



# FCC RADIO TEST REPORT

**FCC ID** : 2AFZZJ3SG  
**Equipment** : Mobile Phone  
**Brand Name** : MI  
**Model Name** : M2007J3SG  
M2007J3SY  
**Applicant** : Xiaomi Communications Co., Ltd.  
#019, 9th Floor, Building 6, 33 Xi'erqi Middle  
Road, Haidian District, Beijing, China, 100085  
**Manufacturer** : Xiaomi Communications Co., Ltd.  
#019, 9th Floor, Building 6, 33 Xi'erqi Middle  
Road, Haidian District, Beijing, China, 100085  
**Standard** : FCC Part 15 Subpart E §15.407

The product was received on Jul. 27, 2020 and testing was started from Jul. 29, 2020 and completed on Aug. 18, 2020. 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, Taiwan (R.O.C.)



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### History of this test report

Report No.	Version	Description	Issued Date
FR072112F	01	Initial issue of report	Aug. 31, 2020



### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403 (i)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407 (a)	Maximum Conducted Output Power	Pass	-
3.3	15.407 (a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 9.58 dB at 30.000 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 19.31 dB at 0.501 MHz
3.6	15.407 (c)	Automatically Discontinue Transmission	Pass	-
3.7	15.203 & 15.407 (a)	Antenna Requirement	Pass	-

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Wii Chang**

**Report Producer: Cindy Liu**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

GSM/WCDMA/LTE/5G NR, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, NFC, and GNSS.

Product Feature	
Sample 1	Memory(8+256GB)
Sample 2	Memory(8+128GB)
Antenna Type	WWAN: <Ant 1> : PIFA Antenna <Ant 2> : PIFA Antenna WLAN: <Ant 4> : PIFA Antenna <Ant 5> : PIFA Antenna Bluetooth: <Ant 4> : PIFA Antenna <Ant 5> : PIFA Antenna GPS / Glonass / Galileo / SBAS: PIFA Antenna NFC: planar Antenna

Remark: All the test items were performed with Sample 1.

## 1.2 Modification of EUT

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



### 1.3 Testing Location

<b>Test Site</b>	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory		
<b>Test Site Location</b>	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978		
<b>Test Site No.</b>	<b>Sporton Site No.</b>		
	TH05-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.
- ♦ ANSI C63.10-2013

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.



## 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, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.
  
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

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

**Note:**

- 1. The above Frequency and Channel in "\*" were 802.11n HT40 and 802.11ac VHT40.
- 2. The above Frequency and Channel in "#n" were 802.11ac VHT80.



## 2.2 Test Mode

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

### MIMO Mode

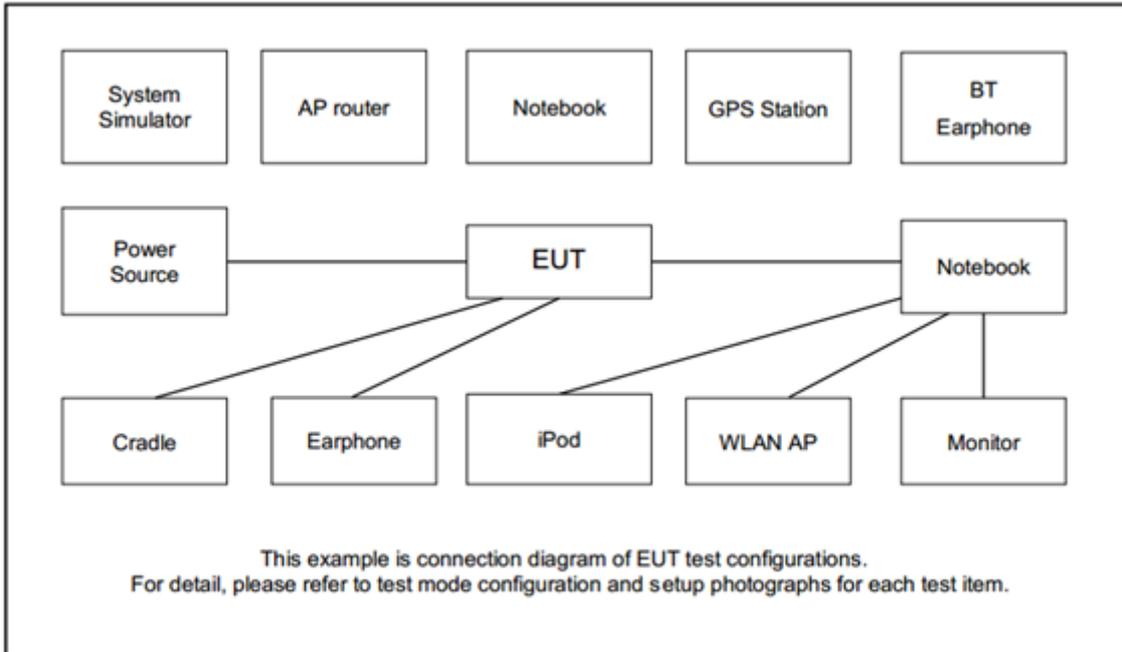
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20 (Covered by HE20)	MCS0
802.11n HT40 (Covered by HE40)	MCS0
802.11ac VHT20 (Covered by HE20)	MCS0
802.11ac VHT40 (Covered by HE40)	MCS0
802.11ac VHT80 (Covered by HE80)	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + USB Cable (Charging from AC Adapter)

Ch. #	Band IV : 5725-5825 MHz			
	802.11a	802.11ax HE20	802.11ax HE40	802.11ax HE80
L Low	149	149	151	-
M Middle	157	157	-	155
H High	161	161	159	-

**Remark:** For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

### 2.3 Connection Diagram of Test System



### 2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	8820C	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Latitude E6320	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 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 10dB 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.

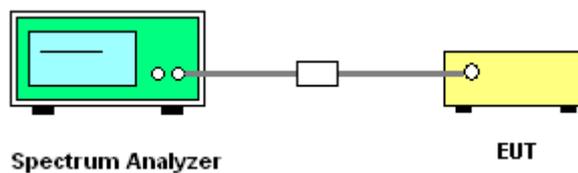
##### 3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

##### 3.1.3 Test Procedures

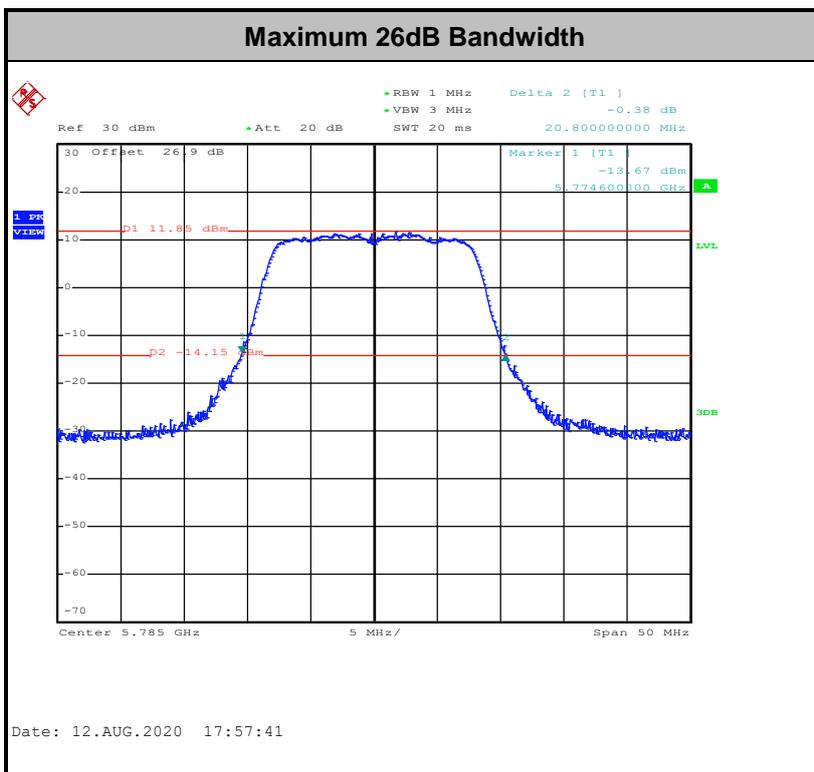
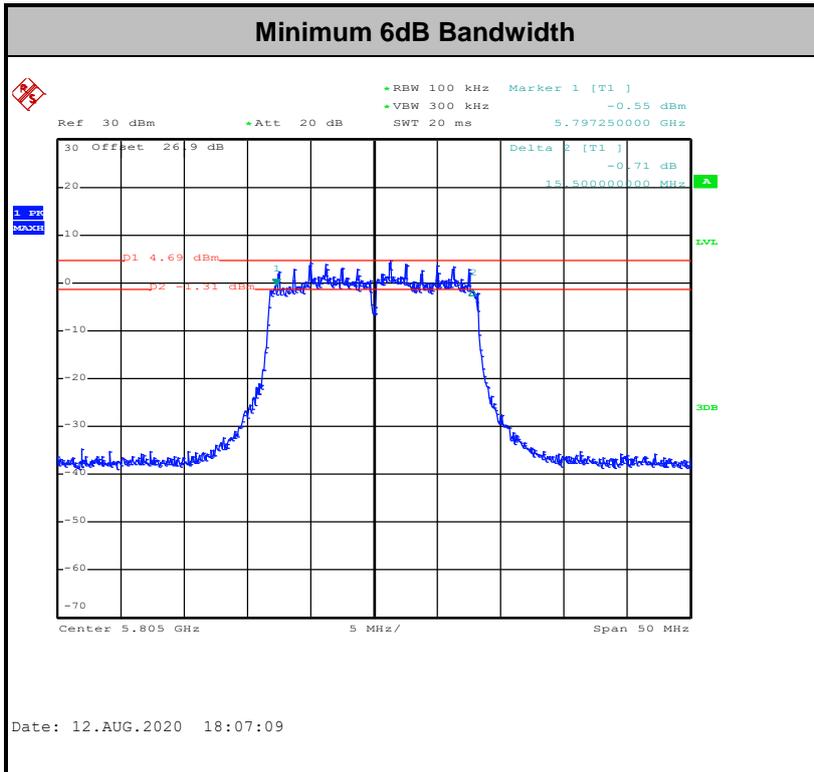
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW  $\geq 3 \times$  RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

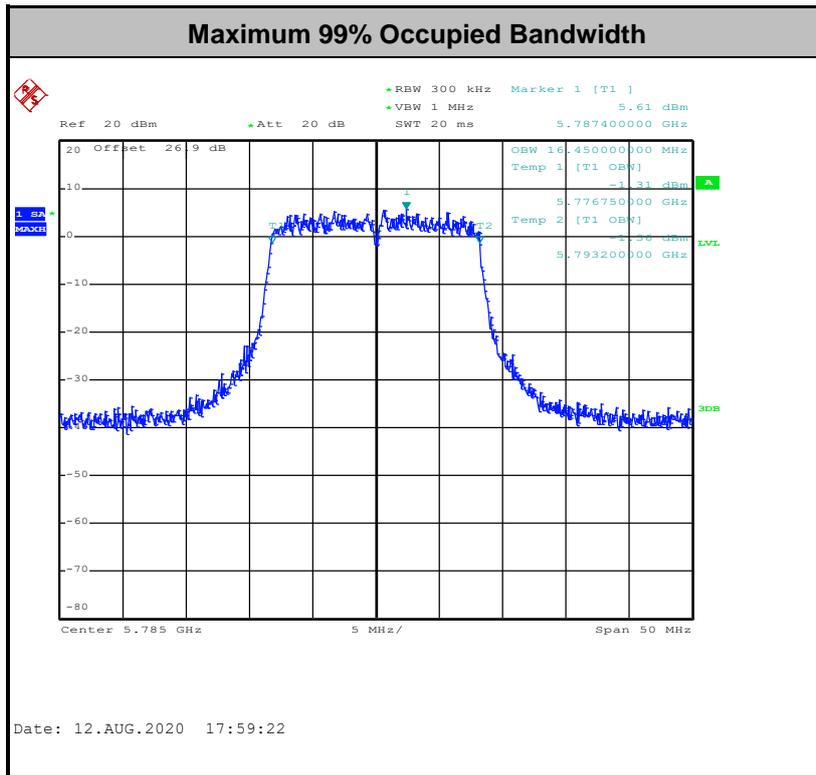
##### 3.1.4 Test Setup



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

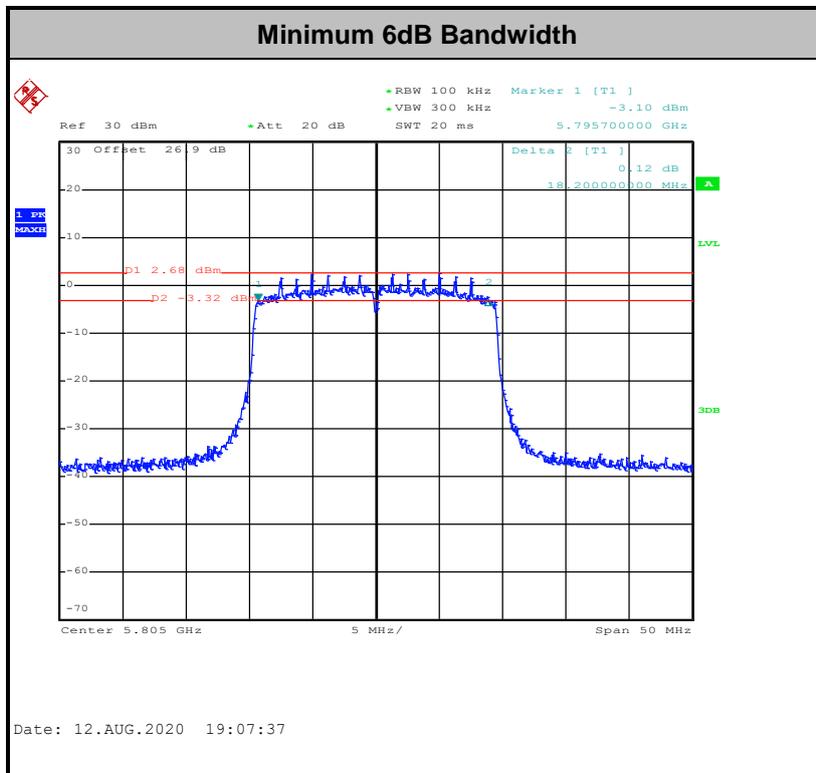
Please refer to Appendix A.

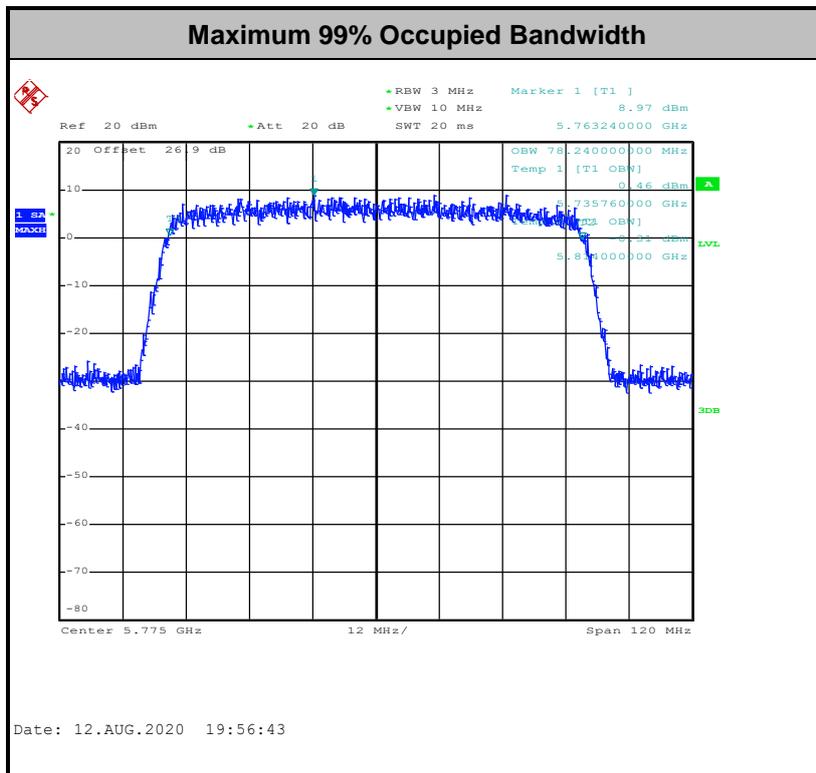
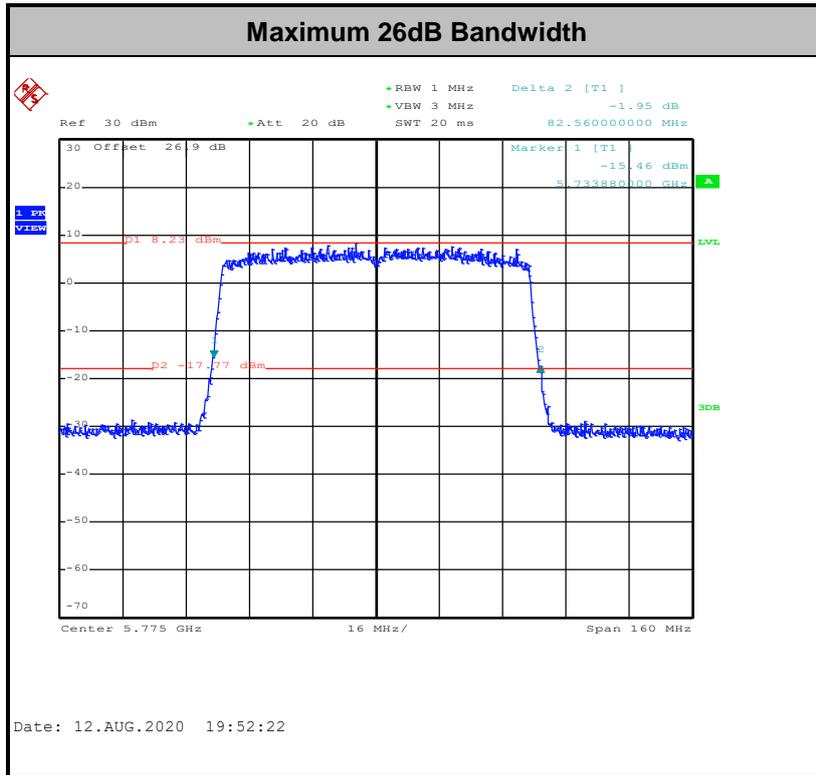




**Note:** The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<For Full Loaded RUs>





## 3.2 Maximum Conducted Output Power Measurement

### 3.2.1 Limit of Maximum Conducted Output Power

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

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

### 3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

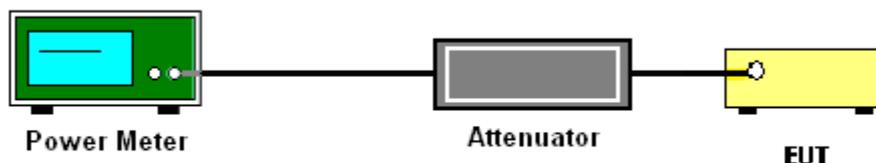
### 3.2.3 Test Procedures

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

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

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

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

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

#### 3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

#### 3.3.3 Test Procedures

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

##### # Method SA-3 #

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

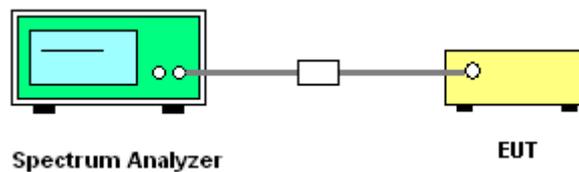
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz.
- Set VBW  $\geq$  1 MHz.
- Number of points in sweep  $\geq$  2 Span / RBW.
- Sweep time  $\leq$  (number of points in sweep)  $\times$  T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
- Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

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

Method (c): Measure and add  $10 \log(N_{\text{ANT}})$  dB.

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

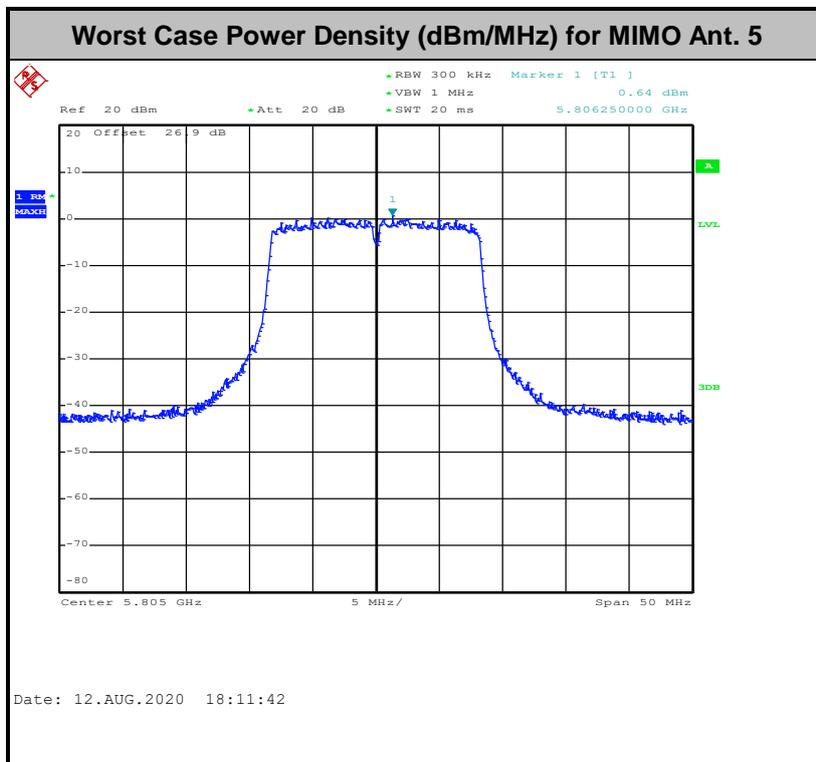
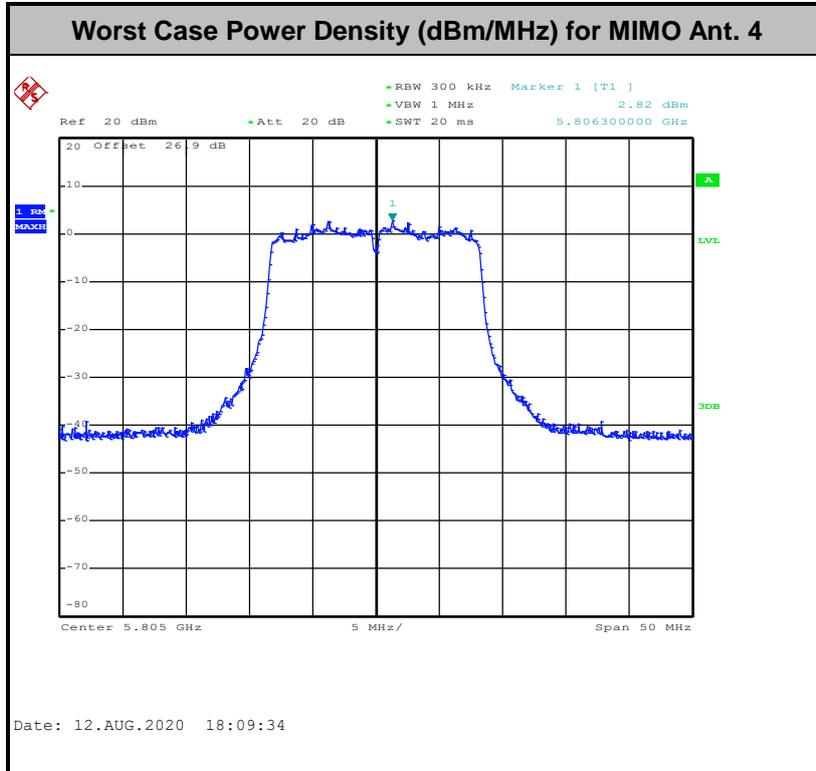
### 3.3.4 Test Setup





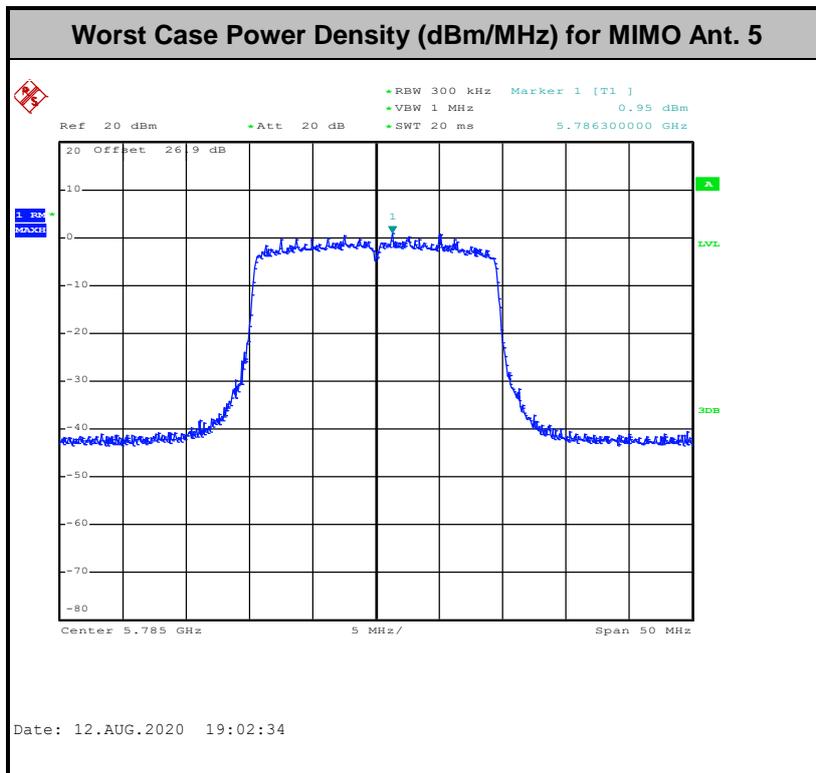
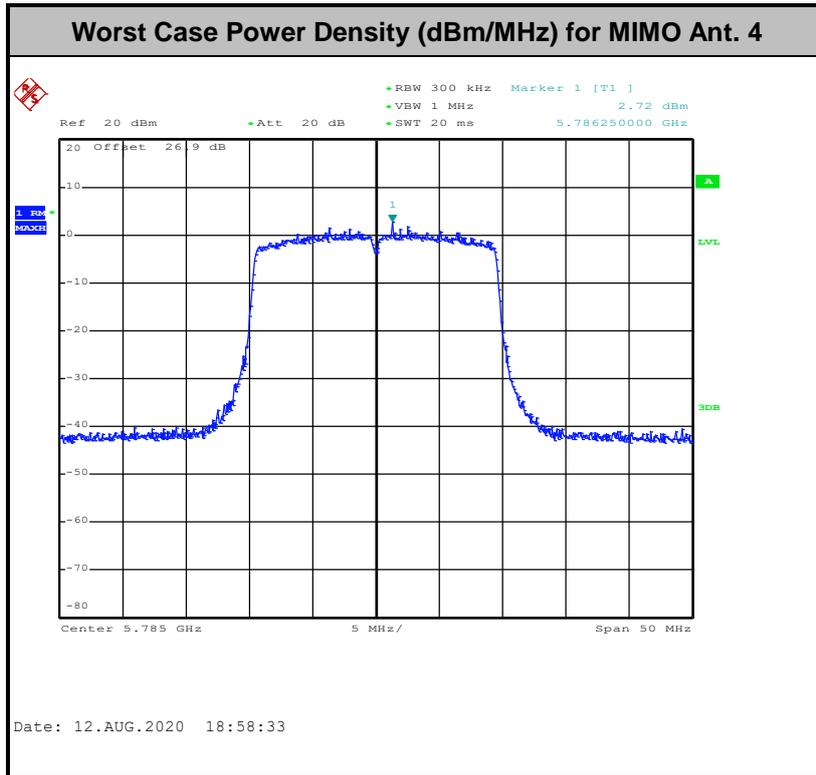
### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



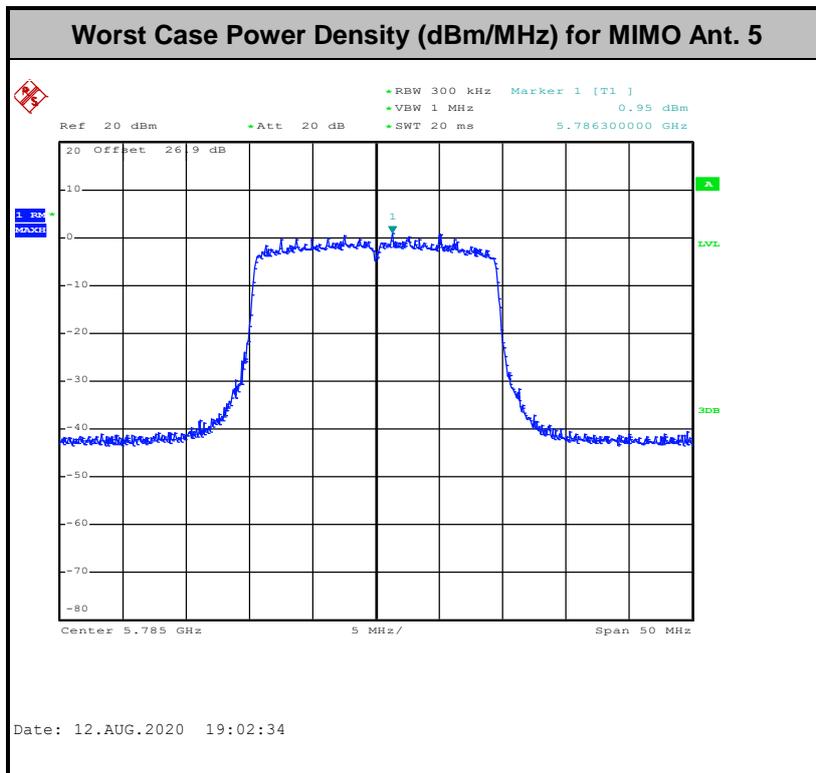
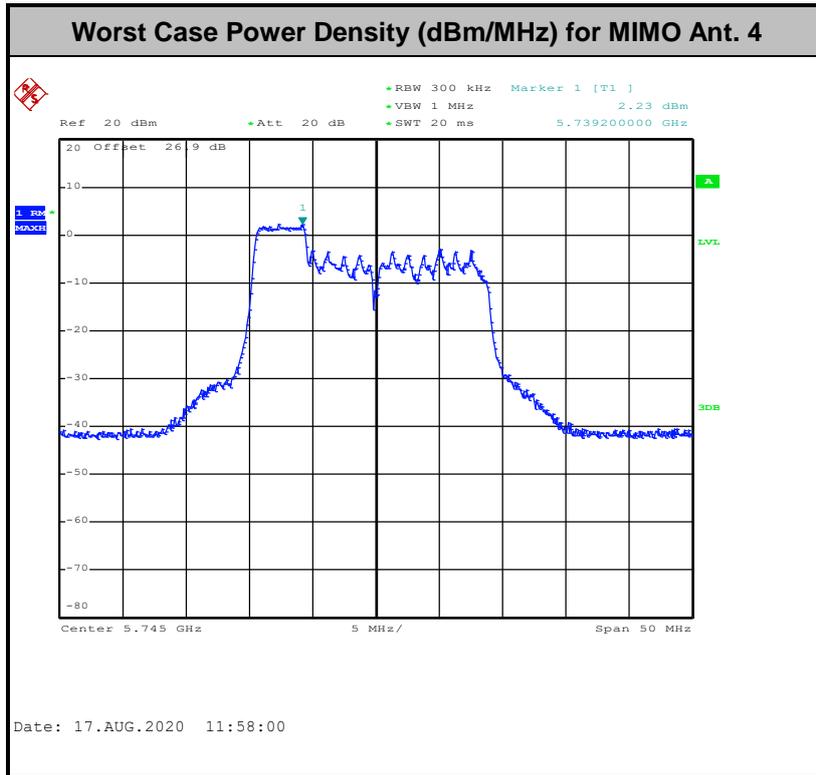


<For Full Loaded RUs>





<For Partially Loaded RUs>





### 3.4 Unwanted Emissions Measurement

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

#### 3.4.1 Limit of Unwanted Emissions

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

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

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

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

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

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



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

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

- (i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.
- (ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

### 3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

### 3.4.3 Test Procedures

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

(1) Procedure for Unwanted Emissions Measurements Below 1000MHz

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

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

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

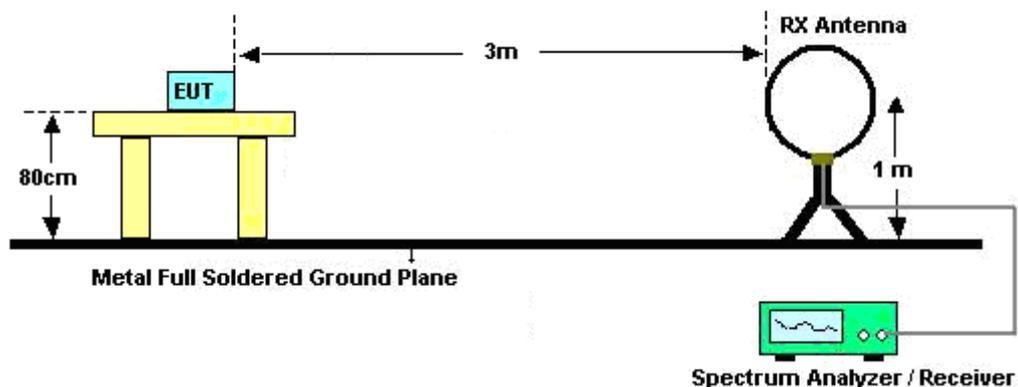
(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

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

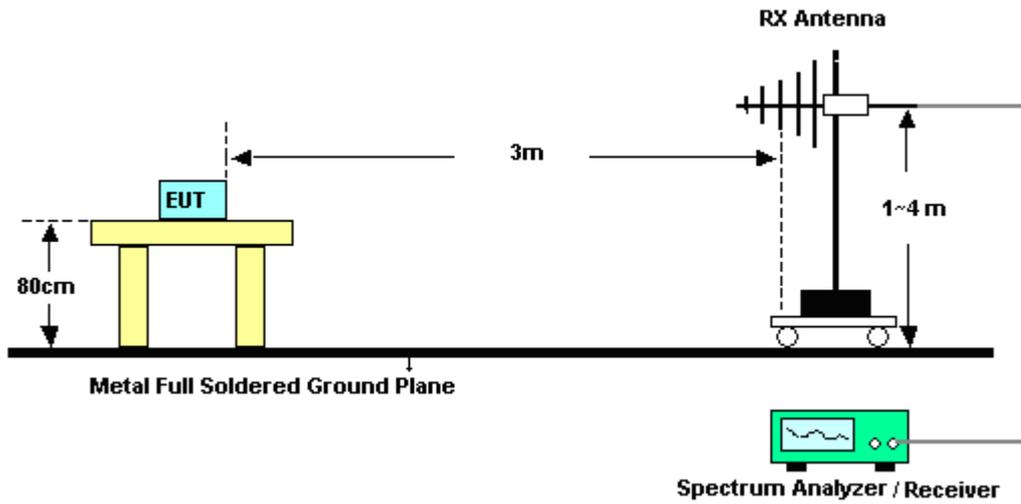
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

### 3.4.4 Test Setup

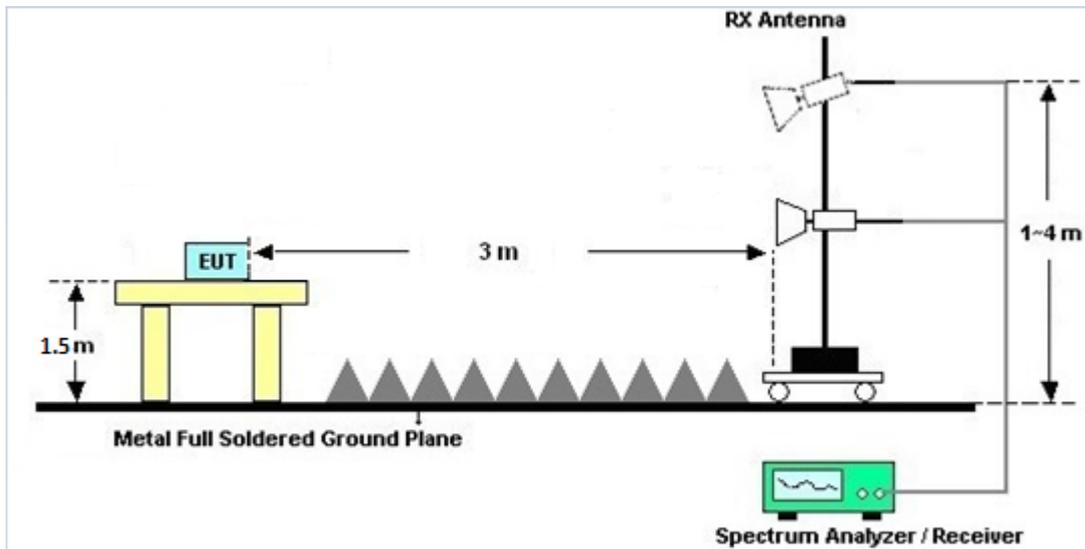
For radiated emissions below 30MHz



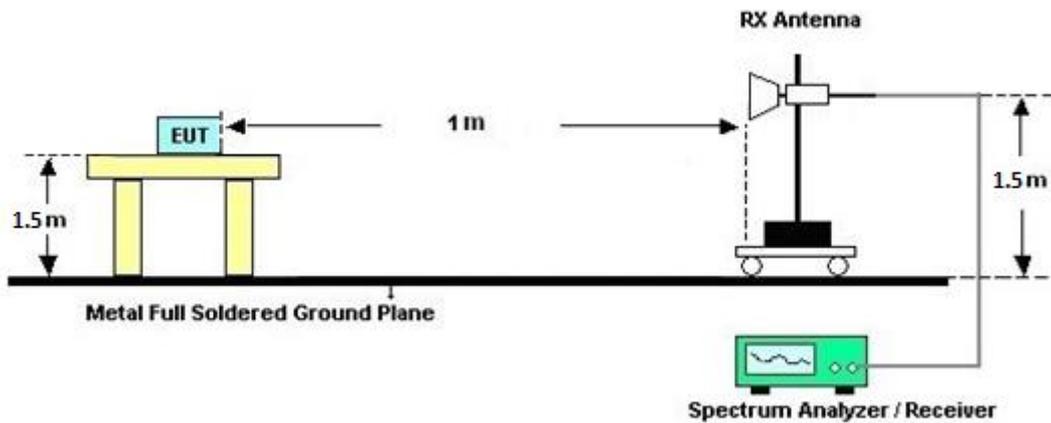
For radiated emissions from 30MHz to 1GHz



For radiated emissions from 1GHz to 18GHz



For radiated emissions 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 a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

### 3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix C and D.

### 3.4.7 Duty Cycle

Please refer to Appendix E.

### 3.4.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.



### 3.5 AC Conducted Emission Measurement

#### 3.5.1 Limit of AC Conducted Emission

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

Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

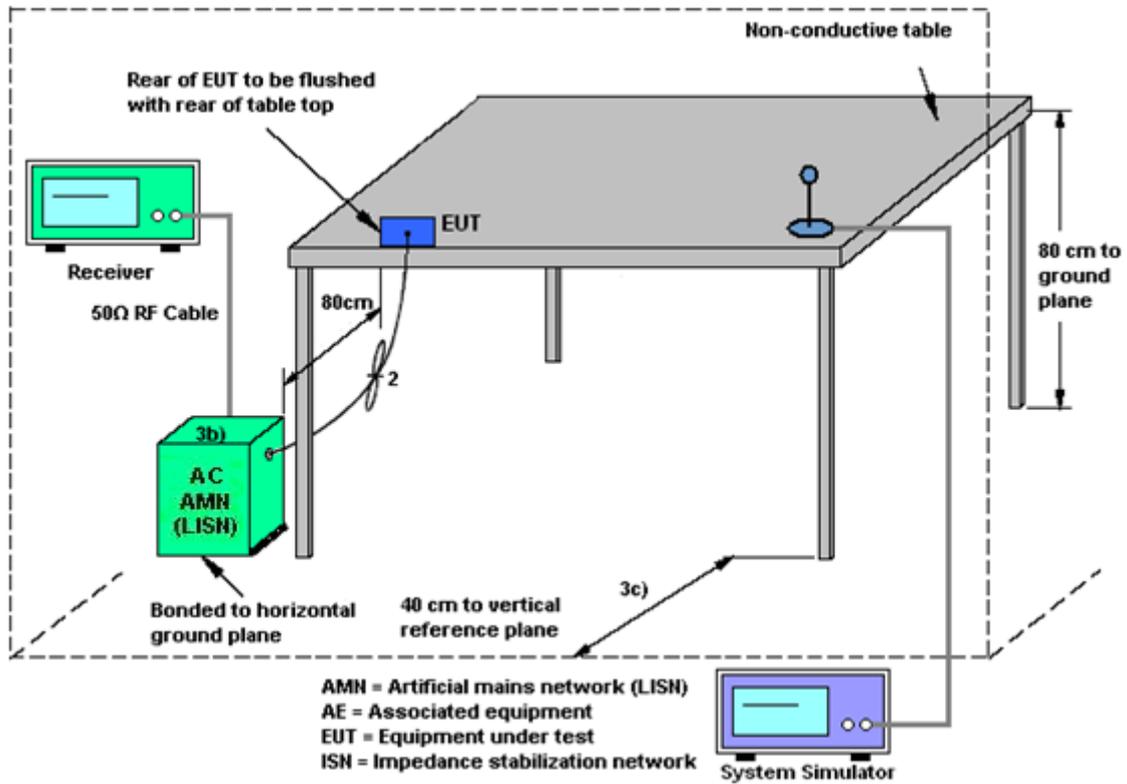
#### 3.5.2 Measuring Instruments

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 should 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 Automatically Discontinue Transmission**

### **3.6.1 Limit of Automatically Discontinue Transmission**

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

### **3.6.2 Measuring Instruments**

See list of measuring equipment of this test report.

### **3.6.3 Test Result of Automatically Discontinue Transmission**

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



### 3.7 Antenna Requirements

#### 3.7.1 Standard Applicable

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

#### 3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

#### 3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G<sub>ANT</sub> + Array Gain, where Array Gain is as follows.

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

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

For power measurements on IEEE 802.11 devices,

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

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G<sub>ANT</sub> set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G<sub>ANT</sub> is set equal to the antenna having the highest gain, i.e., F)2)f)i).

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

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

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

			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 4 (dBi)	Ant. 5 (dBi)				
Band IV	-1.70	-0.70	1.82	1.82	0.00	0.00

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$



## 4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Dec. 26, 2019	Jul. 31, 2020~ Aug. 18, 2020	Dec. 25, 2020	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	35419 & 03	30MHz~1GHz	Apr. 29, 2020	Jul. 31, 2020~ Aug. 18, 2020	Apr. 28, 2021	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 06, 2019	Jul. 31, 2020~ Aug. 18, 2020	Dec. 05, 2020	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA91705 84	18GHz~40GHz	Dec. 10, 2019	Jul. 31, 2020~ Aug. 18, 2020	Dec. 09, 2020	Radiation (03CH07-HY)
EMI Test Receiver	Agilent	N9038A(MXE )	MY5329005 3	20Hz~26.5GHz	May 21, 2020	Jul. 31, 2020~ Aug. 18, 2020	May 20, 2021	Radiation (03CH07-HY)
Preamplifier	COM-POWE R	PA-103A	161241	10MHz~1GHz	May 19, 2020	Jul. 31, 2020~ Aug. 18, 2020	May 18, 2021	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-001 01800-30-10 P	1590075	1GHz~18GHz	Apr. 23, 2020	Jul. 31, 2020~ Aug. 18, 2020	Apr. 22, 2021	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Nov. 01, 2019	Jul. 31, 2020~ Aug. 18, 2020	Oct. 31, 2020	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 13, 2019	Jul. 31, 2020~ Aug. 18, 2020	Dec. 12, 2020	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2,8 01606/2	18GHz~40GHz	Feb. 25, 2020	Jul. 31, 2020~ Aug. 18, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4, MY28655/4	9kHz~30MHz	Feb. 25, 2020	Jul. 31, 2020~ Aug. 18, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 25, 2020	Jul. 31, 2020~ Aug. 18, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 25, 2020	Jul. 31, 2020~ Aug. 18, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	N/A	Jul. 31, 2020~ Aug. 18, 2020	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Jul. 31, 2020~ Aug. 18, 2020	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Jul. 31, 2020~ Aug. 18, 2020	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB249 5	N/A	N/A	Jul. 31, 2020~ Aug. 18, 2020	N/A	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	N/A	N/A	N/A	Jul. 31, 2020~ Aug. 18, 2020	N/A	Radiation (03CH07-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Sensor	DARE	RPR3006W	16I00054SN O10	10MHz~6GHz	Dec. 23, 2019	Jul. 29, 2020~ Aug. 17, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	100895	9kHz-30GHz	Nov. 26, 2019	Jul. 29, 2020~ Aug. 17, 2020	Nov. 25, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Aug. 22, 2019	Jul. 29, 2020~ Aug. 17, 2020	Aug. 21, 2020	Conducted (TH05-HY)
Hygrometer	Ji Zhan	HTC-1	2	N/A	Mar. 02, 2020	Jul. 29, 2020~ Aug. 17, 2020	Mar. 01, 2021	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 07, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Aug. 07, 2020	Nov. 14, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 15, 2019	Aug. 07, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Aug. 07, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Aug. 07, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Aug. 07, 2020	Jan. 01, 2021	Conduction (CO05-HY)



## 5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.3
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.7
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.3
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.0
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**Appendix A. Test Result of Conducted Test Items**

Test Engineer:	Hank Hsu/ Jacob Yu	Temperature:	23.5~24.3	°C
Test Date:	2020/7/29-2020/8/17	Relative Humidity:	49~55	%

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

Band IV MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 4	Ant 5	Ant 4	Ant 5	Ant 4	Ant 5		
11a	6Mbps	2	149	5745	16.40	16.40	20.70	20.60	15.75	16.25	0.5	Pass
11a	6Mbps	2	157	5785	16.40	16.45	20.30	20.80	15.60	16.20	0.5	Pass
11a	6Mbps	2	161	5805	16.40	16.40	20.50	20.40	15.50	16.25	0.5	Pass

**TEST RESULTS DATA**  
**Average Power Table**

Band IV MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 4	Ant 5	SUM	Ant 4	Ant 5	Ant 4	Ant 5	
11a	6Mbps	2	149	5745	16.10	14.80	18.51	30.00		-0.70	Pass	
11a	6Mbps	2	157	5785	16.40	15.20	18.85	30.00		-0.70	Pass	
11a	6Mbps	2	161	5805	16.60	15.00	18.88	30.00		-0.70	Pass	
HT20	MCS0	2	149	5745	15.80	14.60	18.25	30.00		-0.70	Pass	
HT20	MCS0	2	157	5785	16.20	14.90	18.61	30.00		-0.70	Pass	
HT20	MCS0	2	161	5805	16.40	14.80	18.68	30.00		-0.70	Pass	
HT40	MCS0	2	151	5755	15.50	14.00	17.82	30.00		-0.70	Pass	
HT40	MCS0	2	159	5795	16.00	14.40	18.28	30.00		-0.70	Pass	
VHT20	MCS0	2	149	5745	15.70	14.50	18.15	30.00		-0.70	Pass	
VHT20	MCS0	2	157	5785	16.10	14.80	18.51	30.00		-0.70	Pass	
VHT20	MCS0	2	161	5805	16.30	14.70	18.58	30.00		-0.70	Pass	
VHT40	MCS0	2	151	5755	15.40	13.90	17.72	30.00		-0.70	Pass	
VHT40	MCS0	2	159	5795	15.90	14.30	18.18	30.00		-0.70	Pass	
VHT80	MCS0	2	155	5775	15.50	14.00	17.82	30.00		-0.70	Pass	

**TEST RESULTS DATA**  
**Power Spectral Density**

Band IV MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 4	Ant 5	Ant 4	Ant 5	SUM	Ant 4	Ant 5	Ant 4	Ant 5	
11a	6Mbps	2	149	5745	2.22	4.61	2.76	7.62	30.00	30.00	1.82	1.82	Pass	
11a	6Mbps	2	157	5785	2.22	4.61	3.26	7.62	30.00	30.00	1.82	1.82	Pass	
11a	6Mbps	2	161	5805	2.22	5.04	2.86	8.05	30.00	30.00	1.82	1.82	Pass	

Note: PSD Sum = Max PSD(Ant. 4, Ant. 5) + 10 log (n)

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

Band IV MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 4	Ant 5	Ant 4	Ant 5	Ant 4	Ant 5		
HE20	MCS0	2	149	5745	Full	18.95	18.95	22.40	22.60	18.60	18.35	0.5	Pass
HE20	MCS0	2	157	5785	Full	18.95	18.95	22.30	22.70	18.30	18.30	0.5	Pass
HE20	MCS0	2	161	5805	Full	18.95	18.90	22.35	22.50	18.30	18.20	0.5	Pass
HE40	MCS0	2	151	5755	Full	37.90	37.90	41.58	41.22	37.08	36.54	0.5	Pass
HE40	MCS0	2	159	5795	Full	37.90	37.90	41.40	41.40	36.90	36.36	0.5	Pass
HE80	MCS0	2	155	5775	Full	78.12	78.24	82.56	82.24	76.48	75.04	0.5	Pass

**TEST RESULTS DATA**  
**Average Power Table**

Band IV MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 4	Ant 5	SUM	Ant 4	Ant 5	Ant 4	Ant 5	
HE20	MCS0	2	149	5745	Full	15.90	14.70	18.35	30.00		-0.70	Pass	
HE20	MCS0	2	149	5745	26/0	7.60	5.30	9.61	30.00		-0.70	Pass	
HE20	MCS0	2	149	5745	52/37	10.70	8.60	12.79	30.00		-0.70	Pass	
HE20	MCS0	2	149	5745	106/53	13.90	11.80	15.99	30.00		-0.70	Pass	
HE20	MCS0	2	157	5785	Full	16.30	15.00	18.71	30.00		-0.70	Pass	
HE20	MCS0	2	161	5805	Full	16.50	14.90	18.78	30.00		-0.70	Pass	
HE20	MCS0	2	161	5805	26/8	7.30	5.80	9.62	30.00		-0.70	Pass	
HE20	MCS0	2	161	5805	52/40	10.80	9.00	13.00	30.00		-0.70	Pass	
HE20	MCS0	2	161	5805	106/54	14.40	12.30	16.49	30.00		-0.70	Pass	
HE40	MCS0	2	151	5755	Full	15.60	14.10	17.92	30.00		-0.70	Pass	
HE40	MCS0	2	151	5755	242/61	13.40	11.30	15.49	30.00		-0.70	Pass	
HE40	MCS0	2	159	5795	Full	16.10	14.50	18.38	30.00		-0.70	Pass	
HE40	MCS0	2	159	5795	242/62	13.60	11.30	15.61	30.00		-0.70	Pass	
HE80	MCS0	2	155	5775	Full	15.60	14.10	17.92	30.00		-0.70	Pass	
HE80	MCS0	2	155	5775	484/65	13.70	12.00	15.94	30.00		-0.70	Pass	
HE80	MCS0	2	155	5775	484/66	13.60	11.10	15.54	30.00		-0.70	Pass	

**TEST RESULTS DATA**  
**Power Spectral Density**

Band IV MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 4	Ant 5	Ant 4	Ant 5	SUM	Ant 4	Ant 5	Ant 4	Ant 5	
HE20	MCS0	2	149	5745	Full	2.22	4.46	2.89	7.47		30.00		1.82	Pass	
HE20	MCS0	2	149	5745	26/0	2.22	4.27	1.97	7.28		30.00		1.82	Pass	
HE20	MCS0	2	149	5745	52/37	2.22	4.45	2.46	7.46		30.00		1.82	Pass	
HE20	MCS0	2	149	5745	106/53	2.22	4.28	2.46	7.29		30.00		1.82	Pass	
HE20	MCS0	2	157	5785	Full	2.22	4.94	3.17	7.95		30.00		1.82	Pass	
HE20	MCS0	2	161	5805	Full	2.22	4.64	2.89	7.65		30.00		1.82	Pass	
HE20	MCS0	2	161	5805	26/8	2.22	4.13	2.23	7.14		30.00		1.82	Pass	
HE20	MCS0	2	161	5805	52/40	2.22	4.33	2.41	7.34		30.00		1.82	Pass	
HE20	MCS0	2	161	5805	106/54	2.22	4.32	2.44	7.33		30.00		1.82	Pass	
HE40	MCS0	2	151	5755	Full	2.22	0.26	-1.18	3.27		30.00		1.82	Pass	
HE40	MCS0	2	151	5755	242/61	2.22	0.20	-1.79	3.21		30.00		1.82	Pass	
HE40	MCS0	2	159	5795	Full	2.22	1.03	-1.01	4.04		30.00		1.82	Pass	
HE40	MCS0	2	159	5795	242/62	2.22	0.78	-2.01	3.79		30.00		1.82	Pass	
HE80	MCS0	2	155	5775	Full	2.22	-1.72	-3.70	1.29		30.00		1.82	Pass	
HE80	MCS0	2	155	5775	484/65	2.22	-2.20	-3.84	0.81		30.00		1.82	Pass	
HE80	MCS0	2	155	5775	484/66	2.22	-2.23	-4.52	0.78		30.00		1.82	Pass	

Note: PSD Sum = Max PSD(Ant. 4, Ant. 5) + 10 log (n)



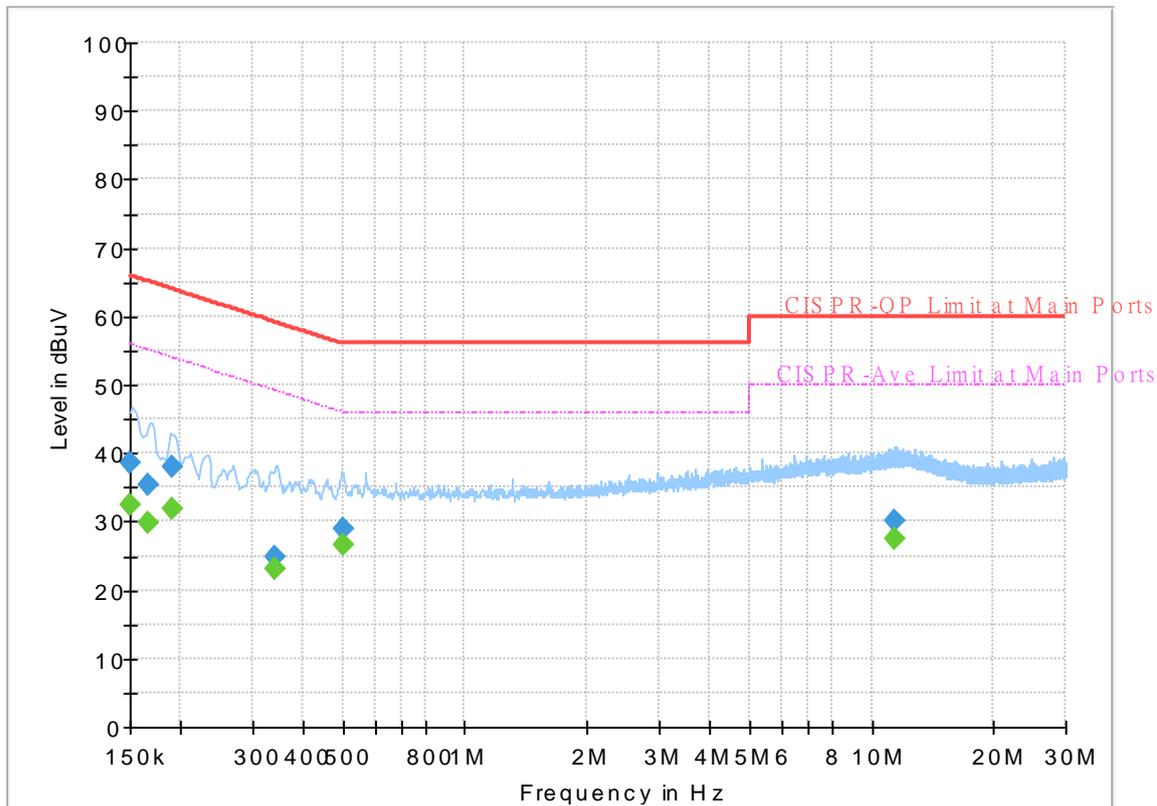
## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	Temperature :	23~26°C
		Relative Humidity :	42~50%

# EUT Information

Report NO : 072112  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



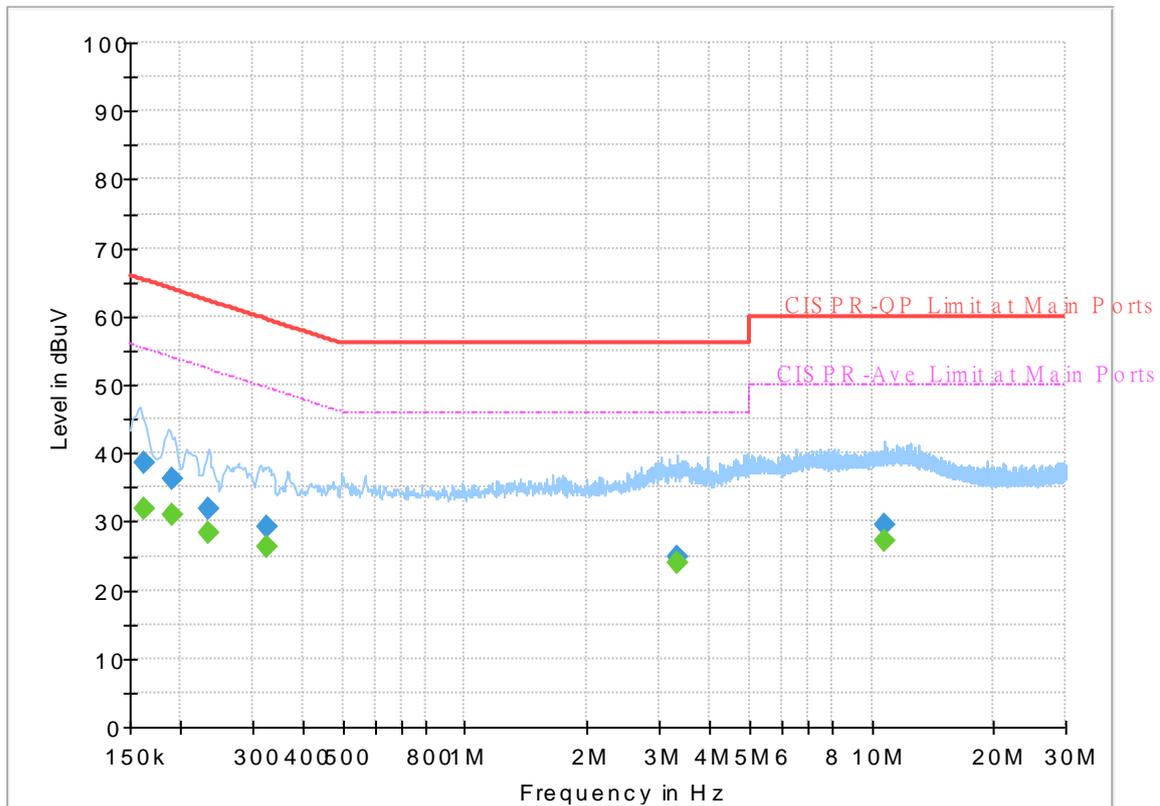
## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	32.42	56.00	23.58	L1	OFF	19.6
0.150000	38.72	---	66.00	27.28	L1	OFF	19.6
0.165750	---	29.93	55.17	25.24	L1	OFF	19.6
0.165750	35.33	---	65.17	29.84	L1	OFF	19.6
0.189510	---	31.92	54.06	22.14	L1	OFF	19.6
0.189510	37.95	---	64.06	26.11	L1	OFF	19.6
0.339000	---	23.12	49.23	26.11	L1	OFF	19.6
0.339000	25.00	---	59.23	34.23	L1	OFF	19.6
0.501000	---	26.69	46.00	19.31	L1	OFF	19.6
0.501000	29.09	---	56.00	26.91	L1	OFF	19.6
11.359500	---	27.56	50.00	22.44	L1	OFF	20.1
11.359500	30.09	---	60.00	29.91	L1	OFF	20.1

## EUT Information

Report NO : 072112  
 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)
0.162240	---	31.89	55.35	23.46	N	OFF	19.5
0.162240	38.62	---	65.35	26.73	N	OFF	19.5
0.190500	---	30.99	54.02	23.03	N	OFF	19.5
0.190500	36.13	---	64.02	27.89	N	OFF	19.5
0.234870	---	28.25	52.28	24.03	N	OFF	19.5
0.234870	31.93	---	62.28	30.35	N	OFF	19.5
0.326040	---	26.37	49.55	23.18	N	OFF	19.5
0.326040	29.10	---	59.55	30.45	N	OFF	19.5
3.338250	---	23.98	46.00	22.02	N	OFF	19.6
3.338250	24.94	---	56.00	31.06	N	OFF	19.6
10.720950	---	27.08	50.00	22.92	N	OFF	19.8
10.720950	29.46	---	60.00	30.54	N	OFF	19.8



### Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh and KenWu	Temperature :	21~25°C
		Relative Humidity :	48~53%

**Band 4 - 5725~5825MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

WIFI Ant.	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11a CH 149 5745MHz		5631.2	48.37	-19.83	68.2	36.69	34.9	12.09	35.31	100	119	P	H	
		5671.6	48.66	-35.56	84.22	36.97	34.85	12.16	35.32	100	119	P	H	
		5718.4	54.23	-56.12	110.35	42.31	35	12.24	35.32	100	119	P	H	
		5723	61.06	-56.58	117.64	49.14	35	12.24	35.32	100	119	P	H	
	*	5745	111.13	-	-	99.17	35	12.28	35.32	100	119	P	H	
	*	5745	103.75	-	-	91.79	35	12.28	35.32	100	119	A	H	
														H
														H
			5648.4	49.36	-18.84	68.2	37.75	34.8	12.12	35.31	350	104	P	V
			5692.4	48.53	-51.07	99.6	36.66	35	12.19	35.32	350	104	P	V
			5719.4	48.66	-61.97	110.63	36.74	35	12.24	35.32	350	104	P	V
			5724.6	53.95	-67.34	121.29	42.02	35	12.25	35.32	350	104	P	V
	*	5745	107.47	-	-	95.51	35	12.28	35.32	350	104	P	V	
	*	5745	100.05	-	-	88.09	35	12.28	35.32	350	104	A	V	
													V	
													V	



WIFI Ant. 4+5	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5641.2	48.8	-19.4	68.2	37.2	34.8	12.11	35.31	100	119	P	H
		5693.8	48.23	-52.4	100.63	36.36	35	12.19	35.32	100	119	P	H
		5708.6	48.24	-59.37	107.61	36.34	35	12.22	35.32	100	119	P	H
		5721.8	46.94	-67.96	114.9	35.02	35	12.24	35.32	100	119	P	H
	*	5785	110.3	-	-	98.28	35	12.35	35.33	100	119	P	H
	*	5785	102.93	-	-	90.91	35	12.35	35.33	100	119	A	H
		5854.4	48.34	-63.83	112.17	36.21	35.07	12.4	35.34	100	119	P	H
		5871.4	48.96	-57.25	106.21	36.76	35.13	12.41	35.34	100	119	P	H
		5877.8	50.7	-52.42	103.12	38.5	35.13	12.41	35.34	100	119	P	H
		5945.4	50.25	-17.95	68.2	37.95	35.2	12.44	35.34	100	119	P	H
													H
													H
<b>802.11a</b>													
<b>CH 157</b>													
<b>5785MHz</b>		5613.4	49.09	-19.11	68.2	37.34	35	12.06	35.31	365	96	P	V
		5691.2	49.08	-49.63	98.71	37.21	35	12.19	35.32	365	96	P	V
		5712	48.12	-60.44	108.56	36.22	35	12.22	35.32	365	96	P	V
		5721.6	46.71	-67.74	114.45	34.79	35	12.24	35.32	365	96	P	V
	*	5785	107	-	-	94.98	35	12.35	35.33	365	96	P	V
	*	5785	99.49	-	-	87.47	35	12.35	35.33	365	96	A	V
		5854.4	48.51	-63.66	112.17	36.38	35.07	12.4	35.34	365	96	P	V
		5869.4	49.34	-57.43	106.77	37.21	35.07	12.4	35.34	365	96	P	V
		5915.4	51.02	-24.26	75.28	38.73	35.2	12.43	35.34	365	96	P	V
		5945.2	51.12	-17.08	68.2	38.82	35.2	12.44	35.34	365	96	P	V
													V
													V



WiFi Ant. 4+5	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11a CH 161 5805MHz	*	5805	110.43	-	-	98.39	35	12.37	35.33	100	120	P	H	
	*	5805	102.97	-	-	90.93	35	12.37	35.33	100	120	A	H	
		5851.8	48.98	-69.12	118.1	36.92	35	12.4	35.34	100	120	P	H	
		5865	50.02	-57.98	108	37.89	35.07	12.4	35.34	100	120	P	H	
		5890.2	50.31	-43.61	93.92	38.03	35.2	12.42	35.34	100	120	P	H	
		5929.4	50.89	-17.31	68.2	38.6	35.2	12.43	35.34	100	120	P	H	
														H
														H
	*	5805	107.08	-	-	95.04	35	12.37	35.33	362	96	96	P	V
	*	5805	99.6	-	-	87.56	35	12.37	35.33	362	96	96	A	V
		5852.4	47.47	-69.26	116.73	35.41	35	12.4	35.34	362	96	96	P	V
		5857.4	49.47	-60.66	110.13	37.34	35.07	12.4	35.34	362	96	96	P	V
		5885.8	49.72	-47.46	97.18	37.52	35.13	12.41	35.34	362	96	96	P	V
		5940.6	49.79	-18.41	68.2	37.49	35.2	12.44	35.34	362	96	96	P	V
														V
														V
														V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



**Band 4 5725~5825MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 4+5	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11a CH 149 5745MHz		11490	44.45	-29.55	74	45.31	38.18	18.48	57.52	100	0	P	H	
		17235	49	-19.2	68.2	40.83	41.53	22.95	56.31	100	0	P	H	
													H	
													H	
			11490	44.93	-29.07	74	45.79	38.18	18.48	57.52	100	0	P	V
			17235	49.39	-18.81	68.2	41.22	41.53	22.95	56.31	100	0	P	V
														V
802.11a CH 157 5785MHz		11570	45.02	-28.98	74	45.48	38.33	18.55	57.34	100	0	P	H	
		17355	49.22	-18.98	68.2	41.05	41.5	23.02	56.35	100	0	P	H	
													H	
													H	
			11570	45.04	-28.96	74	45.5	38.33	18.55	57.34	100	0	P	V
			17355	49.71	-18.49	68.2	41.54	41.5	23.02	56.35	100	0	P	V
														V
802.11a CH 161 5805MHz		11610	45.01	-28.99	74	45.26	38.4	17.28	57.24	100	0	P	H	
		17415	49.62	-18.58	68.2	41.39	41.53	21.22	56.36	100	0	P	H	
													H	
													H	
			11610	45.25	-28.75	74	45.5	38.4	17.28	57.24	100	0	P	V
			17415	50.01	-18.19	68.2	41.78	41.53	21.22	56.36	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



Band 4 5725~5825MHz

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

WIFI Ant. 4+5	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Full CH 149 5745MHz		5612.2	48.1	-20.1	68.2	36.35	35	12.06	35.31	100	119	P	H	
		5667.2	48.4	-32.56	80.96	36.72	34.85	12.15	35.32	100	119	P	H	
		5719.6	57.72	-52.97	110.69	45.8	35	12.24	35.32	100	119	P	H	
		5723.6	58.91	-60.1	119.01	46.99	35	12.24	35.32	100	119	P	H	
	*	5745	110.53	-	-	98.57	35	12.28	35.32	100	119	P	H	
	*	5745	101.14	-	-	89.18	35	12.28	35.32	100	119	A	H	
														H
														H
			5610.2	48.23	-19.97	68.2	36.48	35	12.06	35.31	351	104	P	V
			5654.8	48.08	-23.69	71.77	36.57	34.7	12.13	35.32	351	104	P	V
			5720	49.52	-61.28	110.8	37.6	35	12.24	35.32	351	104	P	V
			5725	52.17	-70.03	122.2	40.24	35	12.25	35.32	351	104	P	V
	*		5745	107.31	-	-	95.35	35	12.28	35.32	351	104	P	V
	*		5745	97.24	-	-	85.28	35	12.28	35.32	351	104	A	V
													V	
													V	



WIFI Ant. 4+5	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5636.2	47.98	-20.22	68.2	36.39	34.8	12.1	35.31	103	120	P	H
		5675.4	48.34	-38.7	87.04	36.65	34.85	12.16	35.32	103	120	P	H
		5713.2	49.3	-59.6	108.9	37.39	35	12.23	35.32	103	120	P	H
		5721	48.98	-64.1	113.08	37.06	35	12.24	35.32	103	120	P	H
	*	5785	109.8	-	-	97.78	35	12.35	35.33	103	120	P	H
	*	5785	100.64	-	-	88.62	35	12.35	35.33	103	120	A	H
		5851.8	49.06	-69.04	118.1	37	35	12.4	35.34	103	120	P	H
		5869.8	50.07	-56.58	106.65	37.94	35.07	12.4	35.34	103	120	P	H
		5900.6	49.92	-36.3	86.22	37.64	35.2	12.42	35.34	103	120	P	H
		5946.6	49.87	-18.33	68.2	37.57	35.2	12.44	35.34	103	120	P	H
<b>802.11ax</b>													H
<b>HE20 Full</b>													H
<b>CH 157</b>		5621.8	48.35	-19.85	68.2	36.68	34.9	12.08	35.31	347	96	P	V
<b>5785MHz</b>		5681	47.84	-43.34	91.18	36.14	34.85	12.17	35.32	347	96	P	V
		5711	48.35	-59.93	108.28	36.45	35	12.22	35.32	347	96	P	V
		5723.8	48.54	-70.92	119.46	36.62	35	12.24	35.32	347	96	P	V
	*	5785	107.08	-	-	95.06	35	12.35	35.33	347	96	P	V
	*	5785	97.11	-	-	85.09	35	12.35	35.33	347	96	A	V
		5855	48.17	-62.63	110.8	36.04	35.07	12.4	35.34	347	96	P	V
		5866.6	49.7	-57.85	107.55	37.57	35.07	12.4	35.34	347	96	P	V
		5885.8	49.77	-47.41	97.18	37.57	35.13	12.41	35.34	347	96	P	V
		5940	49.12	-19.08	68.2	36.82	35.2	12.44	35.34	347	96	P	V
													V
													V



WiFi Ant. 4+5	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Full CH 161 5805MHz	*	5805	109.66	-	-	97.62	35	12.37	35.33	100	120	P	H	
	*	5805	100.51	-	-	88.47	35	12.37	35.33	100	120	A	H	
		5850.01	49.57	-72.61	122.18	37.5	35	12.4	35.33	100	120	P	H	
		5871.8	49.49	-56.6	106.09	37.29	35.13	12.41	35.34	100	120	P	H	
		5906.2	50.33	-31.75	82.08	38.05	35.2	12.42	35.34	100	120	P	H	
		5934.4	49.03	-19.17	68.2	36.73	35.2	12.44	35.34	100	120	P	H	
														H
														H
	*	5805	107.41	-	-	95.37	35	12.37	35.33	343	96	P	V	
	*	5805	97.22	-	-	85.18	35	12.37	35.33	343	96	A	V	
		5854.4	48.32	-63.85	112.17	36.19	35.07	12.4	35.34	343	96	P	V	
		5873.2	49.25	-56.45	105.7	37.05	35.13	12.41	35.34	343	96	P	V	
		5916.6	50.27	-24.12	74.39	37.98	35.2	12.43	35.34	343	96	P	V	
		5938.4	49.15	-19.05	68.2	36.85	35.2	12.44	35.34	343	96	P	V	
														V
														V
													V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Band 4 5725~5825MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 4+5	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ax HE20 Full CH 149 5745MHz		11490	44.52	-29.48	74	45.38	38.18	18.48	57.52	100	0	P	H
		17235	48.86	-19.34	68.2	40.69	41.53	22.95	56.31	100	0	P	H
													H
													H
		11490	44.52	-29.48	74	45.38	38.18	18.48	57.52	100	0	P	V
		17235	49.82	-18.38	68.2	41.65	41.53	22.95	56.31	100	0	P	V
													V
802.11ax HE20 Full CH 157 5785MHz		11570	45.18	-28.82	74	45.64	38.33	18.55	57.34	100	0	P	H
		17355	49.06	-19.14	68.2	40.89	41.5	23.02	56.35	100	0	P	H
													H
													H
		11570	44.78	-29.22	74	45.24	38.33	18.55	57.34	100	0	P	V
		17355	48.95	-19.25	68.2	40.78	41.5	23.02	56.35	100	0	P	V
													V
802.11ax HE20 Full CH 161 5805MHz		11610	45.1	-28.9	74	45.35	38.4	17.28	57.24	100	0	P	H
		17415	48.64	-19.56	68.2	40.41	41.53	21.22	56.36	100	0	P	H
													H
													H
		11610	44.95	-29.05	74	45.2	38.4	17.28	57.24	100	0	P	V
		17415	49.27	-18.93	68.2	41.04	41.53	21.22	56.36	100	0	P	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



**Band 4 5725~5825MHz**  
**WIFI 802.11ax HE40\_Full (Band Edge @ 3m)**

WIFI Ant. 4+5	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5609.6	49.31	-18.89	68.2	37.56	35	12.06	35.31	104	119	P	H
		5688.8	49.82	-47.12	96.94	37.95	35	12.19	35.32	104	119	P	H
		5714.4	52.69	-56.54	109.23	40.78	35	12.23	35.32	104	119	P	H
		5722.2	56.05	-59.77	115.82	44.13	35	12.24	35.32	104	119	P	H
	*	5755	105.79	-	-	93.82	35	12.3	35.33	104	119	P	H
	*	5755	96.27	-	-	84.3	35	12.3	35.33	104	119	A	H
		5852	48.5	-69.14	117.64	36.44	35	12.4	35.34	104	119	P	H
		5864.6	51.59	-56.52	108.11	39.46	35.07	12.4	35.34	104	119	P	H
		5920.2	50.86	-20.88	71.74	38.57	35.2	12.43	35.34	104	119	P	H
		5925.6	49.87	-18.33	68.2	37.58	35.2	12.43	35.34	104	119	P	H
<b>802.11ax</b>													H
<b>HE40 Full</b>													H
<b>CH 151</b>		5645.2	48.62	-19.58	68.2	37.02	34.8	12.11	35.31	351	98	P	V
<b>5755MHz</b>		5675	48.16	-38.58	86.74	36.47	34.85	12.16	35.32	351	98	P	V
		5716.4	50.25	-59.54	109.79	38.34	35	12.23	35.32	351	98	P	V
		5722.2	50.21	-65.61	115.82	38.29	35	12.24	35.32	351	98	P	V
	*	5755	101.93	-	-	89.96	35	12.3	35.33	351	98	P	V
	*	5755	92.36	-	-	80.39	35	12.3	35.33	351	98	A	V
		5852.2	49.45	-67.73	117.18	37.39	35	12.4	35.34	351	98	P	V
		5864.2	49.7	-58.52	108.22	37.57	35.07	12.4	35.34	351	98	P	V
		5887.2	50.08	-46.06	96.14	37.88	35.13	12.41	35.34	351	98	P	V
		5929	49.15	-19.05	68.2	36.86	35.2	12.43	35.34	351	98	P	V
													V
													V



WIFI Ant. 4+5	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5601.2	49.59	-18.61	68.2	37.86	35	12.04	35.31	100	116	P	H
		5695.8	50.85	-51.25	102.1	38.97	35	12.2	35.32	100	116	P	H
		5715.8	48.88	-60.75	109.63	36.97	35	12.23	35.32	100	116	P	H
		5725	47.21	-74.99	122.2	35.28	35	12.25	35.32	100	116	P	H
	*	5795	105.27	-	-	93.24	35	12.36	35.33	100	116	P	H
	*	5795	95.84	-	-	83.81	35	12.36	35.33	100	116	A	H
		5850.2	49.08	-72.66	121.74	37.02	35	12.4	35.34	100	116	P	H
		5869	51.28	-55.6	106.88	39.15	35.07	12.4	35.34	100	116	P	H
		5902.6	51.08	-33.66	84.74	38.8	35.2	12.42	35.34	100	116	P	H
		5938.4	48.83	-19.37	68.2	36.53	35.2	12.44	35.34	100	116	P	H
802.11ax													H
HE40 Full													H
CH 159		5645	48.07	-20.13	68.2	36.47	34.8	12.11	35.31	346	87	P	V
5795MHz		5679.2	48.53	-41.32	89.85	36.83	34.85	12.17	35.32	346	87	P	V
		5709.4	47.87	-59.96	107.83	35.97	35	12.22	35.32	346	87	P	V
		5723	47.87	-69.77	117.64	35.95	35	12.24	35.32	346	87	P	V
	*	5795	102.87	-	-	90.84	35	12.36	35.33	346	87	P	V
	*	5795	92.77	-	-	80.74	35	12.36	35.33	346	87	A	V
		5855	47.85	-62.95	110.8	35.72	35.07	12.4	35.34	346	87	P	V
		5858	48.9	-61.06	109.96	36.77	35.07	12.4	35.34	346	87	P	V
		5888	49.82	-45.73	95.55	37.55	35.2	12.41	35.34	346	87	P	V
		5926.6	49.17	-19.03	68.2	36.88	35.2	12.43	35.34	346	87	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 4 5725~5825MHz**  
**WIFI 802.11ax HE40\_Full (Harmonic @ 3m)**

WIFI Ant. 4+5	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE40 Full CH 151 5755MHz		11510	44.73	-29.27	74	45.5	38.2	18.51	57.48	100	0	P	H	
		17265	48.77	-19.43	68.2	40.66	41.47	22.96	56.32	100	0	P	H	
													H	
													H	
			11510	45.13	-28.87	74	45.9	38.2	18.51	57.48	100	0	P	V
			17265	49.47	-18.73	68.2	41.36	41.47	22.96	56.32	100	0	P	V
														V
802.11ax HE40 Full CH 159 5795MHz		11590	44.5	-29.5	74	44.85	38.37	18.57	57.29	100	0	P	H	
		17385	49.96	-18.24	68.2	41.71	41.57	23.04	56.36	100	0	P	H	
													H	
													H	
			11590	44.62	-29.38	74	44.97	38.37	18.57	57.29	100	0	P	V
			17385	50.07	-18.13	68.2	41.82	41.57	23.04	56.36	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



**Band 4 5725~5825MHz**  
**WIFI 802.11ax HE40\_Partial 242 (Band Edge @ 3m)**

WIFI Ant. 4+5	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5630	48.68	-19.52	68.2	37	34.9	12.09	35.31	100	118		H
		5670.8	47.89	-35.74	83.63	36.2	34.85	12.16	35.32	100	118		H
		5713	48.92	-59.92	108.84	37.01	35	12.23	35.32	100	118		H
		5721	47.46	-65.62	113.08	35.54	35	12.24	35.32	100	118		H
	*	5795	106.63	-	-	94.6	35	12.36	35.33	100	118		H
	*	5795	97.33	-	-	85.3	35	12.36	35.33	100	118		H
		5852.6	48.7	-67.57	116.27	36.64	35	12.4	35.34	100	118		H
		5866.6	50.05	-57.5	107.55	37.92	35.07	12.4	35.34	100	118		H
		5882	50.02	-49.98	100	37.82	35.13	12.41	35.34	100	118		H
802.11ax		5931.2	49.75	-18.45	68.2	37.45	35.2	12.44	35.34	100	118		H
HE40													H
Partial													H
262/62		5643.4	47.6	-20.6	68.2	36	34.8	12.11	35.31	298	87		V
CH 159		5690.2	48.15	-49.82	97.97	36.28	35	12.19	35.32	298	87		V
5795MHz		5718.4	48.35	-62	110.35	36.43	35	12.24	35.32	298	87		V
		5723.6	47.82	-71.19	119.01	35.9	35	12.24	35.32	298	87		V
	*	5795	103.47	-	-	91.44	35	12.36	35.33	298	87		V
	*	5795	94.63	-	-	82.6	35	12.36	35.33	298	87		V
		5850	48.47	-73.73	122.2	36.4	35	12.4	35.33	298	87		V
		5872.8	50.01	-55.81	105.82	37.81	35.13	12.41	35.34	298	87		V
		5919.8	50.17	-21.86	72.03	37.88	35.2	12.43	35.34	298	87		V
		5945.6	50.11	-18.09	68.2	37.81	35.2	12.44	35.34	298	87		V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 4 5725~5825MHz**  
**WIFI 802.11ax HE80\_Full (Band Edge @ 3m)**

WIFI Ant. 4+5	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5618.4	48.88	-19.32	68.2	37.22	34.9	12.07	35.31	101	118	P	H
		5696	52.49	-49.76	102.25	40.61	35	12.2	35.32	101	118	P	H
		5719	55.81	-54.71	110.52	43.89	35	12.24	35.32	101	118	P	H
		5720.8	53.69	-58.93	112.62	41.77	35	12.24	35.32	101	118	P	H
	*	5775	102.55	-	-	90.55	35	12.33	35.33	101	118	P	H
	*	5775	93	-	-	81	35	12.33	35.33	101	118	A	H
		5851.2	53.23	-66.23	119.46	41.17	35	12.4	35.34	101	118	P	H
		5855.2	53.04	-57.7	110.74	40.91	35.07	12.4	35.34	101	118	P	H
		5889.4	49.75	-44.76	94.51	37.48	35.2	12.41	35.34	101	118	P	H
		5947	48.82	-19.38	68.2	36.52	35.2	12.44	35.34	101	118	P	H
<b>802.11ax</b>													H
<b>HE80 Full</b>													H
<b>CH 155</b>		5632.2	48.72	-19.48	68.2	37.04	34.9	12.09	35.31	316	86	P	V
<b>5775MHz</b>		5700	48.44	-56.76	105.2	36.56	35	12.2	35.32	316	86	P	V
		5702.6	50.58	-55.35	105.93	38.69	35	12.21	35.32	316	86	P	V
		5723.2	48.77	-69.33	118.1	36.85	35	12.24	35.32	316	86	P	V
	*	5775	99.03	-	-	87.03	35	12.33	35.33	316	86	P	V
	*	5775	90.34	-	-	78.34	35	12.33	35.33	316	86	A	V
		5851	49.58	-70.34	119.92	37.52	35	12.4	35.34	316	86	P	V
		5863.4	49.85	-58.6	108.45	37.72	35.07	12.4	35.34	316	86	P	V
		5888	50.62	-44.93	95.55	38.35	35.2	12.41	35.34	316	86	P	V
		5929.6	49.67	-18.53	68.2	37.38	35.2	12.43	35.34	316	86	P	V
													V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 4 5725~5825MHz**

**WIFI 802.11ax HE80\_Full (Harmonic @ 3m)**

WIFI Ant. 4+5	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE80 Full CH 155 5775MHz		11550	44.19	-29.81	74	44.73	38.3	18.54	57.38	100	0	P	H	
		17325	48.66	-19.54	68.2	40.57	41.43	23	56.34	100	0	P	H	
													H	
													H	
			11550	44.94	-29.06	74	45.48	38.3	18.54	57.38	100	0	P	V
			17325	48.31	-19.89	68.2	40.22	41.43	23	56.34	100	0	P	V
														V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Emission above 18GHz

WIFI 802.11a (SHF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
4+5		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )	
802.11a SHF		39824	44.02	-29.98	74	42.46	44.1	12.04	54.58	150	0	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													V	
			39824	43.76	-30.24	74	42.2	44.1	12.04	54.58	150	0	P	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.													





**Note symbol**

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
4+5		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

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

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)  
= 55.45 (dBμV/m)
2. Over Limit(dB)  
= Level(dBμV/m) – Limit Line(dBμV/m)  
= 55.45(dBμV/m) – 74(dBμV/m)  
= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)  
= 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)  
= 43.54(dBμV/m) – 54(dBμV/m)  
= -10.46(dB)

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



## Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Jesse Wang, Stan Hsieh and KenWu	Temperature :	21~25°C
		Relative Humidity :	48~53%

### Note symbol

-L	Low channel location
-R	High channel location



**Band 4 - 5725~5825MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5825MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11a CH149 5745MHz</b>	
<b>4+5</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	<p>           Site : 03CH07-11Y            Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL            Detector : Peak            Project : 072112            Mode : 34         </p>	<p>           Site : 03CH07-11Y            Condition : PEAK(LN)1 3m HF_ANT_00075962 HORIZONTAL            Detector : Peak            Project : 072112            Mode : 34         </p>



WIFI	Band 4 5725~5825MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
4+5	Vertical	Fundamental
Peak	<p>Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 072112 Mode : 34</p>	<p>Site : 03CH07-HY Condition : PEAK_UN(I) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 072112 Mode : 34</p>

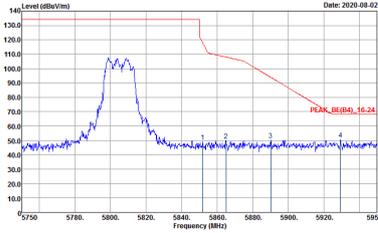
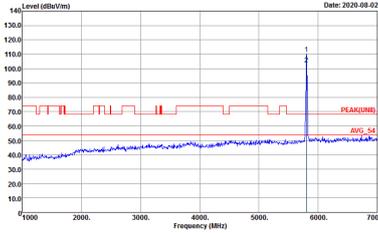


WIFI	Band 4 5725~5825MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
4+5	Horizontal	Fundamental
Peak	<p>Date: 2020-08-02 PEAK_BE(B4)_16-24</p> <p>Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 072112 Mode : 35</p>	<p>Date: 2020-08-02 PEAK(B4)_16-24</p> <p>Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 072112 Mode : 35</p>
Peak	<p>Date: 2020-08-02 PEAK_BE(B4)_16-24</p> <p>Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 072112 Mode : 35</p>	Left blank



WIFI	Band 4 5725~5825MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
4+5	Vertical	Fundamental
Peak	<p>Date: 2020-08-02 PEAK_BE(B4)_16-24</p> <p>Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 072112 Mode : 35</p>	<p>Date: 2020-08-02 PEAK(B4)</p> <p>Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 072112 Mode : 35</p>
Peak	<p>Date: 2020-08-02 PEAK_BE(B4)_16-24</p> <p>Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 072112 Mode : 35</p>	Left blank



WIFI	Band 4 5725~5825MHz Band Edge @ 3m	
ANT	802.11a CH161 5805MHz	
4+5	Horizontal	Fundamental
Peak	 <p>Date: 2020-08-02</p> <p>PEAK_BE(B4)_16-24</p> <p>Site : 03CH07-HY  Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL  Detector : Peak  Project : 072112  Mode : 36</p>	 <p>Date: 2020-08-02</p> <p>PEAK(B4)_16-24</p> <p>Site : 03CH07-HY  Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL  Detector : Peak  Project : 072112  Mode : 36</p>



WIFI	Band 4 5725~5825MHz Band Edge @ 3m	
ANT	802.11a CH161 5805MHz	
4+5	Vertical	Fundamental
Peak	<p>Site : 03CH07-HY            Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL            Detector : Peak            Project : 072112            Mode : 36</p>	<p>Site : 03CH07-HY            Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL            Detector : Peak            Project : 072112            Mode : 36</p>



Band 4 5725~5825MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

Table with 2 columns: Horizontal and Fundamental. Includes spectral plots and technical details like Site, Condition, Detector, Project, and Mode.

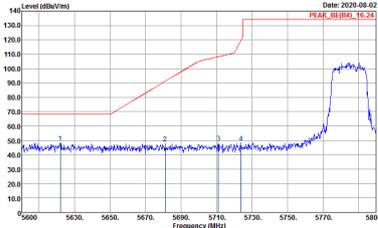
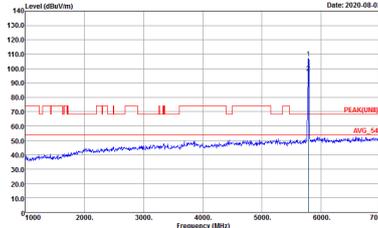
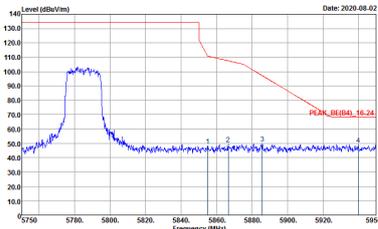


WIFI	Band 4 5725~5825MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
4+5	Vertical	Fundamental
<p><b>Peak</b></p>	<p>Site : 03CH07-HY            Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL            Detector : Peak            Project : 072112            Mode : 37</p>	<p>Site : 03CH07-HY            Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL            Detector : Peak            Project : 072112            Mode : 37</p>



WIFI	Band 4 5725~5825MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
4+5	Horizontal	Fundamental
Peak	<p>Date: 2020-08-02 PEAK_BE(B4)_16-24</p> <p>Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 072112 Mode : 38</p>	<p>Date: 2020-08-02 PEAK(B4)_16-24</p> <p>Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 072112 Mode : 38</p>
Peak	<p>Date: 2020-08-02 PEAK_BE(B4)_16-24</p> <p>Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 072112 Mode : 38</p>	Left blank

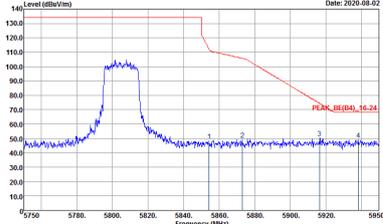
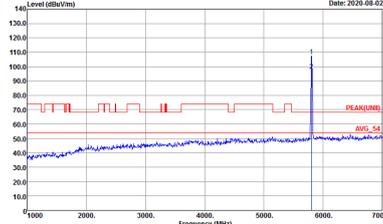


WIFI	Band 4 5725~5825MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
4+5	Vertical	Fundamental
Peak	 <p>Date: 2020-08-02 PEAK_BE(B4)_16-24</p> <p>Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 38</p>	 <p>Date: 2020-08-02</p> <p>Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 38</p>
Peak	 <p>Date: 2020-08-02 PEAK_BE(B4)_16-24</p> <p>Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 38</p>	Left blank



WIFI	Band 4 5725~5825MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH161 5805MHz	
4+5	Horizontal	Fundamental
Peak	<p>Site : 03CH07-HY          Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL          Detector : Peak          Project : 072112          Mode : 39</p>	<p>Site : 03CH07-HY          Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL          Detector : Peak          Project : 072112          Mode : 39</p>



WIFI	Band 4 5725~5825MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH161 5825MHz	
4+5	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Date: 2020-08-02</p> <p>PEAK_BE(B4)_16-24</p> <p>Site : 03CH07-HY            Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL            Detector : Peak            Project : 072112            Mode : 39</p>	 <p>Date: 2020-08-02</p> <p>PEAK(FUN)</p> <p>Site : 03CH07-HY            Condition : PEAK(FUN) 3m HF_ANT_00075962 VERTICAL            Detector : Peak            Project : 072112            Mode : 39</p>



**Band 4 5725~5825MHz**  
**WIFI 802.11ax HE40 Full (Band Edge @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5825MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE40 Full CH151 5755MHz</b>	
<b>4+5</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	<p>Site : 03CH07-HY          Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL          Detector : Peak          Project : 072112          Mode : 40</p>	<p>Site : 03CH07-HY          Condition : PEAK(LINB) 3m HF_ANT_00075962 HORIZONTAL          Detector : Peak          Project : 072112          Mode : 40</p>
<b>Peak</b>	<p>Site : 03CH07-HY          Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL          Detector : Peak          Project : 072112          Mode : 40</p>	<b>Left blank</b>



WIFI	Band 4 5725~5825MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
4+5	Vertical	Fundamental
Peak	<p>Date: 2020-08-01 PEAK_BE(B4)_16-24</p> <p>Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 40</p>	<p>Date: 2020-08-01 PEAK(B4)_16-24</p> <p>Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 40</p>
Peak	<p>Date: 2020-08-01 PEAK_BE(B4)_16-24</p> <p>Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 40</p>	Left blank



WIFI	Band 4 5725~5825MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
4+5	Horizontal	Fundamental
Peak	<p>Site : 03CH07-HY            Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL            Detector : Peak            Project : 072112            Mode : 41</p>	<p>Site : 03CH07-HY            Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL            Detector : Peak            Project : 072112            Mode : 41</p>
Peak	<p>Site : 03CH07-HY            Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL            Detector : Peak            Project : 072112            Mode : 41</p>	Left blank



WIFI	Band 4 5725~5825MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
4+5	Vertical	Fundamental
Peak	<p>Date: 2020-08-01 PEAK_BE(B4)_16-24</p> <p>Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 072112 Mode : 41</p>	<p>Date: 2020-08-01 PEAK(B4)_16-24</p> <p>Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 072112 Mode : 41</p>
Peak	<p>Date: 2020-08-01 PEAK_BE(B4)_16-24</p> <p>Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 072112 Mode : 41</p>	Left blank



**Band 4 5725~5825MHz**  
**WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)**

WIFI	Band 4 5725~5825MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
4+5	Horizontal	Fundamental
Peak	<p>Site : 03CH07-HY          Condition : PEAK_BE(B4)_16-24 3m HF_ANT_0007962 HORIZONTAL          Detector : Peak          Project : 072112          Mode : 70</p>	<p>Site : 03CH07-HY          Condition : PEAK(LINE) 3m HF_ANT_0007962 HORIZONTAL          Detector : Peak          Project : 072112          Mode : 70</p>
Peak	<p>Site : 03CH07-HY          Condition : PEAK_BE(B4)_16-24 3m HF_ANT_0007962 HORIZONTAL          Detector : Peak          Project : 072112          Mode : 70</p>	Left blank



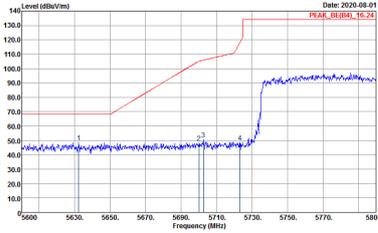
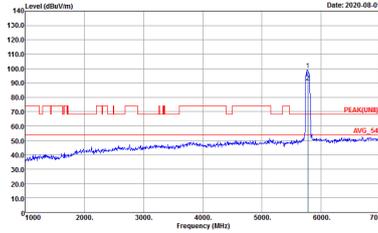
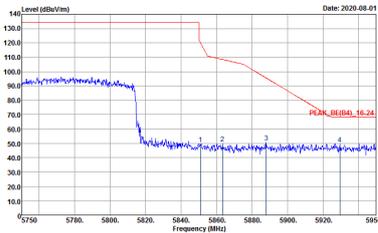
WIFI	Band 4 5725~5825MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
4+5	Vertical	Fundamental
Peak	<p>Site : 03CH07-HY            Condition : PEAK_BE(04)_16-24 3m HF_ANT_00075962 VERTICAL            Detector : Peak            Project : 072112            Mode : 70</p>	<p>Site : 03CH07-HY            Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL            Detector : Peak            Project : 072112            Mode : 70</p>
Peak	<p>Site : 03CH07-HY            Condition : PEAK_BE(04)_16-24 3m HF_ANT_00075962 VERTICAL            Detector : Peak            Project : 072112            Mode : 70</p>	Left blank



**Band 4 5725~5825MHz**  
**WIFI 802.11ax HE80 Full (Band Edge @ 3m)**

WIFI	<b>Band 4 5725~5825MHz Band Edge @ 3m</b>	
ANT	<b>802.11ax HE80 Full CH155 5775MHz</b>	
<b>4+5</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	<p>Site : 03CH07-HY          Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL          Detector : Peak          Project : 072112          Mode : 42</p>	<p>Site : 03CH07-HY          Condition : PEAK(LIN) 3m HF_ANT_00075962 HORIZONTAL          Detector : Peak          Project : 072112          Mode : 42</p>
<b>Peak</b>	<p>Site : 03CH07-HY          Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 HORIZONTAL          Detector : Peak          Project : 072112          Mode : 42</p>	<b>Left blank</b>



WIFI	Band 4 5725~5825MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
4+5	Vertical	Fundamental
Peak	 <p>Date: 2020-08-01 PEAK_BE(B4)_16-24</p> <p>Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 072112 : 42</p>	 <p>Date: 2020-08-01 PEAK(B4)</p> <p>Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 072112 : 42</p>
Peak	 <p>Date: 2020-08-01 PEAK_BE(B4)_16-24</p> <p>Site : 03CH07-HY Condition : PEAK_BE(B4)_16-24 3m HF_ANT_00075962 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 072112 : 42</p>	Left blank



Band 4 - 5725~5825MHz
WIFI 802.11a (Harmonic @ 3m)

Table with 2 columns: Horizontal and Vertical. Rows include: WIFI (Band 4 5725~5825MHz Harmonic @ 3m), ANT (802.11a CH149 5745MHz), 4+5, and Peak/Avg. Each column contains a spectral plot and technical details.



WIFI	Band 4 5725~5825MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
4+5	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 072112 Mode : 35</p>	<p>Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 072112 Mode : 35</p>



WIFI	Band 4 5725~5825MHz Harmonic @ 3m	
ANT	802.11a CH161 5805MHz	
4+5	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 072112 Mode : 36</p>	<p>Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 072112 Mode : 36</p>



**Band 4 5725~5825MHz**  
**WIFI 802.11ax HE20 Full (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5825MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE20 Full CH149 5745MHz</b>	
<b>4+5</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak</b> <b>Avg.</b>		



WIFI	Band 4 5725~5825MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
4+5	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 072112 Mode : 38</p>	<p>Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 072112 Mode : 38</p>



<b>WIFI</b>	<b>Band 4 5725~5825MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE20 Full CH161 5805MHz</b>	
<b>4+5</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 072112 Mode : 39</p>	<p>Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 072112 Mode : 39</p>



Band 4 5725~5825MHz
WIFI 802.11ax HE40 Full (Harmonic @ 3m)

Table with 4 columns: WIFI, ANT, 4+5, and two measurement plots (Horizontal and Vertical). Includes 'Peak' and 'Avg.' labels and technical details like Site, Condition, Detector, Project, and Mode.



<b>WIFI</b>	<b>Band 4 5725~5825MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE40 Full CH159 5795MHz</b>	
<b>4+5</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_0007596Z HORIZONTAL Detector : Peak Project : 072112 Mode : 41</p>	<p>Site : 03CH07-HY Condition : PEAK(UNI) 3m HF_ANT_0007596Z VERTICAL Detector : Peak Project : 072112 Mode : 41</p>



**Band 4 5725~5825MHz  
WIFI 802.11ax HE80 Full (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5825MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE80 Full CH155 5775MHz</b>	
<b>4+5</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH07-HY          Condition : PEAK(UNI) 3m HF_ANT_00075962 HORIZONTAL          Detector : Peak          Project : 072112          Mode : 42</p>	<p>Site : 03CH07-HY          Condition : PEAK(UNI) 3m HF_ANT_00075962 VERTICAL          Detector : Peak          Project : 072112          Mode : 42</p>



Emission above 18GHz  
5GHz WIFI 802.11a (SHF)

WIFI	5GHz WIFI	
ANT	802.11a SHF	
4+5	Horizontal	Vertical
QP / Peak	<p>Site : 03CM07-01 Condition : PEAK(UNII) 1m SHF-EHF_9170584 HORIZONTAL Detector : Peak Project : 072112 Mode : 79</p>	<p>Site : 03CM07-01 Condition : PEAK(UNII) 1m SHF-EHF_9170584 VERTICAL Detector : Peak Project : 072112 Mode : 79</p>



Emission below 1GHz
5GHz WIFI 802.11a (LF)

Table with 2 columns: WIFI (4+5), ANT (802.11a LF). Sub-columns: Horizontal, Vertical. Contains two graphs showing Level (dBuV/m) vs Frequency (MHz) for QP / Peak. Includes site and condition details for both orientations.



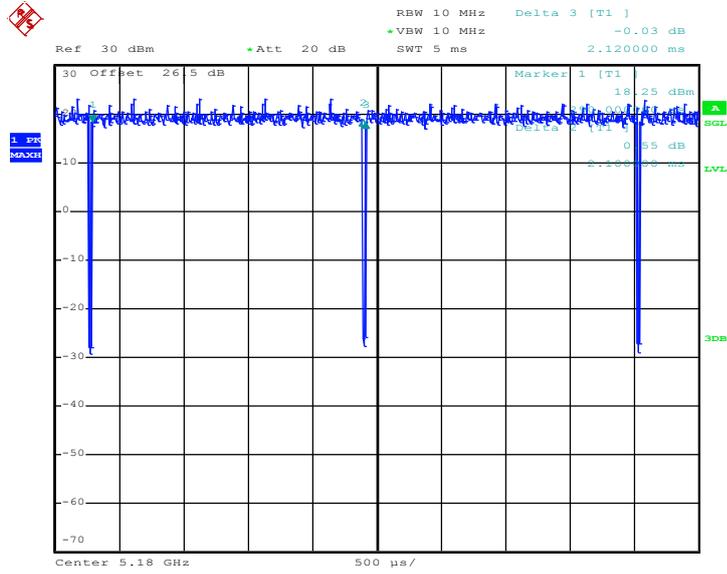
### Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
4+5	802.11a for Ant. 4	99.06	-	-	10Hz	0.04
4+5	802.11a for Ant. 5	98.82	-	-	10Hz	0.05
4+5	5GHz 802.11ax HE20 Full RU for Ant. 4	100.00	-	-	10Hz	0.00
4+5	5GHz 802.11ax HE20 Full RU for Ant. 5	100.00	-	-	10Hz	0.00
4+5	5GHz 802.11ax HE40 Full RU for Ant. 4	100.00	-	-	10Hz	0.00
4+5	5GHz 802.11ax HE40 Full RU for Ant. 5	100.00	-	-	10Hz	0.00
4+5	5GHz 802.11ax HE40 242 RU for Ant. 4	100.00	-	-	10Hz	0.00
4+5	5GHz 802.11ax HE40 242 RU for Ant. 5	100.00	-	-	10Hz	0.00
4+5	5GHz 802.11ax HE80 Full RU for Ant. 4	100.00	-	-	10Hz	0.00
4+5	5GHz 802.11ax HE80 Full RU for Ant. 5	100.00	-	-	10Hz	0.00



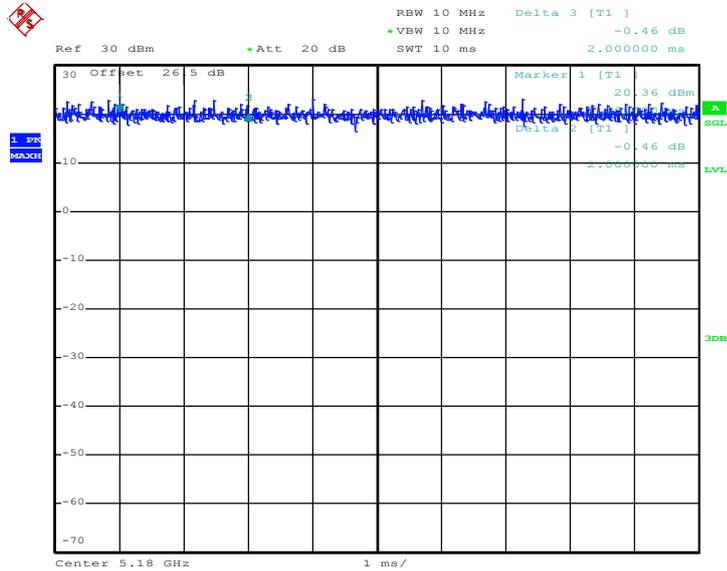
MIMO <Ant. 4>

802.11a



Date: 29.JUL.2020 15:49:39

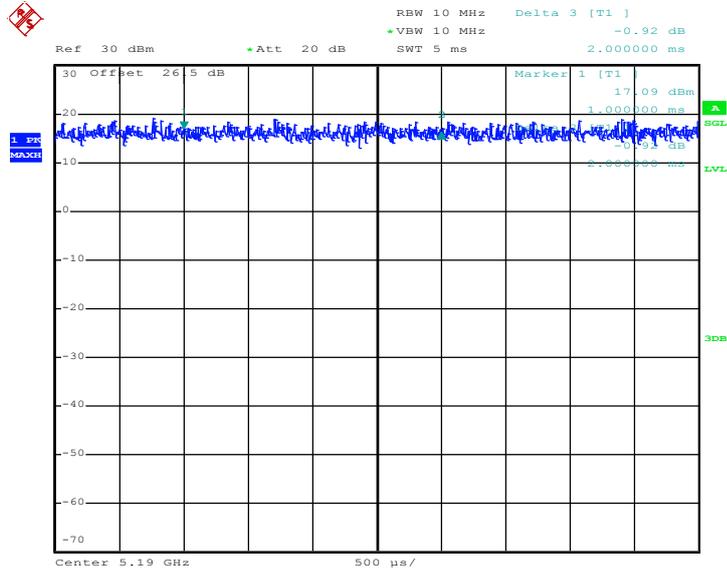
802.11ax HE20 Full RU



Date: 29.JUL.2020 16:45:23

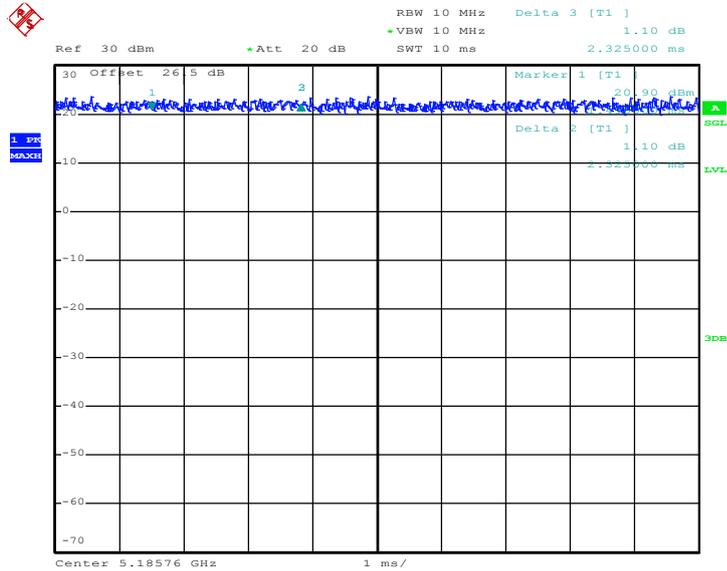


802.11ax HE40 Full RU



Date: 29.JUL.2020 16:54:18

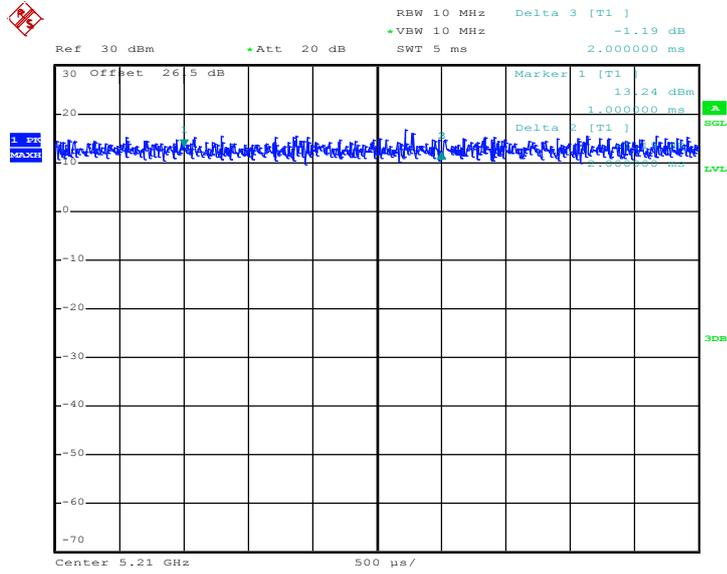
802.11ax HE40 242 RU



Date: 18.AUG.2020 16:08:35



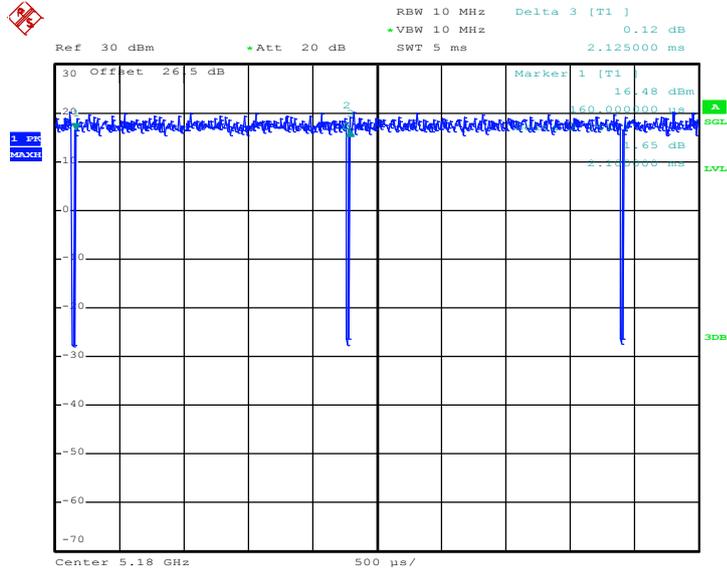
802.11ax HE80 Full RU



Date: 29.JUL.2020 17:43:55

MIMO <Ant. 5>

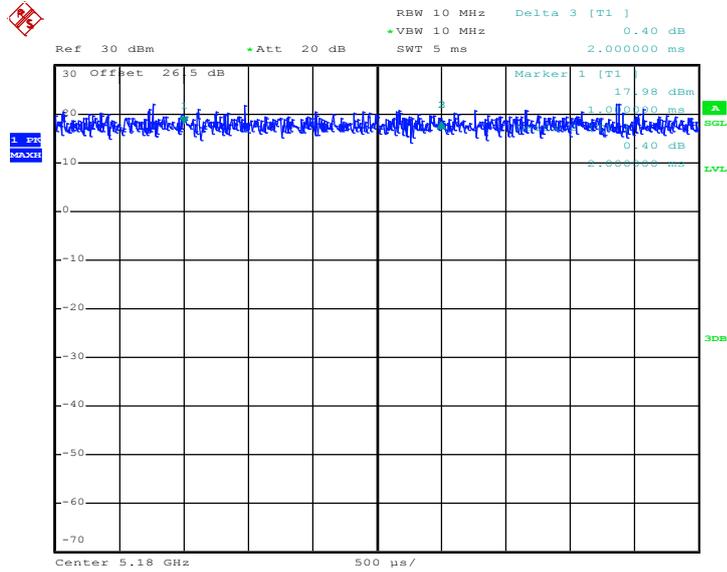
802.11a



Date: 29.JUL.2020 15:50:59

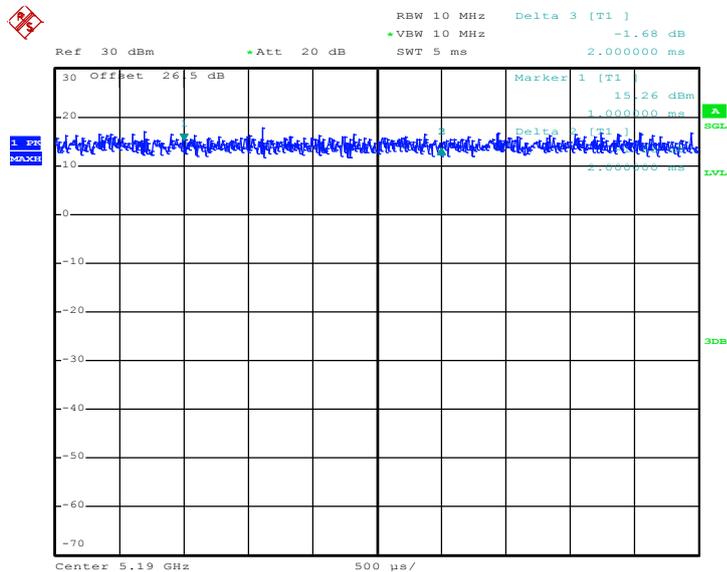


802.11ax HE20 Full RU



Date: 29.JUL.2020 16:48:53

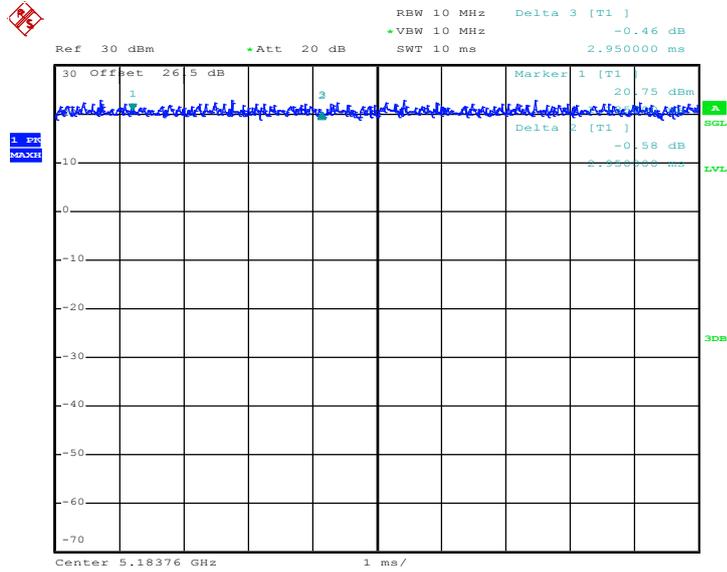
802.11ax HE40 Full RU



Date: 29.JUL.2020 16:55:57

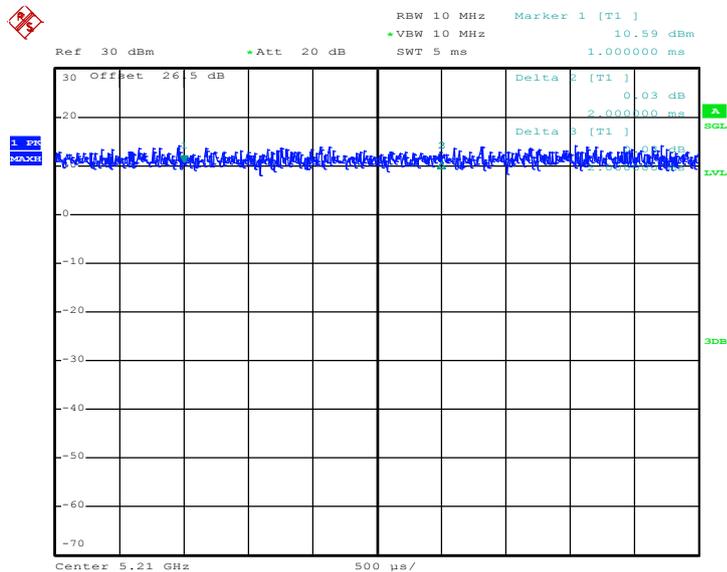


802.11ax HE40 242 RU



Date: 18.AUG.2020 16:10:20

802.11ax HE80 Full RU



Date: 29.JUL.2020 17:46:08