	-	97.54	33.2	11.11	33.71	100	122	P	V
	*	5250	99.86	-	-	89.26	33.2	11.11	33.71	100	122	A	V
		5404.28	71.09	-2.91	74	59.74	33.09	11.94	33.68	100	122	P	V
		5398.68	49.23	-4.77	54	37.86	33.1	11.95	33.68	100	122	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 0+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 52 5260MHz		5109.14	54.1	-19.9	74	43.76	33.45	10.63	33.74	127	130	P	H
		5107.1	45.34	-8.66	54	34.99	33.46	10.63	33.74	127	130	A	H
	*	5260	110.29	-	-	99.63	33.2	11.17	33.71	127	130	P	H
	*	5260	104.9	-	-	94.24	33.2	11.17	33.71	127	130	A	H
		5380.56	53.03	-20.97	74	41.72	33.14	11.85	33.68	127	130	P	H
		5353.2	43.41	-10.59	54	32.21	33.19	11.7	33.69	127	130	A	H
		5109.48	54.71	-19.29	74	44.38	33.44	10.63	33.74	107	120	P	V
		5105.74	47.15	-6.85	54	36.8	33.47	10.62	33.74	107	120	A	V
	*	5260	118.37	-	-	107.71	33.2	11.17	33.71	107	120	P	V
	*	5260	112.19	-	-	101.53	33.2	11.17	33.71	107	120	A	V
		5357.52	53.57	-20.43	74	42.36	33.18	11.72	33.69	107	120	P	V
		5350.32	44.49	-9.51	54	33.3	33.2	11.68	33.69	107	120	A	V
802.11a CH 60 5300MHz		5058.14	54.03	-19.97	74	43.84	33.42	10.52	33.75	104	40	P	H
		5147.9	44.58	-9.42	54	34.38	33.21	10.72	33.73	104	40	A	H
	*	5300	112.55	-	-	101.65	33.2	11.4	33.7	104	40	P	H
	*	5300	106.05	-	-	95.15	33.2	11.4	33.7	104	40	A	H
		5369.28	53.44	-20.56	74	42.18	33.16	11.79	33.69	104	40	P	H
		5351.76	43.97	-10.03	54	32.77	33.2	11.69	33.69	104	40	A	H
		5135.66	54.73	-19.27	74	44.48	33.29	10.69	33.73	100	121	P	V
		5145.52	46.93	-7.07	54	36.72	33.23	10.71	33.73	100	121	A	V
	*	5300	118.68	-	-	107.78	33.2	11.4	33.7	100	121	P	V
	*	5300	112.5	-	-	101.6	33.2	11.4	33.7	100	121	A	V
		5371.44	54.75	-19.25	74	43.48	33.16	11.8	33.69	100	121	P	V
		5350.08	46.24	-7.76	54	35.05	33.2	11.68	33.69	100	121	A	V

802.11a CH 64 5320MHz		5097.92	54.27	-19.73	74	43.9	33.5	10.61	33.74	101	160	P	H
		5105.06	44.54	-9.46	54	34.19	33.47	10.62	33.74	101	160	A	H
	*	5320	111.18	-	-	100.17	33.2	11.51	33.7	101	160	P	H
	*	5320	105.41	-	-	94.4	33.2	11.51	33.7	101	160	A	H
		5408.64	53.24	-20.76	74	41.93	33.08	11.91	33.68	101	160	P	H
		5350.08	44.38	-9.62	54	33.19	33.2	11.68	33.69	101	160	A	H
		5088.74	53.87	-20.13	74	43.54	33.48	10.59	33.74	100	120	P	V
		5082.28	44.99	-9.01	54	34.7	33.46	10.57	33.74	100	120	A	V
	*	5320	118.7	-	-	107.69	33.2	11.51	33.7	100	120	P	V
	*	5320	112.22	-	-	101.21	33.2	11.51	33.7	100	120	A	V
		5363.04	56.26	-17.74	74	45.03	33.17	11.75	33.69	100	120	P	V
		5351.76	47.12	-6.88	54	35.92	33.2	11.69	33.69	100	120	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 0+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 52 5260MHz		10520	48.27	-19.93	68.2	59.08	38.88	17.72	67.41	-	-	P	H
		15780	50.68	-23.32	74	57.11	38.04	22.93	67.4	101	310	P	H
		15780	41.69	-12.31	54	48.12	38.04	22.93	67.4	101	310	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10520	48.7	-19.5	68.2	59.51	38.88	17.72	67.41	-	-	P	V
		15780	51.11	-22.89	74	57.54	38.04	22.93	67.4	100	28	P	V
		15780	42.11	-11.89	54	48.54	38.04	22.93	67.4	100	28	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+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)
		10600	47.85	-26.15	74	58.24	39.2	17.75	67.34	-	-	P	H
		15900	51	-23	74	57.63	37.8	23.04	67.47	100	187	P	H
		15900	41.99	-12.01	54	48.62	37.8	23.04	67.47	100	187	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 60 5300MHz		10600	47.89	-26.11	74	58.28	39.2	17.75	67.34	-	-	P	V
		15900	51.05	-22.95	74	57.68	37.8	23.04	67.47	100	28	P	V
		15900	42.05	-11.95	54	48.68	37.8	23.04	67.47	100	28	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+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)
		10640	47.53	-26.47	74	57.79	39.28	17.77	67.31	-	-	P	H
		15960	49.77	-24.23	74	56.38	37.8	23.09	67.5	101	330	P	H
		15960	40.51	-13.49	54	47.12	37.8	23.09	67.5	101	330	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 64 5320MHz		10640	47.93	-26.07	74	58.19	39.28	17.77	67.31	-	-	P	V
		15960	50.92	-23.08	74	57.53	37.8	23.09	67.5	101	302	P	V
		15960	41.92	-12.08	54	48.53	37.8	23.09	67.5	101	302	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 2 5250~5350MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 0+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)
802.11ac VHT80 CH 58 5290MHz		5109.14	54.33	-19.67	74	43.99	33.45	10.63	33.74	100	162	P	H
		5139.06	44.53	-9.47	54	34.29	33.27	10.7	33.73	100	162	A	H
	*	5290	106.53	-	-	95.69	33.2	11.34	33.7	100	162	P	H
	*	5290	100.4	-	-	89.56	33.2	11.34	33.7	100	162	A	H
		5352.2	58.04	-15.96	74	46.84	33.19	11.7	33.69	100	162	P	H
		5353.68	49.21	-4.79	54	38.01	33.19	11.7	33.69	100	162	A	H
		5138.38	57.82	-16.18	74	47.59	33.27	10.69	33.73	105	125	P	V
		5147.56	46.7	-7.3	54	36.51	33.21	10.71	33.73	105	125	A	V
	*	5290	112.92	-	-	102.08	33.2	11.34	33.7	105	125	P	V
	*	5290	105.88	-	-	95.04	33.2	11.34	33.7	105	125	A	V
		5358.96	61.48	-12.52	74	50.26	33.18	11.73	33.69	105	125	P	V
		5358.48	52.49	-1.51	54	41.27	33.18	11.73	33.69	105	125	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 0+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)
		10580	47.84	-20.36	68.2	58.33	39.12	17.75	67.36	-	-	P	H
		15870	50.48	-23.52	74	57.06	37.86	23.01	67.45	100	185	P	H
		15870	41.55	-12.45	54	48.13	37.86	23.01	67.45	100	185	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ac VHT80 CH 58 5290MHz													H
		10580	47.25	-20.95	68.2	57.74	39.12	17.75	67.36	-	-	P	V
		15870	51.76	-22.24	74	58.34	37.86	23.01	67.45	100	27	P	V
		15870	41.96	-12.04	54	48.54	37.86	23.01	67.45	100	27	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 2 5250~5350MHz

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

WIFI Ant. 0+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)
		5104.72	55.53	-18.47	74	45.18	33.47	10.62	33.74	292	133	P	H
		5107.78	45.38	-8.62	54	35.04	33.45	10.63	33.74	292	133	A	H
	*	5260	113.79	-	-	103.13	33.2	11.17	33.71	292	133	P	H
	*	5260	105.93	-	-	95.27	33.2	11.17	33.71	292	133	A	H
802.11ax		5356.32	54.37	-19.63	74	43.16	33.19	11.71	33.69	292	133	P	H
HE20 Full		5400.24	44.29	-9.71	54	32.91	33.1	11.96	33.68	292	133	A	H
CH 52		5106.76	56.74	-17.26	74	46.4	33.46	10.62	33.74	105	120	P	V
5260MHz		5105.74	47.2	-6.8	54	36.85	33.47	10.62	33.74	105	120	A	V
	*	5260	118.67	-	-	108.01	33.2	11.17	33.71	105	120	P	V
	*	5260	110.85	-	-	100.19	33.2	11.17	33.71	105	120	A	V
		5352.96	54.53	-19.47	74	43.34	33.19	11.69	33.69	105	120	P	V
		5350.08	45.62	-8.38	54	34.43	33.2	11.68	33.69	105	120	A	V
		5066.3	55.93	-18.07	74	45.71	33.43	10.54	33.75	280	132	P	H
		5147.22	45.16	-8.84	54	34.96	33.22	10.71	33.73	280	132	A	H
	*	5300	113.18	-	-	102.28	33.2	11.4	33.7	280	132	P	H
	*	5300	105.84	-	-	94.94	33.2	11.4	33.7	280	132	A	H
802.11ax		5378.64	54.57	-19.43	74	43.27	33.14	11.84	33.68	280	132	P	H
HE20 Full		5352.72	45.49	-8.51	54	34.3	33.19	11.69	33.69	280	132	A	H
CH 60		5147.22	56.37	-17.63	74	46.17	33.22	10.71	33.73	100	123	P	V
5300MHz		5145.52	46.85	-7.15	54	36.64	33.23	10.71	33.73	100	123	A	V
	*	5300	119.02	-	-	108.12	33.2	11.4	33.7	100	123	P	V
	*	5300	111.43	-	-	100.53	33.2	11.4	33.7	100	123	A	V
		5360.16	56.63	-17.37	74	45.41	33.18	11.73	33.69	100	123	P	V
		5350.08	48.21	-5.79	54	37.02	33.2	11.68	33.69	100	123	A	V

	*	5320	110.36	-	-	99.35	33.2	11.51	33.7	100	95	P	H
	*	5320	103.98	-	-	92.97	33.2	11.51	33.7	100	95	A	H
		5393.12	53.73	-20.27	74	42.38	33.11	11.92	33.68	100	95	P	H
		5350.08	45.98	-8.02	54	34.79	33.2	11.68	33.69	100	95	A	H
802.11ax													H
HE20 Full													H
CH 64	*	5320	118.58	-	-	107.57	33.2	11.51	33.7	100	122	P	V
5320MHz	*	5320	111.65	-	-	100.64	33.2	11.51	33.7	100	122	A	V
		5360.8	56.68	-17.32	74	45.45	33.18	11.74	33.69	100	122	P	V
		5350.08	49.54	-4.46	54	38.35	33.2	11.68	33.69	100	122	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. 0+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)
		10520	47.96	-20.24	68.2	58.77	38.88	17.72	67.41	-	-	P	H
		15780	53.61	-20.39	74	60.04	38.04	22.93	67.4	100	182	P	H
		15780	42.48	-11.52	54	48.91	38.04	22.93	67.4	100	182	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 52		10520	47.91	-20.29	68.2	58.72	38.88	17.72	67.41	-	-	P	V
5260MHz		15780	56.19	-17.81	74	62.62	38.04	22.93	67.4	100	26	P	V
		15780	43.14	-10.86	54	49.57	38.04	22.93	67.4	100	26	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+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)
		10600	47.8	-26.2	74	58.19	39.2	17.75	67.34	-	-	P	H
		15900	52.68	-21.32	74	59.31	37.8	23.04	67.47	100	182	P	H
		15900	41.83	-12.17	54	48.46	37.8	23.04	67.47	100	182	A	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 60		10600	47.87	-26.13	74	58.26	39.2	17.75	67.34	-	-	P	V
5300MHz		15900	52.96	-21.04	74	59.59	37.8	23.04	67.47	100	28	P	V
		15900	42.41	-11.59	54	49.04	37.8	23.04	67.47	100	28	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+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)
		7093	59.72	-8.48	68.2	73.97	36.47	15.13	65.85	100	357	P	H
		10640	48.83	-25.17	74	59.09	39.28	17.77	67.31	303	78	P	H
		10640	38.36	-15.64	54	48.62	39.28	17.77	67.31	303	78	A	H
		15960	52.39	-21.61	74	59	37.8	23.09	67.5	211	287	P	H
		15960	41.54	-12.46	54	48.15	37.8	23.09	67.5	211	287	A	H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 64		7093	61.91	-6.29	68.2	76.16	36.47	15.13	65.85	100	73	P	V
5320MHz		10640	47.84	-26.16	74	58.1	39.28	17.77	67.31	100	193	P	V
		10640	37.89	-16.11	54	48.15	39.28	17.77	67.31	100	193	A	V
		15960	54.69	-19.31	74	61.3	37.8	23.09	67.5	100	309	P	V
		15960	44.26	-9.74	54	50.87	37.8	23.09	67.5	100	309	A	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 2 5250~5350MHz

WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI Ant. 0+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)
802.11ax HE20 Partial 106/54 CH 60 5300MHz		5147.22	53.57	-20.43	74	43.37	33.22	10.71	33.73	287	132	P	H
		5149.6	45.26	-8.74	54	35.07	33.2	10.72	33.73	287	132	A	H
	*	5300	114.69	-	-	103.79	33.2	11.4	33.7	287	132	P	H
	*	5300	106.85	-	-	95.95	33.2	11.4	33.7	287	132	A	H
		5354.64	61.4	-12.6	74	50.2	33.19	11.7	33.69	287	132	P	H
		5350.08	44.42	-9.58	54	33.23	33.2	11.68	33.69	287	132	A	H
		5071.74	54.69	-19.31	74	44.45	33.44	10.55	33.75	103	112	P	V
		5149.26	45.77	-8.23	54	35.58	33.2	10.72	33.73	103	112	A	V
	*	5300	114.34	-	-	103.44	33.2	11.4	33.7	103	112	P	V
	*	5300	106.59	-	-	95.69	33.2	11.4	33.7	103	112	A	V
		5352.24	61.34	-12.66	74	50.14	33.2	11.69	33.69	103	112	P	V
		5350.32	44.59	-9.41	54	33.4	33.2	11.68	33.69	103	112	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 (Band Edge @ 3m)

WIFI Ant. 0+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)
		5109.48	54.62	-19.38	74	44.29	33.44	10.63	33.74	100	97	P	H
		5147.56	44.99	-9.01	54	34.8	33.21	10.71	33.73	100	97	A	H
	*	5270	110.6	-	-	99.88	33.2	11.23	33.71	100	97	P	H
	*	5270	102.74	-	-	92.02	33.2	11.23	33.71	100	97	A	H
802.11ax		5390.4	55.57	-18.43	74	44.22	33.12	11.91	33.68	100	97	P	H
HE40 Full		5350.08	45.79	-8.21	54	34.6	33.2	11.68	33.69	100	97	A	H
CH 54		5132.94	57.07	-16.93	74	46.82	33.3	10.68	33.73	101	124	P	V
5270MHz		5147.22	47.19	-6.81	54	36.99	33.22	10.71	33.73	101	124	A	V
	*	5270	116.99	-	-	106.27	33.2	11.23	33.71	101	124	P	V
	*	5270	109.31	-	-	98.59	33.2	11.23	33.71	101	124	A	V
		5386.32	58.25	-15.75	74	46.92	33.13	11.88	33.68	101	124	P	V
		5350.08	48.86	-5.14	54	37.67	33.2	11.68	33.69	101	124	A	V
		5113.56	54.96	-19.04	74	44.64	33.42	10.64	33.74	100	131	P	H
		5103.7	44.33	-9.67	54	33.97	33.48	10.62	33.74	100	131	A	H
	*	5310	109.98	-	-	99.03	33.2	11.45	33.7	100	131	P	H
	*	5310	101.87	-	-	90.92	33.2	11.45	33.7	100	131	A	H
802.11ax		5350.32	58.69	-15.31	74	47.5	33.2	11.68	33.69	100	131	P	H
HE40 Full		5350.08	49.1	-4.9	54	37.91	33.2	11.68	33.69	100	131	A	H
CH 62		5109.14	56.56	-17.44	74	46.22	33.45	10.63	33.74	101	123	P	V
5310MHz		5145.18	45.48	-8.52	54	35.27	33.23	10.71	33.73	101	123	A	V
	*	5310	113.93	-	-	102.98	33.2	11.45	33.7	101	123	P	V
	*	5310	107.53	-	-	96.58	33.2	11.45	33.7	101	123	A	V
		5350.56	60.87	-13.13	74	49.68	33.2	11.68	33.69	101	123	P	V
		5350.08	52.26	-1.74	54	41.07	33.2	11.68	33.69	101	123	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. 0+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)
		10540	47.43	-20.77	68.2	58.14	38.96	17.73	67.4	-	-	P	H
		15810	51.22	-22.78	74	57.71	37.98	22.95	67.42	100	183	P	H
		15810	41.81	-12.19	54	48.3	37.98	22.95	67.42	100	183	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 54		10540	47.58	-20.62	68.2	58.29	38.96	17.73	67.4	-	-	P	V
5270MHz		15810	51.81	-22.19	74	58.3	37.98	22.95	67.42	100	29	P	V
		15810	42	-12	54	48.49	37.98	22.95	67.42	100	29	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+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)
		7079	58.37	-9.83	68.2	72.64	36.42	13.94	65.84	107	355	P	H
		10619	48.16	-25.84	74	58.49	39.24	17.22	67.33	-	-	P	H
		15930	51.82	-22.18	74	58.44	37.8	22.23	67.48	100	48	P	H
		15930	41.23	-12.77	54	47.85	37.8	22.23	67.48	100	48	A	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 62		7079	58.87	-9.33	68.2	73.14	36.42	13.94	65.84	105	46	P	V
5310MHz		10619	48.22	-25.78	74	58.55	39.24	17.22	67.33	-	-	P	V
		15930	50.08	-23.92	74	56.7	37.8	22.23	67.48	100	139	P	V
		15930	41.31	-12.69	54	47.93	37.8	22.23	67.48	100	139	A	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 2 5250~5350MHz

WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)

WIFI Ant. 0+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)
802.11ax HE40 Partial 242/62 CH 62 5310MHz		5092.82	54.18	-19.82	74	43.84	33.49	10.59	33.74	257	130	P	H
		5085	44.02	-9.98	54	33.71	33.47	10.58	33.74	257	130	A	H
	*	5310	110.34	-	-	99.39	33.2	11.45	33.7	257	130	P	H
	*	5310	103.13	-	-	92.18	33.2	11.45	33.7	257	130	A	H
		5352.72	68.41	-5.59	74	57.22	33.19	11.69	33.69	257	130	P	H
		5352.24	48.24	-5.76	54	37.04	33.2	11.69	33.69	257	130	A	H
		5139.74	55.02	-18.98	74	44.79	33.26	10.7	33.73	100	120	P	V
		5086.02	44.23	-9.77	54	33.92	33.47	10.58	33.74	100	120	A	V
	*	5310	115.05	-	-	104.1	33.2	11.45	33.7	100	120	P	V
	*	5310	107.16	-	-	96.21	33.2	11.45	33.7	100	120	A	V
		5350.08	70.58	-3.42	74	59.39	33.2	11.68	33.69	100	120	P	V
		5350.08	48.2	-5.8	54	37.01	33.2	11.68	33.69	100	120	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 (Band Edge @ 3m)

WIFI Ant. 0+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)
802.11ax HE80 Full CH 58 5290MHz		5124.1	53.97	-20.03	74	43.69	33.36	10.66	33.74	118	39	P	H
		5100.98	44.91	-9.09	54	34.55	33.49	10.61	33.74	118	39	A	H
	*	5290	107.21	-	-	96.37	33.2	11.34	33.7	118	39	P	H
	*	5290	100.4	-	-	89.56	33.2	11.34	33.7	118	39	A	H
		5363.52	55.11	-18.89	74	43.88	33.17	11.75	33.69	118	39	P	H
		5353.68	46.36	-7.64	54	35.16	33.19	11.7	33.69	118	39	A	H
		5146.2	56.06	-17.94	74	45.86	33.22	10.71	33.73	100	120	P	V
		5135.66	47.57	-6.43	54	37.32	33.29	10.69	33.73	100	120	A	V
	*	5290	113.64	-	-	102.8	33.2	11.34	33.7	100	120	P	V
	*	5290	106.77	-	-	95.93	33.2	11.34	33.7	100	120	A	V
		5357.52	62.05	-11.95	74	50.84	33.18	11.72	33.69	100	120	P	V
		5358	52.71	-1.29	54	41.5	33.18	11.72	33.69	100	120	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)

WIFI Ant. 0+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)
		10580	47.53	-20.67	68.2	58.02	39.12	17.75	67.36	-	-	P	H
		15870	50.15	-23.85	74	56.73	37.86	23.01	67.45	100	183	P	H
		15870	41.1	-12.9	54	47.68	37.86	23.01	67.45	100	183	A	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 58		10580	47.9	-20.3	68.2	58.39	39.12	17.75	67.36	-	-	P	V
5290MHz		15870	50.29	-23.71	74	56.87	37.86	23.01	67.45	100	24	P	V
		15870	41.13	-12.87	54	47.71	37.86	23.01	67.45	100	24	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 2 5250~5350MHz

WIFI 802.11ax HE80 Partial 484 (Band Edge @ 3m)

WIFI Ant. 0+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)
802.11ax HE80 Partial 484/66 CH 58 5290MHz		5141.44	59.28	-14.72	74	49.06	33.25	10.7	33.73	273	131	P	H
		5141.44	45.19	-8.81	54	34.97	33.25	10.7	33.73	273	131	A	H
	*	5290	108.07	-	-	97.23	33.2	11.34	33.7	273	131	P	H
	*	5290	100.28	-	-	89.44	33.2	11.34	33.7	273	131	A	H
		5383.2	60.97	-13.03	74	49.65	33.13	11.87	33.68	273	131	P	H
		5350.08	46.31	-7.69	54	35.12	33.2	11.68	33.69	273	131	A	H
		5134.3	58.53	-15.47	74	48.28	33.29	10.69	33.73	100	122	P	V
		5129.54	45.95	-8.05	54	35.69	33.32	10.67	33.73	100	122	A	V
	*	5290	112.91	-	-	102.07	33.2	11.34	33.7	100	122	P	V
	*	5290	104.11	-	-	93.27	33.2	11.34	33.7	100	122	A	V
		5376.48	70.73	-3.27	74	59.43	33.15	11.83	33.68	100	122	P	V
		5350.8	50.36	-3.64	54	39.17	33.2	11.68	33.69	100	122	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 0+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		5457.04	52.71	-21.29	74	41.73	33.01	11.64	33.67	119	157	P	H
		5467.12	52.5	-15.7	68.2	41.56	33.03	11.58	33.67	119	157	P	H
		5459.92	43.8	-10.2	54	32.83	33.02	11.62	33.67	119	157	A	H
	*	5500	109.82	-	-	98.98	33.1	11.4	33.66	119	157	P	H
	*	5500	104.56	-	-	93.72	33.1	11.4	33.66	119	157	A	H
		5750.51	56.41	-11.79	68.2	45.56	33.5	11.18	33.83	119	157	P	H
		5456.56	54.52	-19.48	74	43.54	33.01	11.64	33.67	100	121	P	V
		5468.08	54.82	-13.38	68.2	43.87	33.04	11.58	33.67	100	121	P	V
		5458	46.04	-7.96	54	35.05	33.02	11.64	33.67	100	121	A	V
	*	5500	115.98	-	-	105.14	33.1	11.4	33.66	100	121	P	V
	*	5500	111.26	-	-	100.42	33.1	11.4	33.66	100	121	A	V
		5738.225	56.46	-11.74	68.2	45.69	33.41	11.18	33.82	100	121	P	V
802.11a CH 116 5580MHz		5455.84	52.76	-21.24	74	41.77	33.01	11.65	33.67	100	160	P	H
		5464.72	50.37	-17.83	68.2	39.41	33.03	11.6	33.67	100	160	P	H
		5379.52	43.22	-10.78	54	31.92	33.14	11.84	33.68	100	160	A	H
	*	5580	111.06	-	-	100.34	33.16	11.27	33.71	100	160	P	H
	*	5580	105.23	-	-	94.51	33.16	11.27	33.71	100	160	A	H
		5750.51	54.98	-13.22	68.2	44.13	33.5	11.18	33.83	100	160	P	H
		5429.44	53.12	-20.88	74	41.95	33.04	11.8	33.67	100	123	P	V
		5460.4	50.99	-17.21	68.2	40.02	33.02	11.62	33.67	100	123	P	V
		5425.6	44.72	-9.28	54	33.52	33.05	11.82	33.67	100	123	A	V
	*	5580	116.72	-	-	106	33.16	11.27	33.71	100	123	P	V
	*	5580	111.84	-	-	101.12	33.16	11.27	33.71	100	123	A	V
		5747.99	56.86	-11.34	68.2	46.02	33.48	11.18	33.82	100	123	P	V

802.11a CH 140 5700MHz	*	5700	109.23	-	-	98.72	33.1	11.2	33.79	341	126	P	H
	*	5700	104.47	-	-	93.96	33.1	11.2	33.79	341	126	A	H
		5765	55.21	-12.99	68.2	44.25	33.62	11.17	33.83	341	126	P	H
													H
													H
													H
	*	5700	116.67	-	-	106.16	33.1	11.2	33.79	100	119	P	V
	*	5700	111.2	-	-	100.69	33.1	11.2	33.79	100	119	A	V
		5736.36	56.81	-11.39	68.2	46.05	33.39	11.19	33.82	100	119	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. 0+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	47.75	-26.25	74	57.81	39	17.94	67	-	-	P	H
		16500	51.67	-16.53	68.2	56.75	38.4	23.35	66.83	100	172	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11000	47.91	-26.09	74	57.97	39	17.94	67	-	-	P	V
		16500	54.92	-13.28	68.2	60	38.4	23.35	66.83	100	39	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+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)
		11160	47.78	-26.22	74	57.27	39.1	18.26	66.85	-	-	P	H
		16740	52.04	-16.16	68.2	57.35	38.04	23.44	66.79	100	186	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 116 5580MHz													H
		11160	47.52	-26.48	74	57.01	39.1	18.26	66.85	-	-	P	V
		16740	52.29	-15.91	68.2	57.6	38.04	23.44	66.79	100	25	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+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)
		11400	51.44	-22.56	74	60.01	39.3	18.75	66.62	298	158	P	H
		11400	40.65	-13.35	54	49.22	39.3	18.75	66.62	298	158	A	H
		17100	50.94	-17.26	68.2	56.46	37.8	23.64	66.96	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 140 5700MHz		11400	50.99	-23.01	74	59.56	39.3	18.75	66.62	300	108	P	V
		11400	40.44	-13.56	54	49.01	39.3	18.75	66.62	300	108	A	V
		17100	50.58	-17.62	68.2	56.1	37.8	23.64	66.96	-	-	P	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 802.11ac VHT160 (Band Edge @ 3m)

WIFI Ant. 0+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)
802.11ac VHT160 CH 114 5570MHz		5454	56.59	-17.41	74	45.59	33.01	11.66	33.67	100	130	P	H
		5461.54	56.19	-12.01	68.2	45.22	33.02	11.62	33.67	100	130	P	H
		5458.68	47.65	-6.35	54	36.67	33.02	11.63	33.67	100	130	A	H
	*	5570	101.82	-	-	91.1	33.14	11.29	33.71	100	130	P	H
	*	5570	91.6	-	-	80.88	33.14	11.29	33.71	100	130	A	H
		5730.665	62.28	-5.92	68.2	51.55	33.35	11.19	33.81	100	130	P	H
		5455.04	61.32	-12.68	74	50.33	33.01	11.65	33.67	100	119	P	V
		5462.58	61.37	-6.83	68.2	50.4	33.03	11.61	33.67	100	119	P	V
		5455.56	52.37	-1.63	54	41.38	33.01	11.65	33.67	100	119	A	V
	*	5570	109.02	-	-	98.3	33.14	11.29	33.71	100	119	P	V
	*	5570	101.58	-	-	90.86	33.14	11.29	33.71	100	119	A	V
		5728.145	66.9	-1.3	68.2	56.19	33.33	11.19	33.81	100	119	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ac VHT160 (Harmonic @ 3m)

WIFI Ant. 0+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)
		11140	47.54	-26.46	74	57.11	39.08	18.22	66.87	-	-	P	H
		16710	51.61	-16.59	68.2	56.81	38.16	23.43	66.79	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ac													H
VHT160													H
CH 114		11140	47.61	-26.39	74	57.18	39.08	18.22	66.87	-	-	P	V
5570MHz		16710	51.29	-16.91	68.2	56.49	38.16	23.43	66.79	-	-	P	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 3 5470~5725MHz

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

WIFI Ant. 0+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)
		5379.6	52.59	-21.41	74	41.29	33.14	11.84	33.68	100	136	P	H
		5467.76	53.26	-14.94	68.2	42.31	33.04	11.58	33.67	100	136	P	H
		5459.12	44.65	-9.35	54	33.67	33.02	11.63	33.67	100	136	A	H
	*	5500	111.69	-	-	100.85	33.1	11.4	33.66	100	136	P	H
802.11ax	*	5500	106	-	-	95.16	33.1	11.4	33.66	100	136	A	H
HE20 Full		5451.28	55.54	-18.46	74	44.54	33	11.67	33.67	100	121	P	V
CH 100		5466.96	57.02	-11.18	68.2	46.07	33.03	11.59	33.67	100	121	P	V
5500MHz		5458.8	47.63	-6.37	54	36.65	33.02	11.63	33.67	100	121	A	V
	*	5500	121.38	-	-	110.54	33.1	11.4	33.66	100	121	P	V
	*	5500	112.09	-	-	101.25	33.1	11.4	33.66	100	121	A	V
													V
													V
		5350.24	53.13	-20.87	74	41.94	33.2	11.68	33.69	101	132	P	H
		5466.16	52.12	-16.08	68.2	41.17	33.03	11.59	33.67	101	132	P	H
		5425.84	44.68	-9.32	54	33.48	33.05	11.82	33.67	101	132	A	H
	*	5580	113.17	-	-	102.45	33.16	11.27	33.71	101	132	P	H
802.11ax	*	5580	104.8	-	-	94.08	33.16	11.27	33.71	101	132	A	H
HE20 Full		5747.675	56.26	-11.94	68.2	45.42	33.48	11.18	33.82	101	132	P	H
CH 116		5426.56	53.9	-20.1	74	42.71	33.05	11.81	33.67	101	122	P	V
5580MHz		5467.36	53.59	-14.61	68.2	42.65	33.03	11.58	33.67	101	122	P	V
		5425.12	46.49	-7.51	54	35.29	33.05	11.82	33.67	101	122	A	V
	*	5580	119.37	-	-	108.65	33.16	11.27	33.71	101	122	P	V
	*	5580	111.98	-	-	101.26	33.16	11.27	33.71	101	122	A	V
		5760.275	55.79	-12.41	68.2	44.86	33.58	11.18	33.83	101	122	P	V

	*	5698	110.4	-	-	99.89	33.1	11.2	33.79	100	134	P	H
	*	5700	103.19	-	-	92.68	33.1	11.2	33.79	100	134	A	H
		5725.08	55.97	-12.23	68.2	45.29	33.3	11.19	33.81	100	134	P	H
													H
802.11ax													H
HE20 Full													H
CH 140	*	5700	116.07	-	-	105.56	33.1	11.2	33.79	100	119	P	V
5700MHz	*	5700	109.76	-	-	99.25	33.1	11.2	33.79	100	119	A	V
		5725.08	59.28	-8.92	68.2	48.6	33.3	11.19	33.81	100	119	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. 0+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)
		11000	47.47	-26.53	74	57.53	39	17.94	67	-	-	P	H
		16500	53.22	-14.98	68.2	58.3	38.4	23.35	66.83	100	182	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 100		11000	47.99	-26.01	74	58.05	39	17.94	67	-	-	P	V
5500MHz		16500	54.41	-13.79	68.2	59.49	38.4	23.35	66.83	100	22	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+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)
		11160	48.47	-25.53	74	57.96	39.1	18.26	66.85	100	120	P	H
		11160	39.22	-14.78	54	48.71	39.1	18.26	66.85	100	120	A	H
		16740	52.19	-16.01	68.2	57.5	38.04	23.44	66.79	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 116		11160	47.3	-26.7	74	56.79	39.1	18.26	66.85	-	-	P	V
5580MHz		16740	51.67	-16.53	68.2	56.98	38.04	23.44	66.79	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+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)
		11400	49.77	-24.23	74	58.34	39.3	18.75	66.62	-	-	P	H
		17100	50.48	-17.72	68.2	56	37.8	23.64	66.96	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 140		11400	50.47	-23.53	74	59.04	39.3	18.75	66.62	-	-	P	V
5700MHz		17100	50.63	-17.57	68.2	56.15	37.8	23.64	66.96	-	-	P	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 3 5470~5725MHz

WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

WIFI Ant. 0+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)
		5455.12	54.94	-19.06	74	43.95	33.01	11.65	33.67	121	132	P	H
		5461.84	58.49	-9.71	68.2	47.53	33.02	11.61	33.67	121	132	P	H
		5458.48	44.04	-9.96	54	33.06	33.02	11.63	33.67	121	132	A	H
802.11ax	*	5500	111.07	-	-	100.23	33.1	11.4	33.66	121	132	P	H
HE20	*	5500	103.62	-	-	92.78	33.1	11.4	33.66	121	132	A	H
Partial		5458.8	63.61	-10.39	74	52.63	33.02	11.63	33.67	100	121	P	V
106/53		5467.44	64.32	-3.88	68.2	53.38	33.03	11.58	33.67	100	121	P	V
CH 100		5458.8	45.33	-8.67	54	34.35	33.02	11.63	33.67	100	121	A	V
5500MHz	*	5500	117.35	-	-	106.51	33.1	11.4	33.66	100	121	P	V
	*	5500	111.06	-	-	100.22	33.1	11.4	33.66	100	121	A	V
													V
													V
	*	5700	109.18	-	-	98.67	33.1	11.2	33.79	305	126	P	H
	*	5700	100.66	-	-	90.15	33.1	11.2	33.79	305	126	A	H
		5725.48	61.12	-7.08	68.2	50.44	33.3	11.19	33.81	305	126	P	H
802.11ax													H
HE20													H
Partial													H
106/54	*	5700	118.03	-	-	107.52	33.1	11.2	33.79	100	121	P	V
CH 140	*	5700	109.26	-	-	98.75	33.1	11.2	33.79	100	121	A	V
5700MHz		5728.2	65.6	-2.6	68.2	54.89	33.33	11.19	33.81	100	121	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 HE40 Full (Band Edge @ 3m)

WIFI Ant. 0+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)
		5456.08	61.61	-12.39	74	50.62	33.01	11.65	33.67	100	129	P	H
		5468.8	59.46	-8.74	68.2	48.52	33.04	11.57	33.67	100	129	P	H
		5456.08	46.02	-7.98	54	35.03	33.01	11.65	33.67	100	129	A	H
	*	5510	111.25	-	-	100.44	33.1	11.38	33.67	100	129	P	H
802.11ax	*	5510	103.98	-	-	93.17	33.1	11.38	33.67	100	129	A	H
HE40 Full		5738.225	55.56	-12.64	68.2	44.79	33.41	11.18	33.82	100	129	P	H
CH 102		5458	61.49	-12.51	74	50.5	33.02	11.64	33.67	100	121	P	V
5510MHz		5467.36	65.55	-2.65	68.2	54.61	33.03	11.58	33.67	100	121	P	V
		5459.44	49.85	-4.15	54	38.87	33.02	11.63	33.67	100	121	A	V
	*	5510	116.94	-	-	106.13	33.1	11.38	33.67	100	121	P	V
	*	5510	110.11	-	-	99.3	33.1	11.38	33.67	100	121	A	V
		5746.415	57.6	-10.6	68.2	46.77	33.47	11.18	33.82	100	121	P	V
		5456.32	53.72	-20.28	74	42.74	33.01	11.64	33.67	289	125	P	H
		5467.84	52.96	-15.24	68.2	42.01	33.04	11.58	33.67	289	125	P	H
		5459.44	44.74	-9.26	54	33.76	33.02	11.63	33.67	289	125	A	H
	*	5550	107.05	-	-	96.32	33.1	11.32	33.69	289	125	P	H
802.11ax	*	5550	99.26	-	-	88.53	33.1	11.32	33.69	289	125	A	H
HE40 Full		5740.115	58.46	-9.74	68.2	47.68	33.42	11.18	33.82	289	125	P	H
CH 110		5427.04	55.68	-18.32	74	44.49	33.05	11.81	33.67	100	121	P	V
5550MHz		5463.52	54.72	-13.48	68.2	43.76	33.03	11.6	33.67	100	121	P	V
		5455.6	46.79	-7.21	54	35.8	33.01	11.65	33.67	100	121	A	V
	*	5550	115.81	-	-	105.08	33.1	11.32	33.69	100	121	P	V
	*	5550	109.44	-	-	98.71	33.1	11.32	33.69	100	121	A	V
		5757.125	54.86	-13.34	68.2	43.95	33.56	11.18	33.83	100	121	P	V

		5411.6	52.06	-21.94	74	40.76	33.08	11.9	33.68	100	135	P	H
		5467.25	50.71	-17.49	68.2	39.77	33.03	11.58	33.67	100	135	P	H
		5401.1	44.08	-9.92	54	32.71	33.1	11.95	33.68	100	135	A	H
	*	5670	109.01	-	-	98.41	33.16	11.21	33.77	100	135	P	H
802.11ax	*	5670	103.22	-	-	92.62	33.16	11.21	33.77	100	135	A	H
HE40 Full		5730	54.94	-13.26	68.2	44.22	33.34	11.19	33.81	100	135	P	H
CH 134		5429.1	52.34	-21.66	74	41.17	33.04	11.8	33.67	100	118	P	V
5670MHz		5464.1	50.83	-17.37	68.2	39.87	33.03	11.6	33.67	100	118	P	V
		5424.2	44.32	-9.68	54	33.13	33.05	11.82	33.68	100	118	A	V
	*	5670	114.37	-	-	103.77	33.16	11.21	33.77	100	118	P	V
	*	5670	108.59	-	-	97.99	33.16	11.21	33.77	100	118	A	V
		5725	57.17	-11.03	68.2	46.49	33.3	11.19	33.81	100	118	P	V

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

Band 3 5470~5725MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 0+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)
		11020	49.17	-24.83	74	59.21	38.96	17.98	66.98	102	304	P	H
		11020	40.08	-13.92	54	50.12	38.96	17.98	66.98	102	304	A	H
		16530	52.76	-15.44	68.2	57.94	38.28	23.36	66.82	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 102		11020	48.64	-25.36	74	58.68	38.96	17.98	66.98	100	62	P	V
5510MHz		11020	40.64	-13.36	54	50.68	38.96	17.98	66.98	100	62	A	V
		16530	51.81	-16.39	68.2	56.99	38.28	23.36	66.82	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+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)
		11100	47.93	-26.07	74	57.7	39	18.14	66.91	-	-	P	H
		16650	51.05	-17.15	68.2	56.25	38.2	23.4	66.8	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 110		11100	47.8	-26.2	74	57.57	39	18.14	66.91	-	-	P	V
5550MHz		16650	51.28	-16.92	68.2	56.48	38.2	23.4	66.8	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+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)
		11340	48.82	-25.18	74	57.67	39.2	18.63	66.68	100	96	P	H
		11340	39.82	-14.18	54	48.67	39.2	18.63	66.68	100	96	A	H
		17010	50.19	-18.01	68.2	55.66	37.74	23.55	66.76	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 134		11340	48.76	-25.24	74	57.61	39.2	18.63	66.68	100	35	P	V
5670MHz		11340	39.76	-14.24	54	48.61	39.2	18.63	66.68	100	35	A	V
		17010	51.33	-16.87	68.2	56.8	37.74	23.55	66.76	-	-	P	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 802.11ax HE40 Partial 242 (Band Edge @ 3m)

WIFI Ant. 0+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)
		5350.24	53.53	-20.47	74	42.34	33.2	11.68	33.69	257	130	P	H
		5467.6	56.69	-11.51	68.2	45.74	33.04	11.58	33.67	257	130	P	H
		5402.32	44.52	-9.48	54	33.15	33.1	11.95	33.68	257	130	A	H
802.11ax	*	5510	109.3	-	-	98.49	33.1	11.38	33.67	257	130	P	H
HE40	*	5510	101.86	-	-	91.05	33.1	11.38	33.67	257	130	A	H
Partial		5748.62	57.05	-11.15	68.2	46.2	33.49	11.18	33.82	257	130	P	H
242/61		5458	64.22	-9.78	74	53.23	33.02	11.64	33.67	100	119	P	V
CH 102		5469.04	65.69	-2.51	68.2	54.75	33.04	11.57	33.67	100	119	P	V
5510MHz		5458.72	46.4	-7.6	54	35.42	33.02	11.63	33.67	100	119	A	V
	*	5510	115.31	-	-	104.5	33.1	11.38	33.67	100	119	P	V
	*	5510	107.29	-	-	96.48	33.1	11.38	33.67	100	119	A	V
		5738.855	55.64	-12.56	68.2	44.87	33.41	11.18	33.82	100	119	P	V
		5350.35	53.49	-20.51	74	42.3	33.2	11.68	33.69	299	120	P	H
		5464.45	51.81	-16.39	68.2	40.85	33.03	11.6	33.67	299	120	P	H
		5401.1	44.06	-9.94	54	32.69	33.1	11.95	33.68	299	120	A	H
802.11ax	*	5670	103.82	-	-	93.22	33.16	11.21	33.77	299	120	P	H
HE40	*	5670	95.47	-	-	84.87	33.16	11.21	33.77	299	120	A	H
Partial		5725.975	58.02	-10.18	68.2	47.33	33.31	11.19	33.81	299	120	P	H
242/62		5397.6	54.04	-19.96	74	42.67	33.1	11.95	33.68	100	125	P	V
CH 134		5470	53.2	-15	68.2	42.26	33.04	11.57	33.67	100	125	P	V
5670MHz		5399	44.24	-9.76	54	32.87	33.1	11.95	33.68	100	125	A	V
	*	5670	115.32	-	-	104.72	33.16	11.21	33.77	100	125	P	V
	*	5670	105.63	-	-	95.03	33.16	11.21	33.77	100	125	A	V
		5728.25	64.05	-4.15	68.2	53.34	33.33	11.19	33.81	100	125	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 (Band Edge @ 3m)

WIFI Ant. 0+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)
		5443.6	53.8	-20.2	74	42.74	33.01	11.72	33.67	100	157	P	H
		5462.56	55.34	-12.86	68.2	44.37	33.03	11.61	33.67	100	157	P	H
		5454.88	45.47	-8.53	54	34.48	33.01	11.65	33.67	100	157	A	H
	*	5530	106.11	-	-	95.34	33.1	11.35	33.68	100	157	P	H
802.11ax	*	5530	100.59	-	-	89.82	33.1	11.35	33.68	100	157	A	H
HE80 Full		5748.305	56.76	-11.44	68.2	45.91	33.49	11.18	33.82	100	157	P	H
CH 106		5456.32	58.55	-15.45	74	47.57	33.01	11.64	33.67	110	119	P	V
5530MHz		5466.88	59.72	-8.48	68.2	48.77	33.03	11.59	33.67	110	119	P	V
		5458	51.07	-2.93	54	40.08	33.02	11.64	33.67	110	119	A	V
	*	5530	113.23	-	-	102.46	33.1	11.35	33.68	110	119	P	V
	*	5530	107.54	-	-	96.77	33.1	11.35	33.68	110	119	A	V
		5747.045	56.01	-12.19	68.2	45.17	33.48	11.18	33.82	110	119	P	V
		5405.9	52.11	-21.89	74	40.77	33.09	11.93	33.68	100	130	P	H
		5467.26	51.29	-16.91	68.2	40.35	33.03	11.58	33.67	100	130	P	H
		5400.7	43.59	-10.41	54	32.21	33.1	11.96	33.68	100	130	A	H
	*	5610	107.38	-	-	96.67	33.2	11.24	33.73	100	130	P	H
802.11ax	*	5610	100.58	-	-	89.87	33.2	11.24	33.73	100	130	A	H
HE80 Full		5760.275	52.26	-15.94	68.2	41.33	33.58	11.18	33.83	100	130	P	H
CH 122		5392.9	52.92	-21.08	74	41.57	33.11	11.92	33.68	104	118	P	V
5610MHz		5465.18	53.12	-15.08	68.2	42.17	33.03	11.59	33.67	104	118	P	V
		5455.82	45.24	-8.76	54	34.25	33.01	11.65	33.67	104	118	A	V
	*	5610	114.72	-	-	104.01	33.2	11.24	33.73	104	118	P	V
	*	5610	107.55	-	-	96.84	33.2	11.24	33.73	104	118	A	V
		5748.62	56.14	-12.06	68.2	45.29	33.49	11.18	33.82	104	118	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 0+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)
		11060	47.34	-26.66	74	57.3	38.92	18.06	66.94	-	-	P	H
		16590	51.26	-16.94	68.2	56.56	38.12	23.39	66.81	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 106		11060	47.51	-26.49	74	57.47	38.92	18.06	66.94	-	-	P	V
5530MHz		16590	52.31	-15.89	68.2	57.61	38.12	23.39	66.81	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 0+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)
		11220	47.6	-26.4	74	56.83	39.18	18.38	66.79	-	-	P	H
		16830	52	-16.2	68.2	57.35	37.94	23.48	66.77	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 122		11220	47.82	-26.18	74	57.05	39.18	18.38	66.79	-	-	P	V
5610MHz		16830	51.15	-17.05	68.2	56.5	37.94	23.48	66.77	-	-	P	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 3 5470~5725MHz

WIFI 802.11ax HE80 Partial 484 (Band Edge @ 3m)

WIFI Ant. 0+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)
		5459.44	57.03	-16.97	74	46.05	33.02	11.63	33.67	255	129	P	H
		5468.32	62.49	-5.71	68.2	51.54	33.04	11.58	33.67	255	129	P	H
		5457.76	44.28	-9.72	54	33.29	33.02	11.64	33.67	255	129	A	H
802.11ax	*	5530	105.6	-	-	94.83	33.1	11.35	33.68	255	129	P	H
HE80	*	5530	98.55	-	-	87.78	33.1	11.35	33.68	255	129	A	H
Partial		5751.455	56.73	-11.47	68.2	45.87	33.51	11.18	33.83	255	129	P	H
484/65		5412.16	63.35	-10.65	74	52.06	33.08	11.89	33.68	100	120	P	V
CH 106		5465.92	66.52	-1.68	68.2	55.57	33.03	11.59	33.67	100	120	P	V
5530MHz		5459.92	45.85	-8.15	54	34.88	33.02	11.62	33.67	100	120	A	V
	*	5530	111.71	-	-	100.94	33.1	11.35	33.68	100	120	P	V
	*	5530	104.05	-	-	93.28	33.1	11.35	33.68	100	120	A	V
		5740.745	57.39	-10.81	68.2	46.6	33.43	11.18	33.82	100	120	P	V
		5413.96	54.19	-19.81	74	42.92	33.07	11.88	33.68	247	130	P	H
		5467.78	53.85	-14.35	68.2	42.9	33.04	11.58	33.67	247	130	P	H
		5399.66	44.23	-9.77	54	32.85	33.1	11.96	33.68	247	130	A	H
802.11ax	*	5610	106.23	-	-	95.52	33.2	11.24	33.73	247	130	P	H
HE80	*	5610	98.09	-	-	87.38	33.2	11.24	33.73	247	130	A	H
Partial		5745.47	56.27	-11.93	68.2	45.45	33.46	11.18	33.82	247	130	P	H
484/66		5459.2	60.25	-13.75	74	49.27	33.02	11.63	33.67	100	118	P	V
CH 122		5468.82	61.33	-6.87	68.2	50.39	33.04	11.57	33.67	100	118	P	V
5610MHz		5433.98	45.14	-8.86	54	34.01	33.03	11.77	33.67	100	118	A	V
	*	5610	113.1	-	-	102.39	33.2	11.24	33.73	100	118	P	V
	*	5610	104.43	-	-	93.72	33.2	11.24	33.73	100	118	A	V
		5757.755	63.66	-4.54	68.2	52.75	33.56	11.18	33.83	100	118	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

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

WIFI Ant. 0+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)
802.11ax HE160 Full CH 114 5570MHz		5453.68	55.2	-18.8	74	44.2	33.01	11.66	33.67	100	132	P	H
		5463.76	54.63	-13.57	68.2	43.67	33.03	11.6	33.67	100	132	P	H
		5456.56	47.41	-6.59	54	36.43	33.01	11.64	33.67	100	132	A	H
	*	5570	102.85	-	-	92.13	33.14	11.29	33.71	100	132	P	H
	*	5570	95.61	-	-	84.89	33.14	11.29	33.71	100	132	A	H
		5729.09	56.48	-11.72	68.2	45.77	33.33	11.19	33.81	100	132	P	H
		5443.84	61.16	-12.84	74	50.11	33.01	11.71	33.67	100	119	P	V
		5464.72	60.13	-8.07	68.2	49.17	33.03	11.6	33.67	100	119	P	V
		5455.12	52.67	-1.33	54	41.68	33.01	11.65	33.67	100	119	A	V
	*	5570	109.71	-	-	98.99	33.14	11.29	33.71	100	119	P	V
	*	5570	102.97	-	-	92.25	33.14	11.29	33.71	100	119	A	V
		5739.8	63.55	-4.65	68.2	52.77	33.42	11.18	33.82	100	119	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 5470~5725MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 0+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)
		11140	47.52	-26.48	74	57.09	39.08	18.22	66.87	-	-	P	H
		16710	51.22	-16.98	68.2	56.42	38.16	23.43	66.79	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 114		11140	47.82	-26.18	74	57.39	39.08	18.22	66.87	-	-	P	V
5570MHz		16710	50.37	-17.83	68.2	55.57	38.16	23.43	66.79	-	-	P	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 3 5470~5725MHz

WIFI 802.11ax HE160 Partial 996 (Band Edge @ 3m)

WIFI Ant. 0+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)
802.11ax HE160 Partial 996/67 CH 114 5570MHz		5457.64	56.55	-17.45	74	45.56	33.02	11.64	33.67	100	129	P	H
		5468.04	53.85	-14.35	68.2	42.9	33.04	11.58	33.67	100	129	P	H
		5448.02	44.35	-9.65	54	33.33	33	11.69	33.67	100	129	A	H
	*	5570	98.28	-	-	87.56	33.14	11.29	33.71	100	129	P	H
	*	5570	90.43	-	-	79.71	33.14	11.29	33.71	100	129	A	H
		5725.94	59.52	-8.68	68.2	48.83	33.31	11.19	33.81	100	129	P	H
		5393.94	60.7	-13.3	74	49.34	33.11	11.93	33.68	100	121	P	V
		5469.86	58.54	-9.66	68.2	47.6	33.04	11.57	33.67	100	121	P	V
		5457.64	46.4	-7.6	54	35.41	33.02	11.64	33.67	100	121	A	V
	*	5570	105.15	-	-	94.43	33.14	11.29	33.71	100	121	P	V
	*	5570	97.34	-	-	86.62	33.14	11.29	33.71	100	121	A	V
		5728.145	64.98	-3.22	68.2	54.27	33.33	11.19	33.81	100	121	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 (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.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		5436.19	52.66	-21.34	74	41.54	33.03	11.76	33.67	100	156	P	H
		5469.34	48.85	-19.35	68.2	37.91	33.04	11.57	33.67	100	156	P	H
		5358.19	43.18	-10.82	54	31.97	33.18	11.72	33.69	100	156	A	H
	*	5720	108.49	-	-	97.85	33.26	11.19	33.81	100	156	P	H
	*	5720	103.63	-	-	92.99	33.26	11.19	33.81	100	156	A	H
		5941.75	55.27	-12.93	68.2	43.22	34.38	11.62	33.95	100	156	P	H
		5420.59	52.86	-21.14	74	41.64	33.06	11.84	33.68	100	118	P	V
		5468.17	50.37	-17.83	68.2	39.42	33.04	11.58	33.67	100	118	P	V
		5413.57	43.42	-10.58	54	32.15	33.07	11.88	33.68	100	118	A	V
	*	5720	118.04	-	-	107.4	33.26	11.19	33.81	100	118	P	V
	*	5720	111.11	-	-	100.47	33.26	11.19	33.81	100	118	A	V
		5936.75	54.38	-13.82	68.2	42.36	34.37	11.6	33.95	100	118	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. 0+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	47.94	-26.06	74	56.48	39.22	18.83	66.59	-	-	P	H
		17160	50.17	-18.03	68.2	55.6	37.96	23.7	67.09	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11440	47.88	-26.12	74	56.42	39.22	18.83	66.59	-	-	P	V
		17160	50.25	-17.95	68.2	55.68	37.96	23.7	67.09	-	-	P	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 3 - Straddle Channel

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

WIFI Ant. 0+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)
802.11ax HE20 Full CH 144 5720MHz		5411.62	51.85	-22.15	74	40.56	33.08	11.89	33.68	100	156	P	H
		5460.76	49.32	-18.88	68.2	38.35	33.02	11.62	33.67	100	156	P	H
		5376.91	43.15	-10.85	54	31.85	33.15	11.83	33.68	100	156	A	H
	*	5720	111.01	-	-	100.37	33.26	11.19	33.81	100	156	P	H
	*	5720	103.61	-	-	92.97	33.26	11.19	33.81	100	156	A	H
		5938	55.11	-13.09	68.2	43.07	34.38	11.61	33.95	100	156	P	H
		5402.26	52.13	-21.87	74	40.76	33.1	11.95	33.68	101	122	P	V
		5463.88	50.58	-17.62	68.2	39.62	33.03	11.6	33.67	101	122	P	V
		5407.33	43.39	-10.61	54	32.06	33.09	11.92	33.68	101	122	A	V
	*	5720	116.08	-	-	105.44	33.26	11.19	33.81	101	122	P	V
	*	5720	110.62	-	-	99.98	33.26	11.19	33.81	101	122	A	V
		5874.75	54.58	-13.62	68.2	42.84	34.25	11.4	33.91	101	122	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)

WIFI Ant. 0+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)
		11440	47.56	-26.44	74	56.1	39.22	18.83	66.59	-	-	P	H
		17160	50.32	-17.88	68.2	55.75	37.96	23.7	67.09	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 144		11440	47.72	-26.28	74	56.26	39.22	18.83	66.59	-	-	P	V
5720MHz		17160	50.51	-17.69	68.2	55.94	37.96	23.7	67.09	-	-	P	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 3 - Straddle Channel

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

WIFI Ant. 0+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)
802.11ax HE40 Full CH 142 5710MHz		5408.5	52.6	-21.4	74	41.29	33.08	11.91	33.68	100	156	P	H
		5464.27	51.05	-17.15	68.2	40.09	33.03	11.6	33.67	100	156	P	H
		5358.97	43.17	-10.83	54	31.95	33.18	11.73	33.69	100	156	A	H
	*	5710	107.01	-	-	96.43	33.18	11.2	33.8	100	156	P	H
	*	5710	100.35	-	-	89.77	33.18	11.2	33.8	100	156	A	H
		5897.5	55.88	-12.32	68.2	44.03	34.29	11.48	33.92	100	156	P	H
		5369.5	52.2	-21.8	74	40.94	33.16	11.79	33.69	106	118	P	V
		5463.88	51.56	-16.64	68.2	40.6	33.03	11.6	33.67	106	118	P	V
		5397.19	43.39	-10.61	54	32.02	33.11	11.94	33.68	106	118	A	V
	*	5710	114.07	-	-	103.49	33.18	11.2	33.8	106	118	P	V
	*	5710	107.91	-	-	97.33	33.18	11.2	33.8	106	118	A	V
		5854.25	54.25	-13.95	68.2	42.59	34.21	11.34	33.89	106	118	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)

WIFI Ant. 0+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)
		11420	47.71	-26.29	74	56.27	39.26	18.79	66.61	-	-	P	H
		17130	50.01	-18.19	68.2	55.5	37.86	23.67	67.02	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 142		11420	47.63	-26.37	74	56.19	39.26	18.79	66.61	-	-	P	V
5710MHz		17130	50.95	-17.25	68.2	56.44	37.86	23.67	67.02	-	-	P	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 3 Straddle Channel

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

WIFI Ant. 0+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)
802.11ax HE80 Full CH 138 5690MHz		5437.36	51.63	-22.37	74	40.52	33.03	11.75	33.67	100	177	P	H
		5460.76	51.25	-16.95	68.2	40.28	33.02	11.62	33.67	100	177	P	H
		5358.19	43.23	-10.77	54	32.02	33.18	11.72	33.69	100	177	A	H
	*	5690	106.09	-	-	95.56	33.12	11.2	33.79	100	177	P	H
	*	5690	98.97	-	-	88.44	33.12	11.2	33.79	100	177	A	H
		5900.5	53.77	-14.43	68.2	41.9	34.3	11.49	33.92	100	177	P	H
		5402.65	53.93	-20.07	74	42.57	33.09	11.95	33.68	100	118	P	V
		5467.39	51.64	-16.56	68.2	40.7	33.03	11.58	33.67	100	118	P	V
		5456.08	44.19	-9.81	54	33.2	33.01	11.65	33.67	100	118	A	V
	*	5690	113.1	-	-	102.57	33.12	11.2	33.79	100	118	P	V
	*	5690	106.32	-	-	95.79	33.12	11.2	33.79	100	118	A	V
		5855.25	54.81	-13.39	68.2	43.15	34.21	11.34	33.89	100	118	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 3 - Straddle Channel

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 0+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)
		11380	47.76	-26.24	74	56.43	39.26	18.71	66.64	-	-	P	H
		17070	49.4	-18.8	68.2	54.82	37.86	23.61	66.89	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 138		11380	47.48	-26.52	74	56.15	39.26	18.71	66.64	-	-	P	V
5690MHz		17070	49.88	-18.32	68.2	55.3	37.86	23.61	66.89	-	-	P	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.

Emission below 1GHz

5GHz WIFI 802.11ax HE80 (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.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		54.57	28.06	-11.94	40	43.41	12.91	1.56	29.82	-	-	P	H
		86.97	26.62	-13.38	40	39.79	14.75	1.8	29.72	-	-	P	H
		124.5	30.44	-13.06	43.5	40.26	17.65	2.26	29.73	-	-	P	H
		841.1	34.32	-11.68	46	28.63	29.17	5.1	28.58	-	-	P	H
		895.7	37.3	-8.7	46	31.41	29.12	5.26	28.49	-	-	P	H
		959.4	37.68	-8.32	46	29.2	31.15	5.57	28.24	-	-	P	H
													H
													H
													H
													H
5GHz													H
802.11ax													H
HE80		30.54	30.62	-9.38	40	34.6	24.47	1.29	29.74	-	-	P	V
LF		82.65	26.76	-13.24	40	40.56	14.13	1.78	29.71	-	-	P	V
		91.56	26.74	-16.76	43.5	39.37	15.25	1.84	29.72	-	-	P	V
		247.62	29.92	-16.08	46	38.36	18.26	2.81	29.51	-	-	P	V
		895.7	38.7	-7.3	46	32.81	29.12	5.26	28.49	-	-	P	V
		955.2	37.45	-8.55	46	28.97	31.19	5.53	28.24	-	-	P	V
													V
													V
													V
													V
													V
													V

Remark

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

Note symbol

*	**Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is **Margin** line.
P/A	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5150	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		5150	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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

= Leve(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 5150MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Margin (dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54 (dBμV/m) – 54(dBμV/m)

= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

Appendix D. Radiated Spurious Emission Plots

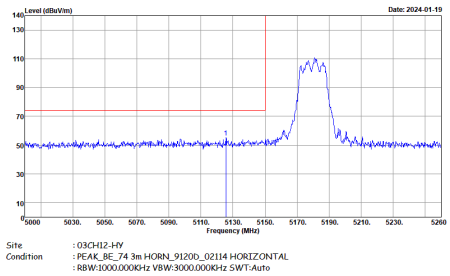
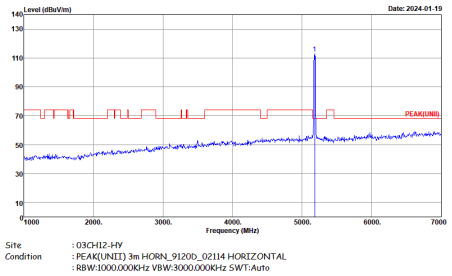
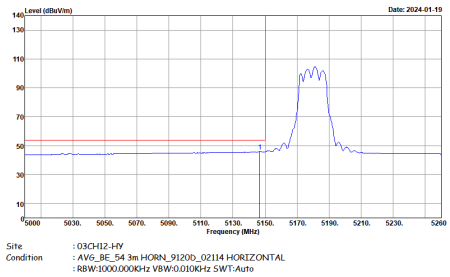
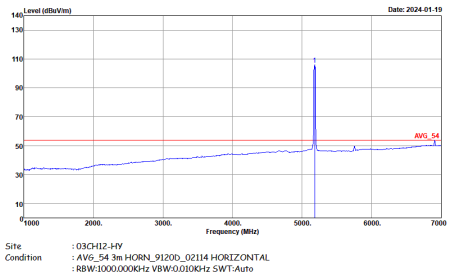
Test Engineer :	Bill Chang, Tim Lee and Wilson Wu	**Temperature :**	20~25°C
		Relative Humidity :	50~60%

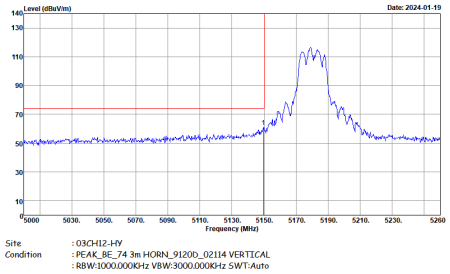
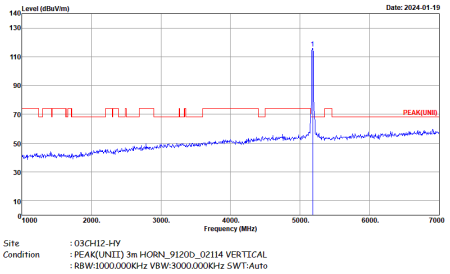
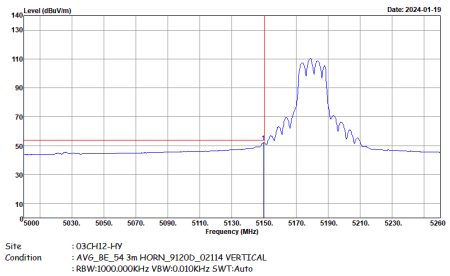
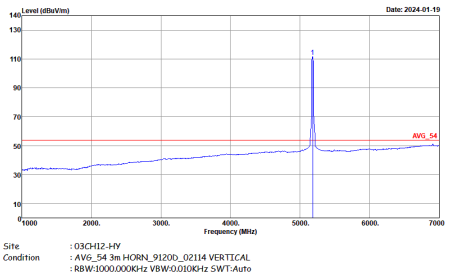
Note symbol

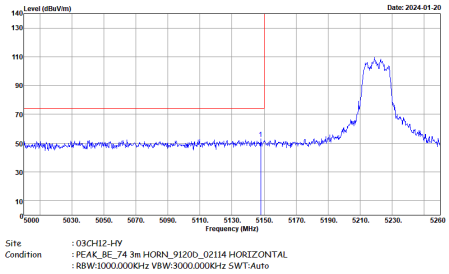
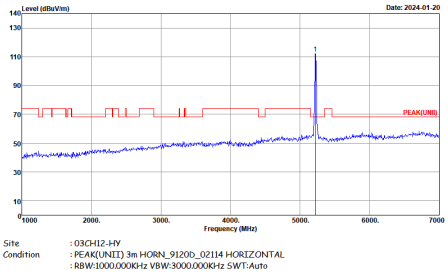
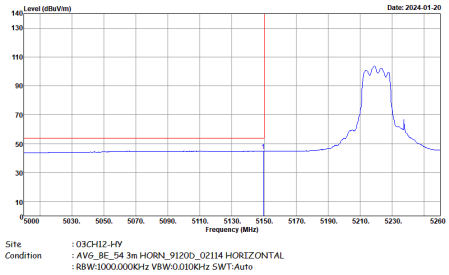
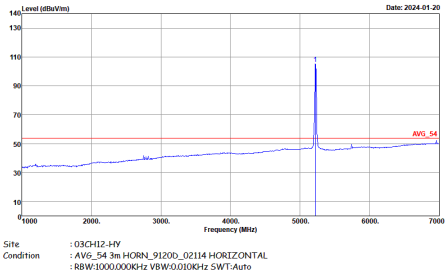
-L	**Low channel location**
-R	**High channel location**

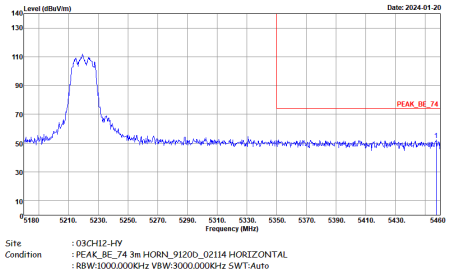
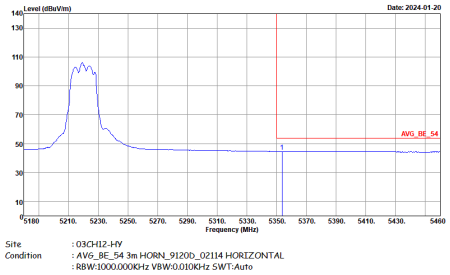
Band 1 - 5150~5250MHz

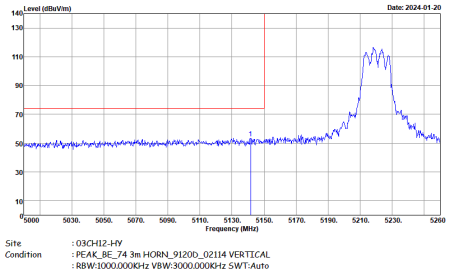
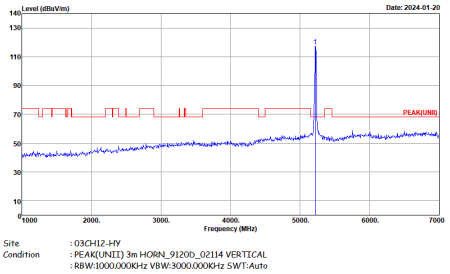
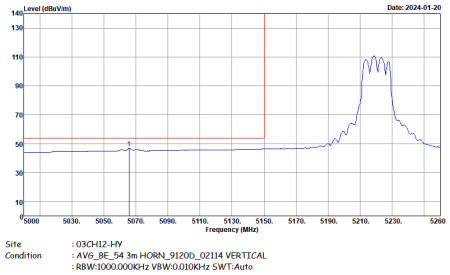
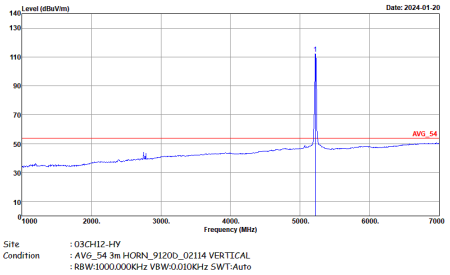
WIFI 802.11a (Band Edge @ 3m)

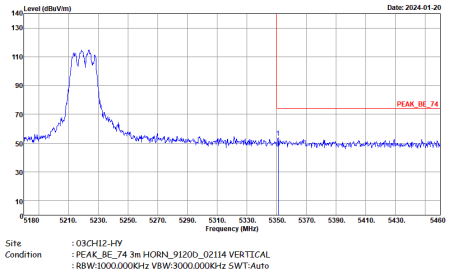
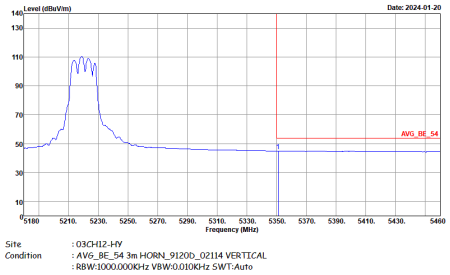
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		

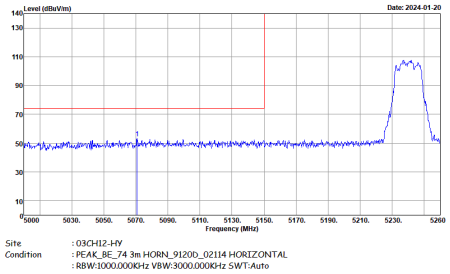
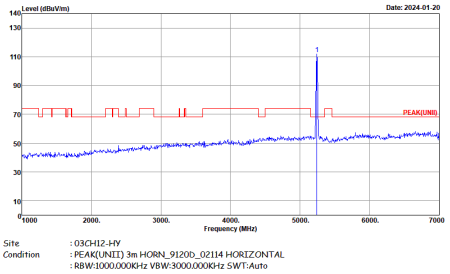
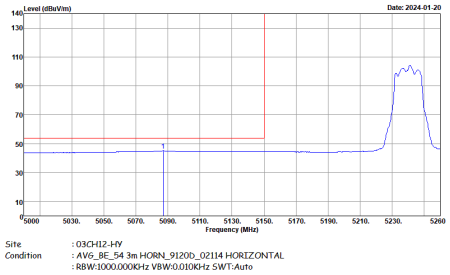
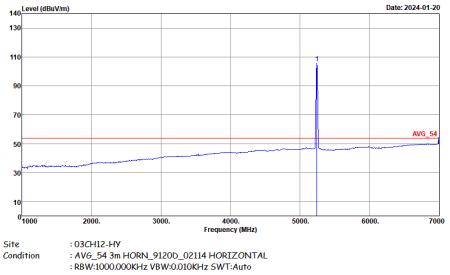
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
0+1	Vertical	Fundamental
Peak		
Avg.		

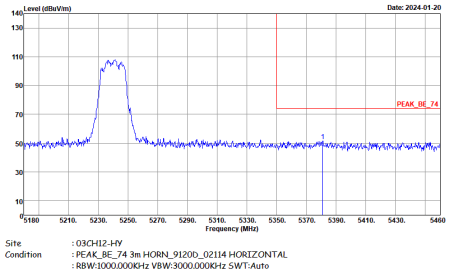
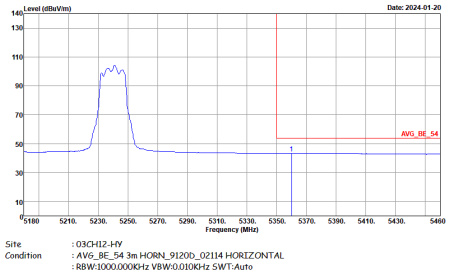
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
0+1	Horizontal	Fundamental
Peak		
Avg.		

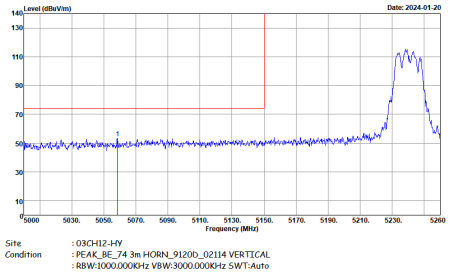
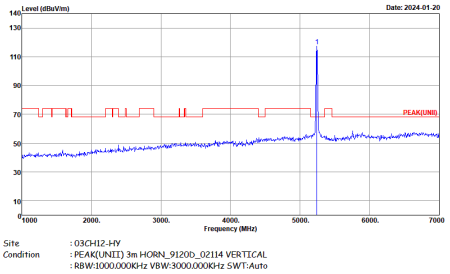
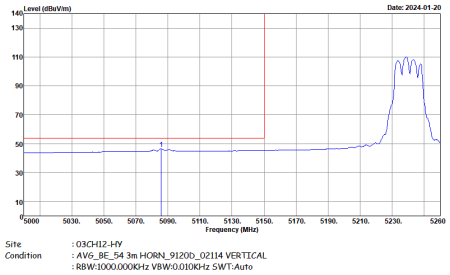
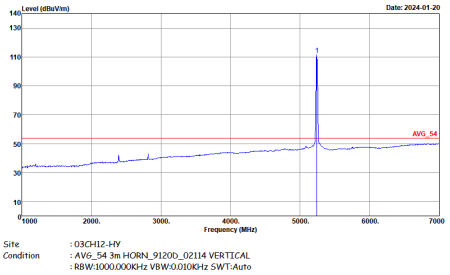
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

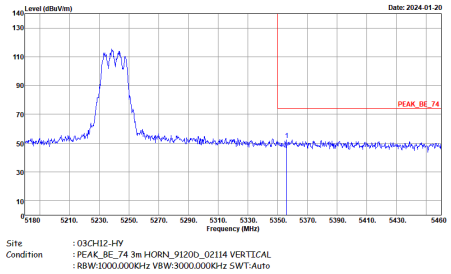
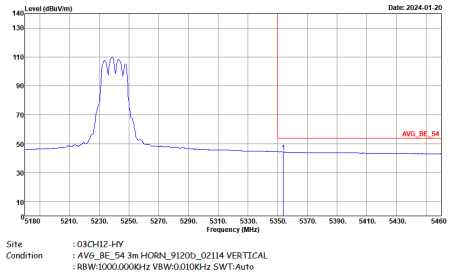
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
0+1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

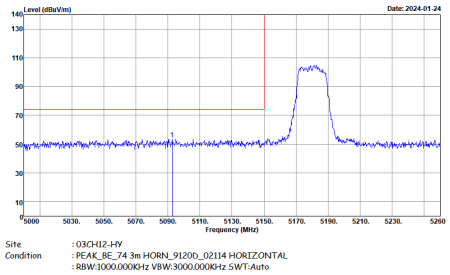
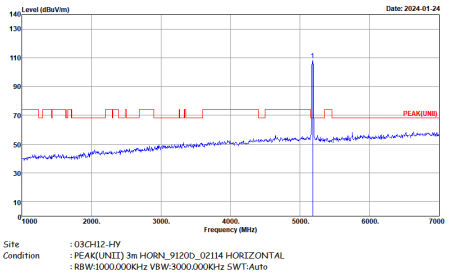
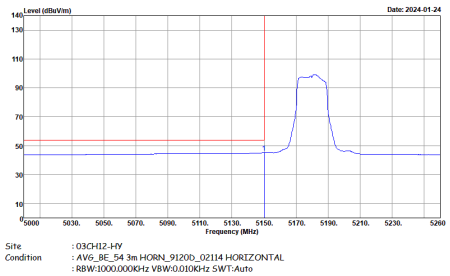
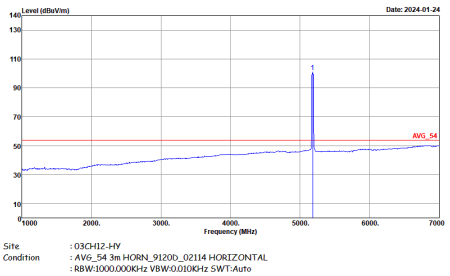
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
0+1	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

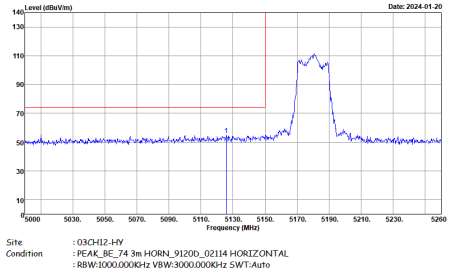
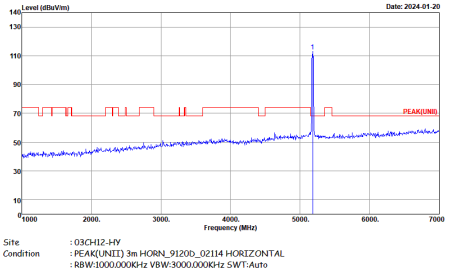
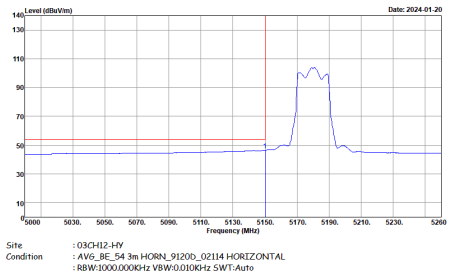
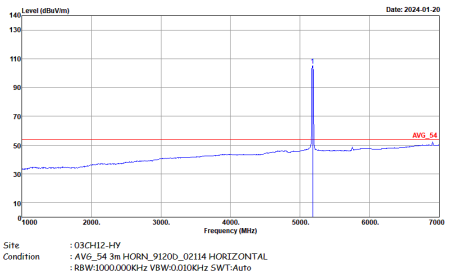
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		

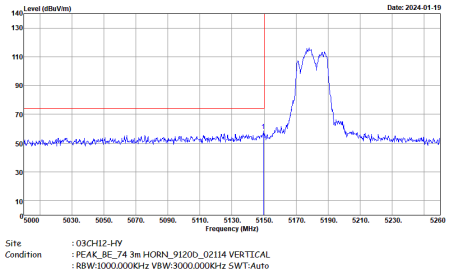
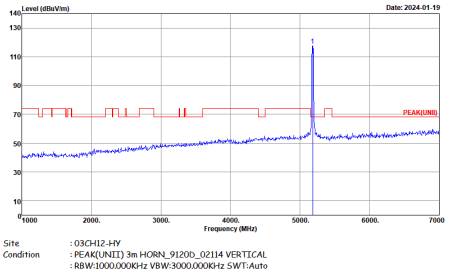
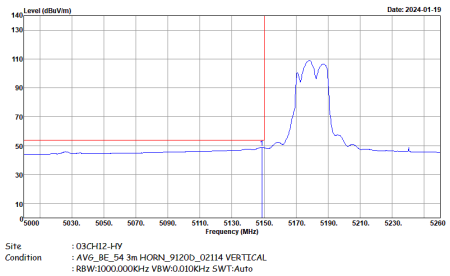
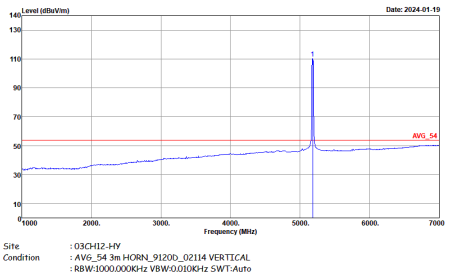
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
0+1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

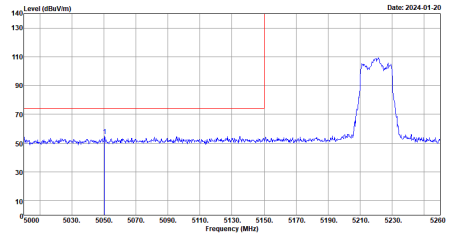
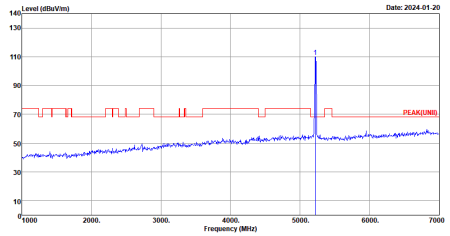
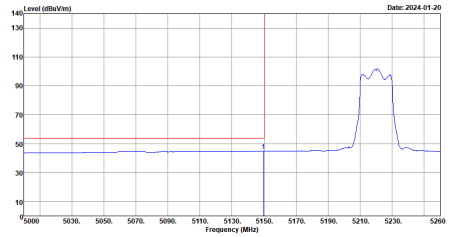
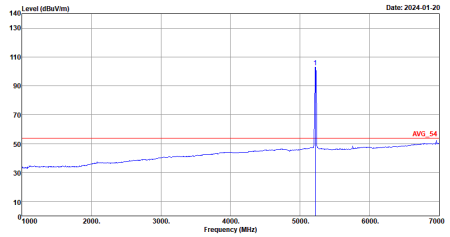
Band 1 5150~5250MHz
WIFI 802.11ac VHT20 (Band Edge @ 3m)

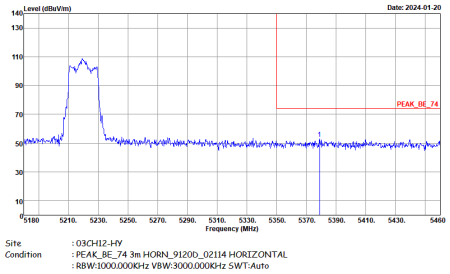
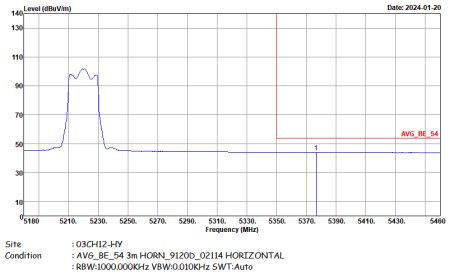
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT20 CH36 5180MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		

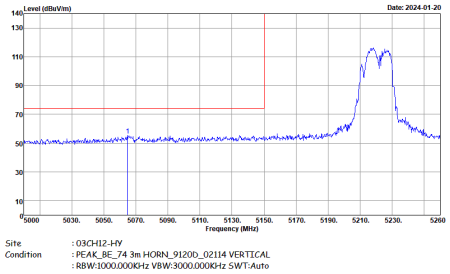
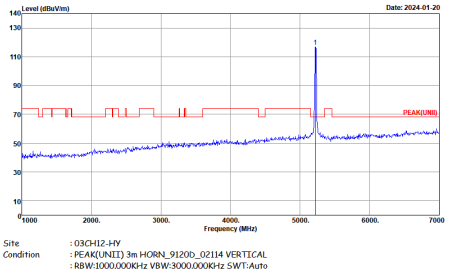
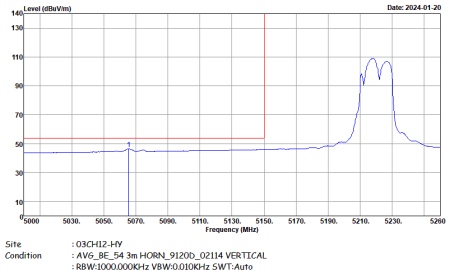
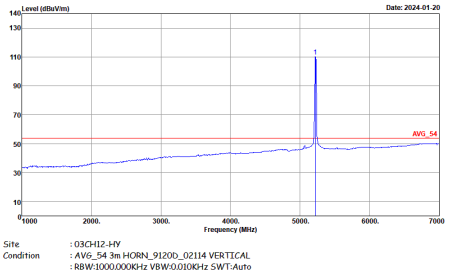
Band 1 5150~5250MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

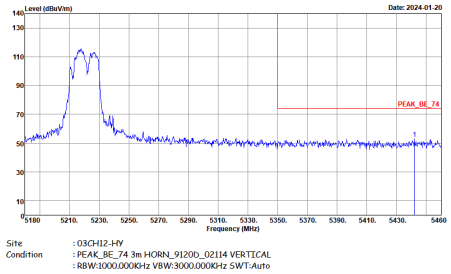
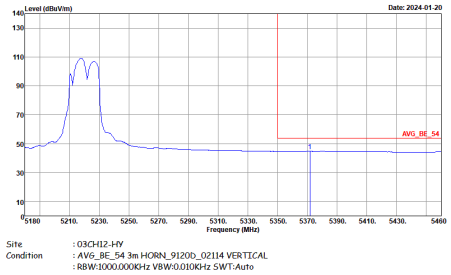
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		

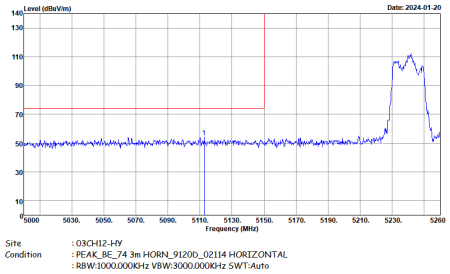
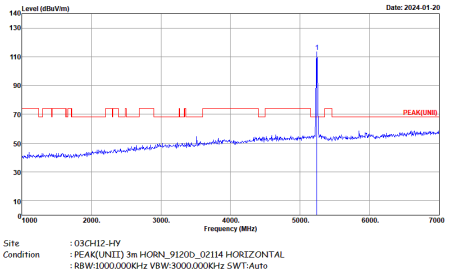
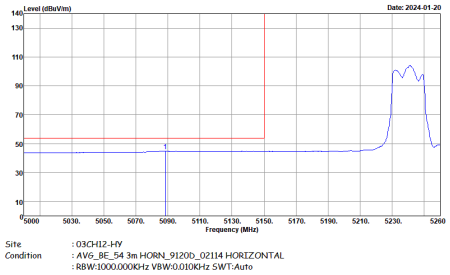
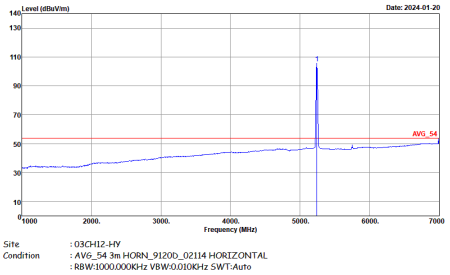
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
0+1	Vertical	Fundamental
Peak		
Avg.		

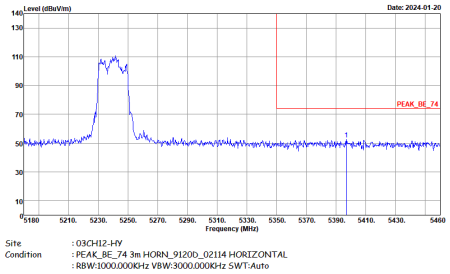
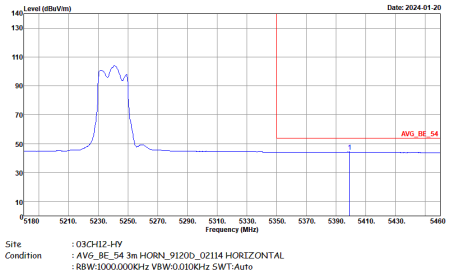
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

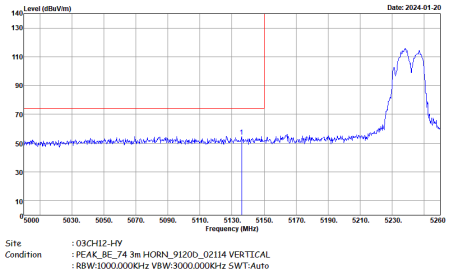
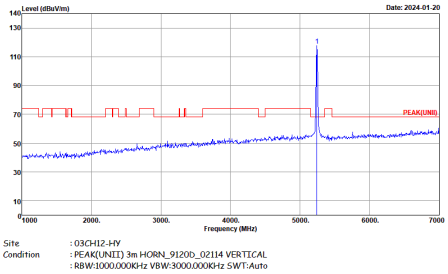
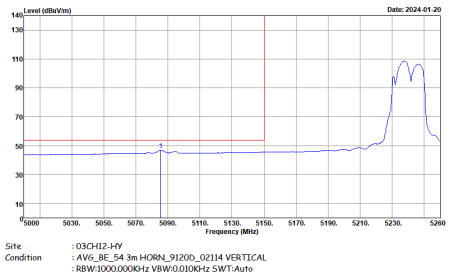
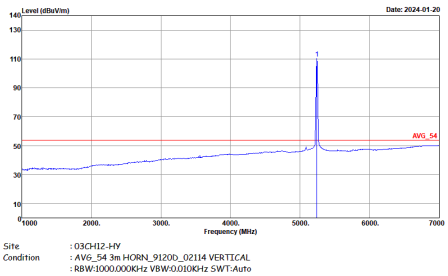
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

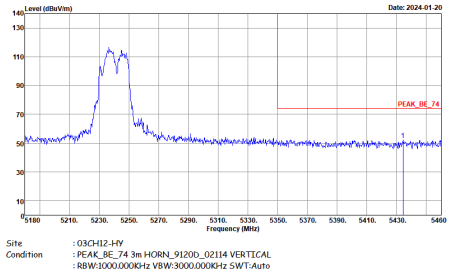
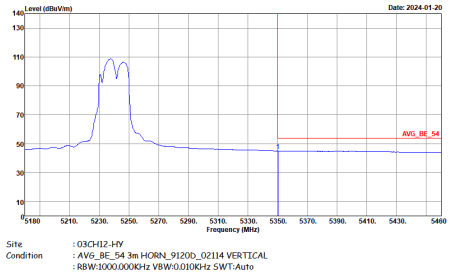
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
0+1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
0+1	Horizontal	Fundamental
Peak		
Avg.		

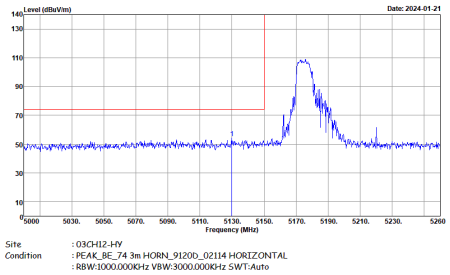
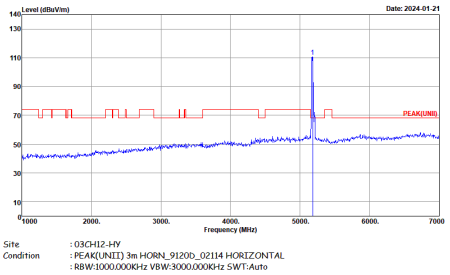
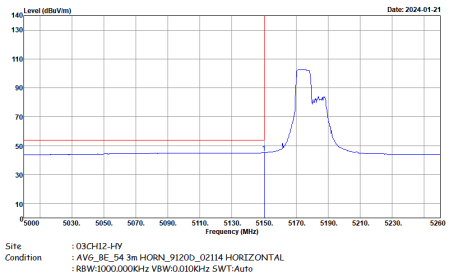
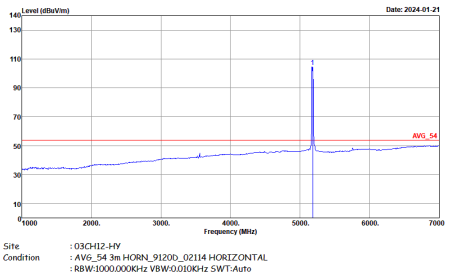
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

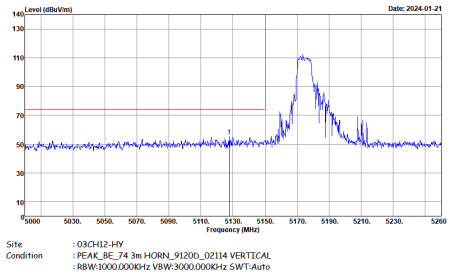
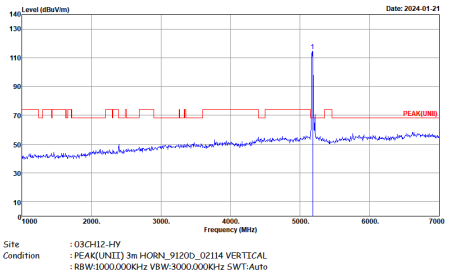
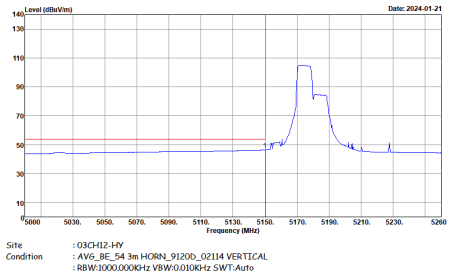
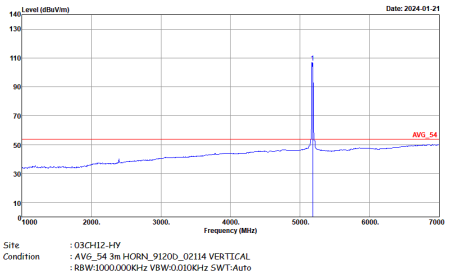
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
0+1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

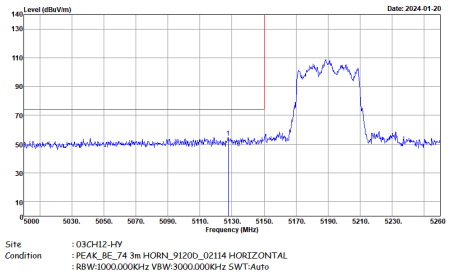
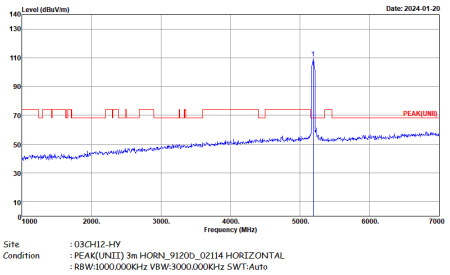
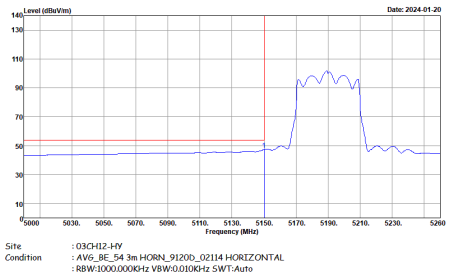
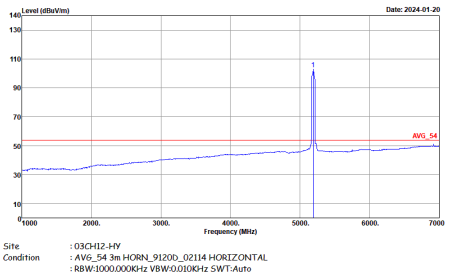
Band 1 5150~5250MHz

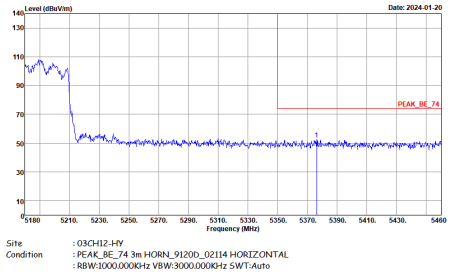
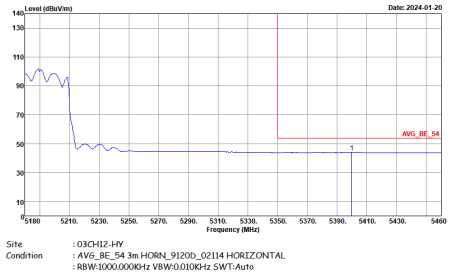
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

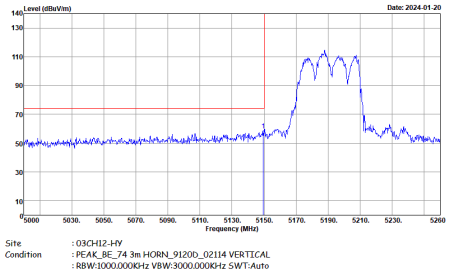
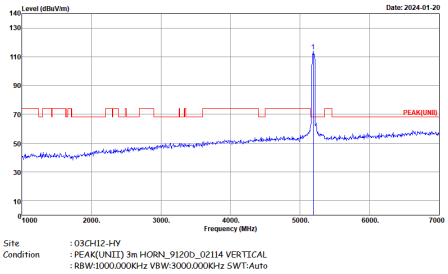
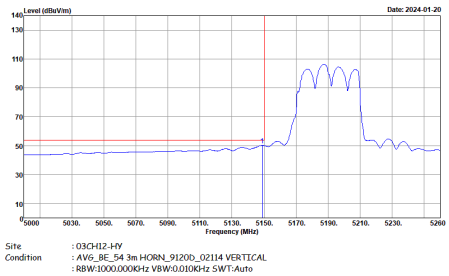
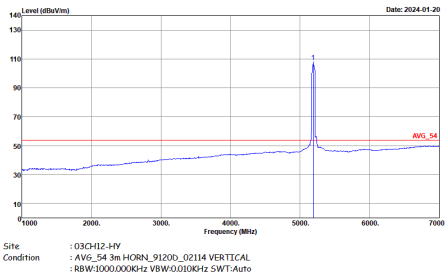
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH36 5180MHz	
0+1	Horizontal	Fundamental
Peak		
Avg.		

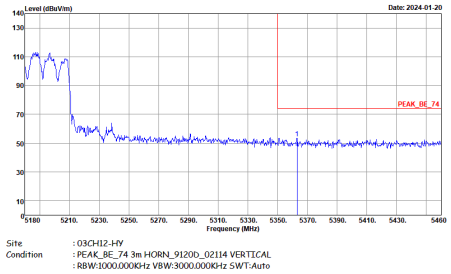
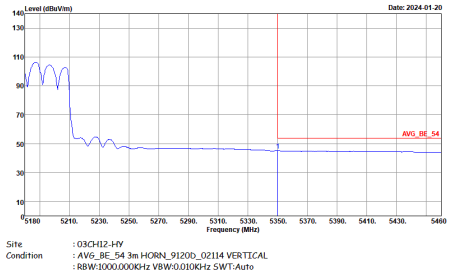
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH36 5180MHz	
0+1	Vertical	Fundamental
Peak		
Avg.		

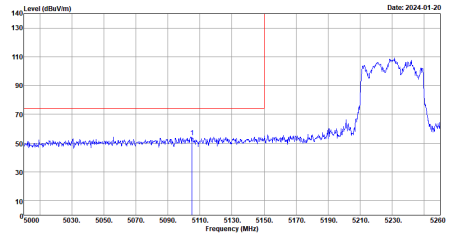
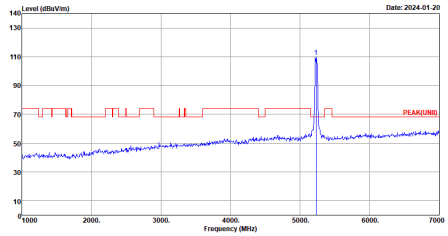
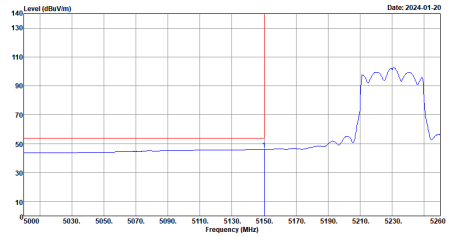
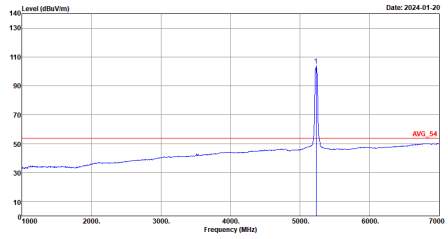
Band 1 5150~5250MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
0+1	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
0+1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
0+1	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
0+1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - L	
0+1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH12-HY Condition : PEAK(UNII) 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto