FCC RADIO TEST REPORT

FCC ID	:	**2AFZZK48G**
Equipment	:	**Mobile Phone**
Brand Name	:	**POCO**
Model Name	:	**2311DRK48G**
Applicant	:	**Xiaomi Communications Co., Ltd. #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085**
Manufacturer	:	**Xiaomi Communications Co., Ltd. #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Sep. 22, 2023 and testing was performed from Sep. 28, 2023 to Oct. 17, 2023. 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

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History of this test report

Report No.	Version	Description	Issue Date
FR392037E	01	Initial issue of report	Nov. 03, 2023

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	3.26 dB under the limit at 5150.00 MHz
3.5	15.207	AC Conducted Emission	Pass	22.31 dB under the limit at 1.63 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: Lewis Ho
Report Producer: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs	GSM/WCDMA/LTE/5G NR, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, NFC and GNSS.
Sample 1	12+512G (Plastic case)
Sample 2	8+256G (Plastic case)
Sample 3	12+512G (PU case)
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna GPS/Glonass/BDS/Galileo/QZSS: PIFA Antenna NFC: FPC + PIFA Antenna

Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain (dBi)	Ant. 5: -1.4 Ant. 18: -1.1
5250 MHz ~ 5350 MHz	Peak Gain (dBi)	Ant. 5: -0.7 Ant. 18: -0.2
5470 MHz ~ 5725 MHz	Peak Gain (dBi)	Ant. 5: -0.6 Ant. 18: 0.0

Remark: The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

1.1.1 Antenna Directional Gain

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 5 (dBi)	Ant 18 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band I	-1.40	-1.10	-1.10	1.76	0.00	0.00
Band II	-0.70	-0.20	-0.20	2.56	0.00	0.00
Band III	-0.60	0.00	0.00	2.72	0.00	0.00

Calculation example:

If a device has two antenna, G_{ANT1}= -1.4dBi; G_{ANT2}=-1.1dBi

Directional gain of power measurement = max(-1.4, -1.1) + 0 = -1.1 dBi

Directional gain of PSD derived from formula which is

10 x log { { [10^ (-1.40 dBi / 20) + 10^ (-1.10 dBi / 20)] ^ 2 } / 2 }

= 1.76 dBi

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

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010 TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY, CO07-HY, 03CH16-HY

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

FCC designation No.: TW3786

1.4 Applicable Standards

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

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

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and 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, 802.11ac mode is smaller than 802.11ax mode, so all other conducted and radiated test is covered by 802.11ax mode.

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

MIMO Mode

Modulation	Data Rate
802.11a	**6 Mbps**
802.11n HT20 (Covered by HE20)	**MCS0**
802.11n HT40 (Covered by HE40)	**MCS0**
802.11ac VHT20 (Covered by HE20)	**MCS0**
802.11ac VHT40 (Covered by HE40)	**MCS0**
802.11ac VHT80 (Covered by HE80)	**MCS0**
802.11ac VHT160 (Covered by HE160)	**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 : Bluetooth Link + WLAN (5GHz) Link + MPEG4 + USB Cable (Charging from AC Adapter) for Sample 1
Remark: For Radiated Test Cases, the tests were performed with Sample 1.	

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

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

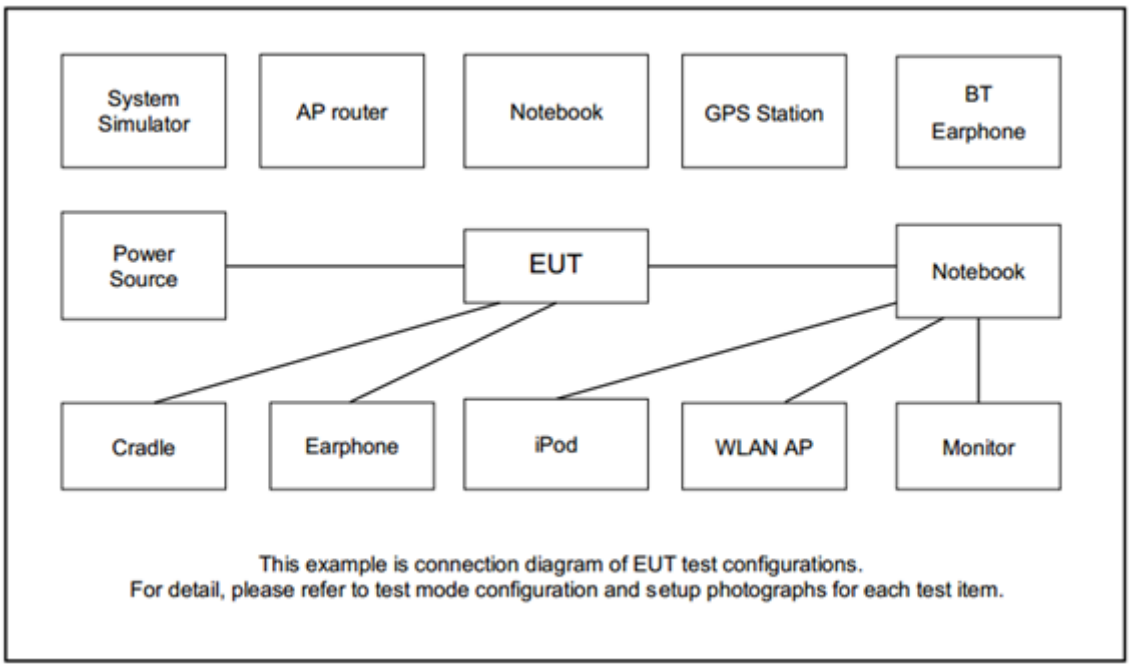
Ch. #		Band I：5150-5250 MHz	Band II：5250-5350 MHz	Band III：5470-5725MHz
		802.11ax HE40	802.11ax HE40	802.11ax HE40
L	Low	38	54	102
M	Middle	-	-	110
H	High	46	62	134
Straddle		-	-	142

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

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



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.	Type C-Audio Cable	MI	B41121	N/A	Unshielded 0.1m	N/A
5.	Earphone	MI	EM023	N/A	Unshielded, 1.25 m	N/A

2.5 EUT Operation Test Setup

The RF test items, make the EUT (SW: Xiaomi HyperOS 1.0) 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.

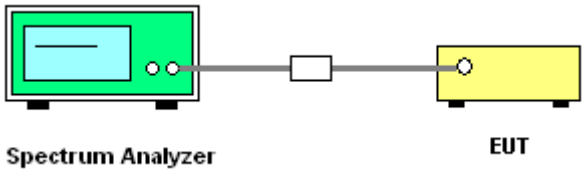
3.1.2 Measuring Instruments

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

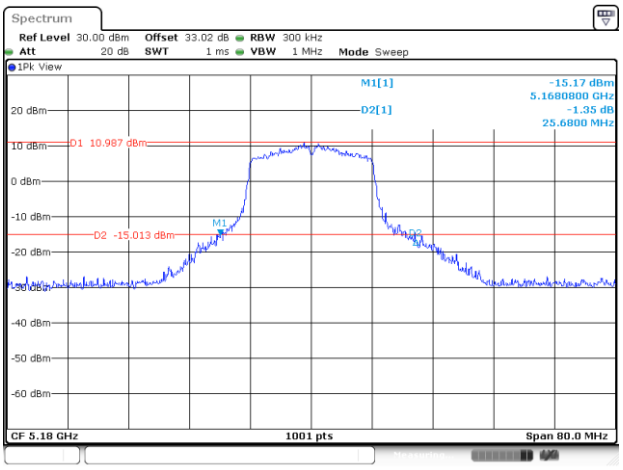
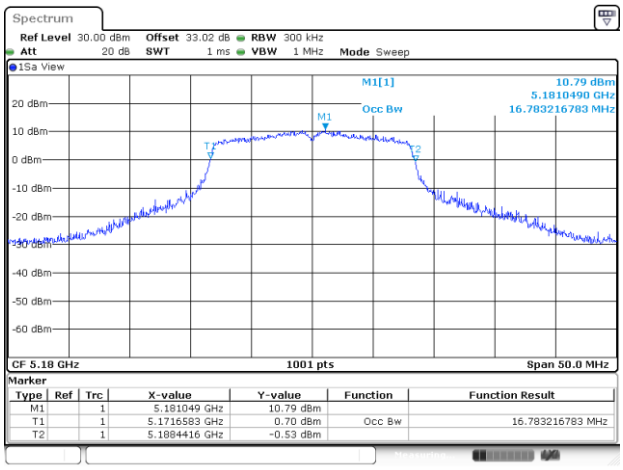


3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

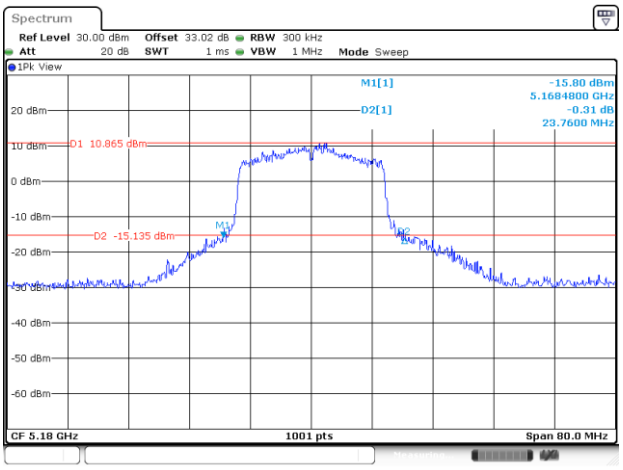
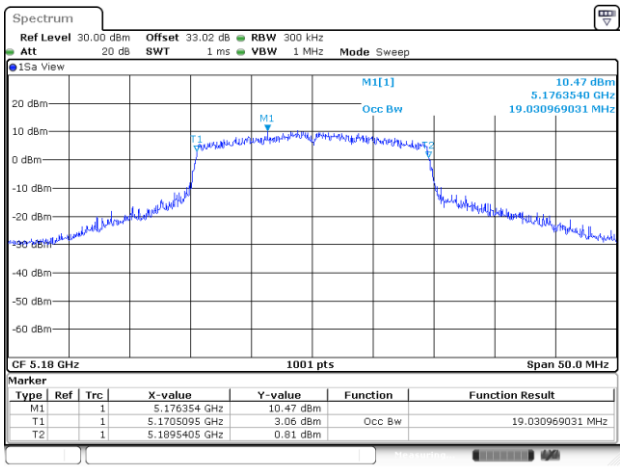
MIMO <Ant. 5+18>

<802.11a>

26dB Bandwidth	99% Occupied Bandwidth
	

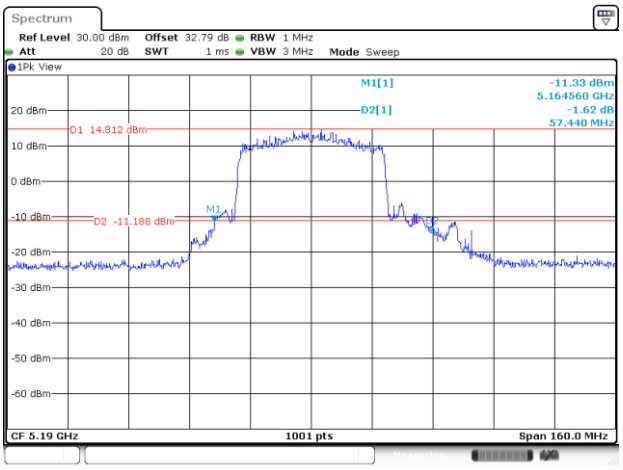
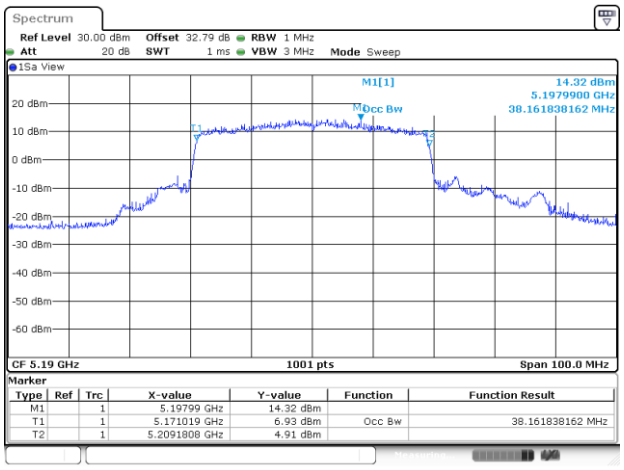
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE20>

26dB Bandwidth	99% Occupied Bandwidth
	

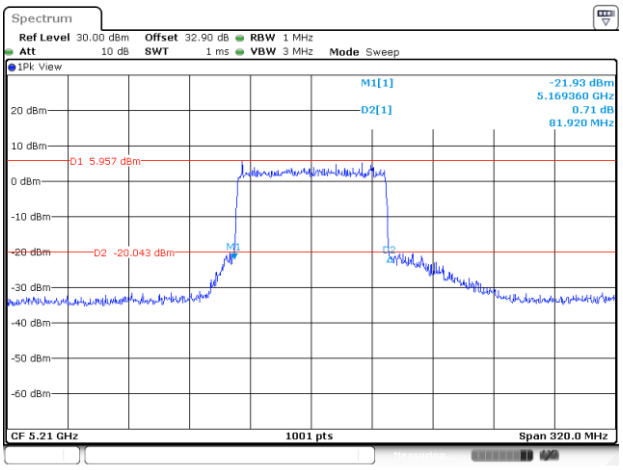
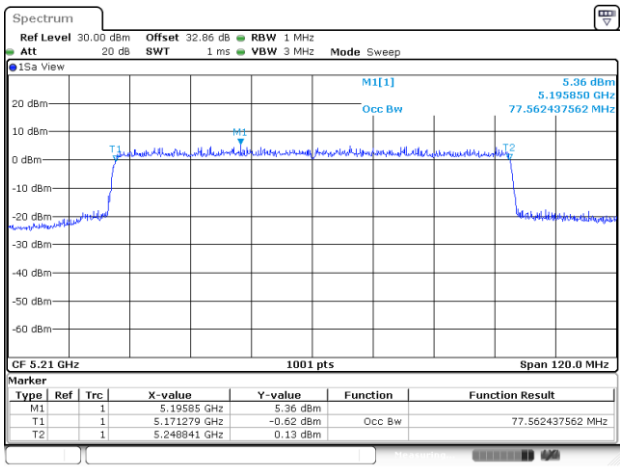
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE40>

26dB Bandwidth	99% Occupied Bandwidth
	

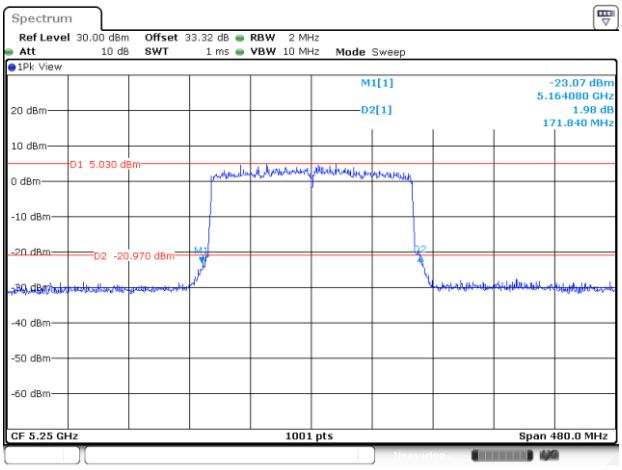
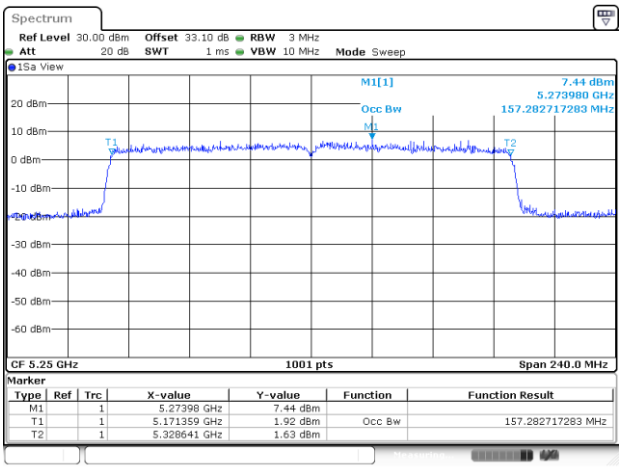
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<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.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

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

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

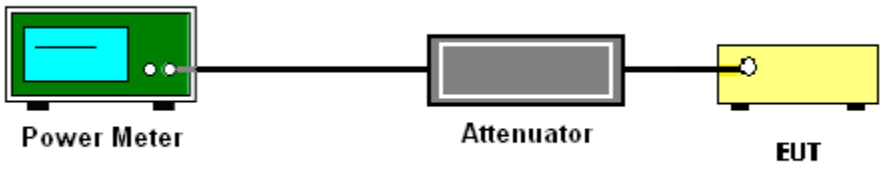
The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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

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

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

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

For the 5.25–5.725 GHz bands:

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

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

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

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

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

Section F) Maximum power spectral density.

 # Method SA-2 #

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

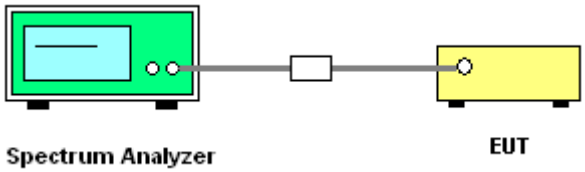
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x),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

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

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

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

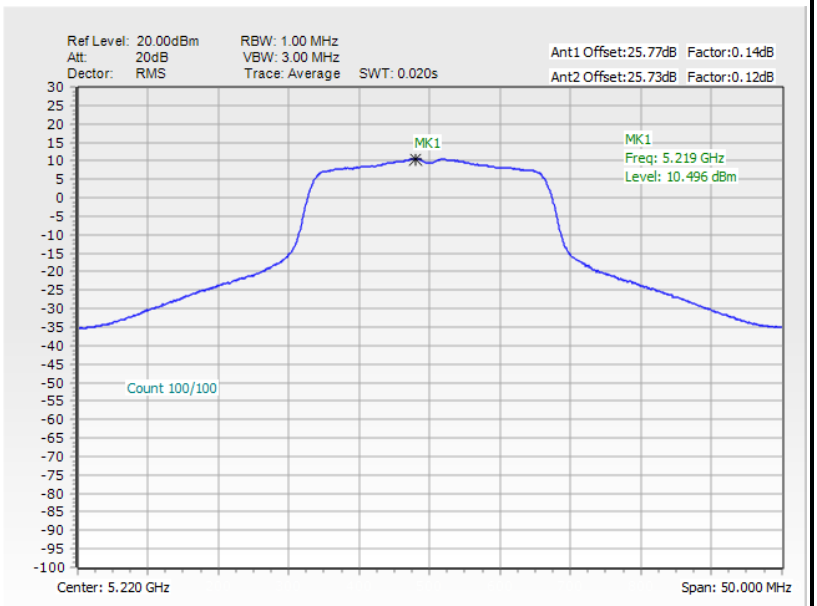
3.3.4 Test Setup



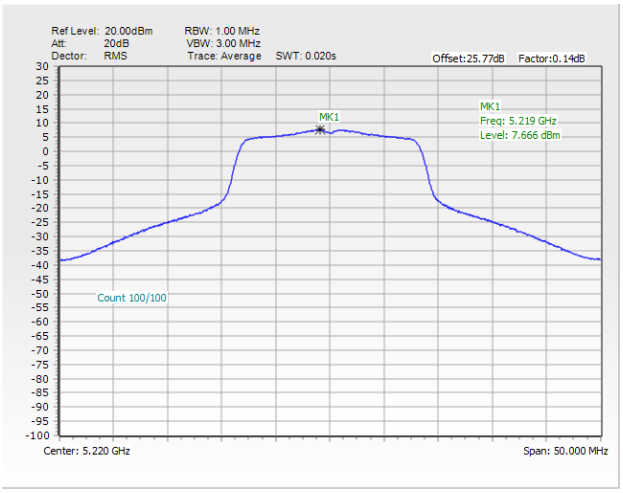
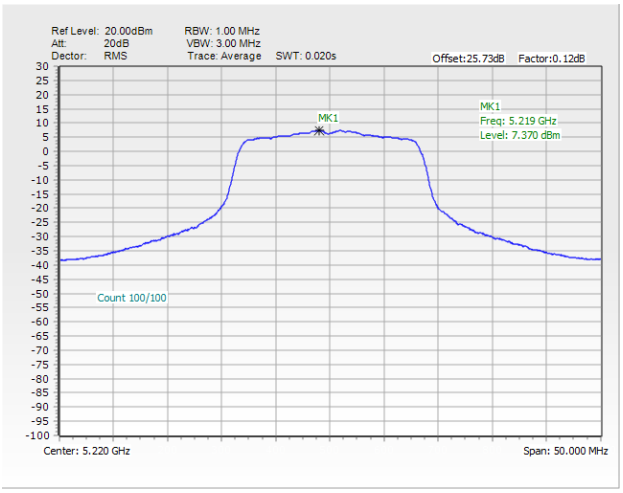
3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

<802.11a>

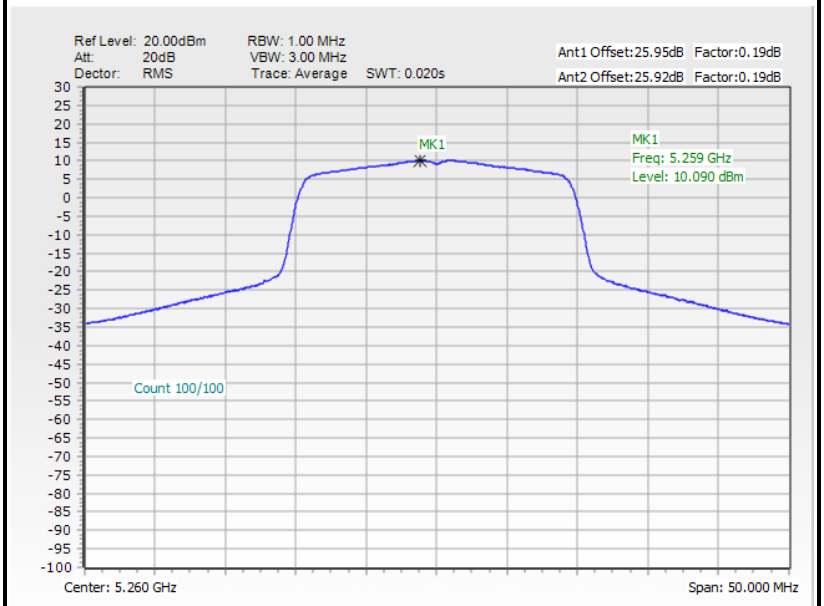
Maximum Power Density Plot (dBm/MHz)


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

Maximum Power Density Plot Trace 1 (Ant 5)	Maximum Power Density Plot Trace 2 (Ant 18)
	

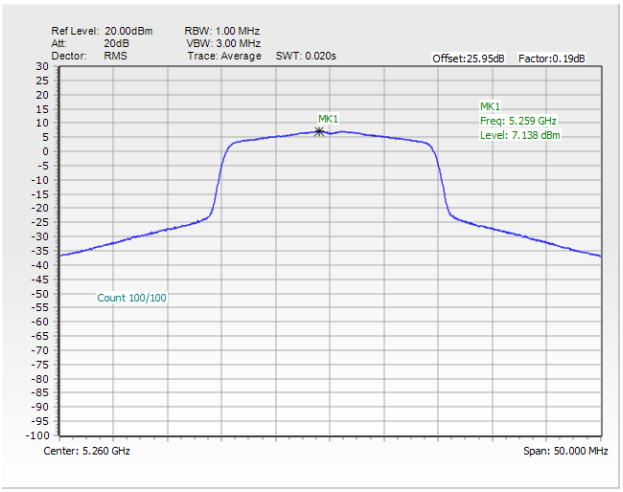
<802.11ax HE20>

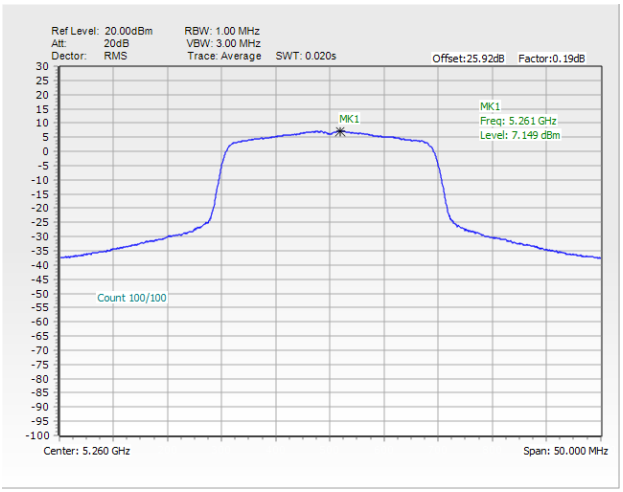
Maximum Power Density Plot (dBm/MHz)



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

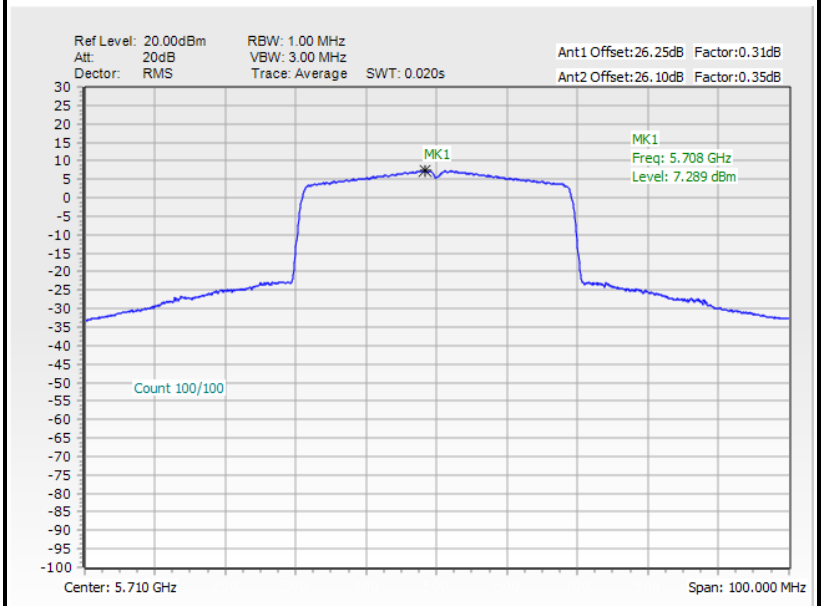
Maximum Power Density Plot Trace 1 (Ant 5)	Maximum Power Density Plot Trace 2 (Ant 18)





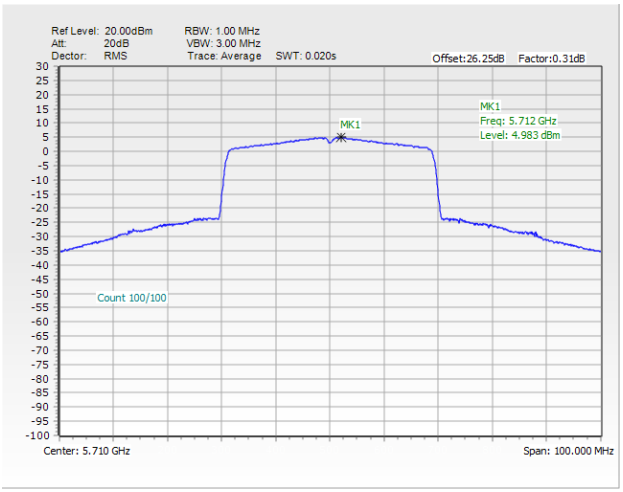
<802.11ax HE40>

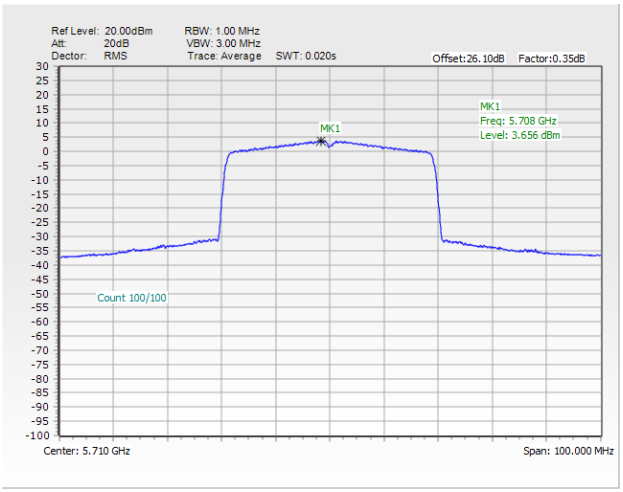
Maximum Power Density Plot (dBm/MHz)



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

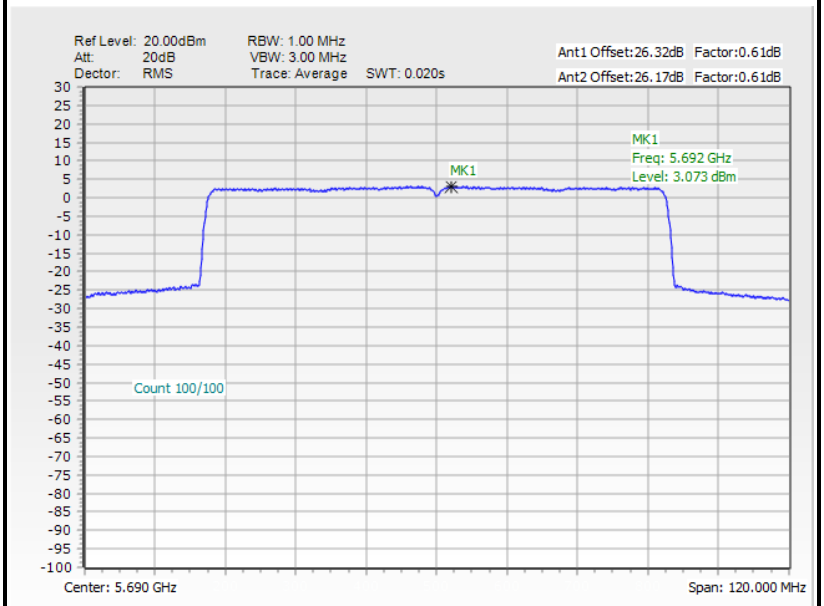
Maximum Power Density Plot Trace 1 (Ant 5)	Maximum Power Density Plot Trace 2 (Ant 18)





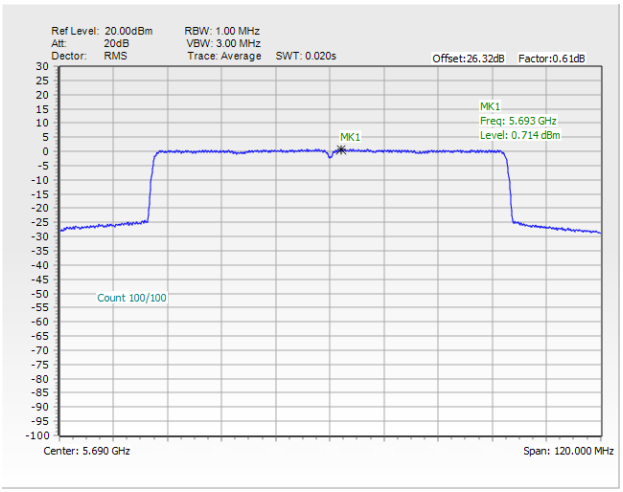
<802.11ax HE80>

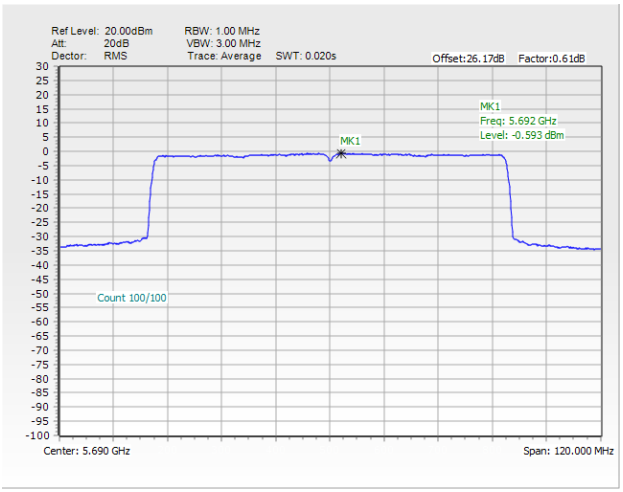
Maximum Power Density Plot (dBm/MHz)



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

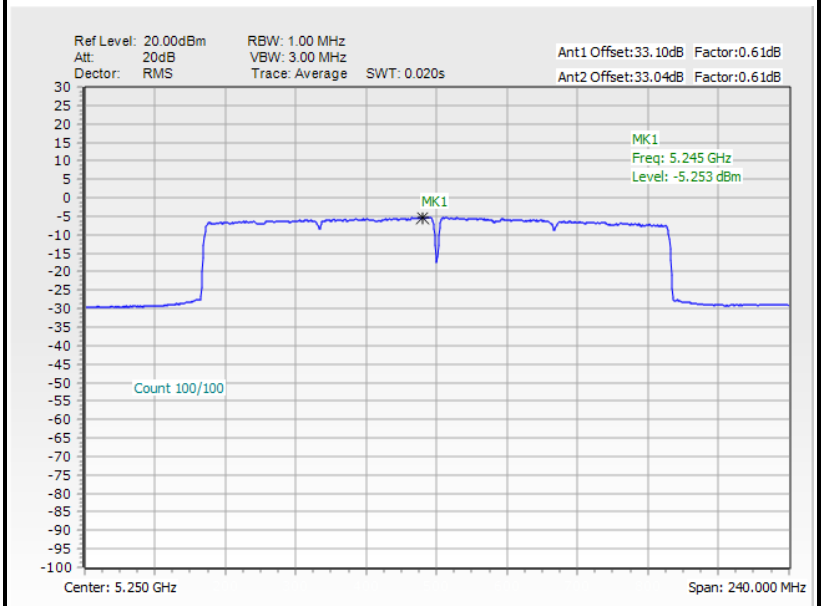
Maximum Power Density Plot Trace 1 (Ant 5)	Maximum Power Density Plot Trace 2 (Ant 18)





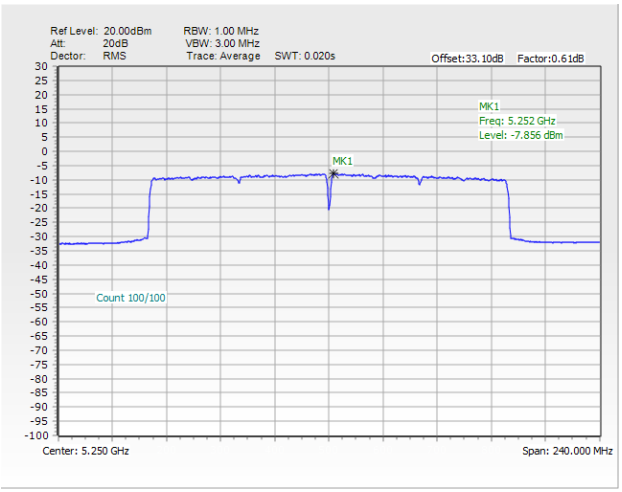
<802.11ax HE160>

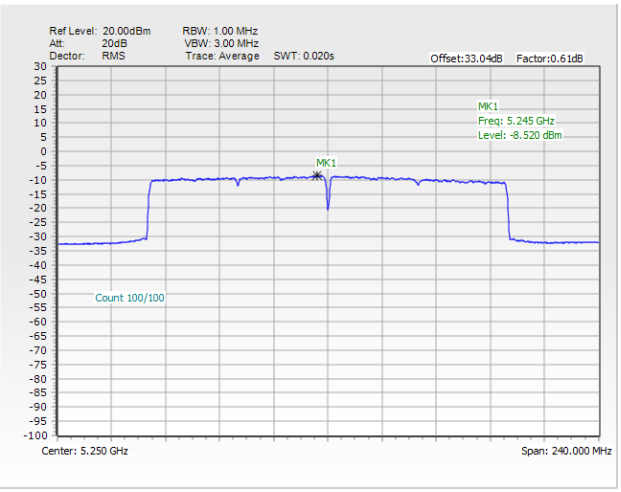
Maximum Power Density Plot (dBm/MHz)



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

Maximum Power Density Plot Trace 1 (Ant 5)	Maximum Power Density Plot Trace 2 (Ant 18)





3.4 Unwanted 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

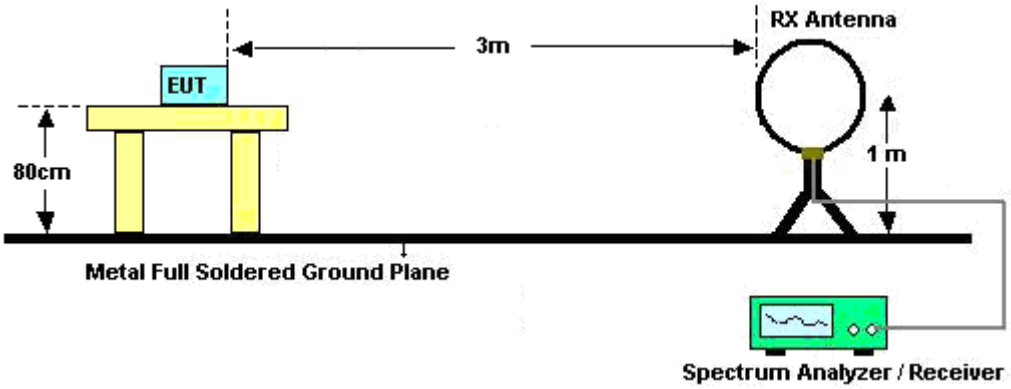
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

   - 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.

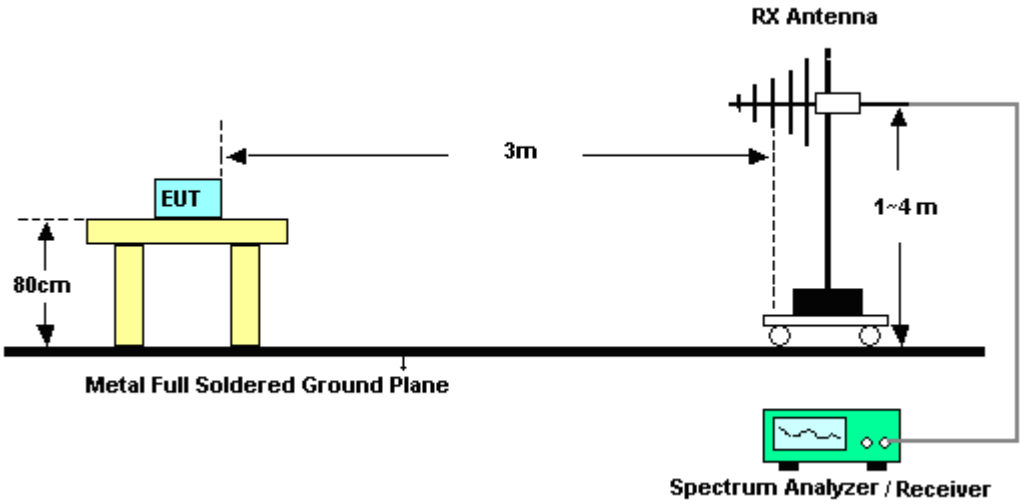
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit 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

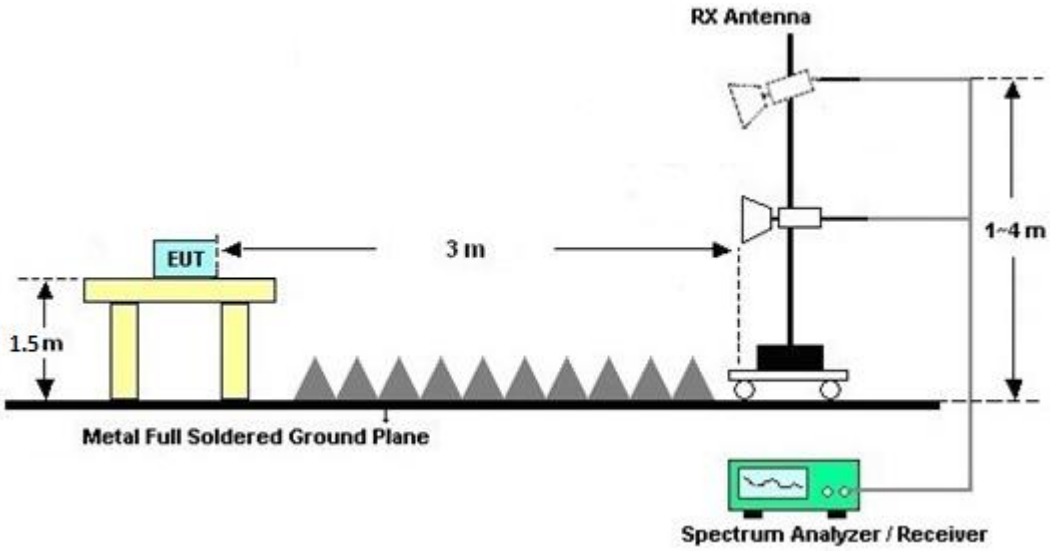
For radiated emissions below 30MHz



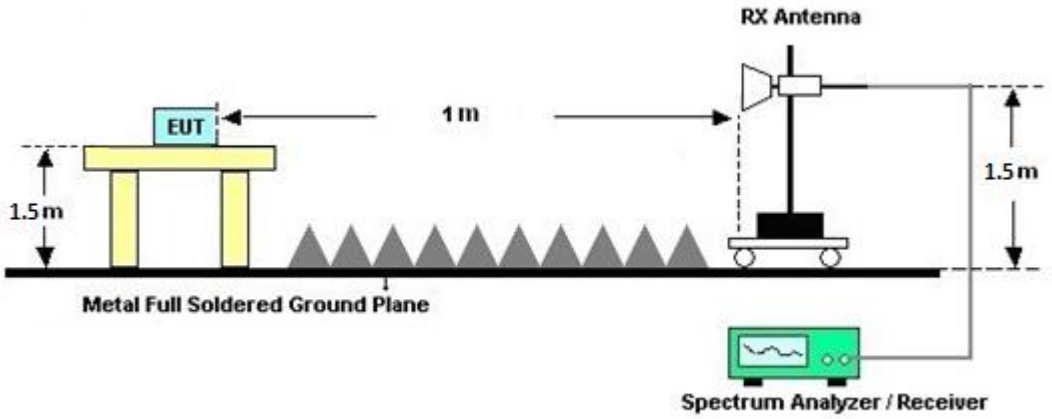
For radiated emissions from 30MHz to 1GHz



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.

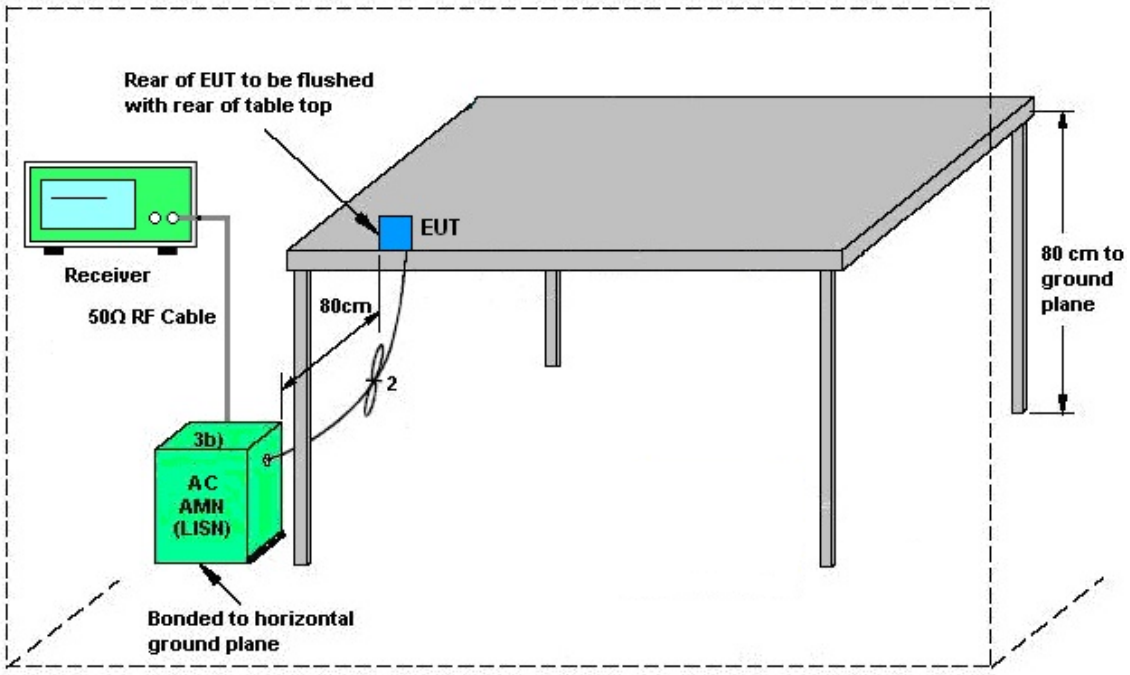
3.5.2 Measuring Instruments

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
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1GHz~18GHz	Mar. 23, 2023	Oct. 02, 2023~ Oct. 17, 2023	Mar. 22, 2024	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00994	18GHz-40GHz	Nov. 04, 2022	Oct. 02, 2023~ Oct. 17, 2023	Nov. 03, 2023	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz~1GHz	Oct. 08, 2022	Oct. 02, 2023~ Oct. 06, 2023	Oct. 07, 2023	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N -06	47020 & 06	30MHz~1GHz	Oct. 07, 2023	Oct. 07, 2023~ Oct. 17, 2023	Oct. 06, 2024	Radiation (03CH16-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	Oct. 02, 2023~ Oct. 17, 2023	Sep. 11, 2024	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 27, 2023	Oct. 02, 2023~ Oct. 17, 2023	Jun. 26, 2024	Radiation (03CH16-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Dec. 26, 2022	Oct. 02, 2023~ Oct. 17, 2023	Dec. 25, 2023	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 09, 2022	Oct. 02, 2023~ Oct. 17, 2023	Dec. 08, 2023	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1GHz	Jul. 03, 2023	Oct. 02, 2023~ Oct. 17, 2023	Jul. 02, 2024	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY57290111	3Hz~26.5GHz	Dec. 15, 2022	Oct. 02, 2023~ Oct. 17, 2023	Dec. 14, 2023	Radiation (03CH16-HY)
Signal Analyzer	Keysight	N9010B	MY60241055	10Hz~44GHz	Jul. 26, 2023	Oct. 02, 2023~ Oct. 17, 2023	Jul. 25, 2024	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9K~30M	Mar. 07, 2023	Oct. 02, 2023~ Oct. 17, 2023	Mar. 06, 2024	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102/SUCOFLEX 104	EC-A5-300-5 757,805935/4 ,802434/4	30MHz~18GHz	Aug. 08, 2023	Oct. 02, 2023~ Oct. 17, 2023	Aug. 07, 2024	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,804 012/2	18-40G	Jan. 03, 2023	Oct. 02, 2023~ Oct. 17, 2023	Jan. 02, 2024	Radiation (03CH16-HY)
Hygrometer	TECPEL	DTM-303B	TP200881	N/A	Sep. 08, 2023	Oct. 02, 2023~ Oct. 17, 2023	Sep. 07, 2024	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Oct. 02, 2023~ Oct. 17, 2023	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Oct. 02, 2023~ Oct. 17, 2023	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Oct. 02, 2023~ Oct. 17, 2023	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Oct. 02, 2023~ Oct. 17, 2023	N/A	Radiation (03CH16-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 17, 2022	Sep. 28, 2023~ Oct. 13, 2023	Nov. 16, 2023	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO 12 (NO:113)	10MHz~6GHz	Dec. 13, 2022	Sep. 28, 2023~ Oct. 13, 2023	Dec. 12, 2023	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101565	10Hz ~ 40GHz	Dec. 26, 2022	Sep. 28, 2023~ Oct. 13, 2023	Dec. 25, 2023	Conducted (TH05-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Oct. 13, 2023	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Oct. 13, 2023	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Nov. 01, 2022	Oct. 13, 2023	Oct. 31, 2023	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 15, 2023	Oct. 13, 2023	Mar. 14, 2024	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 05, 2023	Oct. 13, 2023	Mar. 04, 2024	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 13, 2023	Oct. 13, 2023	Mar. 12, 2024	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 20, 2023	Oct. 13, 2023	Sep. 19, 2024	Conduction (CO07-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.46 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.5 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.6 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.5 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.6 dB**

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Sylvia Li and Yung-Chun Lin	Temperature:	21~25	°C
Test Date:	2023/9/28~2023/10/13	Relative Humidity:	51~54	%

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 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18		
11a	6Mbps	2	36	5180	16.78	16.78	25.68	25.36	-		22.25			
11a	6Mbps	2	44	5220	16.98	16.48	24.72	20.56	-		22.17		-	
11a	6Mbps	2	48	5240	16.68	16.48	21.36	20.48	-		22.17			

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 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18		
11a	6Mbps	2	36	5180	17.90	17.70	20.81	24.00		-1.10			Pass
11a	6Mbps	2	44	5220	18.20	17.90	21.06	24.00		-1.10			Pass
11a	6Mbps	2	48	5240	17.50	17.20	20.36	24.00		-1.10			Pass
HT20	MCS0	2	36	5180	16.70	16.70	19.71	24.00		-1.10			Pass
HT20	MCS0	2	44	5220	17.00	16.80	19.91	24.00		-1.10			Pass
HT20	MCS0	2	48	5240	17.00	16.70	19.86	24.00		-1.10			Pass
HT40	MCS0	2	38	5190	16.80	16.80	19.81	24.00		-1.10			Pass
HT40	MCS0	2	46	5230	16.90	16.50	19.71	24.00		-1.10		-	Pass
VHT20	MCS0	2	36	5180	16.80	16.80	19.81	24.00		-1.10			Pass
VHT20	MCS0	2	44	5220	17.10	16.90	20.01	24.00		-1.10			Pass
VHT20	MCS0	2	48	5240	17.10	16.80	19.96	24.00		-1.10			Pass
VHT40	MCS0	2	38	5190	16.90	16.90	19.91	24.00		-1.10			Pass
VHT40	MCS0	2	46	5230	17.00	16.60	19.81	24.00		-1.10			Pass
VHT80	MCS0	2	42	5210	11.58	11.50	14.55	24.00		-1.10			Pass
VHT160	MCS0	2	50	5250	12.28	11.64	14.98	24.00		-1.10			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 5	Ant 18	Ant 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18		
11a	6Mbps	2	36	5180	0.14	0.12			10.32	11.00		1.76			Pass
11a	6Mbps	2	44	5220	0.14	0.12	-		10.49	11.00		1.76		-	Pass
11a	6Mbps	2	48	5240	0.14	0.12			10.08	11.00		1.76			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 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	
11a	6Mbps	2	52	5260	16.68	16.48	22.40	20.48	23.17		29.17		23.98		-
11a	6Mbps	2	60	5300	17.03	17.03	31.52	26.96	23.31		29.31		23.98		
11a	6Mbps	2	64	5320	16.93	16.88	27.68	26.24	23.27		29.27		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 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18		
11a	6Mbps	2	52	5260	17.80	17.60	20.71	23.98		-0.20		30	Pass
11a	6Mbps	2	60	5300	17.70	17.30	20.51	23.98		-0.20		30	Pass
11a	6Mbps	2	64	5320	17.60	17.30	20.46	23.98		-0.20		30	Pass
HT20	MCS0	2	52	5260	17.20	17.10	20.16	23.98		-0.20		30	Pass
HT20	MCS0	2	60	5300	16.90	16.80	19.86	23.98		-0.20		30	Pass
HT20	MCS0	2	64	5320	17.00	16.80	19.91	23.98		-0.20		30	Pass
HT40	MCS0	2	54	5270	17.10	16.90	20.01	23.98		-0.20		30	Pass
HT40	MCS0	2	62	5310	16.90	16.70	19.81	23.98		-0.20		30	Pass
VHT20	MCS0	2	52	5260	17.30	17.20	20.26	23.98		-0.20		30	Pass
VHT20	MCS0	2	60	5300	17.00	16.90	19.96	23.98		-0.20		30	Pass
VHT20	MCS0	2	64	5320	17.10	16.90	20.01	23.98		-0.20		30	Pass
VHT40	MCS0	2	54	5270	17.20	17.00	20.11	23.98		-0.20		30	Pass
VHT40	MCS0	2	62	5310	17.00	16.80	19.91	23.98		-0.20		30	Pass
VHT80	MCS0	2	58	5290	14.79	14.60	17.71	23.98		-0.20		30	Pass
VHT160	MCS0	2	50	5250	12.28	11.64	14.98	23.98		-0.20		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 5	Ant 18	Ant 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18		
11a	6Mbps	2	52	5260	0.14	0.12			10.35	11.00		2.56			Pass
11a	6Mbps	2	60	5300	0.14	0.12	-		9.96	11.00		2.56		-	Pass
11a	6Mbps	2	64	5320	0.14	0.12			10.11	11.00		2.56			Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-2C MIMO																	
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	99% Bandwidth In U-NII 2C (MHz)		26 dB Bandwidth In U-NII 2C (MHz)		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 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18
11a	6Mbps	2	100	5500	16.98	16.98	28.48	27.68	23.30		29.30		23.98		----	----
11a	6Mbps	2	116	5580	16.68	16.48	22.88	21.44	23.17		29.17		23.98		----	----
11a	6Mbps	2	140	5700	16.98	16.83	28.40	26.24	23.26		29.26		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 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18
11a	6Mbps	2	144	5720	13.35	13.25	16.92	15.72	22.22		28.22		22.96		2.6	2.6

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 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18		
11a	6Mbps	2	100	5500	18.30	17.70	21.02	23.98		0.00		30	Pass
11a	6Mbps	2	116	5580	18.40	17.40	20.94	23.98		0.00		30	Pass
11a	6Mbps	2	140	5700	17.90	16.50	20.27	23.98		0.00		30	Pass
HT20	MCS0	2	100	5500	17.60	17.10	20.37	23.98		0.00		30	Pass
HT20	MCS0	2	116	5580	18.00	17.00	20.54	23.98		0.00		30	Pass
HT20	MCS0	2	140	5700	16.63	15.17	18.97	23.98		0.00		30	Pass
HT40	MCS0	2	102	5510	17.50	17.10	20.31	23.98		0.00		30	Pass
HT40	MCS0	2	110	5550	17.50	16.90	20.22	23.98		0.00		30	Pass
HT40	MCS0	2	134	5670	17.70	16.50	20.15	23.98		0.00		30	Pass
VHT20	MCS0	2	100	5500	17.70	17.20	20.47	23.98		0.00		30	Pass
VHT20	MCS0	2	116	5580	18.10	17.10	20.64	23.98		0.00		30	Pass
VHT20	MCS0	2	140	5700	16.73	15.27	19.07	23.98		0.00		30	Pass
VHT40	MCS0	2	102	5510	17.60	17.20	20.41	23.98		0.00		30	Pass
VHT40	MCS0	2	110	5550	17.60	17.00	20.32	23.98		0.00		30	Pass
VHT40	MCS0	2	134	5670	17.80	16.60	20.25	23.98		0.00		30	Pass
VHT80	MCS0	2	106	5530	13.55	12.87	16.23	23.98		0.00		30	Pass
VHT80	MCS0	2	122	5610	16.40	15.20	18.85	23.98		0.00		30	Pass
VHT160	MCS0	2	114	5570	11.52	10.91	14.24	23.98		0.00		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 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18		
11a	6Mbps	2	144	5720	18.30	17.00	20.71	22.96		0.00		30	Pass
HT20	MCS0	2	144	5720	17.90	16.90	20.44	23.98		0.00		30	Pass
HT40	MCS0	2	142	5710	17.90	16.60	20.31	23.98		0.00		30	Pass
VHT20	MCS0	2	144	5720	18.00	17.00	20.54	23.98		0.00		30	Pass
VHT40	MCS0	2	142	5710	18.00	16.70	20.41	23.98		0.00		30	Pass
VHT80	MCS0	2	138	5690	16.80	15.60	19.25	23.98		0.00		30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2C MIMO															
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
					Ant 5	Ant 18	Ant 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18		
11a	6Mbps	2	100	5500	0.14	0.12	-		10.22	11.00		2.72		-	Pass
11a	6Mbps	2	116	5580	0.14	0.12			10.19	11.00		2.72			Pass
11a	6Mbps	2	140	5700	0.14	0.12			9.61	11.00		2.72			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 5	Ant 18	Ant 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18		
11a	6Mbps	2	144	5720	0.14	0.12	-		10.35	11.00		2.72		-	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 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18		
HE20	MCS0	2	36	5180	Full	19.03	19.08	23.76	25.36	-		22.79			
HE20	MCS0	2	44	5220	Full	18.93	18.93	22.32	21.28	-		22.77			
HE20	MCS0	2	48	5240	Full	18.98	18.88	21.68	21.60	-		22.76			
HE40	MCS0	2	38	5190	Full	38.16	38.26	57.44	54.88	-		23.01		-	-
HE40	MCS0	2	46	5230	Full	38.06	37.86	49.28	40.48	-		23.01			
HE80	MCS0	2	42	5210	Full	77.56	77.68	81.92	91.20	-		23.01			
HE160	MCS0	2	50	5250	Full	157.28	157.52	171.84	163.68	-		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 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18		
HE20	MCS0	2	36	5180	Full	17.30	17.30	20.31	24.00		-1.10		-	Pass
HE20	MCS0	2	36	5180	26/0	7.86	7.73	10.81	24.00		-1.10			Pass
HE20	MCS0	2	36	5180	52/37	11.44	11.38	14.42	24.00		-1.10			Pass
HE20	MCS0	2	36	5180	106/53	14.63	14.75	17.70	24.00		-1.10			Pass
HE20	MCS0	2	44	5220	Full	17.60	17.40	20.51	24.00		-1.10			Pass
HE20	MCS0	2	44	5220	26/4	9.96	9.27	12.64	24.00		-1.10			Pass
HE20	MCS0	2	44	5220	52/38	12.25	11.84	15.06	24.00		-1.10			Pass
HE20	MCS0	2	44	5220	106/53	15.54	15.04	18.31	24.00		-1.10			Pass
HE20	MCS0	2	48	5240	Full	17.60	17.30	20.46	24.00		-1.10			Pass
HE20	MCS0	2	48	5240	26/8	9.44	8.71	12.10	24.00		-1.10			Pass
HE20	MCS0	2	48	5240	52/40	11.90	11.35	14.64	24.00		-1.10			Pass
HE20	MCS0	2	48	5240	106/54	15.46	14.90	18.20	24.00		-1.10			Pass
HE40	MCS0	2	38	5190	Full	17.05	17.11	20.09	24.00		-1.10			Pass
HE40	MCS0	2	46	5230	Full	18.00	17.70	20.86	24.00		-1.10			Pass
HE80	MCS0	2	42	5210	Full	11.60	11.60	14.61	24.00		-1.10			Pass
HE160	MCS0	2	50	5250	Full	12.38	11.74	15.08	24.00		-1.10			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 5	Ant 18	Ant 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18		
HE20	MCS0	2	36	5180	Full	0.19	0.19			9.68	11.00		1.76			Pass
HE20	MCS0	2	36	5180	26/0	0.19	0.19			9.62	11.00		1.76			Pass
HE20	MCS0	2	36	5180	52/37	0.19	0.19			9.20	11.00		1.76			Pass
HE20	MCS0	2	36	5180	106/53	0.19	0.19			9.27	11.00		1.76			Pass
HE20	MCS0	2	44	5220	Full	0.19	0.19			9.53	11.00		1.76			Pass
HE20	MCS0	2	44	5220	26/4	0.19	0.19			9.37	11.00		1.76			Pass
HE20	MCS0	2	44	5220	52/38	0.19	0.19			9.48	11.00		1.76			Pass
HE20	MCS0	2	44	5220	106/53	0.19	0.19			9.51	11.00		1.76			Pass
HE20	MCS0	2	48	5240	Full	0.19	0.19	-		9.64	11.00		1.76		-	Pass
HE20	MCS0	2	48	5240	26/8	0.19	0.19			9.45	11.00		1.76			Pass
HE20	MCS0	2	48	5240	52/40	0.19	0.19			9.19	11.00		1.76			Pass
HE20	MCS0	2	48	5240	106/54	0.19	0.19			9.57	11.00		1.76			Pass
HE40	MCS0	2	38	5190	Full	0.31	0.35			6.44	11.00		1.76			Pass
HE40	MCS0	2	46	5230	Full	0.31	0.35			6.90	11.00		1.76			Pass
HE80	MCS0	2	42	5210	Full	0.61	0.61			-3.14	11.00		1.76			Pass
HE160	MCS0	2	50	5250	Full	0.61	0.61			-5.25	11.00		1.76			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 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	
HE20	MCS0	2	52	5260	Full	18.93	18.93	21.92	21.28	23.77		29.77		23.98		
HE20	MCS0	2	60	5300	Full	19.13	19.08	29.44	28.56	23.81		29.81		23.98		
HE20	MCS0	2	64	5320	Full	19.08	19.08	28.16	28.72	23.81		29.81		23.98		
HE40	MCS0	2	54	5270	Full	37.96	38.16	59.84	40.80	23.98		30.00		23.98		
HE40	MCS0	2	62	5310	Full	38.26	38.16	61.44	62.40	23.98		30.00		23.98		
HE80	MCS0	2	58	5290	Full	77.68	77.56	93.76	101.12	23.98		30.00		23.98		
HE160	MCS0	2	50	5250	Full	157.3	157.5	171.8	163.7	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 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18		
HE20	MCS0	2	52	5260	Full	17.80	17.70	20.76	23.98		-0.20		30	Pass
HE20	MCS0	2	52	5260	26/0	9.39	8.91	12.17	23.98		-0.20		30	Pass
HE20	MCS0	2	52	5260	52/37	12.61	12.23	15.43	23.98		-0.20		30	Pass
HE20	MCS0	2	52	5260	106/53	15.58	15.49	18.55	23.98		-0.20		30	Pass
HE20	MCS0	2	60	5300	Full	17.50	17.40	20.46	23.98		-0.20		30	Pass
HE20	MCS0	2	60	5300	26/4	9.81	9.52	12.68	23.98		-0.20		30	Pass
HE20	MCS0	2	60	5300	52/38	11.96	11.73	14.86	23.98		-0.20		30	Pass
HE20	MCS0	2	60	5300	106/53	15.38	15.12	18.26	23.98		-0.20		30	Pass
HE20	MCS0	2	64	5320	Full	17.60	17.40	20.51	23.98		-0.20		30	Pass
HE20	MCS0	2	64	5320	26/8	12.16	8.75	13.79	23.98		-0.20		30	Pass
HE20	MCS0	2	64	5320	52/40	12.09	11.93	15.02	23.98		-0.20		30	Pass
HE20	MCS0	2	64	5320	106/54	15.30	15.55	18.44	23.98		-0.20		30	Pass
HE40	MCS0	2	54	5270	Full	18.20	18.00	21.11	23.98		-0.20		30	Pass
HE40	MCS0	2	62	5310	Full	18.00	17.80	20.91	23.98		-0.20		30	Pass
HE80	MCS0	2	58	5290	Full	14.89	14.70	17.81	23.98		-0.20		30	Pass
HE160	MCS0	2	50	5250	Full	12.38	11.74	15.08	23.98		-0.20		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 5	Ant 18	Ant 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18		
HE20	MCS0	2	52	5260	Full	0.19	0.19			10.09	11.00		2.56			Pass
HE20	MCS0	2	52	5260	26/0	0.19	0.19			9.77	11.00		2.56			Pass
HE20	MCS0	2	52	5260	52/37	0.19	0.19			9.64	11.00		2.56			Pass
HE20	MCS0	2	52	5260	106/53	0.19	0.19			9.73	11.00		2.56			Pass
HE20	MCS0	2	60	5300	Full	0.19	0.19			9.36	11.00		2.56			Pass
HE20	MCS0	2	60	5300	26/4	0.19	0.19			9.12	11.00		2.56			Pass
HE20	MCS0	2	60	5300	52/38	0.19	0.19			9.23	11.00		2.56			Pass
HE20	MCS0	2	60	5300	106/53	0.19	0.19			9.34	11.00		2.56			Pass
HE20	MCS0	2	64	5320	Full	0.19	0.19	-		9.71	11.00		2.56		-	Pass
HE20	MCS0	2	64	5320	26/8	0.19	0.19			9.49	11.00		2.56			Pass
HE20	MCS0	2	64	5320	52/40	0.19	0.19			9.67	11.00		2.56			Pass
HE20	MCS0	2	64	5320	106/54	0.19	0.19			9.70	11.00		2.56			Pass
HE40	MCS0	2	54	5270	Full	0.31	0.35			7.24	11.00		2.56			Pass
HE40	MCS0	2	62	5310	Full	0.31	0.35			7.02	11.00		2.56			Pass
HE80	MCS0	2	58	5290	Full	0.61	0.61			0.33	11.00		2.56			Pass
HE160	MCS0	2	50	5250	Full	0.61	0.61			-5.25	11.00		2.56			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 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18
HE20	MCS0	2	100	5500	Full	19.03	19.03	23.36	31.44	23.79		29.79		23.98		----	----
HE20	MCS0	2	116	5580	Full	18.98	18.93	27.44	21.52	23.77		29.77		23.98		----	----
HE20	MCS0	2	140	5700	Full	19.03	19.08	25.92	24.48	23.79		29.79		23.98		----	----
HE40	MCS0	2	102	5510	Full	38.26	38.16	63.04	65.28	23.98		30.00		23.98		----	----
HE40	MCS0	2	110	5550	Full	37.96	37.86	40.80	40.48	23.98		30.00		23.98		----	----
HE40	MCS0	2	134	5670	Full	38.36	38.46	61.60	73.76	23.98		30.00		23.98		----	----
HE80	MCS0	2	106	5530	Full	77.56	77.44	98.88	100.48	23.98		30.00		23.98		----	----
HE80	MCS0	2	122	5610	Full	77.56	77.44	100.48	81.28	23.98		30.00		23.98		----	----
HE160	MCS0	2	114	5570	Full	157.76	157.76	173.28	167.04	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 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18	Ant 5	Ant 18
HE20	MCS0	2	144	5720	Full	14.50	14.50	17.24	15.72	22.61		28.61		22.96		3.7	2.6
HE40	MCS0	2	142	5710	Full	33.99	33.89	39.44	26.60	23.98		30.00		23.98		2.64	3.27
HE80	MCS0	2	138	5690	Full	73.85	73.73	90.04	75.32	23.98		30.00		23.98		4.2	4.2

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 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18		
HE20	MCS0	2	100	5500	Full	18.20	17.70	20.97	23.98		0.00		30	Pass
HE20	MCS0	2	100	5500	26/0	9.14	8.57	11.87	23.98		0.00		30	Pass
HE20	MCS0	2	100	5500	52/37	12.45	11.92	15.20	23.98		0.00		30	Pass
HE20	MCS0	2	100	5500	106/53	15.49	15.11	18.31	23.98		0.00		30	Pass
HE20	MCS0	2	116	5580	Full	18.60	17.60	21.14	23.98		0.00		30	Pass
HE20	MCS0	2	116	5580	26/4	10.83	9.87	13.39	23.98		0.00		30	Pass
HE20	MCS0	2	116	5580	52/38	13.03	12.40	15.74	23.98		0.00		30	Pass
HE20	MCS0	2	116	5580	106/53	15.48	14.66	18.10	23.98		0.00		30	Pass
HE20	MCS0	2	140	5700	Full	16.83	15.37	19.17	23.98		0.00		30	Pass
HE20	MCS0	2	140	5700	26/8	9.37	7.82	11.67	23.98		0.00		30	Pass
HE20	MCS0	2	140	5700	52/40	12.31	10.82	14.64	23.98		0.00		30	Pass
HE20	MCS0	2	140	5700	106/54	14.81	13.50	17.21	23.98		0.00		30	Pass
HE40	MCS0	2	102	5510	Full	18.60	18.20	21.41	23.98		0.00		30	Pass
HE40	MCS0	2	110	5550	Full	18.60	18.10	21.37	23.98		0.00		30	Pass
HE40	MCS0	2	134	5670	Full	18.80	17.60	21.25	23.98		0.00		30	Pass
HE80	MCS0	2	106	5530	Full	13.65	12.97	16.33	23.98		0.00		30	Pass
HE80	MCS0	2	122	5610	Full	18.40	17.20	20.85	23.98		0.00		30	Pass
HE160	MCS0	2	114	5570	Full	11.62	11.01	14.34	23.98		0.00		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 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18		
HE20	MCS0	2	144	5720	Full	18.50	17.50	21.04	22.96		0.00		30	Pass
HE20	MCS0	2	144	5720	26/8	11.11	9.46	13.37	22.96		0.00		30	Pass
HE20	MCS0	2	144	5720	52/40	13.43	12.13	15.84	22.96		0.00		30	Pass
HE20	MCS0	2	144	5720	106/54	16.53	15.18	18.92	22.96		0.00		30	Pass
HE40	MCS0	2	142	5710	Full	19.00	17.80	21.45	23.98		0.00		30	Pass
HE80	MCS0	2	138	5690	Full	18.80	17.60	21.25	23.98		0.00		30	Pass

TEST RESULTS DATA
Power Spectral Density

U-NII-2C MIMO																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 5	Ant 18	Ant 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18		
HE20	MCS0	2	100	5500	Full	0.19	0.19			9.74	11.00		2.72			Pass
HE20	MCS0	2	100	5500	26/0	0.19	0.19			9.61	11.00		2.72			Pass
HE20	MCS0	2	100	5500	52/37	0.19	0.19			9.68	11.00		2.72			Pass
HE20	MCS0	2	100	5500	106/53	0.19	0.19			9.66	11.00		2.72			Pass
HE20	MCS0	2	116	5580	Full	0.19	0.19			10.05	11.00		2.72			Pass
HE20	MCS0	2	116	5580	26/4	0.19	0.19			9.81	11.00		2.72			Pass
HE20	MCS0	2	116	5580	52/38	0.19	0.19			10.05	11.00		2.72			Pass
HE20	MCS0	2	116	5580	106/53	0.19	0.19			9.58	11.00		2.72			Pass
HE20	MCS0	2	140	5700	Full	0.19	0.19			8.58	11.00		2.72			Pass
HE20	MCS0	2	140	5700	26/8	0.19	0.19	-		8.52	11.00		2.72		-	Pass
HE20	MCS0	2	140	5700	52/40	0.19	0.19			8.55	11.00		2.72			Pass
HE20	MCS0	2	140	5700	106/54	0.19	0.19			8.24	11.00		2.72			Pass
HE40	MCS0	2	102	5510	Full	0.31	0.35			7.22	11.00		2.72			Pass
HE40	MCS0	2	110	5550	Full	0.31	0.35			7.15	11.00		2.72			Pass
HE40	MCS0	2	134	5670	Full	0.31	0.35			6.95	11.00		2.72			Pass
HE80	MCS0	2	106	5530	Full	0.61	0.61			-1.36	11.00		2.72			Pass
HE80	MCS0	2	122	5610	Full	0.61	0.61			2.53	11.00		2.72			Pass
HE160	MCS0	2	114	5570	Full	0.61	0.61			-5.50	11.00		2.72			Pass

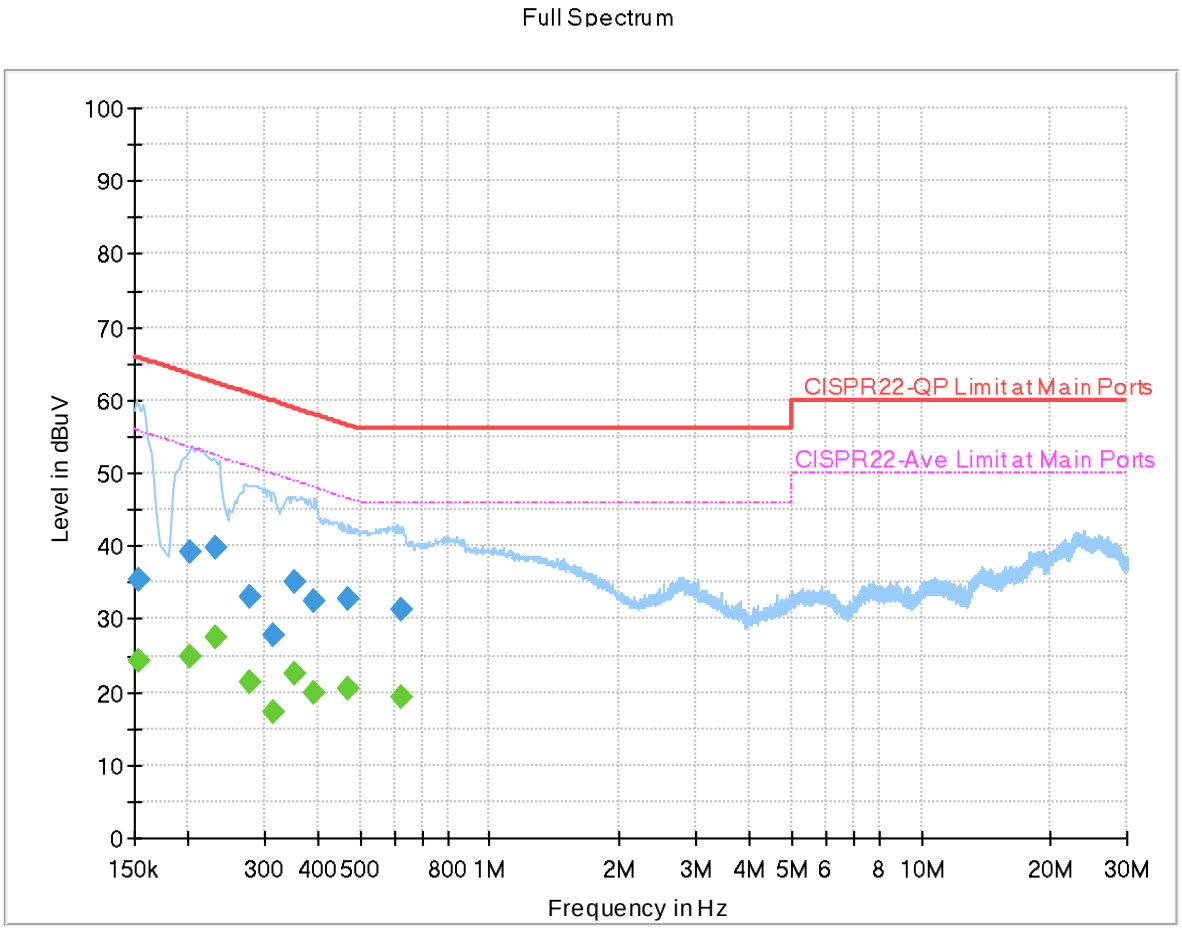
U-NII-2C straddle channel MIMO																
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density (dBm/MHz)			Average PSD Limit (dBm/MHz)		DG (dBi)			Pass /Fail
						Ant 5	Ant 18	Ant 5	Ant 18	SUM	Ant 5	Ant 18	Ant 5	Ant 18		
HE20	MCS0	2	144	5720	Full	0.19	0.19			9.94	11.00		2.72			Pass
HE20	MCS0	2	144	5720	26/8	0.31	0.35			9.91	11.00		2.72			Pass
HE20	MCS0	2	144	5720	52/40	0.31	0.35			9.55	11.00		2.72			Pass
HE20	MCS0	2	144	5720	106/54	0.31	0.35	-		9.49	11.00		2.72		-	Pass
HE40	MCS0	2	142	5710	Full	0.31	0.35			7.28	11.00		2.72			Pass
HE80	MCS0	2	138	5690	Full	0.61	0.61			3.07	11.00		2.72			Pass

Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	**Temperature :**	23.3~26.7℃
		Relative Humidity :	54.5~61.2%

EUT Information

Report NO :	392037
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

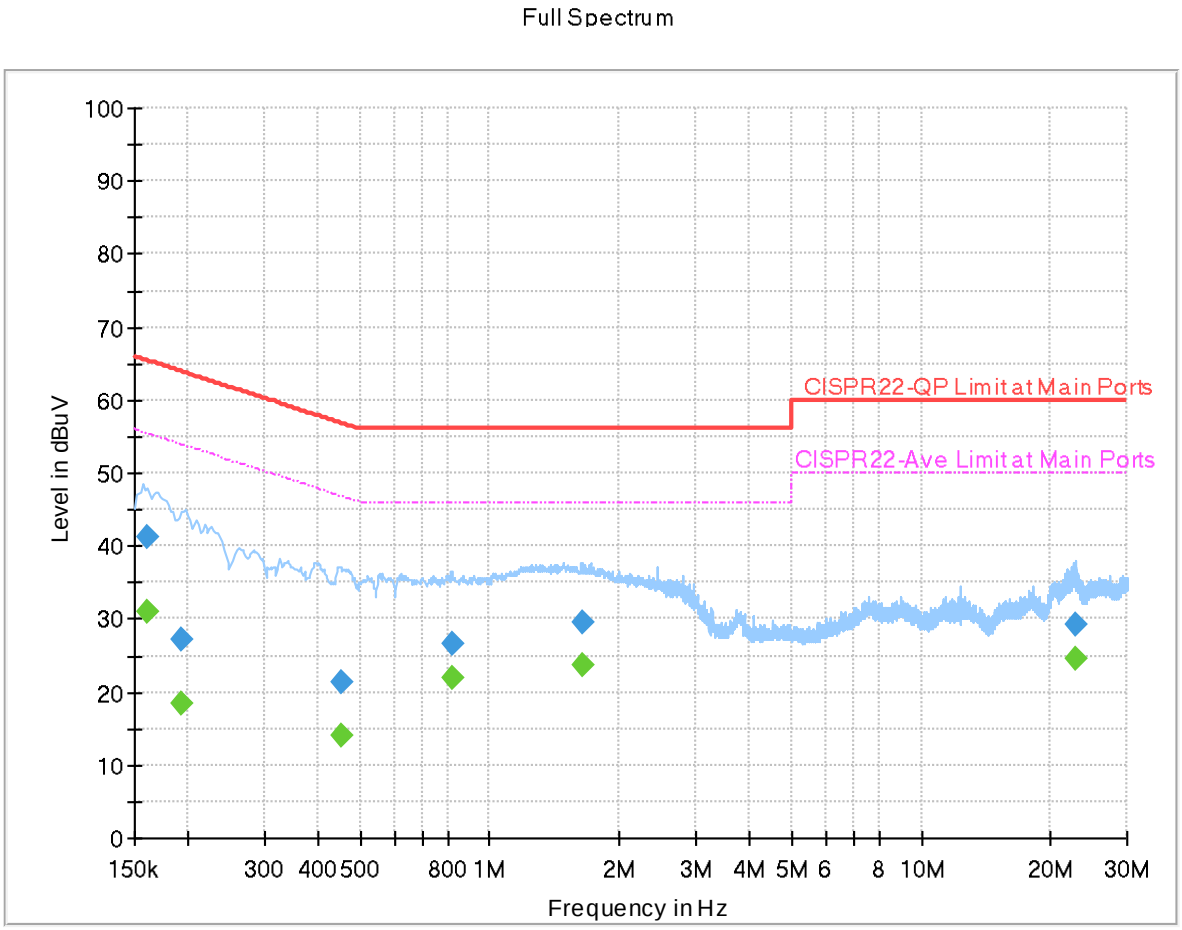


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.153105	35.39	---	65.83	30.44	L1	OFF	19.9
0.153105	---	24.36	55.83	31.47	L1	OFF	19.9
0.201390	39.30	---	63.55	24.25	L1	OFF	19.9
0.201390	---	24.81	53.55	28.74	L1	OFF	19.9
0.232440	39.64	---	62.36	22.72	L1	OFF	19.9
0.232440	---	27.44	52.36	24.92	L1	OFF	19.9
0.276000	33.10	---	60.94	27.84	L1	OFF	19.9
0.276000	---	21.26	50.94	29.68	L1	OFF	19.9
0.314070	27.84	---	59.86	32.02	L1	OFF	19.9
0.314070	---	17.19	49.86	32.67	L1	OFF	19.9
0.351690	34.98	---	58.92	23.94	L1	OFF	19.9
0.351690	---	22.60	48.92	26.32	L1	OFF	19.9
0.391830	32.43	---	58.03	25.60	L1	OFF	19.9
0.391830	---	19.96	48.03	28.07	L1	OFF	19.9
0.470760	32.63	---	56.50	23.87	L1	OFF	20.0
0.470760	---	20.60	46.50	25.90	L1	OFF	20.0
0.623760	31.43	---	56.00	24.57	L1	OFF	20.0
0.623760	---	19.20	46.00	26.80	L1	OFF	20.0

EUT Information

Report NO :	392037
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)
0.161430	---	30.90	55.39	24.49	N	OFF	19.9
0.161430	41.24	---	65.39	24.15	N	OFF	19.9
0.192750	---	18.43	53.92	35.49	N	OFF	19.9
0.192750	27.28	---	63.92	36.64	N	OFF	19.9
0.450600	---	14.06	46.86	32.80	N	OFF	20.0
0.450600	21.33	---	56.86	35.53	N	OFF	20.0
0.817080	---	21.80	46.00	24.20	N	OFF	20.0
0.817080	26.63	---	56.00	29.37	N	OFF	20.0
1.633110	---	23.69	46.00	22.31	N	OFF	20.0
1.633110	29.47	---	56.00	26.53	N	OFF	20.0
22.743060	---	24.43	50.00	25.57	N	OFF	20.2
22.743060	29.12	---	60.00	30.88	N	OFF	20.2

Appendix C. Radiated Spurious Emission

Test Engineer :	Jack tsai, Gary Guo and Steven Wu	Temperature :	20~25°C
		Relative Humidity :	50~65%

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
5+18		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5137.02	55.44	-18.56	74	40.57	33	11.33	29.46	100	337	P	H
		5145.6	46.79	-7.21	54	31.92	33	11.34	29.47	100	337	A	H
	*	5180	109.86	-	-	94.98	33	11.38	29.5	100	337	P	H
	*	5180	103.65	-	-	88.77	33	11.38	29.5	100	337	A	H
													H
		5125.32	56.57	-17.43	74	41.7	33	11.32	29.45	100	88	P	V
		5149.5	47.44	-6.56	54	32.56	33	11.35	29.47	100	88	A	V
	*	5180	112.9	-	-	98.02	33	11.38	29.5	100	88	P	V
	*	5180	106.97	-	-	92.09	33	11.38	29.5	100	88	A	V
													V
802.11a CH 44 5220MHz		5058.24	55.39	-18.61	74	40.35	33.17	11.25	29.38	100	4	P	H
		5058.5	46.67	-7.33	54	31.63	33.17	11.25	29.38	100	4	A	H
	*	5220	109.59	-	-	94.76	32.96	11.41	29.54	100	4	P	H
	*	5220	104.31	-	-	89.48	32.96	11.41	29.54	100	4	A	H
		5445.16	53.92	-20.08	74	39.16	32.9	11.61	29.75	100	4	P	H
		5444.88	45.16	-8.84	54	30.4	32.9	11.61	29.75	100	4	A	H
													H
		5004.42	56.09	-17.91	74	41.03	33.2	11.19	29.33	105	85	P	V
		5147.16	46.6	-7.4	54	31.73	33	11.34	29.47	105	85	A	V
	*	5220	109.99	-	-	95.16	32.96	11.41	29.54	105	85	P	V
	*	5220	104.98	-	-	90.15	32.96	11.41	29.54	105	85	A	V
		5369.56	53.35	-20.65	74	38.61	32.9	11.52	29.68	105	85	P	V
		5444.88	45.08	-8.92	54	30.32	32.9	11.61	29.75	105	85	A	V

802.11a CH 48 5240MHz		5126.36	55.03	-18.97	74	40.16	33	11.32	29.45	100	304	P	H
		5076.7	46.37	-7.63	54	31.41	33.09	11.27	29.4	100	304	A	H
	*	5240	109.44	-	-	94.65	32.92	11.43	29.56	100	304	P	H
	*	5240	103.66	-	-	88.87	32.92	11.43	29.56	100	304	A	H
		5447.96	55.03	-18.97	74	40.27	32.9	11.61	29.75	100	304	P	H
		5451.32	45.04	-8.96	54	30.27	32.9	11.62	29.75	100	304	A	H
													H
		5143	56.01	-17.99	74	41.13	33	11.34	29.46	106	98	P	V
		5092.3	46.49	-7.51	54	31.59	33.03	11.29	29.42	106	98	A	V
	*	5240	112.4	-	-	97.61	32.92	11.43	29.56	106	98	P	V
	*	5240	105.69	-	-	90.9	32.92	11.43	29.56	106	98	A	V
		5354.72	54.09	-19.91	74	39.34	32.9	11.51	29.66	106	98	P	V
		5450.2	44.96	-9.04	54	30.19	32.9	11.62	29.75	106	98	A	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 1 5150~5250MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 5+18	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 36 5180MHz		10360	61.83	-6.37	68.2	73.69	38.7	16.6	67.16	100	237	P	H
		15540	53.79	-20.21	74	62.8	37.54	20.06	66.61	199	300	P	H
		15540	44.05	-9.95	54	53.06	37.54	20.06	66.61	199	300	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10360	62.97	-5.23	68.2	74.83	38.7	16.6	67.16	102	328	P	V
		15540	50.15	-23.85	74	59.16	37.54	20.06	66.61	100	11	P	V
		15540	40.78	-13.22	54	49.79	37.54	20.06	66.61	100	11	A	V
													V
													V
													V
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													V
													V

WIFI Ant. 5+18	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	59.26	-8.94	68.2	71.02	38.7	16.66	67.12	100	235	P	H
		15660	55.76	-18.24	74	65.18	37.26	20.11	66.79	197	302	P	H
		15660	43.86	-10.14	54	53.28	37.26	20.11	66.79	197	302	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 44 5220MHz		10440	63.51	-4.69	68.2	75.27	38.7	16.66	67.12	100	328	P	V
		15660	53.88	-20.12	74	63.3	37.26	20.11	66.79	100	306	P	V
		15660	42.84	-11.16	54	52.26	37.26	20.11	66.79	100	306	A	V
													V
													V
													V
													V
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													V
													V
													V

WIFI Ant. 5+18	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	58.69	-9.51	68.2	70.4	38.7	16.69	67.1	100	235	P	H
		15720	53.91	-20.09	74	63.14	37.5	20.15	66.88	198	303	P	H
		15720	41.45	-12.55	54	50.68	37.5	20.15	66.88	198	303	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 48 5240MHz													H
		10480	63.05	-5.15	68.2	74.76	38.7	16.69	67.1	100	327	P	V
		15720	53.97	-20.03	74	63.2	37.5	20.15	66.88	104	310	P	V
		15720	41.03	-12.97	54	50.26	37.5	20.15	66.88	104	310	A	V
													V
													V
													V
													V
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													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 HE20 Full (Band Edge @ 3m)

WIFI Ant. 5+18	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)
		5063.7	56.21	-17.79	74	41.19	33.15	11.26	29.39	100	302	P	H
		5138.58	47.08	-6.92	54	32.2	33	11.34	29.46	100	302	A	H
	*	5180	110	-	-	95.12	33	11.38	29.5	100	302	P	H
	*	5180	102.8	-	-	87.92	33	11.38	29.5	100	302	A	H
802.11ax													H
HE20 Full													H
CH 36		5145.6	55.92	-18.08	74	41.05	33	11.34	29.47	100	95	P	V
5180MHz		5147.16	47.33	-6.67	54	32.46	33	11.34	29.47	100	95	A	V
	*	5180	109.32	-	-	94.44	33	11.38	29.5	100	95	P	V
	*	5180	102.89	-	-	88.01	33	11.38	29.5	100	95	A	V
													V
													V
		5144.56	55.85	-18.15	74	40.98	33	11.34	29.47	100	337	P	H
		5145.34	46.71	-7.29	54	31.84	33	11.34	29.47	100	337	A	H
	*	5220	109.46	-	-	94.63	32.96	11.41	29.54	100	337	P	H
	*	5220	102.72	-	-	87.89	32.96	11.41	29.54	100	337	A	H
		5364.8	55.02	-18.98	74	40.27	32.9	11.52	29.67	100	337	P	H
		5453.56	45.23	-8.77	54	30.47	32.9	11.62	29.76	100	337	A	H
802.11ax													H
HE20 Full													H
CH 44		5039.26	56.16	-17.84	74	41.1	33.2	11.23	29.37	102	88	P	V
5220MHz		5058.76	46.85	-7.15	54	31.83	33.16	11.25	29.39	102	88	A	V
	*	5220	110.18	-	-	95.35	32.96	11.41	29.54	102	88	P	V
	*	5220	102.22	-	-	87.39	32.96	11.41	29.54	102	88	A	V
		5442.64	53.93	-20.07	74	39.17	32.9	11.61	29.75	102	88	P	V
		5457.2	45.23	-8.77	54	30.46	32.9	11.63	29.76	102	88	A	V
													V
													V

		5136.5	55.5	-18.5	74	40.63	33	11.33	29.46	100	305	P	H
		5078.26	46.58	-7.42	54	31.62	33.09	11.27	29.4	100	305	A	H
	*	5240	109.46	-	-	94.67	32.92	11.43	29.56	100	305	P	H
	*	5240	101.61	-	-	86.82	32.92	11.43	29.56	100	305	A	H
		5450.76	53.09	-20.91	74	38.32	32.9	11.62	29.75	100	305	P	H
		5452.72	45.04	-8.96	54	30.28	32.9	11.62	29.76	100	305	A	H
802.11ax													H
HE20 Full													H
CH 48		5086.58	55.82	-18.18	74	40.9	33.05	11.28	29.41	100	92	P	V
5240MHz		5050.96	46.54	-7.46	54	31.48	33.2	11.24	29.38	100	92	A	V
	*	5240	111.56	-	-	96.77	32.92	11.43	29.56	100	92	P	V
	*	5240	103.95	-	-	89.16	32.92	11.43	29.56	100	92	A	V
		5365.92	53.91	-20.09	74	39.16	32.9	11.52	29.67	100	92	P	V
		5370.4	45.04	-8.96	54	30.3	32.9	11.52	29.68	100	92	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 HE20 Full (Harmonic @ 3m)

WIFI Ant. 5+18	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	57.37	-10.83	68.2	69.23	38.7	16.6	67.16	101	237	P	H
		15540	46.31	-27.69	74	55.32	37.54	20.06	66.61	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 36		10360	59.37	-8.83	68.2	71.23	38.7	16.6	67.16	104	328	P	V
5180MHz		15540	49.39	-24.61	74	58.4	37.54	20.06	66.61	100	36	P	V
		15540	37.24	-16.76	54	46.25	37.54	20.06	66.61	100	36	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 5+18	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	61.77	-6.43	68.2	73.53	38.7	16.66	67.12	100	236	P	H
		15660	53.73	-20.27	74	63.15	37.26	20.11	66.79	199	302	P	H
		15660	43.64	-10.36	54	53.06	37.26	20.11	66.79	199	302	A	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 44		10440	64.24	-3.96	68.2	76	38.7	16.66	67.12	100	327	P	V
5220MHz		15660	53.37	-20.63	74	62.79	37.26	20.11	66.79	199	302	P	V
		15660	42.54	-11.46	54	51.96	37.26	20.11	66.79	199	302	A	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 5+18	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	58.8	-9.4	68.2	70.51	38.7	16.69	67.1	100	237	P	H
		15720	47.56	-26.44	74	56.79	37.5	20.15	66.88	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 48		10480	62.9	-5.3	68.2	74.61	38.7	16.69	67.1	102	326	P	V
5240MHz		15720	49.39	-24.61	74	58.62	37.5	20.15	66.88	100	38	P	V
		15720	38.88	-15.12	54	48.11	37.5	20.15	66.88	100	38	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. 5+18	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)
		5044.2	55.98	-18.02	74	40.91	33.2	11.24	29.37	100	341	P	H
		5149.24	45.65	-8.35	54	30.77	33	11.35	29.47	100	341	A	H
	*	5180	109.58	-	-	94.7	33	11.38	29.5	100	341	P	H
802.11ax	*	5180	101.83	-	-	86.95	33	11.38	29.5	100	341	A	H
HE20													H
Partial													H
106/53		5144.56	56.6	-17.4	74	41.73	33	11.34	29.47	100	92	P	V
CH 36		5148.72	46.06	-7.94	54	31.18	33	11.35	29.47	100	92	A	V
5180MHz	*	5180	108.31	-	-	93.43	33	11.38	29.5	100	92	P	V
	*	5180	103.71	-	-	88.83	33	11.38	29.5	100	92	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. 5+18	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)
		5148.72	56.43	-17.57	74	41.55	33	11.35	29.47	100	5	P	H
		5149.76	49.23	-4.77	54	34.35	33	11.35	29.47	100	5	A	H
	*	5190	107.52	-	-	92.64	33	11.39	29.51	100	5	P	H
	*	5190	99.37	-	-	84.49	33	11.39	29.51	100	5	A	H
802.11ax		5383.28	54.39	-19.61	74	39.65	32.9	11.53	29.69	100	5	P	H
HE40 Full		5454.12	45.59	-8.41	54	30.83	32.9	11.62	29.76	100	5	A	H
CH 38		5150	58.37	-15.63	74	43.49	33	11.35	29.47	100	92	P	V
5190MHz		5150	50.74	-3.26	54	35.86	33	11.35	29.47	100	92	A	V
	*	5190	110.54	-	-	95.66	33	11.39	29.51	100	92	P	V
	*	5190	102.05	-	-	87.17	33	11.39	29.51	100	92	A	V
		5354.44	53.14	-20.86	74	38.39	32.9	11.51	29.66	100	92	P	V
		5459.16	45.55	-8.45	54	30.78	32.9	11.63	29.76	100	92	A	V
		5068.64	55.74	-18.26	74	40.74	33.13	11.26	29.39	281	360	P	H
		5060.84	46.89	-7.11	54	31.87	33.16	11.25	29.39	281	360	A	H
	*	5230	106.11	-	-	91.3	32.94	11.42	29.55	281	360	P	H
	*	5230	98.73	-	-	83.92	32.94	11.42	29.55	281	360	A	H
802.11ax		5447.68	53.91	-20.09	74	39.15	32.9	11.61	29.75	281	360	P	H
HE40 Full		5353.32	45.72	-8.28	54	30.97	32.9	11.51	29.66	281	360	A	H
CH 46		5010.4	57.19	-16.81	74	42.13	33.2	11.2	29.34	100	87	P	V
5230MHz		5145.34	48.27	-5.73	54	33.4	33	11.34	29.47	100	87	A	V
	*	5230	108.72	-	-	93.91	32.94	11.42	29.55	100	87	P	V
	*	5230	102.13	-	-	87.32	32.94	11.42	29.55	100	87	A	V
		5352.2	53.8	-20.2	74	39.05	32.9	11.51	29.66	100	87	P	V
		5439.28	45.57	-8.43	54	30.81	32.9	11.6	29.74	100	87	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. 5+18	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	57.15	-11.05	68.2	68.98	38.7	16.62	67.15	101	14	P	H
		15570	46.77	-27.23	74	55.9	37.46	20.07	66.66	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 38		10380	58.07	-10.13	68.2	69.9	38.7	16.62	67.15	100	328	P	V
5190MHz		15570	46.26	-27.74	74	55.39	37.46	20.07	66.66	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 5+18	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	58.51	-9.69	68.2	70.24	38.7	16.68	67.11	100	13	P	H
		15690	54.17	-19.83	74	63.44	37.44	20.13	66.84	200	307	P	H
		15690	43.74	-10.26	54	53.01	37.44	20.13	66.84	200	307	A	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 46		10460	60.79	-7.41	68.2	72.52	38.7	16.68	67.11	101	327	P	V
5230MHz		15690	52.26	-21.74	74	61.53	37.44	20.13	66.84	100	37	P	V
		15690	42.95	-11.05	54	52.22	37.44	20.13	66.84	100	37	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 Full (Band Edge @ 3m)

WIFI Ant. 5+18	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)
		5137.8	56.04	-17.96	74	41.17	33	11.33	29.46	145	3	P	H
		5149.76	49.18	-4.82	54	34.3	33	11.35	29.47	145	3	A	H
	*	5210	98.43	-	-	83.57	32.98	11.41	29.53	145	3	P	H
	*	5210	90.11	-	-	75.25	32.98	11.41	29.53	145	3	A	H
		5409.6	53.24	-20.76	74	38.51	32.9	11.55	29.72	145	3	P	H
		5370.68	45.87	-8.13	54	31.13	32.9	11.52	29.68	145	3	A	H
802.11ax													H
HE80 Full													H
CH 42		5149.5	57.04	-16.96	74	42.16	33	11.35	29.47	100	99	P	V
5210MHz		5150	50.57	-3.43	54	35.69	33	11.35	29.47	100	99	A	V
	*	5210	101.36	-	-	86.5	32.98	11.41	29.53	100	99	P	V
	*	5210	92.6	-	-	77.74	32.98	11.41	29.53	100	99	A	V
		5405.12	53.19	-20.81	74	38.45	32.9	11.55	29.71	100	99	P	V
		5454.96	46.27	-7.73	54	31.5	32.9	11.63	29.76	100	99	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 HE80 Full (Harmonic @ 3m)

WIFI Ant. 5+18	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	47.04	-21.16	68.2	58.83	38.7	16.64	67.13	-	-	P	H
		15630	45.84	-28.16	74	55.21	37.28	20.1	66.75	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 42		10420	47.24	-20.96	68.2	59.03	38.7	16.64	67.13	-	-	P	V
5210MHz		15630	46.46	-27.54	74	55.83	37.28	20.1	66.75	-	-	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 1 5150~5250MHz

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

WIFI Ant. 5+18	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		5050.96	56.53	-17.47	74	41.47	33.2	11.24	29.38	115	8	P	H
		5127.4	49.52	-4.48	54	34.65	33	11.32	29.45	115	8	A	H
	*	5250	94.41	-	-	79.64	32.9	11.43	29.56	115	8	P	H
	*	5250	86.29	-	-	71.52	32.9	11.43	29.56	115	8	A	H
		5446.84	55.07	-18.93	74	40.31	32.9	11.61	29.75	115	8	P	H
		5386.36	47.44	-6.56	54	32.7	32.9	11.53	29.69	115	8	A	H
		5092.56	58.75	-15.25	74	43.85	33.03	11.29	29.42	100	95	P	V
		5097.24	50.61	-3.39	54	35.73	33.01	11.29	29.42	100	95	A	V
	*	5250	99.14	-	-	84.37	32.9	11.43	29.56	100	95	P	V
	*	5250	89.24	-	-	74.47	32.9	11.43	29.56	100	95	A	V
		5353.32	55.65	-18.35	74	40.9	32.9	11.51	29.66	100	95	P	V
		5351.08	47.14	-6.86	54	32.39	32.9	11.51	29.66	100	95	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. 5+18	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	46.03	-22.17	68.2	57.71	38.7	16.71	67.09	-	-	P	H
		15750	45.53	-28.47	74	54.8	37.5	20.16	66.93	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 50		10500	45.73	-22.47	68.2	57.41	38.7	16.71	67.09	-	-	P	V
5250MHz		15750	45.47	-28.53	74	54.74	37.5	20.16	66.93	-	-	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 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 5+18	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		5040.8	56.69	-17.31	74	41.63	33.2	11.23	29.37	311	360	P	H
		5071.74	46.47	-7.53	54	31.49	33.11	11.27	29.4	311	360	A	H
	*	5260	108.63	-	-	93.84	32.92	11.44	29.57	311	360	P	H
	*	5260	103.36	-	-	88.57	32.92	11.44	29.57	311	360	A	H
		5452.08	54.02	-19.98	74	39.25	32.9	11.62	29.75	311	360	P	H
		5418.24	45	-9	54	30.25	32.9	11.57	29.72	311	360	A	H
													H
		5070.72	56.05	-17.95	74	41.07	33.12	11.26	29.4	100	87	P	V
		5053.38	46.59	-7.41	54	31.53	33.19	11.25	29.38	100	87	A	V
	*	5260	112.1	-	-	97.31	32.92	11.44	29.57	100	87	P	V
	*	5260	106.51	-	-	91.72	32.92	11.44	29.57	100	87	A	V
		5455.2	53.65	-20.35	74	38.88	32.9	11.63	29.76	100	87	P	V
		5353.2	44.98	-9.02	54	30.23	32.9	11.51	29.66	100	87	A	V
													V
802.11a CH 60 5300MHz		5103.36	55.83	-18.17	74	40.96	33	11.3	29.43	128	7	P	H
		5063.24	46.64	-7.36	54	31.62	33.15	11.26	29.39	128	7	A	H
	*	5300	110.33	-	-	95.47	33	11.47	29.61	128	7	P	H
	*	5300	103.92	-	-	89.06	33	11.47	29.61	128	7	A	H
		5352	55.1	-18.9	74	40.35	32.9	11.51	29.66	128	7	P	H
		5358	45.3	-8.7	54	30.56	32.9	11.51	29.67	128	7	A	H
													H
		5053.38	55.1	-18.9	74	40.04	33.19	11.25	29.38	400	37	P	V
		5073.44	46.53	-7.47	54	31.55	33.11	11.27	29.4	400	37	A	V
	*	5300	109.68	-	-	94.82	33	11.47	29.61	400	37	P	V
	*	5300	103.61	-	-	88.75	33	11.47	29.61	400	37	A	V
		5427.12	54.39	-19.61	74	39.64	32.9	11.58	29.73	400	37	P	V
		5350.8	45.14	-8.86	54	30.39	32.9	11.51	29.66	400	37	A	V
													V

802.11a CH 64 5320MHz	*	5320	109.51	-	-	94.7	32.96	11.48	29.63	100	320	P	H
	*	5320	103.02	-	-	88.21	32.96	11.48	29.63	100	320	A	H
		5361.44	54.15	-19.85	74	39.41	32.9	11.51	29.67	100	320	P	H
		5354.24	45.65	-8.35	54	30.9	32.9	11.51	29.66	100	320	A	H
													H
													H
	*	5320	110.43	-	-	95.62	32.96	11.48	29.63	400	143	P	V
	*	5320	103.83	-	-	89.02	32.96	11.48	29.63	400	143	A	V
		5455.36	54.5	-19.5	74	39.73	32.9	11.63	29.76	400	143	P	V
		5351.36	45.52	-8.48	54	30.77	32.9	11.51	29.66	400	143	A	V
													V
													V

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

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 5+18	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	57.88	-10.32	68.2	69.46	38.74	16.73	67.05	104	237	P	H
		15780	53.69	-20.31	74	63.24	37.26	20.17	66.98	200	304	P	H
		15780	42.68	-11.32	54	52.23	37.26	20.17	66.98	200	304	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10520	61.25	-6.95	68.2	72.83	38.74	16.73	67.05	100	327	P	V
		15780	55.12	-18.88	74	64.67	37.26	20.17	66.98	100	37	P	V
		15780	43.43	-10.57	54	52.98	37.26	20.17	66.98	100	37	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 5+18	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	57.31	-16.69	74	68.42	39	16.79	66.9	100	234	P	H
		10600	46.8	-7.2	54	57.91	39	16.79	66.9	100	234	A	H
		15900	53.41	-20.59	74	63.15	37.2	20.22	67.16	198	302	P	H
		15900	41.84	-12.16	54	51.58	37.2	20.22	67.16	198	302	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 60 5300MHz		10600	60.57	-13.43	74	71.68	39	16.79	66.9	100	320	P	V
		10600	49.75	-4.25	54	60.86	39	16.79	66.9	100	320	A	V
		15900	53.18	-20.82	74	62.92	37.2	20.22	67.16	100	315	P	V
		15900	42.61	-11.39	54	52.35	37.2	20.22	67.16	100	315	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 5+18	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	53.77	-20.23	74	64.62	39.16	16.82	66.83	100	235	P	H
		10640	44.6	-9.4	54	55.45	39.16	16.82	66.83	100	235	A	H
		15960	51.63	-22.37	74	61.22	37.42	20.24	67.25	201	305	P	H
		15960	43.18	-10.82	54	52.77	37.42	20.24	67.25	201	305	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 64 5320MHz		10640	56.88	-17.12	74	67.73	39.16	16.82	66.83	100	321	P	V
		10640	47.48	-6.52	54	58.33	39.16	16.82	66.83	100	321	A	V
		15960	52.55	-21.45	74	62.14	37.42	20.24	67.25	100	40	P	V
		15960	42.93	-11.07	54	52.52	37.42	20.24	67.25	100	40	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.

Band 2 5250~5350MHz

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

WIFI Ant. 5+18	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)
		5091.46	55	-19	74	40.1	33.03	11.29	29.42	138	6	P	H
		5066.64	46.66	-7.34	54	31.66	33.13	11.26	29.39	138	6	A	H
	*	5260	109.96	-	-	95.17	32.92	11.44	29.57	138	6	P	H
	*	5260	102.62	-	-	87.83	32.92	11.44	29.57	138	6	A	H
		5453.52	54.76	-19.24	74	40	32.9	11.62	29.76	138	6	P	H
802.11ax		5366.88	45.2	-8.8	54	30.45	32.9	11.52	29.67	138	6	A	H
HE20 Full													H
CH 52		5033.66	56.25	-17.75	74	41.18	33.2	11.23	29.36	100	87	P	V
5260MHz		5042.5	47	-7	54	31.94	33.2	11.23	29.37	100	87	A	V
	*	5260	112.06	-	-	97.27	32.92	11.44	29.57	100	87	P	V
	*	5260	105.28	-	-	90.49	32.92	11.44	29.57	100	87	A	V
		5387.76	53.93	-20.07	74	39.19	32.9	11.53	29.69	100	87	P	V
		5458.56	45.14	-8.86	54	30.37	32.9	11.63	29.76	100	87	A	V
													V
		5022.44	56.21	-17.79	74	41.15	33.2	11.21	29.35	108	8	P	H
		5060.86	46.84	-7.16	54	31.82	33.16	11.25	29.39	108	8	A	H
	*	5300	110.33	-	-	95.47	33	11.47	29.61	108	8	P	H
	*	5300	102.28	-	-	87.42	33	11.47	29.61	108	8	A	H
		5396.88	54.86	-19.14	74	40.12	32.9	11.54	29.7	108	8	P	H
802.11ax		5354.16	45.62	-8.38	54	30.87	32.9	11.51	29.66	108	8	A	H
HE20 Full		5077.52	54.85	-19.15	74	39.89	33.09	11.27	29.4	400	38	P	V
CH 60		5066.64	46.78	-7.22	54	31.78	33.13	11.26	29.39	400	38	A	V
5300MHz	*	5300	109.26	-	-	94.4	33	11.47	29.61	400	38	P	V
	*	5300	102.19	-	-	87.33	33	11.47	29.61	400	38	A	V
		5351.28	53.93	-20.07	74	39.18	32.9	11.51	29.66	400	38	P	V
		5356.08	45.29	-8.71	54	30.54	32.9	11.51	29.66	400	38	A	V
													V

	*	5320	109.13	-	-	94.32	32.96	11.48	29.63	306	360	P	H
	*	5320	101.81	-	-	87	32.96	11.48	29.63	306	360	A	H
		5371.04	55.05	-18.95	74	40.31	32.9	11.52	29.68	306	360	P	H
		5350.88	46.22	-7.78	54	31.47	32.9	11.51	29.66	306	360	A	H
802.11ax													H
HE20 Full													H
CH 64	*	5320	109.87	-	-	95.06	32.96	11.48	29.63	399	142	P	V
5320MHz	*	5320	103.33	-	-	88.52	32.96	11.48	29.63	399	142	A	V
		5360	54.42	-19.58	74	39.68	32.9	11.51	29.67	399	142	P	V
		5351.52	45.9	-8.1	54	31.15	32.9	11.51	29.66	399	142	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. 5+18	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	57.72	-10.48	68.2	69.3	38.74	16.73	67.05	102	238	P	H
		15780	55.43	-18.57	74	64.98	37.26	20.17	66.98	201	306	P	H
		15780	44.76	-9.24	54	54.31	37.26	20.17	66.98	201	306	A	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 52		10520	61.88	-6.32	68.2	73.46	38.74	16.73	67.05	100	316	P	V
5260MHz		15780	55.27	-18.73	74	64.82	37.26	20.17	66.98	100	38	P	V
		15780	44.41	-9.59	54	53.96	37.26	20.17	66.98	100	38	A	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 5+18	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	57.62	-16.38	74	68.73	39	16.79	66.9	100	234	P	H
		10600	46.67	-7.33	54	57.78	39	16.79	66.9	100	234	A	H
		15900	51.83	-22.17	74	61.57	37.2	20.22	67.16	198	302	P	H
		15900	42.05	-11.95	54	51.79	37.2	20.22	67.16	198	302	A	H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 60		10600	60.22	-13.78	74	71.33	39	16.79	66.9	101	320	P	V
5300MHz		10600	50.21	-3.79	54	61.32	39	16.79	66.9	101	320	A	V
		15900	51.55	-22.45	74	61.29	37.2	20.22	67.16	100	315	P	V
		15900	42.57	-11.43	54	52.31	37.2	20.22	67.16	100	315	A	V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 5+18	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	53	-21	74	63.85	39.16	16.82	66.83	100	239	P	H
		10640	43.85	-10.15	54	54.7	39.16	16.82	66.83	100	239	A	H
		15960	45.82	-28.18	74	55.4	37.43	20.25	67.26	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 64		10640	57.04	-16.96	74	67.89	39.16	16.82	66.83	100	327	P	V
5320MHz		10640	47.37	-6.63	54	58.22	39.16	16.82	66.83	100	327	A	V
		15960	46.84	-27.16	74	56.43	37.42	20.24	67.25	-	-	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 2 5250~5350MHz

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

WIFI Ant. 5+18	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)
	*	5320	109.47	-	-	94.66	32.96	11.48	29.63	100	348	P	H
	*	5320	101.43	-	-	86.62	32.96	11.48	29.63	100	348	A	H
		5375.68	54.38	-19.62	74	39.64	32.9	11.52	29.68	100	348	P	H
802.11ax		5350.56	44.33	-9.67	54	29.58	32.9	11.51	29.66	100	348	A	H
HE20													H
Partial													H
106/54	*	5320	109.92	-	-	95.11	32.96	11.48	29.63	400	40	P	V
CH 64	*	5320	101.59	-	-	86.78	32.96	11.48	29.63	400	40	A	V
5320MHz		5428.8	54.78	-19.22	74	40.03	32.9	11.58	29.73	400	40	P	V
		5351.68	44.32	-9.68	54	29.57	32.9	11.51	29.66	400	40	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 HE40 Full (Band Edge @ 3m)

WIFI Ant. 5+18	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)
		5060.18	55.2	-18.8	74	40.18	33.16	11.25	29.39	124	7	P	H
		5078.88	47.18	-6.82	54	32.23	33.08	11.27	29.4	124	7	A	H
	*	5270	108.18	-	-	93.37	32.94	11.45	29.58	124	7	P	H
	*	5270	100.89	-	-	86.08	32.94	11.45	29.58	124	7	A	H
802.11ax		5361.36	53.94	-20.06	74	39.2	32.9	11.51	29.67	124	7	P	H
HE40 Full		5350.8	46.67	-7.33	54	31.92	32.9	11.51	29.66	124	7	A	H
CH 54		5115.6	55.49	-18.51	74	40.62	33	11.31	29.44	100	99	P	V
5270MHz		5054.74	47.29	-6.71	54	32.24	33.18	11.25	29.38	100	99	A	V
	*	5270	108.27	-	-	93.46	32.94	11.45	29.58	100	99	P	V
	*	5270	100.73	-	-	85.92	32.94	11.45	29.58	100	99	A	V
		5354.88	54.54	-19.46	74	39.79	32.9	11.51	29.66	100	99	P	V
		5354.16	46.6	-7.4	54	31.85	32.9	11.51	29.66	100	99	A	V
		5149.94	55.91	-18.09	74	41.03	33	11.35	29.47	360	360	P	H
		5072.76	47.15	-6.85	54	32.17	33.11	11.27	29.4	360	360	A	H
	*	5310	105.13	-	-	90.29	32.98	11.48	29.62	360	360	P	H
	*	5310	97.44	-	-	82.6	32.98	11.48	29.62	360	360	A	H
802.11ax		5362.56	54.75	-19.25	74	40.01	32.9	11.51	29.67	360	360	P	H
HE40 Full		5350.08	46.94	-7.06	54	32.19	32.9	11.51	29.66	360	360	A	H
CH 62		5005.1	55.19	-18.81	74	40.12	33.2	11.2	29.33	392	43	P	V
5310MHz		5064.6	46.98	-7.02	54	31.97	33.14	11.26	29.39	392	43	A	V
	*	5310	105.31	-	-	90.47	32.98	11.48	29.62	392	43	P	V
	*	5310	98.51	-	-	83.67	32.98	11.48	29.62	392	43	A	V
		5358.96	55.49	-18.51	74	40.75	32.9	11.51	29.67	392	43	P	V
		5350.56	47.75	-6.25	54	33	32.9	11.51	29.66	392	43	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. 5+18	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	53.52	-14.68	68.2	65.03	38.78	16.73	67.02	109	238	P	H
		15810	45.11	-28.89	74	54.87	37.08	20.18	67.02	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 54		10540	57.95	-10.25	68.2	69.46	38.78	16.73	67.02	100	328	P	V
5270MHz		15810	46.95	-27.05	74	56.71	37.08	20.18	67.02	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 5+18	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)
		10620	51.73	-22.27	74	62.72	39.08	16.8	66.87	104	238	P	H
		10620	43.41	-10.59	54	54.4	39.08	16.8	66.87	104	238	A	H
		15930	45.32	-28.68	74	54.97	37.32	20.23	67.2	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 62		10620	56.32	-17.68	74	67.31	39.08	16.8	66.87	100	327	P	V
5310MHz		10620	46.25	-7.75	54	57.24	39.08	16.8	66.87	100	327	A	V
		15930	45.95	-28.05	74	55.6	37.32	20.23	67.2	-	-	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 2 5250~5350MHz

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

WIFI Ant. 5+18	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		5045.9	55.01	-18.99	74	39.94	33.2	11.24	29.37	297	360	P	H
		5060.18	47.55	-6.45	54	32.53	33.16	11.25	29.39	297	360	A	H
	*	5290	98.77	-	-	83.93	32.98	11.46	29.6	297	360	P	H
	*	5290	90.65	-	-	75.81	32.98	11.46	29.6	297	360	A	H
		5357.28	55.67	-18.33	74	40.93	32.9	11.51	29.67	297	360	P	H
		5350.08	49.66	-4.34	54	34.91	32.9	11.51	29.66	297	360	A	H
		5044.88	56.03	-17.97	74	40.96	33.2	11.24	29.37	394	42	P	V
		5069.7	47.59	-6.41	54	32.61	33.12	11.26	29.4	394	42	A	V
	*	5290	100.56	-	-	85.72	32.98	11.46	29.6	394	42	P	V
	*	5290	92.6	-	-	77.76	32.98	11.46	29.6	394	42	A	V
		5361.84	56.04	-17.96	74	41.3	32.9	11.51	29.67	394	42	P	V
		5350.32	50.33	-3.67	54	35.58	32.9	11.51	29.66	394	42	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. 5+18	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	45.8	-22.4	68.2	57.05	38.92	16.77	66.94	-	-	P	H
		15870	45.45	-28.55	74	55.27	37.08	20.21	67.11	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 58		10580	46.85	-21.35	68.2	58.1	38.92	16.77	66.94	-	-	P	V
5290MHz		15870	45.56	-28.44	74	55.38	37.08	20.21	67.11	-	-	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 802.11a (Band Edge @ 3m)

WIFI Ant. 5+18	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 100 5500MHz		5351.76	54.49	-19.51	74	39.74	32.9	11.51	29.66	100	23	P	H
		5462.16	54.34	-13.86	68.2	39.56	32.9	11.64	29.76	100	23	P	H
		5457.04	46.07	-7.93	54	31.3	32.9	11.63	29.76	100	23	A	H
	*	5500	109.93	-	-	95.14	32.9	11.69	29.8	100	23	P	H
	*	5500	102.7	-	-	87.91	32.9	11.69	29.8	100	23	A	H
													H
		5456.88	54.19	-19.81	74	39.42	32.9	11.63	29.76	100	302	P	V
		5463.12	53.48	-14.72	68.2	38.71	32.9	11.64	29.77	100	302	P	V
		5451.28	45.84	-8.16	54	31.07	32.9	11.62	29.75	100	302	A	V
	*	5500	110.13	-	-	95.34	32.9	11.69	29.8	100	302	P	V
	*	5500	104.87	-	-	90.08	32.9	11.69	29.8	100	302	A	V
													V
802.11a CH 116 5580MHz		5442.4	54	-20	74	39.24	32.9	11.61	29.75	100	26	P	H
		5465.44	53.72	-14.48	68.2	38.95	32.9	11.64	29.77	100	26	P	H
		5427.76	45.28	-8.72	54	30.53	32.9	11.58	29.73	100	26	A	H
	*	5580	109.09	-	-	94.2	32.9	11.82	29.83	100	26	P	H
	*	5580	101.15	-	-	86.26	32.9	11.82	29.83	100	26	A	H
		5739.17	55.1	-13.1	68.2	39.4	33.64	11.96	29.9	100	26	P	H
		5435.2	53.11	-20.89	74	38.36	32.9	11.59	29.74	100	277	P	V
		5465.68	53.34	-14.86	68.2	38.57	32.9	11.64	29.77	100	277	P	V
		5456.08	45.33	-8.67	54	30.56	32.9	11.63	29.76	100	277	A	V
	*	5580	112.1	-	-	97.21	32.9	11.82	29.83	100	277	P	V
	*	5580	106.34	-	-	91.45	32.9	11.82	29.83	100	277	A	V
		5765	55.03	-13.17	68.2	39.2	33.76	11.98	29.91	100	277	P	V

802.11a CH 140 5700MHz	*	5700	108.21	-	-	92.76	33.4	11.93	29.88	100	122	P	H
	*	5700	100.75	-	-	85.3	33.4	11.93	29.88	100	122	A	H
		5729.64	55.91	-12.29	68.2	40.27	33.58	11.95	29.89	100	122	P	H
													H
													H
													H
	*	5700	113.76	-	-	98.31	33.4	11.93	29.88	100	276	P	V
	*	5700	107.65	-	-	92.2	33.4	11.93	29.88	100	276	A	V
		5725.56	57.22	-10.98	68.2	41.61	33.55	11.95	29.89	100	276	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. 5+18	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	47.68	-26.32	74	57.94	38.8	17.1	66.16	-	-	P	H
		16500	48.95	-19.25	68.2	56.68	38.3	20.92	66.95	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 100 5500MHz													H
		11000	51.46	-22.54	74	61.72	38.8	17.1	66.16	100	29	P	V
		11000	42.09	-11.91	54	52.35	38.8	17.1	66.16	100	29	A	V
		16500	48.26	-19.94	68.2	55.99	38.3	20.92	66.95	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 5+18	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	51.01	-22.99	74	61.06	39	17.21	66.26	100	259	P	H
		11160	41.92	-12.08	54	51.97	39	17.21	66.26	100	259	A	H
		16740	49.95	-18.25	68.2	57.21	38.22	21.24	66.72	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 116 5580MHz		11160	52.22	-21.78	74	62.27	39	17.21	66.26	100	303	P	V
		11160	42.78	-11.22	54	52.83	39	17.21	66.26	100	303	A	V
		16740	50.3	-17.9	68.2	57.56	38.22	21.24	66.72	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 5+18	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	53.21	-20.79	74	63.14	39.1	17.39	66.42	100	35	P	H
		11400	42.05	-11.95	54	51.98	39.1	17.39	66.42	100	35	A	H
		17100	47.83	-20.37	68.2	54.44	38.1	21.63	66.34	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11a CH 140 5700MHz		11400	52.87	-21.13	74	62.8	39.1	17.39	66.42	100	17	P	V
		11400	42.01	-11.99	54	51.94	39.1	17.39	66.42	100	17	A	V
		17100	48.6	-19.6	68.2	55.21	38.1	21.63	66.34	-	-	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 HE20 Full (Band Edge @ 3m)

WIFI Ant. 5+18	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)
		5459.28	57.38	-16.62	74	42.61	32.9	11.63	29.76	100	21	P	H
		5468.56	59.74	-8.46	68.2	44.96	32.9	11.65	29.77	100	21	P	H
		5458.32	46.34	-7.66	54	31.57	32.9	11.63	29.76	100	21	A	H
	*	5500	109.54	-	-	94.75	32.9	11.69	29.8	100	21	P	H
802.11ax	*	5500	102.71	-	-	87.92	32.9	11.69	29.8	100	21	A	H
HE20 Full		5457.36	56.13	-17.87	74	41.36	32.9	11.63	29.76	100	282	P	V
CH 100		5469.36	63	-5.2	68.2	48.22	32.9	11.65	29.77	100	282	P	V
5500MHz		5459.92	48.43	-5.57	54	33.66	32.9	11.63	29.76	100	282	A	V
	*	5500	109.7	-	-	94.91	32.9	11.69	29.8	100	282	P	V
	*	5500	103.32	-	-	88.53	32.9	11.69	29.8	100	282	A	V
													V
													V
		5457.28	54.57	-19.43	74	39.8	32.9	11.63	29.76	100	121	P	H
		5465.68	53.04	-15.16	68.2	38.27	32.9	11.64	29.77	100	121	P	H
		5441.2	45.33	-8.67	54	30.57	32.9	11.6	29.74	100	121	A	H
	*	5580	108.08	-	-	93.19	32.9	11.82	29.83	100	121	P	H
802.11ax	*	5580	100.77	-	-	85.88	32.9	11.82	29.83	100	121	A	H
HE20 Full		5762.795	54.94	-13.26	68.2	39.12	33.75	11.98	29.91	100	121	P	H
CH 116		5443.84	54.43	-19.57	74	39.67	32.9	11.61	29.75	100	264	P	V
5580MHz		5460.64	52.66	-15.54	68.2	37.89	32.9	11.63	29.76	100	264	P	V
		5458	45.62	-8.38	54	30.85	32.9	11.63	29.76	100	264	A	V
	*	5580	111.44	-	-	96.55	32.9	11.82	29.83	100	264	P	V
	*	5580	105	-	-	90.11	32.9	11.82	29.83	100	264	A	V
		5764.055	55.53	-12.67	68.2	39.7	33.76	11.98	29.91	100	264	P	V

	*	5700	104.47	-	-	89.02	33.4	11.93	29.88	100	121	P	H
	*	5700	98.85	-	-	83.4	33.4	11.93	29.88	100	121	A	H
		5725.32	57.79	-10.41	68.2	42.18	33.55	11.95	29.89	100	121	P	H
													H
802.11ax													H
HE20 Full													H
CH 140	*	5700	111.3	-	-	95.85	33.4	11.93	29.88	100	304	P	V
5700MHz	*	5700	104.75	-	-	89.3	33.4	11.93	29.88	100	304	A	V
		5725.32	64.87	-3.33	68.2	49.26	33.55	11.95	29.89	100	304	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. 5+18	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	49.17	-24.83	74	59.43	38.8	17.1	66.16	100	4	P	H
		11000	39.6	-14.4	54	49.86	38.8	17.1	66.16	100	4	A	H
		16500	48.3	-19.9	68.2	56.03	38.3	20.92	66.95	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 100		11000	52.57	-21.43	74	62.83	38.8	17.1	66.16	100	30	P	V
5500MHz		11000	42.12	-11.88	54	52.38	38.8	17.1	66.16	100	30	A	V
		16500	48.73	-19.47	68.2	56.46	38.3	20.92	66.95	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 5+18	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	50.75	-23.25	74	60.8	39	17.21	66.26	100	262	P	H
		11160	41.31	-12.69	54	51.36	39	17.21	66.26	100	262	A	H
		16740	50.44	-17.76	68.2	57.7	38.22	21.24	66.72	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 116		11160	52.13	-21.87	74	62.18	39	17.21	66.26	100	23	P	V
5580MHz		11160	42.87	-11.13	54	52.92	39	17.21	66.26	100	23	A	V
		16740	50.85	-17.35	68.2	58.11	38.22	21.24	66.72	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 5+18	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	46.9	-27.1	74	56.83	39.1	17.39	66.42	-	-	P	H
		17100	47.53	-20.67	68.2	54.14	38.1	21.63	66.34	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 140		11400	50.3	-23.7	74	60.23	39.1	17.39	66.42	101	16	P	V
5700MHz		11400	40.46	-13.54	54	50.39	39.1	17.39	66.42	101	16	A	V
		17100	47.65	-20.55	68.2	54.26	38.1	21.63	66.34	-	-	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 HE20 Partial 106 (Band Edge @ 3m)

WIFI Ant. 5+18	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)
		5398	54.51	-19.49	74	39.77	32.9	11.54	29.7	100	21	P	H
		5467.92	54.3	-13.9	68.2	39.52	32.9	11.65	29.77	100	21	P	H
		5457.84	44.62	-9.38	54	29.85	32.9	11.63	29.76	100	21	A	H
802.11ax	*	5500	108.09	-	-	93.3	32.9	11.69	29.8	100	21	P	H
HE20	*	5500	100.76	-	-	85.97	32.9	11.69	29.8	100	21	A	H
Partial													H
106/53		5427.76	55.74	-18.26	74	40.99	32.9	11.58	29.73	100	271	P	V
CH 100		5469.2	55.14	-13.06	68.2	40.36	32.9	11.65	29.77	100	271	P	V
5500MHz		5458.96	44.78	-9.22	54	30.01	32.9	11.63	29.76	100	271	A	V
	*	5500	111.15	-	-	96.36	32.9	11.69	29.8	100	271	P	V
	*	5500	102.88	-	-	88.09	32.9	11.69	29.8	100	271	A	V
													V
	*	5700	105.98	-	-	90.53	33.4	11.93	29.88	400	60	P	H
	*	5700	99.08	-	-	83.63	33.4	11.93	29.88	400	60	A	H
		5759.72	56.26	-11.94	68.2	40.44	33.74	11.98	29.9	400	60	P	H
802.11ax													H
HE20													H
Partial													H
106/54	*	5700	112.14	-	-	96.69	33.4	11.93	29.88	100	284	P	V
CH 140	*	5700	103.96	-	-	88.51	33.4	11.93	29.88	100	284	A	V
5700MHz		5744.12	56.25	-11.95	68.2	40.52	33.66	11.97	29.9	100	284	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. 5+18	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 102 5510MHz		5422.72	54.8	-19.2	74	40.05	32.9	11.58	29.73	100	27	P	H
		5466.4	54.18	-14.02	68.2	39.41	32.9	11.64	29.77	100	27	P	H
		5459.44	47.33	-6.67	54	32.56	32.9	11.63	29.76	100	27	A	H
	*	5510	107.45	-	-	92.64	32.9	11.71	29.8	100	27	P	H
	*	5510	98.27	-	-	83.46	32.9	11.71	29.8	100	27	A	H
		5754.605	53.28	-14.92	68.2	37.49	33.72	11.97	29.9	100	27	P	H
		5458	56.52	-17.48	74	41.75	32.9	11.63	29.76	100	306	P	V
		5465.92	58.22	-9.98	68.2	43.45	32.9	11.64	29.77	100	306	P	V
		5458.24	48.5	-5.5	54	33.73	32.9	11.63	29.76	100	306	A	V
	*	5510	106.99	-	-	92.18	32.9	11.71	29.8	100	306	P	V
	*	5510	101.22	-	-	86.41	32.9	11.71	29.8	100	306	A	V
		5731.61	54.89	-13.31	68.2	39.23	33.59	11.96	29.89	100	306	P	V
802.11ax HE40 Full CH 110 5550MHz		5455.12	54.53	-19.47	74	39.76	32.9	11.63	29.76	100	308	P	H
		5462.56	53.29	-14.91	68.2	38.51	32.9	11.64	29.76	100	308	P	H
		5459.92	45.92	-8.08	54	31.15	32.9	11.63	29.76	100	308	A	H
	*	5550	105.11	-	-	90.26	32.9	11.77	29.82	100	308	P	H
	*	5550	98.58	-	-	83.73	32.9	11.77	29.82	100	308	A	H
		5761.85	54.04	-14.16	68.2	38.21	33.75	11.98	29.9	100	308	P	H
		5459.2	55.39	-18.61	74	40.62	32.9	11.63	29.76	100	280	P	V
		5467.12	55.16	-13.04	68.2	40.39	32.9	11.64	29.77	100	280	P	V
		5458	46.54	-7.46	54	31.77	32.9	11.63	29.76	100	280	A	V
	*	5550	108	-	-	93.15	32.9	11.77	29.82	100	280	P	V
	*	5550	102.22	-	-	87.37	32.9	11.77	29.82	100	280	A	V
		5761.22	55.21	-12.99	68.2	39.39	33.74	11.98	29.9	100	280	P	V
													V

		5372.05	53.79	-20.21	74	39.05	32.9	11.52	29.68	100	59	P	H
		5460.95	53.56	-14.64	68.2	38.79	32.9	11.63	29.76	100	59	P	H
		5459.9	45.6	-8.4	54	30.83	32.9	11.63	29.76	100	59	A	H
	*	5670	107	-	-	91.74	33.22	11.91	29.87	100	59	P	H
802.11ax	*	5670	98.99	-	-	83.73	33.22	11.91	29.87	100	59	A	H
HE40 Full		5758.175	55.77	-12.43	68.2	39.96	33.73	11.98	29.9	100	59	P	H
CH 134		5454.3	53.34	-20.66	74	38.58	32.9	11.62	29.76	100	275	P	V
5670MHz		5462	53.11	-15.09	68.2	38.33	32.9	11.64	29.76	100	275	P	V
		5455.7	45.95	-8.05	54	31.18	32.9	11.63	29.76	100	275	A	V
	*	5670	110.37	-	-	95.11	33.22	11.91	29.87	100	275	P	V
	*	5670	104.01	-	-	88.75	33.22	11.91	29.87	100	275	A	V
		5735.6	58.74	-9.46	68.2	43.06	33.61	11.96	29.89	100	275	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. 5+18	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	48.35	-25.65	74	58.64	38.76	17.12	66.17	100	274	P	H
		11020	39.35	-14.65	54	49.64	38.76	17.12	66.17	100	274	A	H
		16530	47.04	-21.16	68.2	54.94	38.06	20.96	66.92	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 102		11020	50.32	-23.68	74	60.61	38.76	17.12	66.17	100	29	P	V
5510MHz		11020	41.23	-12.77	54	51.52	38.76	17.12	66.17	100	29	A	V
		16530	48.09	-20.11	68.2	55.99	38.06	20.96	66.92	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 5+18	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	48.61	-25.39	74	58.75	38.9	17.18	66.22	100	279	P	H
		11100	39.76	-14.24	54	49.9	38.9	17.18	66.22	100	279	A	H
		16650	47.78	-20.42	68.2	55.27	38.2	21.12	66.81	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 110		11100	47.63	-26.37	74	57.77	38.9	17.18	66.22	-	-	P	V
5550MHz		16650	48	-20.2	68.2	55.49	38.2	21.12	66.81	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 5+18	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	47.58	-26.42	74	57.51	39.1	17.35	66.38	-	-	P	H
		17010	47.66	-20.54	68.2	54.49	38.06	21.58	66.47	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 134		11340	47.69	-26.31	74	57.62	39.1	17.35	66.38	-	-	P	V
5670MHz		17010	48.51	-19.69	68.2	55.34	38.06	21.58	66.47	-	-	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 Full (Band Edge @ 3m)

WIFI Ant. 5+18	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)
		5436.64	56.39	-17.61	74	41.63	32.9	11.6	29.74	100	15	P	H
		5466.16	57.14	-11.06	68.2	42.37	32.9	11.64	29.77	100	15	P	H
		5432.32	50.51	-3.49	54	35.76	32.9	11.59	29.74	100	15	A	H
	*	5530	98.29	-	-	83.46	32.9	11.74	29.81	100	15	P	H
802.11ax	*	5530	89.31	-	-	74.48	32.9	11.74	29.81	100	15	A	H
HE80 Full		5759.015	55.35	-12.85	68.2	39.53	33.74	11.98	29.9	100	15	P	H
CH 106		5444.56	57.88	-16.12	74	43.12	32.9	11.61	29.75	100	280	P	V
5530MHz		5469.52	58.43	-9.77	68.2	43.65	32.9	11.65	29.77	100	280	P	V
		5439.04	50.63	-3.37	54	35.87	32.9	11.6	29.74	100	280	A	V
	*	5530	102.16	-	-	87.33	32.9	11.74	29.81	100	280	P	V
	*	5530	93.42	-	-	78.59	32.9	11.74	29.81	100	280	A	V
		5765	54.25	-13.95	68.2	38.42	33.76	11.98	29.91	100	280	P	V
		5456.75	55.05	-18.95	74	40.28	32.9	11.63	29.76	100	62	P	H
		5467.25	54.41	-13.79	68.2	39.64	32.9	11.64	29.77	100	62	P	H
		5457.45	47.89	-6.11	54	33.12	32.9	11.63	29.76	100	62	A	H
	*	5610	103.38	-	-	88.42	32.94	11.86	29.84	100	62	P	H
802.11ax	*	5610	96.25	-	-	81.29	32.94	11.86	29.84	100	62	A	H
HE80 Full		5726.585	55.28	-12.92	68.2	39.66	33.56	11.95	29.89	100	62	P	H
CH 122		5458.15	58.04	-15.96	74	43.27	32.9	11.63	29.76	100	301	P	V
5610MHz		5466.2	58.56	-9.64	68.2	43.79	32.9	11.64	29.77	100	301	P	V
		5457.45	50.44	-3.56	54	35.67	32.9	11.63	29.76	100	301	A	V
	*	5610	106.74	-	-	91.78	32.94	11.86	29.84	100	301	P	V
	*	5610	98.33	-	-	83.37	32.94	11.86	29.84	100	301	A	V
		5725.61	59.24	-8.96	68.2	43.63	33.55	11.95	29.89	100	301	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. 5+18	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	46.37	-27.63	74	56.68	38.74	17.15	66.2	-	-	P	H
		16590	49.02	-19.18	68.2	57.12	37.74	21.03	66.87	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 106		11060	46.39	-27.61	74	56.7	38.74	17.15	66.2	-	-	P	V
5530MHz		16590	47.83	-20.37	68.2	55.93	37.74	21.03	66.87	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

WIFI Ant. 5+18	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	46.72	-27.28	74	56.76	39	17.26	66.3	-	-	P	H
		16830	47	-21.2	68.2	54.35	37.94	21.35	66.64	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 122		11220	46.91	-27.09	74	56.95	39	17.26	66.3	-	-	P	V
5610MHz		16830	47.53	-20.67	68.2	54.88	37.94	21.35	66.64	-	-	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

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

WIFI Ant. 5+18	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		5454.16	55.56	-18.44	74	40.8	32.9	11.62	29.76	100	57	P	H
		5462.8	55.39	-12.81	68.2	40.62	32.9	11.64	29.77	100	57	P	H
		5453.92	47.56	-6.44	54	32.8	32.9	11.62	29.76	100	57	A	H
	*	5570	93.95	-	-	79.08	32.9	11.8	29.83	100	57	P	H
	*	5570	86.96	-	-	72.09	32.9	11.8	29.83	100	57	A	H
		5730.665	54.62	-13.58	68.2	38.98	33.58	11.95	29.89	100	57	P	H
		5437.84	57.34	-16.66	74	42.58	32.9	11.6	29.74	100	280	P	V
		5465.68	56.78	-11.42	68.2	42.01	32.9	11.64	29.77	100	280	P	V
		5453.92	49.96	-4.04	54	35.2	32.9	11.62	29.76	100	280	A	V
	*	5570	97.63	-	-	82.76	32.9	11.8	29.83	100	280	P	V
	*	5570	88.87	-	-	74	32.9	11.8	29.83	100	280	A	V
		5737.28	56.53	-11.67	68.2	40.84	33.62	11.96	29.89	100	280	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. 5+18	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	47.43	-26.57	74	57.49	38.98	17.21	66.25	-	-	P	H
		16710	48.63	-19.57	68.2	55.91	38.28	21.19	66.75	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE160 Full													H
CH 114		11140	47.27	-26.73	74	57.33	38.98	17.21	66.25	-	-	P	V
5570MHz		16710	49.21	-18.99	68.2	56.49	38.28	21.19	66.75	-	-	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 802.11a (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.	
5+18		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 144 5720MHz		5417.08	53.74	-20.26	74	38.99	32.9	11.57	29.72	309	59	P	H
		5462.71	54.18	-14.02	68.2	39.4	32.9	11.64	29.76	309	59	P	H
		5452.57	45.02	-8.98	54	30.26	32.9	11.62	29.76	309	59	A	H
	*	5720	108.07	-	-	92.49	33.52	11.95	29.89	309	59	P	H
	*	5720	103.03	-	-	87.45	33.52	11.95	29.89	309	59	A	H
		5912	57.46	-10.74	68.2	40.94	34.2	12.28	29.96	309	59	P	H
		5446.72	53.73	-20.27	74	38.97	32.9	11.61	29.75	108	276	P	V
		5465.05	53.42	-14.78	68.2	38.65	32.9	11.64	29.77	108	276	P	V
		5455.69	45.11	-8.89	54	30.34	32.9	11.63	29.76	108	276	A	V
	*	5720	113.76	-	-	98.18	33.52	11.95	29.89	108	276	P	V
	*	5720	108.17	-	-	92.59	33.52	11.95	29.89	108	276	A	V
		5919.25	58.23	-9.97	68.2	41.7	34.2	12.3	29.97	108	276	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. 5+18	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	55.55	-18.45	74	65.55	39.02	17.42	66.44	198	30	P	H
		11440	45.48	-8.52	54	55.48	39.02	17.42	66.44	198	30	A	H
		17160	50.91	-17.29	68.2	57.31	38.2	21.66	66.26	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11440	55.7	-18.3	74	65.7	39.02	17.42	66.44	102	17	P	V
		11440	45.41	-8.59	54	55.41	39.02	17.42	66.44	102	17	A	V
		17160	53.24	-14.96	68.2	59.64	38.2	21.66	66.26	-	-	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 - Straddle Channel

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

WIFI Ant. 5+18	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		5378.08	54.83	-19.17	74	40.1	32.9	11.52	29.69	100	304	P	H
		5464.27	52.33	-15.87	68.2	37.56	32.9	11.64	29.77	100	304	P	H
		5447.89	45.07	-8.93	54	30.31	32.9	11.61	29.75	100	304	A	H
	*	5720	109.23	-	-	93.65	33.52	11.95	29.89	100	304	P	H
	*	5720	102.3	-	-	86.72	33.52	11.95	29.89	100	304	A	H
		5930.75	55.66	-12.54	68.2	39.1	34.2	12.33	29.97	100	304	P	H
		5419.03	54.31	-19.69	74	39.56	32.9	11.57	29.72	109	279	P	V
		5469.34	52.69	-15.51	68.2	37.91	32.9	11.65	29.77	109	279	P	V
		5452.18	45.09	-8.91	54	30.33	32.9	11.62	29.76	109	279	A	V
	*	5720	112.9	-	-	97.32	33.52	11.95	29.89	109	279	P	V
	*	5720	106.7	-	-	91.12	33.52	11.95	29.89	109	279	A	V
		5887.25	56.11	-12.09	68.2	39.69	34.15	12.22	29.95	109	279	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. 5+18	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	55.28	-18.72	74	65.28	39.02	17.42	66.44	199	31	P	H
		11440	44.95	-9.05	54	54.95	39.02	17.42	66.44	199	31	A	H
		17160	50.55	-17.65	68.2	56.95	38.2	21.66	66.26	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE20 Full													H
CH 144		11440	54.43	-19.57	74	64.43	39.02	17.42	66.44	100	16	P	V
5720MHz		11440	44.2	-9.8	54	54.2	39.02	17.42	66.44	100	16	A	V
		17160	50.83	-17.37	68.2	57.23	38.2	21.66	66.26	-	-	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 - Straddle Channel

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

WIFI Ant. 5+18	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		5447.89	55.07	-18.93	74	40.31	32.9	11.61	29.75	100	60	P	H
		5463.88	52.59	-15.61	68.2	37.82	32.9	11.64	29.77	100	60	P	H
		5452.18	45.63	-8.37	54	30.87	32.9	11.62	29.76	100	60	A	H
	*	5710	107.08	-	-	91.56	33.46	11.94	29.88	100	60	P	H
	*	5710	99.09	-	-	83.57	33.46	11.94	29.88	100	60	A	H
		5947.75	56.61	-11.59	68.2	40.02	34.2	12.37	29.98	100	60	P	H
		5438.14	53.84	-20.16	74	39.08	32.9	11.6	29.74	100	277	P	V
		5460.76	53.44	-14.76	68.2	38.67	32.9	11.63	29.76	100	277	P	V
		5406.16	45.76	-8.24	54	31.02	32.9	11.55	29.71	100	277	A	V
	*	5710	110.75	-	-	95.23	33.46	11.94	29.88	100	277	P	V
	*	5710	104.29	-	-	88.77	33.46	11.94	29.88	100	277	A	V
		5851.5	55.91	-12.29	68.2	39.7	34.01	12.14	29.94	100	277	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. 5+18	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	50.58	-23.42	74	60.54	39.06	17.41	66.43	100	20	P	H
		11420	41.66	-12.34	54	51.62	39.06	17.41	66.43	100	20	A	H
		17130	50.12	-18.08	68.2	56.62	38.16	21.64	66.3	400	32	P	H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE40 Full													H
CH 142		11420	54.24	-19.76	74	64.2	39.06	17.41	66.43	100	17	P	V
5710MHz		11420	42.45	-11.55	54	52.41	39.06	17.41	66.43	100	17	A	V
		17130	51.89	-16.31	68.2	58.39	38.16	21.64	66.3	100	317	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.

Band 3 Straddle Channel

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

WIFI Ant. 5+18	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		5449.06	54.47	-19.53	74	39.7	32.9	11.62	29.75	100	59	P	H
		5465.44	54.42	-13.78	68.2	39.65	32.9	11.64	29.77	100	59	P	H
		5449.45	46.01	-7.99	54	31.24	32.9	11.62	29.75	100	59	A	H
	*	5690	103.95	-	-	88.57	33.34	11.92	29.88	100	59	P	H
	*	5690	94.4	-	-	79.02	33.34	11.92	29.88	100	59	A	H
		5922.5	56.29	-11.91	68.2	39.75	34.2	12.31	29.97	100	59	P	H
		5440.48	54.52	-19.48	74	39.76	32.9	11.6	29.74	100	276	P	V
		5466.22	54.23	-13.97	68.2	39.46	32.9	11.64	29.77	100	276	P	V
		5452.57	46.03	-7.97	54	31.27	32.9	11.62	29.76	100	276	A	V
	*	5690	106.64	-	-	91.26	33.34	11.92	29.88	100	276	P	V
	*	5690	98.9	-	-	83.52	33.34	11.92	29.88	100	276	A	V
		5863	56.11	-12.09	68.2	39.85	34.05	12.16	29.95	100	276	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. 5+18	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	46.5	-27.5	74	56.42	39.1	17.38	66.4	-	-	P	H
		17070	48.55	-19.65	68.2	55.1	38.22	21.61	66.38	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
802.11ax													H
HE80 Full													H
CH 138		11380	49.67	-24.33	74	59.59	39.1	17.38	66.4	100	18	P	V
5690MHz		11380	40.23	-13.77	54	50.15	39.1	17.38	66.4	100	18	A	V
		17070	48.1	-20.1	68.2	54.65	38.22	21.61	66.38	-	-	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.

Emission above 18GHz

WIFI 802.11ax HE40 Full (SHF @ 1m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5+18		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE40 Full SHF		39146	47.19	-26.81	74	60.59	44.15	-0.84	56.71	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		38950	45.94	-28.06	74	59.85	43.78	-0.86	56.83	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

Remark

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

WIFI 802.11ax HE40 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5+18		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE40 Full LF		31.62	21.4	-18.6	40	29.32	23.79	0.74	32.45	-	-	P	H
		205.5	23.2	-20.3	43.5	38.44	15.09	2.06	32.39	-	-	P	H
		298.38	25.01	-20.99	46	35.66	19.2	2.56	32.41	-	-	P	H
		433.7	25.22	-20.78	46	31.71	22.89	3.13	32.51	-	-	P	H
		640.9	28.55	-17.45	46	30.97	26.38	3.84	32.64	-	-	P	H
		950.3	32.95	-13.05	46	28.96	30.75	4.76	31.52	-	-	P	H
													H
													H
													H
													H
													H
													H
		54.84	22.47	-17.53	40	41.31	12.54	1.05	32.43	-	-	P	V
		125.85	20.68	-22.82	43.5	33.98	17.48	1.61	32.39	-	-	P	V
		299.46	21.38	-24.62	46	32.01	19.21	2.57	32.41	-	-	P	V
		559	28.36	-17.64	46	31.44	26.01	3.49	32.58	-	-	P	V
		755	30.13	-15.87	46	30.25	28.14	4.25	32.51	-	-	P	V
		954.5	33.69	-12.31	46	29.57	30.83	4.77	31.48	-	-	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**v
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.	
5+18		(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)

= LevμV/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

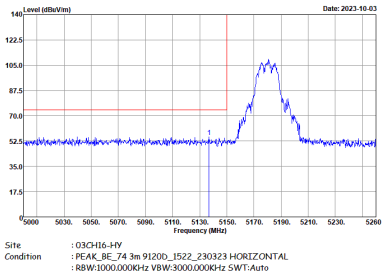
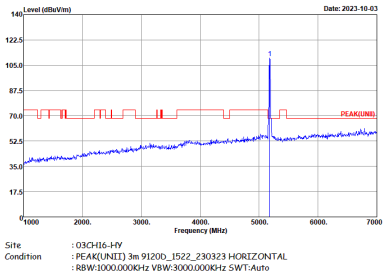
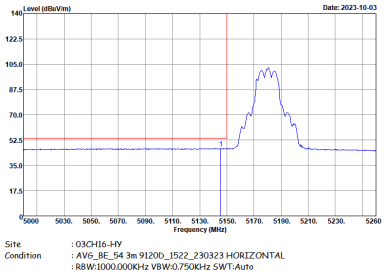
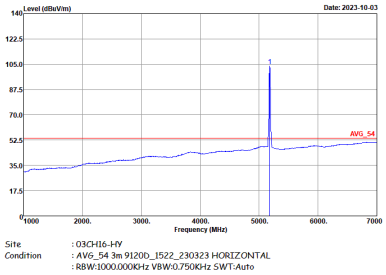
Test Engineer :	Jack tsai, Gary Guo and Steven Wu	**Temperature :**	20~25°C
		Relative Humidity :	50~65%

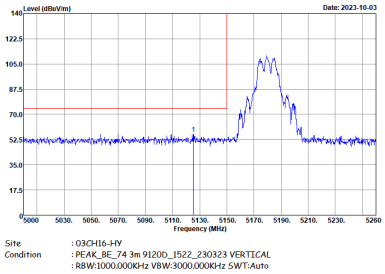
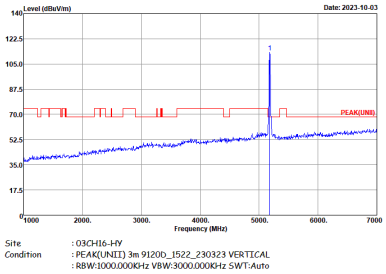
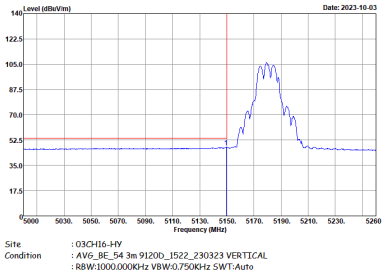
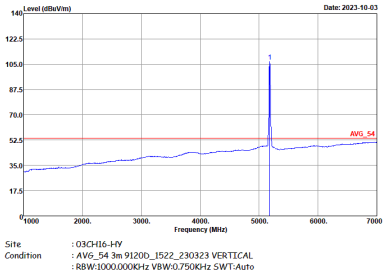
Note symbol

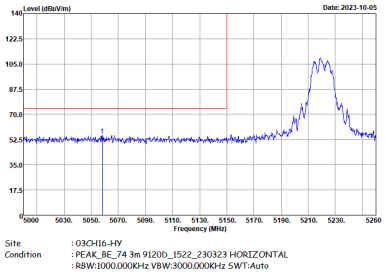
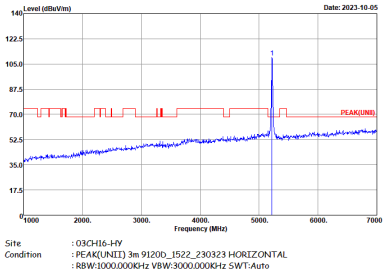
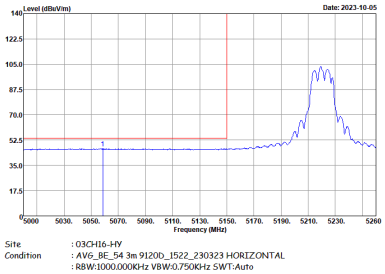
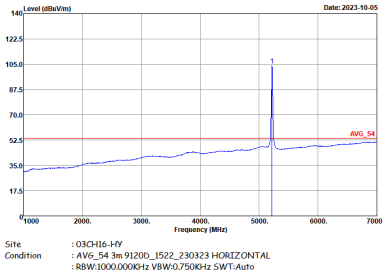
-L	**Low channel location**
-R	**High channel location**

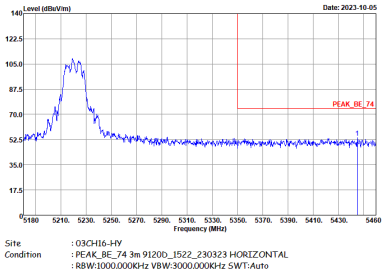
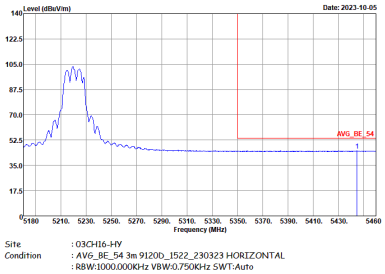
Band 1 - 5150~5250MHz

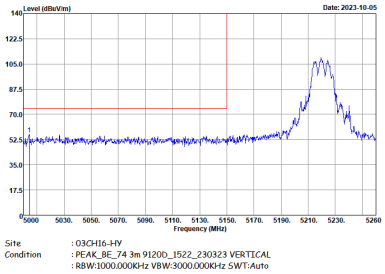
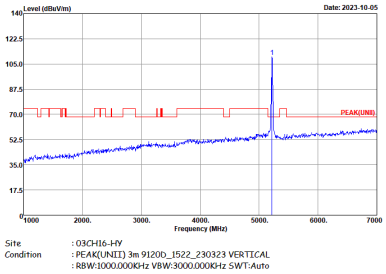
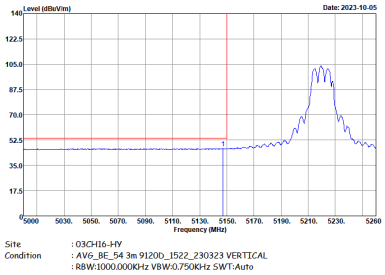
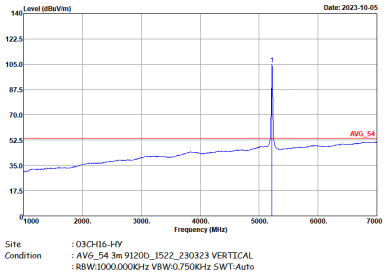
WIFI 802.11a (Band Edge @ 3m)

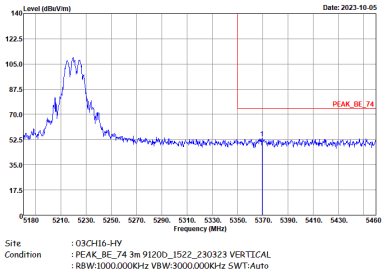
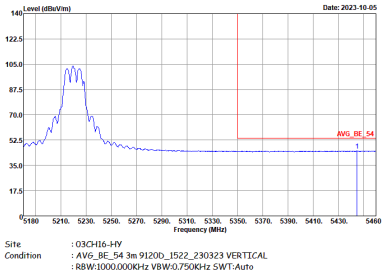
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
5+18	Horizontal	Fundamental
Peak		
Avg.		

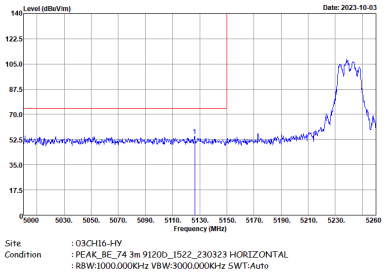
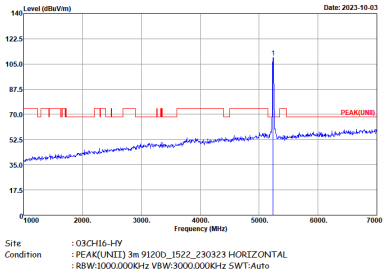
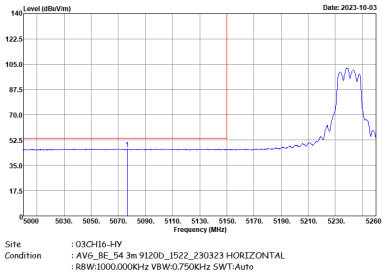
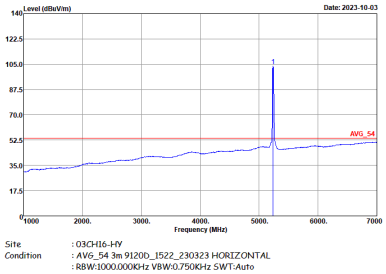
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
5+18	Vertical	Fundamental
Peak		
Avg.		

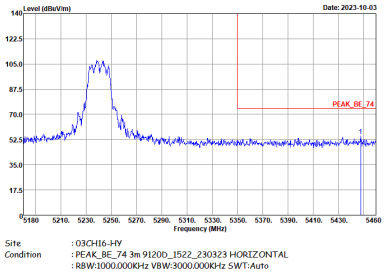
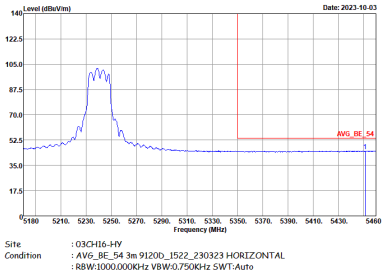
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
5+18	Horizontal	Fundamental
Peak		
Avg.		

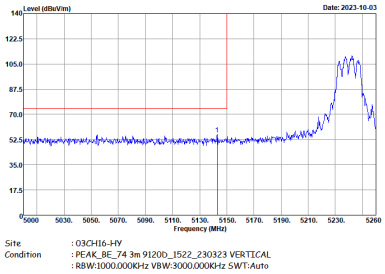
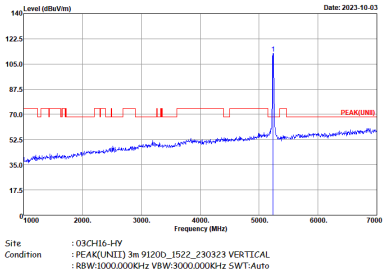
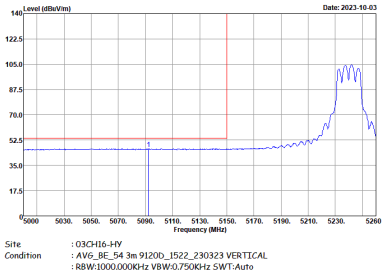
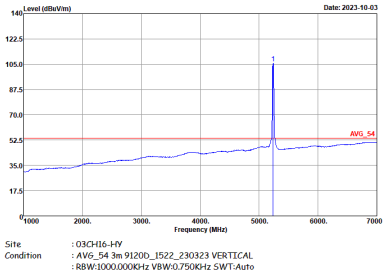
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
5+18	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

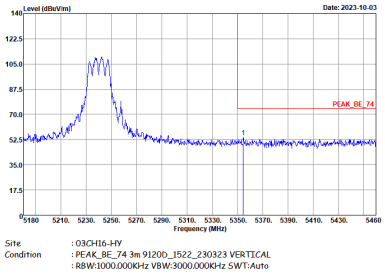
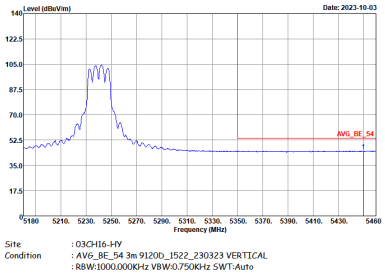
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - L	
5+18	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH44 5220MHz - R	
5+18	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

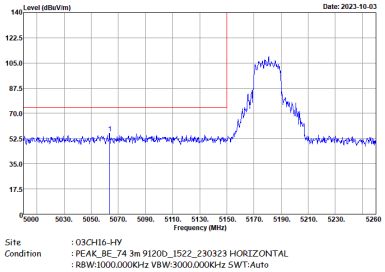
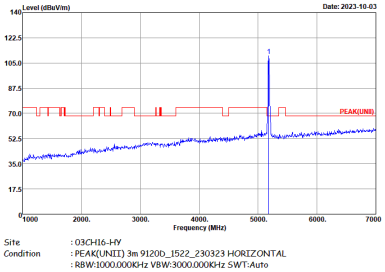
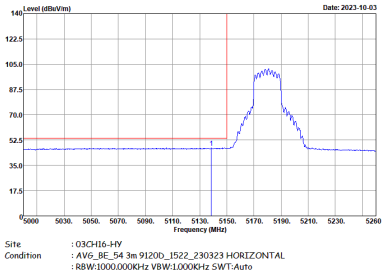
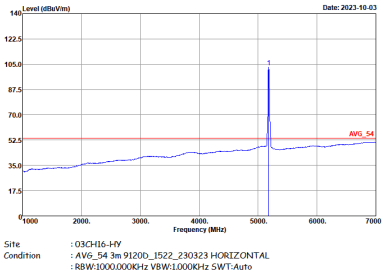
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
5+18	Horizontal	Fundamental
Peak		
Avg.		

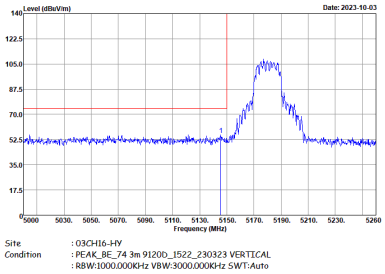
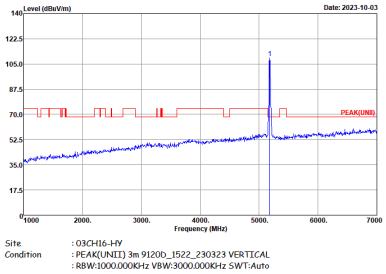
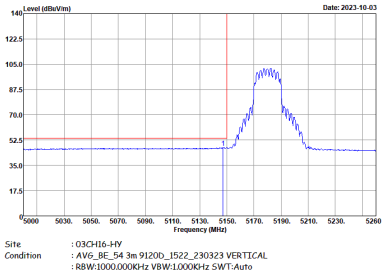
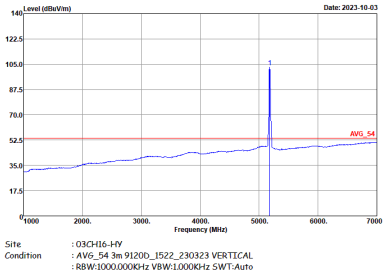
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
5+18	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

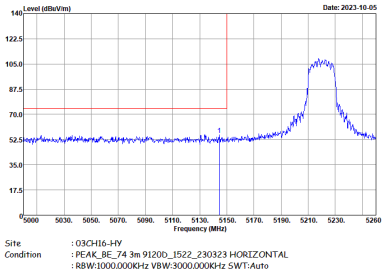
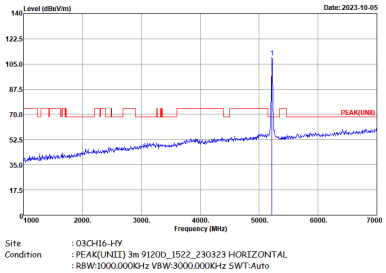
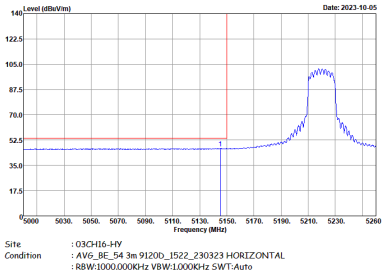
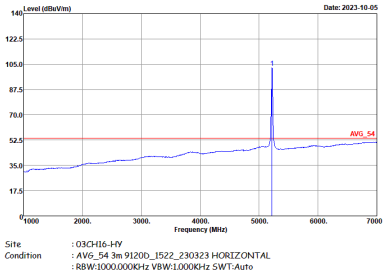
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - L	
5+18	Vertical	Fundamental
Peak		
Avg.		

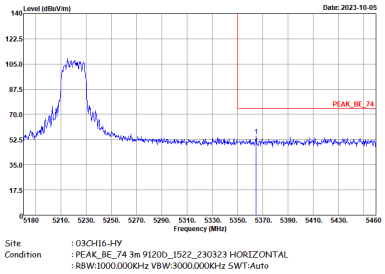
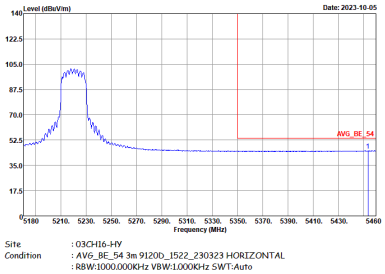
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH48 5240MHz - R	
5+18	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

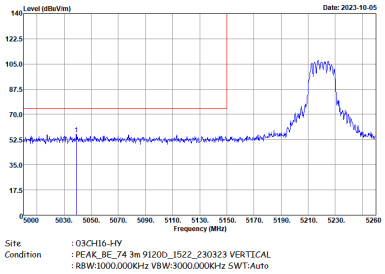
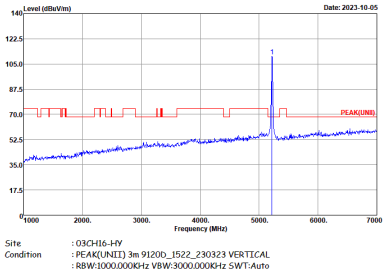
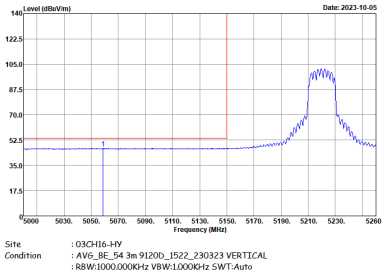
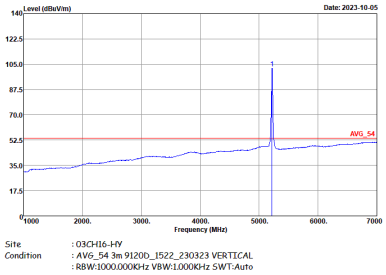
Band 1 5150~5250MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

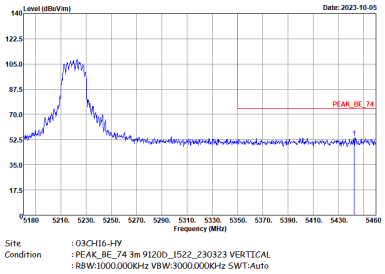
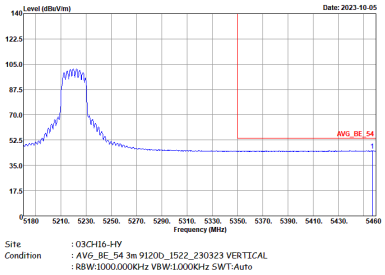
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
5+18	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto	 Site : 03CH16-HY Condition : AVG_54 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto

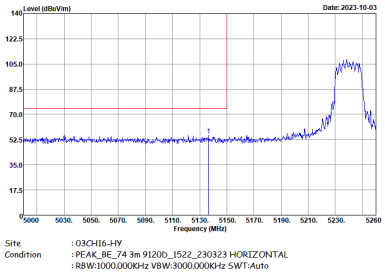
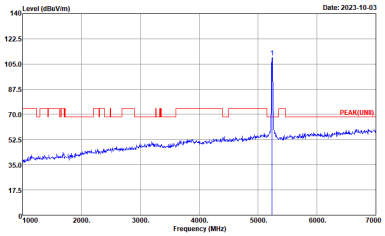
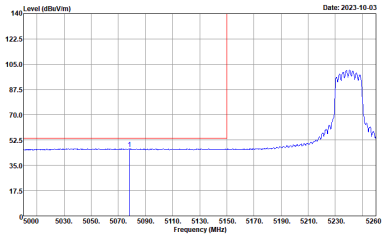
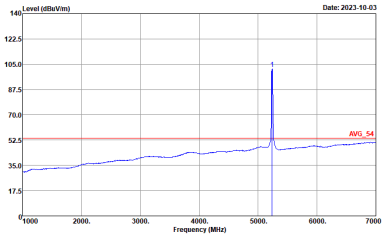
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
5+18	Vertical	Fundamental
Peak		
Avg.		

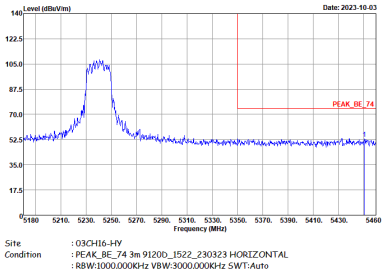
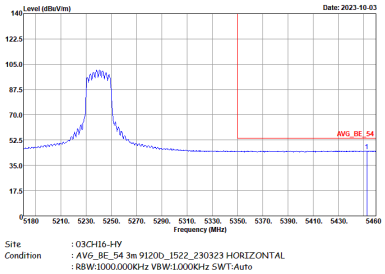
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
5+18	Horizontal	Fundamental
Peak		
Avg.		

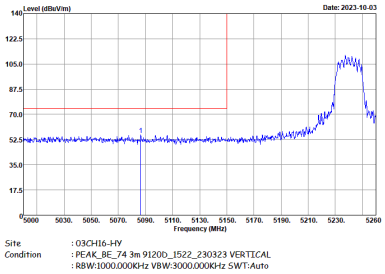
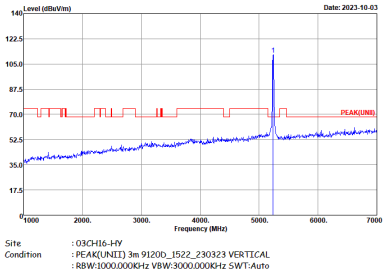
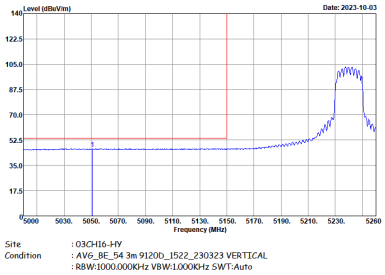
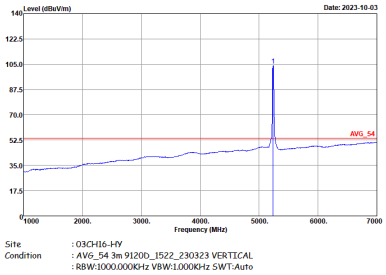
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
5+18	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

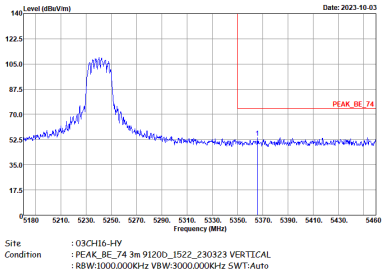
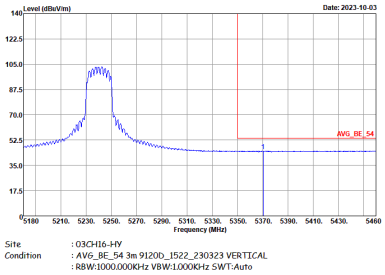
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - L	
5+18	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz - R	
5+18	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
5+18	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH16-HY Condition : AVG_54 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto

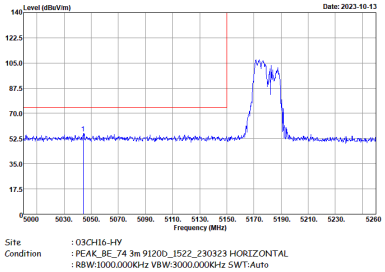
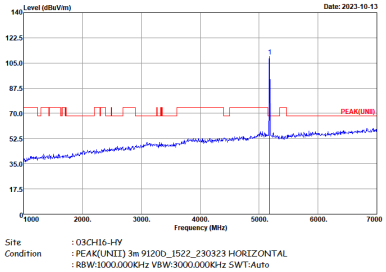
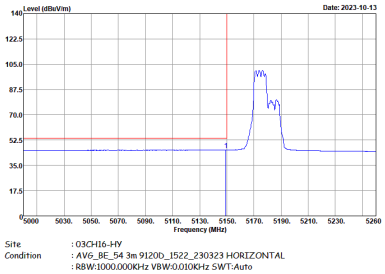
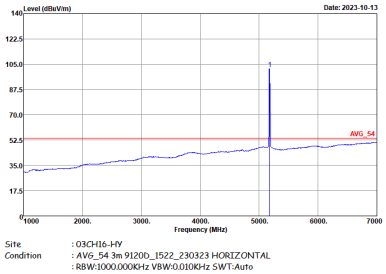
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
5+18	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

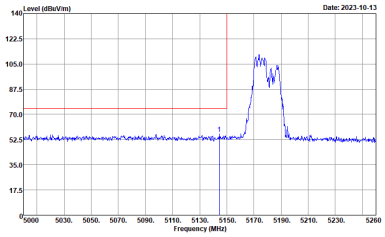
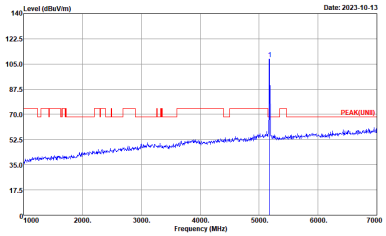
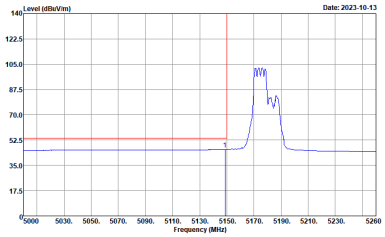
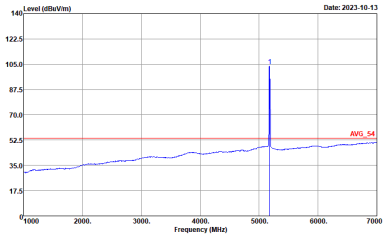
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - L	
5+18	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz - R	
5+18	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

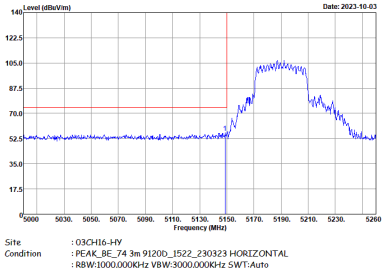
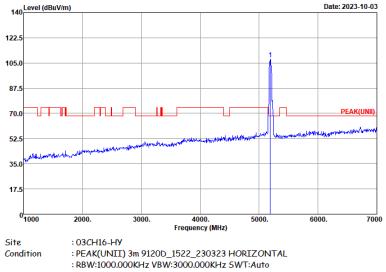
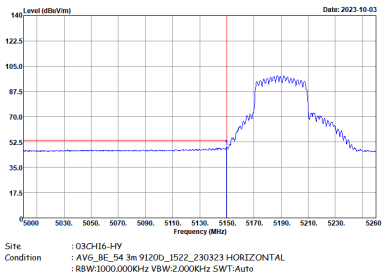
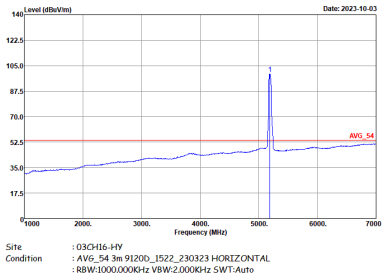
Band 1 5150~5250MHz

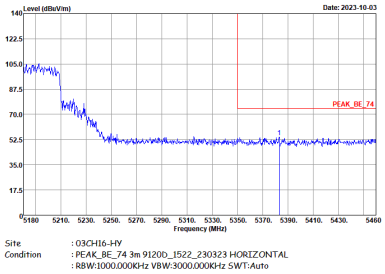
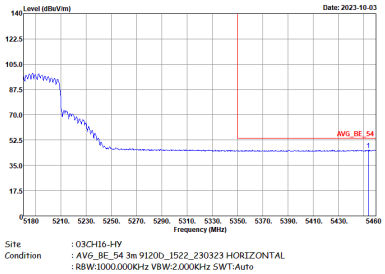
WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

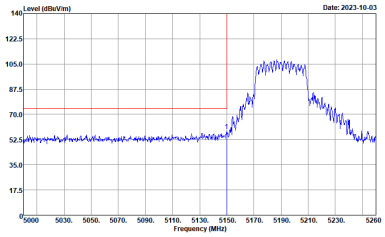
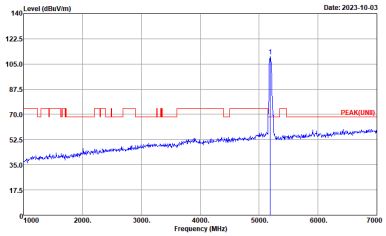
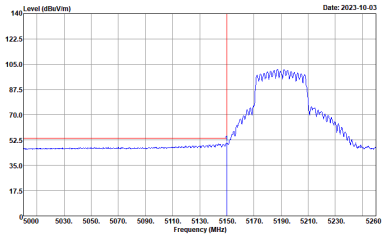
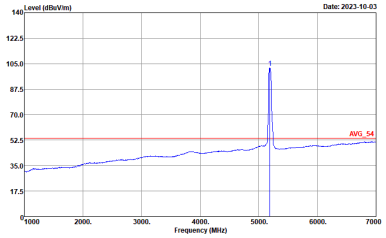
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH36 5180MHz	
5+18	Horizontal	Fundamental
Peak		
Avg.		

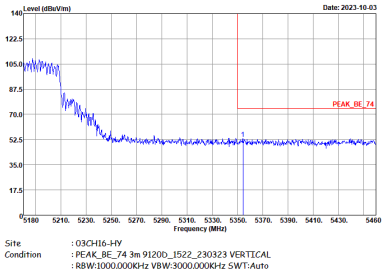
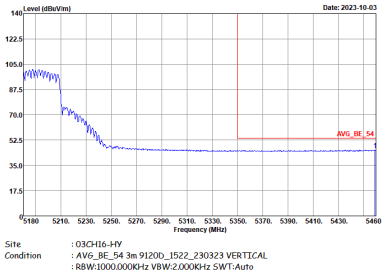
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH36 5180MHz	
5+18	Vertical	Fundamental
Peak		
Avg.		

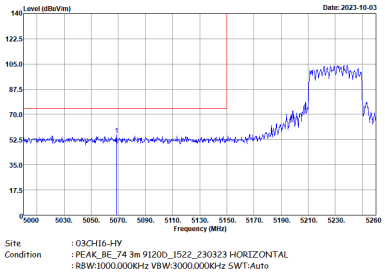
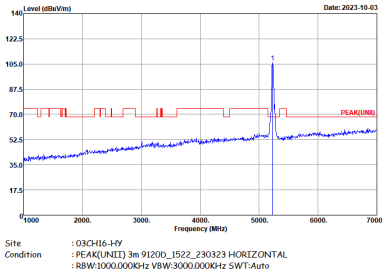
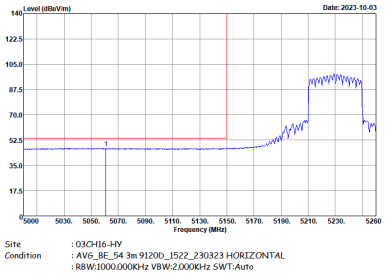
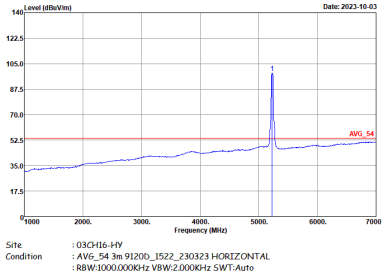
Band 1 5150~5250MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

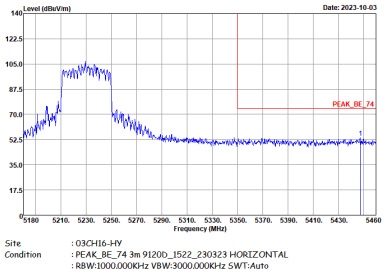
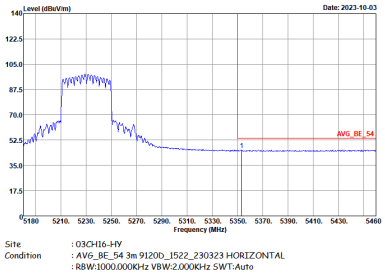
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
5+18	Horizontal	Fundamental
Peak		
Avg.		

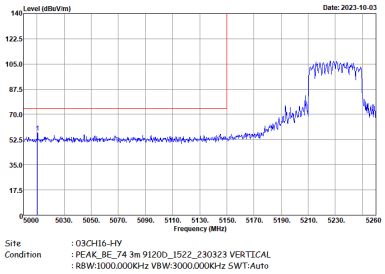
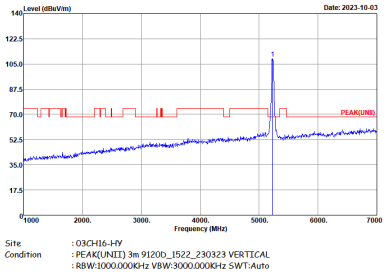
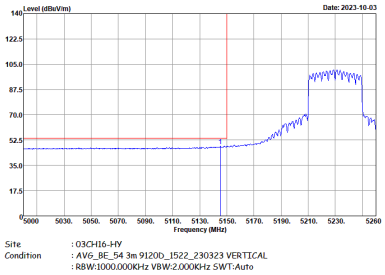
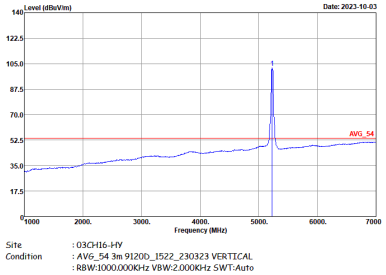
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
5+18	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

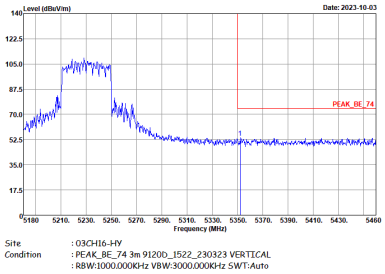
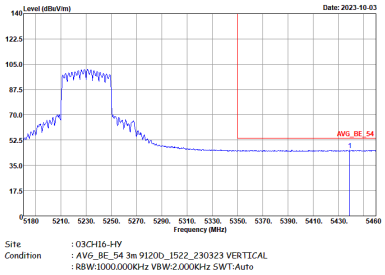
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - L	
5+18	Vertical	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522_230323 VERTICAL : RBW:1000.000KHz VBW:2.000KHz SWT:Auto	 Site : 03CH16-HY Condition : AVG_54 3m 9120D_1522_230323 VERTICAL : RBW:1000.000KHz VBW:2.000KHz SWT:Auto

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz - R	
5+18	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

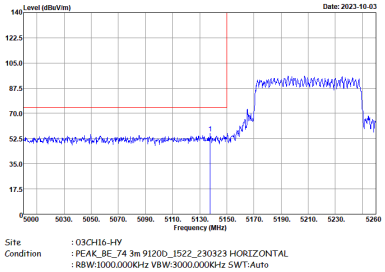
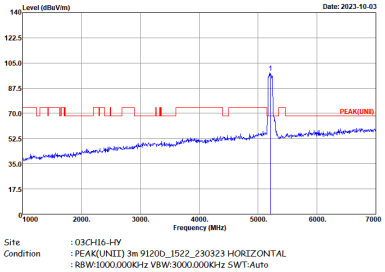
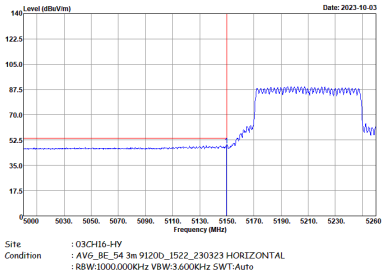
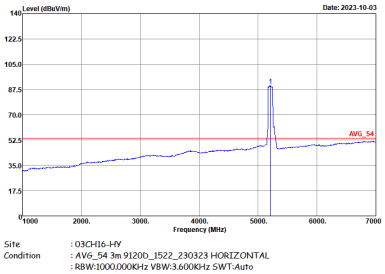
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - L	
5+18	Horizontal	Fundamental
Peak		
Avg.		

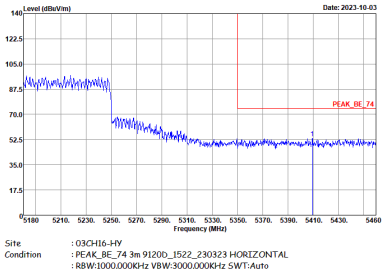
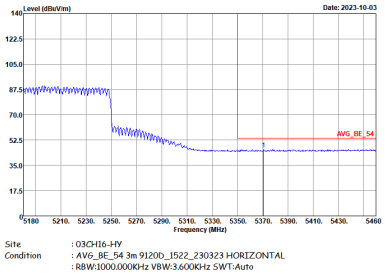
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - R	
5+18	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

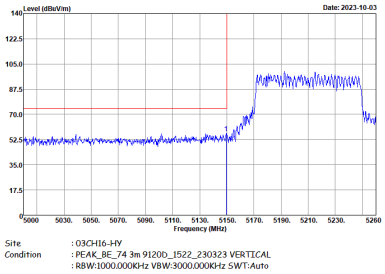
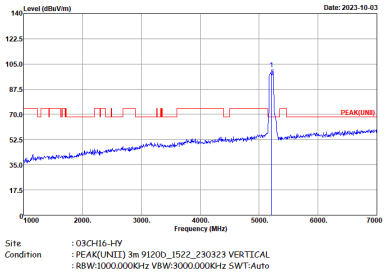
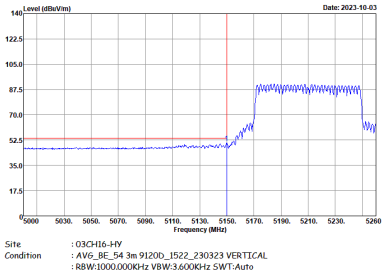
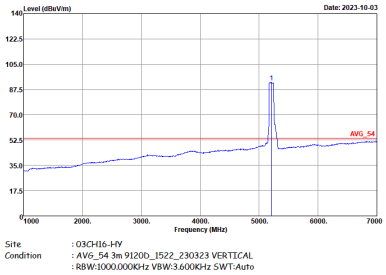
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - L	
5+18	Vertical	Fundamental
Peak		
Avg.		

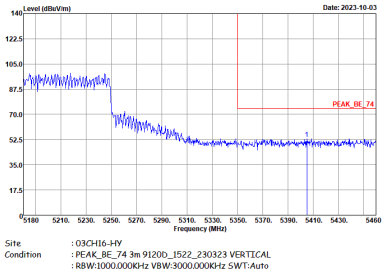
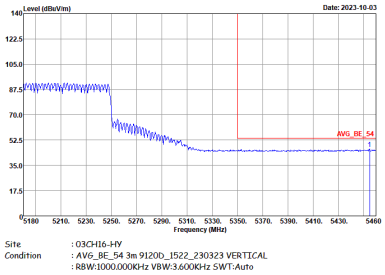
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz - R	
5+18	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 5150~5250MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

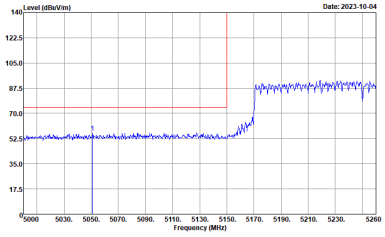
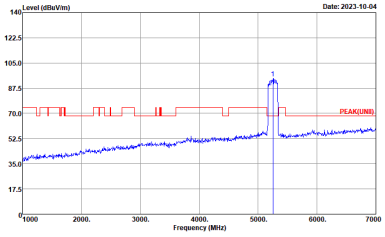
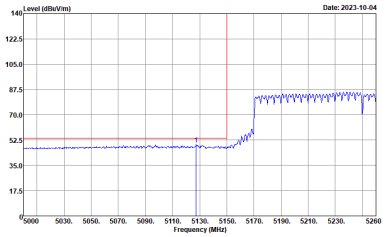
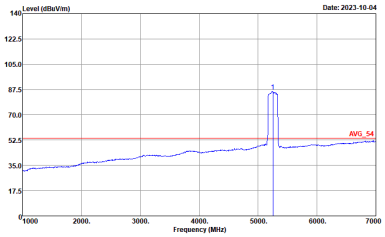
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - L	
5+18	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3.600KHz SWT:Auto	 Site : 03CH16-HY Condition : AVG_54 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3.600KHz SWT:Auto

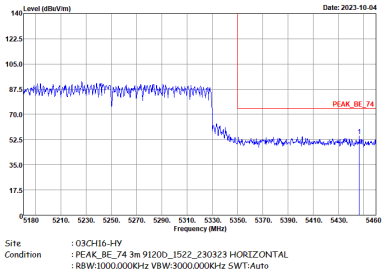
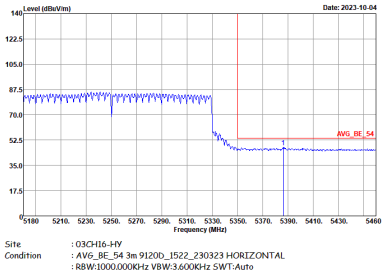
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - R	
5+18	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

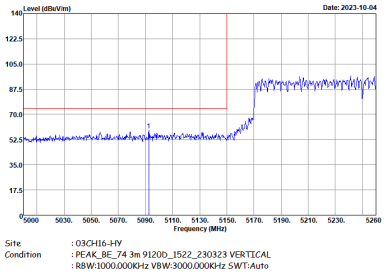
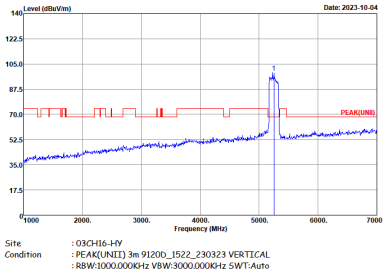
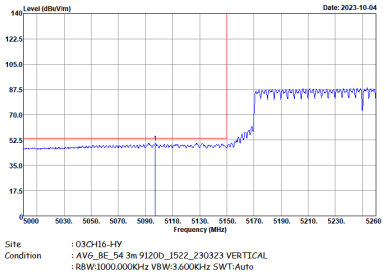
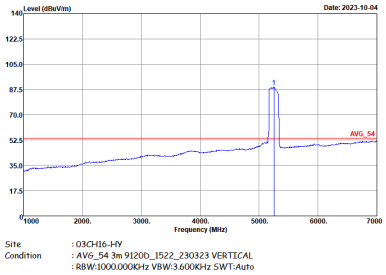
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - L	
5+18	Vertical	Fundamental
Peak		
Avg.		

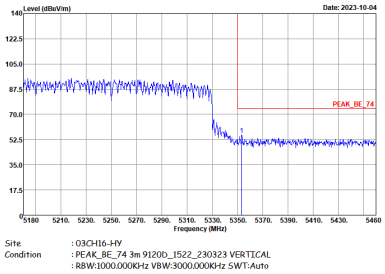
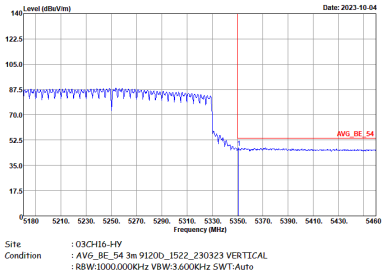
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz - R	
5+18	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

Band 1 5150~5250MHz
WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - L	
5+18	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE_74 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HY Condition : AVG_BE_54 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3.600KHz SWT:Auto	 Site : 03CH16-HY Condition : AVG_54 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3.600KHz SWT:Auto

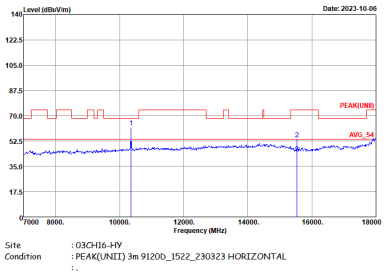
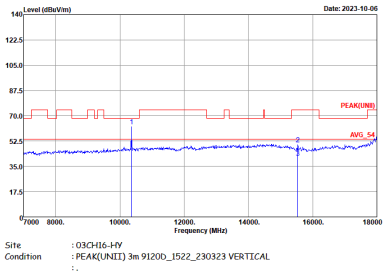
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - R	
5+18	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

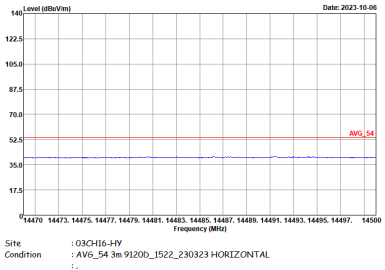
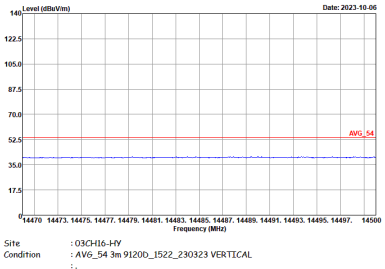
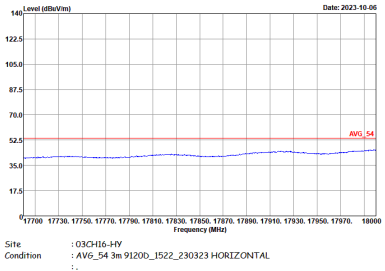
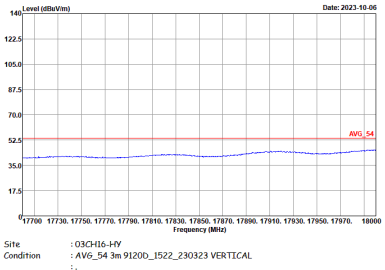
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - L	
5+18	Vertical	Fundamental
Peak		
Avg.		

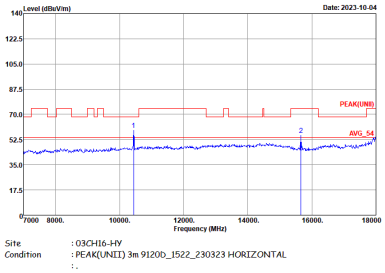
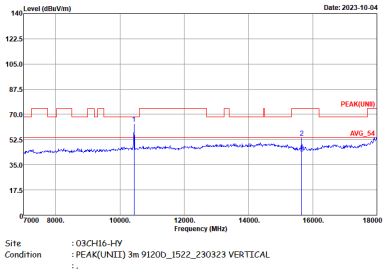
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz - R	
5+18	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

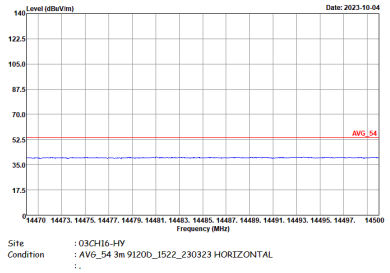
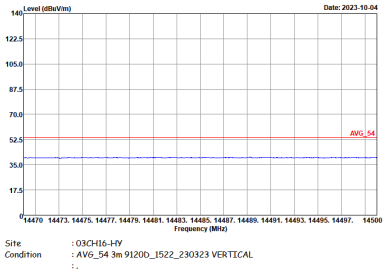
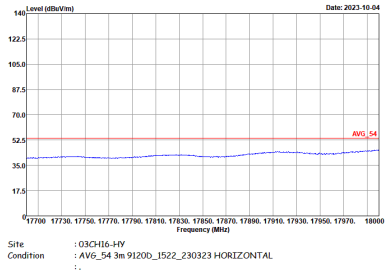
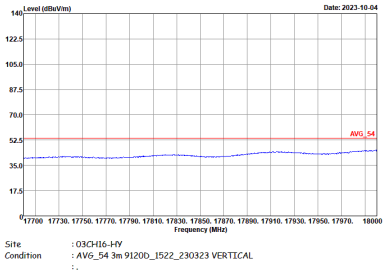
Band 1 - 5150~5250MHz

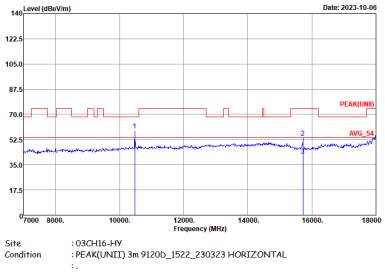
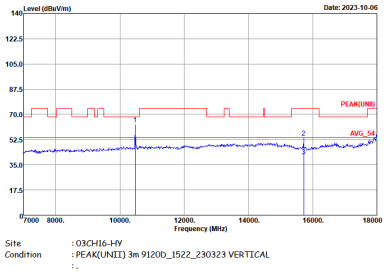
WIFI 802.11a (Harmonic @ 3m)

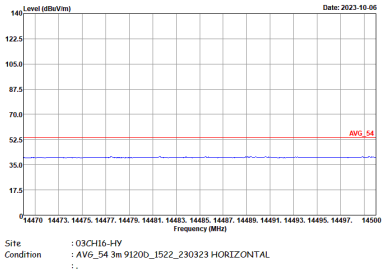
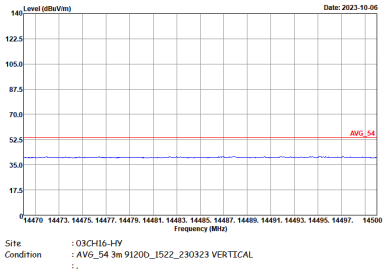
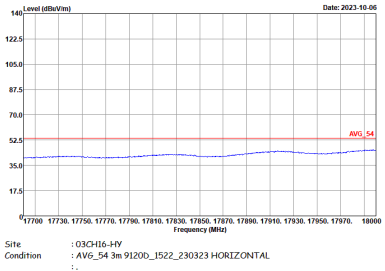
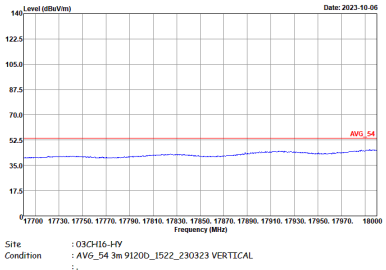
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
5+18	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
5+18	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
5+18	Horizontal	Vertical
Peak Avg.		

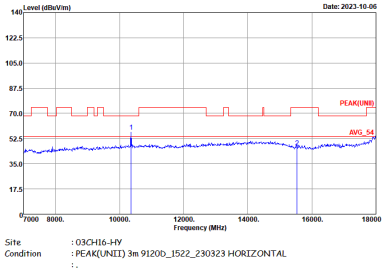
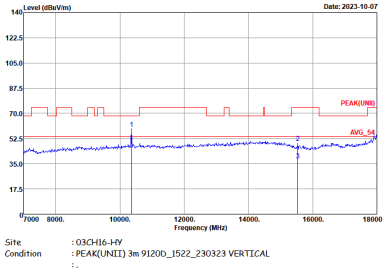
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH44 5220MHz	
5+18	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg		

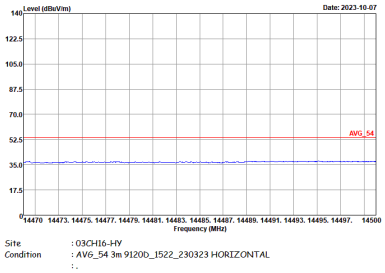
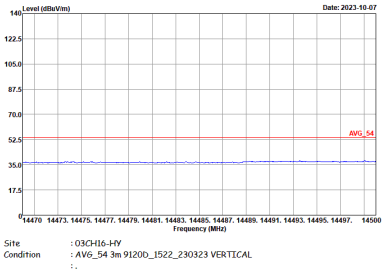
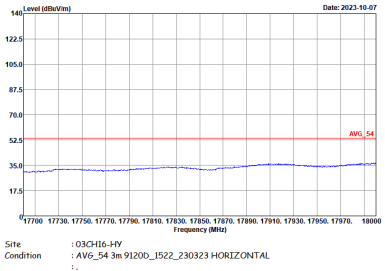
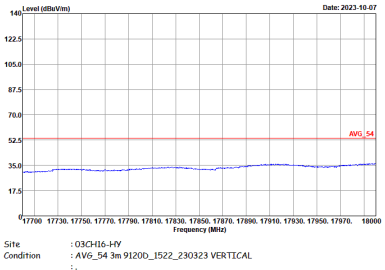
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
5+18	Horizontal	Vertical
Peak Avg.		

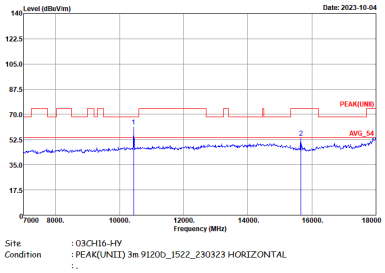
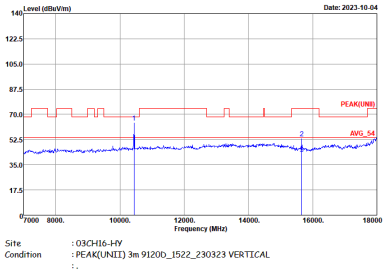
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH48 5240MHz	
5+18	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg		

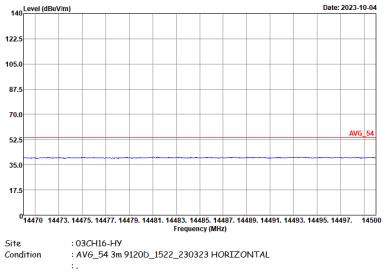
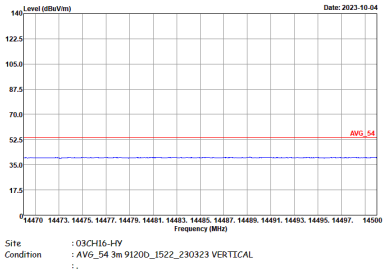
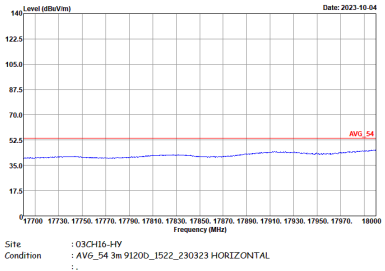
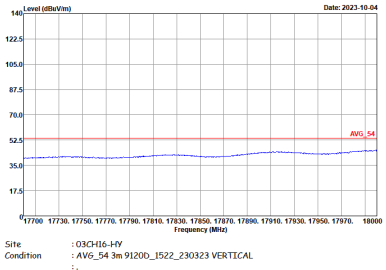
Band 1 5150~5250MHz

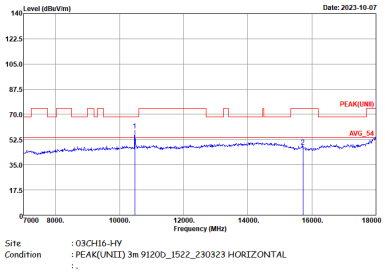
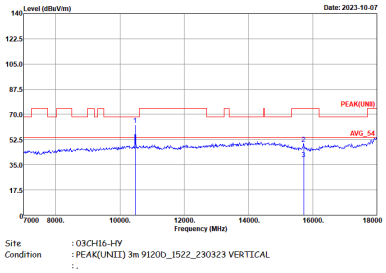
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

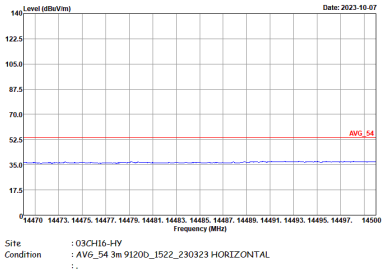
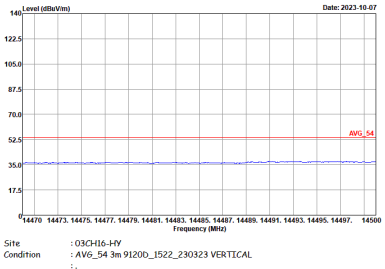
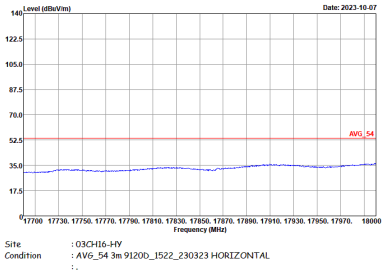
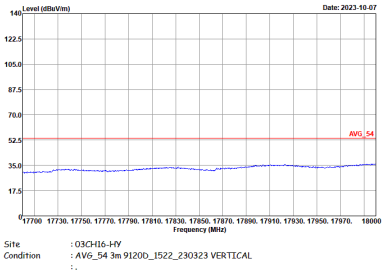
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
5+18	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH36 5180MHz	
5+18	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg		

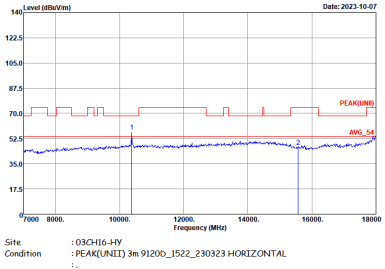
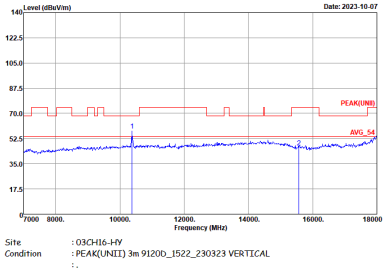
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz	
5+18	Horizontal	Vertical
Peak Avg.		

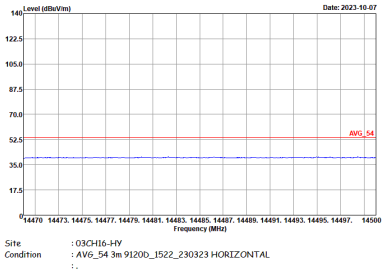
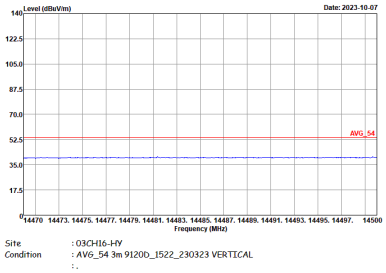
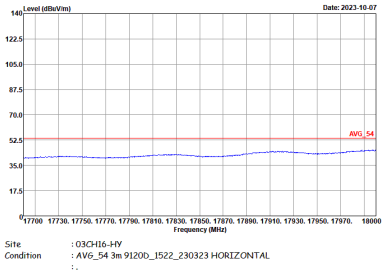
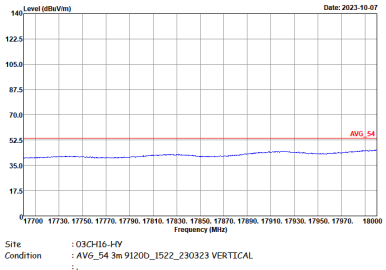
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH44 5220MHz	
5+18	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg		

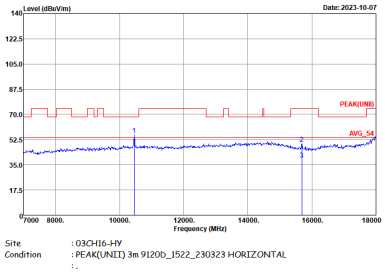
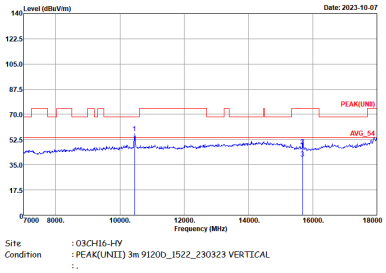
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz	
5+18	Horizontal	Vertical
Peak Avg.		

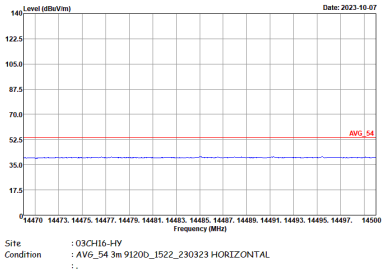
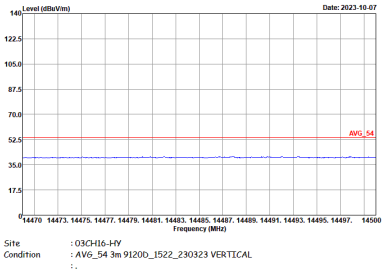
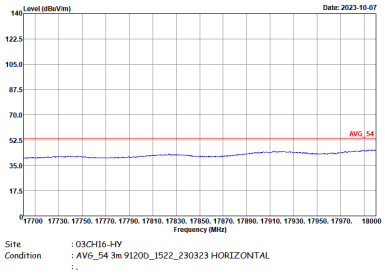
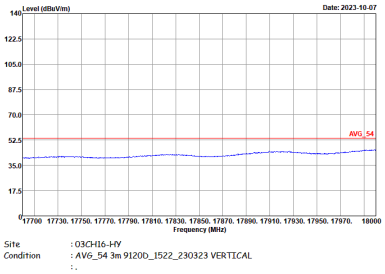
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH48 5240MHz	
5+18	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg		

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

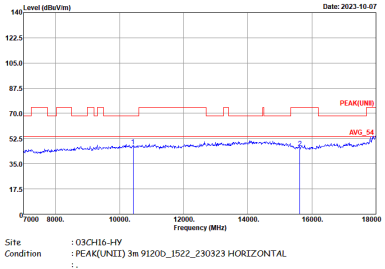
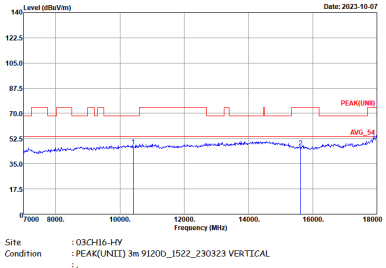
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz	
5+18	Horizontal	Vertical
Peak Avg.		

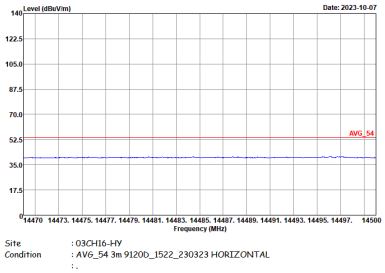
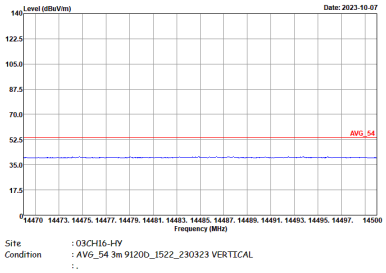
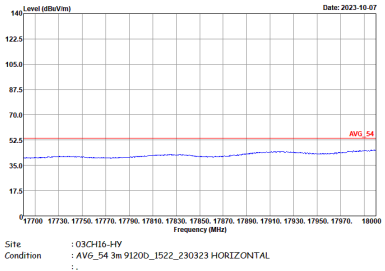
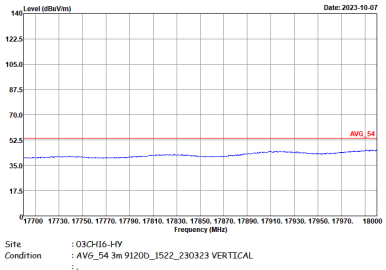
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH38 5190MHz	
5+18	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz	
5+18	Horizontal	Vertical
Peak Avg.		

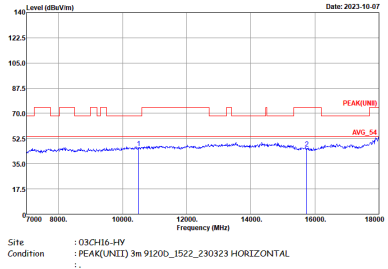
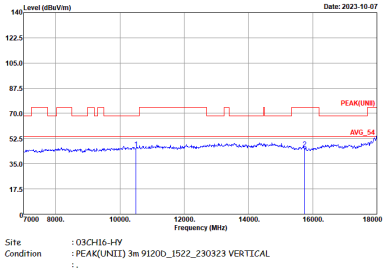
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH46 5230MHz	
5+18	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg		

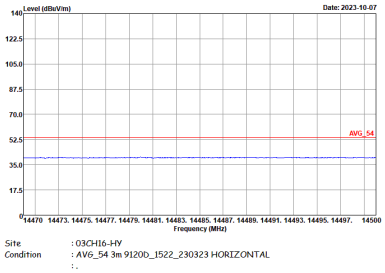
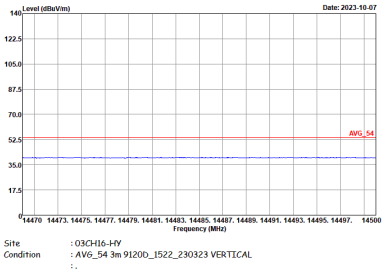
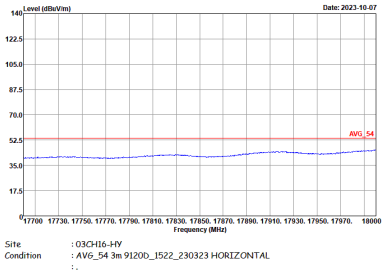
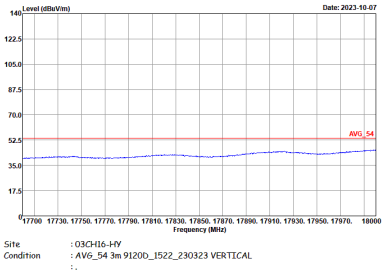
Band 1 5150~5250MHz
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz	
5+18	Horizontal	Vertical
Peak Avg.		

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH42 5210MHz	
5+18	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg		

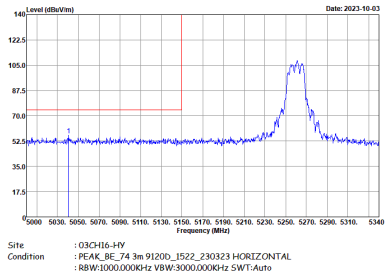
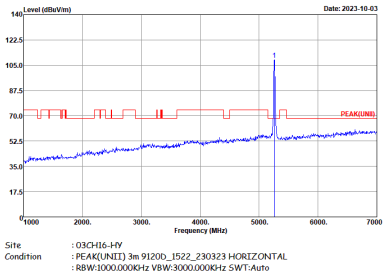
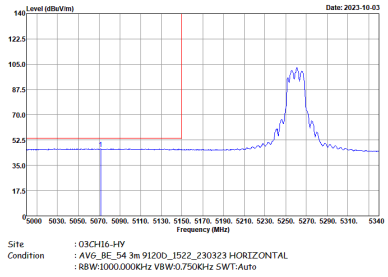
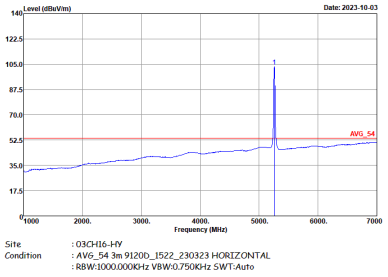
Band 1 5150~5250MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

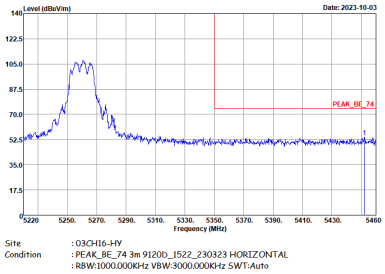
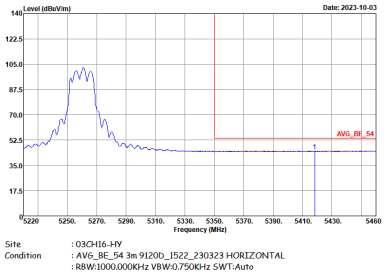
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz	
5+18	Horizontal	Vertical
Peak Avg.		

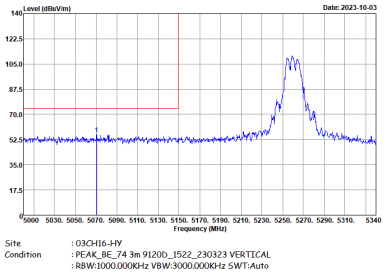
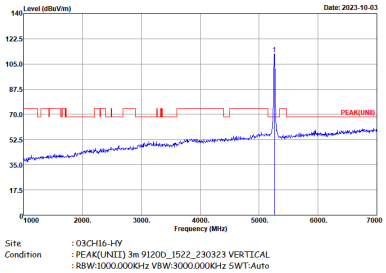
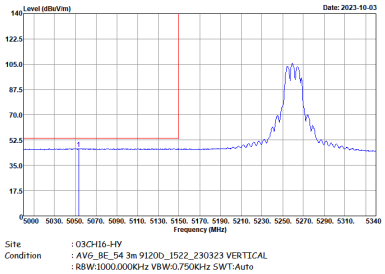
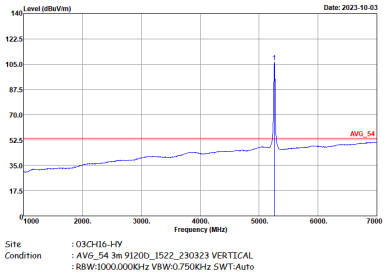
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH50 5250MHz	
5+18	Horizontal	Vertical
14.47G ~14.5G Avg.		
17.7G ~18G Avg		

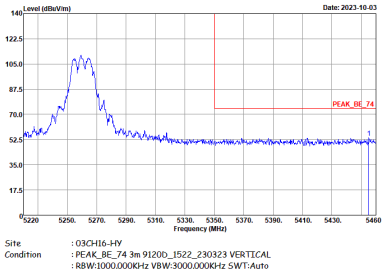
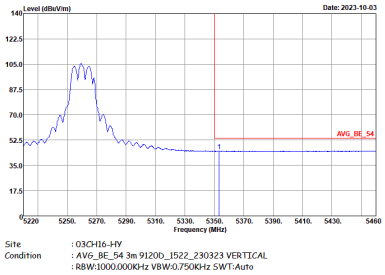
Band 2 - 5250~5350MHz

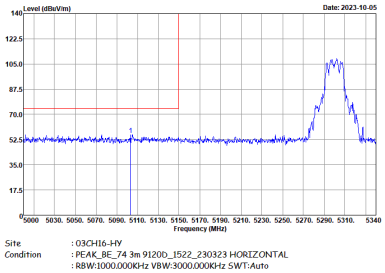
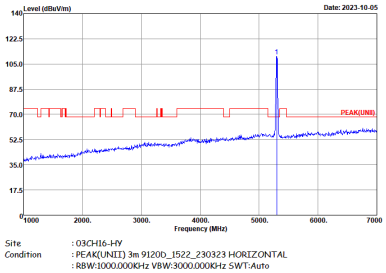
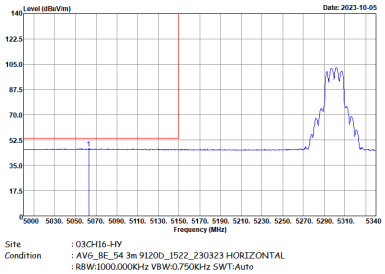
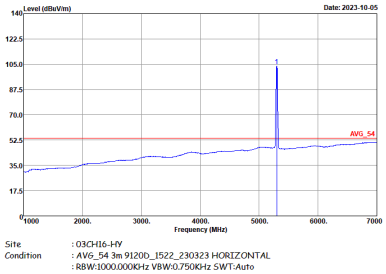
WIFI 802.11a (Band Edge @ 3m)

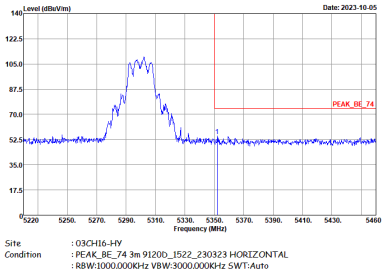
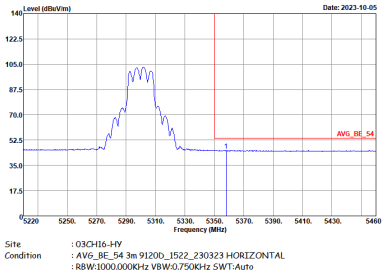
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
5+18	Horizontal	Fundamental
Peak		
Avg.		

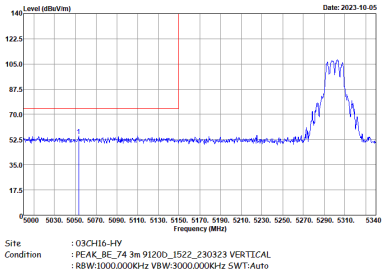
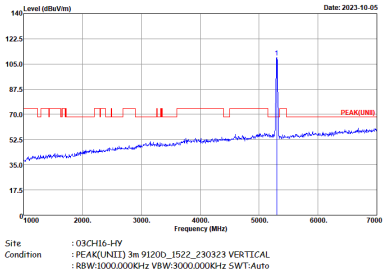
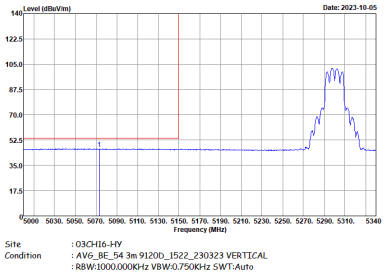
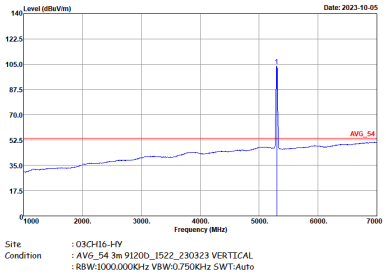
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
5+18	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

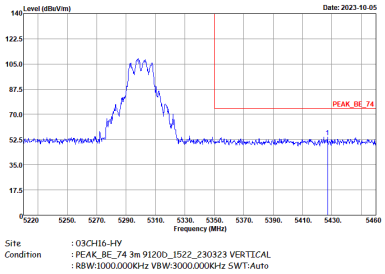
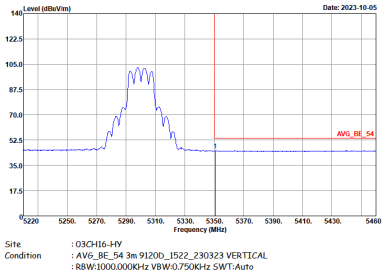
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - L	
5+18	Vertical	Fundamental
Peak		
Avg.		

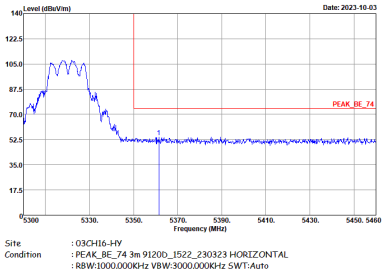
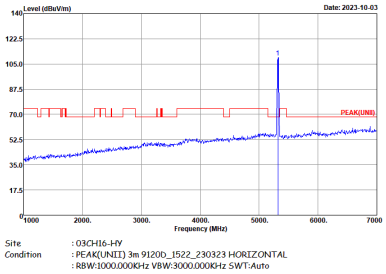
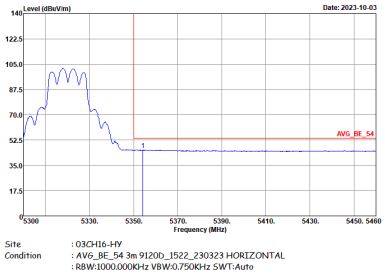
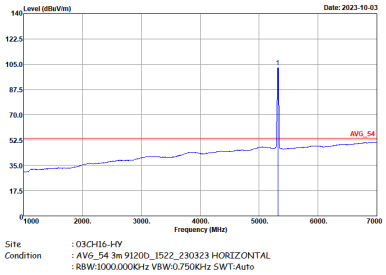
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH52 5260MHz - R	
5+18	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

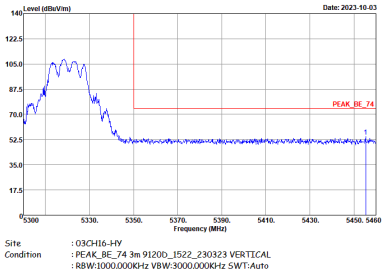
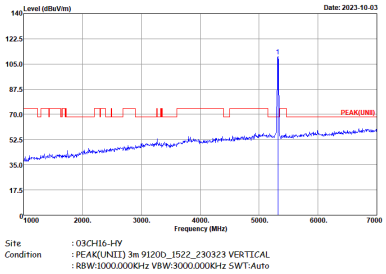
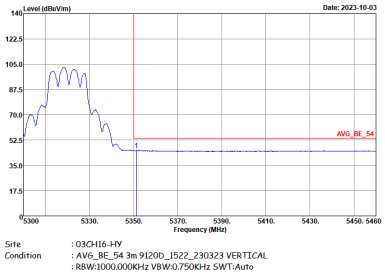
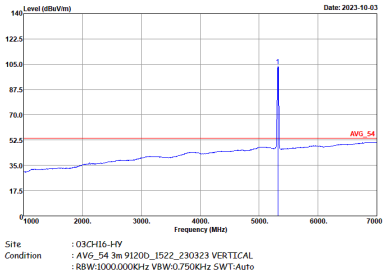
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
5+18	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
5+18	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

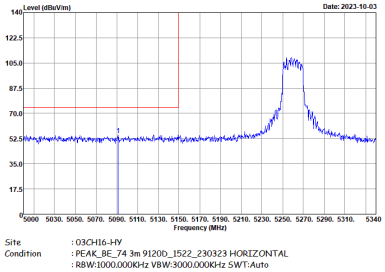
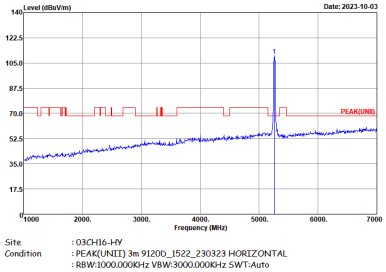
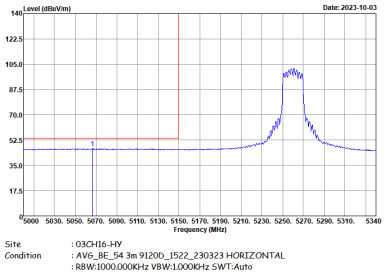
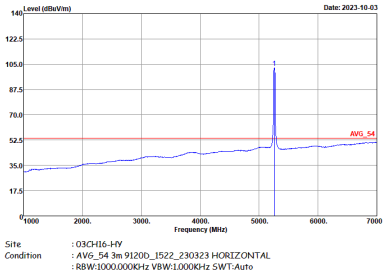
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
5+18	Vertical	Fundamental
Peak		
Avg.		

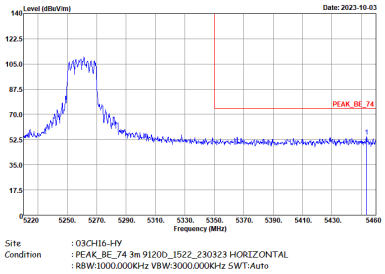
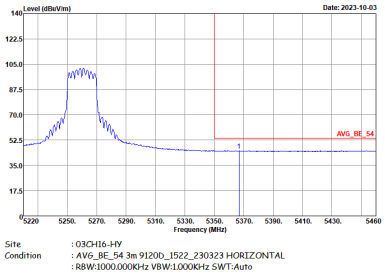
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
5+18	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

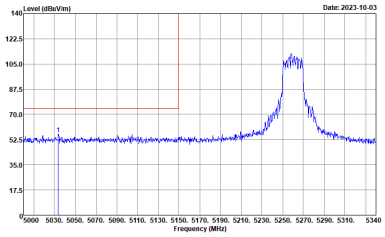
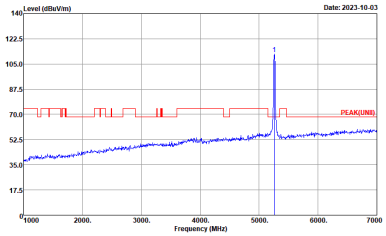
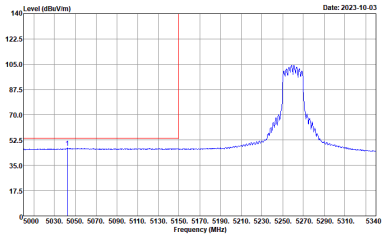
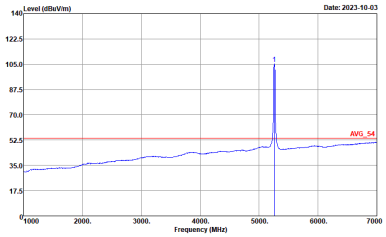
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
5+18	Horizontal	Fundamental
Peak	 Site : 03CH16-HV Condition : PEAK_BE_74 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HV Condition : PEAK(UNII) 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HV Condition : AVG_BE_54 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto	 Site : 03CH16-HV Condition : AVG_54 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto

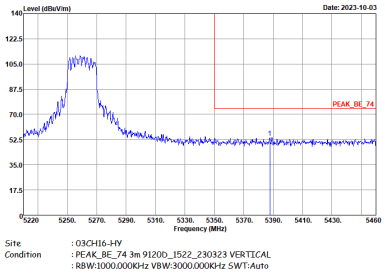
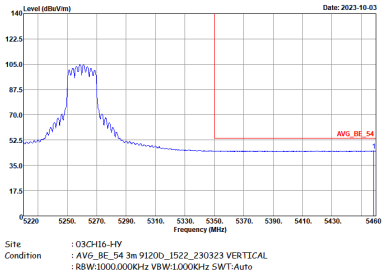
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
5+18	Vertical	Fundamental
Peak	 Site : 03CH16-HV Condition : PEAK_BE_74 3m 9120D_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HV Condition : PEAK(UNII) 3m 9120D_1522_230323 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HV Condition : AVG_BE_54 3m 9120D_1522_230323 VERTICAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto	 Site : 03CH16-HV Condition : AVG_54 3m 9120D_1522_230323 VERTICAL : RBW:1000.000KHz VBW:0.750KHz SWT:Auto

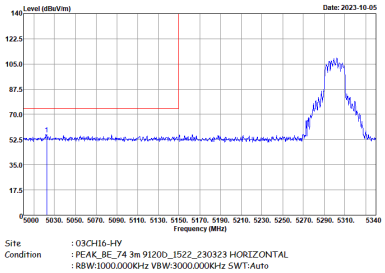
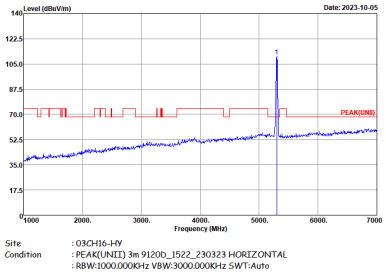
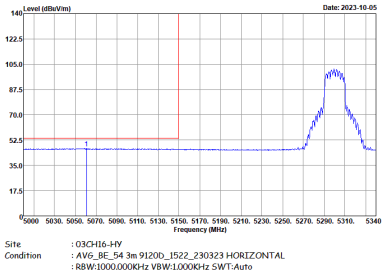
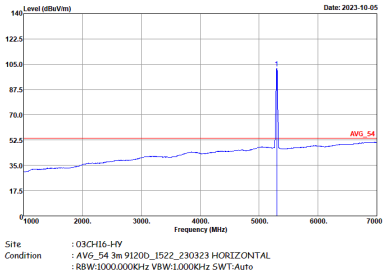
Band 2 5250~5350MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

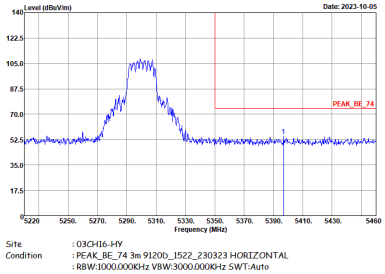
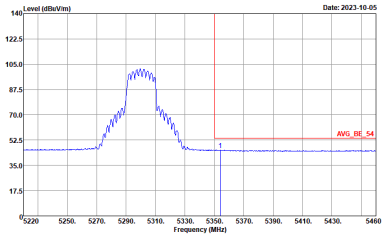
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH52 5260MHz - L	
5+18	Horizontal	Fundamental
Peak		
Avg.		

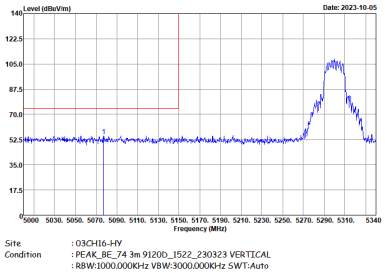
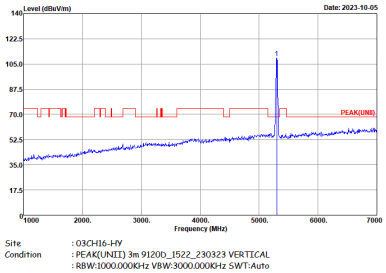
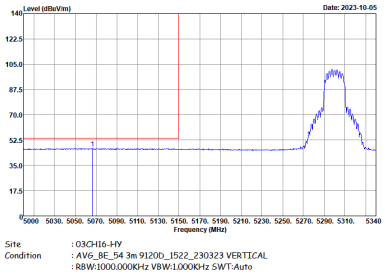
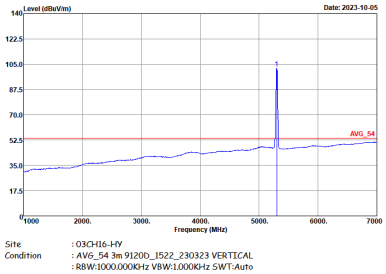
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH52 5260MHz - R	
5+18	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

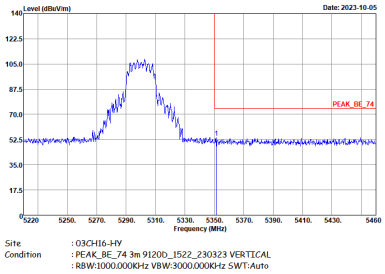
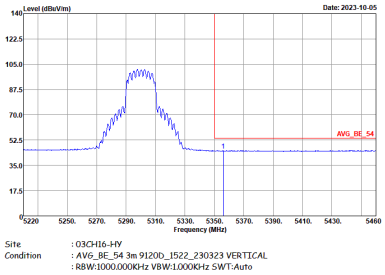
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH52 5260MHz - L	
5+18	Horizontal	Fundamental
Peak		
Avg.		

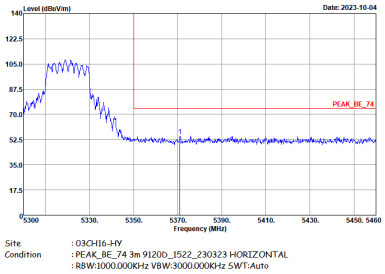
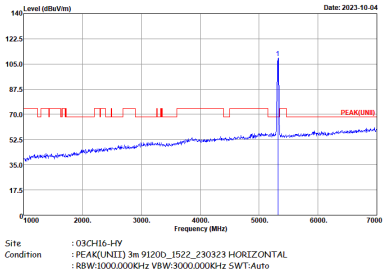
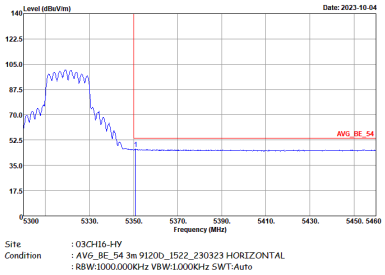
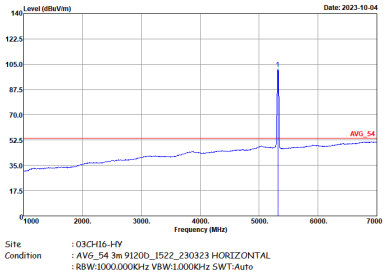
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH52 5260MHz - R	
5+18	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH60 5300MHz - L	
5+18	Horizontal	Fundamental
Peak		
Avg.		

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH60 5300MHz - R	
5+18	Horizontal	Fundamental
Peak	 Site : 03CH16-HV Condition : PEAK_BE_74 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH16-HV Condition : AVG_BE_54 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH60 5300MHz - L	
5+18	Vertical	Fundamental
Peak		
Avg.		

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH60 5300MHz - R	
5+18	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH64 5320MHz	
5+18	Horizontal	Fundamental
Peak	 Site : 03CH16-HV Condition : PEAK_BE_74 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HV Condition : PEAK(UNII) 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH16-HV Condition : AVG_BE_54 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto	 Site : 03CH16-HV Condition : AVG_54 3m 9120D_1522_230323 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto