FCC RADIO TEST REPORT

FCC ID	:	**2AG7G-G1A**
Equipment	:	**Plume Adaptive WiFi**
Brand Name	:	**Plume Design Inc**
Model Name	:	**G1A**
Marketing Name	:	**SuperPod Aon with WiFi 6**
Applicant	:	**Plume Design Inc** **325 Lytton Ave., Palo Alto, CA 94301**
Manufacturer	:	**Plume Design Inc** **325 Lytton Ave., Palo Alto, CA 94301**
Standard	:	**FCC Part 15 Subpart E §15.407**

The product was received on Mar. 23, 2021 and testing was started from May 07, 2021 and completed on Jul. 06, 2021. We, Sporton International Inc. EMC & Wireless Communications 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 of Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR111911E	01	Initial issue of report	Jul. 21, 2021

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	6dB & 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	Under limit 1.20 dB at 5645.200 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 15.10 dB at 0.596 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Keven Cheng

Report Producer: Celery Wei

1 General Description

1.1 Product Feature of Equipment Under Test

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

Product Specification subjective to this standard	
Antenna Type	**WLAN** **<2400 MHz ~ 2483.5 MHz>** <Ant. 1>: IFA Antenna <Ant. 2>: IFA Antenna **<5180 MHz ~ 5320 MHz>** <Ant. 1>: IFA Antenna <Ant. 2>: IFA Antenna <Ant. 3>: IFA Antenna <Ant. 4>: IFA Antenna **<5500 MHz ~ 5825 MHz>** <Ant. 1>: IFA Antenna <Ant. 2>: IFA Antenna **Bluetooth - LE:** IFA Antenna

Antenna information		
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	Ant. 1: 5.9 Ant. 2: 3.7

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

1.2 Modification of EUT

No modifications are made to the EUT during all test items.

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	TH02-HY, CO05-HY

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH16-HY (TAF Code: 3786)
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory

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

FCC designation No.: TW1190 and TW3786

1.4 Applicable Standards

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

2 Test Configuration of Equipment Under Test

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

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel in "#" were 802.11ac VHT80 and 802.11ax HE80.

2.2 Test Mode

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

Single Mode

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

MIMO Mode

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

TXBF Mode

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

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth - LE Idle + Lan 1 Link + Lan 2 Link + Adapter

<CDD Mode>

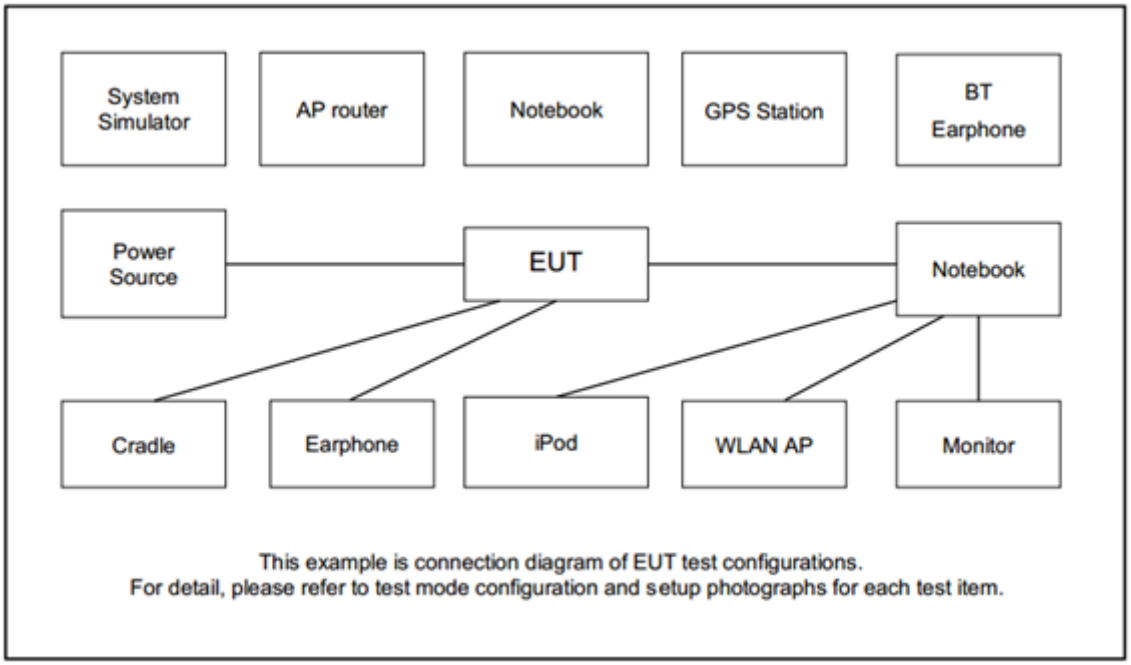
Ch. #		Band IV：5725-5850 MHz			
		802.11a	802.11ax HE20	802.11ax HE40	802.11ax HE80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

<TXBF Mode>

Ch. #		Band IV：5725-5850 MHz		
		802.11ax HE20	802.11ax HE40	802.11ax HE80
L	Low	149	151	-
M	Middle	157	-	155
H	High	165	159	-

Remark: For radiation spurious emission, the final modulation and the worst data rate was reference 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.	Phone	SAMSUNG	SM-A730F/DS	A3LSMA730F	N/A	N/A
2.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	Dell	Latitude 5480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	PC	msi	9461NGW	PD99461NG	N/A	Unshielded, 1.8m
5.	RJ-45 Cable	N/A	N/A	N/A	Unshielded,1.5m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “accessMTool_REL_3_1_0_1” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

For TXBF mode, the modulation modes and data rates manipulated by the command lines in the engineering program made the EUT link to another EUT by power under the normal operation. The “PUTTY_Release 0.60” software tool was used to enable the EUT to transmit signals continuously.

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 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

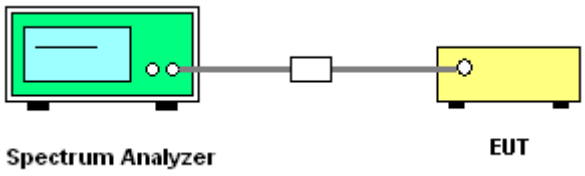
3.1.2 Measuring Instruments

See list of measuring equipment of 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 for the band 5.725-5.85 GHz
2. Set RBW = 100 kHz.
3. Set the VBW ≥ 3 x RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

3.1.4 Test Setup

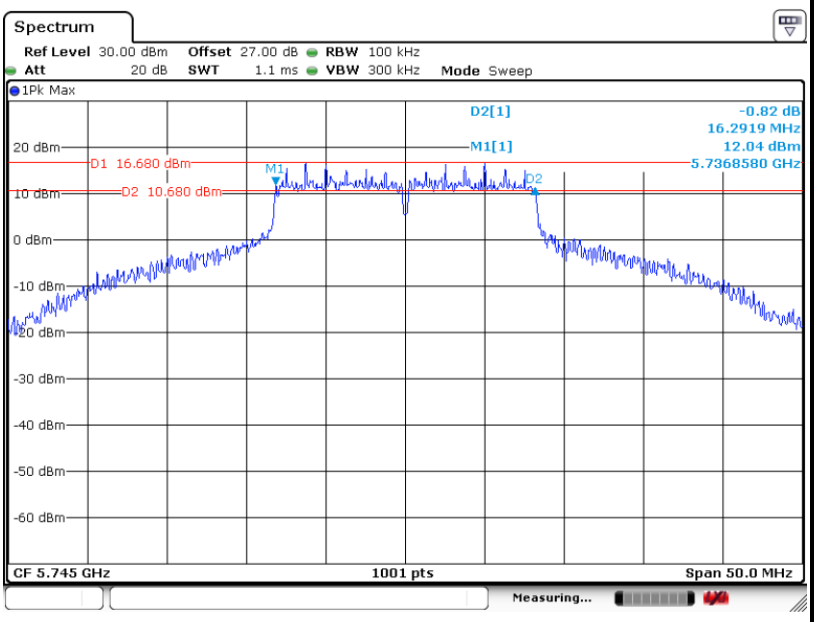


3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

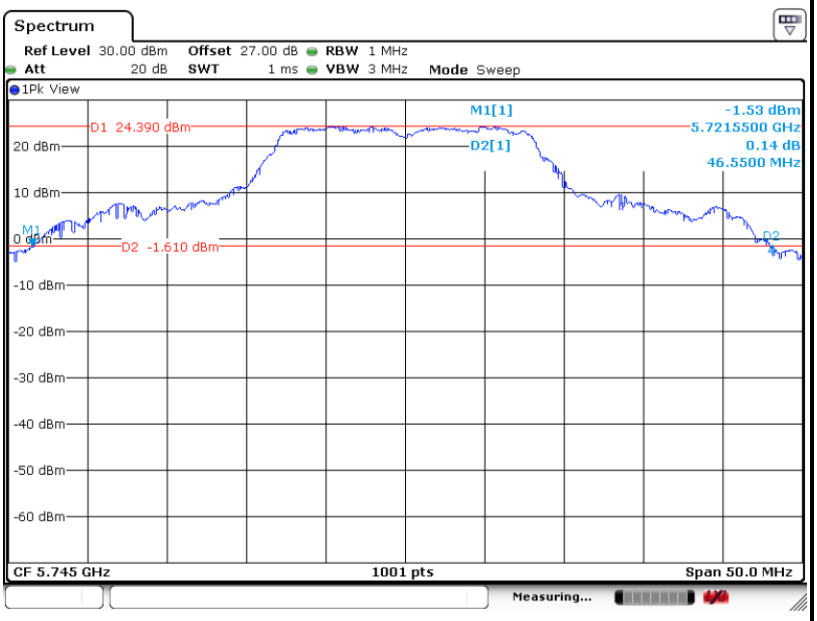
Please refer to Appendix A.

<CDD Mode>

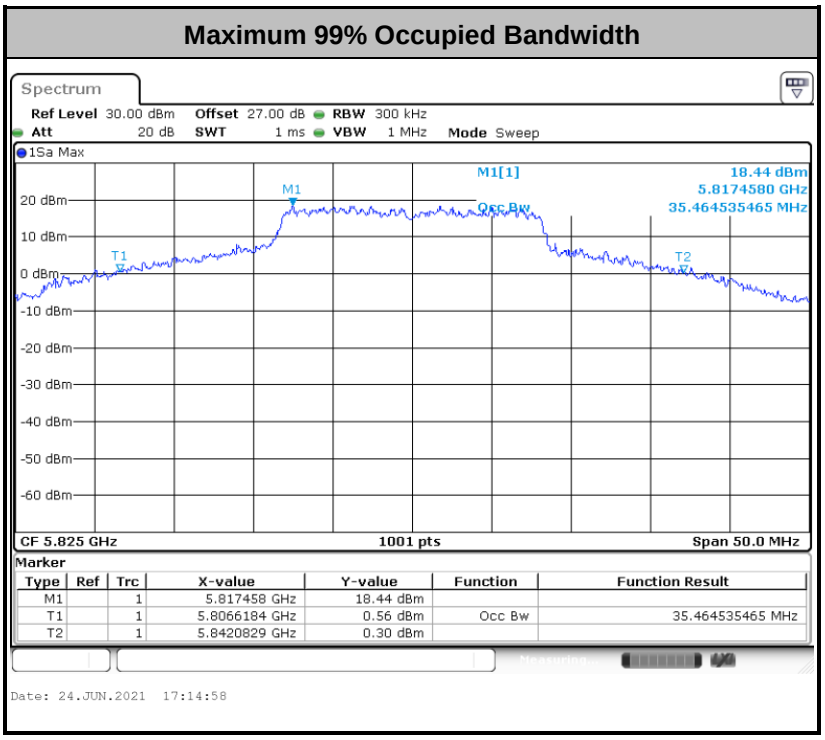
Minimum 6dB Bandwidth



Maximum 26dB Bandwidth



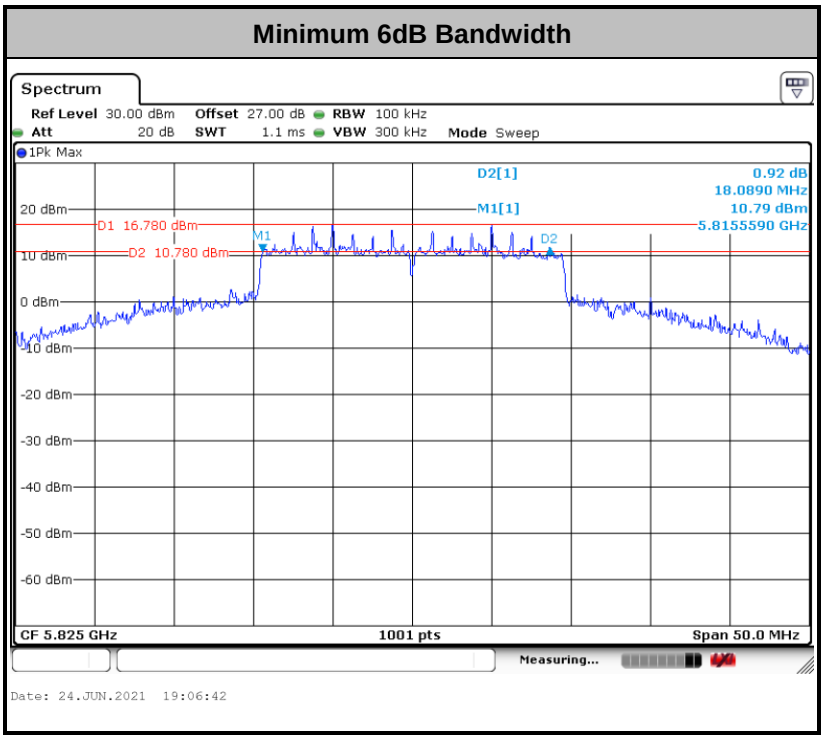
Maximum 99% Occupied Bandwidth



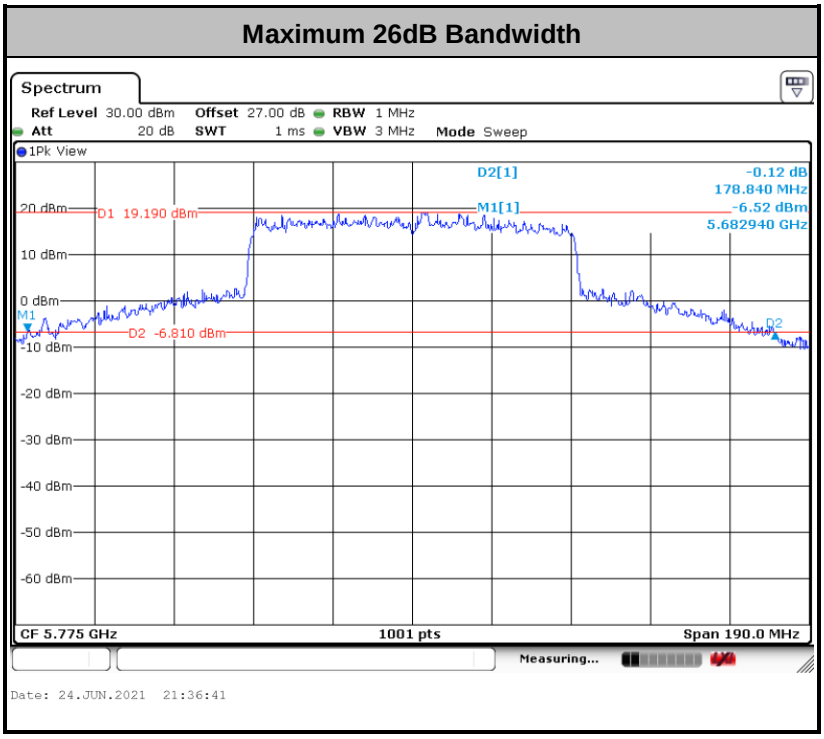
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax Mode>

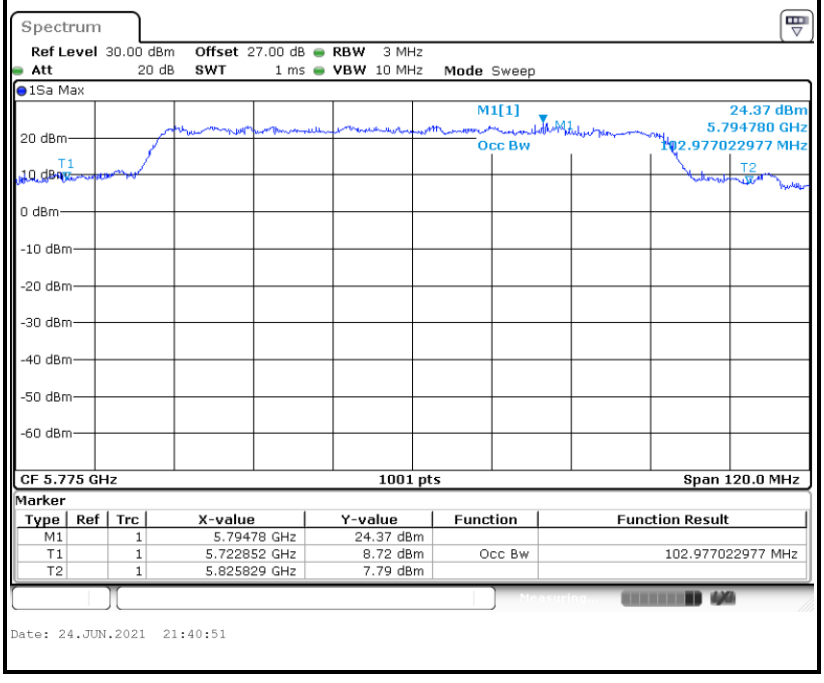
Minimum 6dB Bandwidth



Maximum 26dB Bandwidth



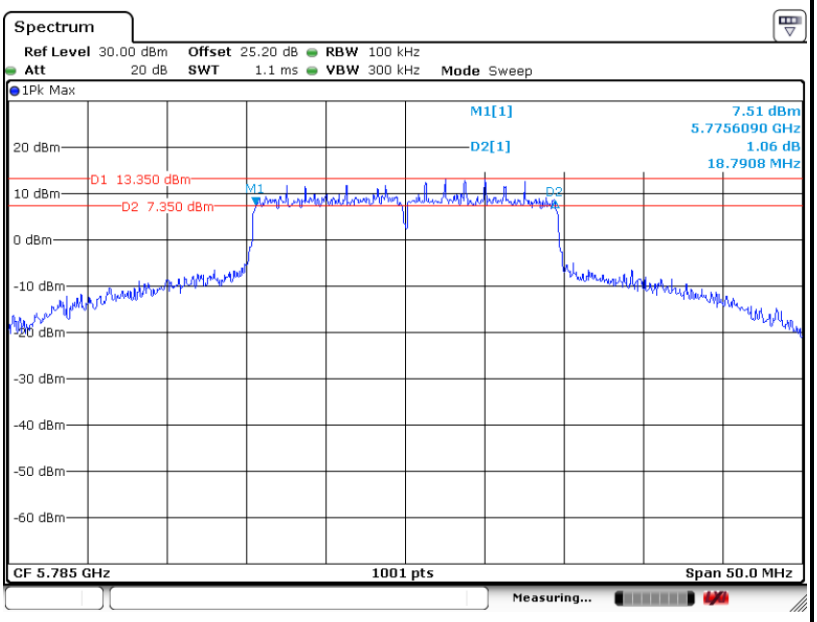
Maximum 99% Occupied Bandwidth



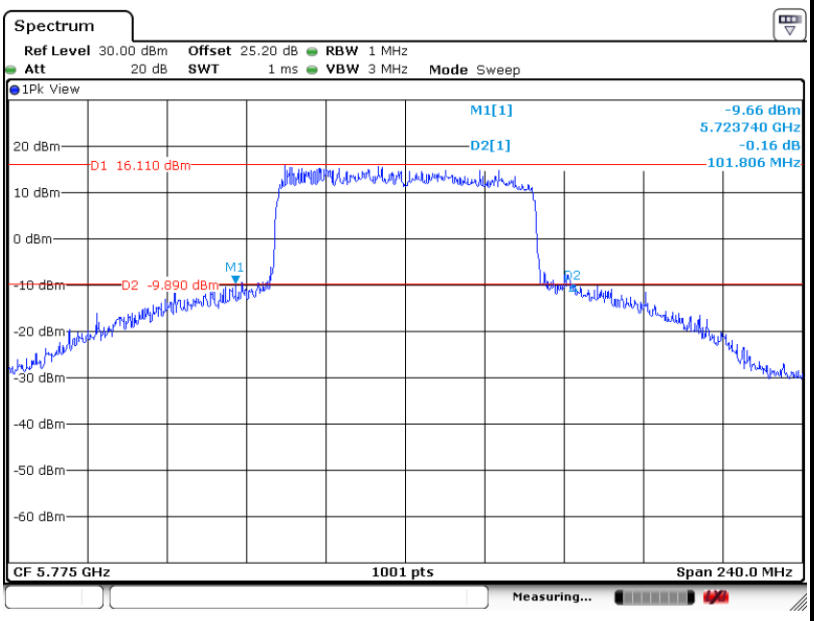
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<TXBF Modes>

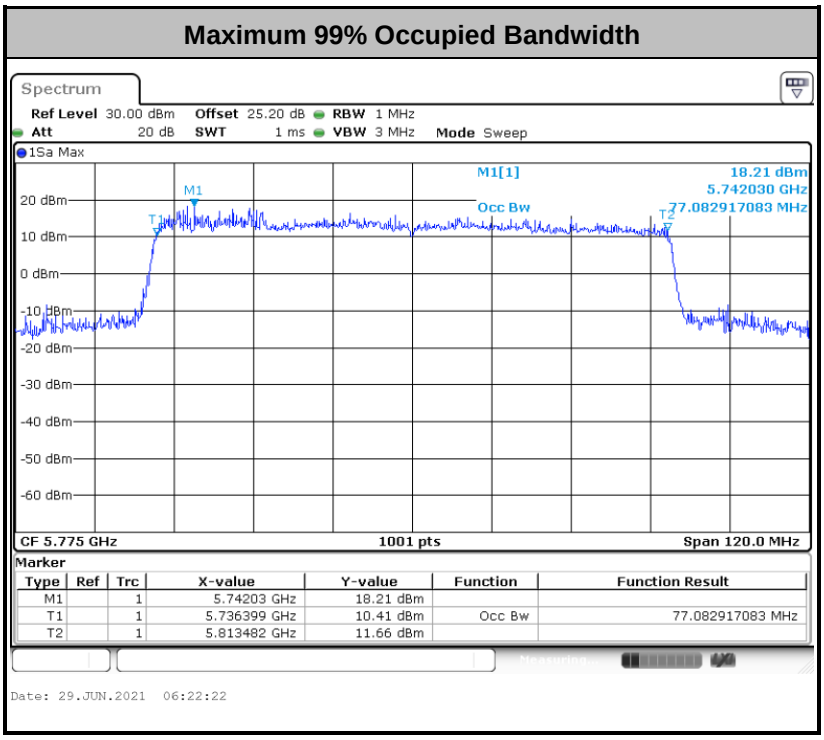
Minimum 6dB Bandwidth



Maximum 26dB Bandwidth



Maximum 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

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

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.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

<CDD Modes>

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.

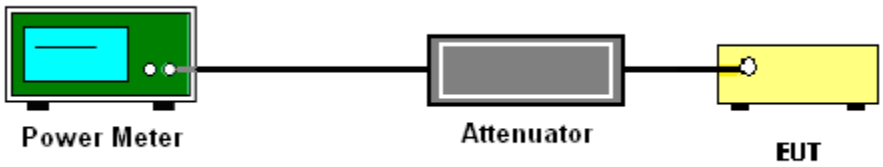
<TXBF Modes>

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

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.

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

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

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

See list of measuring equipment of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section F) Maximum power spectral density.

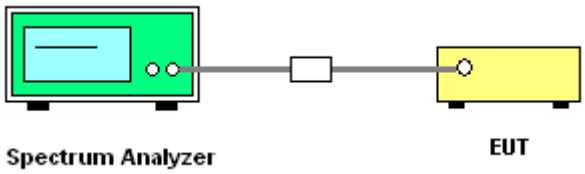
 # Method SA-3 #

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

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
  Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

1. The RF output of EUT was 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 (c): Measure and add 10 log(N_{ANT}) dB.
   With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity 10 log(N_{ANT}) dB is added to each spectrum value before comparing to the emission limit. The addition of 10 log(N_{ANT}) dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{ANT}$ th of the PSD limit.

3.3.4 Test Setup

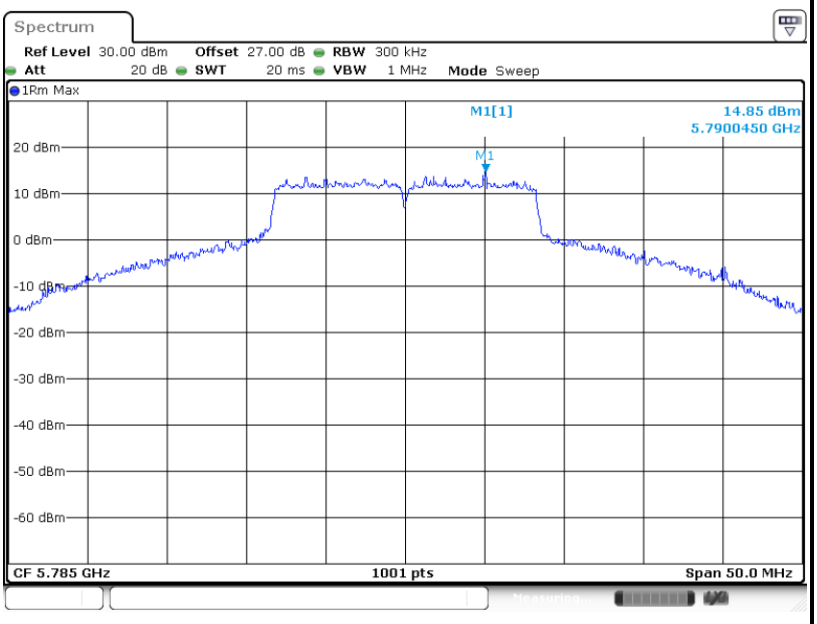


3.3.5 Test Result of Power Spectral Density

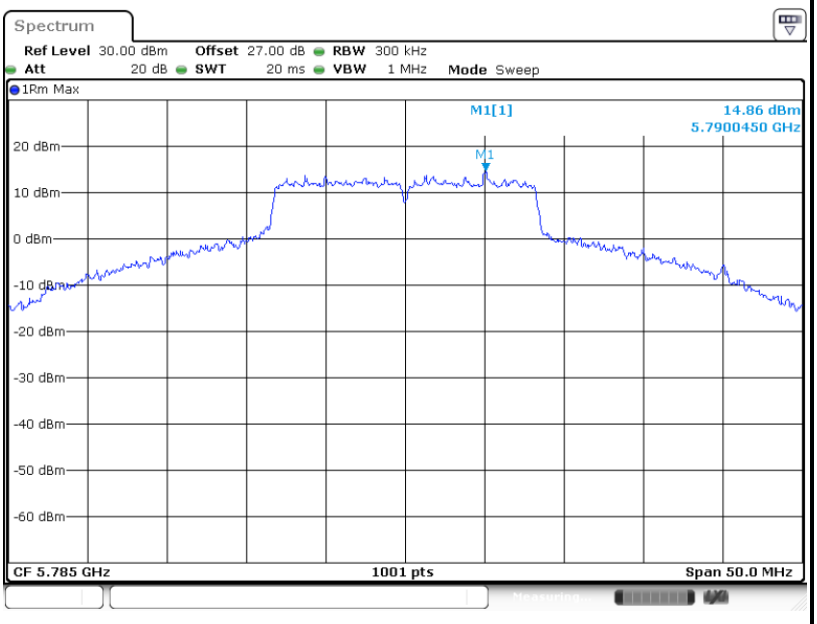
Please refer to Appendix A.

<CDD Modes>

Worst Case Power Density (dBm/MHz) for MIMO Ant. 1

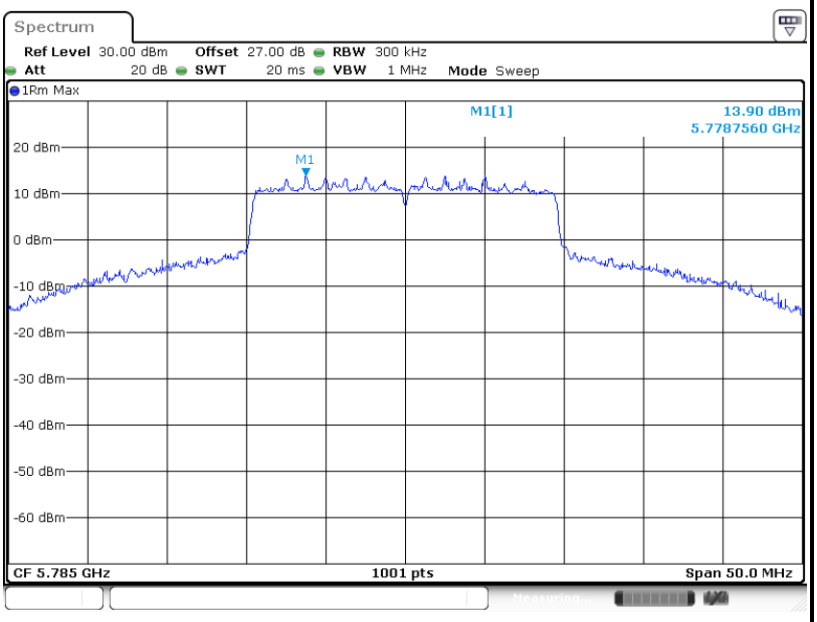


Worst Case Power Density (dBm/MHz) for MIMO Ant. 2

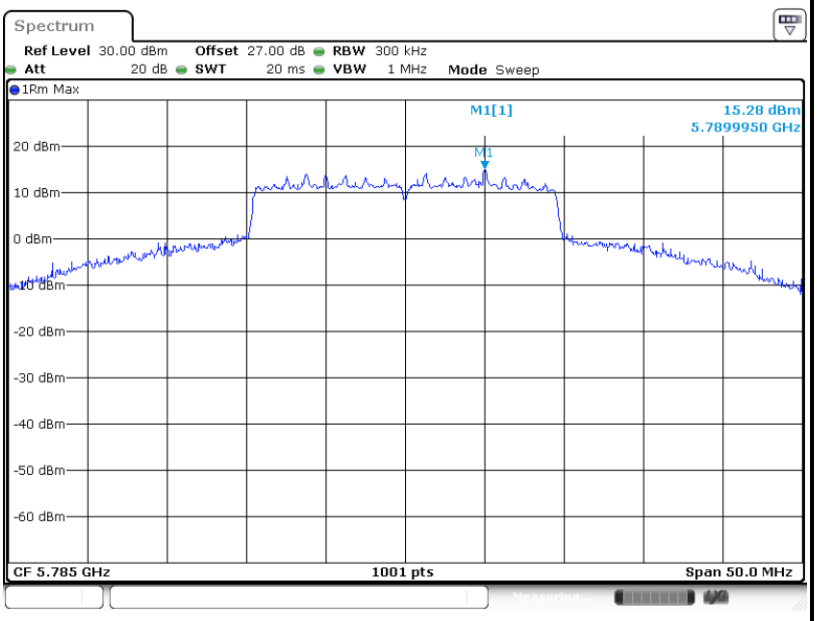


<802.11ax Mode>

Worst Case Power Density (dBm/MHz) for MIMO Ant. 1

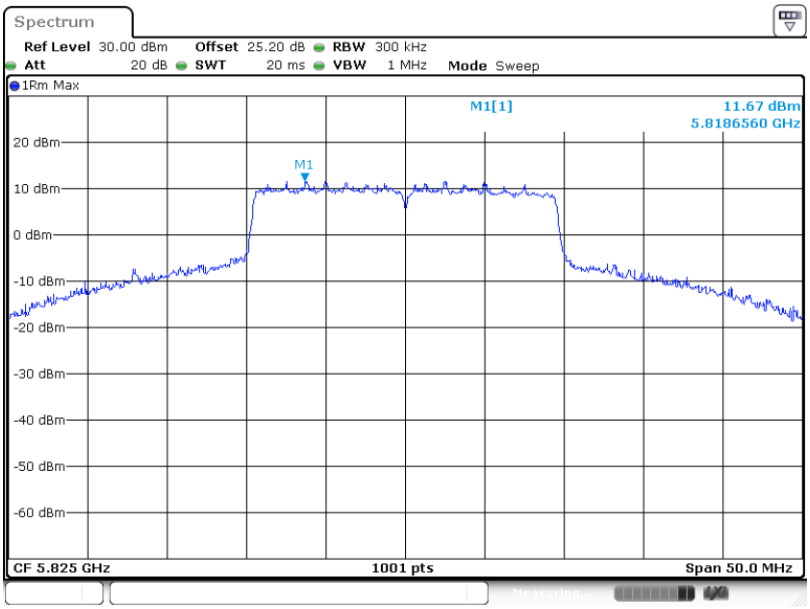


Worst Case Power Density (dBm/MHz) for MIMO Ant. 2

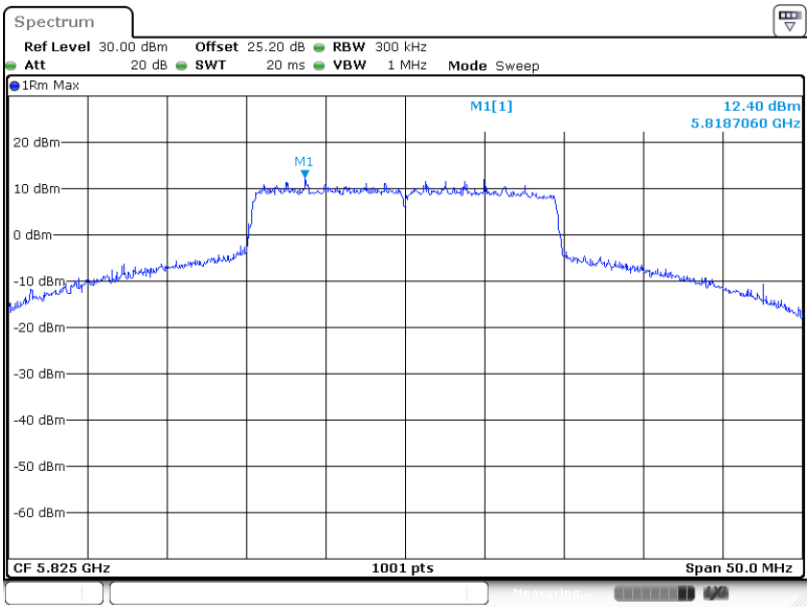


<TXBF Modes>

Worst Case Power Density (dBm/MHz) for MIMO Ant. 1



Worst Case Power Density (dBm/MHz) for MIMO Ant. 2



3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(2) Unwanted spurious emissions fallen 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

See list of measuring equipment of 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

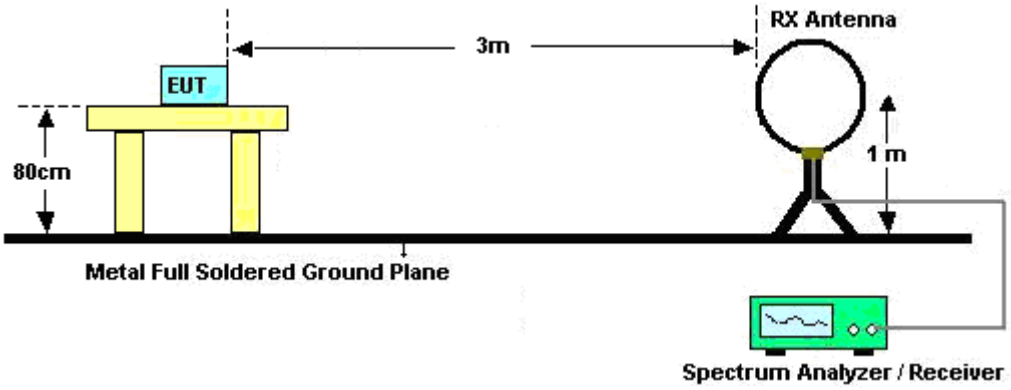
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

   - 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 was 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 was set 3 meters from the interference receiving antenna which was 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 was 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. For testing below 1 GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.

7. For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

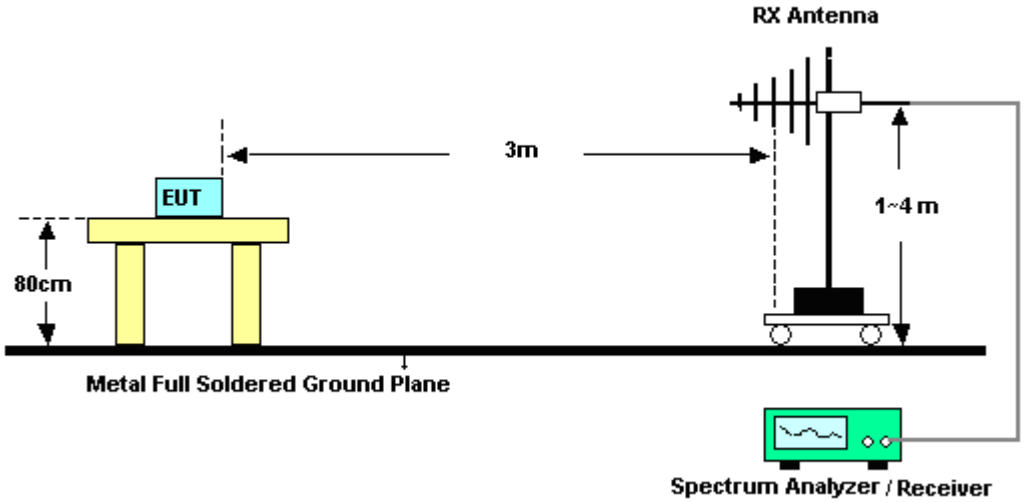
3.4.4 Test Setup

For radiated emissions below 30MHz

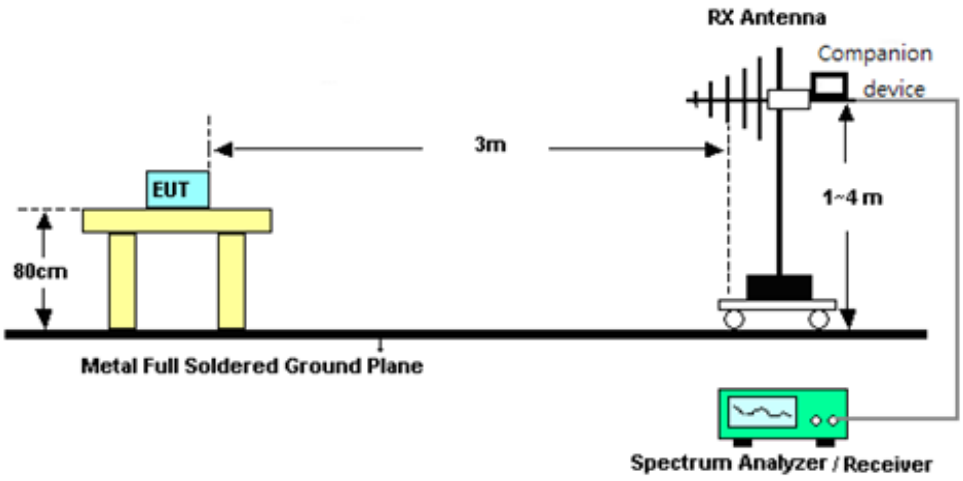


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

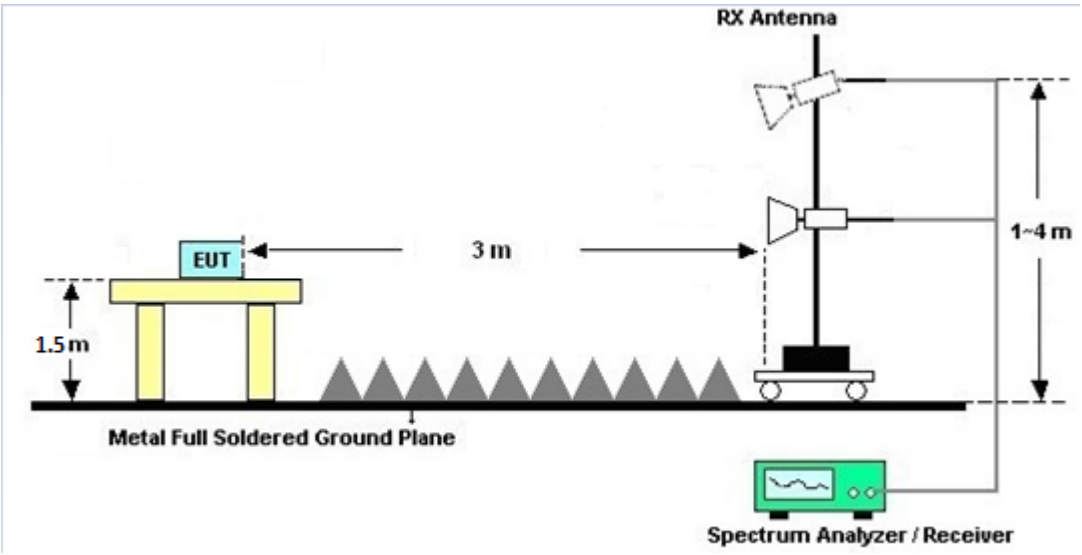


<TXBF Modes>

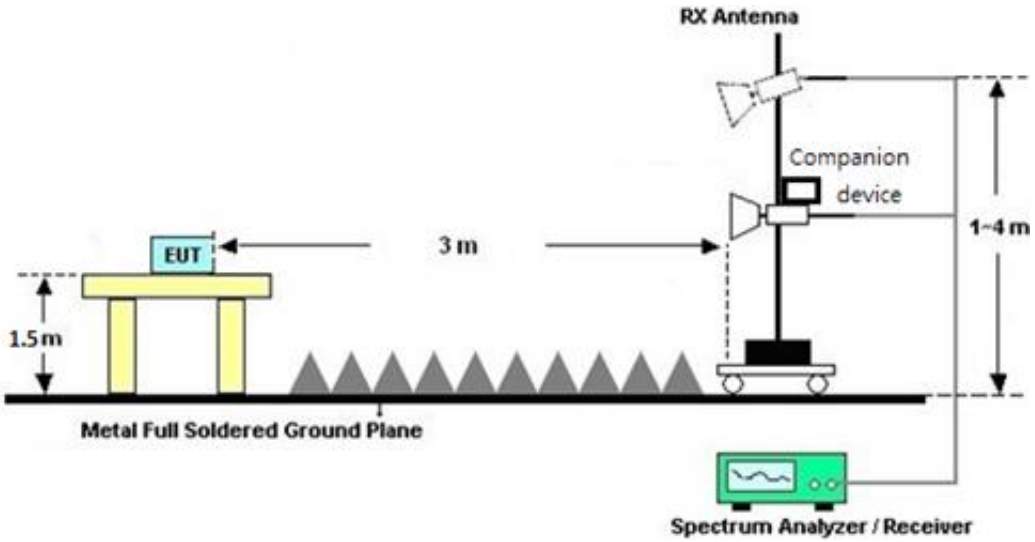


For radiated test above 1GHz

<CDD Mode>



<TXBF Modes>



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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was 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 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 Unwanted Radiated Emission (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.

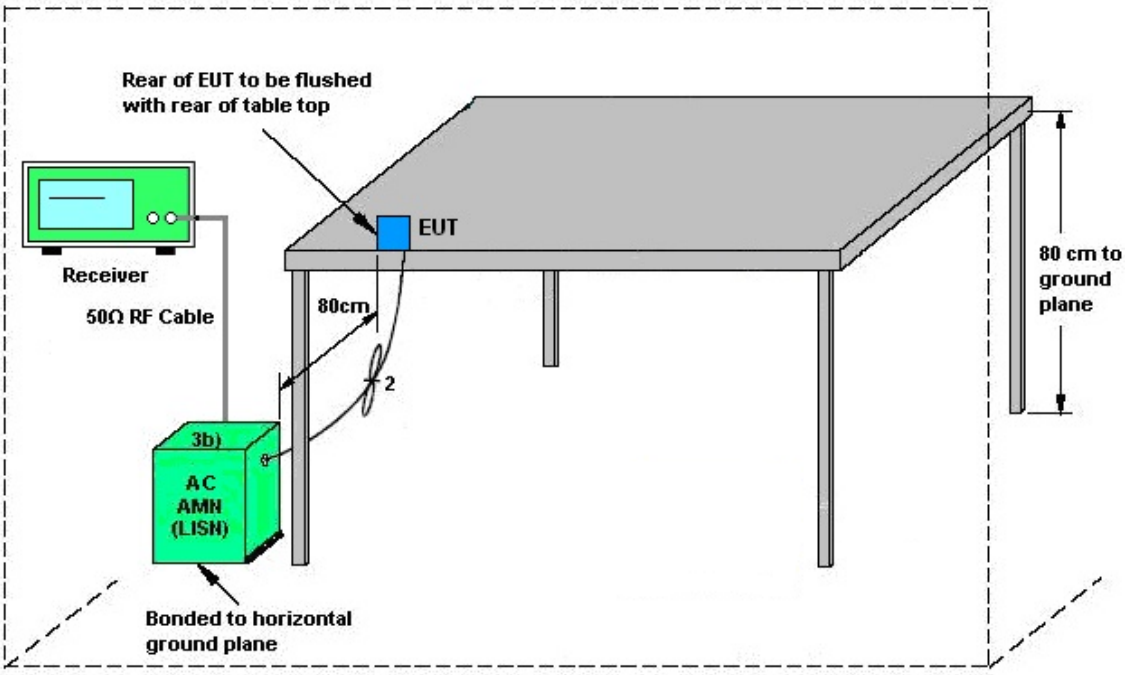
3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was 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 sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
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 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

3.7 Antenna Requirements

3.7.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

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

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

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

<CDD Modes>

			DG for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	Ant. 1 (dBi)	Ant. 2 (dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	5.90	3.70	5.90	7.88	0.00	1.88

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

where

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

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

N_{ANT} = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

The EUT supports beamforming for 802.11ac modes.

The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

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

			DG for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	Ant 1 (dBi)	Ant 2 (dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	5.90	3.70	7.88	7.88	1.88	1.88

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	May 07, 2021~ Jun. 23, 2021	Jul. 13, 2021	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01 N-06	47020 & 06	30MHz to 1GHz	Oct. 11, 2020	May 07, 2021~ Jun. 23, 2021	Oct. 10, 2021	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Sep. 30, 2020	May 07, 2021~ Jun. 23, 2021	Sep. 29, 2021	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1G~18GHz	Sep. 29, 2020	May 07, 2021~ Jun. 23, 2021	Sep. 28, 2021	Radiation (03CH16-HY)
Amplifier	EMCI	EMC051845SE	980729	1-18GHz	Jul. 10, 2020	May 07, 2021~ Jun. 23, 2021	Jul. 09, 2021	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	00993	18GHz ~40GHz	Nov. 19, 2020	May 07, 2021~ Jun. 23, 2021	Nov. 18, 2021	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY53270264	1GHz~26.5GHz	Dec. 10, 2020	May 07, 2021~ Jun. 23, 2021	Dec. 09, 2021	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A	MY59053012	3Hz~26.5GHz	Nov. 18, 2020	May 07, 2021~ Jun. 23, 2021	Nov. 17, 2021	Radiation (03CH16-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 15, 2021	May 07, 2021~ Jun. 23, 2021	Jan. 14, 2022	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/4PE	NA	Aug. 29, 2020	May 07, 2021~ Jun. 23, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/4PE	NA	Aug. 29, 2020	May 07, 2021~ Jun. 23, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300-5757	NA	Aug. 29, 2020	May 07, 2021~ Jun. 23, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	May 07, 2021~ Jun. 23, 2021	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	May 07, 2021~ Jun. 23, 2021	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	May 07, 2021~ Jun. 23, 2021	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	May 07, 2021~ Jun. 23, 2021	N/A	Radiation (03CH16-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 03, 2021	Jun. 24, 2021~ Jul. 06, 2021	Mar. 02, 2022	Conducted (TH02-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO10	10MHz~6GHz	Dec. 16, 2020	Jun. 24, 2021~ Jul. 06, 2021	Dec. 15, 2021	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	Jun. 24, 2021~ Jul. 06, 2021	Jul. 21, 2021	Conducted (TH02-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2021	Jun. 24, 2021~ Jul. 06, 2021	Mar. 16, 2022	Conducted (TH02-HY)

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	May 22, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	May 22, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	May 22, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	May 22, 2021	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	May 22, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Feb. 25, 2021	May 22, 2021	Feb. 24, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	May 22, 2021	Dec. 30, 2021	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.3 dB**

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.3 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.7 dB**

Appendix A. Test Result of Conducted Test Items

<CDD Mode>

Test Engineer:	Eason Huang	Temperature:	21~25	°C
Test Date:	2021/6/24~2021/7/6	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

Band IV single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	149	5745	28.97	-	46.50	-	16.34	-	0.5	Pass
11a	6Mbps	1	157	5785	29.17	-	46.55	-	16.29	-	0.5	Pass
11a	6Mbps	1	165	5825	28.72	-	46.40	-	16.34	-	0.5	Pass

Band IV MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	149	5745	29.52	35.11	46.55	46.35	16.29	16.39	0.5	Pass
11a	6Mbps	2	157	5785	27.52	33.46	46.20	45.55	16.29	16.34	0.5	Pass
11a	6Mbps	2	165	5825	28.87	35.46	46.45	46.35	16.29	16.34	0.5	Pass

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TEST RESULTS DATA
Average Power Table

Band IV single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	27.10	-		30.00	-	5.90	3.70	Pass
11a	6Mbps	1	157	5785	26.90	-		30.00	-	5.90	3.70	Pass
11a	6Mbps	1	165	5825	26.30	-		30.00	-	5.90	3.70	Pass
HT20	MCS0	1	149	5745	27.00	-		30.00	-	5.90	3.70	Pass
HT20	MCS0	1	157	5785	26.90	-		30.00	-	5.90	3.70	Pass
HT20	MCS0	1	165	5825	26.20	-		30.00	-	5.90	3.70	Pass
HT40	MCS0	1	151	5755	26.00	-		30.00	-	5.90	3.70	Pass
HT40	MCS0	1	159	5795	26.40	-		30.00	-	5.90	3.70	Pass
VHT20	MCS0	1	149	5745	26.90	-		30.00	-	5.90	3.70	Pass
VHT20	MCS0	1	157	5785	26.80	-		30.00	-	5.90	3.70	Pass
VHT20	MCS0	1	165	5825	26.10	-		30.00	-	5.90	3.70	Pass
VHT40	MCS0	1	151	5755	26.00	-		30.00	-	5.90	3.70	Pass
VHT40	MCS0	1	159	5795	26.30	-		30.00	-	5.90	3.70	Pass
VHT80	MCS0	1	155	5775	24.80	-		30.00	-	5.90	3.70	Pass

Band IV MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	26.30	26.20	29.26	30.00		5.90		Pass
11a	6Mbps	2	157	5785	26.60	26.80	29.71	30.00		5.90		Pass
11a	6Mbps	2	165	5825	26.10	26.30	29.21	30.00		5.90		Pass
HT20	MCS0	2	149	5745	26.30	26.40	29.36	30.00		5.90		Pass
HT20	MCS0	2	157	5785	26.70	26.80	29.76	30.00		5.90		Pass
HT20	MCS0	2	165	5825	26.00	26.30	29.16	30.00		5.90		Pass
HT40	MCS0	2	151	5755	25.10	25.00	28.06	30.00		5.90		Pass
HT40	MCS0	2	159	5795	25.70	25.70	28.71	30.00		5.90		Pass
VHT20	MCS0	2	149	5745	26.30	26.40	29.36	30.00		5.90		Pass
VHT20	MCS0	2	157	5785	26.60	26.70	29.66	30.00		5.90		Pass
VHT20	MCS0	2	165	5825	25.90	26.20	29.06	30.00		5.90		Pass
VHT40	MCS0	2	151	5755	25.10	25.00	28.06	30.00		5.90		Pass
VHT40	MCS0	2	159	5795	25.70	25.70	28.71	30.00		5.90		Pass
VHT80	MCS0	2	155	5775	23.60	23.40	26.51	30.00		5.90		Pass

TEST RESULTS DATA
Power Spectral Density

Band IV single antenna														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	2.22	-	16.65	-		30.00	30.00	5.90	3.70	Pass
11a	6Mbps	1	157	5785	2.22	-	16.31	-		30.00	30.00	5.90	3.70	Pass
11a	6Mbps	1	165	5825	2.22	-	15.75	-		30.00	30.00	5.90	3.70	Pass

Band IV MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	2.22		14.39	14.78	17.79	28.12		7.88		Pass
11a	6Mbps	2	157	5785	2.22		17.07	17.08	20.09	28.12		7.88		Pass
11a	6Mbps	2	165	5825	2.22		15.61	16.72	19.73	28.12		7.88		Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

Band IV single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	1	149	5745	Full	30.26	-	52.48	-	18.89	-	0.5	Pass
HE20	MCS0	1	157	5785	Full	30.21	-	52.53	-	18.74	-	0.5	Pass
HE20	MCS0	1	165	5825	Full	29.92	-	52.43	-	18.74	-	0.5	Pass
HE40	MCS0	1	151	5755	Full	57.94	-	96.49	-	37.60	-	0.5	Pass
HE40	MCS0	1	159	5795	Full	58.84	-	101.93	-	37.06	-	0.5	Pass
HE80	MCS0	1	155	5775	Full	88.35	-	176.80	-	75.64	-	0.5	Pass

Band IV MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	149	5745	Full	26.42	33.82	50.33	53.89	18.94	18.64	0.5	Pass
HE20	MCS0	2	157	5785	Full	29.62	35.71	52.23	52.55	18.74	18.24	0.5	Pass
HE20	MCS0	2	165	5825	Full	30.22	37.21	52.61	53.15	18.69	18.09	0.5	Pass
HE40	MCS0	2	151	5755	Full	58.74	71.32	102.49	105.79	37.60	37.60	0.5	Pass
HE40	MCS0	2	159	5795	Full	59.14	66.13	102.63	103.10	37.06	37.60	0.5	Pass
HE80	MCS0	2	155	5775	Full	89.31	102.98	178.84	178.81	75.16	75.16	0.5	Pass

Report Number : FR111911E

TEST RESULTS DATA
Average Power Table

Band IV single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	1	149	5745	Full	27.10	-		30.00	-	5.90	3.70	Pass
HE20	MCS0	1	157	5785	Full	27.00	-		30.00	-	5.90	3.70	Pass
HE20	MCS0	1	165	5825	Full	26.30	-		30.00	-	5.90	3.70	Pass
HE40	MCS0	1	151	5755	Full	26.10	-		30.00	-	5.90	3.70	Pass
HE40	MCS0	1	159	5795	Full	26.50	-		30.00	-	5.90	3.70	Pass
HE80	MCS0	1	155	5775	Full	25.00	-		30.00	-	5.90	3.70	Pass

Band IV MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	26.40	26.50	29.46	30.00		5.90		Pass
HE20	MCS0	2	157	5785	Full	26.70	26.80	29.76	30.00		5.90		Pass
HE20	MCS0	2	165	5825	Full	26.10	26.40	29.26	30.00		5.90		Pass
HE40	MCS0	2	151	5755	Full	25.20	25.10	28.16	30.00		5.90		Pass
HE40	MCS0	2	159	5795	Full	25.80	25.80	28.81	30.00		5.90		Pass
HE80	MCS0	2	155	5775	Full	23.70	23.50	26.61	30.00		5.90		Pass

TEST RESULTS DATA
Power Spectral Density

Band IV single antenna															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	1	149	5745	Full	2.22	-	16.59	-		30.00	30.00	5.90	3.70	Pass
HE20	MCS0	1	157	5785	Full	2.22	-	16.56	-		30.00	30.00	5.90	3.70	Pass
HE20	MCS0	1	165	5825	Full	2.22	-	15.97	-		30.00	30.00	5.90	3.70	Pass
HE40	MCS0	1	151	5755	Full	2.22	-	11.14	-		30.00	30.00	5.90	3.70	Pass
HE40	MCS0	1	159	5795	Full	2.22	-	12.32	-		30.00	30.00	5.90	3.70	Pass
HE80	MCS0	1	155	5775	Full	2.22	-	6.58	-		30.00	30.00	5.90	3.70	Pass

Band IV MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	2.22		14.90	15.04	18.05	28.12		7.88		Pass
HE20	MCS0	2	157	5785	Full	2.22		16.12	17.50	20.51	28.12		7.88		Pass
HE20	MCS0	2	165	5825	Full	2.22		15.70	16.43	19.44	28.12		7.88		Pass
HE40	MCS0	2	151	5755	Full	2.22		10.08	10.01	13.09	28.12		7.88		Pass
HE40	MCS0	2	159	5795	Full	2.22		10.95	10.96	13.97	28.12		7.88		Pass
HE80	MCS0	2	155	5775	Full	2.22		5.48	5.77	8.78	28.12		7.88		Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)

<TXBF Mode>

Test Engineer	Derek Hsu	Temperature	21~25	°C
Test Date	2021/6/24~2021/7/1	Relative Humidity	51~54	%

TEST RESULTS DATA
Average Power Table

Band IV MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/ Fail
					Ant 1	Ant 2	SUM	Ant 1 + 2	Ant 1 + 2	
HT20	MCS0	2	149	5745	24.40	24.30	27.36	28.12	7.88	Pass
HT20	MCS0	2	157	5785	24.40	24.20	27.31	28.12	7.88	Pass
HT20	MCS0	2	165	5825	25.00	24.90	27.96	28.12	7.88	Pass
HT40	MCS0	2	151	5755	24.40	24.00	27.21	28.12	7.88	Pass
HT40	MCS0	2	159	5795	25.00	24.90	27.96	28.12	7.88	Pass
VHT20	MCS0	2	149	5745	24.40	24.30	27.36	28.12	7.88	Pass
VHT20	MCS0	2	157	5785	24.40	24.20	27.31	28.12	7.88	Pass
VHT20	MCS0	2	165	5825	25.00	24.90	27.96	28.12	7.88	Pass
VHT40	MCS0	2	151	5755	24.30	23.90	27.11	28.12	7.88	Pass
VHT40	MCS0	2	159	5795	25.00	24.90	27.96	28.12	7.88	Pass
VHT80	MCS0	2	155	5775	22.40	22.30	25.36	28.12	7.88	Pass

TEST RESULTS DATA
6dB and 99% OBW

Band IV MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		99% Bandwidth (MHz)		6 dB Min. Limit (MHz)	Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	149	5745	Full	46.33	51.46	18.94	18.90	21.73	28.62	0.5	Pass
HE20	MCS0	2	157	5785	Full	46.43	51.82	18.99	18.79	22.98	29.07	0.5	Pass
HE20	MCS0	2	165	5825	Full	51.10	50.98	18.90	18.90	31.62	32.77	0.5	Pass
HE40	MCS0	2	151	5755	Full	75.34	89.80	36.61	36.70	39.26	49.25	0.5	Pass
HE40	MCS0	2	159	5795	Full	89.05	92.23	35.98	37.60	47.65	53.85	0.5	Pass
HE80	MCS0	2	155	5775	Full	81.17	101.81	75.84	75.80	77.08	76.96	0.5	Pass

TEST RESULTS DATA
Average Power Table

Band IV MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)	DG (dBi)	Pass/ Fail
						Ant 1	Ant 2	SUM	Ant 1 + 2	Ant 1 + 2	
HE20	MCS0	2	149	5745	Full	24.40	24.50	27.46	28.12	7.88	Pass
HE20	MCS0	2	157	5785	Full	24.50	24.50	27.51	28.12	7.88	Pass
HE20	MCS0	2	165	5825	Full	25.00	25.00	28.01	28.12	7.88	Pass
HE40	MCS0	2	151	5755	Full	24.50	24.30	27.41	28.12	7.88	Pass
HE40	MCS0	2	159	5795	Full	25.00	25.00	28.01	28.12	7.88	Pass
HE80	MCS0	2	155	5775	Full	22.50	22.40	25.46	28.12	7.88	Pass

TEST RESULTS DATA
Power Spectral Density

Band IV MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)	DG (dBi)	Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1 + 2	Ant 1 + 2	
HE20	MCS0	2	149	5745	Full	12.88	13.31	16.32	28.12	7.88	Pass
HE20	MCS0	2	157	5785	Full	13.14	13.91	16.92	28.12	7.88	Pass
HE20	MCS0	2	165	5825	Full	13.89	14.62	17.63	28.12	7.88	Pass
HE40	MCS0	2	151	5755	Full	13.05	12.30	16.06	28.12	7.88	Pass
HE40	MCS0	2	159	5795	Full	13.67	12.09	16.68	28.12	7.88	Pass
HE80	MCS0	2	155	5775	Full	9.55	10.59	13.60	28.12	7.88	Pass

Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)

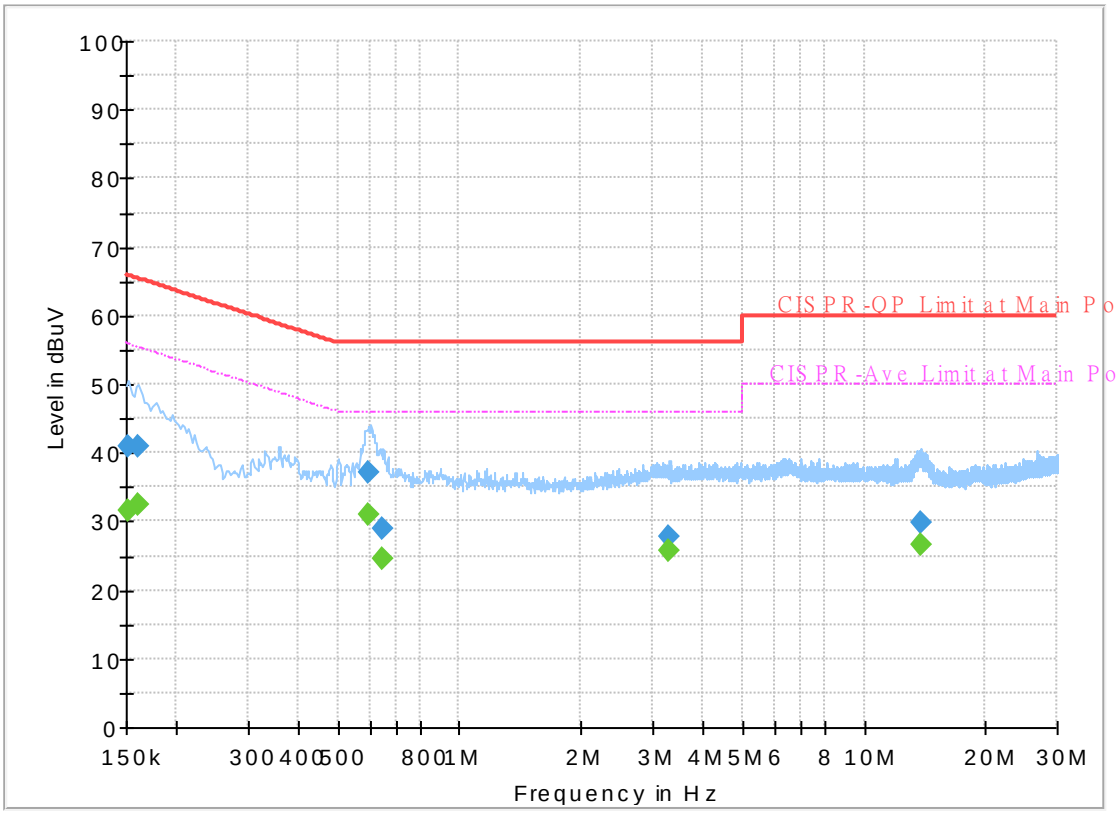
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	**Temperature :**	23~26℃
		Relative Humidity :	40~50%

EUT Information

Report NO :	111911
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Line

Full Spectrum



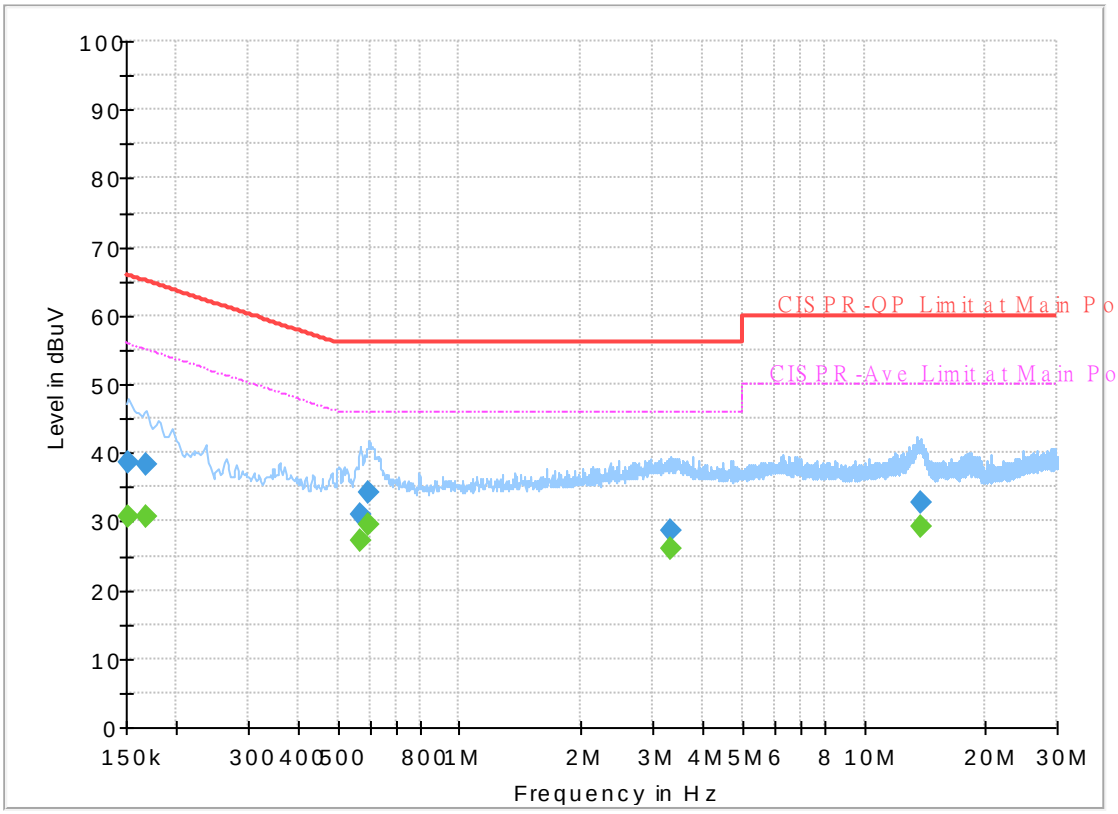
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	31.69	55.88	24.19	L1	OFF	19.5
0.152250	41.04	---	65.88	24.84	L1	OFF	19.5
0.161250	---	32.49	55.40	22.91	L1	OFF	19.5
0.161250	40.90	---	65.40	24.50	L1	OFF	19.5
0.595500	---	30.90	46.00	15.10	L1	OFF	19.8
0.595500	37.08	---	56.00	18.92	L1	OFF	19.8
0.647250	---	24.42	46.00	21.58	L1	OFF	19.8
0.647250	28.89	---	56.00	27.11	L1	OFF	19.8
3.306750	---	25.66	46.00	20.34	L1	OFF	19.9
3.306750	27.89	---	56.00	28.11	L1	OFF	19.9
13.888500	---	26.74	50.00	23.26	L1	OFF	20.1
13.888500	29.86	---	60.00	30.14	L1	OFF	20.1

EUT Information

Report NO :	111911
Test Mode :	Mode 1
Test Voltage :	120Vac/60Hz
Phase :	Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	30.59	55.88	25.29	N	OFF	19.5
0.152250	38.65	---	65.88	27.23	N	OFF	19.5
0.168000	---	30.56	55.06	24.50	N	OFF	19.5
0.168000	38.33	---	65.06	26.73	N	OFF	19.5
0.568500	---	27.13	46.00	18.87	N	OFF	19.8
0.568500	31.06	---	56.00	24.94	N	OFF	19.8
0.597750	---	29.43	46.00	16.57	N	OFF	19.8
0.597750	34.23	---	56.00	21.77	N	OFF	19.8
3.333750	---	25.91	46.00	20.09	N	OFF	19.9
3.333750	28.52	---	56.00	27.48	N	OFF	19.9
13.753500	---	29.13	50.00	20.87	N	OFF	20.2
13.753500	32.88	---	60.00	27.12	N	OFF	20.2

Appendix C. Radiated Spurious Emission

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

<CDD Mode>

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5648.2	61.53	-6.67	68.2	46.04	31.6	13.68	29.79	269	188	P	H
		5699.4	78.42	-26.34	104.76	62.8	31.7	13.73	29.81	269	188	P	H
		5719	91.7	-18.82	110.52	75.95	31.81	13.75	29.81	269	188	P	H
		5724.4	96.37	-24.46	120.83	80.59	31.85	13.75	29.82	269	188	P	H
	*	5745	119.94	-	-	104.02	31.97	13.77	29.82	269	188	P	H
	*	5745	111.87	-	-	95.95	31.97	13.77	29.82	269	188	A	H
													H
													H
		5646.4	63.89	-4.31	68.2	48.39	31.61	13.68	29.79	100	167	P	V
		5695	80.24	-21.27	101.51	64.62	31.69	13.73	29.8	100	167	P	V
		5717.6	93.8	-16.33	110.13	78.05	31.81	13.75	29.81	100	167	P	V
		5725	100.52	-21.68	122.2	84.74	31.85	13.75	29.82	100	167	P	V
	*	5745	122.71	-	-	106.79	31.97	13.77	29.82	100	167	P	V
	*	5745	114.6	-	-	98.68	31.97	13.77	29.82	100	167	A	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5628.2	57.13	-11.07	68.2	41.6	31.64	13.67	29.78	268	188	P	H
		5677.4	59.08	-29.44	88.52	43.52	31.65	13.71	29.8	268	188	P	H
		5713	67.5	-41.34	108.84	51.79	31.78	13.74	29.81	268	188	P	H
		5724	68.64	-51.28	119.92	52.87	31.84	13.75	29.82	268	188	P	H
	*	5785	117.74	-	-	101.77	32	13.81	29.84	268	188	P	H
	*	5785	109.58	-	-	93.61	32	13.81	29.84	268	188	A	H
		5850	66.04	-56.16	122.2	49.99	32.1	13.81	29.86	268	188	P	H
		5857.6	61.75	-48.32	110.07	45.69	32.12	13.81	29.87	268	188	P	H
		5879.8	56.4	-45.23	101.63	40.3	32.16	13.81	29.87	268	188	P	H
		5936.8	54	-14.2	68.2	37.82	32.27	13.81	29.9	268	188	P	H
													H
802.11a CH 157 5785MHz													H
		5630.8	61.1	-7.1	68.2	45.57	31.64	13.67	29.78	100	173	P	V
		5684.4	63.64	-30.05	93.69	48.05	31.67	13.72	29.8	100	173	P	V
		5719.8	67.55	-43.19	110.74	51.79	31.82	13.75	29.81	100	173	P	V
		5723.4	72.6	-45.95	118.55	56.82	31.84	13.75	29.81	100	173	P	V
	*	5785	121.54	-	-	105.57	32	13.81	29.84	100	173	P	V
	*	5785	113.55	-	-	97.58	32	13.81	29.84	100	173	A	V
		5852.8	68.36	-47.46	115.82	52.3	32.11	13.81	29.86	100	173	P	V
		5855.4	67.56	-43.13	110.69	51.51	32.11	13.81	29.87	100	173	P	V
		5878.2	58.27	-44.55	102.82	42.17	32.16	13.81	29.87	100	173	P	V
		5936	54.38	-13.82	68.2	38.2	32.27	13.81	29.9	100	173	P	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	117.61	-	-	101.59	32.05	13.82	29.85	247	191	P	H
	*	5825	109.48	-	-	93.46	32.05	13.82	29.85	247	191	A	H
		5854.8	82.38	-28.88	111.26	66.32	32.11	13.81	29.86	247	191	P	H
		5855	82.23	-28.57	110.8	66.17	32.11	13.81	29.86	247	191	P	H
		5876.8	65.52	-38.34	103.86	49.43	32.15	13.81	29.87	247	191	P	H
		5941	54.37	-13.83	68.2	38.18	32.28	13.81	29.9	247	191	P	H
													H
802.11a													H
CH 165	*	5825	121.41	-	-	105.39	32.05	13.82	29.85	100	180	P	V
5825MHz	*	5825	113.43	-	-	97.41	32.05	13.82	29.85	100	180	A	V
		5851.2	88.21	-31.25	119.46	72.16	32.1	13.81	29.86	100	180	P	V
		5855	86.63	-24.17	110.8	70.57	32.11	13.81	29.86	100	180	P	V
		5875	71.86	-33.34	105.2	55.77	32.15	13.81	29.87	100	180	P	V
		5933	55.88	-12.32	68.2	39.69	32.27	13.81	29.89	100	180	P	V
													V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	49.27	-24.73	74	44.76	39.91	20.11	55.51	100	0	P	H
		17235	51.84	-16.36	68.2	42.51	40.9	25.16	56.73	100	0	P	H
													H
													H
													H
													H
		11490	48.46	-25.54	74	43.95	39.91	20.11	55.51	100	0	P	V
		17235	51.32	-16.88	68.2	41.99	40.9	25.16	56.73	100	0	P	V
													V
													V
													V
													V
802.11a CH 157 5785MHz		11570	49.23	-24.77	74	44.73	39.76	20.18	55.44	100	0	P	H
		17355	51.44	-16.76	68.2	41.53	41.6	25.21	56.9	100	0	P	H
													H
													H
													H
													H
		11570	48.58	-25.42	74	44.08	39.76	20.18	55.44	100	0	P	V
		17355	51.17	-17.03	68.2	41.26	41.6	25.21	56.9	100	0	P	V
													V
													V
													V
													V

802.11a CH 165 5825MHz		11650	49.23	-24.77	74	44.83	39.55	20.23	55.38	100	0	P	H
		17475	50.95	-17.25	68.2	40.31	42.45	25.25	57.06	100	0	P	H
													H
													H
													H
													H
		11650	48.21	-25.79	74	43.81	39.55	20.23	55.38	100	0	P	V
		17475	51.43	-16.77	68.2	40.79	42.45	25.25	57.06	100	0	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE20_Full (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5647	58.59	-9.61	68.2	43.09	31.61	13.68	29.79	267	192	P	H
		5696.8	74.78	-28.06	102.84	59.16	31.69	13.73	29.8	267	192	P	H
		5719.8	89.67	-21.07	110.74	73.91	31.82	13.75	29.81	267	192	P	H
		5724.8	94.18	-27.56	121.74	78.4	31.85	13.75	29.82	267	192	P	H
	*	5745	120.26	-	-	104.34	31.97	13.77	29.82	267	192	P	H
	*	5745	110.09	-	-	94.17	31.97	13.77	29.82	267	192	A	H
802.11ax													H
HE20 Full													H
CH 149		5649.4	62.68	-5.52	68.2	47.19	31.6	13.68	29.79	100	167	P	V
5745MHz		5697	77.43	-25.56	102.99	61.81	31.69	13.73	29.8	100	167	P	V
		5719.6	92.94	-17.75	110.69	77.18	31.82	13.75	29.81	100	167	P	V
		5725	101.48	-20.72	122.2	85.7	31.85	13.75	29.82	100	167	P	V
	*	5745	123.56	-	-	107.64	31.97	13.77	29.82	100	167	P	V
	*	5745	113.48	-	-	97.56	31.97	13.77	29.82	100	167	A	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5600	56.67	-11.53	68.2	41.1	31.7	13.64	29.77	267	189	P	H
		5697.6	60.97	-42.46	103.43	45.35	31.7	13.73	29.81	267	189	P	H
		5719.2	67.91	-42.67	110.58	52.15	31.82	13.75	29.81	267	189	P	H
		5724.8	70.23	-51.51	121.74	54.45	31.85	13.75	29.82	267	189	P	H
	*	5785	119.79	-	-	103.82	32	13.81	29.84	267	189	P	H
	*	5785	109.38	-	-	93.41	32	13.81	29.84	267	189	A	H
		5850	67.36	-54.84	122.2	51.31	32.1	13.81	29.86	267	189	P	H
		5855.4	66.3	-44.39	110.69	50.25	32.11	13.81	29.87	267	189	P	H
		5875.4	58.02	-46.88	104.9	41.93	32.15	13.81	29.87	267	189	P	H
		5949	54.68	-13.52	68.2	38.47	32.3	13.81	29.9	267	189	P	H
802.11ax													H
HE20 Full													H
CH 157		5600.8	59.99	-8.21	68.2	44.42	31.7	13.64	29.77	100	167	P	V
5785MHz		5689	64.39	-32.7	97.09	48.79	31.68	13.72	29.8	100	167	P	V
		5719.4	72.7	-37.93	110.63	56.94	31.82	13.75	29.81	100	167	P	V
		5723.8	71.87	-47.59	119.46	56.1	31.84	13.75	29.82	100	167	P	V
	*	5785	123.64	-	-	107.67	32	13.81	29.84	100	167	P	V
	*	5785	113.25	-	-	97.28	32	13.81	29.84	100	167	A	V
		5850	72.28	-49.92	122.2	56.23	32.1	13.81	29.86	100	167	P	V
		5859.4	68.98	-40.59	109.57	52.92	32.12	13.81	29.87	100	167	P	V
		5876.8	62.09	-41.77	103.86	46	32.15	13.81	29.87	100	167	P	V
		5939.6	55.32	-12.88	68.2	39.13	32.28	13.81	29.9	100	167	P	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	120.11	-	-	104.09	32.05	13.82	29.85	265	191	P	H
	*	5825	109.69	-	-	93.67	32.05	13.82	29.85	265	191	A	H
		5850	87.1	-35.1	122.2	71.05	32.1	13.81	29.86	265	191	P	H
		5856.4	81.14	-29.27	110.41	65.09	32.11	13.81	29.87	265	191	P	H
		5876.6	68.92	-35.09	104.01	52.83	32.15	13.81	29.87	265	191	P	H
		5943.8	54.26	-13.94	68.2	38.06	32.29	13.81	29.9	265	191	P	H
802.11ax													H
HE20 Full													H
CH 165	*	5825	123.44	-	-	107.42	32.05	13.82	29.85	100	181	P	V
5825MHz	*	5825	113.15	-	-	97.13	32.05	13.82	29.85	100	181	A	V
		5850.2	90.81	-30.93	121.74	74.76	32.1	13.81	29.86	100	181	P	V
		5855.4	85.56	-25.13	110.69	69.51	32.11	13.81	29.87	100	181	P	V
		5876.8	71.94	-31.92	103.86	55.85	32.15	13.81	29.87	100	181	P	V
		5942.4	55.16	-13.04	68.2	38.97	32.28	13.81	29.9	100	181	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11490	49.16	-24.84	74	44.65	39.91	20.11	55.51	100	0	P	H
		17235	51.39	-16.81	68.2	42.06	40.9	25.16	56.73	100	0	P	H
													H
													H
802.11ax													H
HE20 Full													H
CH 149		11490	48.63	-25.37	74	44.12	39.91	20.11	55.51	100	0	P	V
5745MHz		17235	51.2	-17	68.2	41.87	40.9	25.16	56.73	100	0	P	V
													V
													V
													V
													V
		11570	48.14	-25.86	74	43.64	39.76	20.18	55.44	100	0	P	H
		17355	51.37	-16.83	68.2	41.46	41.6	25.21	56.9	100	0	P	H
													H
													H
802.11ax													H
HE20 Full													H
CH 157		11570	48.38	-25.62	74	43.88	39.76	20.18	55.44	100	0	P	V
5785MHz		17355	51.38	-16.82	68.2	41.47	41.6	25.21	56.9	100	0	P	V
													V
													V
													V
													V

		11650	49.42	-24.58	74	45.02	39.55	20.23	55.38	100	0	P	H
		17475	51.5	-16.7	68.2	40.86	42.45	25.25	57.06	100	0	P	H
													H
													H
802.11ax													H
HE20 Full													H
CH 165		11650	49	-25	74	44.6	39.55	20.23	55.38	100	0	P	V
5825MHz		17475	51.03	-17.17	68.2	40.39	42.45	25.25	57.06	100	0	P	V
													V
													V
													V
													V

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

Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5648.4	62.38	-5.82	68.2	46.89	31.6	13.68	29.79	268	193	P	H
		5700	76.61	-28.59	105.2	60.99	31.7	13.73	29.81	268	193	P	H
		5718.6	88.98	-21.43	110.41	73.23	31.81	13.75	29.81	268	193	P	H
		5724.4	91.23	-29.6	120.83	75.45	31.85	13.75	29.82	268	193	P	H
	*	5755	115.24	-	-	99.29	32	13.78	29.83	268	193	P	H
	*	5755	105.54	-	-	89.59	32	13.78	29.83	268	193	A	H
		5850	66.88	-55.32	122.2	50.83	32.1	13.81	29.86	268	193	P	H
		5855	65.55	-45.25	110.8	49.49	32.11	13.81	29.86	268	193	P	H
		5875.2	60.16	-44.89	105.05	44.07	32.15	13.81	29.87	268	193	P	H
		5931.8	54.5	-13.7	68.2	38.32	32.26	13.81	29.89	268	193	P	H
802.11ax													H
HE40 Full													H
CH 151		5641.2	65.27	-2.93	68.2	49.75	31.62	13.68	29.78	100	173	P	V
5755MHz		5699.8	81.03	-24.02	105.05	65.41	31.7	13.73	29.81	100	173	P	V
		5719	92.74	-17.78	110.52	76.99	31.81	13.75	29.81	100	173	P	V
		5724.4	94.14	-26.69	120.83	78.36	31.85	13.75	29.82	100	173	P	V
	*	5755	118.66	-	-	102.71	32	13.78	29.83	100	173	P	V
	*	5755	109.11	-	-	93.16	32	13.78	29.83	100	173	A	V
		5853	68.97	-46.39	115.36	52.91	32.11	13.81	29.86	100	173	P	V
		5855.8	69.25	-41.33	110.58	53.2	32.11	13.81	29.87	100	173	P	V
		5879	61.49	-40.74	102.23	45.39	32.16	13.81	29.87	100	173	P	V
		5945.6	54.18	-14.02	68.2	37.98	32.29	13.81	29.9	100	173	P	V
													V
													V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5647.4	59.56	-8.64	68.2	44.06	31.61	13.68	29.79	277	189	P	H
		5699.2	69.6	-35.01	104.61	53.98	31.7	13.73	29.81	277	189	P	H
		5718	74.71	-35.53	110.24	58.96	31.81	13.75	29.81	277	189	P	H
		5723.8	75.51	-43.95	119.46	59.74	31.84	13.75	29.82	277	189	P	H
	*	5795	116.9	-	-	100.92	32	13.82	29.84	277	189	P	H
	*	5795	106.07	-	-	90.09	32	13.82	29.84	277	189	A	H
		5850	78.32	-43.88	122.2	62.27	32.1	13.81	29.86	277	189	P	H
		5856.8	76.82	-33.48	110.3	60.77	32.11	13.81	29.87	277	189	P	H
		5876.6	69.31	-34.7	104.01	53.22	32.15	13.81	29.87	277	189	P	H
		5946.8	54.1	-14.1	68.2	37.9	32.29	13.81	29.9	277	189	P	H
802.11ax													H
HE40 Full													H
CH 159		5650	63.42	-4.78	68.2	47.92	31.6	13.69	29.79	100	166	P	V
5795MHz		5694.8	72.78	-28.59	101.37	57.16	31.69	13.73	29.8	100	166	P	V
		5718	79.03	-31.21	110.24	63.28	31.81	13.75	29.81	100	166	P	V
		5720.6	80.96	-31.21	112.17	65.2	31.82	13.75	29.81	100	166	P	V
	*	5795	118.88	-	-	102.9	32	13.82	29.84	100	166	P	V
	*	5795	109.35	-	-	93.37	32	13.82	29.84	100	166	A	V
		5852	81.35	-36.29	117.64	65.3	32.1	13.81	29.86	100	166	P	V
		5862.4	80.14	-28.59	108.73	64.08	32.12	13.81	29.87	100	166	P	V
		5880.4	71.6	-29.59	101.19	55.5	32.16	13.81	29.87	100	166	P	V
		5943.8	54.38	-13.82	68.2	38.18	32.29	13.81	29.9	100	166	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11510	48.38	-25.62	74	43.86	39.88	20.13	55.49	100	0	P	H
		17265	50.67	-17.53	68.2	41.28	40.99	25.17	56.77	100	0	P	H
													H
													H
802.11ax													H
HE40 Full													H
CH 151		11510	48.56	-25.44	74	44.04	39.88	20.13	55.49	100	0	P	V
5755MHz		17265	50.58	-17.62	68.2	41.19	40.99	25.17	56.77	100	0	P	V
													V
													V
													V
													V
		11590	47.61	-26.39	74	43.13	39.72	20.19	55.43	100	0	P	H
		17385	50.86	-17.34	68.2	40.72	41.86	25.22	56.94	100	0	P	H
													H
													H
802.11ax													H
HE40 Full													H
CH 159		11590	48.39	-25.61	74	43.91	39.72	20.19	55.43	100	0	P	V
5795MHz		17385	50.99	-17.21	68.2	40.85	41.86	25.22	56.94	100	0	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE80_Full (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5650	62.58	-5.62	68.2	47.08	31.6	13.69	29.79	267	190	P	H
		5700	77.22	-27.98	105.2	61.6	31.7	13.73	29.81	267	190	P	H
		5717.2	80.02	-30	110.02	64.28	31.8	13.75	29.81	267	190	P	H
		5721.8	84.23	-30.67	114.9	68.46	31.83	13.75	29.81	267	190	P	H
	*	5775	109.99	-	-	94.02	32	13.8	29.83	267	190	P	H
	*	5775	100.5	-	-	84.53	32	13.8	29.83	267	190	A	H
		5850.8	76.02	-44.36	120.38	59.97	32.1	13.81	29.86	267	190	P	H
		5858.2	75.22	-34.68	109.9	59.16	32.12	13.81	29.87	267	190	P	H
		5876.8	65.79	-38.07	103.86	49.7	32.15	13.81	29.87	267	190	P	H
		5941.6	54.49	-13.71	68.2	38.3	32.28	13.81	29.9	267	190	P	H
802.11ax													H
HE80 Full													H
CH 155		5648.8	65.22	-2.98	68.2	49.73	31.6	13.68	29.79	100	166	P	V
5775MHz		5694.4	78.64	-22.43	101.07	63.03	31.69	13.72	29.8	100	166	P	V
		5719.6	84.93	-25.76	110.69	69.17	31.82	13.75	29.81	100	166	P	V
		5724.4	84.16	-36.67	120.83	68.38	31.85	13.75	29.82	100	166	P	V
	*	5775	113.26	-	-	97.29	32	13.8	29.83	100	166	P	V
	*	5775	103.67	-	-	87.7	32	13.8	29.83	100	166	A	V
		5853.6	79.3	-34.69	113.99	63.24	32.11	13.81	29.86	100	166	P	V
		5855.4	78.32	-32.37	110.69	62.27	32.11	13.81	29.87	100	166	P	V
		5875.2	69.99	-35.06	105.05	53.9	32.15	13.81	29.87	100	166	P	V
		5950	55.51	-12.69	68.2	39.3	32.3	13.81	29.9	100	166	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ax HE80_Full (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11550	48.68	-25.32	74	44.18	39.8	20.16	55.46	100	0	P	H
		17325	51.21	-16.99	68.2	41.54	41.32	25.2	56.85	100	0	P	H
													H
													H
802.11ax													H
HE80 Full													H
CH 155		11550	48.71	-25.29	74	44.21	39.8	20.16	55.46	100	0	P	V
5775MHz		17325	51.41	-16.79	68.2	41.74	41.32	25.2	56.85	100	0	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5640.2	64.32	-3.88	68.2	48.8	31.62	13.68	29.78	267	196	P	H
		5697.2	77.77	-25.37	103.14	62.15	31.69	13.73	29.8	267	196	P	H
		5715.6	92.22	-17.35	109.57	76.5	31.79	13.74	29.81	267	196	P	H
		5724.6	99.31	-21.98	121.29	83.53	31.85	13.75	29.82	267	196	P	H
	*	5745	122.89	-	-	106.97	31.97	13.77	29.82	267	196	P	H
	*	5745	114.61	-	-	98.69	31.97	13.77	29.82	267	196	A	H
													H
802.11a													H
CH 149		5647	65.45	-2.75	68.2	49.95	31.61	13.68	29.79	100	179	P	V
5745MHz		5698.6	81.53	-22.64	104.17	65.91	31.7	13.73	29.81	100	179	P	V
		5716.2	92.85	-16.89	109.74	77.12	31.8	13.74	29.81	100	179	P	V
		5722.2	98	-17.82	115.82	82.23	31.83	13.75	29.81	100	179	P	V
	*	5745	124.1	-	-	108.18	31.97	13.77	29.82	100	179	P	V
	*	5745	116.5	-	-	100.58	31.97	13.77	29.82	100	179	A	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5622.4	59.29	-8.91	68.2	43.75	31.66	13.66	29.78	282	195	P	H
		5699.6	68.72	-36.19	104.91	53.1	31.7	13.73	29.81	282	195	P	H
		5711.6	73.39	-35.06	108.45	57.69	31.77	13.74	29.81	282	195	P	H
		5722	75.71	-39.65	115.36	59.94	31.83	13.75	29.81	282	195	P	H
	*	5785	124.14	-	-	108.17	32	13.81	29.84	282	195	P	H
	*	5785	116.08	-	-	100.11	32	13.81	29.84	282	195	A	H
		5853.8	77.43	-36.11	113.54	61.37	32.11	13.81	29.86	282	195	P	H
		5855.2	74.25	-36.49	110.74	58.19	32.11	13.81	29.86	282	195	P	H
		5876	62.74	-41.72	104.46	46.65	32.15	13.81	29.87	282	195	P	H
		5939.2	54.48	-13.72	68.2	38.29	32.28	13.81	29.9	282	195	P	H
													H
802.11a CH 157 5785MHz													H
		5642.8	61.54	-6.66	68.2	46.03	31.61	13.68	29.78	100	179	P	V
		5694.4	68	-33.07	101.07	52.39	31.69	13.72	29.8	100	179	P	V
		5718.4	76.5	-33.85	110.35	60.75	31.81	13.75	29.81	100	179	P	V
		5723	78.52	-39.12	117.64	62.74	31.84	13.75	29.81	100	179	P	V
	*	5785	125.75	-	-	109.78	32	13.81	29.84	100	179	P	V
	*	5785	117.64	-	-	101.67	32	13.81	29.84	100	179	A	V
		5850.2	75.6	-46.14	121.74	59.55	32.1	13.81	29.86	100	179	P	V
		5856.4	75.23	-35.18	110.41	59.18	32.11	13.81	29.87	100	179	P	V
		5877.4	63.08	-40.34	103.42	46.99	32.15	13.81	29.87	100	179	P	V
		5949.6	53.85	-14.35	68.2	37.64	32.3	13.81	29.9	100	179	P	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	123.32	-	-	107.3	32.05	13.82	29.85	266	189	P	H
	*	5825	115.45	-	-	99.43	32.05	13.82	29.85	266	189	A	H
		5851.8	94.81	-23.29	118.1	78.76	32.1	13.81	29.86	266	189	P	H
		5859.6	92.38	-17.13	109.51	76.32	32.12	13.81	29.87	266	189	P	H
		5875	79.43	-25.77	105.2	63.34	32.15	13.81	29.87	266	189	P	H
		5941.6	53.89	-14.31	68.2	37.7	32.28	13.81	29.9	266	189	P	H
													H
802.11a													H
CH 165	*	5825	124.72	-	-	108.7	32.05	13.82	29.85	100	178	P	V
5825MHz	*	5825	117.24	-	-	101.22	32.05	13.82	29.85	100	178	A	V
		5851.4	95.27	-23.74	119.01	79.22	32.1	13.81	29.86	100	178	P	V
		5855.4	94.51	-16.18	110.69	78.46	32.11	13.81	29.87	100	178	P	V
		5875	81.37	-23.83	105.2	65.28	32.15	13.81	29.87	100	178	P	V
		5944.8	55.07	-13.13	68.2	38.87	32.29	13.81	29.9	100	178	P	V
													V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	48.55	-25.45	74	44.04	39.91	20.11	55.51	100	0	P	H
		17235	51.52	-16.68	68.2	42.19	40.9	25.16	56.73	100	0	P	H
													H
													H
													H
													H
		11490	48.98	-25.02	74	44.47	39.91	20.11	55.51	100	0	P	V
		17235	51.22	-16.98	68.2	41.89	40.9	25.16	56.73	100	0	P	V
													V
													V
													V
													V
802.11a CH 157 5785MHz		11570	48.46	-25.54	74	43.96	39.76	20.18	55.44	100	0	P	H
		17355	51.86	-16.34	68.2	41.95	41.6	25.21	56.9	100	0	P	H
													H
													H
													H
													H
		11570	48.9	-25.1	74	44.4	39.76	20.18	55.44	100	0	P	V
		17355	51.58	-16.62	68.2	41.67	41.6	25.21	56.9	100	0	P	V
													V
													V
													V
													V

802.11a CH 165 5825MHz		11650	48.79	-25.21	74	44.39	39.55	20.23	55.38	100	0	P	H
		17475	50.75	-17.45	68.2	40.11	42.45	25.25	57.06	100	0	P	H
													H
													H
													H
													H
		11650	48.46	-25.54	74	44.06	39.55	20.23	55.38	100	0	P	V
		17475	51.07	-17.13	68.2	40.43	42.45	25.25	57.06	100	0	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE20_Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5645.6	65.6	-2.6	68.2	50.1	31.61	13.68	29.79	269	197	P	H
		5698.2	82.53	-21.34	103.87	66.91	31.7	13.73	29.81	269	197	P	H
		5720	94.3	-16.5	110.8	78.54	31.82	13.75	29.81	269	197	P	H
		5724.8	100.33	-21.41	121.74	84.55	31.85	13.75	29.82	269	197	P	H
	*	5745	123.48	-	-	107.56	31.97	13.77	29.82	269	197	P	H
	*	5745	113.86	-	-	97.94	31.97	13.77	29.82	269	197	A	H
802.11ax													H
HE20 Full													H
CH 149		5648.6	66.38	-1.82	68.2	50.89	31.6	13.68	29.79	100	180	P	V
5745MHz		5699	81.58	-22.88	104.46	65.96	31.7	13.73	29.81	100	180	P	V
		5718.6	97.44	-12.97	110.41	81.69	31.81	13.75	29.81	100	180	P	V
		5723.4	100.79	-17.76	118.55	85.01	31.84	13.75	29.81	100	180	P	V
	*	5745	124.61	-	-	108.69	31.97	13.77	29.82	100	180	P	V
	*	5745	115.42	-	-	99.5	31.97	13.77	29.82	100	180	A	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5632	61.25	-6.95	68.2	45.72	31.64	13.67	29.78	280	194	P	H
		5699.4	70.92	-33.84	104.76	55.3	31.7	13.73	29.81	280	194	P	H
		5714	79.51	-29.61	109.12	63.8	31.78	13.74	29.81	280	194	P	H
		5721.8	77.5	-37.4	114.9	61.73	31.83	13.75	29.81	280	194	P	H
	*	5785	124.47	-	-	108.5	32	13.81	29.84	280	194	P	H
	*	5785	114.94	-	-	98.97	32	13.81	29.84	280	194	A	H
		5851.4	76.16	-42.85	119.01	60.11	32.1	13.81	29.86	280	194	P	H
		5861	76.41	-32.71	109.12	60.35	32.12	13.81	29.87	280	194	P	H
		5875.6	67.72	-37.03	104.75	51.63	32.15	13.81	29.87	280	194	P	H
		5926.2	53.73	-14.47	68.2	37.56	32.25	13.81	29.89	280	194	P	H
802.11ax													H
HE20 Full													H
CH 157		5647.2	61.99	-6.21	68.2	46.49	31.61	13.68	29.79	100	179	P	V
5785MHz		5699.4	70.01	-34.75	104.76	54.39	31.7	13.73	29.81	100	179	P	V
		5719.8	78.61	-32.13	110.74	62.85	31.82	13.75	29.81	100	179	P	V
		5724.6	80.69	-40.6	121.29	64.91	31.85	13.75	29.82	100	179	P	V
	*	5785	125.25	-	-	109.28	32	13.81	29.84	100	179	P	V
	*	5785	116.53	-	-	100.56	32	13.81	29.84	100	179	A	V
		5851.8	77.43	-40.67	118.1	61.38	32.1	13.81	29.86	100	179	P	V
		5857	76.22	-34.02	110.24	60.17	32.11	13.81	29.87	100	179	P	V
		5875.2	67.59	-37.46	105.05	51.5	32.15	13.81	29.87	100	179	P	V
		5940.6	54.65	-13.55	68.2	38.46	32.28	13.81	29.9	100	179	P	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	123.92	-	-	107.9	32.05	13.82	29.85	263	192	P	H
	*	5825	114.32	-	-	98.3	32.05	13.82	29.85	263	192	A	H
		5850.8	96.81	-23.57	120.38	80.76	32.1	13.81	29.86	263	192	P	H
		5855.4	94.81	-15.88	110.69	78.76	32.11	13.81	29.87	263	192	P	H
		5876.8	81.28	-22.58	103.86	65.19	32.15	13.81	29.87	263	192	P	H
		5947.4	54.11	-14.09	68.2	37.91	32.29	13.81	29.9	263	192	P	H
802.11ax													H
HE20 Full													H
CH 165	*	5825	125.27	-	-	109.25	32.05	13.82	29.85	100	179	P	V
5825MHz	*	5825	116.02	-	-	100	32.05	13.82	29.85	100	179	A	V
		5851.2	99.85	-19.61	119.46	83.8	32.1	13.81	29.86	100	179	P	V
		5856	94.46	-16.06	110.52	78.41	32.11	13.81	29.87	100	179	P	V
		5876	80.76	-23.7	104.46	64.67	32.15	13.81	29.87	100	179	P	V
		5936.8	54.71	-13.49	68.2	38.53	32.27	13.81	29.9	100	179	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11490	49.62	-24.38	74	45.11	39.91	20.11	55.51	100	0	P	H
		17235	51.89	-16.31	68.2	42.56	40.9	25.16	56.73	100	0	P	H
													H
													H
802.11ax													H
HE20 Full													H
CH 149		11490	49.97	-24.03	74	45.46	39.91	20.11	55.51	100	0	P	V
5745MHz		17235	51.01	-17.19	68.2	41.68	40.9	25.16	56.73	100	0	P	V
													V
													V
													V
													V
		11570	48.97	-25.03	74	44.47	39.76	20.18	55.44	100	0	P	H
		17355	50.85	-17.35	68.2	40.94	41.6	25.21	56.9	100	0	P	H
													H
													H
802.11ax													H
HE20 Full													H
CH 157		11570	49.53	-24.47	74	45.03	39.76	20.18	55.44	100	0	P	V
5785MHz		17355	51.48	-16.72	68.2	41.57	41.6	25.21	56.9	100	0	P	V
													V
													V
													V
													V

		11650	48.69	-25.31	74	44.29	39.55	20.23	55.38	100	0	P	H
		17475	51.72	-16.48	68.2	41.08	42.45	25.25	57.06	100	0	P	H
													H
													H
802.11ax													H
HE20 Full													H
CH 165		11650	49	-25	74	44.6	39.55	20.23	55.38	100	0	P	V
5825MHz		17475	52.18	-16.02	68.2	41.54	42.45	25.25	57.06	100	0	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5649.4	63.29	-4.91	68.2	47.8	31.6	13.68	29.79	270	190	P	H
		5699.6	82.08	-22.83	104.91	66.46	31.7	13.73	29.81	270	190	P	H
		5719.8	91.3	-19.44	110.74	75.54	31.82	13.75	29.81	270	190	P	H
		5724.6	93.4	-27.89	121.29	77.62	31.85	13.75	29.82	270	190	P	H
	*	5755	119.48	-	-	103.53	32	13.78	29.83	270	190	P	H
	*	5755	109.2	-	-	93.25	32	13.78	29.83	270	190	A	H
		5851.8	70.26	-47.84	118.1	54.21	32.1	13.81	29.86	270	190	P	H
		5855.6	66.96	-43.67	110.63	50.91	32.11	13.81	29.87	270	190	P	H
		5883.4	58.45	-40.51	98.96	42.35	32.17	13.81	29.88	270	190	P	H
		5949.6	54.96	-13.24	68.2	38.75	32.3	13.81	29.9	270	190	P	H
802.11ax													H
HE40 Full													H
CH 151		5645.2	67	-1.2	68.2	51.5	31.61	13.68	29.79	100	179	P	V
5755MHz		5699.8	80.62	-24.43	105.05	65	31.7	13.73	29.81	100	179	P	V
		5718.2	93.5	-16.8	110.3	77.75	31.81	13.75	29.81	100	179	P	V
		5721	95.83	-17.25	113.08	80.06	31.83	13.75	29.81	100	179	P	V
	*	5755	119.89	-	-	103.94	32	13.78	29.83	100	179	P	V
	*	5755	111.43	-	-	95.48	32	13.78	29.83	100	179	A	V
		5852.8	69.3	-46.52	115.82	53.24	32.11	13.81	29.86	100	179	P	V
		5856.6	68.45	-41.9	110.35	52.4	32.11	13.81	29.87	100	179	P	V
		5879.4	61.31	-40.62	101.93	45.21	32.16	13.81	29.87	100	179	P	V
		5931.2	54.92	-13.28	68.2	38.74	32.26	13.81	29.89	100	179	P	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5643.4	63.58	-4.62	68.2	48.07	31.61	13.68	29.78	278	194	P	H
		5699.6	72.66	-32.25	104.91	57.04	31.7	13.73	29.81	278	194	P	H
		5720	80	-30.8	110.8	64.24	31.82	13.75	29.81	278	194	P	H
		5722.8	82.4	-34.78	117.18	66.62	31.84	13.75	29.81	278	194	P	H
	*	5795	120.91	-	-	104.93	32	13.82	29.84	278	194	P	H
	*	5795	111.13	-	-	95.15	32	13.82	29.84	278	194	A	H
		5850.2	85.22	-36.52	121.74	69.17	32.1	13.81	29.86	278	194	P	H
		5855	82.83	-27.97	110.8	66.77	32.11	13.81	29.86	278	194	P	H
		5875.4	74.71	-30.19	104.9	58.62	32.15	13.81	29.87	278	194	P	H
		5948.2	54.25	-13.95	68.2	38.04	32.3	13.81	29.9	278	194	P	H
802.11ax													H
HE40 Full													H
CH 159		5648.8	66.06	-2.14	68.2	50.57	31.6	13.68	29.79	100	180	P	V
5795MHz		5699.2	75.23	-29.38	104.61	59.61	31.7	13.73	29.81	100	180	P	V
		5718.4	82.66	-27.69	110.35	66.91	31.81	13.75	29.81	100	180	P	V
		5721.2	83.62	-29.92	113.54	67.85	31.83	13.75	29.81	100	180	P	V
	*	5795	122.85	-	-	106.87	32	13.82	29.84	100	180	P	V
	*	5795	112.97	-	-	96.99	32	13.82	29.84	100	180	A	V
		5850.8	86.84	-33.54	120.38	70.79	32.1	13.81	29.86	100	180	P	V
		5858.4	83.38	-26.47	109.85	67.32	32.12	13.81	29.87	100	180	P	V
		5876.6	76.35	-27.66	104.01	60.26	32.15	13.81	29.87	100	180	P	V
		5949.2	55.04	-13.16	68.2	38.83	32.3	13.81	29.9	100	180	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11510	48.69	-25.31	74	44.17	39.88	20.13	55.49	100	0	P	H
		17265	50.92	-17.28	68.2	41.53	40.99	25.17	56.77	100	0	P	H
													H
													H
802.11ax													H
HE40 Full													H
CH 151		11510	49.28	-24.72	74	44.76	39.88	20.13	55.49	100	0	P	V
5755MHz		17265	50.97	-17.23	68.2	41.58	40.99	25.17	56.77	100	0	P	V
													V
													V
													V
													V
		11590	48.28	-25.72	74	43.8	39.72	20.19	55.43	100	0	P	H
		17385	50.98	-17.22	68.2	40.84	41.86	25.22	56.94	100	0	P	H
													H
													H
802.11ax													H
HE40 Full													H
CH 159		11590	49.21	-24.79	74	44.73	39.72	20.19	55.43	100	0	P	V
5795MHz		17385	51.27	-16.93	68.2	41.13	41.86	25.22	56.94	100	0	P	V
													V
													V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ax HE80_Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5650	63.99	-4.21	68.2	48.49	31.6	13.69	29.79	272	193	P	H
		5697.4	77.74	-25.54	103.28	62.13	31.69	13.73	29.81	272	193	P	H
		5717.6	82.48	-27.65	110.13	66.73	31.81	13.75	29.81	272	193	P	H
		5722.2	83.73	-32.09	115.82	67.96	31.83	13.75	29.81	272	193	P	H
	*	5775	113.49	-	-	97.52	32	13.8	29.83	272	193	P	H
	*	5775	103.82	-	-	87.85	32	13.8	29.83	272	193	A	H
		5852.6	78.33	-37.94	116.27	62.27	32.11	13.81	29.86	272	193	P	H
		5857.4	76.73	-33.4	110.13	60.68	32.11	13.81	29.87	272	193	P	H
		5875	68.68	-36.52	105.2	52.59	32.15	13.81	29.87	272	193	P	H
		5927.2	54.47	-13.73	68.2	38.3	32.25	13.81	29.89	272	193	P	H
802.11ax													H
HE80 Full													H
CH 155		5648.2	65.72	-2.48	68.2	50.23	31.6	13.68	29.79	100	174	P	V
5775MHz		5693.8	77.77	-22.86	100.63	62.16	31.69	13.72	29.8	100	174	P	V
		5708.2	82.01	-25.49	107.5	66.33	31.75	13.74	29.81	100	174	P	V
		5720.4	82.66	-29.05	111.71	66.9	31.82	13.75	29.81	100	174	P	V
	*	5775	115.29	-	-	99.32	32	13.8	29.83	100	174	P	V
	*	5775	105.82	-	-	89.85	32	13.8	29.83	100	174	A	V
		5852.8	80.23	-35.59	115.82	64.17	32.11	13.81	29.86	100	174	P	V
		5860.2	77.41	-31.93	109.34	61.35	32.12	13.81	29.87	100	174	P	V
		5875.8	72.37	-32.24	104.61	56.28	32.15	13.81	29.87	100	174	P	V
		5938.8	54.26	-13.94	68.2	38.07	32.28	13.81	29.9	100	174	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ax HE80_Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11550	49.06	-24.94	74	44.56	39.8	20.16	55.46	100	0	P	H
		17325	51.67	-16.53	68.2	42	41.32	25.2	56.85	100	0	P	H
													H
													H
802.11ax													H
HE80 Full													H
CH 155		11550	48.79	-25.21	74	44.29	39.8	20.16	55.46	100	0	P	V
5775MHz		17325	51.39	-16.81	68.2	41.72	41.32	25.2	56.85	100	0	P	V
													V
													V
													V
													V

Remark

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

Emission below 1GHz

5GHz WIFI 802.11ax HE40 Full (LF @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full LF		86.26	25.75	-14.25	40	42.71	14.3	1.41	32.67	-	-	P	H
		154.16	32.09	-11.41	43.5	45.77	17.1	1.99	32.77	100	0	P	H
		252.13	26.7	-19.3	46	37.94	18.8	2.68	32.72	-	-	P	H
		302.57	26.17	-19.83	46	36.5	19.3	2.92	32.55	-	-	P	H
		568.35	27.8	-18.2	46	30.25	26.14	4.08	32.67	-	-	P	H
		853.53	31.59	-14.41	46	29.87	29.25	5.09	32.62	-	-	P	H
													H
													H
													H
													H
													H
													H
		38.73	32.18	-7.82	40	44.03	20.12	0.81	32.78	100	0	P	V
		95.96	33.48	-10.02	43.5	49.11	15.49	1.5	32.62	-	-	P	V
		129.91	30.62	-12.88	43.5	43.99	17.52	1.8	32.69	-	-	P	V
		181.32	30.87	-12.63	43.5	46.39	15.12	2.21	32.85	-	-	P	V
		213.33	26.53	-16.97	43.5	41.79	15.18	2.42	32.86	-	-	P	V
		268.62	26.75	-19.25	46	37.26	19.39	2.76	32.66	-	-	P	V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Band 4 5725~5850MHz
WIFI 802.11ax HE40_Full (Band Edge @ 3m)
With RJ45

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5637.2	65.91	-2.29	68.2	50.39	31.63	13.67	29.78	269	193	P	H
		5697.6	79.13	-24.3	103.43	63.51	31.7	13.73	29.81	269	193	P	H
		5717.6	91.17	-18.96	110.13	75.42	31.81	13.75	29.81	269	193	P	H
		5725	93.88	-28.32	122.2	78.1	31.85	13.75	29.82	269	193	P	H
	*	5755	118.48	-	-	102.53	32	13.78	29.83	269	193	P	H
	*	5755	109.36	-	-	93.41	32	13.78	29.83	269	193	A	H
		5852.4	67.49	-49.24	116.73	51.44	32.1	13.81	29.86	269	193	P	H
		5857.6	68.29	-41.78	110.07	52.23	32.12	13.81	29.87	269	193	P	H
		5875	60.34	-44.86	105.2	44.25	32.15	13.81	29.87	269	193	P	H
		5934.2	54.43	-13.77	68.2	38.24	32.27	13.81	29.89	269	193	P	H
802.11ax													H
HE40 Full													H
CH 151		5648.4	66.82	-1.38	68.2	51.33	31.6	13.68	29.79	100	172	P	V
5755MHz		5693.2	79.07	-21.12	100.19	63.46	31.69	13.72	29.8	100	172	P	V
		5718.2	93.02	-17.28	110.3	77.27	31.81	13.75	29.81	100	172	P	V
		5723.2	94.27	-23.83	118.1	78.49	31.84	13.75	29.81	100	172	P	V
	*	5755	119.77	-	-	103.82	32	13.78	29.83	100	172	P	V
	*	5755	110.88	-	-	94.93	32	13.78	29.83	100	172	A	V
		5851.8	68.4	-49.7	118.1	52.35	32.1	13.81	29.86	100	172	P	V
		5856.2	68.52	-41.94	110.46	52.47	32.11	13.81	29.87	100	172	P	V
		5878.8	60.62	-41.76	102.38	44.52	32.16	13.81	29.87	100	172	P	V
		5950	54.61	-13.59	68.2	38.4	32.3	13.81	29.9	100	172	P	V
													V
													V

Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Harmonic @ 3m)

With RJ45

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11510	48.65	-25.35	74	44.13	39.88	19.65	55.49	100	0	P	H
		17265	50.98	-17.22	68.2	41.59	40.99	24.67	56.77	100	0	P	H
													H
													H
802.11ax													H
HE40 Full													H
CH 151		11510	48.7	-25.3	74	44.18	39.88	19.65	55.49	100	0	P	V
5755MHz		17265	51.16	-17.04	68.2	41.77	40.99	24.67	56.77	100	0	P	V
													V
													V
													V
													V

Remark

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

<TXBF Mode>

Band 4 - 5725~5850MHz

WIFI 802.11ax HE20_Full (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5649.8	63.41	-4.79	68.2	47.92	31.6	13.68	29.79	287	196	P	H
		5699.8	79.67	-25.38	105.05	64.05	31.7	13.73	29.81	287	196	P	H
		5719.8	92.82	-17.92	110.74	77.06	31.82	13.75	29.81	287	196	P	H
		5722	98.83	-16.53	115.36	83.06	31.83	13.75	29.81	287	196	P	H
	*	5745	121.51	-	-	105.59	31.97	13.77	29.82	287	196	P	H
	*	5745	111.97	-	-	96.05	31.97	13.77	29.82	287	196	A	H
802.11ax													H
HE20 Full													H
CH 149		5647.2	66.32	-1.88	68.2	50.82	31.61	13.68	29.79	100	179	P	V
5745MHz		5698.2	81.39	-22.48	103.87	65.77	31.7	13.73	29.81	100	179	P	V
		5719.2	94.52	-16.06	110.58	78.76	31.82	13.75	29.81	100	179	P	V
		5722.6	99.99	-16.74	116.73	84.21	31.84	13.75	29.81	100	179	P	V
	*	5745	123.39	-	-	107.47	31.97	13.77	29.82	100	179	P	V
	*	5745	115.56	-	-	99.64	31.97	13.77	29.82	100	179	A	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5636.8	62.07	-6.13	68.2	46.55	31.63	13.67	29.78	277	192	P	H
		5699.2	73.1	-31.51	104.61	57.48	31.7	13.73	29.81	277	192	P	H
		5716.6	79.82	-30.03	109.85	64.09	31.8	13.74	29.81	277	192	P	H
		5725	80.06	-42.14	122.2	64.28	31.85	13.75	29.82	277	192	P	H
	*	5785	122.72	-	-	106.75	32	13.81	29.84	277	192	P	H
	*	5785	113.73	-	-	97.76	32	13.81	29.84	277	192	A	H
		5853	77.56	-37.8	115.36	61.5	32.11	13.81	29.86	277	192	P	H
		5856	75.12	-35.4	110.52	59.07	32.11	13.81	29.87	277	192	P	H
		5876.2	64.44	-39.87	104.31	48.35	32.15	13.81	29.87	277	192	P	H
		5931.8	54.6	-13.6	68.2	38.42	32.26	13.81	29.89	277	192	P	H
802.11ax													H
HE20 Full													H
CH 157		5646.6	62.15	-6.05	68.2	46.65	31.61	13.68	29.79	100	181	P	V
5785MHz		5699.8	73.6	-31.45	105.05	57.98	31.7	13.73	29.81	100	181	P	V
		5717	78.88	-31.08	109.96	63.14	31.8	13.75	29.81	100	181	P	V
		5724.8	82.41	-39.33	121.74	66.63	31.85	13.75	29.82	100	181	P	V
	*	5785	124.19	-	-	108.22	32	13.81	29.84	100	181	P	V
	*	5785	115.34	-	-	99.37	32	13.81	29.84	100	181	A	V
		5850.6	76.17	-44.66	120.83	60.12	32.1	13.81	29.86	100	181	P	V
		5855	75.54	-35.26	110.8	59.48	32.11	13.81	29.86	100	181	P	V
		5875	68.4	-36.8	105.2	52.31	32.15	13.81	29.87	100	181	P	V
		5927	54.31	-13.89	68.2	38.14	32.25	13.81	29.89	100	181	P	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
	*	5825	121.29	-	-	105.27	32.05	13.82	29.85	284	191	P	H
	*	5825	111.53	-	-	95.51	32.05	13.82	29.85	284	191	A	H
		5851	96.09	-23.83	119.92	80.04	32.1	13.81	29.86	284	191	P	H
		5857	92.72	-17.52	110.24	76.67	32.11	13.81	29.87	284	191	P	H
		5875	80.26	-24.94	105.2	64.17	32.15	13.81	29.87	284	191	P	H
		5946.6	54.02	-14.18	68.2	37.82	32.29	13.81	29.9	284	191	P	H
802.11ax													H
HE20 Full													H
CH 165	*	5825	124.05	-	-	108.03	32.05	13.82	29.85	100	178	P	V
5825MHz	*	5825	115.41	-	-	99.39	32.05	13.82	29.85	100	178	A	V
		5850	97.81	-24.39	122.2	81.76	32.1	13.81	29.86	100	178	P	V
		5857	94.33	-15.91	110.24	78.28	32.11	13.81	29.87	100	178	P	V
		5875.2	80.81	-24.24	105.05	64.72	32.15	13.81	29.87	100	178	P	V
		5941.4	54.67	-13.53	68.2	38.48	32.28	13.81	29.9	100	178	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11490	49	-25	74	44.49	39.91	20.11	55.51	100	0	P	H
		17235	51.33	-16.87	68.2	42	40.9	25.16	56.73	100	0	P	H
802.11ax													H
HE20 Full													H
CH 149		11490	48.73	-25.27	74	44.22	39.91	20.11	55.51	100	0	P	V
5745MHz		17235	51.38	-16.82	68.2	42.05	40.9	25.16	56.73	100	0	P	V
													V
													V
		11570	48.9	-25.1	74	44.4	39.76	20.18	55.44	100	0	P	H
		17355	51.79	-16.41	68.2	41.88	41.6	25.21	56.9	100	0	P	H
													H
													H
802.11ax													H
HE20 Full													H
CH 157		11570	48.46	-25.54	74	43.96	39.76	20.18	55.44	100	0	P	V
5785MHz		17355	51.69	-16.51	68.2	41.78	41.6	25.21	56.9	100	0	P	V
													V
													V
													V
													V

		11650	48.58	-25.42	74	44.18	39.55	20.23	55.38	100	0	P	H
		17475	51.25	-16.95	68.2	40.61	42.45	25.25	57.06	100	0	P	H
													H
													H
802.11ax													H
HE20 Full													H
CH 165		11650	48.53	-25.47	74	44.13	39.55	20.23	55.38	100	0	P	V
5825MHz		17475	51.35	-16.85	68.2	40.71	42.45	25.25	57.06	100	0	P	V
													V
													V
													V
													V

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

Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5648.4	64.73	-3.47	68.2	49.24	31.6	13.68	29.79	282	196	P	H
		5699.2	78.98	-25.63	104.61	63.36	31.7	13.73	29.81	282	196	P	H
		5719.4	92.09	-18.54	110.63	76.33	31.82	13.75	29.81	282	196	P	H
		5722.4	92.13	-24.14	116.27	76.36	31.83	13.75	29.81	282	196	P	H
	*	5755	117.9	-	-	101.95	32	13.78	29.83	282	196	P	H
	*	5755	110.03	-	-	94.08	32	13.78	29.83	282	196	A	H
		5851.2	65.76	-53.7	119.46	49.71	32.1	13.81	29.86	282	196	P	H
		5857.8	64.17	-45.84	110.01	48.11	32.12	13.81	29.87	282	196	P	H
		5876	58.38	-46.08	104.46	42.29	32.15	13.81	29.87	282	196	P	H
		5927.4	54.27	-13.93	68.2	38.1	32.25	13.81	29.89	282	196	P	H
802.11ax													H
HE40 Full													H
CH 151		5647.8	65.87	-2.33	68.2	50.38	31.6	13.68	29.79	100	179	P	V
5755MHz		5700	83.06	-22.14	105.2	67.44	31.7	13.73	29.81	100	179	P	V
		5718.4	93.21	-17.14	110.35	77.46	31.81	13.75	29.81	100	179	P	V
		5724.8	94.82	-26.92	121.74	79.04	31.85	13.75	29.82	100	179	P	V
	*	5755	121.15	-	-	105.2	32	13.78	29.83	100	179	P	V
	*	5755	112.67	-	-	96.72	32	13.78	29.83	100	179	A	V
		5852.2	67.45	-49.73	117.18	51.4	32.1	13.81	29.86	100	179	P	V
		5857.6	66.13	-43.94	110.07	50.07	32.12	13.81	29.87	100	179	P	V
		5875.8	59.89	-44.72	104.61	43.8	32.15	13.81	29.87	100	179	P	V
		5932.4	55.09	-13.11	68.2	38.91	32.26	13.81	29.89	100	179	P	V
													V
													V

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5648	61.81	-6.39	68.2	46.32	31.6	13.68	29.79	278	192	P	H
		5699	70.21	-34.25	104.46	54.59	31.7	13.73	29.81	278	192	P	H
		5720	77.34	-33.46	110.8	61.58	31.82	13.75	29.81	278	192	P	H
		5720	77.34	-33.46	110.8	61.58	31.82	13.75	29.81	278	192	P	H
	*	5795	119.63	-	-	103.65	32	13.82	29.84	278	192	P	H
	*	5795	109.63	-	-	93.65	32	13.82	29.84	278	192	A	H
		5850	82.44	-39.76	122.2	66.39	32.1	13.81	29.86	278	192	P	H
		5855.2	78.97	-31.77	110.74	62.91	32.11	13.81	29.86	278	192	P	H
		5875.2	70.32	-34.73	105.05	54.23	32.15	13.81	29.87	278	192	P	H
		5946.4	54.11	-14.09	68.2	37.91	32.29	13.81	29.9	278	192	P	H
802.11ax													H
HE40 Full													H
CH 159		5632	64.84	-3.36	68.2	49.31	31.64	13.67	29.78	100	178	P	V
5795MHz		5696.8	73.89	-28.95	102.84	58.27	31.69	13.73	29.8	100	178	P	V
		5719.8	78.34	-32.4	110.74	62.58	31.82	13.75	29.81	100	178	P	V
		5723.6	83.7	-35.31	119.01	67.92	31.84	13.75	29.81	100	178	P	V
	*	5795	121.74	-	-	105.76	32	13.82	29.84	100	178	P	V
	*	5795	114.35	-	-	98.37	32	13.82	29.84	100	178	A	V
		5854.2	84.06	-28.56	112.62	68	32.11	13.81	29.86	100	178	P	V
		5855.8	81.6	-28.98	110.58	65.55	32.11	13.81	29.87	100	178	P	V
		5878.4	72.74	-29.93	102.67	56.64	32.16	13.81	29.87	100	178	P	V
		5931.4	55.83	-12.37	68.2	39.65	32.26	13.81	29.89	100	178	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ax HE40_Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11510	48.69	-25.31	74	44.17	39.88	20.13	55.49	100	0	P	H
		17265	50.65	-17.55	68.2	41.26	40.99	25.17	56.77	100	0	P	H
													H
													H
802.11ax													H
HE40 Full													H
CH 151		11510	48.52	-25.48	74	44	39.88	20.13	55.49	100	0	P	V
5755MHz		17265	50.62	-17.58	68.2	41.23	40.99	25.17	56.77	100	0	P	V
													V
													V
													V
													V
		11590	48.69	-25.31	74	44.21	39.72	20.19	55.43	100	0	P	H
		17385	52.19	-16.01	68.2	42.05	41.86	25.22	56.94	100	0	P	H
													H
													H
802.11ax													H
HE40 Full													H
CH 159		11590	48.93	-25.07	74	44.45	39.72	20.19	55.43	100	0	P	V
5795MHz		17385	51.75	-16.45	68.2	41.61	41.86	25.22	56.94	100	0	P	V
													V
													V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ax HE80_Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5642.8	63.85	-4.35	68.2	48.34	31.61	13.68	29.78	279	195	P	H
		5699.6	77.09	-27.82	104.91	61.47	31.7	13.73	29.81	279	195	P	H
		5713.6	78.85	-30.16	109.01	63.14	31.78	13.74	29.81	279	195	P	H
		5721.8	80.2	-34.7	114.9	64.43	31.83	13.75	29.81	279	195	P	H
	*	5775	114.88	-	-	98.91	32	13.8	29.83	279	195	P	H
	*	5775	105.69	-	-	89.72	32	13.8	29.83	279	195	A	H
		5852.8	75.35	-40.47	115.82	59.29	32.11	13.81	29.86	279	195	P	H
		5859	74.32	-35.36	109.68	58.26	32.12	13.81	29.87	279	195	P	H
		5875.2	67.74	-37.31	105.05	51.65	32.15	13.81	29.87	279	195	P	H
		5942.2	54.73	-13.47	68.2	38.54	32.28	13.81	29.9	279	195	P	H
802.11ax													H
HE80 Full													H
CH 155		5649.4	64.84	-3.36	68.2	49.35	31.6	13.68	29.79	100	174	P	V
5775MHz		5697.4	81.81	-21.47	103.28	66.2	31.69	13.73	29.81	100	174	P	V
		5718	82.29	-27.95	110.24	66.54	31.81	13.75	29.81	100	174	P	V
		5723	83.27	-34.37	117.64	67.49	31.84	13.75	29.81	100	174	P	V
	*	5775	113.02	-	-	97.05	32	13.8	29.83	100	174	P	V
	*	5775	108.53	-	-	92.56	32	13.8	29.83	100	174	A	V
		5851.4	75.61	-43.4	119.01	59.56	32.1	13.81	29.86	100	174	P	V
		5865.8	77.34	-30.43	107.77	61.27	32.13	13.81	29.87	100	174	P	V
		5875	69.69	-35.51	105.2	53.6	32.15	13.81	29.87	100	174	P	V
		5943	55.85	-12.35	68.2	39.65	32.29	13.81	29.9	100	174	P	V
													V
													V

Remark

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

Band 4 5725~5850MHz

WIFI 802.11ax HE80_Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		11550	49.02	-24.98	74	44.52	39.8	20.16	55.46	100	0	P	H
		17325	51.81	-16.39	68.2	42.14	41.32	25.2	56.85	100	0	P	H
													H
													H
802.11ax													H
HE80 Full													H
CH 155		11550	48.84	-25.16	74	44.34	39.8	20.16	55.46	100	0	P	V
5775MHz		17325	51.76	-16.44	68.2	42.09	41.32	25.2	56.85	100	0	P	V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Note symbol

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

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

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

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix D. Radiated Spurious Emission Plots

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

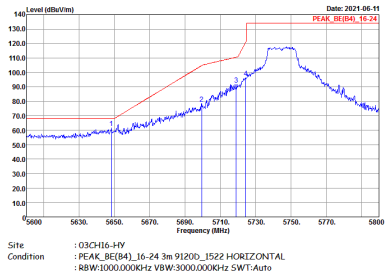
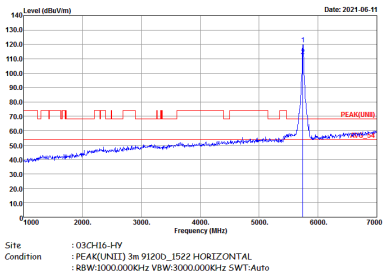
Note symbol

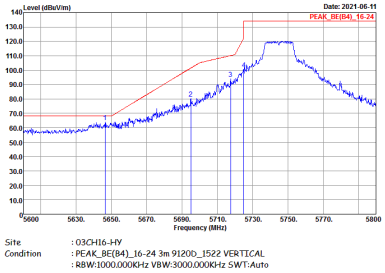
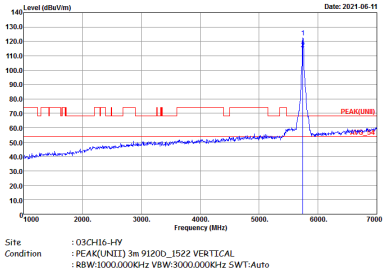
-L	**Low channel location**
-R	**High channel location**

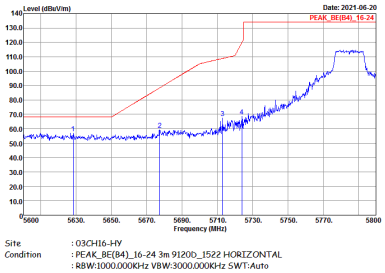
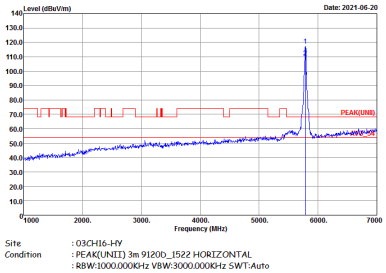
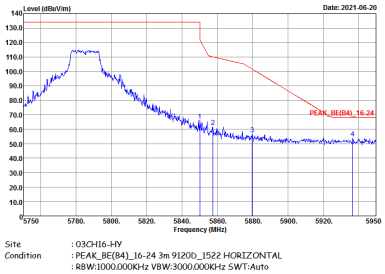
<CDD Mode>

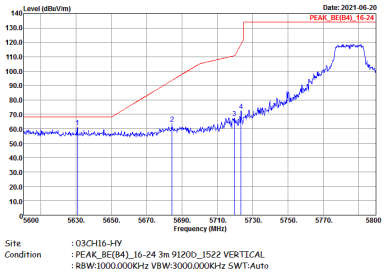
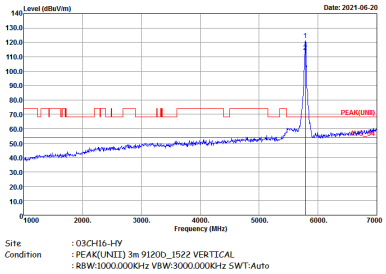
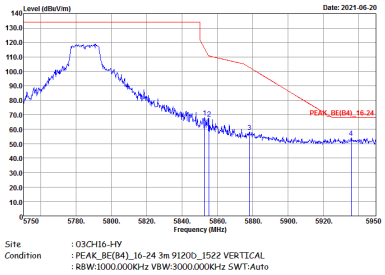
Band 4 - 5725~5850MHz

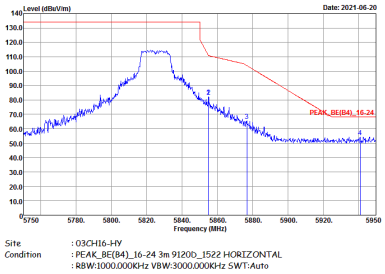
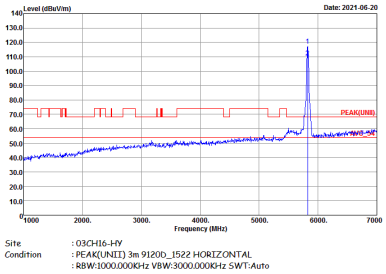
WIFI 802.11a (Band Edge @ 3m)

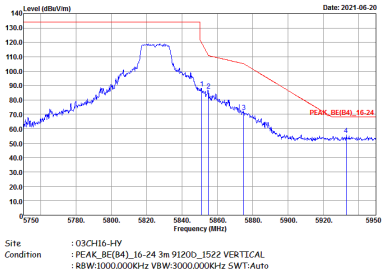
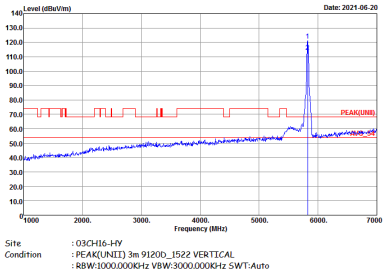
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

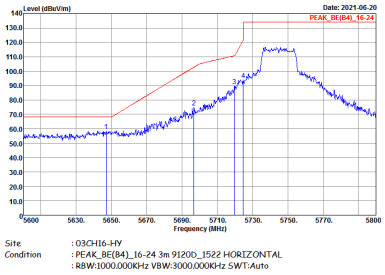
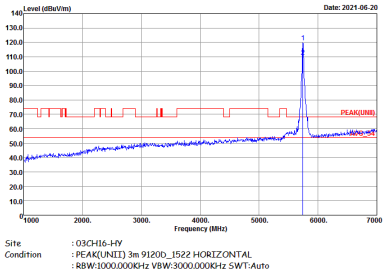
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

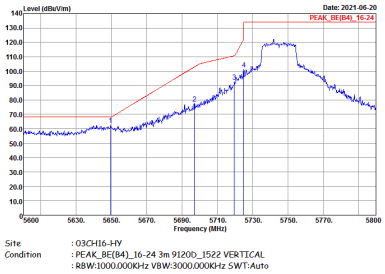
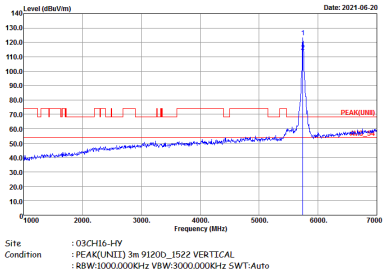
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak		

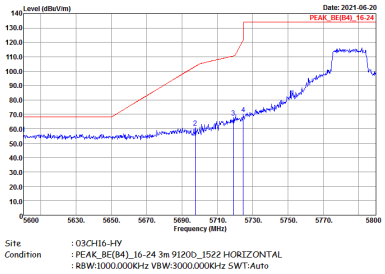
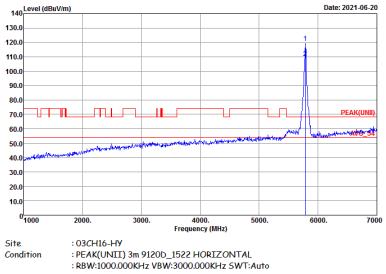
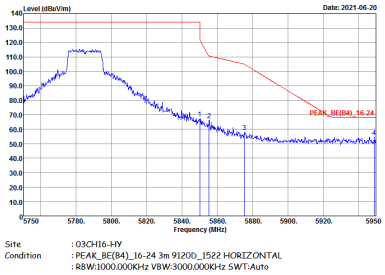
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak		

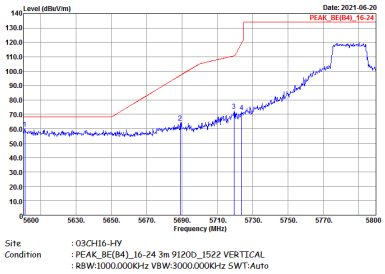
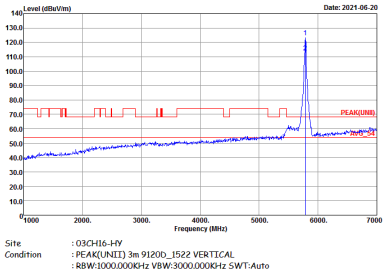
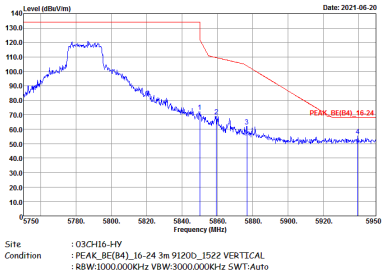
Band 4 5725~5850MHz

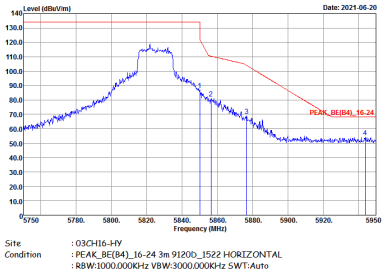
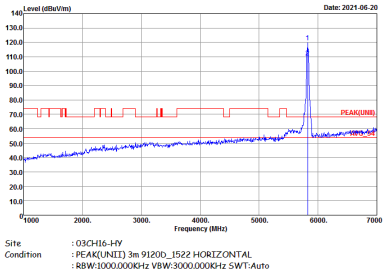
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

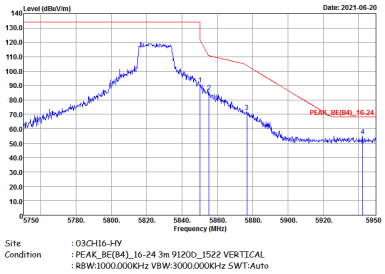
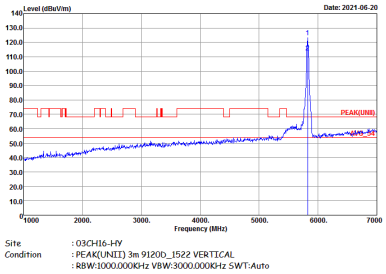
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

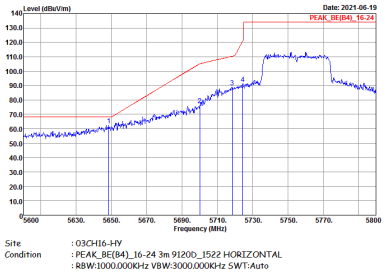
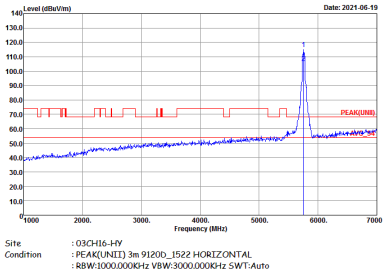
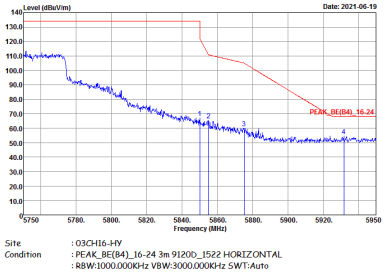
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

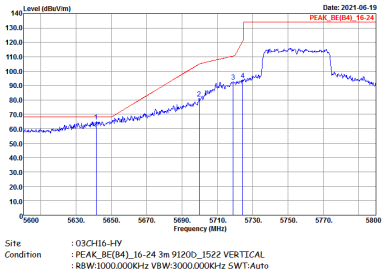
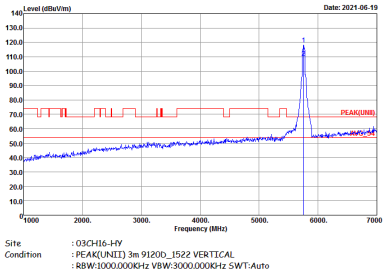
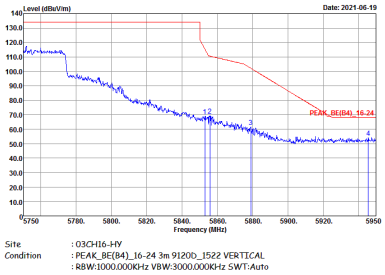
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1	Horizontal	Fundamental
Peak		

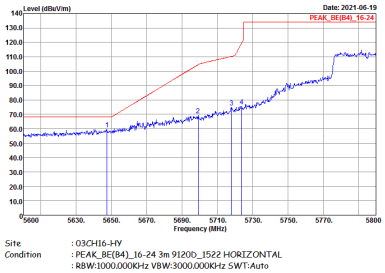
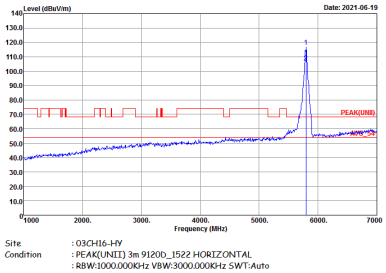
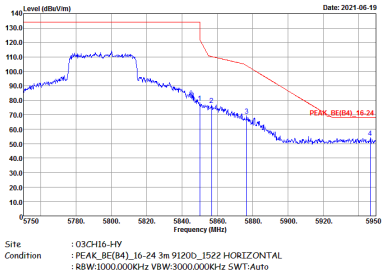
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1	Vertical	Fundamental
Peak		

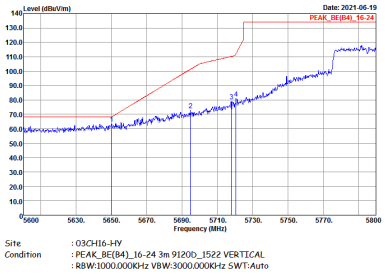
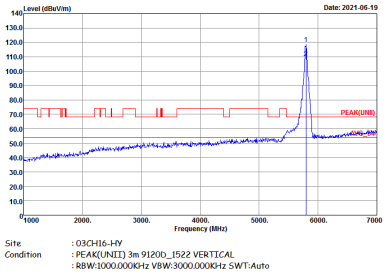
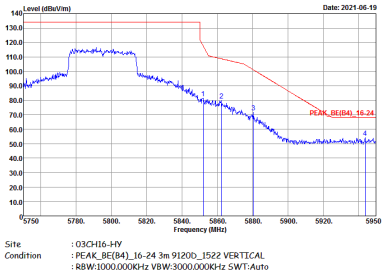
Band 4 5725~5850MHz

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

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

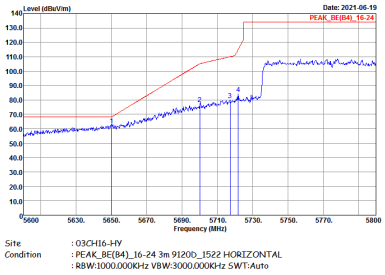
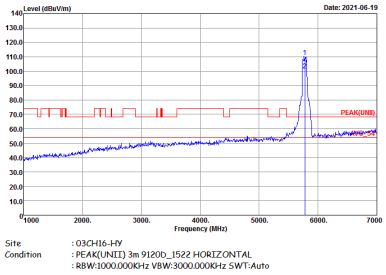
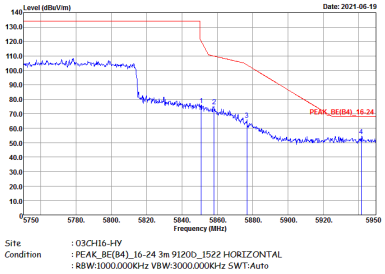
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

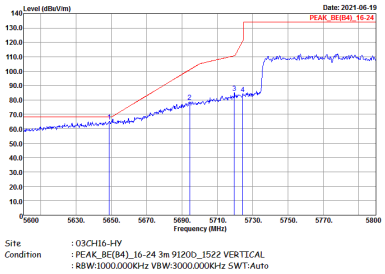
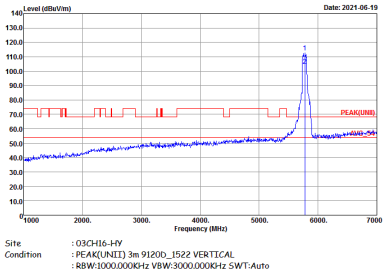
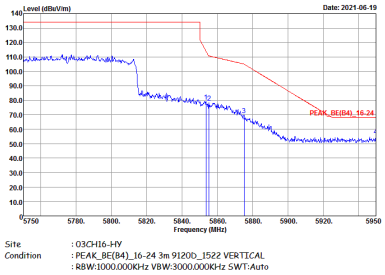
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 5725~5850MHz

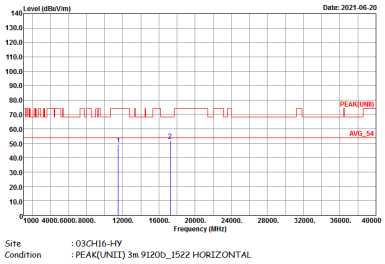
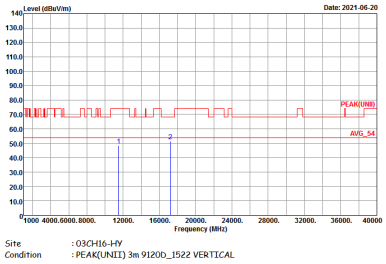
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

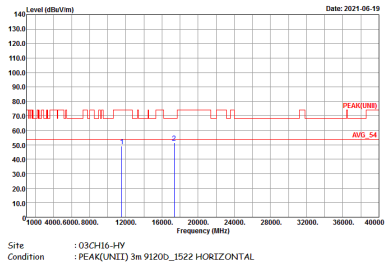
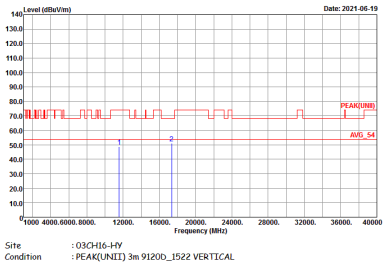
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1	Horizontal	Fundamental
Peak		
Peak		Left blank

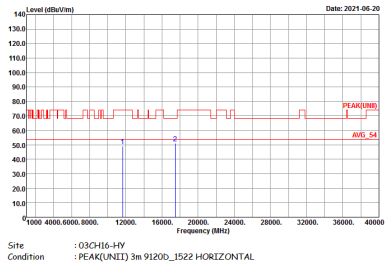
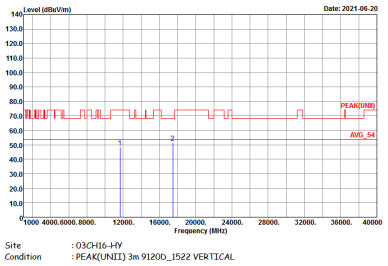
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

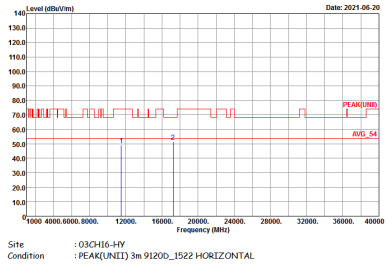
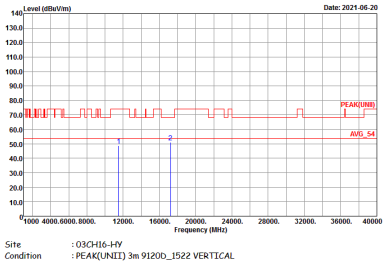
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

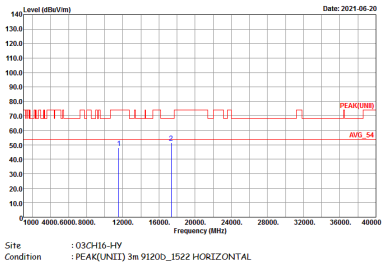
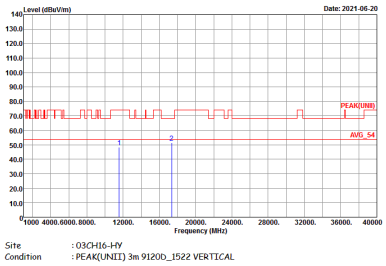
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.		

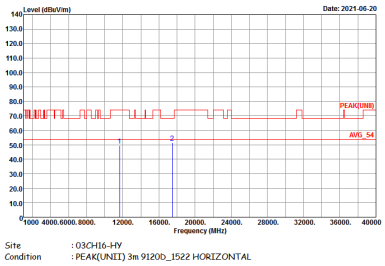
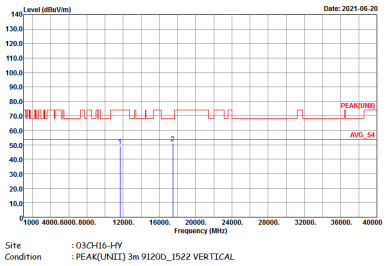
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

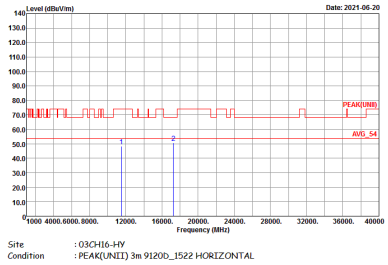
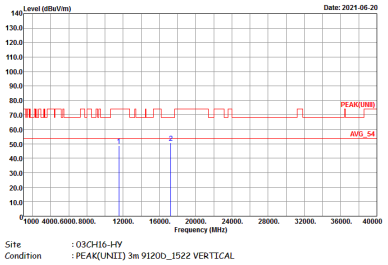
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1	Horizontal	Vertical
Peak Avg.		

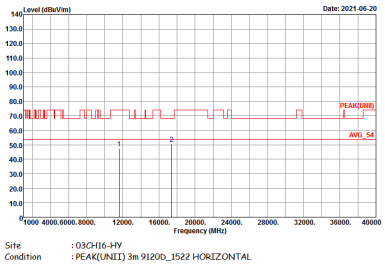
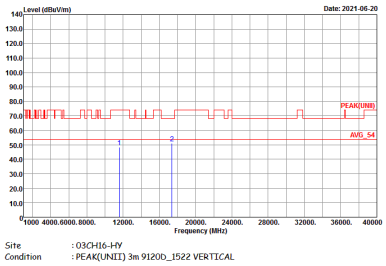
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

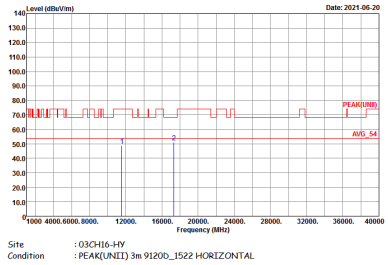
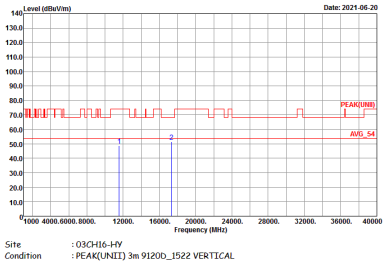
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1	Horizontal	Vertical
Peak Avg.		

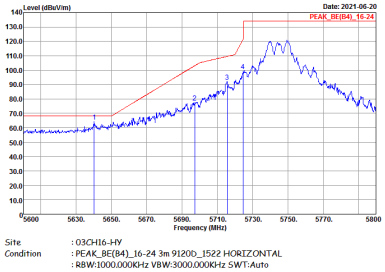
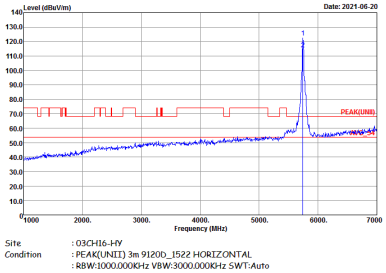
Band 4 5725~5850MHz

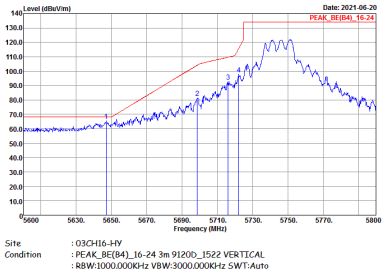
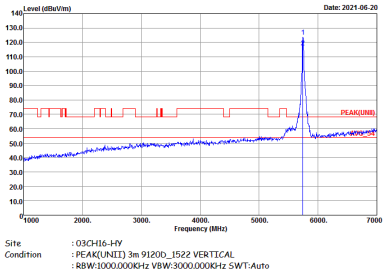
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

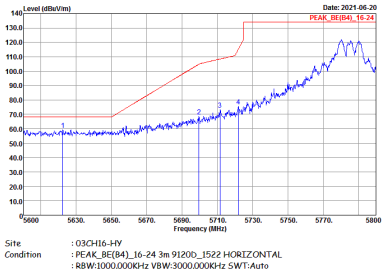
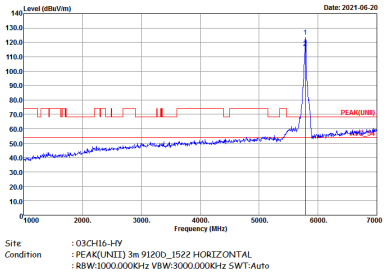
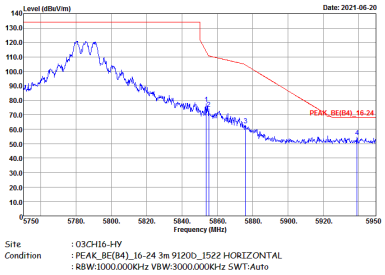
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1	Horizontal	Vertical
Peak Avg.		

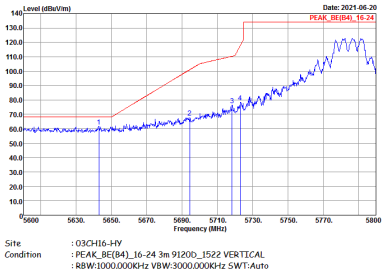
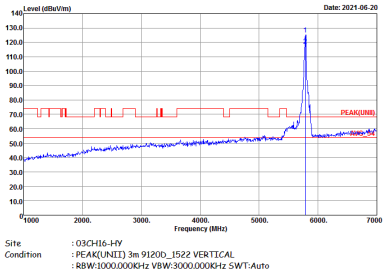
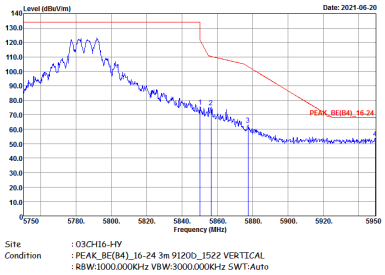
Band 4 - 5725~5850MHz

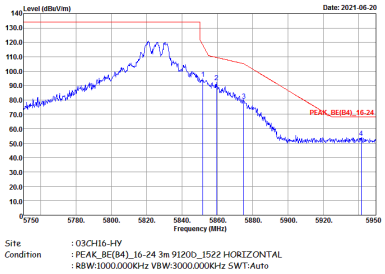
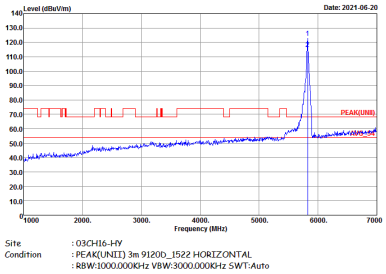
WIFI 802.11a (Band Edge @ 3m)

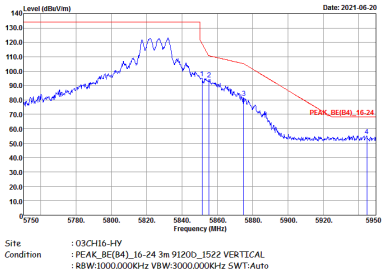
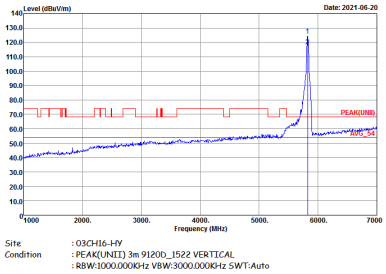
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

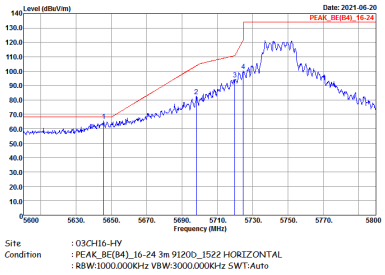
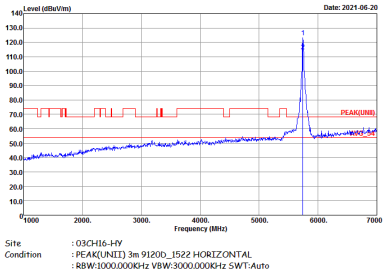
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

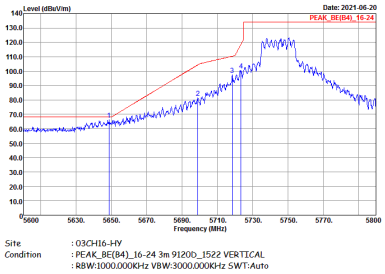
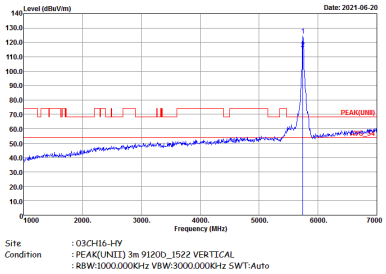
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak		

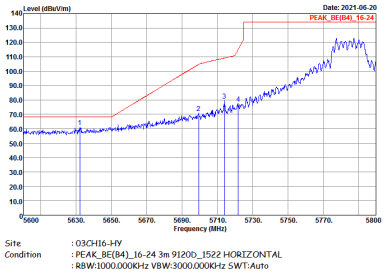
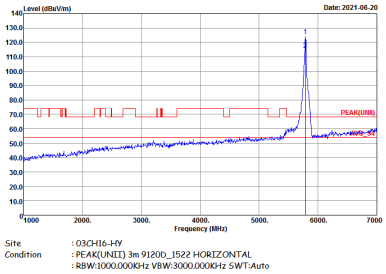
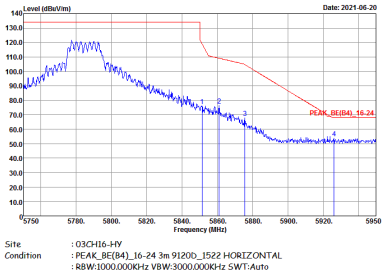
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Vertical	Fundamental
Peak		

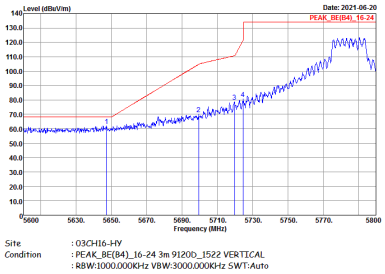
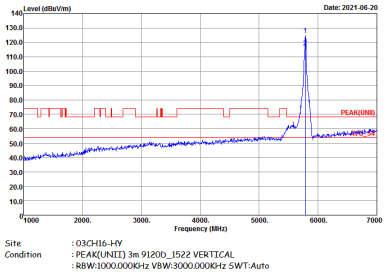
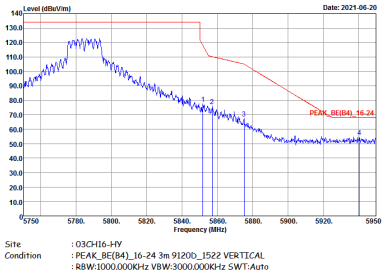
Band 4 5725~5850MHz

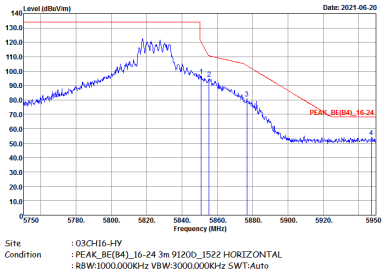
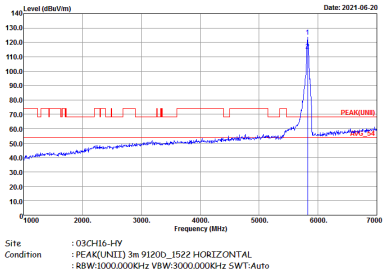
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

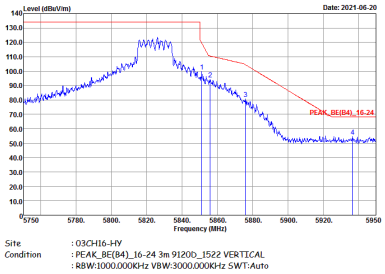
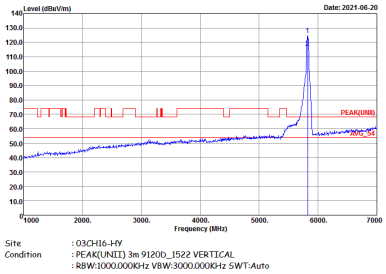
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

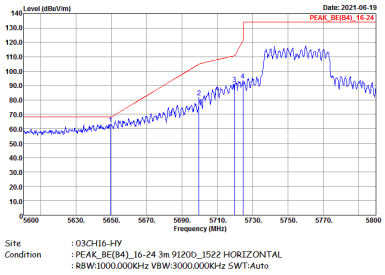
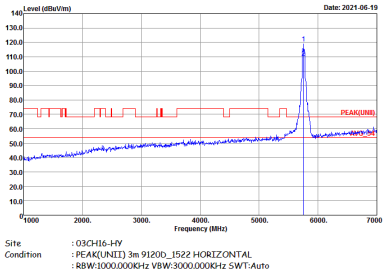
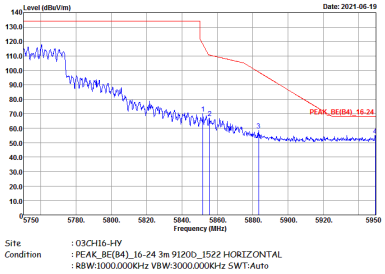
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

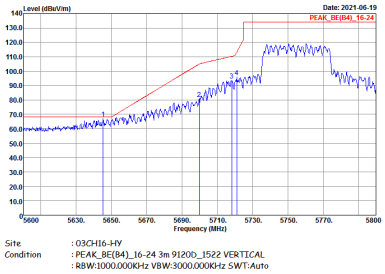
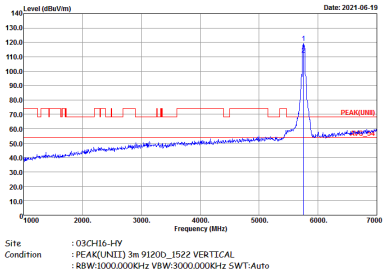
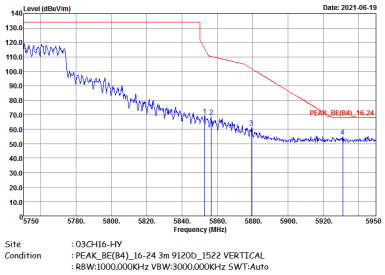
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak		

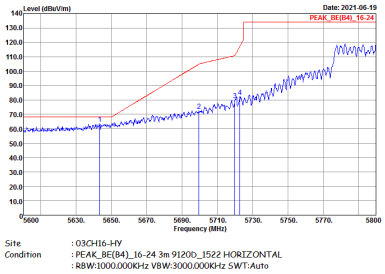
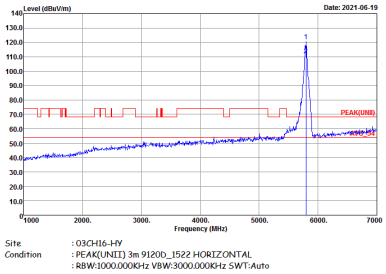
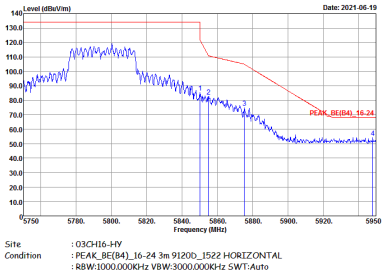
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Vertical	Fundamental
Peak		

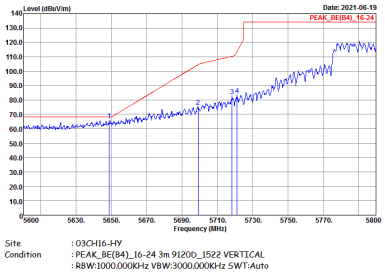
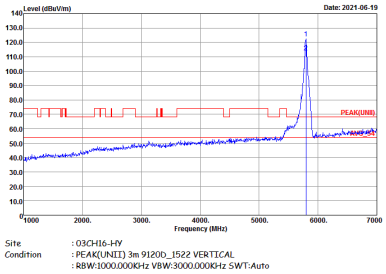
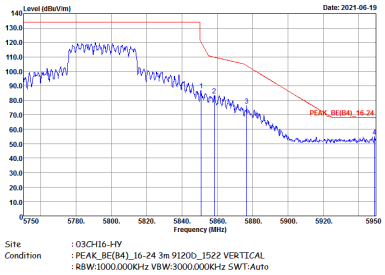
Band 4 5725~5850MHz

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

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

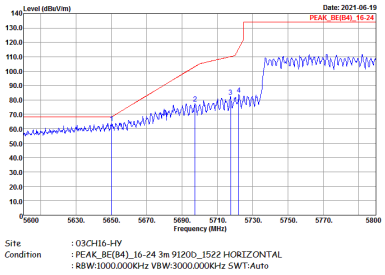
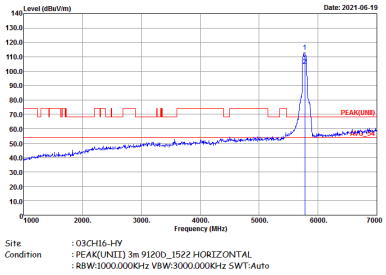
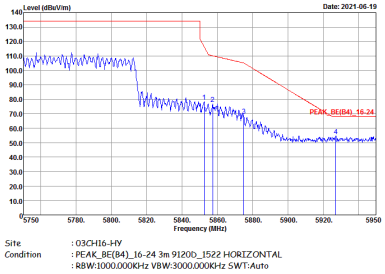
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

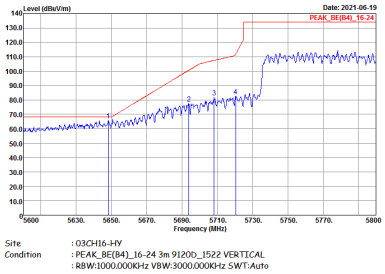
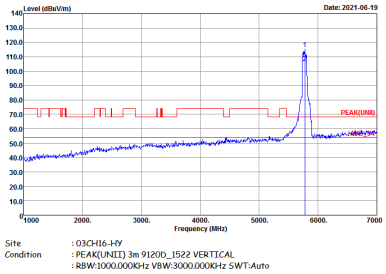
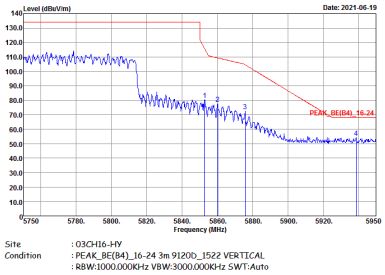
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 5725~5850MHz

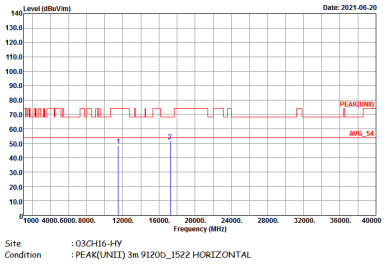
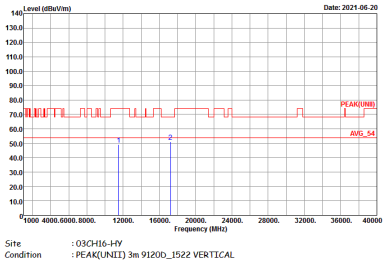
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

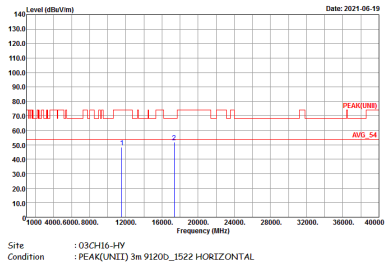
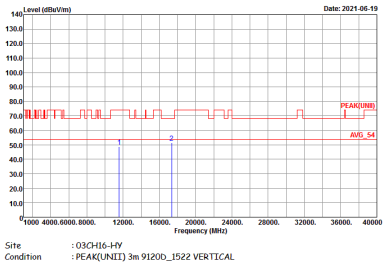
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

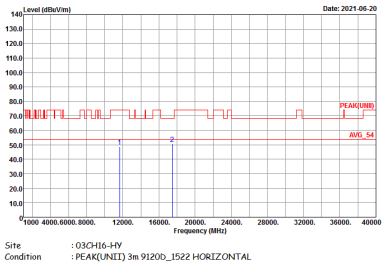
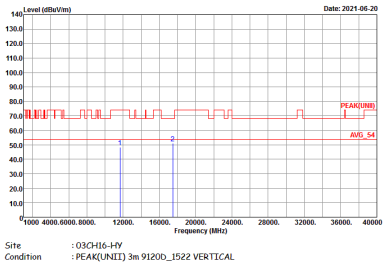
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

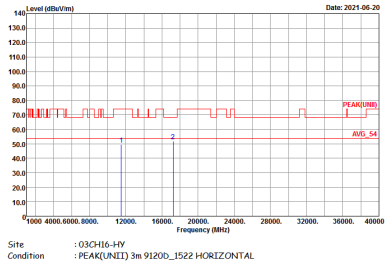
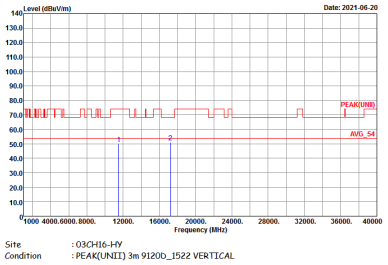
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

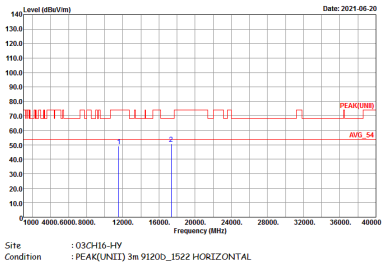
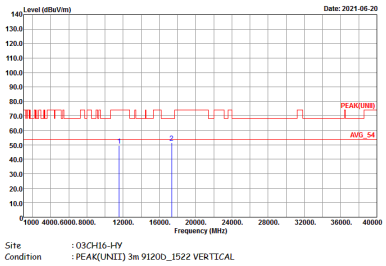
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.		

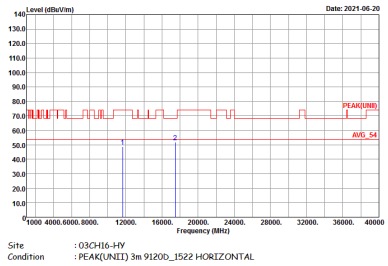
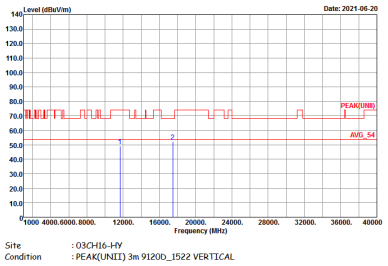
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

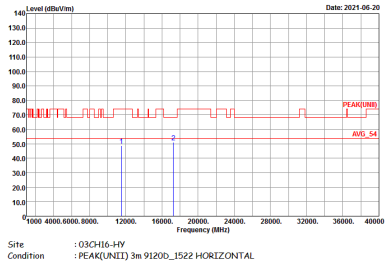
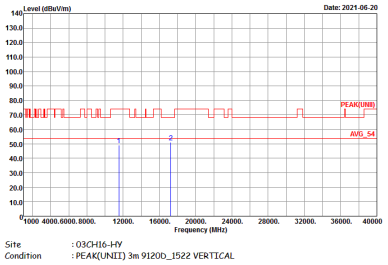
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

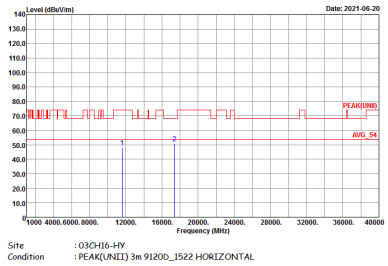
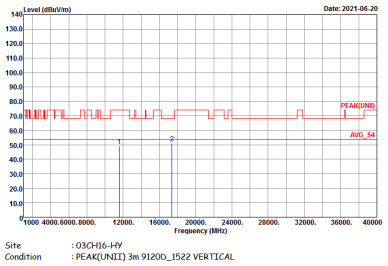
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

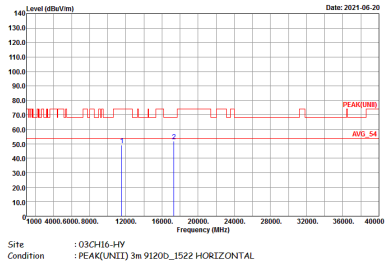
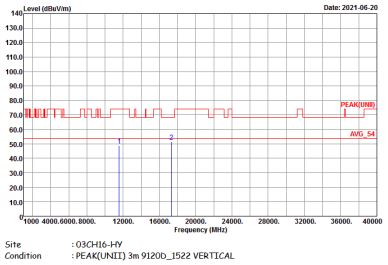
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.		

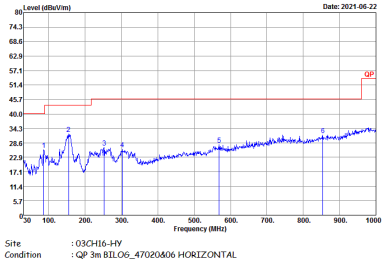
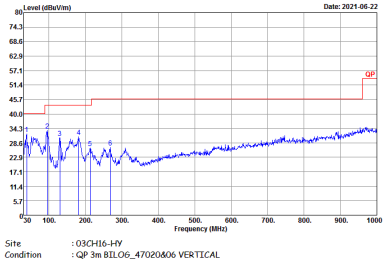
Band 4 5725~5850MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

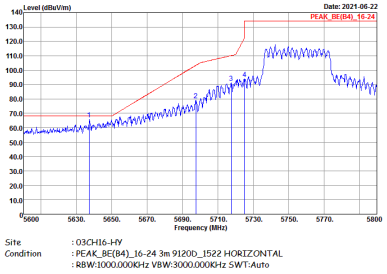
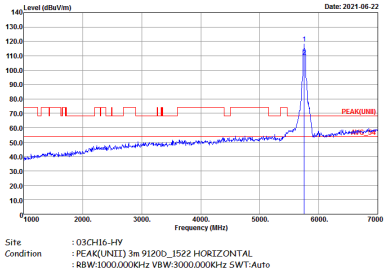
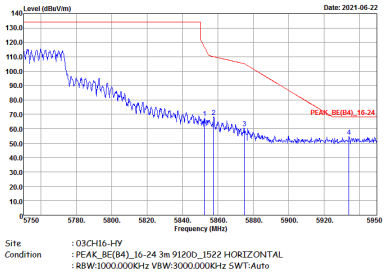
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.		

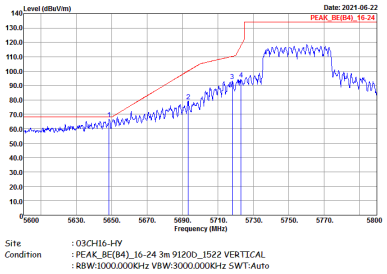
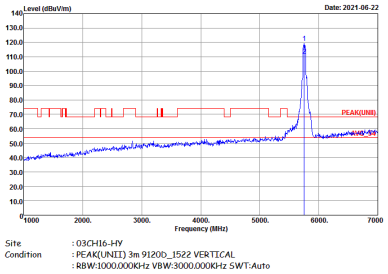
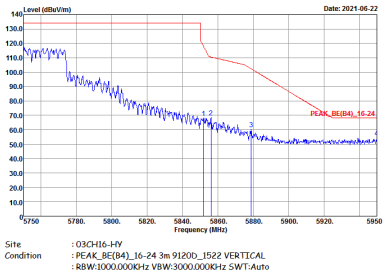
Emission below 1GHz

5GHz WIFI 802.11ax HE40 Full (LF @ 3m)

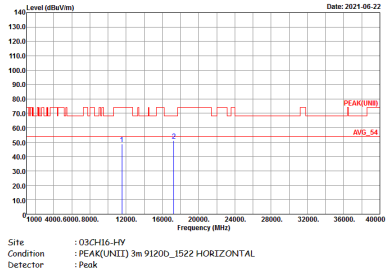
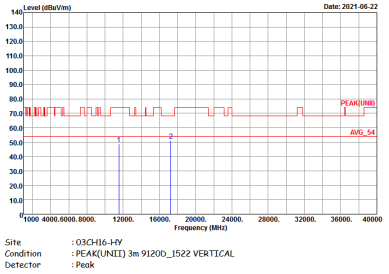
WIFI	5GHz WIFI	
ANT	802.11ax HE40 Full LF	
1+2	Horizontal	Vertical
QP / Peak		

Band 4 5725~5850MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)
With RJ-45

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

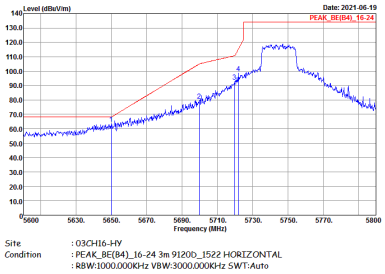
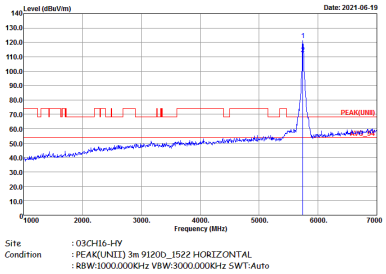
Band 4 5725~5850MHz
WIFI 802.11ax HE40 Full (Harmonic @ 3m)
With RJ45

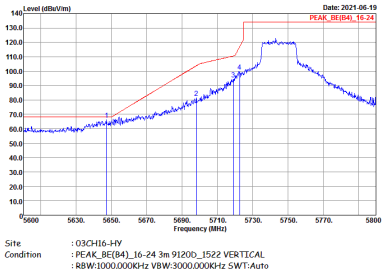
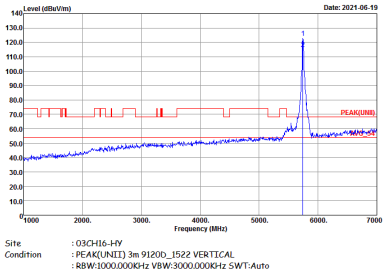
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.		

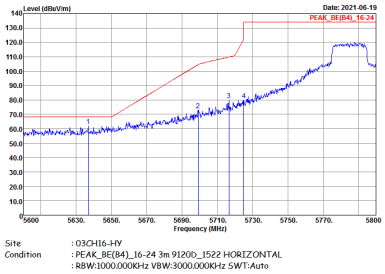
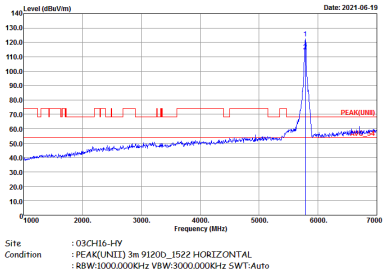
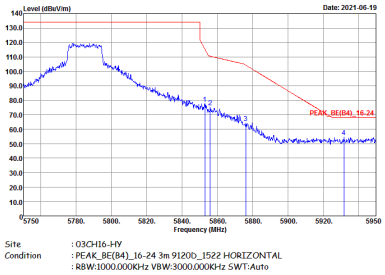
<TXBF Mode>

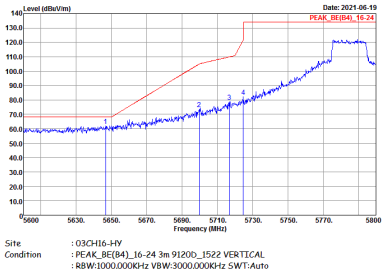
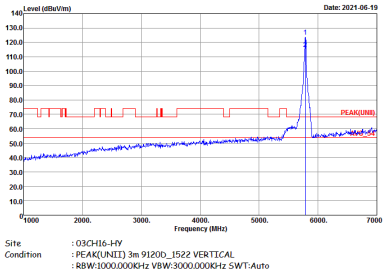
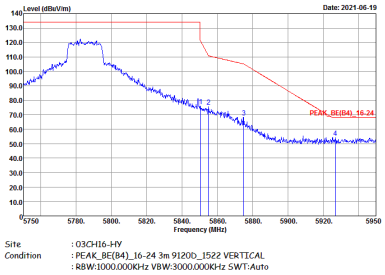
Band 4 - 5725~5850MHz

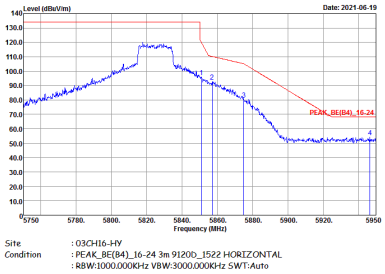
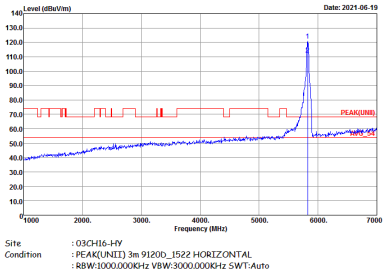
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

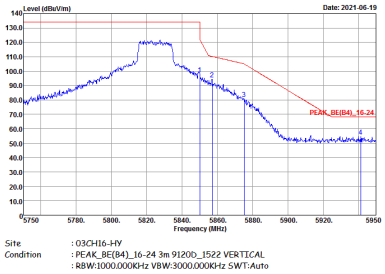
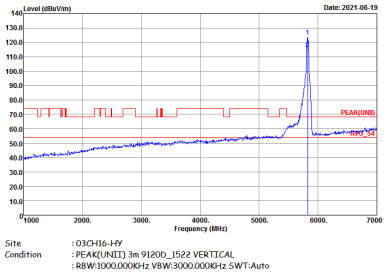
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Vertical	Fundamental
Peak		

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

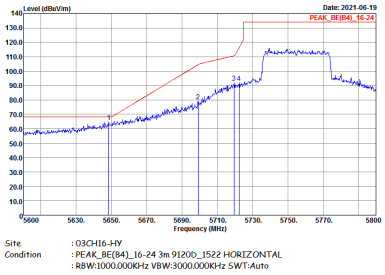
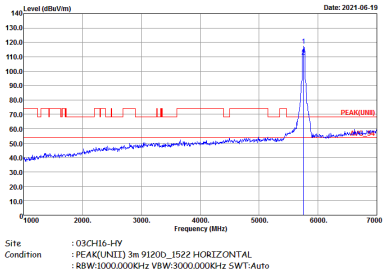
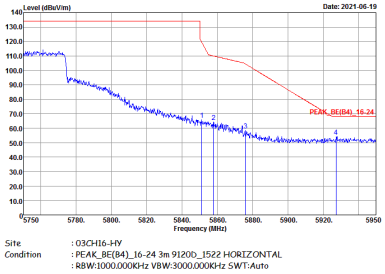
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

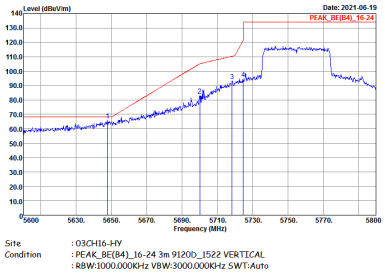
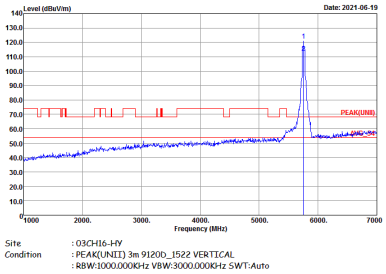
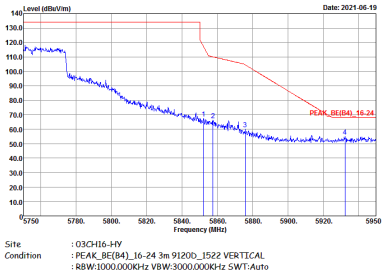
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HY Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

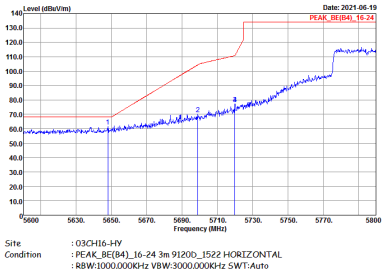
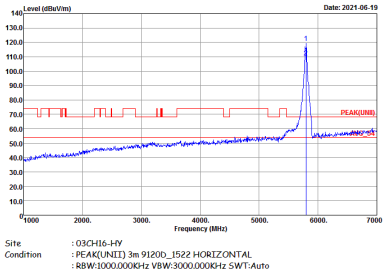
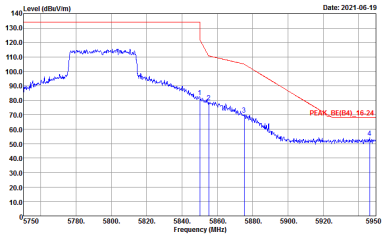
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Vertical	Fundamental
Peak		

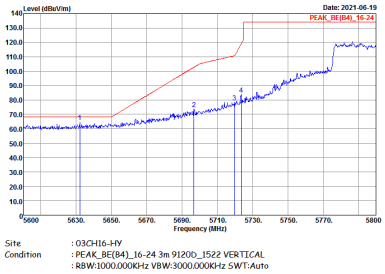
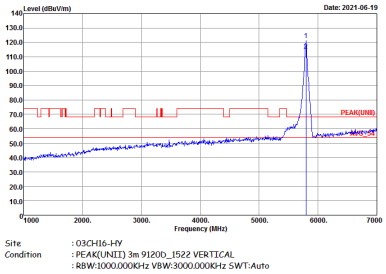
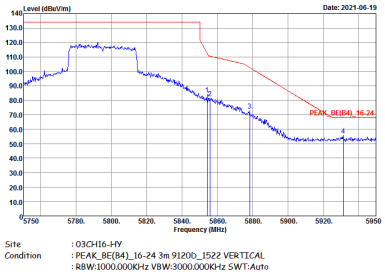
Band 4 5725~5850MHz

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

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

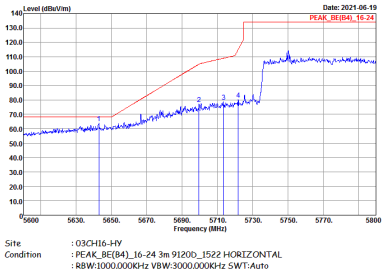
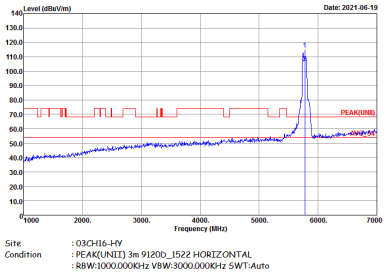
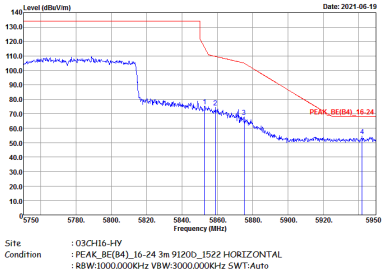
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

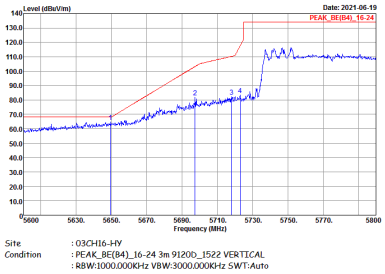
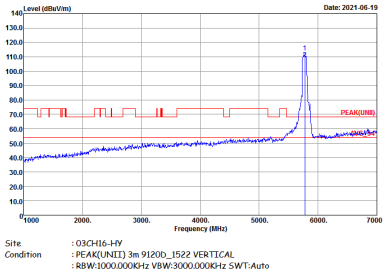
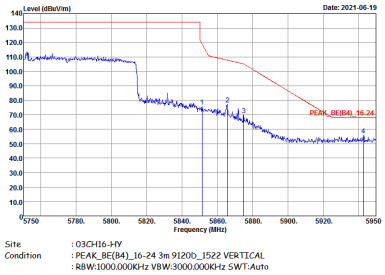
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH16-HV Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH16-HV Condition : PEAK(UNII) 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Peak	 Site : 03CH16-HV Condition : PEAK_BE(B4)_16-24 3m 9120D_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 5725~5850MHz

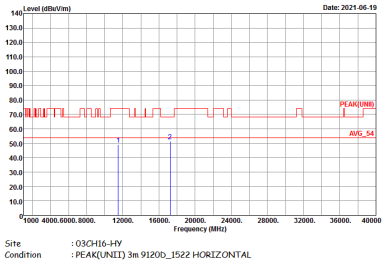
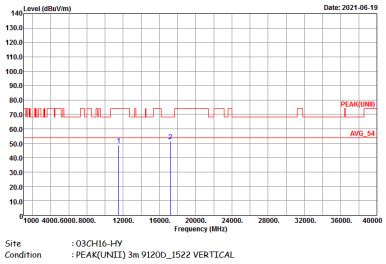
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

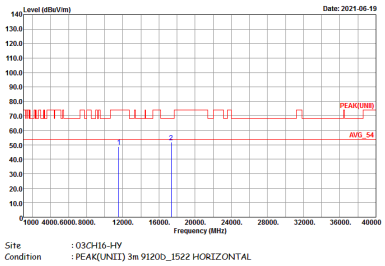
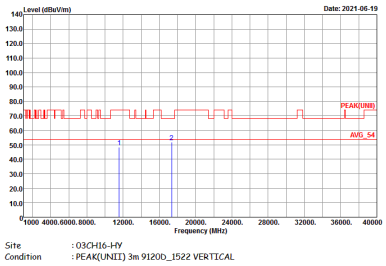
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

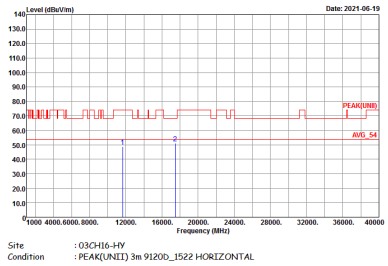
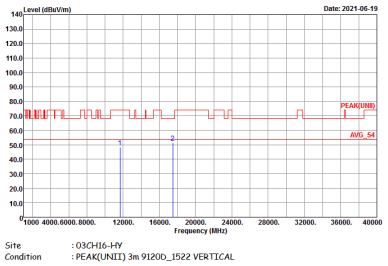
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Vertical	Fundamental
Peak		
Peak		Left blank

Band 4 - 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

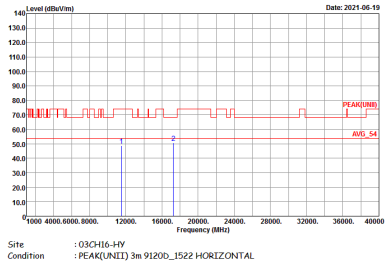
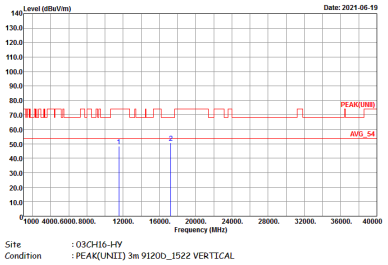
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Horizontal	Vertical
Peak Avg.		

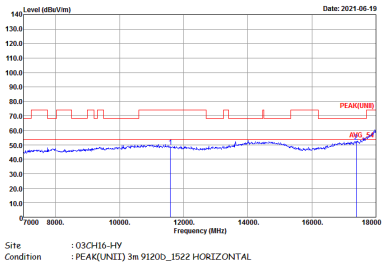
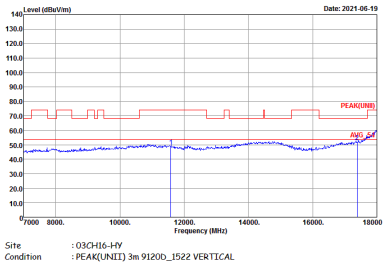
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

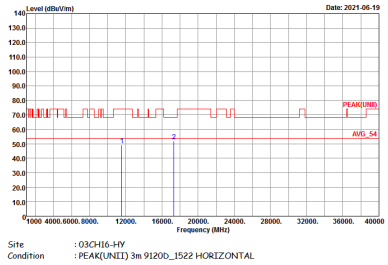
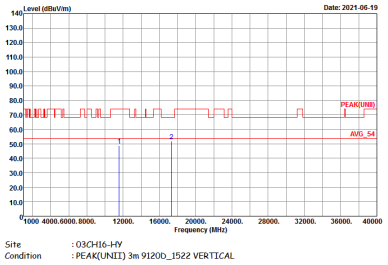
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Vertical
Peak Avg.		

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Band 4 5725~5850MHz

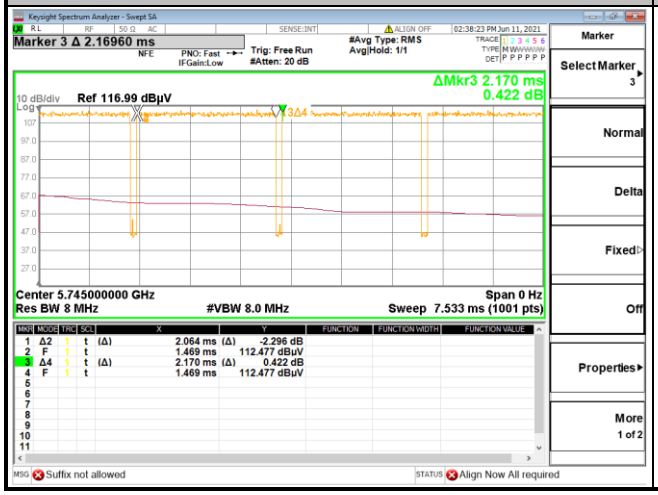
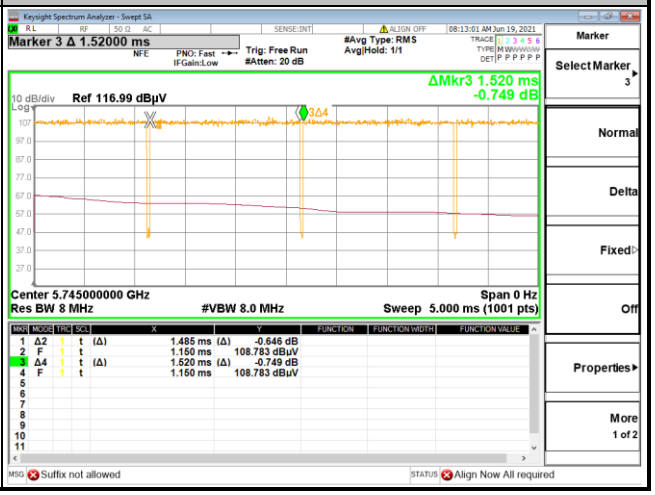
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

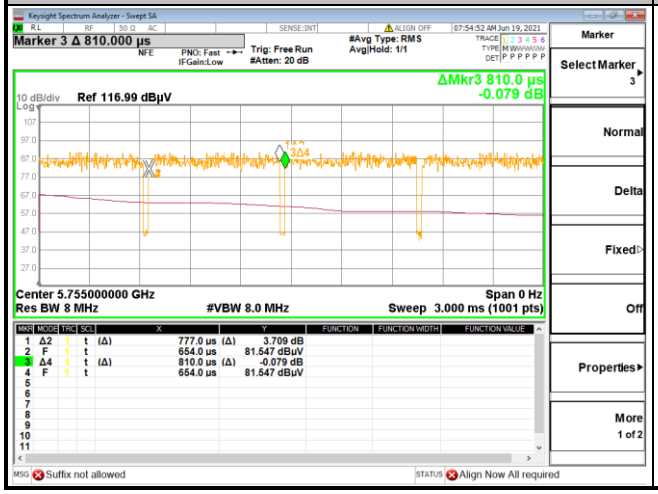
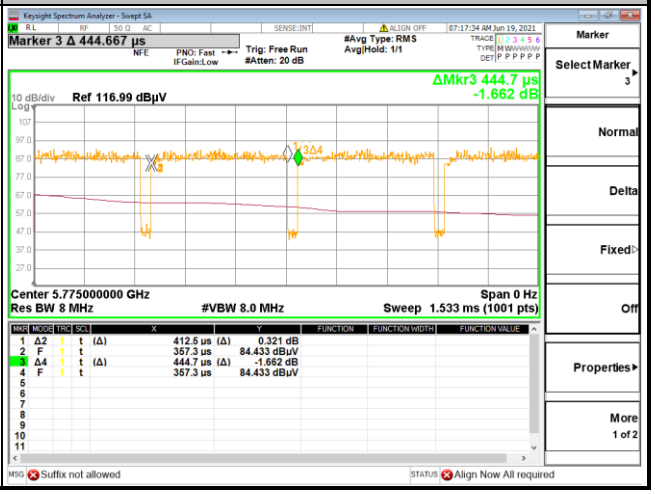
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.		

Appendix E. Duty Cycle Plots

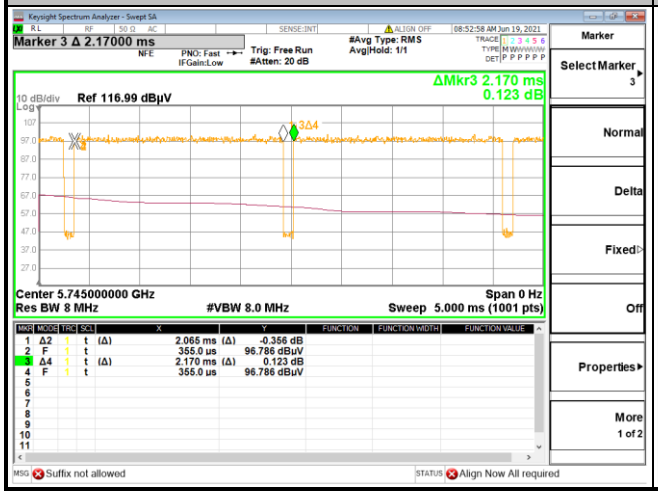
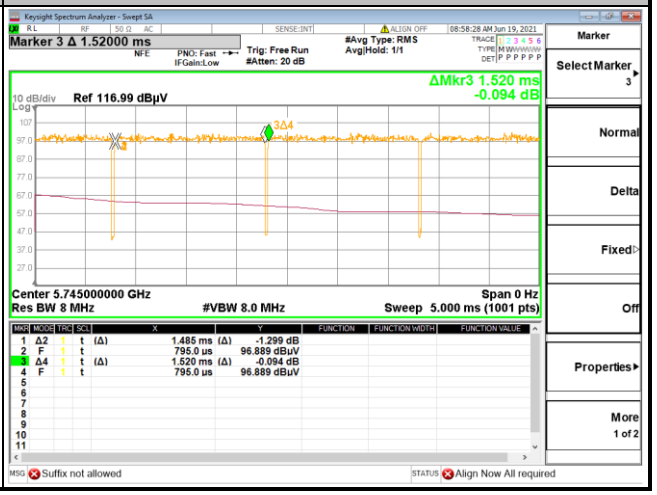
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1	802.11a	95.12	2064	0.48	1kHz	0.22
1+2	802.11a	95.16	2065	0.48	1kHz	0.22
1	5GHz 802.11ax HE20 Full RU	97.70	1485	0.67	1kHz	0.10
1+2	5GHz 802.11ax HE20 Full RU	97.70	1485	0.67	1kHz	0.10
1	5GHz 802.11ax HE40 Full RU	95.93	777	1.29	3kHz	0.18
1+2	5GHz 802.11ax HE40 Full RU	95.93	777	1.29	3kHz	0.18
1	5GHz 802.11ax HE80 Full RU	92.76	412.5	2.42	3kHz	0.33
1+2	5GHz 802.11ax HE80 484 RU	92.76	412.5	2.42	3kHz	0.33

<Ant. 1>

802.11a	802.11ax HE20 Full RU
	

802.11ax HE40 Full RU	802.11ax HE80 Full RU
	

MIMO <Ant. 1+2>

802.11a	802.11ax HE20 Full RU
	

802.11ax HE40 Full RU	802.11ax HE80 Full RU