



FCC RADIO TEST REPORT

FCC ID : 2AEM4-401217
Equipment : eero PoE 6
Brand Name : eero
Model Name : T010001
Applicant : eero LLC
660 3rd Street,4th Floor,San
Francisco,CA 94107-(415)738-7972
Manufacturer : LUXSHARE-ICT(VIETNAM) LIMITED
Lot E, Quang Chau industry park,
Quang Chau village,Viet Yen
district,Bac Giang province,Viet Nam
Standard : FCC Part 15 Subpart E §15.407

The product was received on May 17, 2022 and testing was performed from May 25, 2022 to Jun. 30, 2022. 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..... 3

Summary of Test Result..... 4

1 General Description 5

 1.1 Product Feature of Equipment Under Test..... 5

 1.2 Modification of EUT 5

 1.3 Testing Location 6

 1.4 Applicable Standards..... 6

2 Test Configuration of Equipment Under Test 7

 2.1 Carrier Frequency and Channel 7

 2.2 Test Mode 8

 2.3 Connection Diagram of Test System 9

 2.4 Support Unit used in test configuration and system 9

 2.5 EUT Operation Test Setup 9

 2.6 Measurement Results Explanation Example..... 10

3 Test Result 11

 3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement 11

 3.2 Maximum E.I.R.P Output Power Measurement 17

 3.3 Power Spectral Density Measurement 18

 3.4 Unwanted Emissions Measurement 25

 3.5 AC Conducted Emission Measurement..... 30

 3.6 Antenna Requirements 32

4 List of Measuring Equipment..... 34

5 Uncertainty of Evaluation 36

Appendix A. Conducted Test Results

Appendix B. AC Conducted Emission Test Result

Appendix C. Radiated Spurious Emission

Appendix D. Radiated Spurious Emission Plots

Appendix E. Duty Cycle Plots

Appendix F. Setup Photographs



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(e)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum E.I.R.P Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	1.87 dB under the limit at 5649.855 MHz
3.5	15.207	AC Conducted Emission	Pass	2.02 dB under the limit at 0.393 MHz
3.6	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Steve Chen

Report Producer: Lucy Wu



1 General Description

1.1 Product Feature of Equipment Under Test

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

Product Feature	
Antenna Type	WLAN: <Ant. 1>: Stamping PIFA <Ant. 2>: Stamping PIFA Bluetooth - LE: FPC Dipole Zigbee: FPC Dipole

Antenna information		
5850 MHz ~ 5895 MHz	Peak Gain (dBi)	Ant. 1: 5.3 Ant. 2: 4.63

Remark: The EUT's information above is 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, 03CH07-HY

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

FCC designation No.: TW1190

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.
- ♦ FCC KDB 291074 D02 EMC Measurement v01 (Draft)
- ♦ ANSI C63.10-2013

Remark:

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



2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

Frequency Band	Bandwidth	Channel	Frequency (MHz)	Note
5850-5895 MHz (U-NII-4)	20 MHz	169	5845	Straddle
		173	5865	
		177	5885	
	40 MHz	167	5835	Straddle
		175	5875	
	80 MHz	171	5855	Straddle
160 MHz	163	5815	Straddle	

Note:

1. The channel noted with "straddle" spans 5.725-5.850 GHz and 5.850-5.895 GHz.
2. The device doesn't support 802.11ax partial RU.



2.2 Test Mode

The CDD mode is chosen as worst case configuration for all test cases due to higher power than SISO mode.

The 802.11n/ac mode has no higher power and PSD than 802.11ax mode, thus the 802.11ax mode is chosen as main test configuration, and the 802.11n/ac mode is verified the power.

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

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

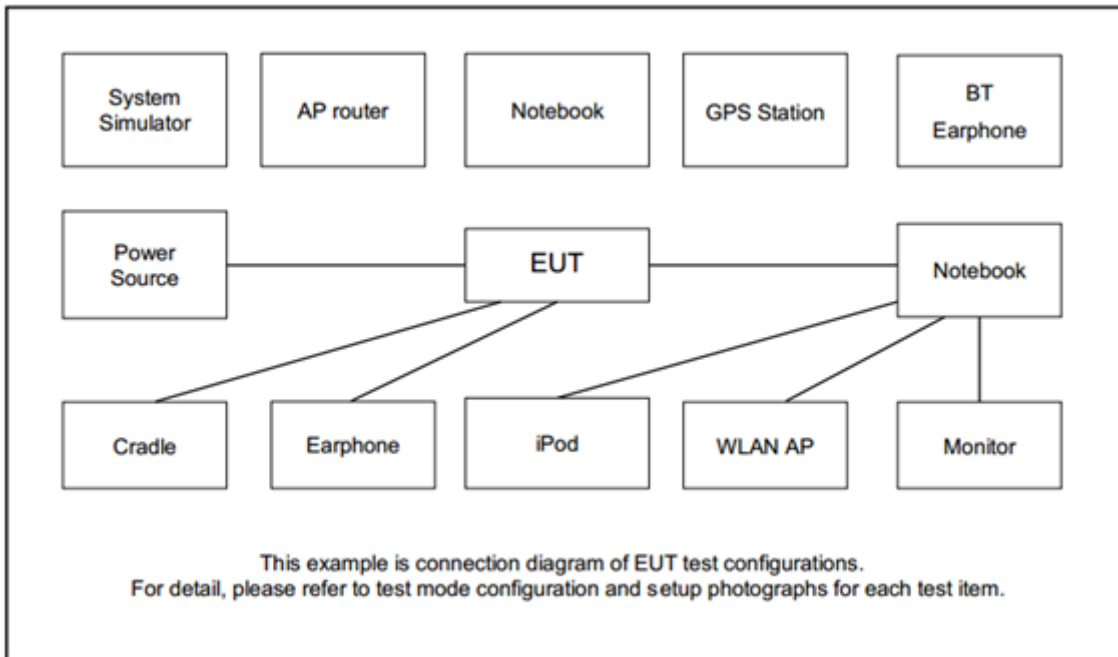
Remark: The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

Test Cases	
AC Conducted Emission	Mode 1 : WLAN (5GHz) Link + LAN 1 Link + LAN 2 Link + RJ45 Cable (Charging from POE Adapter)

Ch. #	RF test channel of UNII-4 and UNII-3 &-4 span channels				
	802.11a	802.11ax HE20	802.11ax HE40	802.11ax HE80	802.11ax HE160
L Low	169	169	167	-	-
M Middle	173	173	-	171	163
H High	177	177	175	-	-

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

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	POE Adapter	MITS	POE-BTI-7556NT8	N/A	N/A	N/A
2.	Smart Things Button	N/A	IM6001-BTP01	N/A	N/A	N/A
3.	RJ45 cable	N/A	N/A	N/A	N/A	N/A
4.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Notebook	Dell	E3340	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility “QSPR V5.0-00188” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.



2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

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

3 Test Result

3.1 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

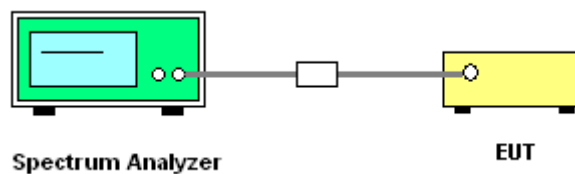
See list of measuring equipment of this test report.

3.1.3 Test Procedures

The testing follows FCC KDB 291074 D02 EMC Measurement v01 (Draft) Section 2.11 Minimum Emission bandwidth

1. Set RBW = 100 kHz.
2. Set the VBW $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold
5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
6. Measure and record the results in the test report.

3.1.4 Test Setup



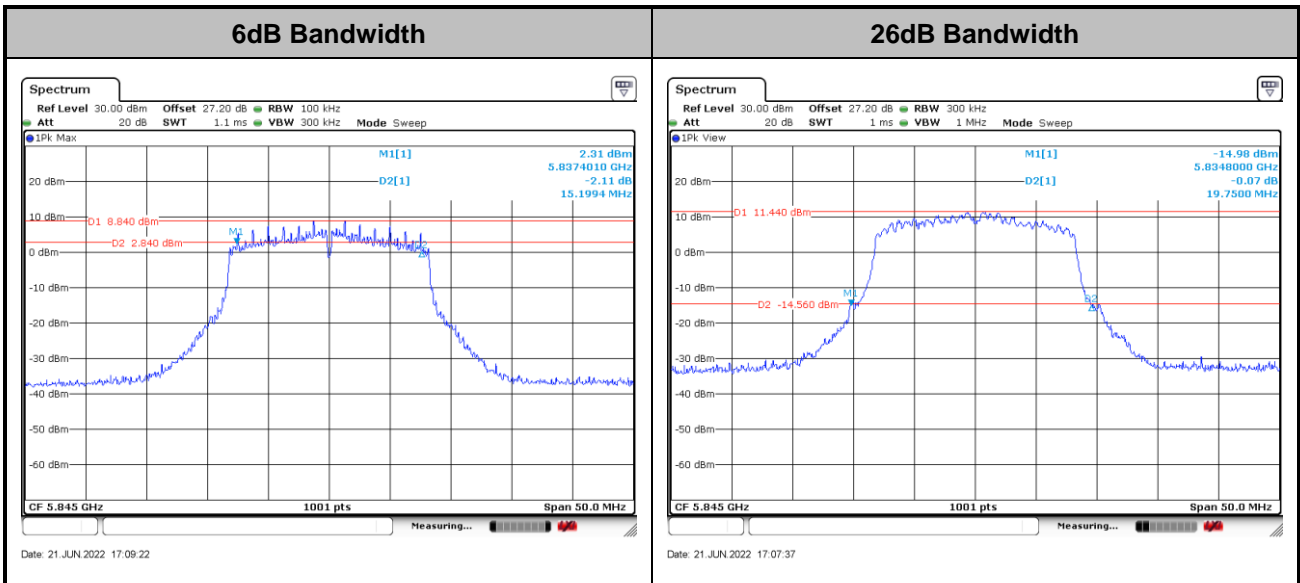
3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.

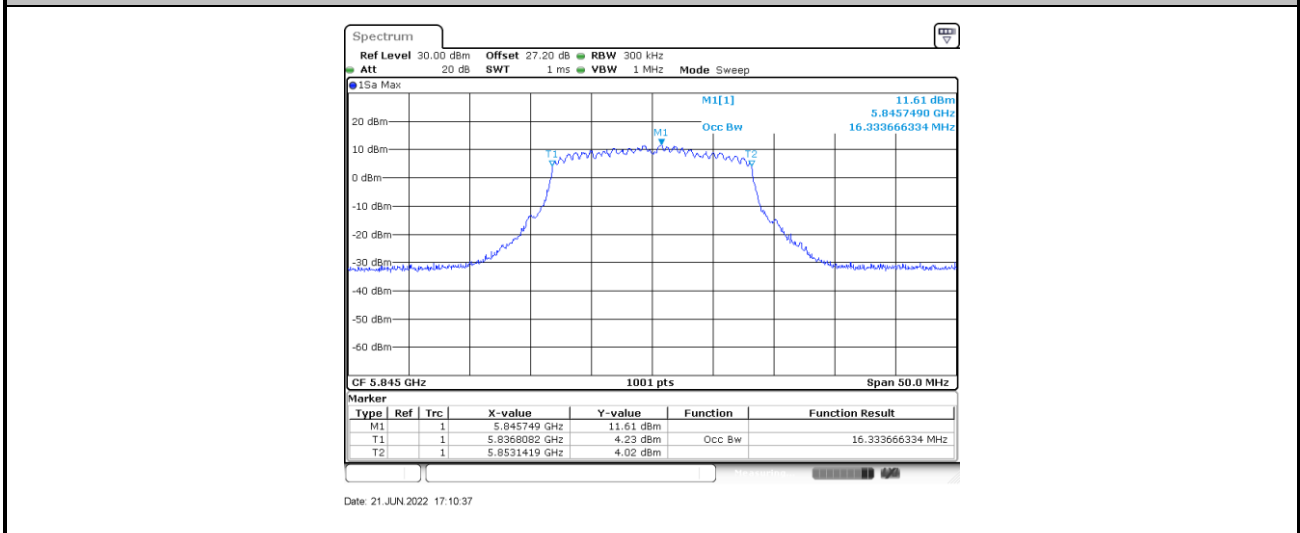


MIMO <Ant. 1+2>

<802.11a Mode>



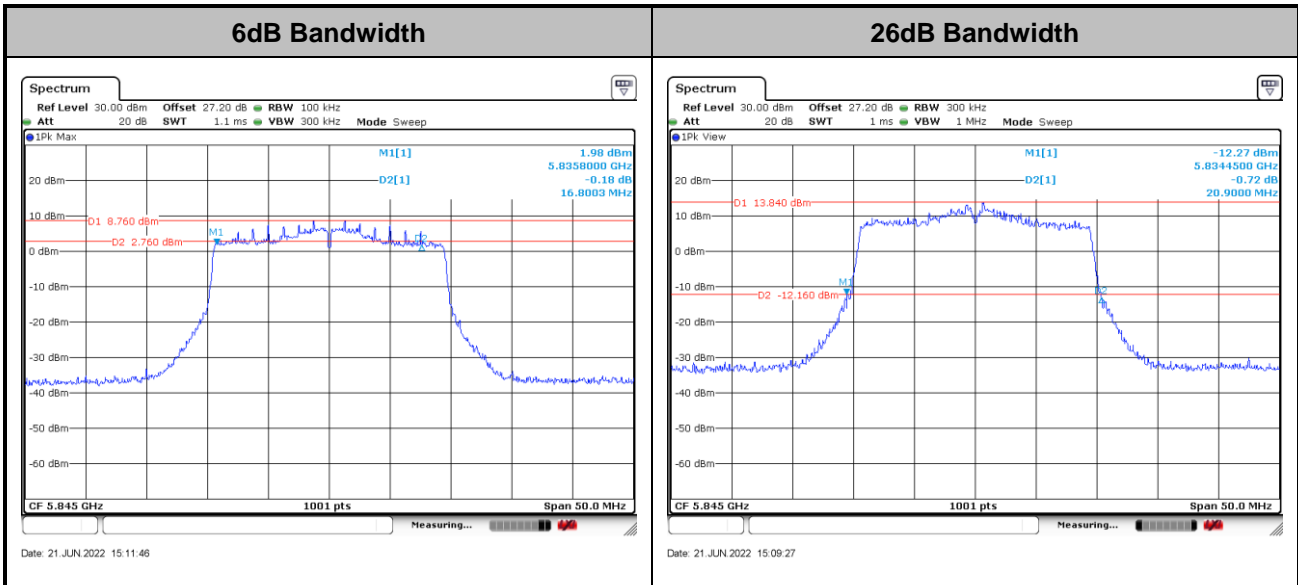
Occupied Bandwidth



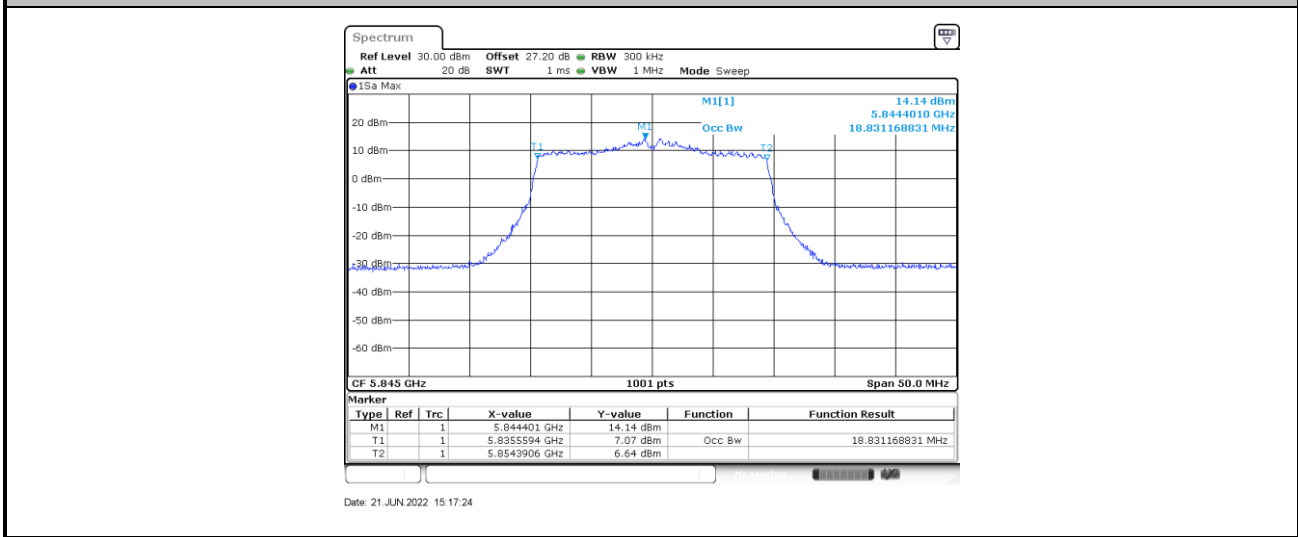
Note: The occupied channel bandwidth is maintained within the band of operation.



<802.11ax HE20 Mode>



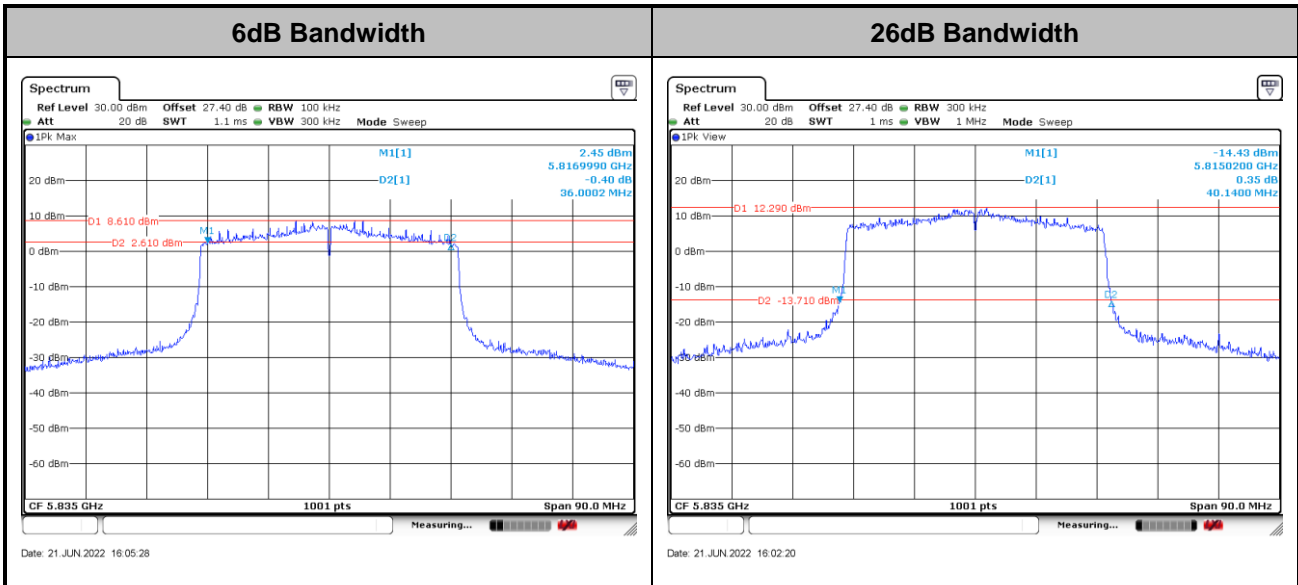
Occupied Bandwidth



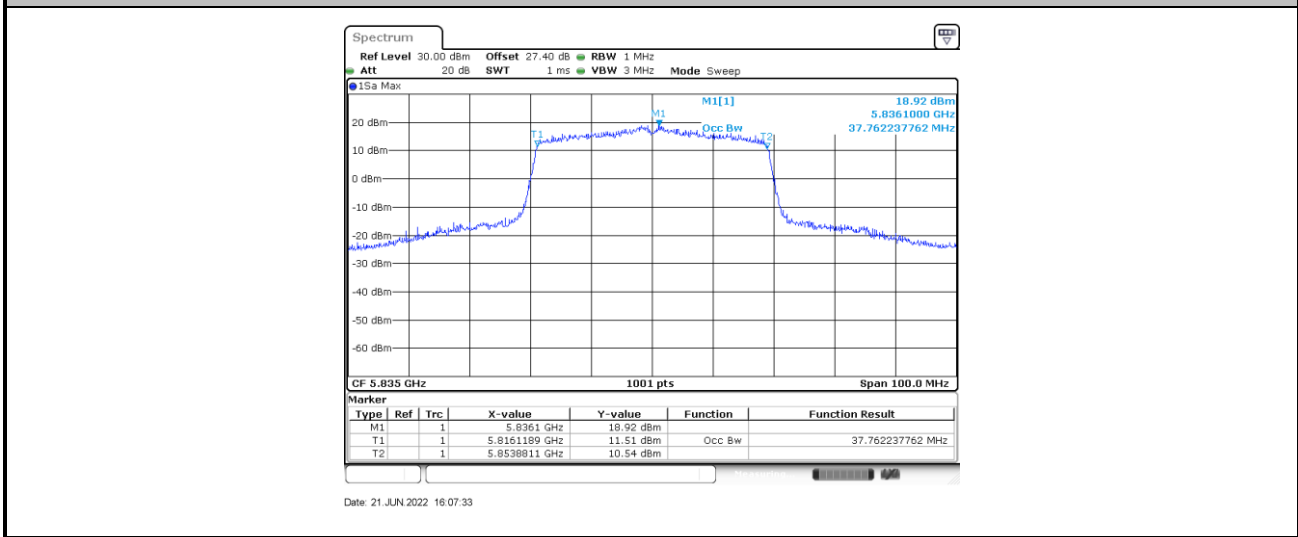
Note: The occupied channel bandwidth is maintained within the band of operation.



<802.11ax HE40 Mode>



Occupied Bandwidth



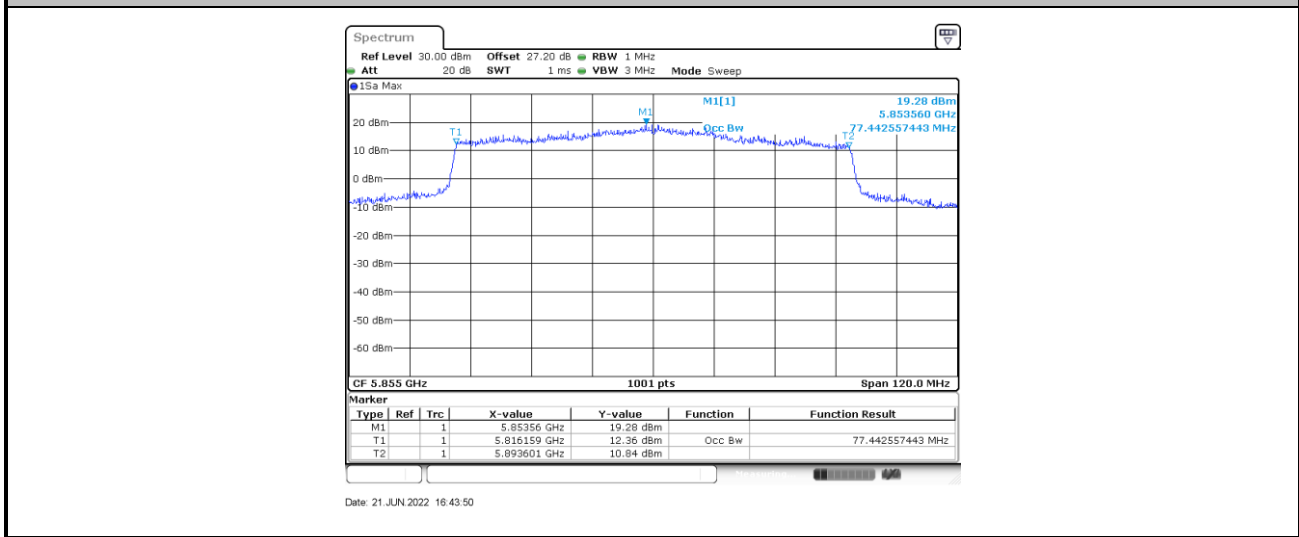
Note: The occupied channel bandwidth is maintained within the band of operation.



<802.11ax HE80 Mode>



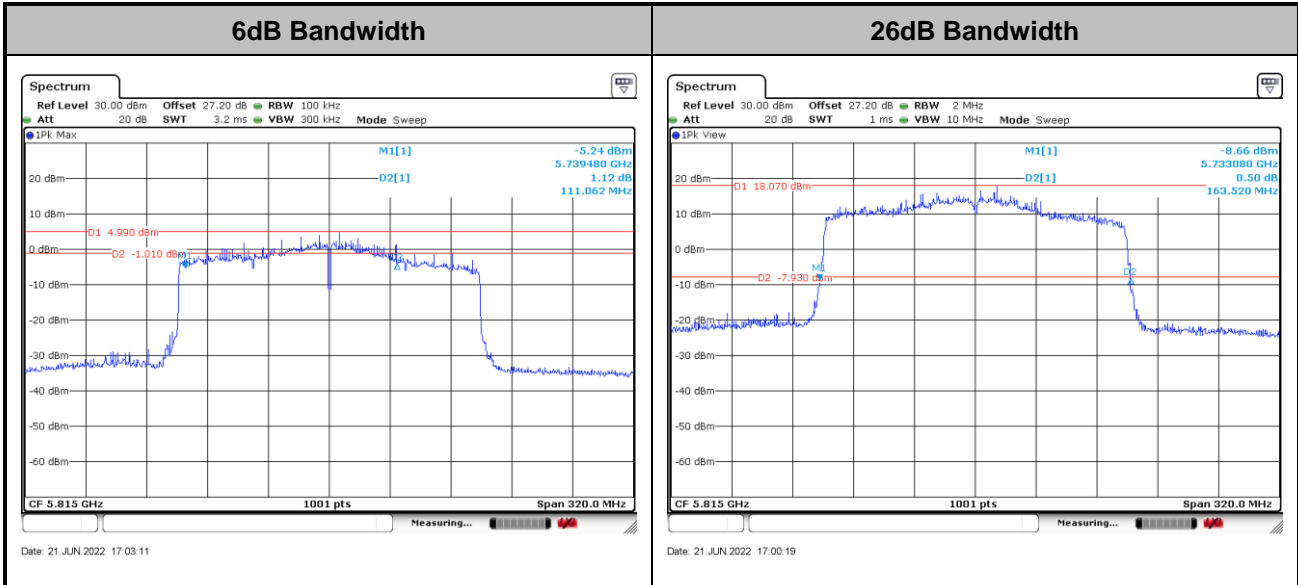
Occupied Bandwidth



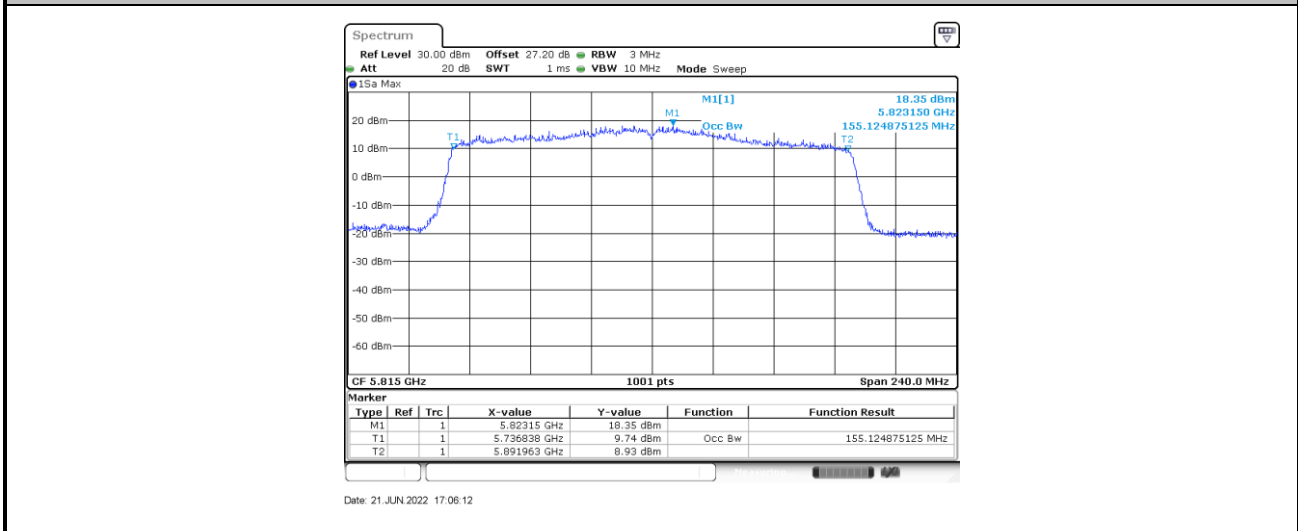
Note: The occupied channel bandwidth is maintained within the band of operation.



<802.11ax HE160 Mode>



Occupied Bandwidth



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

3.2 Maximum E.I.R.P Output Power Measurement

3.2.1 Limit of Maximum E.I.R.P Output Power

For an indoor access point operating in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 20 dBm e.i.r.p. in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. Indoor access points operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 36 dBm.

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

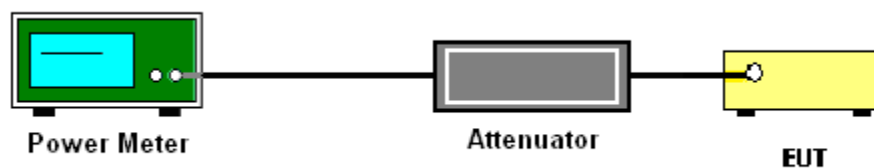
3.2.3 Test Procedures

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

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

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

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 an indoor access point operating in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 20 dBm e.i.r.p. in any 1-megahertz band.

For an indoor access point operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands shall meet both 15.407(a)(3)(ii) 36dBm limit, where the stringent limit 20dBm/MHz is applied.

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-2

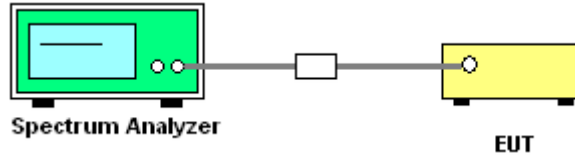
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
 - Set span to encompass the entire emission bandwidth (EBW) of the signal.
 - Set RBW = 1 MHz.
 - Set VBW \geq 3 MHz.
 - Number of points in sweep \geq 2 Span / RBW.
 - Sweep time = auto.
 - Detector = RMS
 - Trace average at least 100 traces in power averaging mode.
 - Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
 3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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

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

3.3.4 Test Setup

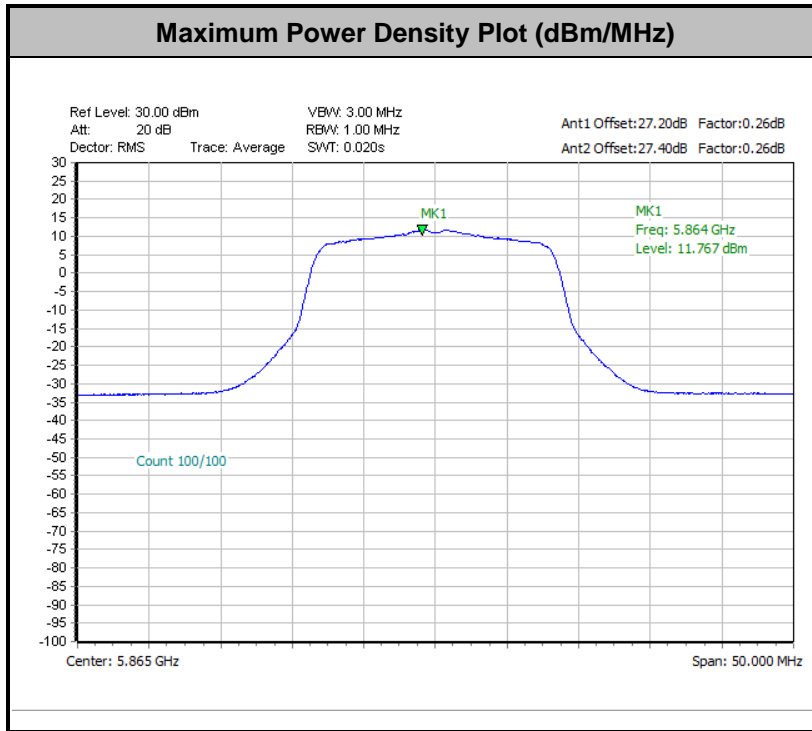


3.3.5 Test Result of Power Spectral Density

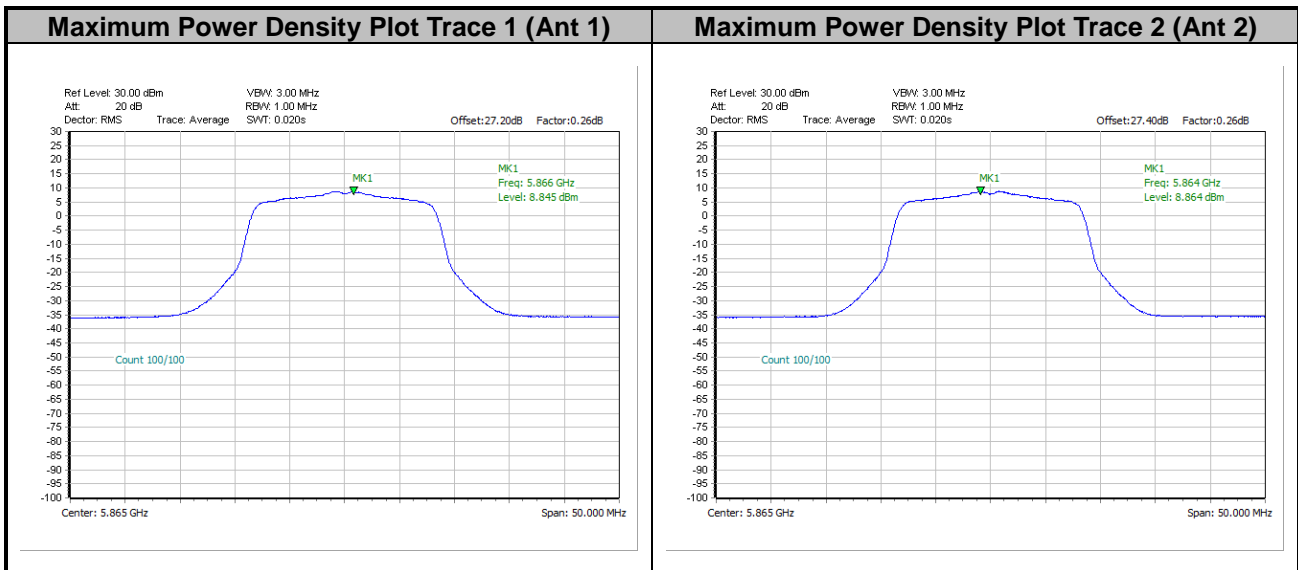
Please refer to Appendix A.



<802.11a Mode>

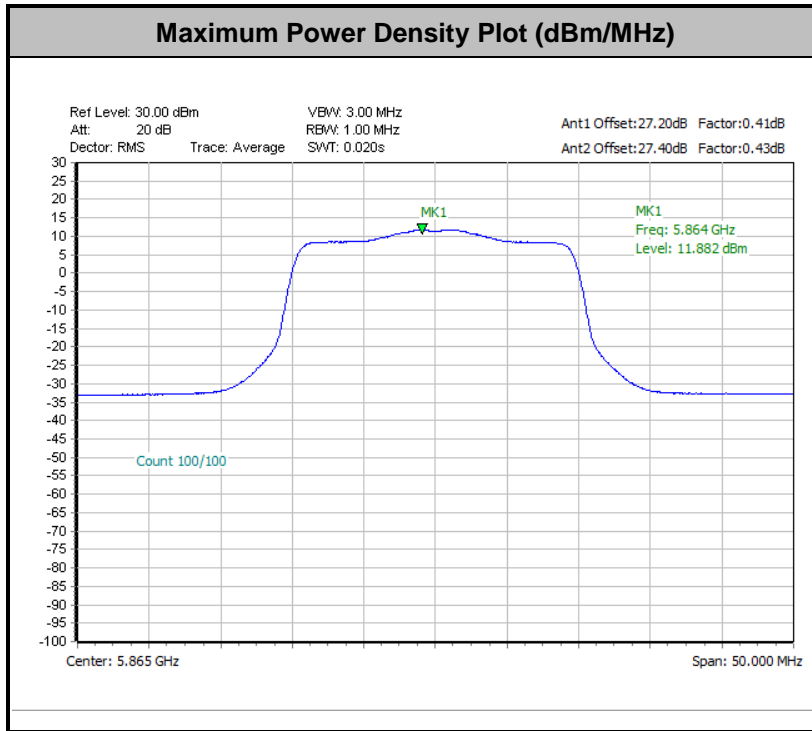


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

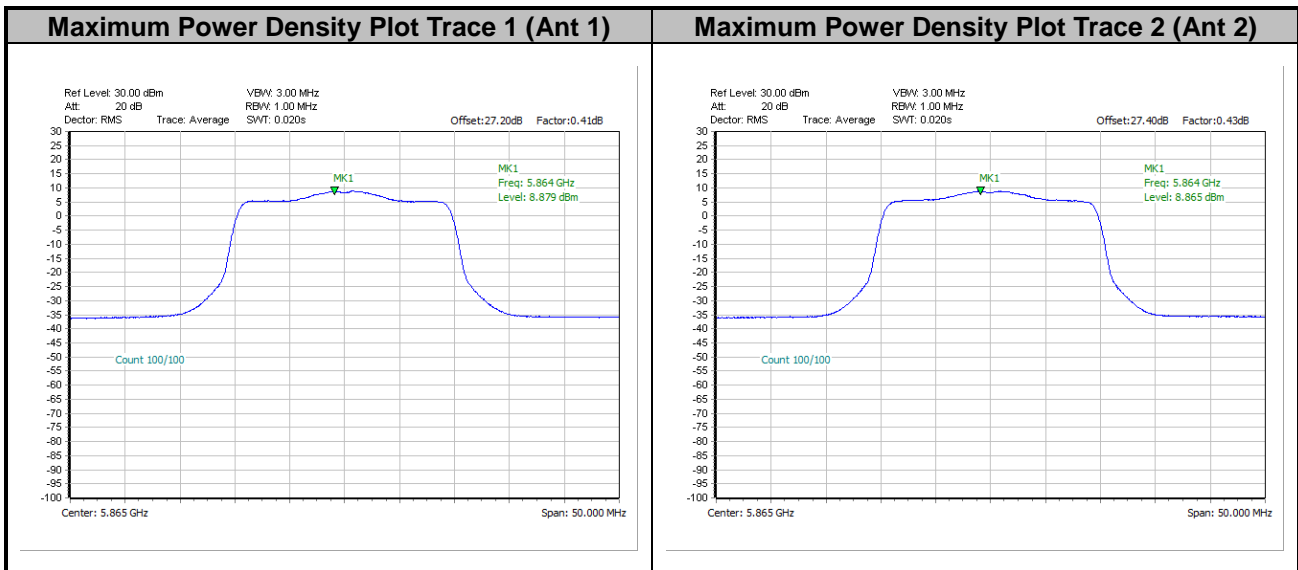




<802.11ax HE20 Mode>

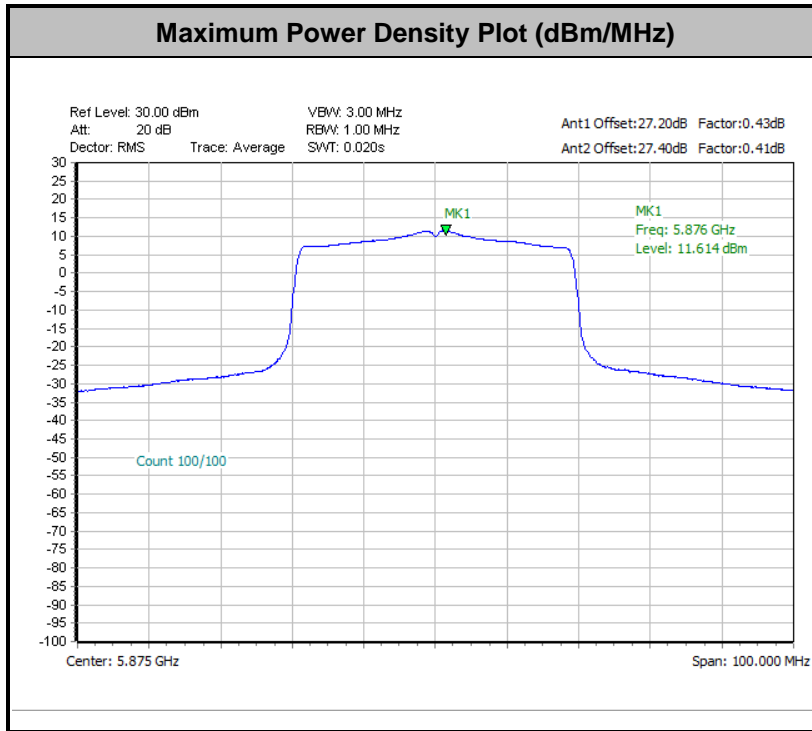


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

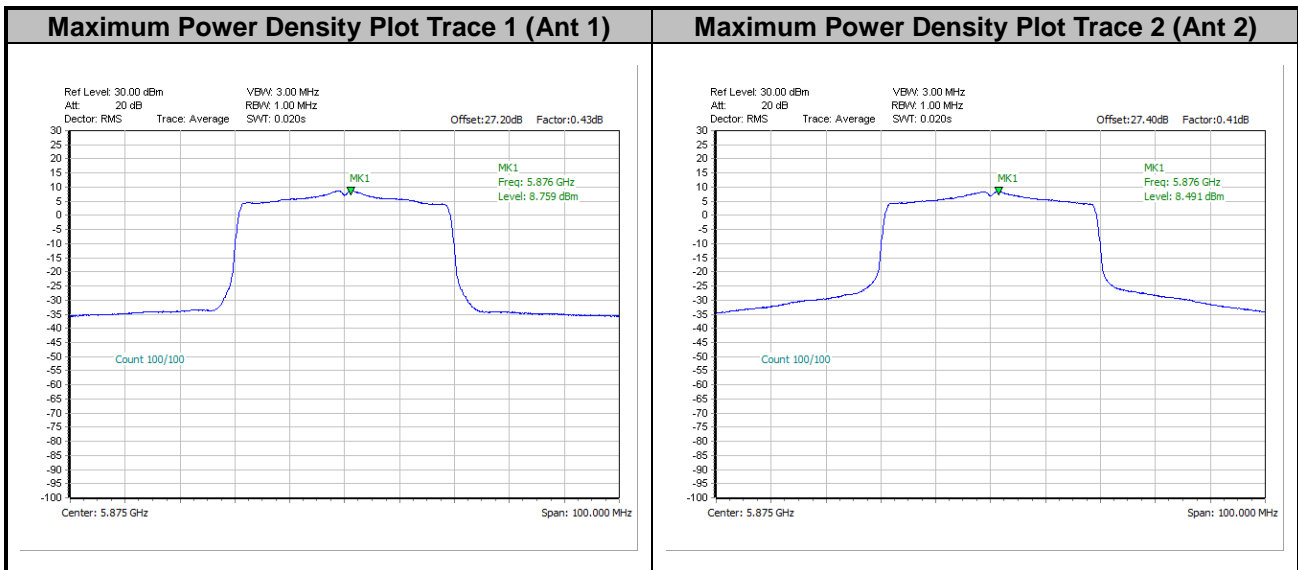




<802.11ax HE40 Mode>

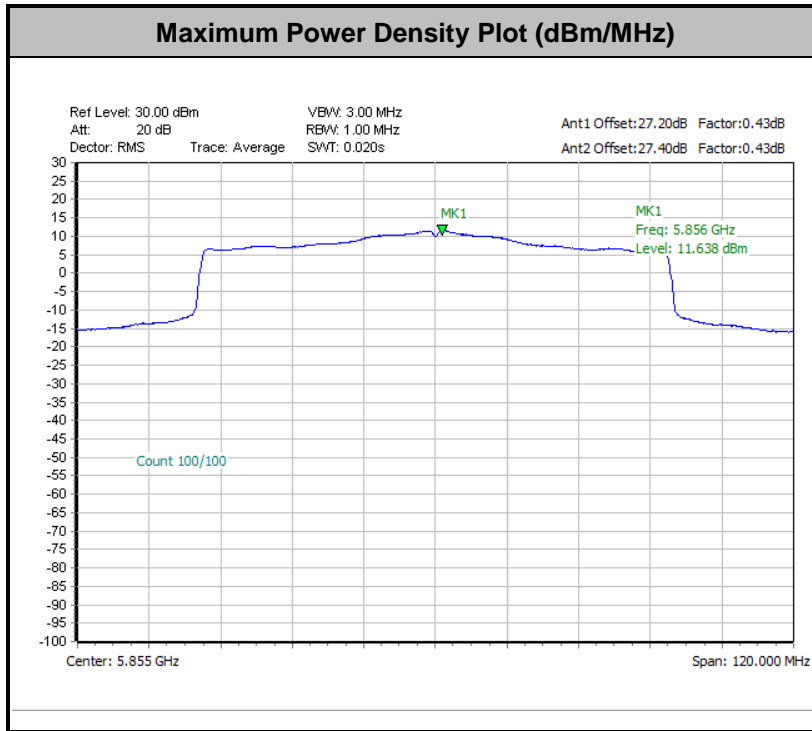


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

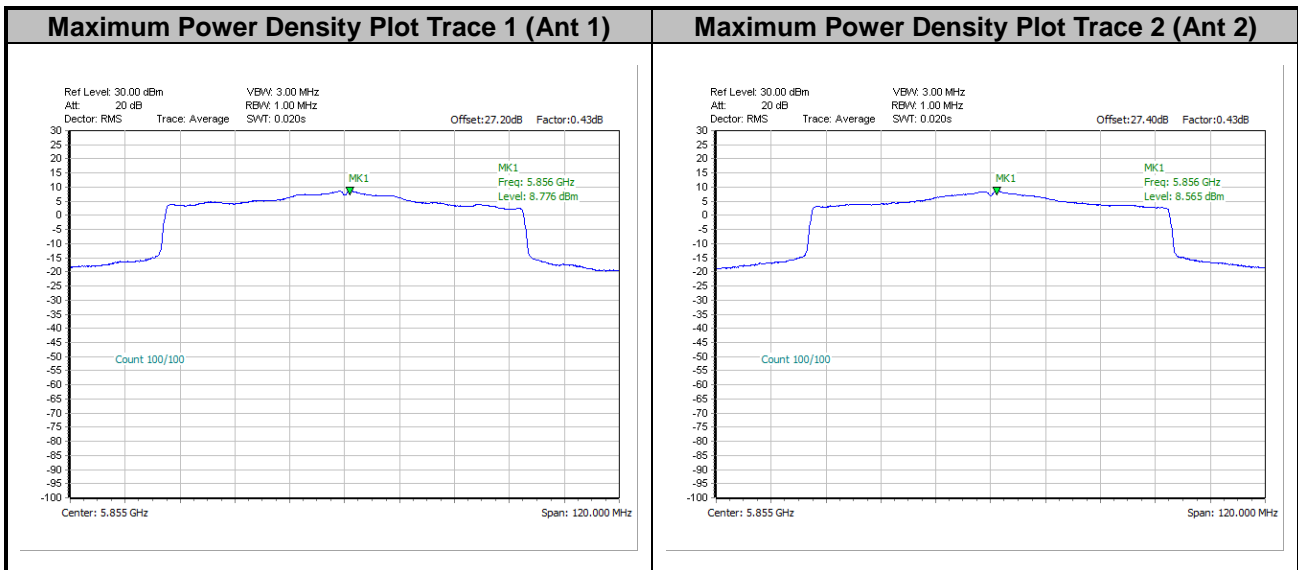




<802.11ax HE80 Mode>

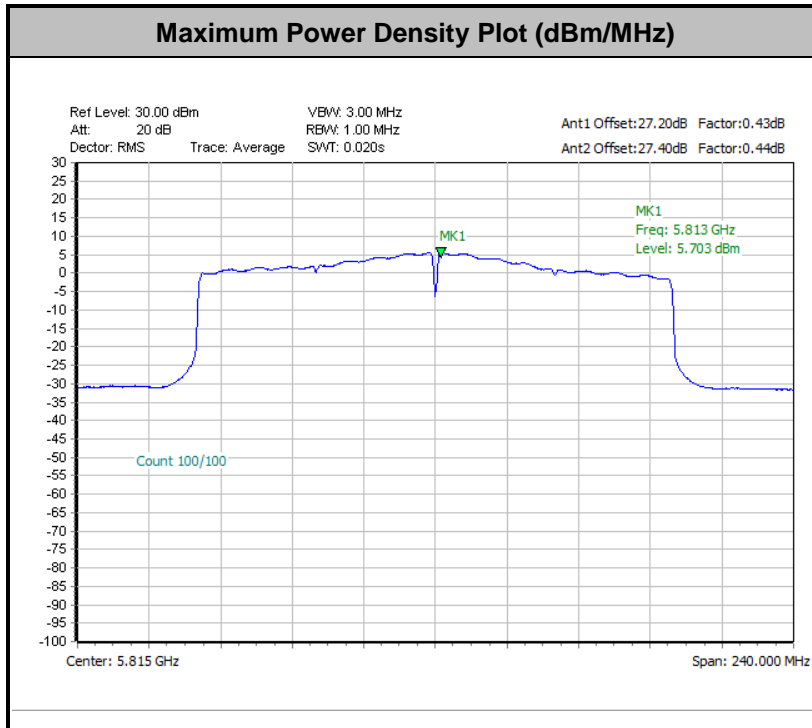


Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

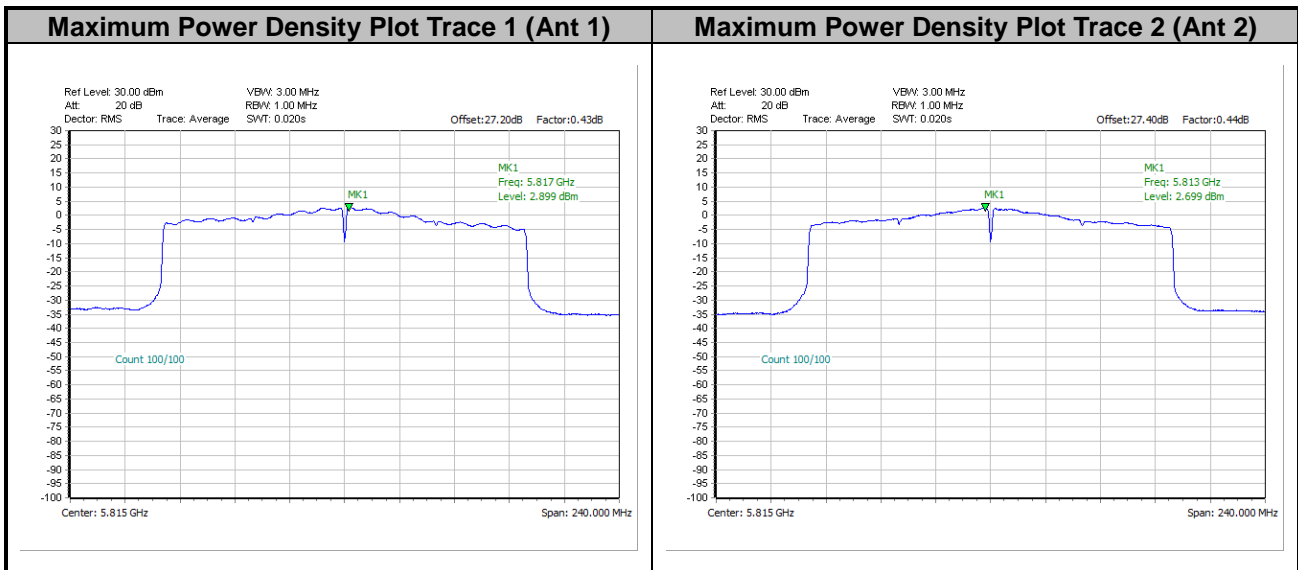




<802.11ax HE160 Mode>



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





3.4 Unwanted Emissions Measurement

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

3.4.1 Limit of Unwanted Emissions

(1) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as the following table:

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

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

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

(2) For transmitters operating solely in the 5.850-5.895 GHz band or operating on a channel that spans across 5.725-5.895 GHz:

15.407(b)(5)(i), all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz.

All emissions below 5.725 GHz shall not exceed an e.i.r.p. of -27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.

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

Use guidance in KDB Publication 789033 for all measurements. Unwanted emissions outside of restricted bands are measured with an RMS detector. In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit.

Unwanted band-edge emissions may be measured using the integration method as described in KDB Publication 789033 3. d) (ii). Emissions below 5725 MHz should be measured using peak-detection while emission above 5895 MHz should be measured using average.



Frequency(GHz)	EIRP (dBm)	Field Strength @3m distance (dBuV/m)	Note
Below 5.65	-27dBm/MHz	68.2	Peak
5.7	10dBm/MHz	105.2	Peak
5.72	15.6dBm/MHz	110.8	Peak
5.725	27dBm/MHz	122.2	Peak
5.895	15dBm/MHz	110.2	Average
5.895	35dBm/MHz	130.2	Peak
Above 5.925	-7dBm/MHz	88.2	Average
Above 5.925	13dBm/MHz	108.2	Peak

Note: Field strength at 3 m distance is converted to EIRP as the following equation:
$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

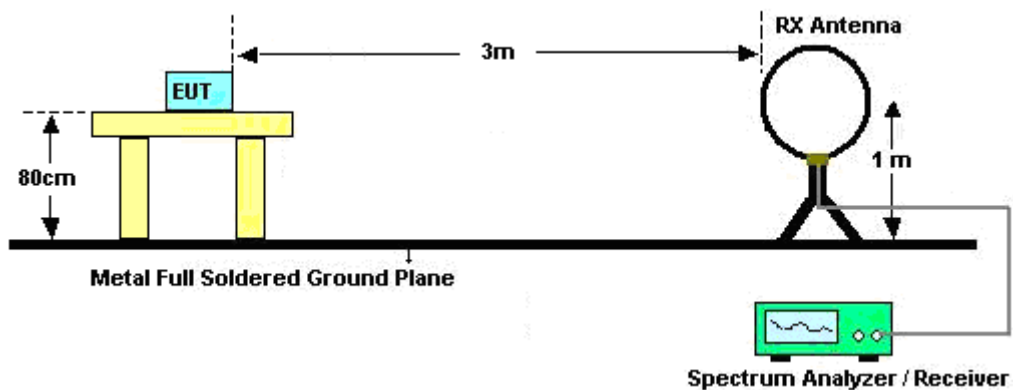
3.4.3 Test Procedures

- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - Procedure for Unwanted Emissions Measurements Below 1000 MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW \geq 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - Procedures for Average Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

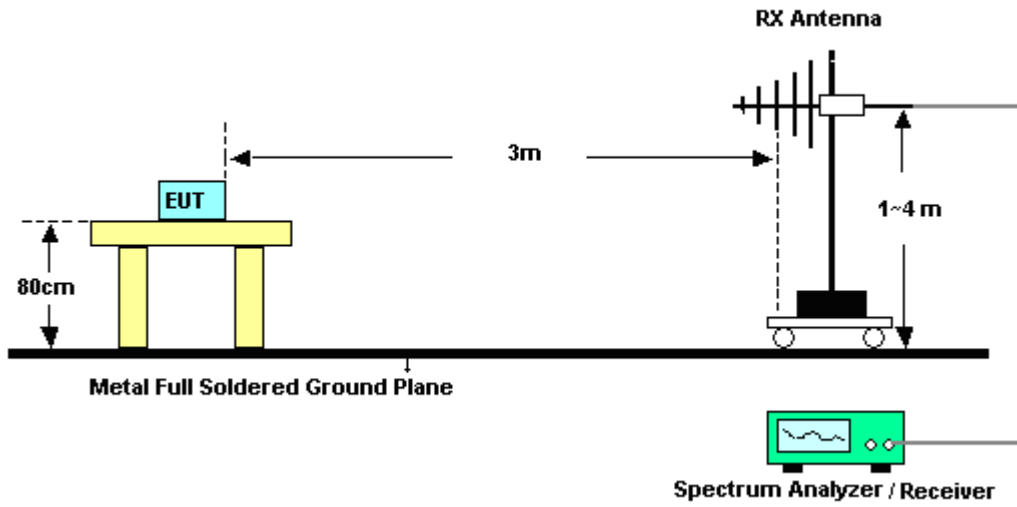
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT was placed at distance 3 meter from measurement antenna which was mounted on the top of a variable height antenna tower.
4. The measurement antenna 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.
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. Radiated testing below 1GHz was performed by adjusting the antenna tower from 1m to 4m and by rotating the turn table from 0 degree to 360 degree to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6dB margin against QP limit line, the position is marked as “-“.
7. Radiated testing above 1GHz was performed by adjusting the antenna tower from 1m to 4m and by rotating the turn table from 0 degree to 360 degree to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6dB margin against average limit line, the position is marked as “-“.

3.4.4 Test Setup

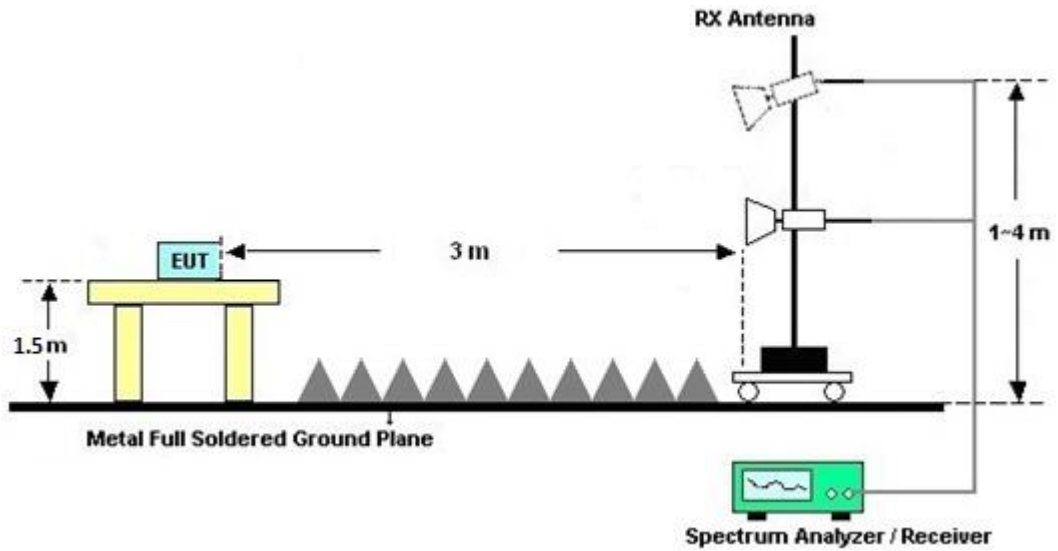
For radiated emissions below 30MHz



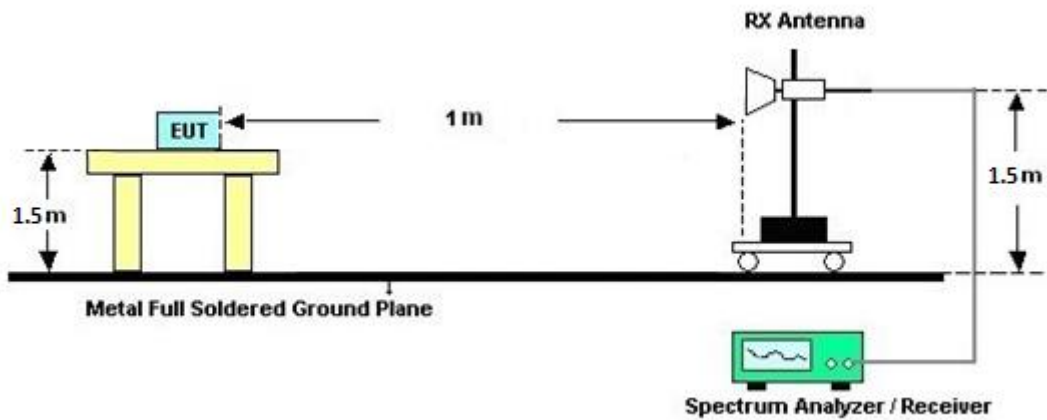
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.4.5 Test Results of Radiated 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 Results of Radiated Spurious Emissions (above 18 GHz)

For frequency above 18GHz, the pre-scanned result is 20dB lower than the limit line is not reported.

3.4.7 Test Result of Radiated Band Edges

Please refer to Appendix C and D.

3.4.8 Duty Cycle

Please refer to Appendix E.

3.4.9 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.

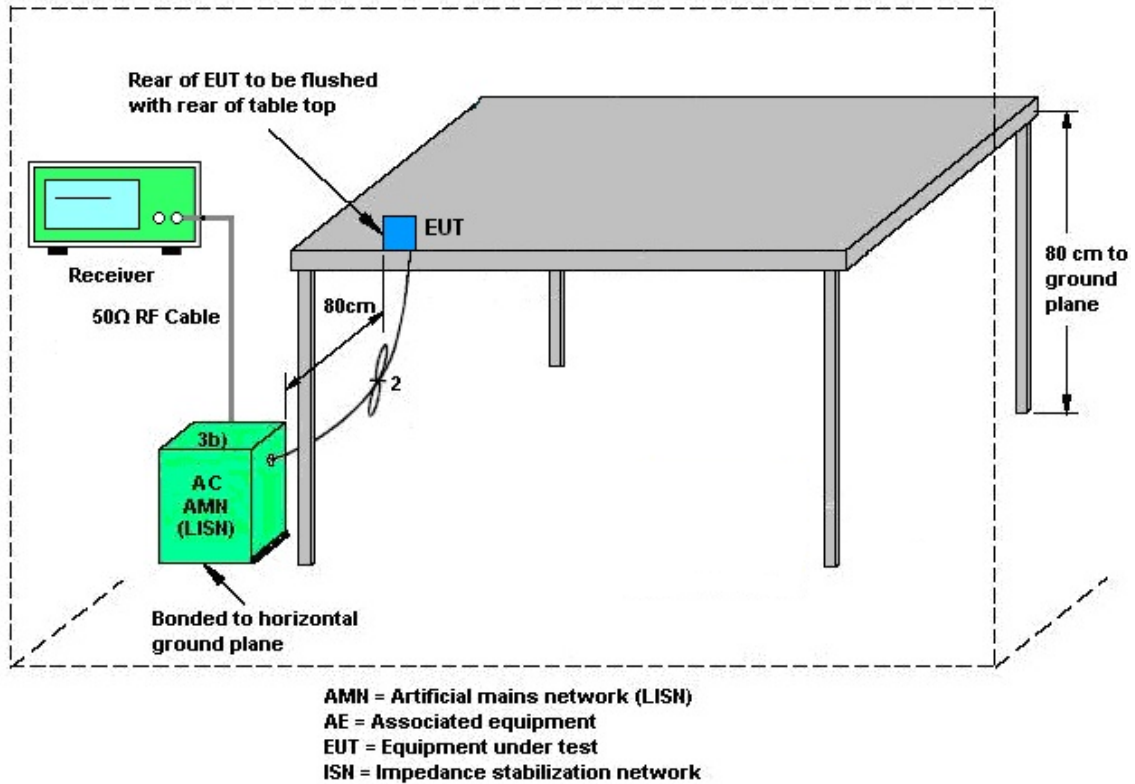
3.5.2 Measuring Instruments

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



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Antenna Requirements

3.6.1 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.2 Antenna Gain

Refer to FCC KDB 662911 D01 Multiple Transmitter Output v02r01

<CDD Modes>

For power measurements on IEEE 802.11 devices,

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

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

G_{ANT} is set equal to the gain of the antenna having the highest gain.

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

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

where

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

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

N_{ANT} = the total number of antennas

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

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

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

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

For example: If a device has two antenna, $G_{ANT1}= 3.6\text{dBi}$; $G_{ANT2}=4.2\text{dBi}$

Directional gain of power measurement = $\max(3.6, 4.2) + 0 = 4.2 \text{ dBi}$

Directional gain of PSD measurement = $10 \cdot \log \left[\left(10^{3.6/20} + 10^{4.2/20} \right)^2 / 2 \right] = 6.92 \text{ dBi}$



The directional gain of EUT is listed in the following table.

UNII-4	Ant 1 (dBi)	Ant 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)
	5.30	4.63	5.30	7.98

Calculation example:

The DG for PSD is derived from formula is

$$10 \times \log \left\{ \left[10^{(5.30 \text{ dBi} / 20)} + 10^{(4.63 \text{ dBi} / 20)} \right]^2 / 2 \right\}$$
$$= 7.98 \text{ dBi}$$



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35419 & 03	30MHz~1GHz	Apr. 24, 2022	May 25, 2022~Jun. 24, 2022	Apr. 23, 2023	Radiation (03CH07-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Feb. 09, 2022	May 25, 2022~Jun. 24, 2022	Feb. 08, 2023	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 03, 2021	May 25, 2022~Jun. 24, 2022	Dec. 02, 2022	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 07, 2022	May 25, 2022~Jun. 24, 2022	Jan. 06, 2023	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 21, 2022	May 25, 2022~Jun. 24, 2022	Apr. 20, 2023	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 04, 2021	May 25, 2022~Jun. 24, 2022	Oct. 03, 2022	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 04, 2021	May 25, 2022~Jun. 24, 2022	Oct. 03, 2022	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Jul. 23, 2021	May 25, 2022~Jun. 24, 2022	Jul. 22, 2022	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Jul. 22, 2021	May 25, 2022~Jun. 24, 2022	Jul. 21, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15682/4	30MHz to 18GHz	Feb. 23, 2022	May 25, 2022~Jun. 24, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4	9kHz to 18GHz	Feb. 23, 2022	May 25, 2022~Jun. 24, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4	9kHz to 18GHz	Feb. 23, 2022	May 25, 2022~Jun. 24, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 17, 2021	May 25, 2022~Jun. 24, 2022	Sep. 16, 2022	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 23, 2022	May 25, 2022~Jun. 24, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 14, 2022	May 25, 2022~Jun. 24, 2022	Apr. 13, 2023	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	May 25, 2022~Jun. 24, 2022	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	May 25, 2022~Jun. 24, 2022	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	May 25, 2022~Jun. 24, 2022	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	May 25, 2022~Jun. 24, 2022	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	May 25, 2022~Jun. 24, 2022	N/A	Radiation (03CH07-HY)
Hygrometer	TECPEL	TR-32	HE17XB2495	N/A	Mar. 07, 2022	May 25, 2022~Jun. 24, 2022	Mar. 06, 2023	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917025 1	18GHz~40GHz	Nov. 30, 2021	May 25, 2022~Jun. 24, 2022	Nov. 29, 2022	Radiation (03CH07-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEPEL	TR-32	HE17XB2468	N/A	Mar. 18, 2022	Jun. 01, 2022~ Jun. 21, 2022	Mar. 17, 2023	Conducted (TH02-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO 10	10MHz~6GHz	Dec. 16, 2021	Jun. 01, 2022~ Jun. 21, 2022	Dec. 15, 2022	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSV30	103738	9kHz~30GHz	May 26, 2022	Jun. 01, 2022~ Jun. 21, 2022	May 25, 2023	Conducted (TH02-HY)
Switch Box & RF Cable	Burgeon	ETF058	EC1208381	N/A	Jun. 08, 2021	Jun. 01, 2022~ Jun. 05, 2022	Jun. 07, 2022	Conducted (TH02-HY)
Switch Box & RF Cable	Burgeon	ETF058	EC1208381	N/A	Jun. 06, 2022	Jun. 07, 2022~ Jun. 21, 2022	Jun. 05, 2023	Conducted (TH02-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 30, 2022	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 01, 2021	Jun. 30, 2022	Nov. 30, 2022	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2021	Jun. 30, 2022	Nov. 16, 2022	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 03, 2021	Jun. 30, 2022	Dec. 02, 2022	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Jun. 30, 2022	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Jul. 28, 2021	Jun. 30, 2022	Jul. 27, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 30, 2021	Jun. 30, 2022	Dec. 29, 2022	Conduction (CO05-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.1 dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.8 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.0 dB
---	--------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Steve Chen	Temperature:	21~25	°C
Test Date:	2022/6/1 ~ 2022/6/21	Relative Humidity:	51~54	%

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

UNII-4 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	169	5845	16.33	16.33	19.75	19.70	15.20	15.20	0.5	Pass
11a	6Mbps	2	173	5865	16.28	16.28	20.35	19.65	15.19	15.20	0.5	Pass
11a	6Mbps	2	177	5885	16.28	16.33	19.60	20.15	15.20	15.20	0.5	Pass

TEST RESULTS DATA
Average Power Table

UNII-4 MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			DG (dBi)	E.I.R.P Power (dBm)	E.I.R.P Limit (dBm)
					Ant 1	Ant 2	SUM	Ant 1 + Ant 2	Ant 1 + Ant 2	Ant 1 + Ant 2
11a	6Mbps	2	169	5845	18.40	18.60	21.51	5.30	26.81	36
11a	6Mbps	2	173	5865	18.60	18.70	21.66	5.30	26.96	36
11a	6Mbps	2	177	5885	18.60	18.50	21.56	5.30	26.86	36
HT20	MCS0	2	169	5845	18.60	18.80	21.71	5.30	27.01	36
HT20	MCS0	2	173	5865	18.90	19.00	21.96	5.30	27.26	36
HT20	MCS0	2	177	5885	18.70	18.80	21.76	5.30	27.06	36
HT40	MCS0	2	167	5835	21.10	21.10	24.11	5.30	29.41	36
HT40	MCS0	2	175	5875	21.00	21.00	24.01	5.30	29.31	36
VHT20	MCS0	2	169	5845	18.90	18.90	21.91	5.30	27.21	36
VHT20	MCS0	2	173	5865	19.10	19.00	22.06	5.30	27.36	36
VHT20	MCS0	2	177	5885	18.90	18.80	21.86	5.30	27.16	36
VHT40	MCS0	2	167	5835	21.00	21.00	24.01	5.30	29.31	36
VHT40	MCS0	2	175	5875	20.90	20.90	23.91	5.30	29.21	36
VHT80	MCS0	2	171	5855	23.80	23.60	26.71	5.30	32.01	36
VHT160	MCS0	2	163	5815	20.70	20.70	23.71	5.30	29.01	36

TEST RESULTS DATA
Power Spectral Density

UNII-4 MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			DG (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1 + Ant 2	Ant 1 + Ant 2	Ant 1 + Ant 2	
11a	6Mbps	2	169	5845	0.26	0.26			11.57	7.98	19.56	20.00	Pass
11a	6Mbps	2	173	5865	0.26	0.26			11.77	7.98	19.75	20.00	Pass
11a	6Mbps	2	177	5885	0.26	0.26			11.70	7.98	19.68	20.00	Pass

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

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

UNII-4 MIMO													
Mod.	Data Rate	N _{Tx}	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	169	5845	Full	18.83	18.83	20.90	20.95	16.80	16.80	0.5	Pass
HE20	MCS0	2	173	5865	Full	18.83	18.83	20.75	21.05	16.35	16.05	0.5	Pass
HE20	MCS0	2	177	5885	Full	18.83	18.83	21.10	21.15	15.90	16.45	0.5	Pass
HE40	MCS0	2	167	5835	Full	37.86	37.76	40.14	40.14	35.28	36.00	0.5	Pass
HE40	MCS0	2	175	5875	Full	37.76	37.76	39.87	40.14	36.09	37.17	0.5	Pass
HE80	MCS0	2	171	5855	Full	77.44	77.56	116.16	112.32	71.67	70.39	0.5	Pass
HE160	MCS0	2	163	5815	Full	155.12	155.36	163.52	164.80	111.06	140.72	0.5	Pass

TEST RESULTS DATA
Average Power Table

UNII-4 MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			DG (dBi)	E.I.R.P Power (dBm)	E.I.R.P Limit (dBm)
						Ant 1	Ant 2	SUM			
HE20	MCS0	2	169	5845	Full	18.90	19.10	22.01	5.30	27.31	36
HE20	MCS0	2	173	5865	Full	19.10	19.30	22.21	5.30	27.51	36
HE20	MCS0	2	177	5885	Full	18.90	19.10	22.01	5.30	27.31	36
HE40	MCS0	2	167	5835	Full	21.20	21.30	24.26	5.30	29.56	36
HE40	MCS0	2	175	5875	Full	21.20	21.30	24.26	5.30	29.56	36
HE80	MCS0	2	171	5855	Full	23.80	23.70	26.76	5.30	32.06	36
HE160	MCS0	2	163	5815	Full	20.90	20.70	23.81	5.30	29.11	36

TEST RESULTS DATA
Power Spectral Density

UNII-4 MIMO														
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Power Density with Duty Factor (dBm/MHz)			DG (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM				
HE20	MCS0	2	169	5845	Full	0.41	0.43			11.77	7.98	19.75	20.00	Pass
HE20	MCS0	2	173	5865	Full	0.41	0.43			11.88	7.98	19.86	20.00	Pass
HE20	MCS0	2	177	5885	Full	0.41	0.43			11.78	7.98	19.76	20.00	Pass
HE40	MCS0	2	167	5835	Full	0.43	0.41			11.58	7.98	19.56	20.00	Pass
HE40	MCS0	2	175	5875	Full	0.43	0.41			11.61	7.98	19.60	20.00	Pass
HE80	MCS0	2	171	5855	Full	0.43	0.43			11.64	7.98	19.62	20.00	Pass
HE160	MCS0	2	163	5815	Full	0.43	0.44			5.70	7.98	13.68	20.00	Pass

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



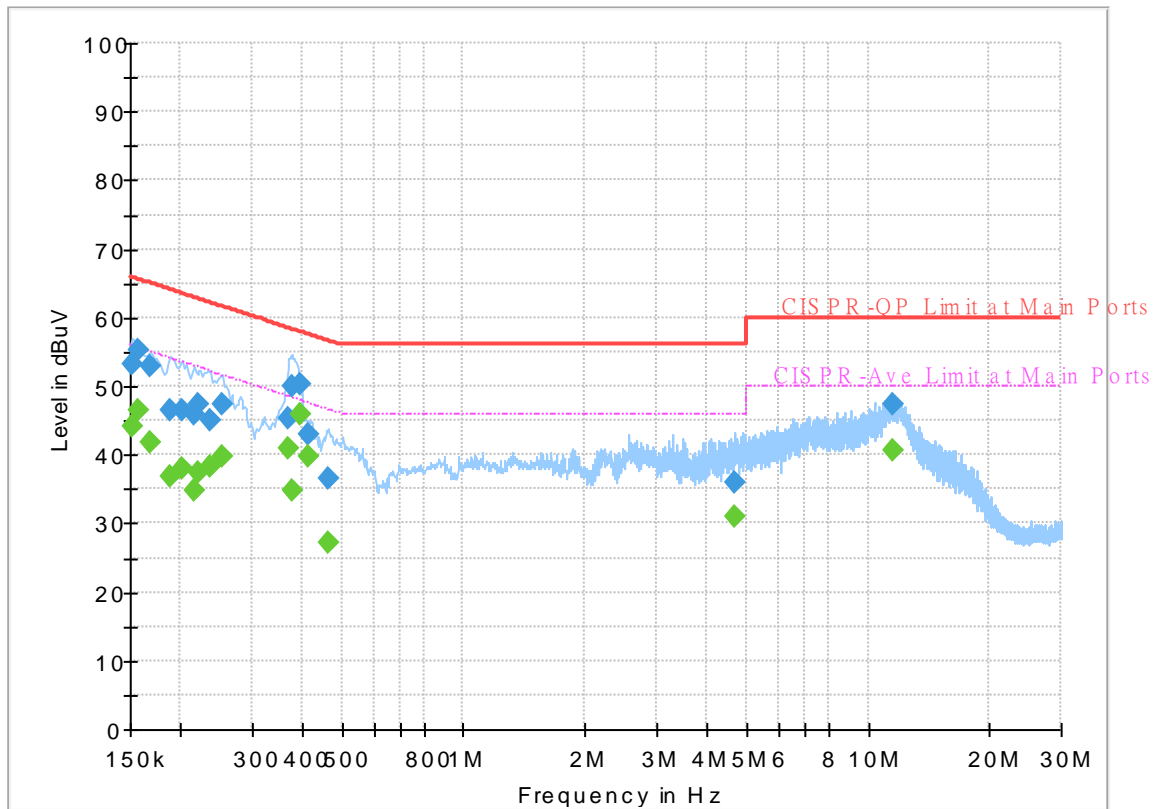
Appendix B. AC Conducted Emission Test Results

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

EUT Information

Report NO : 251805
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



Final_Result

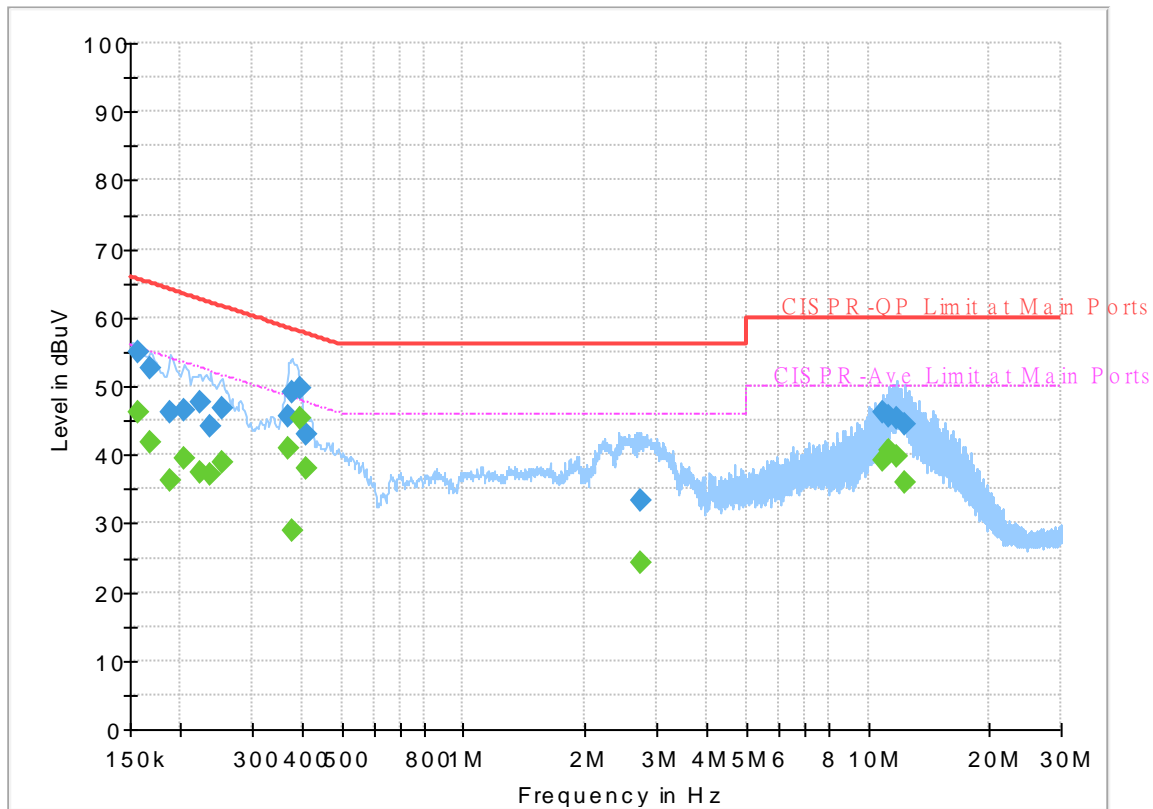
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	44.04	55.88	11.84	L1	OFF	19.6
0.152250	53.20	---	65.88	12.68	L1	OFF	19.6
0.156750	---	46.40	55.63	9.23	L1	OFF	19.6
0.156750	55.27	---	65.63	10.36	L1	OFF	19.6
0.168000	---	41.95	55.06	13.11	L1	OFF	19.6
0.168000	52.81	---	65.06	12.25	L1	OFF	19.6
0.188250	---	36.72	54.11	17.39	L1	OFF	19.6
0.188250	46.44	---	64.11	17.67	L1	OFF	19.6
0.201750	---	38.02	53.54	15.52	L1	OFF	19.6
0.201750	46.61	---	63.54	16.93	L1	OFF	19.6
0.215250	---	34.69	53.00	18.31	L1	OFF	19.6
0.215250	45.91	---	63.00	17.09	L1	OFF	19.6
0.222000	---	37.31	52.74	15.43	L1	OFF	19.6
0.222000	47.29	---	62.74	15.45	L1	OFF	19.6
0.237750	---	38.18	52.17	13.99	L1	OFF	19.6
0.237750	45.06	---	62.17	17.11	L1	OFF	19.6
0.253500	---	39.75	51.64	11.89	L1	OFF	19.6
0.253500	47.27	---	61.64	14.37	L1	OFF	19.6
0.368250	---	41.05	48.54	7.49	L1	OFF	19.6
0.368250	45.47	---	58.54	13.07	L1	OFF	19.6
0.377250	---	34.79	48.34	13.55	L1	OFF	19.6

0.377250	50.07	---	58.34	8.27	L1	OFF	19.6
0.393000	---	45.98	48.00	2.02	L1	OFF	19.6
0.393000	50.32	---	58.00	7.68	L1	OFF	19.6
0.415500	---	39.63	47.54	7.91	L1	OFF	19.6
0.415500	42.90	---	57.54	14.64	L1	OFF	19.6
0.462750	---	27.05	46.64	19.59	L1	OFF	19.6
0.462750	36.56	---	56.64	20.08	L1	OFF	19.6
4.699500	---	31.01	46.00	14.99	L1	OFF	19.7
4.699500	36.10	---	56.00	19.90	L1	OFF	19.7
11.478750	---	40.52	50.00	9.48	L1	OFF	19.8
11.478750	47.29	---	60.00	12.71	L1	OFF	19.8

EUT Information

Report NO : 251805
 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)
0.156750	---	46.22	55.63	9.41	N	OFF	19.6
0.156750	55.06	---	65.63	10.57	N	OFF	19.6
0.168000	---	41.71	55.06	13.35	N	OFF	19.6
0.168000	52.63	---	65.06	12.43	N	OFF	19.6
0.188250	---	36.35	54.11	17.76	N	OFF	19.6
0.188250	46.12	---	64.11	17.99	N	OFF	19.6
0.204000	---	39.41	53.45	14.04	N	OFF	19.6
0.204000	46.60	---	63.45	16.85	N	OFF	19.6
0.224250	---	37.36	52.66	15.30	N	OFF	19.6
0.224250	47.58	---	62.66	15.08	N	OFF	19.6
0.237750	---	37.15	52.17	15.02	N	OFF	19.6
0.237750	44.17	---	62.17	18.00	N	OFF	19.6
0.253500	---	38.93	51.64	12.71	N	OFF	19.6
0.253500	46.66	---	61.64	14.98	N	OFF	19.6
0.368250	---	40.84	48.54	7.70	N	OFF	19.6
0.368250	45.73	---	58.54	12.81	N	OFF	19.6
0.377250	---	28.99	48.34	19.35	N	OFF	19.6
0.377250	49.26	---	58.34	9.08	N	OFF	19.6
0.393000	---	45.31	48.00	2.69	N	OFF	19.6
0.393000	49.84	---	58.00	8.16	N	OFF	19.6
0.411000	---	37.97	47.63	9.66	N	OFF	19.6

0.411000	43.03	---	57.63	14.60	N	OFF	19.6
2.735250	---	24.28	46.00	21.72	N	OFF	19.6
2.735250	33.22	---	56.00	22.78	N	OFF	19.6
10.880250	---	39.17	50.00	10.83	N	OFF	19.8
10.880250	46.13	---	60.00	13.87	N	OFF	19.8
11.249250	---	40.74	50.00	9.26	N	OFF	19.8
11.249250	45.50	---	60.00	14.50	N	OFF	19.8
11.787000	---	39.64	50.00	10.36	N	OFF	19.8
11.787000	45.23	---	60.00	14.77	N	OFF	19.8
12.347250	---	35.97	50.00	14.03	N	OFF	19.8
12.347250	44.34	---	60.00	15.66	N	OFF	19.8



Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	Temperature :	23.6~27.5°C
		Relative Humidity :	55.6~61.8%

UNII-4 - 5850~5895MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 169 5845MHz		5646.61	48.97	-19.23	68.2	37.16	34.7	12.26	35.15	358	39	P	H
		5693.22	49.68	-50.52	100.2	37.69	34.87	12.28	35.16	358	39	P	H
		5717.705	49.38	-60.78	110.16	37.24	35.01	12.29	35.16	358	39	P	H
		5724.785	48.15	-73.56	121.71	35.96	35.05	12.3	35.16	358	39	P	H
	*	5845	112.82	-	-	100.4	35.2	12.4	35.18	358	39	P	H
	*	5845	105.76	-	-	93.34	35.2	12.4	35.18	358	39	A	H
		7265	54.97	-19.03	74	40.94	35.53	13.96	35.46	358	39	P	H
		7265	45.18	-8.82	54	31.15	35.53	13.96	35.46	358	39	A	H
		5897.2	56.9	-71.68	128.58	44.42	35.2	12.47	35.19	358	39	P	H
		5935.4	51.38	-56.82	108.2	38.92	35.13	12.53	35.2	358	39	P	H
		5895.6	47.76	-62	109.76	35.28	35.2	12.47	35.19	358	39	A	H
		5925.8	42.54	-45.66	88.2	30.08	35.15	12.51	35.2	358	39	A	H
		5649.855	51.01	-17.19	68.2	39.2	34.7	12.26	35.15	380	248	P	V
		5658.41	52.42	-22.03	74.45	40.57	34.73	12.27	35.15	380	248	P	V
		5712.69	49.64	-59.12	108.76	37.53	34.98	12.29	35.16	380	248	P	V
		5724.195	48.75	-71.61	120.36	36.56	35.05	12.3	35.16	380	248	P	V
	*	5845	119.72	-	-	107.3	35.2	12.4	35.18	380	248	P	V
	*	5845	112.12	-	-	99.7	35.2	12.4	35.18	380	248	A	V
		7300	54.21	-19.79	74	40.06	35.6	14.01	35.46	380	248	P	V
		7300	45.22	-8.78	54	31.07	35.6	14.01	35.46	380	248	A	V
	5896.6	59.31	-69.71	129.02	46.83	35.2	12.47	35.19	380	248	P	V	
	5945	52.49	-55.71	108.2	40.04	35.11	12.54	35.2	380	248	P	V	
	5895.8	50.11	-59.5	109.61	37.63	35.2	12.47	35.19	380	248	A	V	
	5940	43.95	-44.25	88.2	31.5	35.12	12.53	35.2	380	248	A	V	



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 173 5865MHz		5635.4	49.78	-18.42	68.2	37.97	34.7	12.26	35.15	381	54	P	H
		5672.275	49.32	-35.4	84.72	37.41	34.79	12.27	35.15	381	54	P	H
		5711.215	48.38	-59.96	108.34	36.28	34.97	12.29	35.16	381	54	P	H
		5723.31	48.17	-70.18	118.35	35.99	35.04	12.3	35.16	381	54	P	H
	*	5865	113.1	-	-	100.67	35.2	12.42	35.19	381	54	P	H
	*	5865	105.64	-	-	93.21	35.2	12.42	35.19	381	54	A	H
		7321	54.72	-19.28	74	40.47	35.68	14.03	35.46	381	54	P	H
		7321	44.94	-9.06	54	30.69	35.68	14.03	35.46	381	54	A	H
		5895.4	63.97	-65.94	129.91	51.49	35.2	12.47	35.19	381	54	P	H
		5990.4	52.16	-56.04	108.2	39.66	35.1	12.61	35.21	381	54	P	H
		5895	55.27	-54.93	110.2	42.79	35.2	12.47	35.19	381	54	A	H
		5925.2	42.32	-45.88	88.2	29.86	35.15	12.51	35.2	381	54	A	H
		5626.255	49.99	-18.21	68.2	38.18	34.7	12.25	35.14	396	251	P	V
		5673.75	54.13	-31.69	85.82	42.21	34.8	12.27	35.15	396	251	P	V
		5719.475	50.36	-60.29	110.65	38.21	35.02	12.29	35.16	396	251	P	V
		5721.54	51.18	-63.13	114.31	39.02	35.03	12.29	35.16	396	251	P	V
	*	5865	119.8	-	-	107.37	35.2	12.42	35.19	396	251	P	V
	*	5865	112.56	-	-	100.13	35.2	12.42	35.19	396	251	A	V
		7643	54.44	-19.56	74	40.11	35.6	14.31	35.58	396	251	P	V
		7643	44.56	-9.44	54	30.23	35.6	14.31	35.58	396	251	A	V
	5897.6	68.33	-59.96	128.29	55.85	35.2	12.47	35.19	396	251	P	V	
	5930.6	51.63	-56.57	108.2	39.17	35.14	12.52	35.2	396	251	P	V	
	5897.2	58.51	-50.07	108.58	46.03	35.2	12.47	35.19	396	251	A	V	
	5926	43.54	-44.66	88.2	31.08	35.15	12.51	35.2	396	251	A	V	



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 177 5885MHz		5635.105	49.44	-18.76	68.2	37.63	34.7	12.26	35.15	366	37	P	H
		5696.76	51.02	-51.79	102.81	39.01	34.89	12.28	35.16	366	37	P	H
		5702.955	49.07	-56.96	106.03	37.02	34.92	12.29	35.16	366	37	P	H
		5720.655	48.73	-63.56	112.29	36.58	35.02	12.29	35.16	366	37	P	H
	*	5885	112.15	-	-	99.69	35.2	12.45	35.19	366	37	P	H
	*	5885	105.49	-	-	93.03	35.2	12.45	35.19	366	37	A	H
		7328	54.35	-19.65	74	40.06	35.71	14.04	35.46	366	37	P	H
		7328	44.4	-9.6	54	30.11	35.71	14.04	35.46	366	37	A	H
		5895.6	86.94	-42.82	129.76	74.46	35.2	12.47	35.19	366	37	P	H
		5928.8	54.62	-53.58	108.2	42.16	35.14	12.52	35.2	366	37	P	H
		5895	79.88	-30.32	110.2	67.4	35.2	12.47	35.19	366	37	A	H
		5925	46.09	-42.11	88.2	33.63	35.15	12.51	35.2	366	37	A	H
		5623.01	49.7	-18.5	68.2	37.89	34.7	12.25	35.14	391	239	P	V
		5690.27	52.13	-45.9	98.03	40.15	34.86	12.28	35.16	391	239	P	V
		5701.185	50.94	-54.59	105.53	38.9	34.91	12.29	35.16	391	239	P	V
		5721.245	48.44	-65.2	113.64	36.28	35.03	12.29	35.16	391	239	P	V
	*	5885	119.33	-	-	106.87	35.2	12.45	35.19	391	239	P	V
	*	5885	111.56	-	-	99.1	35.2	12.45	35.19	391	239	A	V
		7580	55.08	-18.92	74	40.73	35.6	14.28	35.53	391	239	P	V
		7580	45.19	-8.81	54	30.84	35.6	14.28	35.53	391	239	A	V
	5895	94.97	-35.23	130.2	82.49	35.2	12.47	35.19	391	239	P	V	
	5925.2	58.55	-49.65	108.2	46.09	35.15	12.51	35.2	391	239	P	V	
	5895	86.06	-24.14	110.2	73.58	35.2	12.47	35.19	391	239	A	V	
	5925	50.79	-37.41	88.2	38.33	35.15	12.51	35.2	391	239	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII- 4 5850~5895MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Margin (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11a CH 169 5845MHz		7265	54.97	-19.03	74	40.94	35.53	13.96	35.46	358	39	P	H	
		7265	45.18	-8.82	54	31.15	35.53	13.96	35.46	358	39	A	H	
		11690	46.74	-27.26	74	45.37	38.48	19.48	56.59	-	-	P	H	
		13270	47.14	-26.86	74	44.99	39.11	20.97	57.93	-	-	P	H	
		14480	47.91	-26.09	74	43.92	39.56	21.96	57.53	-	-	P	H	
		17535	50.2	-58	108.2	39.95	41.37	24.14	55.26	-	-	P	H	
		17879	51.04	-22.96	74	40.29	41.44	24.42	55.11	-	-	P	H	
		17879	41.29	-12.71	54	30.54	41.44	24.42	55.11	-	-	A	H	
														H
														H
														H
														H
			7300	54.21	-19.79	74	40.06	35.6	14.01	35.46	380	248	P	V
			7300	45.22	-8.78	54	31.07	35.6	14.01	35.46	380	248	A	V
			11690	50.71	-23.29	74	49.34	38.48	19.48	56.59	296	188	P	V
			11690	42.92	-11.08	54	41.55	38.48	19.48	56.59	296	188	A	V
			13369	47.63	-26.37	74	45.45	39.06	21.06	57.94	-	-	P	V
			14491	47.98	-26.02	74	43.96	39.58	21.96	57.52	-	-	P	V
			17535	55.31	-52.89	108.2	45.06	41.37	24.14	55.26	-	-	P	V
			17879	51.62	-22.38	74	40.87	41.44	24.42	55.11	-	-	P	V
		17879	41.14	-12.86	54	30.39	41.44	24.42	55.11	-	-	A	V	
													V	
													V	
													V	



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11a CH 173 5865MHz		7321	54.72	-19.28	74	40.47	35.68	14.03	35.46	381	54	P	H	
		7321	44.94	-9.06	54	30.69	35.68	14.03	35.46	381	54	A	H	
		11730	47.38	-26.62	74	45.9	38.5	19.52	56.54	-	-	P	H	
		13391	47.1	-26.9	74	44.94	39.02	21.08	57.94	-	-	P	H	
		14499	48.57	-25.43	74	44.52	39.6	21.97	57.52	-	-	P	H	
		14499	38.69	-15.31	54	34.64	39.6	21.97	57.52	-	-	A	H	
		17595	50.35	-57.85	108.2	39.91	41.49	24.19	55.24	-	-	P	H	
		17824	51.26	-22.74	74	40.47	41.55	24.37	55.13	-	-	P	H	
		17824	41.35	-12.65	54	30.56	41.55	24.37	55.13	-	-	A	H	
														H
														H
														H
			7643	54.44	-19.56	74	40.11	35.6	14.31	35.58	396	251	P	V
			7643	44.56	-9.44	54	30.23	35.6	14.31	35.58	396	251	A	V
			11730	50.54	-23.46	74	49.06	38.5	19.52	56.54	300	191	P	V
			11730	42.75	-11.25	54	41.27	38.5	19.52	56.54	300	191	A	V
			13358	47.22	-26.78	74	45.03	39.08	21.05	57.94	-	-	P	V
			14499	47.94	-26.06	74	43.89	39.6	21.97	57.52	-	-	P	V
			17595	52.79	-55.41	108.2	42.35	41.49	24.19	55.24	-	-	P	V
			17956	51.15	-22.85	74	40.27	41.46	24.49	55.07	-	-	P	V
		17956	41.21	-12.79	54	30.33	41.46	24.49	55.07	-	-	A	V	
													V	
													V	
													V	



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11a CH 177 5885MHz		7328	54.35	-19.65	74	40.06	35.71	14.04	35.46	366	37	P	H	
		7328	44.4	-9.6	54	30.11	35.71	14.04	35.46	366	37	A	H	
		11770	46.35	-27.65	74	44.77	38.5	19.56	56.48	-	-	P	H	
		13380	47.13	-26.87	74	44.96	39.04	21.07	57.94	-	-	P	H	
		14499	48.83	-25.17	74	44.78	39.6	21.97	57.52	-	-	P	H	
		14499	39.07	-14.93	54	35.02	39.6	21.97	57.52	-	-	A	H	
		17655	50.79	-57.41	108.2	40.27	41.5	24.23	55.21	-	-	P	H	
		17747	51.44	-22.56	74	40.75	41.55	24.31	55.17	-	-	P	H	
		17747	41.58	-12.42	54	30.89	41.55	24.31	55.17	-	-	A	H	
														H
														H
														H
			7580	55.08	-18.92	74	40.73	35.6	14.28	35.53	391	239	P	V
			7580	45.19	-8.81	54	30.84	35.6	14.28	35.53	391	239	A	V
			11770	53.56	-20.44	74	51.98	38.5	19.56	56.48	300	193	P	V
			11770	44	-10	54	42.42	38.5	19.56	56.48	300	193	A	V
			13380	47.22	-26.78	74	45.05	39.04	21.07	57.94	-	-	P	V
			14499	48.31	-25.69	74	44.26	39.6	21.97	57.52	-	-	P	V
			14499	38.46	-15.54	54	34.41	39.6	21.97	57.52	-	-	A	V
			17655	55.01	-53.19	108.2	44.49	41.5	24.23	55.21	-	-	P	V
		17802	51.1	-22.9	74	40.28	41.6	24.36	55.14	-	-	P	V	
		17802	41.17	-12.83	54	30.35	41.6	24.36	55.14	-	-	A	V	
													V	
													V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. The emission level close to 18GHz is checked that the average emission level is noise floor only. 													



UNII- 4 5850~5895MHz
WIFI 802.11ax HE20_Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5646.02	50.29	-17.91	68.2	38.48	34.7	12.26	35.15	358	39	P	H
		5653.69	49.95	-20.99	70.94	38.13	34.71	12.26	35.15	358	39	P	H
		5707.97	48.35	-59.08	107.43	36.27	34.95	12.29	35.16	358	39	P	H
		5723.605	49.81	-69.21	119.02	37.63	35.04	12.3	35.16	358	39	P	H
	*	5845	115.11	-	-	102.69	35.2	12.4	35.18	358	39	P	H
	*	5845	105.59	-	-	93.17	35.2	12.4	35.18	358	39	A	H
		7685	54.02	-19.98	74	39.63	35.67	14.32	35.6	358	39	P	H
		7685	44.11	-9.89	54	29.72	35.67	14.32	35.6	358	39	A	H
		5898	61.24	-66.75	127.99	48.76	35.2	12.47	35.19	358	39	P	H
		5940	51.37	-56.83	108.2	38.92	35.12	12.53	35.2	358	39	P	H
802.11ax		5895.6	49.23	-60.53	109.76	36.75	35.2	12.47	35.19	358	39	A	H
HE20 Full		5925.6	42.58	-45.62	88.2	30.12	35.15	12.51	35.2	358	39	A	H
CH 169		5643.955	51.64	-16.56	68.2	39.83	34.7	12.26	35.15	380	248	P	V
5845MHz		5656.345	52.99	-19.92	72.91	41.14	34.73	12.27	35.15	380	248	P	V
		5709.445	50.62	-57.23	107.85	38.53	34.96	12.29	35.16	380	248	P	V
		5720.36	49.09	-62.53	111.62	36.94	35.02	12.29	35.16	380	248	P	V
	*	5845	120.69	-	-	108.27	35.2	12.4	35.18	380	248	P	V
	*	5845	112.28	-	-	99.86	35.2	12.4	35.18	380	248	A	V
		7321	56.15	-17.85	74	41.9	35.68	14.03	35.46	380	248	P	V
		7321	45.19	-8.81	54	30.94	35.68	14.03	35.46	380	248	A	V
		5898.8	63.99	-63.42	127.41	51.51	35.2	12.47	35.19	380	248	P	V
		5929.2	54.73	-53.47	108.2	42.27	35.14	12.52	35.2	380	248	P	V
		5895.4	51.83	-58.08	109.91	39.35	35.2	12.47	35.19	380	248	A	V
		5925.6	44.02	-44.18	88.2	31.56	35.15	12.51	35.2	380	248	A	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 173 5865MHz		5619.765	49.42	-18.78	68.2	37.61	34.7	12.25	35.14	400	354	P	H
		5665.49	50.87	-28.83	79.7	38.99	34.76	12.27	35.15	400	354	P	H
		5719.77	49.15	-61.59	110.74	37	35.02	12.29	35.16	400	354	P	H
		5721.54	48.89	-65.42	114.31	36.73	35.03	12.29	35.16	400	354	P	H
	*	5865	113.16	-	-	100.73	35.2	12.42	35.19	400	354	P	H
	*	5865	105.07	-	-	92.64	35.2	12.42	35.19	400	354	A	H
		7510	54.34	-19.66	74	39.92	35.68	14.22	35.48	400	354	P	H
		7510	44.38	-9.62	54	29.96	35.68	14.22	35.48	400	354	A	H
		5897.8	67.49	-60.65	128.14	55.01	35.2	12.47	35.19	400	354	P	H
		5990.8	53.66	-54.54	108.2	41.16	35.1	12.61	35.21	400	354	P	H
		5895	58.01	-52.19	110.2	45.53	35.2	12.47	35.19	400	354	A	H
		5925.2	43.92	-44.28	88.2	31.46	35.15	12.51	35.2	400	354	A	H
		5608.85	49.47	-18.73	68.2	37.67	34.7	12.24	35.14	396	251	P	V
		5675.225	52.57	-34.34	86.91	40.65	34.8	12.27	35.15	396	251	P	V
		5707.38	51.33	-55.94	107.27	39.26	34.94	12.29	35.16	396	251	P	V
		5725.08	49.88	-110.12	160	37.69	35.05	12.3	35.16	396	251	P	V
	*	5865	120.38	-	-	107.95	35.2	12.42	35.19	396	251	P	V
	*	5865	112.54	-	-	100.11	35.2	12.42	35.19	396	251	A	V
		7314	54.17	-19.83	74	39.95	35.66	14.02	35.46	396	251	P	V
		7314	44.28	-9.72	54	30.06	35.66	14.02	35.46	396	251	A	V
	5898.4	71.66	-56.04	127.7	59.18	35.2	12.47	35.19	396	251	P	V	
	5941.6	54.71	-53.49	108.2	42.25	35.12	12.54	35.2	396	251	P	V	
	5895	62.06	-48.14	110.2	49.58	35.2	12.47	35.19	396	251	A	V	
	5925	45.28	-42.92	88.2	32.82	35.15	12.51	35.2	396	251	A	V	



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 177 5885MHz		5621.24	47.55	-20.65	68.2	35.74	34.7	12.25	35.14	348	44	P	H
		5697.94	50.31	-53.37	103.68	38.3	34.89	12.28	35.16	348	44	P	H
		5701.48	48.7	-56.92	105.62	36.66	34.91	12.29	35.16	348	44	P	H
		5721.245	48.78	-64.86	113.64	36.62	35.03	12.29	35.16	348	44	P	H
	*	5885	113.84	-	-	101.38	35.2	12.45	35.19	348	44	P	H
	*	5885	105.25	-	-	92.79	35.2	12.45	35.19	348	44	A	H
		7398	54.72	-19.28	74	40.17	35.9	14.12	35.47	348	44	P	H
		7398	44.82	-9.18	54	30.27	35.9	14.12	35.47	348	44	A	H
		5895	94.74	-35.46	130.2	82.26	35.2	12.47	35.19	348	44	P	H
		5926	54.34	-53.86	108.2	41.88	35.15	12.51	35.2	348	44	P	H
		5895	91.29	-18.91	110.2	78.81	35.2	12.47	35.19	348	44	A	H
		5925	46.74	-41.46	88.2	34.28	35.15	12.51	35.2	348	44	A	H
		5626.255	49.48	-18.72	68.2	37.67	34.7	12.25	35.14	392	239	P	V
		5693.515	52.05	-48.37	100.42	40.06	34.87	12.28	35.16	392	239	P	V
		5701.48	50.9	-54.72	105.62	38.86	34.91	12.29	35.16	392	239	P	V
		5725.08	48.23	-111.77	160	36.04	35.05	12.3	35.16	392	239	P	V
	*	5885	121.56	-	-	109.1	35.2	12.45	35.19	392	239	P	V
	*	5885	112.23	-	-	99.77	35.2	12.45	35.19	392	239	A	V
		7335	54.21	-19.79	74	39.88	35.74	14.05	35.46	392	239	P	V
		7335	44.26	-9.74	54	29.93	35.74	14.05	35.46	392	239	A	V
	5895	104.7	-25.5	130.2	92.22	35.2	12.47	35.19	392	239	P	V	
	5925	64.04	-44.16	108.2	51.58	35.15	12.51	35.2	392	239	P	V	
	5895	99.12	-11.08	110.2	86.64	35.2	12.47	35.19	392	239	A	V	
	5925	54.46	-33.74	88.2	42	35.15	12.51	35.2	392	239	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII- 4 5850~5895MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE20 Full CH 169 5845MHz		7685	54.02	-19.98	74	39.63	35.67	14.32	35.6	358	39	P	H	
		7685	44.11	-9.89	54	29.72	35.67	14.32	35.6	358	39	A	H	
		11690	46.4	-27.6	74	45.03	38.48	19.48	56.59	-	-	P	H	
		13358	48.4	-25.6	74	46.21	39.08	21.05	57.94	-	-	P	H	
		13358	38.05	-15.95	54	35.86	39.08	21.05	57.94	-	-	A	H	
		14499	48.36	-25.64	74	44.31	39.6	21.97	57.52	-	-	P	H	
		14499	38.19	-15.81	54	34.14	39.6	21.97	57.52	-	-	A	H	
		17535	51.6	-56.6	108.2	41.35	41.37	24.14	55.26	-	-	P	H	
		17747	52.08	-21.92	74	41.39	41.55	24.31	55.17	-	-	P	H	
		17747	41.67	-12.33	54	30.98	41.55	24.31	55.17	-	-	A	H	
														H
														H
			7321	56.15	-17.85	74	41.9	35.68	14.03	35.46	380	248	P	V
			7321	45.19	-8.81	54	30.94	35.68	14.03	35.46	380	248	A	V
			11690	51.06	-22.94	74	49.69	38.48	19.48	56.59	294	190	P	V
			11690	41.42	-12.58	54	40.05	38.48	19.48	56.59	294	190	A	V
			13358	48.61	-25.39	74	46.42	39.08	21.05	57.94	-	-	P	V
			13358	38.34	-15.66	54	36.15	39.08	21.05	57.94	-	-	A	V
			14499	48.5	-25.5	74	44.45	39.6	21.97	57.52	-	-	P	V
			14499	38.25	-15.75	54	34.2	39.6	21.97	57.52	-	-	A	V
		17535	56.95	-51.25	108.2	46.7	41.37	24.14	55.26	-	-	P	V	
		17714	51.66	-22.34	74	41.04	41.51	24.29	55.18	-	-	P	V	
		17714	41.27	-12.73	54	30.65	41.51	24.29	55.18	-	-	A	V	
													V	



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE20 Full CH 173 5865MHz		7510	54.34	-19.66	74	39.92	35.68	14.22	35.48	400	354	P	H	
		7510	44.38	-9.62	54	29.96	35.68	14.22	35.48	400	354	A	H	
		11730	45.65	-28.35	74	44.17	38.5	19.52	56.54	-	-	P	H	
		13380	48.44	-25.56	74	46.27	39.04	21.07	57.94	-	-	P	H	
		13380	38.37	-15.63	54	36.2	39.04	21.07	57.94	-	-	A	H	
		14499	48.08	-25.92	74	44.03	39.6	21.97	57.52	-	-	P	H	
		14499	38.47	-15.53	54	34.42	39.6	21.97	57.52	-	-	A	H	
		17595	50.8	-57.4	108.2	40.36	41.49	24.19	55.24	-	-	P	H	
		17747	52.65	-21.35	74	41.96	41.55	24.31	55.17	-	-	P	H	
		17747	41.54	-12.46	54	30.85	41.55	24.31	55.17	-	-	A	H	
													H	
													H	
			7314	54.17	-19.83	74	39.95	35.66	14.02	35.46	396	251	P	V
			7314	44.28	-9.72	54	30.06	35.66	14.02	35.46	396	251	A	V
			11730	50.1	-23.9	74	48.62	38.5	19.52	56.54	302	186	P	V
			11730	42.21	-11.79	54	40.73	38.5	19.52	56.54	302	186	A	V
			13369	48.58	-25.42	74	46.4	39.06	21.06	57.94	-	-	P	V
			13369	38.69	-15.31	54	36.51	39.06	21.06	57.94	-	-	A	V
			14499	48.14	-25.86	74	44.09	39.6	21.97	57.52	-	-	P	V
			14499	38.18	-15.82	54	34.13	39.6	21.97	57.52	-	-	A	V
		17595	53.43	-54.77	108.2	42.99	41.49	24.19	55.24	-	-	P	V	
		17956	52.01	-21.99	74	41.13	41.46	24.49	55.07	-	-	P	V	
		17956	42.13	-11.87	54	31.25	41.46	24.49	55.07	-	-	A	V	
													V	



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE20 Full CH 177 5885MHz		7398	54.72	-19.28	74	40.17	35.9	14.12	35.47	348	44	P	H	
		7398	44.82	-9.18	54	30.27	35.9	14.12	35.47	348	44	A	H	
		11770	46.55	-27.45	74	44.97	38.5	19.56	56.48	-	-	P	H	
		13369	48.12	-25.88	74	45.94	39.06	21.06	57.94	-	-	P	H	
		13369	37.96	-16.04	54	35.78	39.06	21.06	57.94	-	-	A	H	
		14499	48.3	-25.7	74	44.25	39.6	21.97	57.52	-	-	P	H	
		14499	38.12	-15.88	54	34.07	39.6	21.97	57.52	-	-	A	H	
		17655	51.55	-56.65	108.2	41.03	41.5	24.23	55.21	-	-	P	H	
		17890	51.75	-22.25	74	41.01	41.42	24.42	55.1	-	-	P	H	
		17890	41.48	-12.52	54	30.74	41.42	24.42	55.1	-	-	A	H	
													H	
													H	
			7335	54.21	-19.79	74	39.88	35.74	14.05	35.46	392	239	P	V
			7335	44.26	-9.74	54	29.93	35.74	14.05	35.46	392	239	A	V
			11770	52.21	-21.79	74	50.63	38.5	19.56	56.48	215	188	P	V
			11770	43.6	-10.4	54	42.02	38.5	19.56	56.48	215	188	A	V
			13369	48.29	-25.71	74	46.11	39.06	21.06	57.94	-	-	P	V
			13369	38.11	-15.89	54	35.93	39.06	21.06	57.94	-	-	A	V
			14499	48.61	-25.39	74	44.56	39.6	21.97	57.52	-	-	P	V
			14499	38.39	-15.61	54	34.34	39.6	21.97	57.52	-	-	A	V
		17655	53.52	-54.68	108.2	43	41.5	24.23	55.21	-	-	P	V	
		17901	52.01	-21.99	74	41.28	41.4	24.43	55.1	-	-	P	V	
		17901	41.74	-12.26	54	31.01	41.4	24.43	55.1	-	-	A	V	
													V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. The emission level close to 18GHz is checked that the average emission level is noise floor only. 													



UNII- 4 5850~5895MHz
WIFI 802.11ax HE40_Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		5646	52.54	-15.66	68.2	40.73	34.7	12.26	35.15	389	0	P	H
		5695.25	54.66	-47.04	101.7	42.66	34.88	12.28	35.16	389	0	P	H
		5719.25	55.62	-54.97	110.59	43.47	35.02	12.29	35.16	389	0	P	H
		5720.75	57.06	-55.45	112.51	44.91	35.02	12.29	35.16	389	0	P	H
	*	5835	111	-	-	98.6	35.2	12.38	35.18	389	0	P	H
	*	5835	102.7	-	-	90.3	35.2	12.38	35.18	389	0	A	H
		7307	54.8	-19.2	74	40.62	35.63	14.01	35.46	389	0	P	H
		7307	44.86	-9.14	54	30.68	35.63	14.01	35.46	389	0	A	H
		5896.8	65.33	-63.55	128.88	52.85	35.2	12.47	35.19	389	0	P	H
		5927	58.8	-49.4	108.2	46.34	35.15	12.51	35.2	389	0	P	H
802.11ax		5895.2	54.95	-55.1	110.05	42.47	35.2	12.47	35.19	389	0	A	H
HE40 Full		5925	47.58	-40.62	88.2	35.12	35.15	12.51	35.2	389	0	A	H
CH 167		5647.25	56.57	-11.63	68.2	44.76	34.7	12.26	35.15	400	253	P	V
5835MHz		5698	66.23	-37.5	103.73	54.22	34.89	12.28	35.16	400	253	P	V
		5713.25	64.77	-44.14	108.91	52.66	34.98	12.29	35.16	400	253	P	V
		5721	63.78	-49.3	113.08	51.62	35.03	12.29	35.16	400	253	P	V
	*	5835	118.5	-	-	106.1	35.2	12.38	35.18	400	253	P	V
	*	5835	110.5	-	-	98.1	35.2	12.38	35.18	400	253	A	V
		7664	54.76	-19.24	74	40.39	35.63	14.32	35.58	400	253	P	V
		7664	44.78	-9.22	54	30.41	35.63	14.32	35.58	400	253	A	V
		5896.4	72.59	-56.58	129.17	60.11	35.2	12.47	35.19	400	253	P	V
		5926	64.67	-43.53	108.2	52.21	35.15	12.51	35.2	400	253	P	V
		5895.2	60.69	-49.36	110.05	48.21	35.2	12.47	35.19	400	253	A	V
		5930.4	52.56	-35.64	88.2	40.1	35.14	12.52	35.2	400	253	A	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 175 5875MHz		5607.67	49.8	-18.4	68.2	38	34.7	12.24	35.14	386	0	P	H
		5684.37	50.5	-43.17	93.67	38.54	34.84	12.28	35.16	386	0	P	H
		5719.475	48.76	-61.89	110.65	36.61	35.02	12.29	35.16	386	0	P	H
		5720.36	48.62	-63	111.62	36.47	35.02	12.29	35.16	386	0	P	H
	*	5875	111.32	-	-	98.87	35.2	12.44	35.19	386	0	P	H
	*	5875	103.61	-	-	91.16	35.2	12.44	35.19	386	0	A	H
		7286	55.07	-18.93	74	40.97	35.57	13.99	35.46	386	0	P	H
		7286	45.14	-8.86	54	31.04	35.57	13.99	35.46	386	0	A	H
		5896	86.18	-43.28	129.46	73.7	35.2	12.47	35.19	386	0	P	H
		5925.8	69.44	-38.76	108.2	56.98	35.15	12.51	35.2	386	0	P	H
		5895	79.72	-30.48	110.2	67.24	35.2	12.47	35.19	386	0	A	H
		5925	60.65	-27.55	88.2	48.19	35.15	12.51	35.2	386	0	A	H
		5625.665	50.38	-17.82	68.2	38.57	34.7	12.25	35.14	353	242	P	V
		5691.745	51.72	-47.39	99.11	39.73	34.87	12.28	35.16	353	242	P	V
		5700.3	51.84	-53.44	105.28	39.81	34.9	12.29	35.16	353	242	P	V
		5723.605	52.89	-66.13	119.02	40.71	35.04	12.3	35.16	353	242	P	V
	*	5875	118.72	-	-	106.27	35.2	12.44	35.19	353	242	P	V
	*	5875	111.15	-	-	98.7	35.2	12.44	35.19	353	242	A	V
		7370	54.33	-19.67	74	39.87	35.84	14.09	35.47	353	242	P	V
		7370	44.43	-9.57	54	29.97	35.84	14.09	35.47	353	242	A	V
	5895.2	94.13	-35.92	130.05	81.65	35.2	12.47	35.19	353	242	P	V	
	5925.6	76.42	-31.78	108.2	63.96	35.15	12.51	35.2	353	242	P	V	
	5895	88.42	-21.78	110.2	75.94	35.2	12.47	35.19	353	242	A	V	
	5925	67.06	-21.14	88.2	54.6	35.15	12.51	35.2	353	242	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII- 4 5850~5895MHz
WIFI 802.11ax HE40_Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE40 Full CH 167 5835MHz		7307	54.8	-19.2	74	40.62	35.63	14.01	35.46	389	0	P	H	
		7307	44.86	-9.14	54	30.68	35.63	14.01	35.46	389	0	A	H	
		11670	46.6	-27.4	74	45.31	38.44	19.47	56.62	-	-	P	H	
		13391	47.28	-26.72	74	45.12	39.02	21.08	57.94	-	-	P	H	
		14499	48.23	-25.77	74	44.18	39.6	21.97	57.52	-	-	P	H	
		14499	38.29	-15.71	54	34.24	39.6	21.97	57.52	-	-	A	H	
		17505	50.6	-57.6	108.2	40.45	41.31	24.12	55.28	-	-	P	H	
		17747	51.21	-22.79	74	40.52	41.55	24.31	55.17	-	-	P	H	
		17747	41.23	-12.77	54	30.54	41.55	24.31	55.17	-	-	A	H	
														H
														H
														H
			7664	54.76	-19.24	74	40.39	35.63	14.32	35.58	400	253	P	V
			7664	44.78	-9.22	54	30.41	35.63	14.32	35.58	400	253	A	V
			11670	46.74	-27.26	74	45.45	38.44	19.47	56.62	-	-	P	V
			13369	46.97	-27.03	74	44.79	39.06	21.06	57.94	-	-	P	V
			14499	47.95	-26.05	74	43.9	39.6	21.97	57.52	-	-	P	V
			17505	53.34	-54.86	108.2	43.19	41.31	24.12	55.28	-	-	P	V
			17802	52.46	-21.54	74	41.64	41.6	24.36	55.14	-	-	P	V
			17802	42.58	-11.42	54	31.76	41.6	24.36	55.14	-	-	A	V
													V	
													V	
													V	
													V	



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		7286	55.07	-18.93	74	40.97	35.57	13.99	35.46	386	0	P	H
		7286	45.14	-8.86	54	31.04	35.57	13.99	35.46	386	0	A	H
		11750	45.38	-28.62	74	43.85	38.5	19.54	56.51	-	-	P	H
		13369	47.98	-26.02	74	45.8	39.06	21.06	57.94	-	-	P	H
		14499	48.36	-25.64	74	44.31	39.6	21.97	57.52	-	-	P	H
		14499	38.43	-15.57	54	34.38	39.6	21.97	57.52	-	-	A	H
		17625	50.07	-58.13	108.2	39.58	41.5	24.21	55.22	-	-	P	H
		17934	51.42	-22.58	74	40.6	41.43	24.47	55.08	-	-	P	H
		17934	41.49	-12.51	54	30.67	41.43	24.47	55.08	-	-	A	H
													H
													H
802.11ax													H
HE40 Full													H
CH 175		7370	54.33	-19.67	74	39.87	35.84	14.09	35.47	353	242	P	V
5875MHz		7370	44.43	-9.57	54	29.97	35.84	14.09	35.47	353	242	A	V
		11750	49.72	-24.28	74	48.19	38.5	19.54	56.51	297	194	P	V
		11750	40.52	-13.48	54	38.99	38.5	19.54	56.51	297	194	A	V
		13369	47.18	-26.82	74	45	39.06	21.06	57.94	-	-	P	V
		14499	49.19	-24.81	74	45.14	39.6	21.97	57.52	-	-	P	V
		14499	39.29	-14.71	54	35.24	39.6	21.97	57.52	-	-	A	V
		17625	50.66	-57.54	108.2	40.17	41.5	24.21	55.22	-	-	P	V
		17813	51.4	-22.6	74	40.6	41.57	24.37	55.14	-	-	P	V
		17813	41.46	-12.54	54	30.66	41.57	24.37	55.14	-	-	A	V
													V
													V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. The emission level close to 18GHz is checked that the average emission level is noise floor only. 												



UNII- 4 5850~5895MHz
WIFI 802.11ax HE80_Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 171 5855MHz		5631.565	50.08	-18.12	68.2	38.28	34.7	12.25	35.15	389	54	P	H
		5689.09	55.81	-41.34	97.15	43.83	34.86	12.28	35.16	389	54	P	H
		5709.15	57.02	-50.74	107.76	44.94	34.95	12.29	35.16	389	54	P	H
		5722.13	56.84	-58.82	115.66	44.68	35.03	12.29	35.16	389	54	P	H
	*	5855	108.1	-	-	95.67	35.2	12.41	35.18	389	54	P	H
	*	5855	98.83	-	-	86.4	35.2	12.41	35.18	389	54	A	H
		7405	54.1	-19.9	74	39.56	35.89	14.12	35.47	389	54	P	H
		7405	44.18	-9.82	54	29.64	35.89	14.12	35.47	389	54	A	H
		5895	85.48	-44.72	130.2	73	35.2	12.47	35.19	389	54	P	H
		5925	71.44	-36.76	108.2	58.98	35.15	12.51	35.2	389	54	P	H
		5895	72.77	-37.43	110.2	60.29	35.2	12.47	35.19	389	54	A	H
		5925	61.65	-26.55	88.2	49.19	35.15	12.51	35.2	389	54	A	H
		5642.48	56.19	-12.01	68.2	44.38	34.7	12.26	35.15	379	230	P	V
		5696.17	61.53	-40.85	102.38	49.53	34.88	12.28	35.16	379	230	P	V
		5720.065	64.67	-46.28	110.95	52.52	35.02	12.29	35.16	379	230	P	V
		5720.36	64.75	-46.87	111.62	52.6	35.02	12.29	35.16	379	230	P	V
	*	5855	116.21	-	-	103.78	35.2	12.41	35.18	379	230	P	V
	*	5855	96.32	-	-	83.89	35.2	12.41	35.18	379	230	A	V
		7699	54.45	-19.55	74	40.04	35.7	14.32	35.61	379	230	P	V
		7699	44.52	-9.48	54	30.11	35.7	14.32	35.61	379	230	A	V
	5895.4	86.39	-43.52	129.91	73.91	35.2	12.47	35.19	379	230	P	V	
	5929.6	76.05	-32.15	108.2	63.59	35.14	12.52	35.2	379	230	P	V	
	5895	78.81	-31.39	110.2	66.33	35.2	12.47	35.19	379	230	A	V	
	5931.8	67.33	-20.87	88.2	54.87	35.14	12.52	35.2	379	230	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



UNII- 4 5850~5895MHz
WIFI 802.11ax HE80_Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE80 Full CH 171 5855MHz		7405	54.1	-19.9	74	39.56	35.89	14.12	35.47	389	54	P	H	
		7405	44.18	-9.82	54	29.64	35.89	14.12	35.47	389	54	A	H	
		11710	45.95	-28.05	74	44.5	38.5	19.51	56.56	-	-	P	H	
		13347	47.21	-26.79	74	45	39.11	21.04	57.94	-	-	P	H	
		14499	48.7	-25.3	74	44.65	39.6	21.97	57.52	-	-	P	H	
		14499	38.82	-15.18	54	34.77	39.6	21.97	57.52	-	-	A	H	
		17565	50.92	-57.28	108.2	40.58	41.43	24.16	55.25	-	-	P	H	
		17868	51.15	-22.85	74	40.39	41.46	24.41	55.11	-	-	P	H	
		17868	41.19	-12.81	54	30.43	41.46	24.41	55.11	-	-	A	H	
														H
														H
														H
			7699	54.45	-19.55	74	40.04	35.7	14.32	35.61	379	230	P	V
			7699	44.52	-9.48	54	30.11	35.7	14.32	35.61	379	230	A	V
			11710	46.31	-27.69	74	44.86	38.5	19.51	56.56	-	-	P	V
			13399	47.26	-26.74	74	45.12	39	21.09	57.95	-	-	P	V
			14499	48.44	-25.56	74	44.39	39.6	21.97	57.52	-	-	P	V
			14499	38.51	-15.49	54	34.46	39.6	21.97	57.52	-	-	A	V
			17565	50.65	-57.55	108.2	40.31	41.43	24.16	55.25	-	-	P	V
			17780	51.4	-22.6	74	40.63	41.58	24.34	55.15	-	-	P	V
		17780	41.49	-12.51	54	30.72	41.58	24.34	55.15	-	-	A	V	
													V	
													V	
													V	

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.
- The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
- The emission level close to 18GHz is checked that the average emission level is noise floor only.



**UNII- 4 5850~5895MHz
WIFI 802.11ax HE160_Full (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Full CH 163 5815MHz		5647.2	59.46	-8.74	68.2	47.65	34.7	12.26	35.15	376	1	P	H
		5694.4	62.39	-38.68	101.07	50.39	34.88	12.28	35.16	376	1	P	H
		5703.545	62.63	-43.56	106.19	50.58	34.92	12.29	35.16	376	1	P	H
		5725.08	61.94	-98.06	160	49.75	35.05	12.3	35.16	376	1	P	H
	*	5815	102.11	-	-	89.74	35.2	12.35	35.18	376	1	P	H
	*	5815	95.17	-	-	82.8	35.2	12.35	35.18	376	1	A	H
		7713	54.25	-19.75	74	39.78	35.75	14.33	35.61	376	1	P	H
		7713	44.31	-9.69	54	29.84	35.75	14.33	35.61	376	1	A	H
		5895	72.44	-57.76	130.2	59.96	35.2	12.47	35.19	376	1	P	H
		5938.6	57.47	-50.73	108.2	45.02	35.12	12.53	35.2	376	1	P	H
		5895	61.59	-48.61	110.2	49.11	35.2	12.47	35.19	376	1	A	H
		5928	48.56	-39.64	88.2	36.1	35.14	12.52	35.2	376	1	A	H
		5649.855	66.33	-1.87	68.2	54.52	34.7	12.26	35.15	368	218	P	V
		5698.235	68.69	-35.21	103.9	56.68	34.89	12.28	35.16	368	218	P	V
		5710.92	69.52	-38.74	108.26	57.42	34.97	12.29	35.16	368	218	P	V
		5720.36	67.57	-44.05	111.62	55.42	35.02	12.29	35.16	368	218	P	V
	*	5815	109.11	-	-	96.74	35.2	12.35	35.18	298	237	P	V
	*	5815	102.32	-	-	89.95	35.2	12.35	35.18	298	237	A	V
		7692	54.82	-19.18	74	40.42	35.68	14.32	35.6	298	237	P	V
		7692	44.87	-9.13	54	30.47	35.68	14.32	35.6	298	237	A	V
	5895	80.41	-49.79	130.2	67.93	35.2	12.47	35.19	298	237	P	V	
	5932.2	65.16	-43.04	108.2	52.7	35.14	12.52	35.2	298	237	P	V	
	5895	69.51	-40.69	110.2	57.03	35.2	12.47	35.19	298	237	A	V	
	5932.6	55.92	-32.28	88.2	43.47	35.13	12.52	35.2	298	237	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission above 18GHz

5GHz WIFI 802.11ax HE160 Full (SHF @ 1m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE160 Full SHF		39846	45.39	-28.61	74	44.53	44.6	14.77	58.51	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
			39846	46.03	-27.97	74	45.17	44.6	14.77	58.51	-	-	P
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												



Emission below 1GHz

5GHz WIFI 802.11ax HE160 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE160 Full LF		31.62	25.7	-14.3	40	31.29	23.52	0.99	30.1	-	-	P	H	
		58.08	26.83	-13.17	40	43.72	11.87	1.28	30.04	-	-	P	H	
		125.04	33.18	-10.32	43.5	43.65	17.52	1.94	29.93	-	-	P	H	
		734	33.38	-12.62	46	30.94	27.17	4.74	29.47	-	-	P	H	
		883.8	33.53	-12.47	46	28.41	28.66	5.35	28.89	-	-	P	H	
		955.9	34.61	-11.39	46	27.08	30.59	5.57	28.63	-	-	P	H	
														H
														H
														H
														H
														H
														H
														H
			30.54	33.18	-6.82	40	38.12	24.17	1	30.11	100	9	Q	V
			57.54	31.5	-8.5	40	48.25	12.01	1.28	30.04	100	177	Q	V
			125.04	34.63	-8.87	43.5	45.1	17.52	1.94	29.93	-	-	P	V
			740.3	36.05	-9.95	46	33.3	27.44	4.76	29.45	-	-	P	V
			921.6	33.6	-12.4	46	27.87	28.97	5.5	28.74	-	-	P	V
			957.3	34.59	-11.41	46	26.97	30.67	5.58	28.63	-	-	P	V
														V
													V	
													V	
													V	
													V	
													V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against limit line. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only. 													



Note symbol

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



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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a		11690	50.71	-23.29	74	49.34	38.48	19.48	56.59	296	188	P	V
CH 169		11690	42.92	-11.08	54	41.55	38.48	19.48	56.59	296	188	A	V
5845MHz													

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

For Peak Limit @ 11690MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 38.48(dB/m) + 19.48(dB) + 49.34(dBμV) – 56.59 (dB)
= 50.71 (dBμV/m)
2. Margin(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 50.71(dBμV/m) – 74(dBμV/m)
= -23.29 (dB)

For Average Limit @ 11690MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 38.48(dB/m) + 19.48(dB) + 41.55(dBμV) – 56.59 (dB)
= 42.92 (dBμV/m)
2. Margin (dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 42.92(dBμV/m) – 54(dBμV/m)
= --11.08(dB)

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



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	Temperature :	23.6~27.5°C
		Relative Humidity :	55.6~61.8%

Note symbol

-L	Low channel location
-R	High channel location



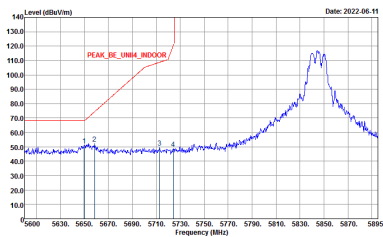
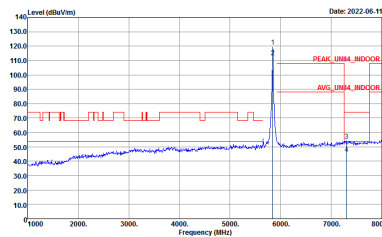
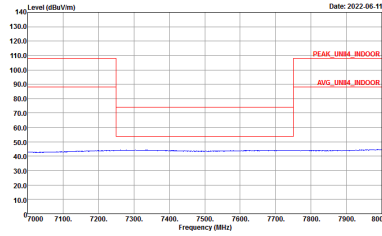
UNII-4 - 5850~5895MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz - L	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH07-HY Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 1</p>	<p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 1</p>
Avg.	Left blank	<p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 1</p>

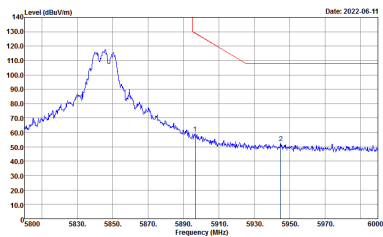
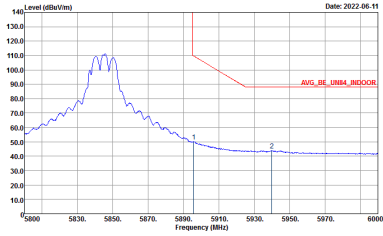


WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz - R	
1+2	Horizontal	Fundamental
<p>Peak</p>	<p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 1</p>	<p>Left blank</p>
<p>Avg.</p>	<p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 1</p>	<p>Left blank</p>

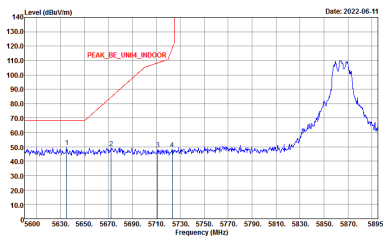
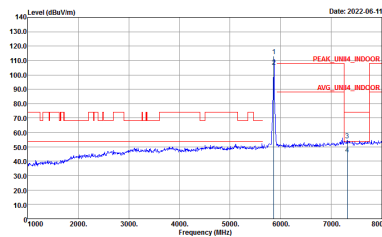
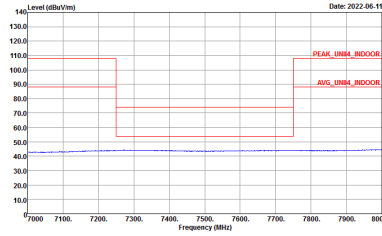


WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_UNIH4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 1</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNIH4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 1</p>
Avg.	Left blank	 <p>Site : 03CH07-HY Condition : AVG_UNIH4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 1</p>



WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH169 5845MHz - R	
1+2	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 1</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 1</p>	<p>Left blank</p>

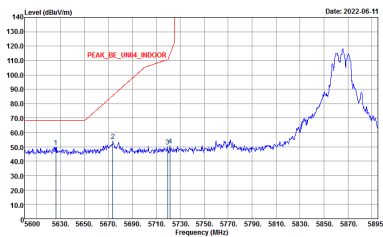
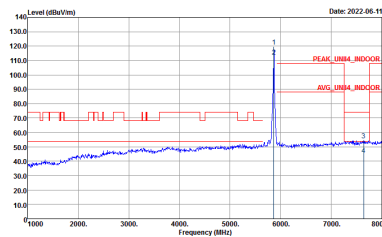
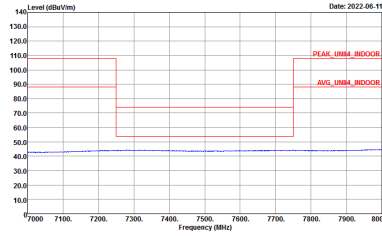


WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_UNIH4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 2</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNIH4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 2</p>
Avg.	Left blank	 <p>Site : 03CH07-HY Condition : AVG_UNIH4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 2</p>



WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz – R	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 2</p>	Left blank
Avg.	<p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 2</p>	Left blank

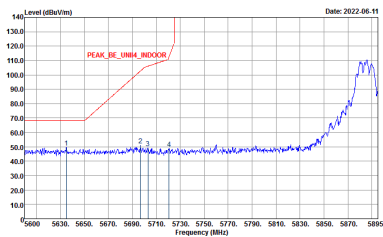
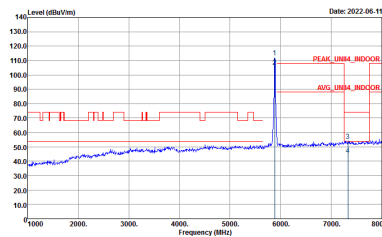
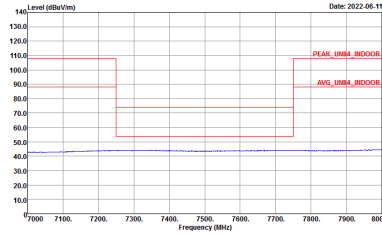


WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 2</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 2</p>
Avg.	Left blank	 <p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 2</p>

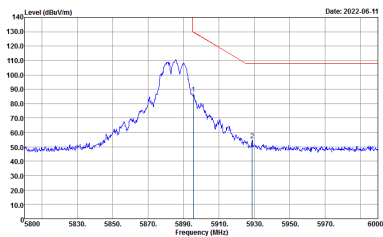
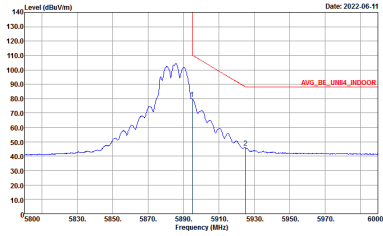


WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH173 5865MHz – R	
1+2	Vertical	Fundamental
<p>Peak</p>	<p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 2</p>	<p>Left blank</p>
<p>Avg.</p>	<p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 2</p>	<p>Left blank</p>

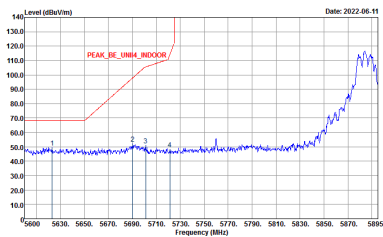
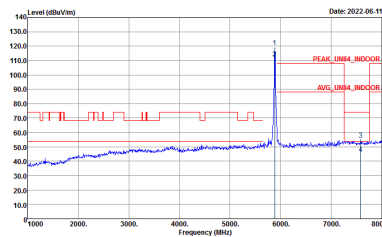
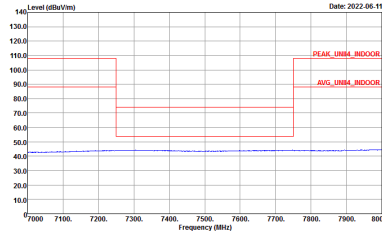


WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_UNI4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 3</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNI4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 3</p>
Avg.	Left blank	 <p>Site : 03CH07-HY Condition : AVG_UNI4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 3</p>

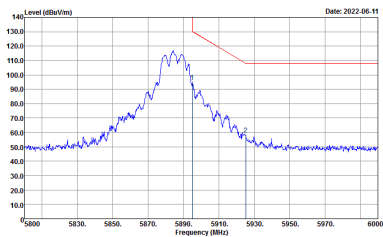
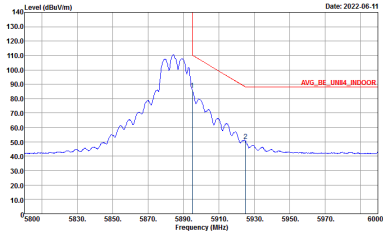


WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 3</p>	Left blank
Avg.	 <p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 3</p>	Left blank



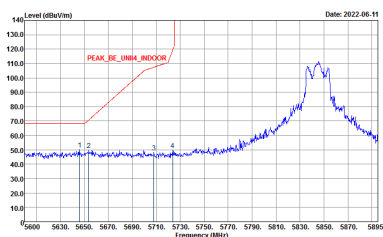
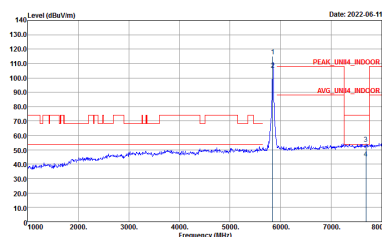
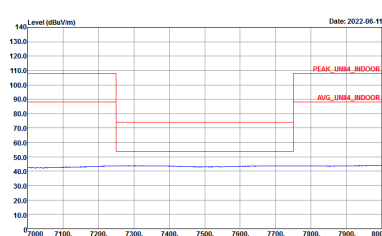
WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_UNIH4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 3</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNIH4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 3</p>
Avg.	Left blank	 <p>Site : 03CH07-HY Condition : AVG_UNIH4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 3</p>



WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11a CH177 5885MHz - R	
1+2	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 3</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 3</p>	<p>Left blank</p>



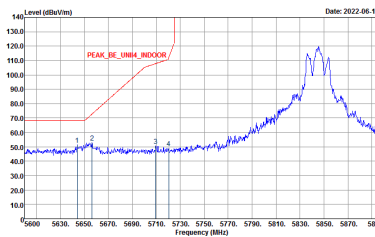
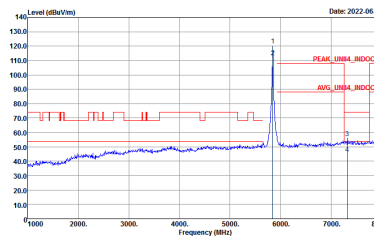
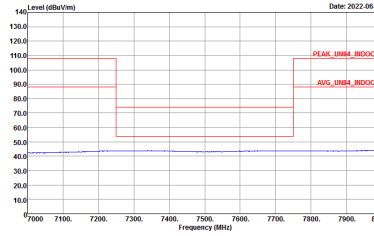
UNII-4 - 5850~5895MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH169 5845MHz - L	
1+2	Horizontal	Fundamental
<p align="center">Peak</p>	 <p>Site : 03CH07-HY Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWF:Auto Detector : Peak Project : 251805 Mode : 4</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWF:Auto Detector : Peak Project : 251805 Mode : 4</p>
<p align="center">Avg.</p>	<p align="center">Left blank</p>	 <p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWF:Auto Detector : Peak Project : 251805 Mode : 4</p>



WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH169 5845MHz - R	
1+2	Horizontal	Fundamental
<p>Peak</p>	<p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 4</p>	<p>Left blank</p>
<p>Avg.</p>	<p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 4</p>	<p>Left blank</p>

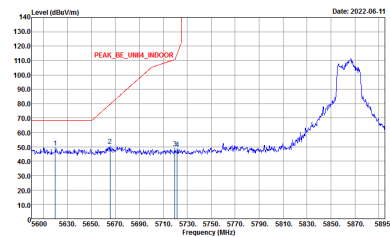
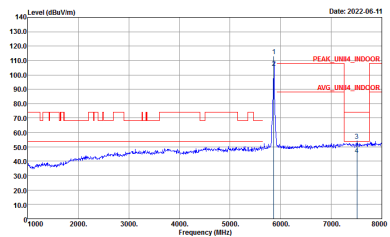
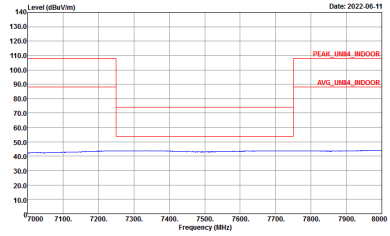


WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH169 5845MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 4</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 4</p>
Avg.	Left blank	 <p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 4</p>

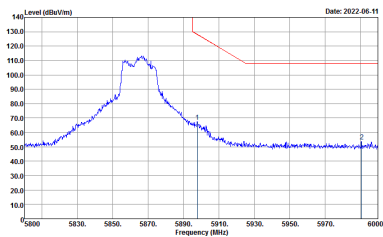
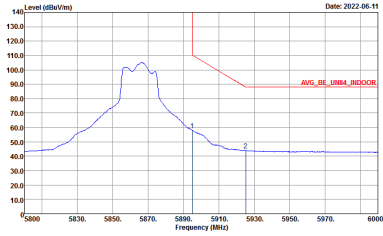


WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH169 5845MHz - R	
1+2	Vertical	Fundamental
<p>Peak</p>	<p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 4</p>	<p>Left blank</p>
<p>Avg.</p>	<p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 4</p>	<p>Left blank</p>



WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH173 5865MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_UNI4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 5</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNI4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 5</p>
Avg.	Left blank	 <p>Site : 03CH07-HY Condition : AVG_UNI4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 5</p>

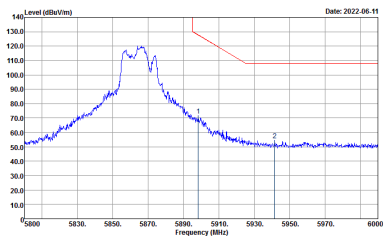
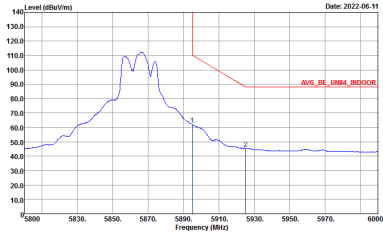


WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH173 5865MHz - R	
1+2	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : S</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : S</p>	<p>Left blank</p>

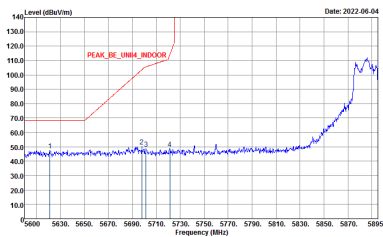
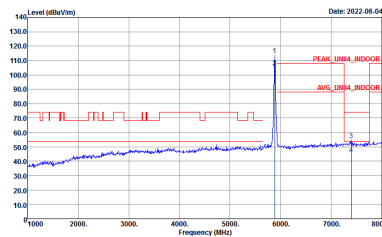
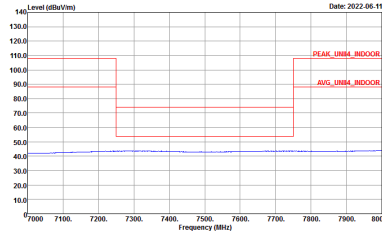


WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH173 5865MHz - L	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH07-HY Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 5</p>	<p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 5</p>
Avg.	Left blank	<p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 5</p>



WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH173 5865MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : S</p>	Left blank
Avg.	 <p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : S</p>	Left blank

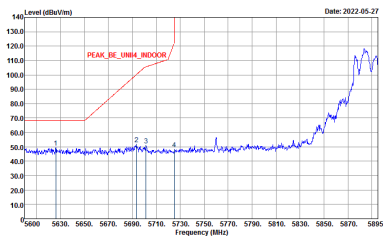
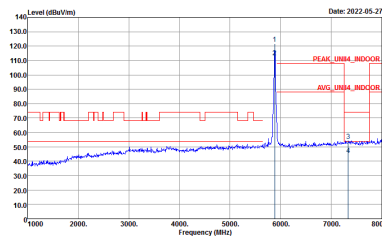
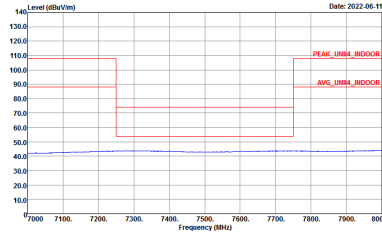


WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH177 5885MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 6</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 6</p>
Avg.	Left blank	 <p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 6</p>



WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH177 5885MHz - R	
1+2	Horizontal	Fundamental
<p>Peak</p>	<p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 6</p>	<p>Left blank</p>
<p>Avg.</p>	<p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 6</p>	<p>Left blank</p>



WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH177 5885MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_UNI4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 6</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNI4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 6</p>
Avg.	<p>Left blank</p>  <p>Site : 03CH07-HY Condition : AVG_UNI4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 6</p>	



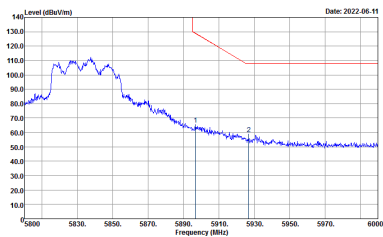
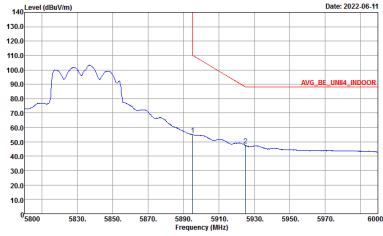
WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH177 5885MHz - R	
1+2	Vertical	Fundamental
<p>Peak</p>	<p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 6</p>	<p>Left blank</p>
<p>Avg.</p>	<p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 6</p>	<p>Left blank</p>



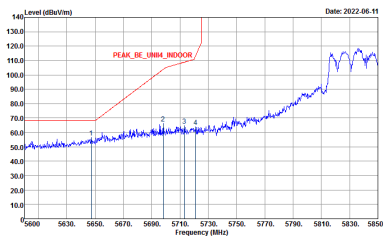
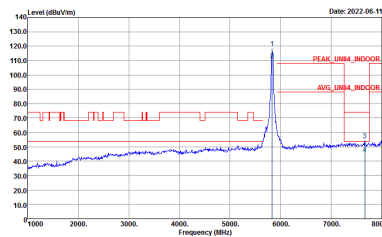
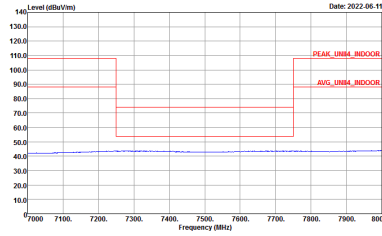
UNII-4 - 5850~5895MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH167 5835MHz - L	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH07-HY Condition : PEAK_BE_UNIH4_INDOOR 3m HE_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 251805 Mode : 7</p>	<p>Site : 03CH07-HY Condition : PEAK_UNIH4_INDOOR 3m HE_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 251805 Mode : 7</p>
Avg.	Left blank	
		<p>Site : 03CH07-HY Condition : AVG_UNIH4_INDOOR 3m HE_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 251805 Mode : 7</p>



WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH167 5835MHz - R	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 7</p>	Left blank
Avg.	 <p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 7</p>	Left blank

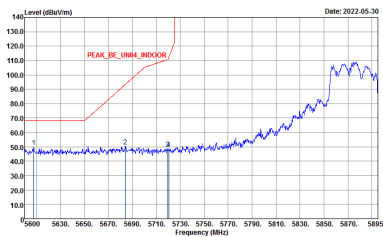
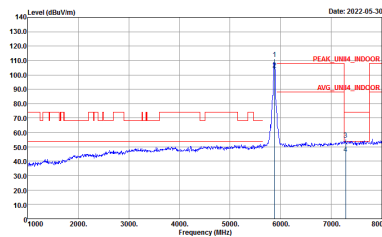
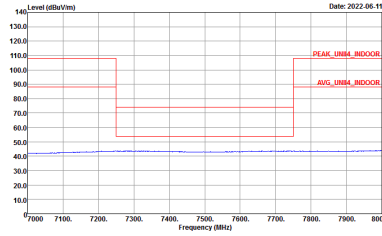


WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH167 5835MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 7</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 7</p>
Avg.	Left blank	 <p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 7</p>

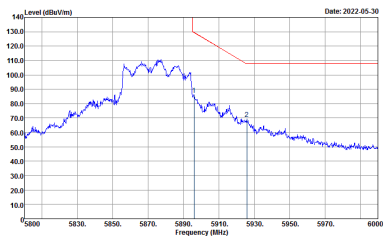
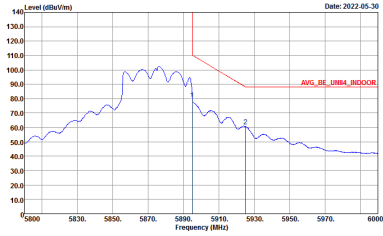


WIFI	UNII- 4 5850-5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH167 5835MHz - R	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 7</p>	Left blank
Avg.	<p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 7</p>	Left blank

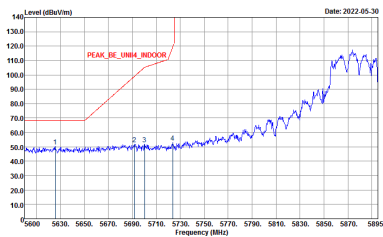
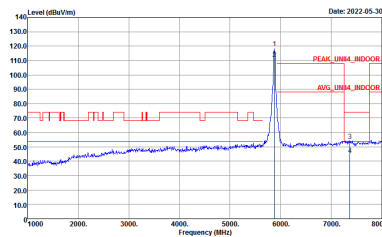
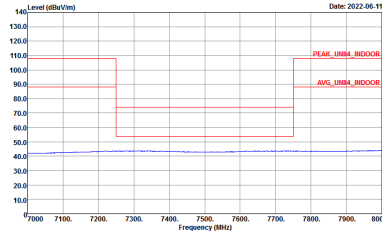


WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH175 5875MHz - L	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_UNI4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 8</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNI4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 8</p>
Avg.	Left blank	 <p>Site : 03CH07-HY Condition : AVG_UNI4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 8</p>


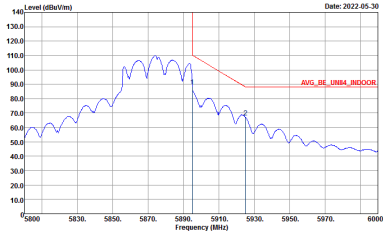


WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH175 5875MHz - R	
1+2	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 8</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 8</p>	<p>Left blank</p>



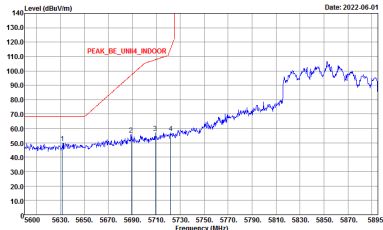
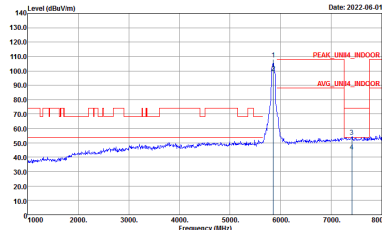
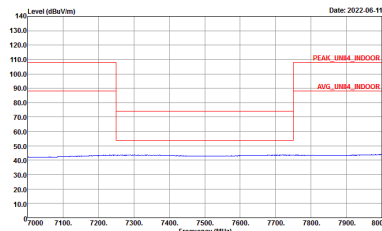
WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH175 5875MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 8</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 8</p>
Avg.	Left blank	 <p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 8</p>



WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH175 5875MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 8</p>	Left blank
Avg.	 <p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 8</p>	Left blank



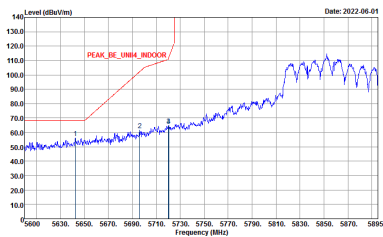
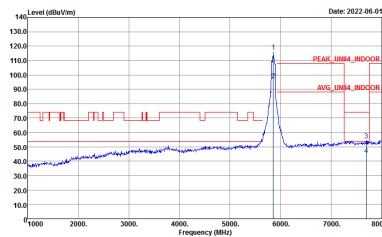
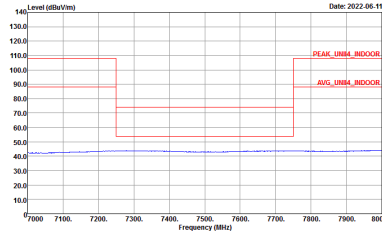
UNII-4 - 5850~5895MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH171 5855MHz - L	
1+2	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH07-HY Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 9</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 9</p>
<p>Avg.</p>	<p align="center">Left blank</p>	 <p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 9</p>

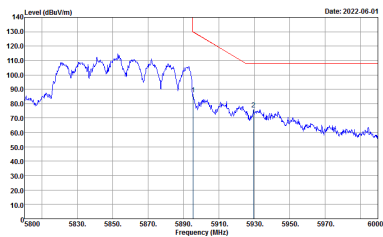
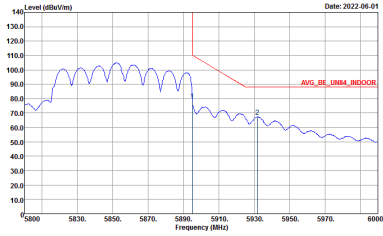


WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH171 5855MHz - R	
1+2	Horizontal	Fundamental
<p>Peak</p>	<p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 9</p>	<p>Left blank</p>
<p>Avg.</p>	<p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 9</p>	<p>Left blank</p>



WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH171 5855MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_UNI4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 9</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNI4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 9</p>
Avg.	Left blank	 <p>Site : 03CH07-HY Condition : AVG_UNI4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 9</p>



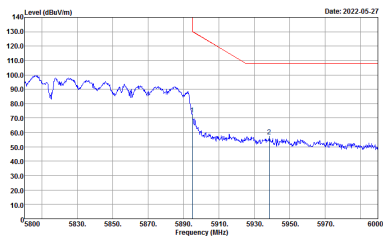
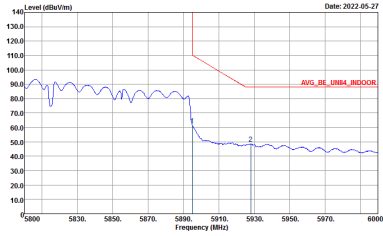
WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH171 5855MHz - R	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 9</p>	Left blank
Avg.	 <p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 9</p>	Left blank



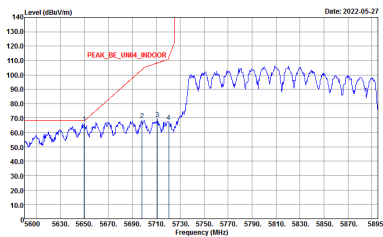
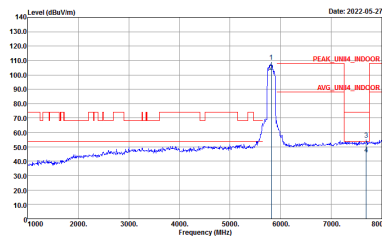
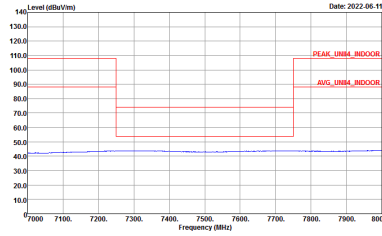
UNII-4 - 5850~5895MHz
WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH163 5815MHz - L	
1+2	Horizontal	Fundamental
<p align="center">Peak</p>	<p>Site : 03CH07-HY Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 251805 Mode : 10</p>	<p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 251805 Mode : 10</p>
<p align="center">Avg.</p>	<p align="center">Left blank</p>	<p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 251805 Mode : 10</p>



WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH163 5815MHz - R	
1+2	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 10</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 10</p>	<p>Left blank</p>



WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH163 5815MHz - L	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH07-HY Condition : PEAK_BE_UNIH4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 10</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNIH4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 10</p>
Avg.	Left blank	 <p>Site : 03CH07-HY Condition : AVG_UNIH4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 10</p>



WIFI	UNII- 4 5850~5895MHz Band Edge @ 3m	
ANT	802.11ax HE160 Full CH163 5815MHz - R	
1+2	Vertical	Fundamental
<p>Peak</p>	<p>Site : 03CH07-01 Condition : PEAK_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 10</p>	<p>Left blank</p>
<p>Avg.</p>	<p>Site : 03CH07-01 Condition : AVG_BE_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 10</p>	<p>Left blank</p>

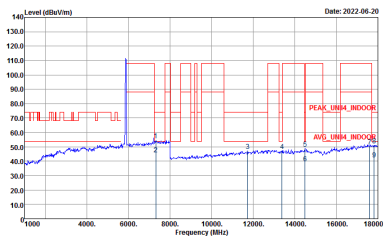
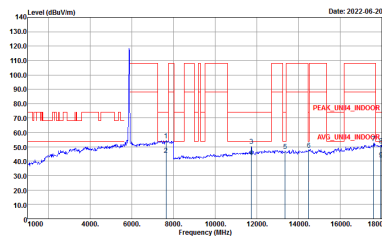
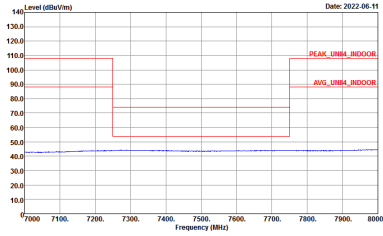
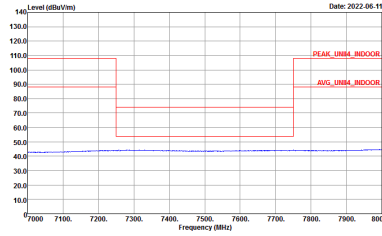


UNII-4 - 5850~5895MHz

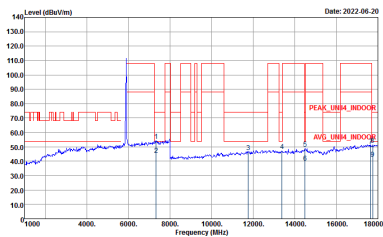
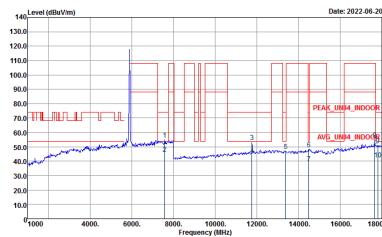
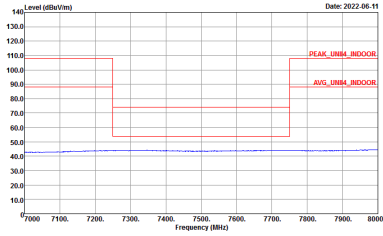
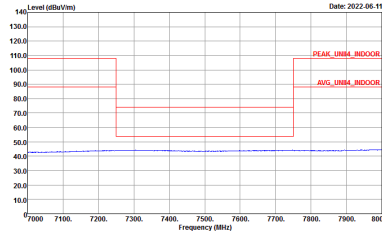
WIFI 802.11a (Harmonic @ 3m)

WIFI	UNII-4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11a CH169 5845MHz	
1+2	Horizontal	Vertical
Peak	<p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 1</p>	<p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 1</p>
Avg.	<p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 1</p>	<p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 1</p>



WIFI	UNII-4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11a CH173 5865MHz	
1+2	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 2</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 2</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 2</p>	 <p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 2</p>



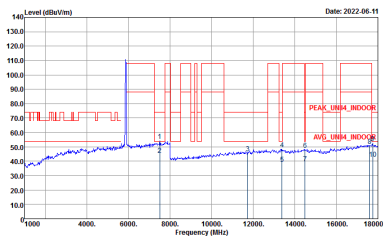
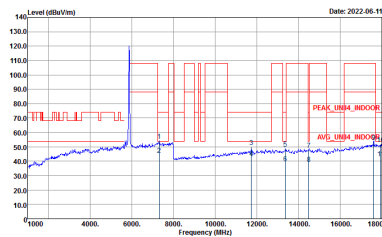
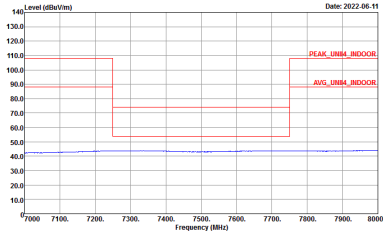
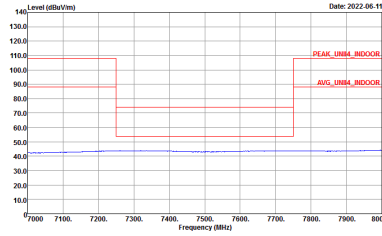
WIFI	UNII-4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11a CH177 5885MHz	
1+2	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 3</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 3</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 3</p>	 <p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 3</p>



UNII-4 - 5850~5895MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI	UNII-4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH169 5845MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH07-HY Condition : PEAK_UNIH4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 4</p>	<p>Site : 03CH07-HY Condition : PEAK_UNIH4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 4</p>
Avg.	<p>Site : 03CH07-HY Condition : AVG_UNIH4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 4</p>	<p>Site : 03CH07-HY Condition : AVG_UNIH4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 4</p>



WIFI	UNII-4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH173 5865MHz	
1+2	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : S</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : S</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : S</p>	 <p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : S</p>



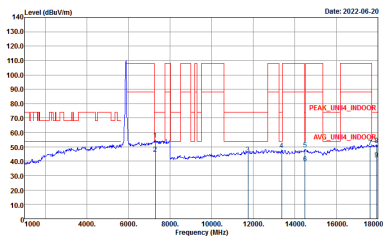
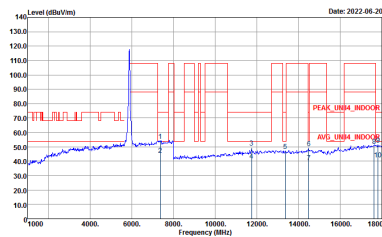
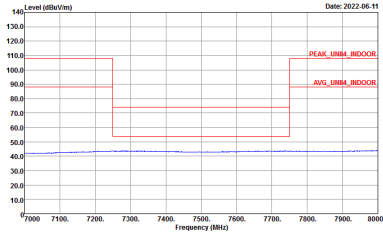
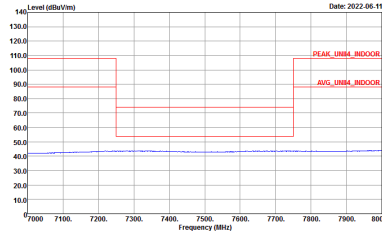
WIFI	UNII-4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH177 5885MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Date: 2022.06.12</p> <p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 6</p>	<p>Date: 2022.06.12</p> <p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 6</p>
Avg.	<p>Date: 2022.06.11</p> <p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 6</p>	<p>Date: 2022.06.11</p> <p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 6</p>



UNII-4 - 5850~5895MHz
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

WIFI	UNII-4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH167 5835MHz	
1+2	Horizontal	Vertical
<p>Peak Avg.</p>		
<p>Avg.</p>		



WIFI	UNII-4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH175 5875MHz	
1+2	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : S</p>	 <p>Site : 03CH07-HY Condition : PEAK_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : S</p>
Avg.	 <p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : S</p>	 <p>Site : 03CH07-HY Condition : AVG_UNII4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : S</p>



UNII-4 - 5850~5895MHz
WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI	UNII-4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH171 5855MHz	
1+2	Horizontal	Vertical
<p>Peak Avg.</p>	<p>Site : 03CH07-HY Condition : PEAK_UNIH4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 9</p>	<p>Site : 03CH07-HY Condition : PEAK_UNIH4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 9</p>
<p>Avg.</p>	<p>Site : 03CH07-HY Condition : AVG_UNIH4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 9</p>	<p>Site : 03CH07-HY Condition : AVG_UNIH4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 9</p>



UNII-4 - 5850~5895MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI	UNII-4 - 5850~5895MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH163 5815MHz	
1+2	Horizontal	Vertical
<p>Peak Avg.</p>	<p>Date: 2022-06-20</p> <p>Site : 03CH07-HY Condition : PEAK_UNIH4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 10</p>	<p>Date: 2022-06-20</p> <p>Site : 03CH07-HY Condition : PEAK_UNIH4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 10</p>
<p>Avg.</p>	<p>Date: 2022-06-11</p> <p>Site : 03CH07-HY Condition : AVG_UNIH4_INDOOR 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 251805 Mode : 10</p>	<p>Date: 2022-06-11</p> <p>Site : 03CH07-HY Condition : AVG_UNIH4_INDOOR 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 251805 Mode : 10</p>



Emission above 18GHz
5GHz WIFI 802.11ax HE160 Full (SHF @ 1m)

Table with 2 columns: Horizontal and Vertical. Each column contains a graph of Level (dBV/m) vs Frequency (MHz) and associated test parameters like Site, Condition, Detector, Project, and Mode.



Emission below 1GHz

5GHz WIFI 802.11ax HE160 Full (LF @ 3m)

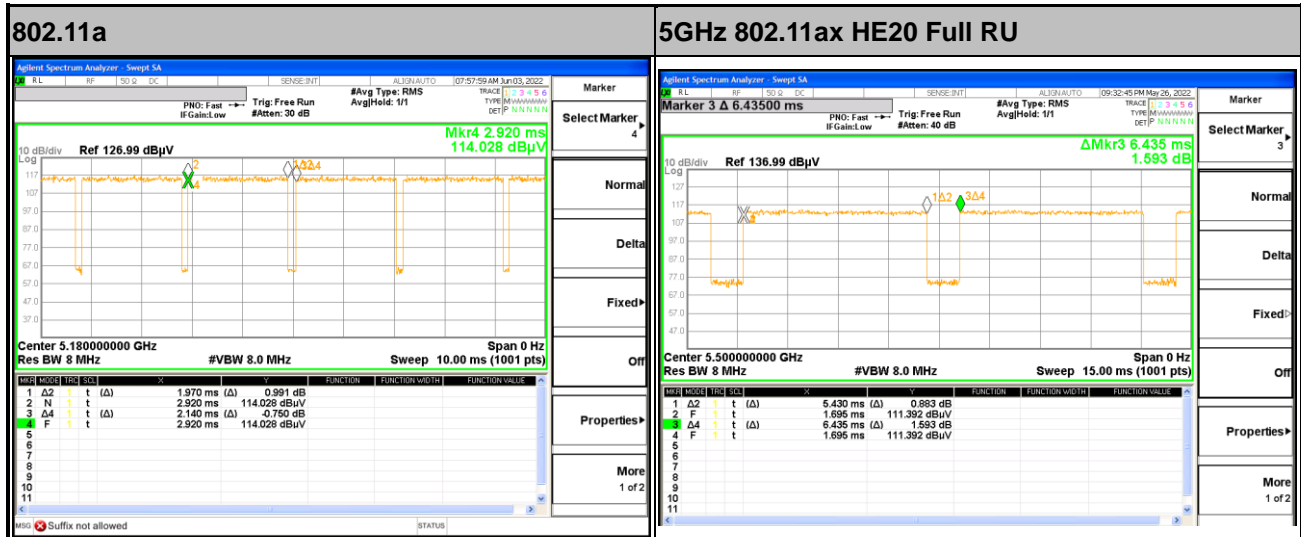
WIFI	5GHz WIFI	
ANT	802.11ax HE160 Full LF	
1+2	Horizontal	Vertical
QP / Peak	<p>Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) HORIZONTAL Detector : Peak Project : 251805 Mode : 11</p>	<p>Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6) VERTICAL Detector : Peak Project : 251805 Mode : 11</p>



Appendix E. Duty Cycle Plots

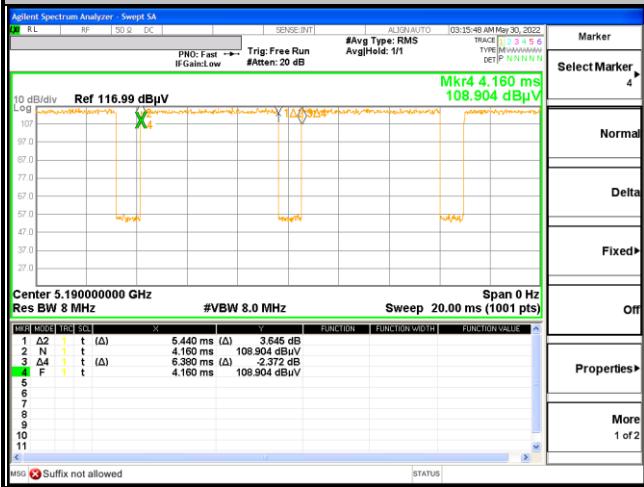
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+2	802.11a	92.06	1970	0.51	1kHz
1+2	5GHz 802.11ax HE20 Full RU	84.38	5430	0.18	300Hz
1+2	5GHz 802.11ax HE40 Full RU	85.27	5440	0.18	300Hz
1+2	5GHz 802.11ax HE80 Full RU	91.58	5440	0.18	300Hz
1+2	5GHz 802.11ax HE160 Full RU	90.27	5430	0.18	300Hz

MIMO <Ant. 1+2>

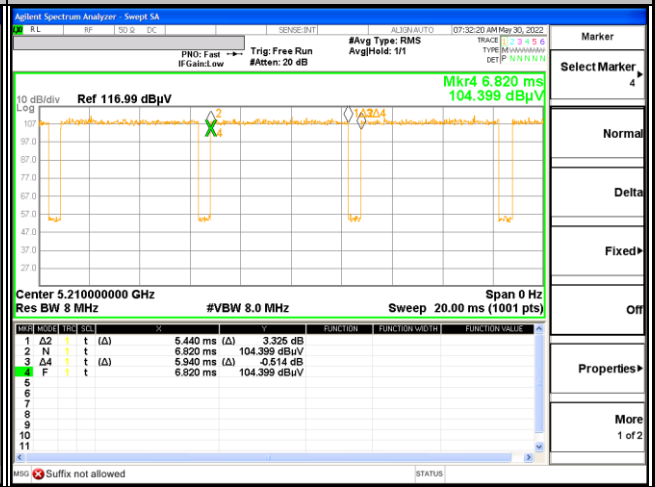




5GHz 802.11ax HE40 Full RU



5GHz 802.11ax HE80 Full RU



5GHz 802.11ax HE160 Full RU

