



# FCC RADIO TEST REPORT

**FCC ID** : UZ7TC520L  
**Equipment** : Touch Computer  
**Brand Name** : Zebra  
**Model Name** : TC520L  
**Applicant** : Zebra Technologies Corporation  
 1 Zebra Plaza, Holtsville, NY 11742  
**Manufacturer** : Zebra Technologies Corporation  
 1 Zebra Plaza, Holtsville, NY 11742  
**Standard** : FCC Part 15 Subpart E §15.407

The product was received on Feb. 19, 2021 and testing was started from Mar. 26, 2021 and completed on May 19, 2021. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

*Louis Wu*

Approved by: Louis Wu

**Sporton International Inc. Wensan Laboratory**

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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### History of this test report

Report No.	Version	Description	Issued Date
FR122002F	01	Initial issue of report	May 27, 2021



## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 2.13 dB at 5643.750 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 15.91 dB at 0.503 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: Lucy Wu**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Touch Computer
Brand Name	Zebra
Model Name	TC520L
FCC ID	UZ7TC520L
EUT supports Radios application	NFC WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 WLAN 11ax HE20/HE40/HE80 Bluetooth BR/EDR/LE
HW Version	DV
SW Version	11-09-22.00-RG-U00-PRD-HEL-04
FW Version	FUSION_SA_2_1.1.0.012_R
MFD	07APR21
EUT Stage	Identical Prototype

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

Specification of Accessories				
Adapter	Brand Name	Zebra	Part Number	PWR-WUA5V12W0US
Battery 1	Brand Name	Zebra	Part Number	BT-000314-01
Battery 2	Brand Name	Zebra	Part Number	BT-000314-50
Rugged Charge/USB cable	Brand Name	Zebra	Part Number	CBL-TC51-USB1-01
Headset Jumper 1	Brand Name	Zebra	Part Number	CBL-TC51-HDST25-01
Headset Jumper 2	Brand Name	Zebra	Part Number	CBL-TC51-HDST35-01
2.5mm Earphone	Brand Name	Zebra	Part Number	HDST-25MM-PTVP-01
3.5mm Earphone	Brand Name	Zebra	Part Number	HDST-35MM-PTVP-01
Exoskeleton	Brand Name	Zebra	Part Number	SG-TC51-EX01-01
Trigger Handle	Brand Name	Zebra	Part Number	TRG-TC51-SNP1-01
Soft Holster	Brand Name	Zebra	Part Number	SG-TC51-HLSTR1-01
Hand strap	Brand Name	Zebra	Part Number	SG-TC51-BHDSTP1-03
USB-C Adaptor	Brand Name	Zebra	Part Number	ADPTR-TC56-USBC-01
USB Type C cable	Brand Name	Zebra	Part Number	N/A



## 1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard	
<b>Tx/Rx Frequency Range</b>	5745 MHz ~ 5825 MHz
<b>Maximum Output Power to Antenna &lt;CDD Mode&gt;</b>	<b>MIMO &lt;Ant. 1+2&gt;</b> 802.11a: 21.36 dBm / 0.1368 W 802.11n HT20: 21.21 dBm / 0.1322 W 802.11n HT40: 21.00 dBm / 0.1259 W 802.11ac VHT20: 21.21 dBm / 0.1322 W 802.11ac VHT40: 21.11 dBm / 0.1292 W 802.11ac VHT80: 21.46 dBm / 0.1400 W 802.11ax HE20: 21.36 dBm / 0.1368 W 802.11ax HE40: 21.16 dBm / 0.1306 W 802.11ax HE80: 21.46 dBm / 0.1400 W
<b>Maximum Output Power to Antenna &lt;TXBF Mode&gt;</b>	<b>MIMO &lt;Ant. 1+2&gt;</b> 802.11ax HE20: 21.21 dBm / 0.1322 W 802.11ax HE40: 21.11 dBm / 0.1291 W 802.11ax HE80: 19.06 dBm / 0.0805 W
<b>99% Occupied Bandwidth &lt;CDD Mode&gt;</b>	<b>MIMO&lt;Ant. 1&gt;</b> 802.11a: 18.33 MHz 802.11ax HE20: 19.13 MHz 802.11ac HE40: 38.16 MHz 802.11ac HE80: 78.64 MHz <b>MIMO&lt;Ant. 2&gt;</b> 802.11a: 17.13 MHz 802.11ax HE20: 19.03 MHz 802.11ac HE40: 37.96 MHz 802.11ac HE80: 78.40 MHz
<b>99% Occupied Bandwidth &lt;TXBF Mode&gt;</b>	<b>MIMO &lt;Ant. 1&gt;</b> 802.11ax HE20: 19.18 MHz 802.11ac HE40: 38.16 MHz 802.11ac HE80: 78.40 MHz <b>MIMO &lt;Ant. 2&gt;</b> 802.11ax HE20: 19.13 MHz 802.11ac HE40: 38.16 MHz 802.11ac HE80: 78.40 MHz
<b>Antenna Type</b>	<b>Ant. 1</b> : PIFA Antenna <b>Ant. 2</b> : PIFA Antenna
<b>Antenna Gain</b>	Ant. 1 : 3.0 dBi Ant. 2 : 2.8 dBi



Product Specification subjective to this standard			
Type of Modulation	802.11a/n: OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM) 802.11ax: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)		
Antenna Function Description		Ant. 1	Ant. 2
	802.11 a/n/ac/ax MIMO	V	V
	802.11 ax TXBF	V	V

**Note:**

1. MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.
2. The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

### 1.3 Modification of EUT

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

### 1.4 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.	<b>Sporton Site No.</b> CO05-HY (TAF Code: 1190)
Remark	The AC Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	<b>Sporton Site No.</b> TH05-HY, 03CH11-HY

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

FCC designation No.: TW1190 and TW3786



## **1.5 Applicable Standards**

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

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

**Remark:**

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





## 2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y Plane for TXBF Mode; Z Plane for CDD Mode) 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)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

**Note:**

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



## 2.2 Test Mode

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

### CDD Mode

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

### TXBF Mode

Modulation	Data Rate
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

Test Cases	
<b>AC Conducted Emission</b>	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + Battery 1 + Scanner + Headset Jumper 1 + 2.5mm Earphone + Rugged Charge/USB cable + Adapter
<b>Remark:</b> For Radiated Test Cases, the tests were performed with Battery 1.	

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

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



<CDD Mode>

MIMO <Ant. 1+2>

802.11a RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		6M		9M	12M	18M	24M	36M	48M	54M
CH 149	5745	21.36	CH 149	21.11	21.11	21.11	21.16	21.11	21.16	21.11
CH 157	5785	21.31								
CH 165	5825	21.21								

802.11n HT20 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 149	5745	21.21	CH 149	21.16	21.16	21.06	21.11	21.06	21.16	21.11
CH 157	5785	21.11								
CH 165	5825	21.11								

802.11n HT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 151	5755	21.00	CH 151	20.96	20.96	20.96	20.96	20.96	20.96	20.96
CH 159	5795	20.86								

802.11ac VHT20 RF Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index							
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8
CH 149	5745	21.21	CH 149	21.16	21.11	21.11	20.91	20.96	20.96	21.01	20.96
CH 157	5785	21.16									
CH 165	5825	21.06									



802.11ac VHT40 RF Output Power (dBm)												
Power vs. Channel			Power vs Data Rate									
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index								
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 151	5755	20.91	CH 159	20.91	20.86	20.86	20.91	20.91	20.96	20.91	20.96	20.96
CH 159	5795	21.11										

802.11ac VHT80 RF Output Power (dBm)												
Power vs. Channel			Power vs Data Rate									
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index								
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9
CH 155	5775	21.46	CH 155	21.31	21.36	21.36	21.36	21.36	21.27	21.31	21.31	21.26

802.11ax HE20 RF Output Power (dBm)														
Power vs. Channel				Power vs Data Rate										
Channel	Frequency (MHz)	RU Config.	MCS Index	Channel	MCS Index									
			MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10
CH 149	5745	Full	21.36	CH 149										
CH 149	5745	26/0	13.26											
CH 149	5745	52/37	16.56											
CH 149	5745	106/53	19.86											
CH 157	5785	Full	21.26											
CH 157	5785	26/4	13.37											
CH 157	5785	52/38	16.57											
CH 157	5785	106/53	19.77											
CH 157	5785	Full	21.26											
CH 157	5785	26/8	13.01											
CH 157	5785	52/40	16.26											
CH 165	5825	106/54	19.16											



802.11ax HE40 RF Output Power (dBm)															
Power vs. Channel				Power vs Data Rate											
Channel	Frequency (MHz)	RU Config.	MCS Index	Channel	MCS Index										
			MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
CH 151	5755	Full	21.06	CH 159	21.01	21.06	21.11	21.11	21.11	21.11	21.06	21.06	21.11	21.06	21.11
CH 151	5755	242/61	18.36												
CH 159	5795	Full	21.16												
CH 159	5795	242/62	18.07												

802.11ax HE80 RF Output Power (dBm)															
Power vs. Channel				Power vs Data Rate											
Channel	Frequency (MHz)	RU Config.	MCS Index	Channel	MCS Index										
			MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
CH 155	5775	Full	21.46	CH 155	21.36	21.41	21.36	21.36	21.36	21.36	21.36	21.41	21.36	21.41	21.36
CH 155	5775	484/65	18.81												
CH 155	5775	484/66	18.41												

<TXBF Mode>

MIMO <Ant. 1+2>

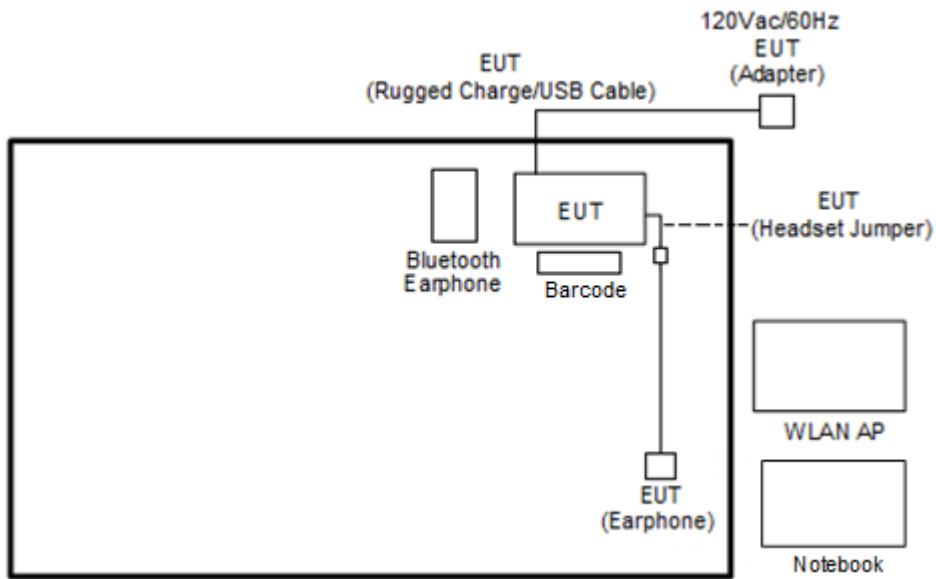
802.11ax HE20 RF Output Power (dBm)															
Power vs. Channel				Power vs Data Rate											
Channel	Frequency (MHz)	RU Config.	MCS Index	Channel	MCS Index										
			MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
CH 149	5745	Full	20.91	CH 157	21.16	21.16	20.66	20.81	20.81	20.76	20.66	20.81	20.71	20.71	20.71
CH 157	5785	Full	20.87												
CH 157	5785	Full	21.21												

802.11ax HE40 RF Output Power (dBm)															
Power vs. Channel				Power vs Data Rate											
Channel	Frequency (MHz)	RU Config.	MCS Index	Channel	MCS Index										
			MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
CH 151	5755	Full	21.01	CH 159	21.06	21.06	21.06	20.61	20.61	20.56	20.56	20.56	20.56	20.56	20.56
CH 159	5795	Full	21.11												

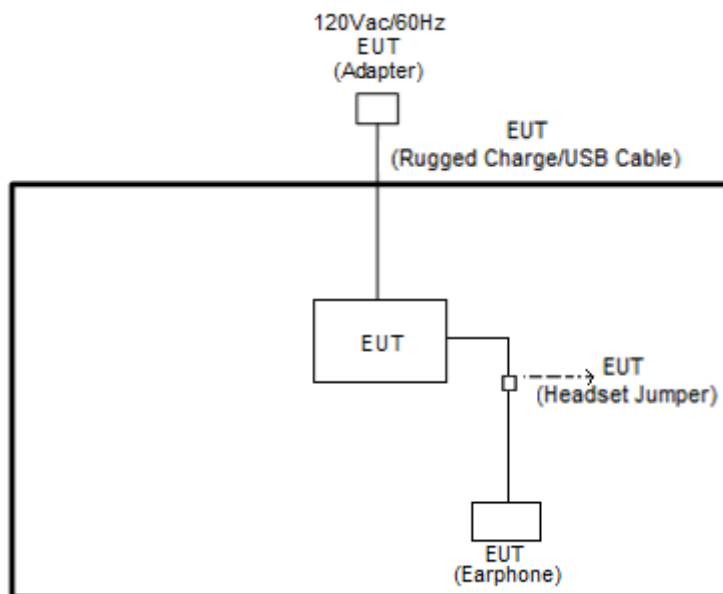
802.11ax HE80 RF Output Power (dBm)															
Power vs. Channel				Power vs Data Rate											
Channel	Frequency (MHz)	RU Config.	MCS Index	Channel	MCS Index										
			MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
CH 155	5775	Full	19.06	CH 155	18.96	18.96	18.96	18.96	18.96	18.96	19.01	18.96	19.01	19.01	19.01

## 2.3 Connection Diagram of Test System

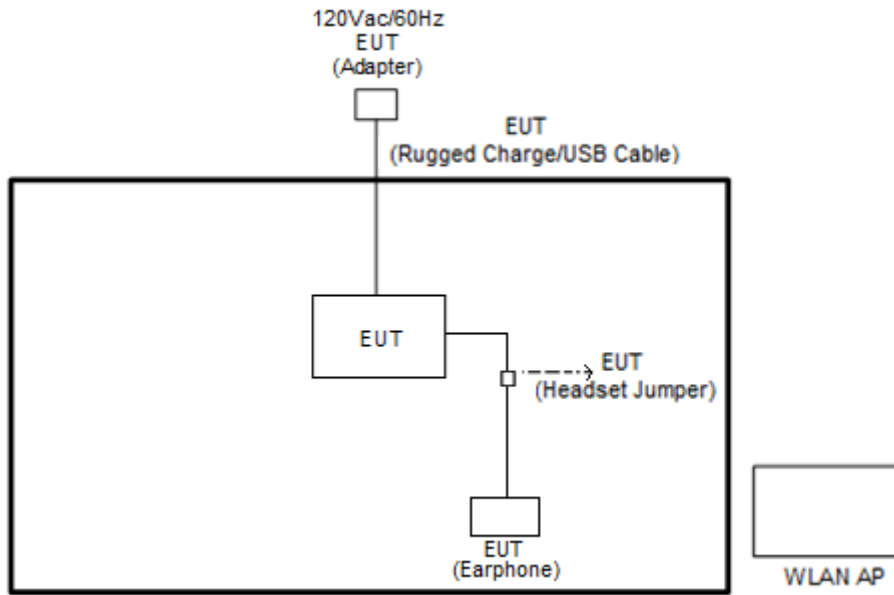
<AC Conducted Emission Mode>



<CDD Mode>



<TXBF Mode>



## 2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	WLAN AP	ASUS	RT-AX88U	MSQ-RTAXHP00	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
5.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	Notebook	DELL	PP42L	FCC DoC	N/A	AC I/P: Unshielded, 0.8 m DC O/P: Shielded, 1.77 m
7.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
8.	Barcode	N/A	N/A	N/A	N/A	N/A



## 2.5 EUT Operation Test Setup

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

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

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

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

Example :

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

*Offset = RF cable loss + attenuator factor.*

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

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



### 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.

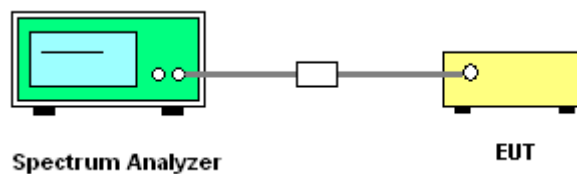
##### 3.1.2 Measuring Instruments

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 5.725-5.85 GHz
2. Set RBW = 100 kHz.
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

Test Engineer :	Derek Hsu	Temperature :	23.1~24.7°C
		Relative Humidity :	55.0~58.8%

<CDD Mode>

Band IV MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	149	5745	18.23	17.13	37.60	28.23	16.30	16.29	0.5	Pass
11a	6Mbps	2	157	5785	18.33	16.98	38.68	27.50	16.09	16.29	0.5	Pass
11a	6Mbps	2	165	5825	18.03	16.93	37.02	27.07	16.04	16.29	0.5	Pass

Band IV MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	149	5745	Full	19.13	19.03	32.18	29.88	17.49	18.29	0.5	Pass
HE20	MCS0	2	157	5785	Full	19.13	18.93	37.94	23.34	17.84	18.34	0.5	Pass
HE20	MCS0	2	165	5825	Full	19.13	18.93	37.94	23.19	18.55	18.24	0.5	Pass
HE40	MCS0	2	151	5755	Full	38.16	37.96	48.33	48.95	37.80	37.62	0.5	Pass
HE40	MCS0	2	159	5795	Full	37.96	37.76	52.13	42.80	37.71	37.60	0.5	Pass
HE80	MCS0	2	155	5775	Full	78.64	78.40	82.24	81.92	77.76	77.56	0.5	Pass

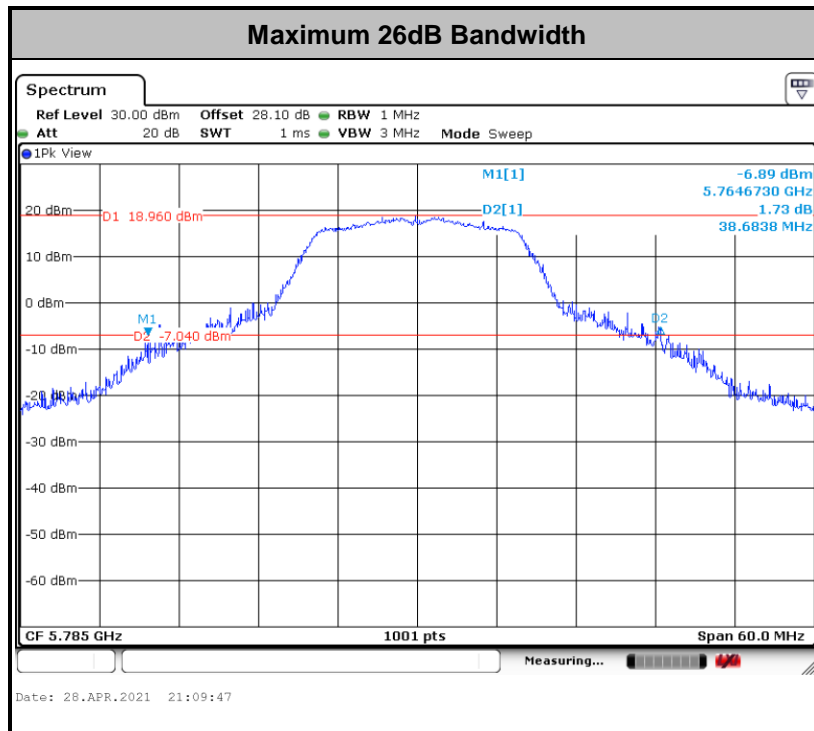
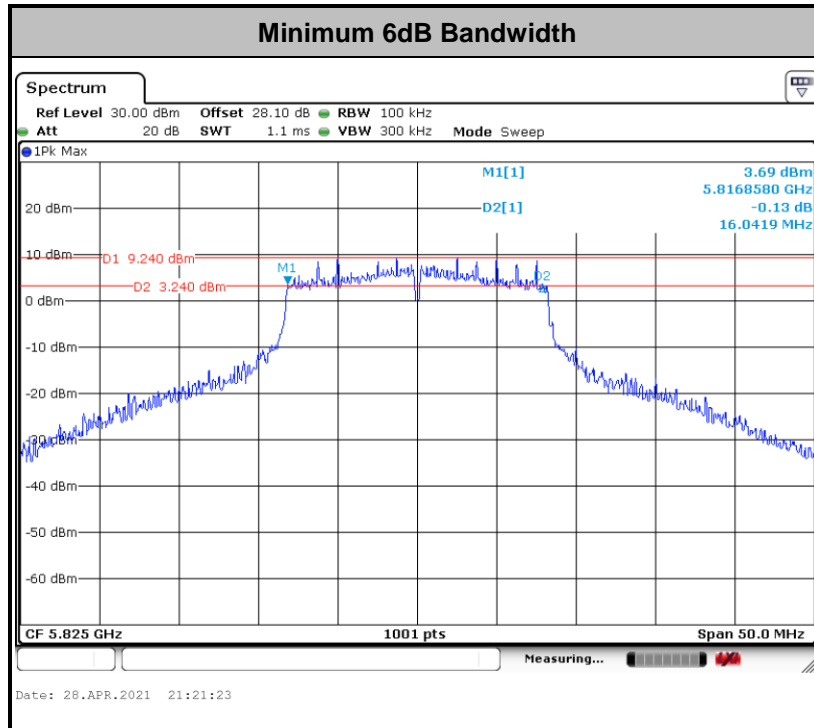


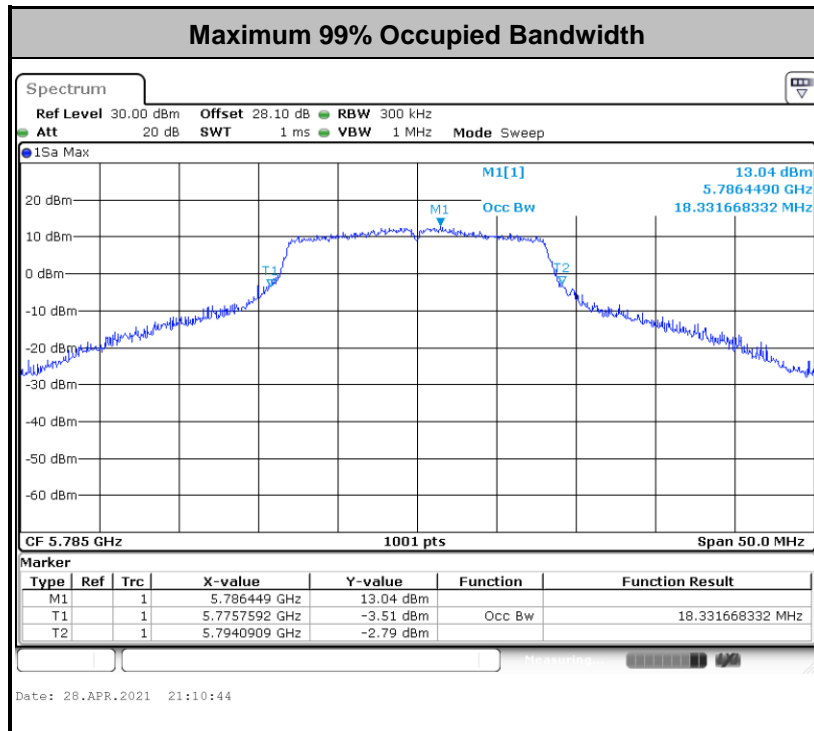
<TXBF Mode>

Band IV MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
HE20	MCS0	2	149	5745	Full	19.18	19.13	32.65	35.88	18.59	18.59	0.5	Pass
HE20	MCS0	2	157	5785	Full	19.18	19.13	36.35	29.98	18.34	17.64	0.5	Pass
HE20	MCS0	2	165	5825	Full	19.18	19.13	33.11	29.91	18.34	16.75	0.5	Pass
HE40	MCS0	2	151	5755	Full	38.16	38.16	78.79	70.72	37.89	37.51	0.5	Pass
HE40	MCS0	2	159	5795	Full	38.06	37.86	64.30	63.73	37.53	37.35	0.5	Pass
HE80	MCS0	2	155	5775	Full	78.40	78.40	84.16	83.36	77.76	76.96	0.5	Pass



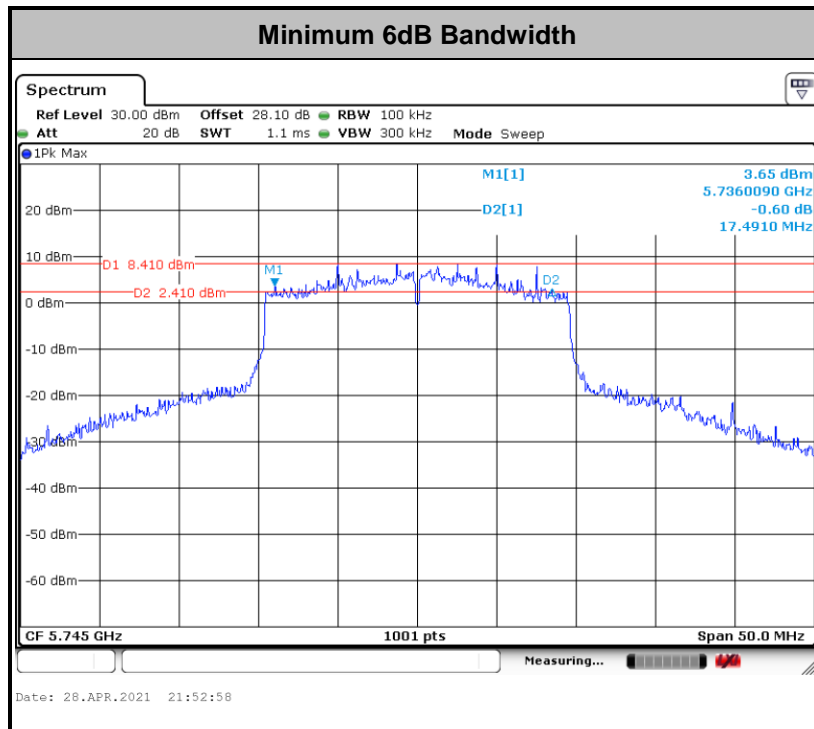
<CDD Mode>

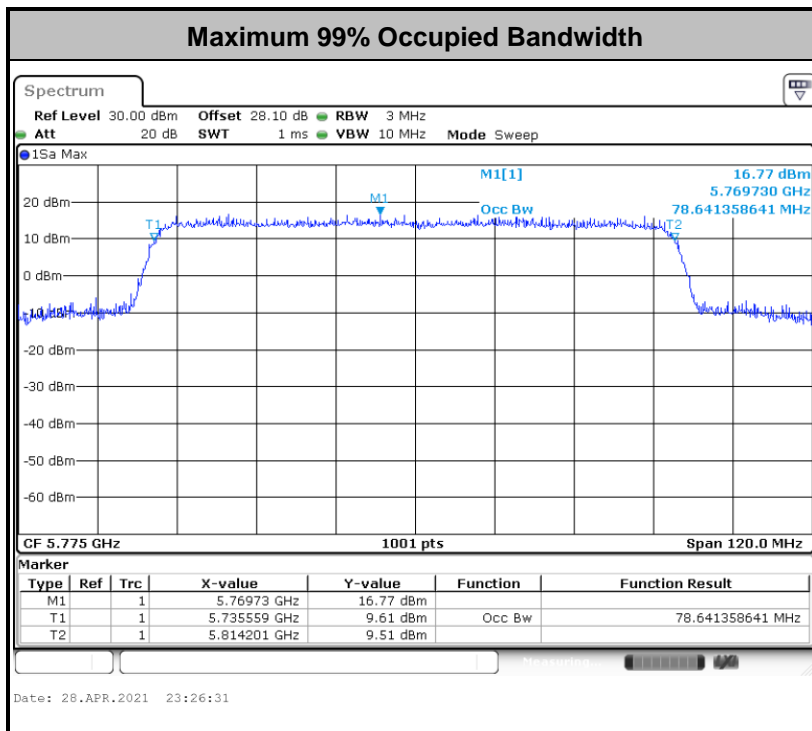
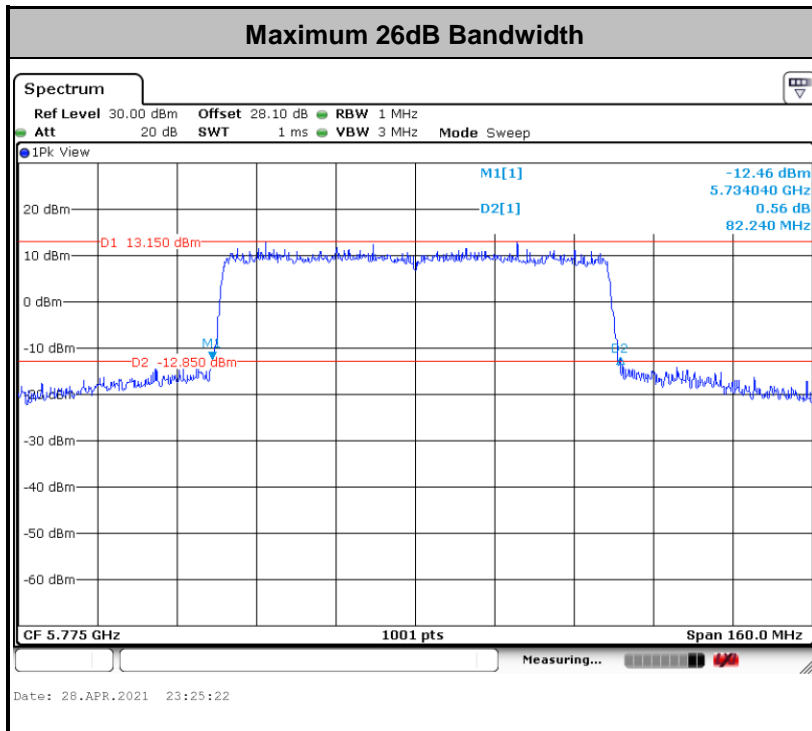




**Note:** The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax Mode>

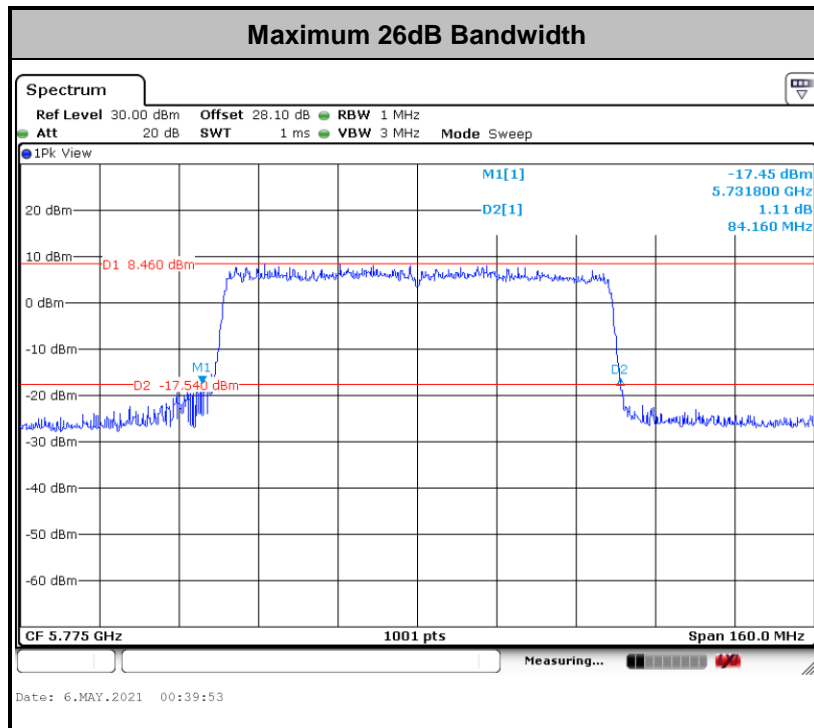
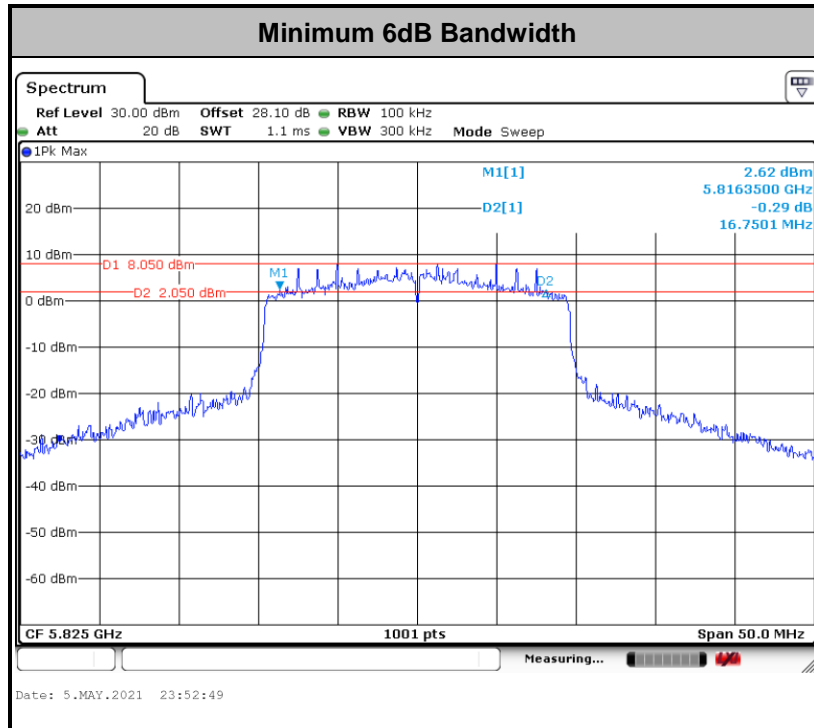


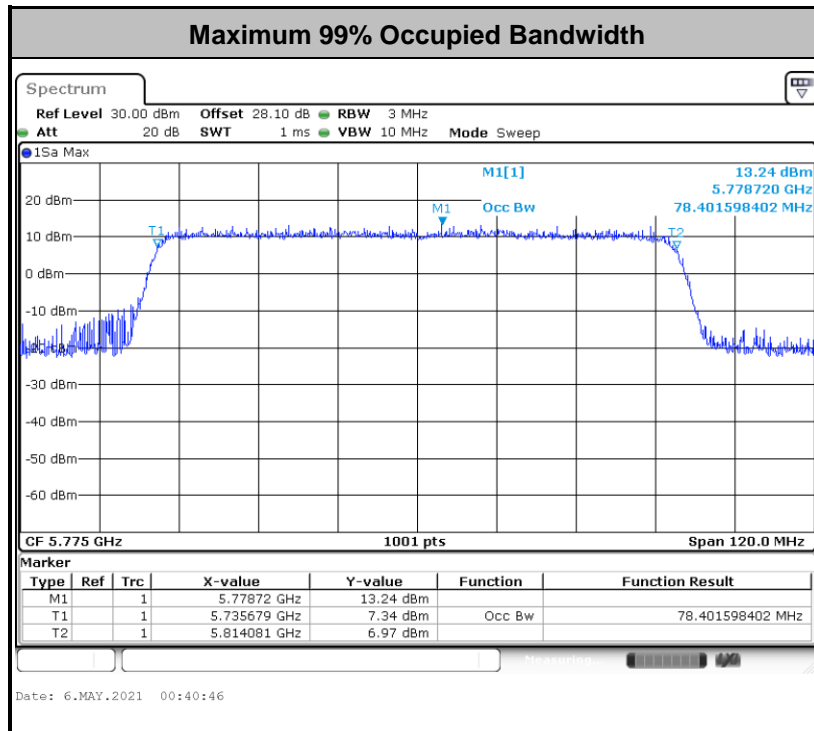


**Note:** The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



<TXBF Mode>





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





## 3.2 Maximum Conducted Output Power Measurement

### 3.2.1 Limit of Maximum Conducted Output Power

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

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

### 3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

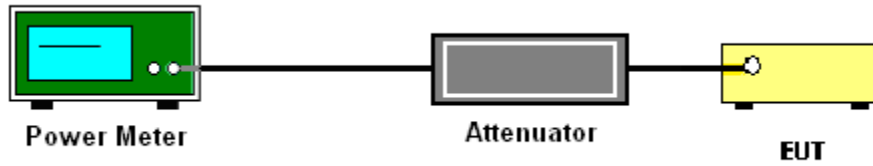
### 3.2.3 Test Procedures

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.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Test Engineer :	Derek Hsu	Temperature :	23.1~24.7°C
		Relative Humidity :	55.0~58.8%

<CDD Mode>

Band IV MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	18.30	18.40	21.36	30.00	3.00		Pass	
11a	6Mbps	2	157	5785	18.40	18.20	21.31	30.00	3.00		Pass	
11a	6Mbps	2	165	5825	18.30	18.10	21.21	30.00	3.00		Pass	
HT20	MCS0	2	149	5745	18.10	18.30	21.21	30.00	3.00		Pass	
HT20	MCS0	2	157	5785	18.20	18.00	21.11	30.00	3.00		Pass	
HT20	MCS0	2	165	5825	18.10	18.10	21.11	30.00	3.00		Pass	
HT40	MCS0	2	151	5755	17.90	18.08	21.00	30.00	3.00		Pass	
HT40	MCS0	2	159	5795	17.70	18.00	20.86	30.00	3.00		Pass	
VHT20	MCS0	2	149	5745	18.10	18.30	21.21	30.00	3.00		Pass	
VHT20	MCS0	2	157	5785	18.30	18.00	21.16	30.00	3.00		Pass	
VHT20	MCS0	2	165	5825	18.10	18.00	21.06	30.00	3.00		Pass	
VHT40	MCS0	2	151	5755	17.70	18.10	20.91	30.00	3.00		Pass	
VHT40	MCS0	2	159	5795	18.00	18.20	21.11	30.00	3.00		Pass	
VHT80	MCS0	2	155	5775	18.35	18.55	21.46	30.00	3.00		Pass	



<802.11ax Mode>

Band IV MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	18.30	18.40	21.36	30.00	30.00	3.00	3.00	Pass
HE20	MCS0	2	149	5745	26/0	10.30	10.20	13.26	30.00	30.00	3.00	3.00	Pass
HE20	MCS0	2	149	5745	52/37	13.60	13.50	16.56	30.00	30.00	3.00	3.00	Pass
HE20	MCS0	2	149	5745	106/53	16.70	17.00	19.86	30.00	30.00	3.00	3.00	Pass
HE20	MCS0	2	157	5785	Full	18.40	18.10	21.26	30.00	30.00	3.00	3.00	Pass
HE20	MCS0	2	157	5785	26/4	10.70	10.00	13.37	30.00	30.00	3.00	3.00	Pass
HE20	MCS0	2	157	5785	52/38	13.80	13.30	16.57	30.00	30.00	3.00	3.00	Pass
HE20	MCS0	2	157	5785	106/53	17.00	16.50	19.77	30.00	30.00	3.00	3.00	Pass
HE20	MCS0	2	165	5825	Full	18.30	18.20	21.26	30.00	30.00	3.00	3.00	Pass
HE20	MCS0	2	165	5825	26/8	10.20	9.80	13.01	30.00	30.00	3.00	3.00	Pass
HE20	MCS0	2	165	5825	52/40	13.40	13.10	16.26	30.00	30.00	3.00	3.00	Pass
HE20	MCS0	2	165	5825	106/54	16.30	16.00	19.16	30.00	30.00	3.00	3.00	Pass
HE40	MCS0	2	151	5755	Full	17.90	18.20	21.06	30.00	30.00	3.00	3.00	Pass
HE40	MCS0	2	151	5755	242/61	15.40	15.30	18.36	30.00	30.00	3.00	3.00	Pass
HE40	MCS0	2	159	5795	Full	18.10	18.20	21.16	30.00	30.00	3.00	3.00	Pass
HE40	MCS0	2	159	5795	242/62	15.30	14.80	18.07	30.00	30.00	3.00	3.00	Pass
HE80	MCS0	2	155	5775	Full	18.40	18.50	21.46	30.00	30.00	3.00	3.00	Pass
HE80	MCS0	2	155	5775	484/65	15.70	15.90	18.81	30.00	30.00	3.00	3.00	Pass
HE80	MCS0	2	155	5775	484/66	15.50	15.30	18.41	30.00	30.00	3.00	3.00	Pass



<TXBF Mode>

Band IV MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	17.70	18.10	20.91	30.00		5.91		Pass
HE20	MCS0	2	157	5785	Full	18.10	17.60	20.87	30.00		5.91		Pass
HE20	MCS0	2	165	5825	Full	18.10	18.30	21.21	30.00		5.91		Pass
HE40	MCS0	2	151	5755	Full	17.80	18.20	21.01	30.00		5.91		Pass
HE40	MCS0	2	159	5795	Full	18.10	18.10	21.11	30.00		5.91		Pass
HE80	MCS0	2	155	5775	Full	16.10	16.00	19.06	30.00		5.91		Pass



### 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.

##### <CDD Modes>

##### # 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.

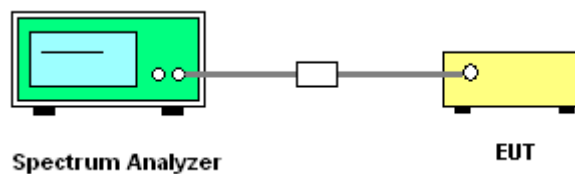
**<TXBF Modes>****# Method SA-3 #**

(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  $10 \log(N_{ANT})$  dB.

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

**3.3.4 Test Setup**



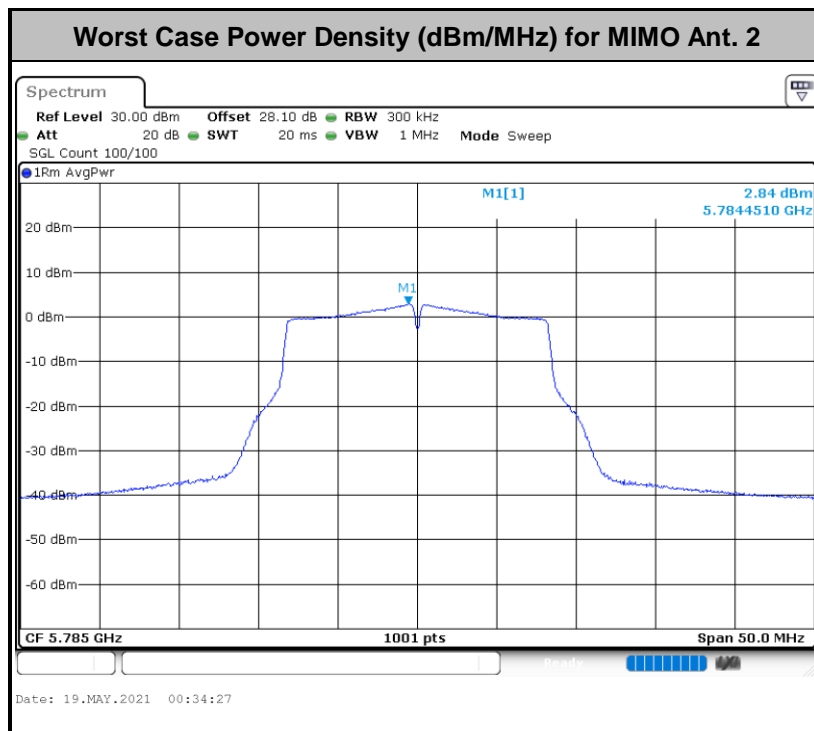
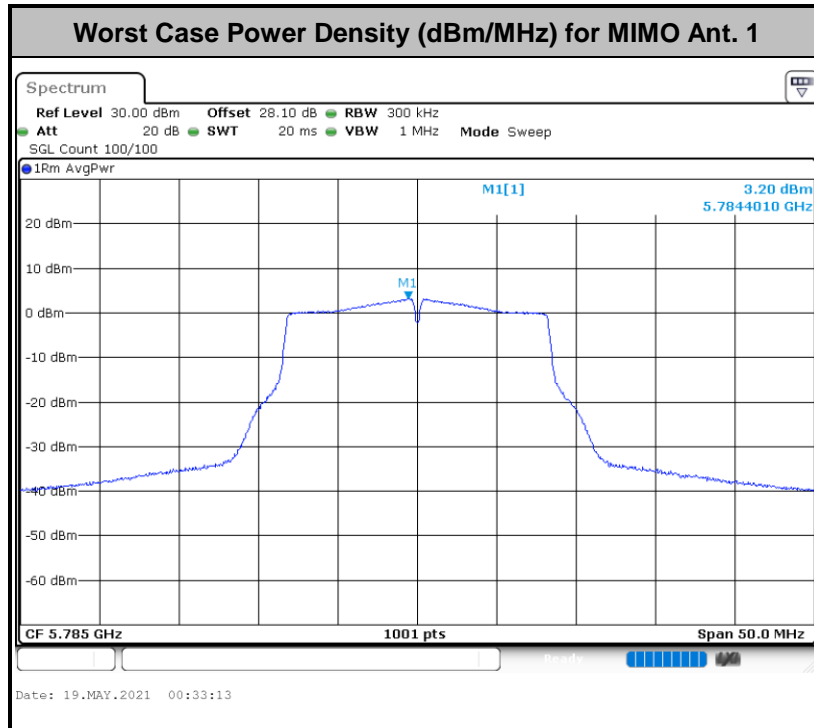
3.3.5 Test Result of Power Spectral Density

Test Engineer :	Derek Hsu	Temperature :	23.1~24.7°C
		Relative Humidity :	55.0~58.8%

<CDD Mode>

Band IV MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	0.03	0.03	2.22	5.07	5.42	8.43	30.00	5.91	Pass			
11a	6Mbps	2	157	5785	0.03	0.03	2.22	5.45	5.09	8.46	30.00	5.91	Pass			
11a	6Mbps	2	165	5825	0.03	0.03	2.22	5.27	5.07	8.28	30.00	5.91	Pass			

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



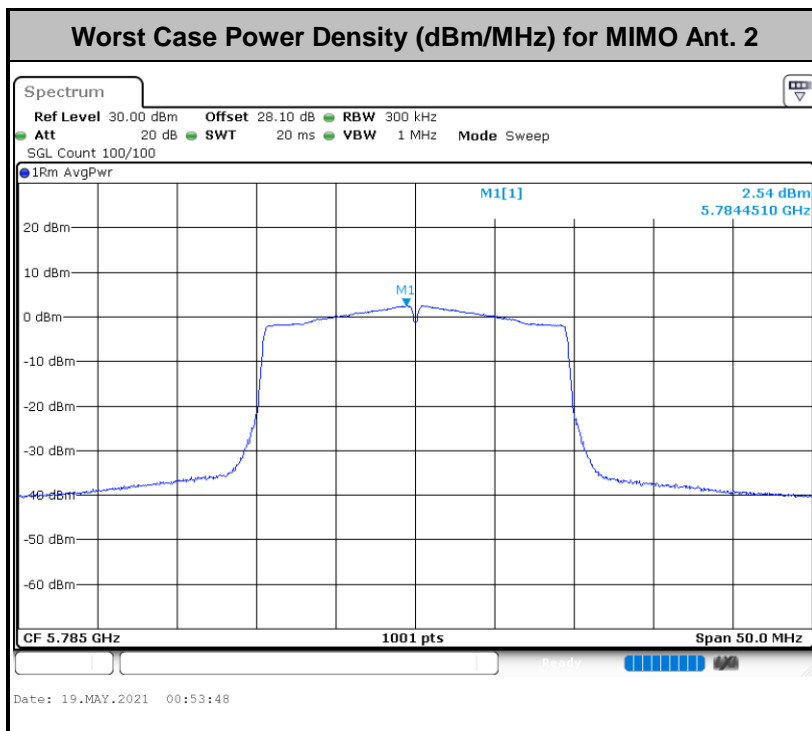
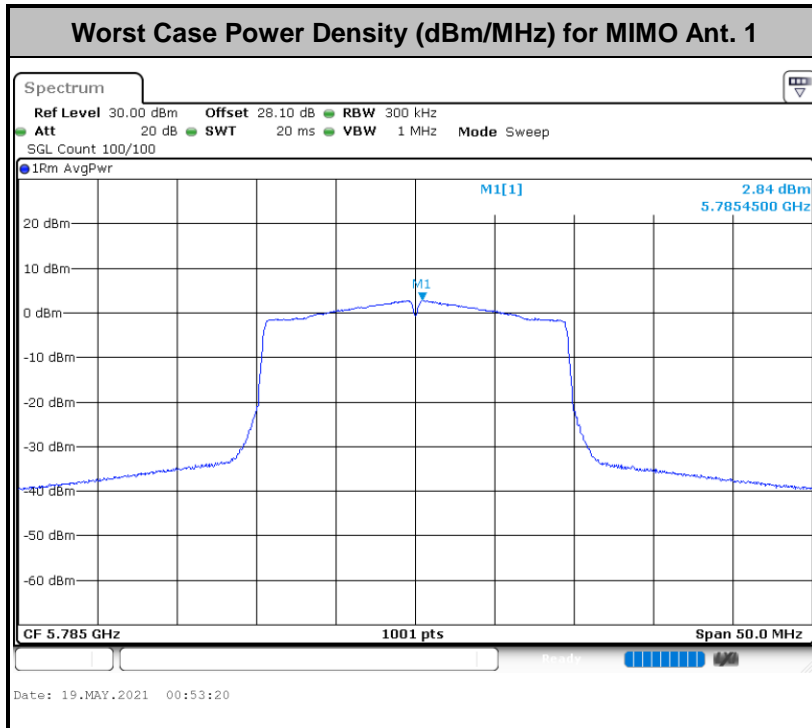




<802.11ax Mode>

Band IV MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density with Duty Factor (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	0.04	0.04	2.22	4.76	5.08	8.09	30.00	5.91	Pass			
HE20	MCS0	2	149	5745	26/0	0.10	0.10	2.22	4.70	4.31	7.71	30.00	5.91	Pass			
HE20	MCS0	2	149	5745	52/37	0.04	0.04	2.22	4.55	4.67	7.68	30.00	5.91	Pass			
HE20	MCS0	2	149	5745	106/53	0.03	0.02	2.22	4.42	4.80	7.81	30.00	5.91	Pass			
HE20	MCS0	2	157	5785	Full	0.04	0.04	2.22	5.10	4.80	8.11	30.00	5.91	Pass			
HE20	MCS0	2	157	5785	26/4	0.10	0.10	2.22	5.06	4.24	8.07	30.00	5.91	Pass			
HE20	MCS0	2	157	5785	52/38	0.04	0.04	2.22	5.07	4.21	8.08	30.00	5.91	Pass			
HE20	MCS0	2	157	5785	106/53	0.03	0.02	2.22	4.84	4.30	7.85	30.00	5.91	Pass			
HE20	MCS0	2	165	5825	Full	0.04	0.04	2.22	4.77	4.62	7.78	30.00	5.91	Pass			
HE20	MCS0	2	165	5825	26/8	0.10	0.10	2.22	4.66	3.99	7.67	30.00	5.91	Pass			
HE20	MCS0	2	165	5825	52/40	0.04	0.04	2.22	4.51	4.11	7.52	30.00	5.91	Pass			
HE20	MCS0	2	165	5825	106/54	0.03	0.02	2.22	4.41	4.05	7.42	30.00	5.91	Pass			
HE40	MCS0	2	151	5755	Full	0.06	0.06	2.22	-0.11	0.17	3.18	30.00	5.91	Pass			
HE40	MCS0	2	151	5755	242/61	0.04	0.05	2.22	-0.27	-0.36	2.74	30.00	5.91	Pass			
HE40	MCS0	2	159	5795	Full	0.06	0.06	2.22	0.21	0.24	3.25	30.00	5.91	Pass			
HE40	MCS0	2	159	5795	242/62	0.04	0.05	2.22	0.13	-0.29	3.14	30.00	5.91	Pass			
HE80	MCS0	2	155	5775	Full	0.07	0.07	2.22	-2.84	-2.25	0.76	30.00	5.91	Pass			
HE80	MCS0	2	155	5775	484/65	0.04	0.03	2.22	-2.41	-2.34	0.67	30.00	5.91	Pass			

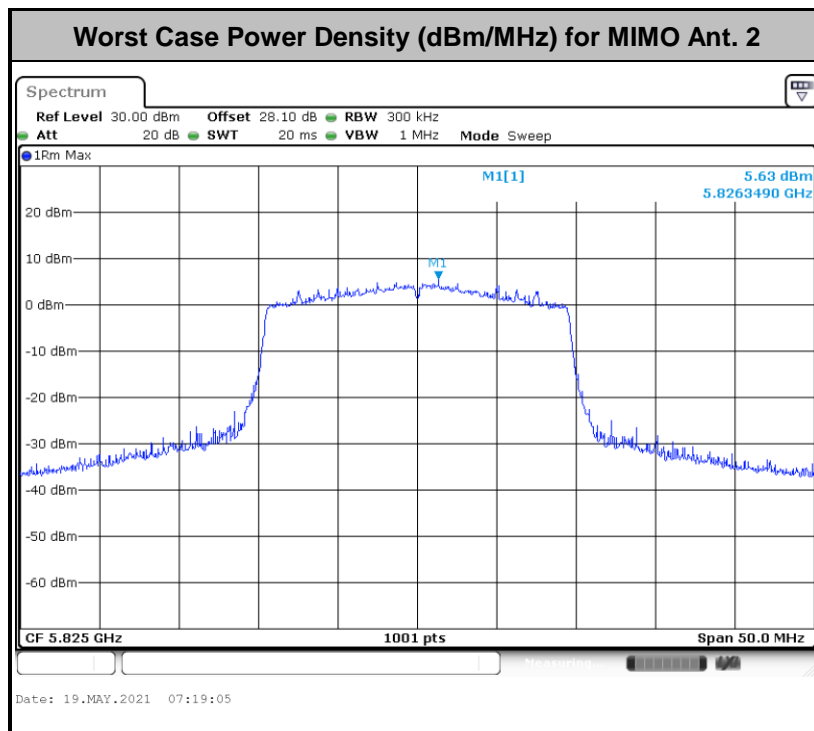
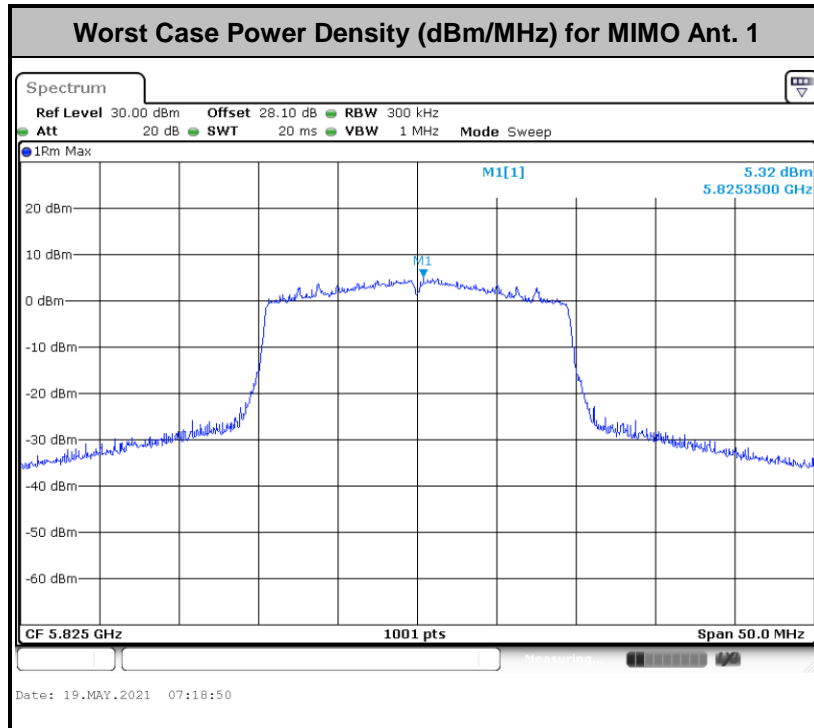
Note: PSD Sum = Max PSD(Ant. 1, Ant. 2) + 10 log (n)





<TXBF Mode>

Band IV MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	2.22		6.55	6.62	9.63	30.00		5.91	Pass	
HE20	MCS0	2	157	5785	Full	2.22		6.74	6.84	9.85	30.00		5.91	Pass	
HE20	MCS0	2	165	5825	Full	2.22		7.54	7.85	10.86	30.00		5.91	Pass	
HE40	MCS0	2	151	5755	Full	2.22		3.29	4.19	7.20	30.00		5.91	Pass	
HE40	MCS0	2	159	5795	Full	2.22		3.87	3.28	6.88	30.00		5.91	Pass	
HE80	MCS0	2	155	5775	Full	2.22		-2.02	-1.81	1.20	30.00		5.91	Pass	





### 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.

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

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.

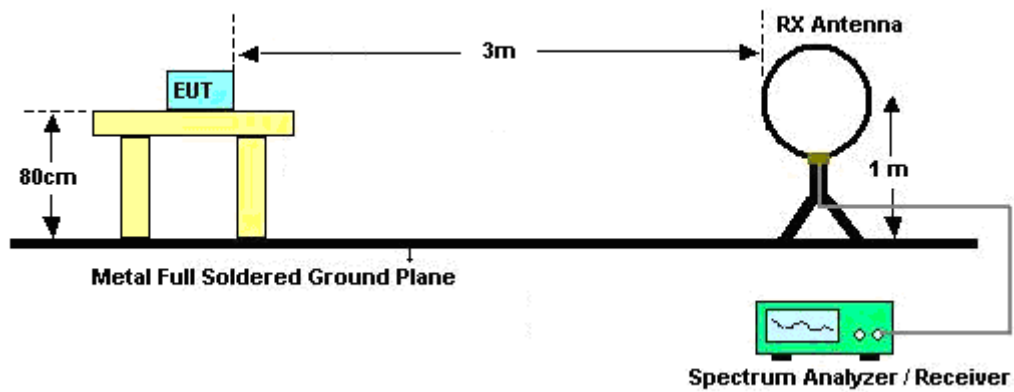
### 3.4.3 Test Procedures

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 1000 MHz
    - RBW = 120 kHz
    - VBW = 300 kHz
    - Detector = Peak
    - Trace mode = max hold
  - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
    - RBW = 1 MHz
    - VBW  $\geq$  3 MHz
    - Detector = Peak
    - Sweep time = auto
    - Trace mode = max hold
  - (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz
    - RBW = 1 MHz
    - VBW = 10 Hz, when duty cycle is no less than 98 percent.
    - VBW  $\geq$  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 set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1 GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.

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

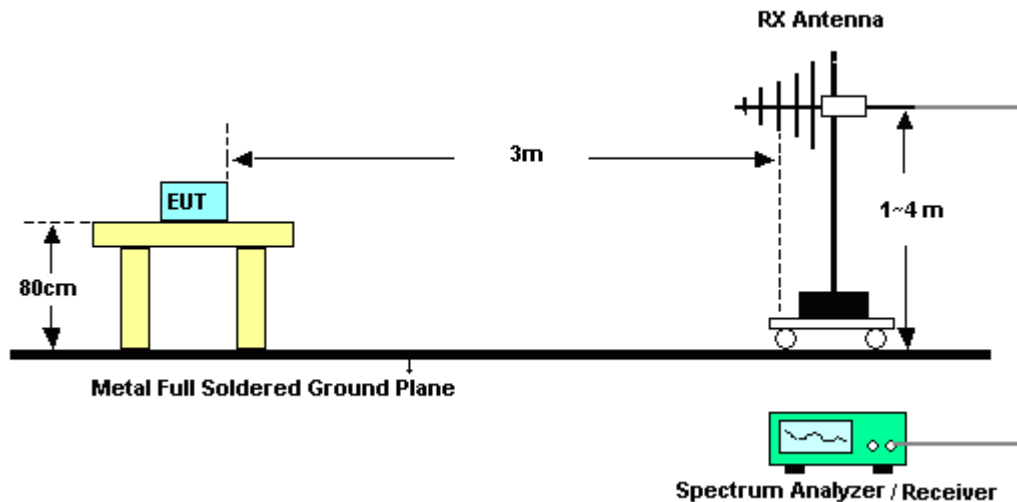
### 3.4.4 Test Setup

For radiated emissions below 30MHz

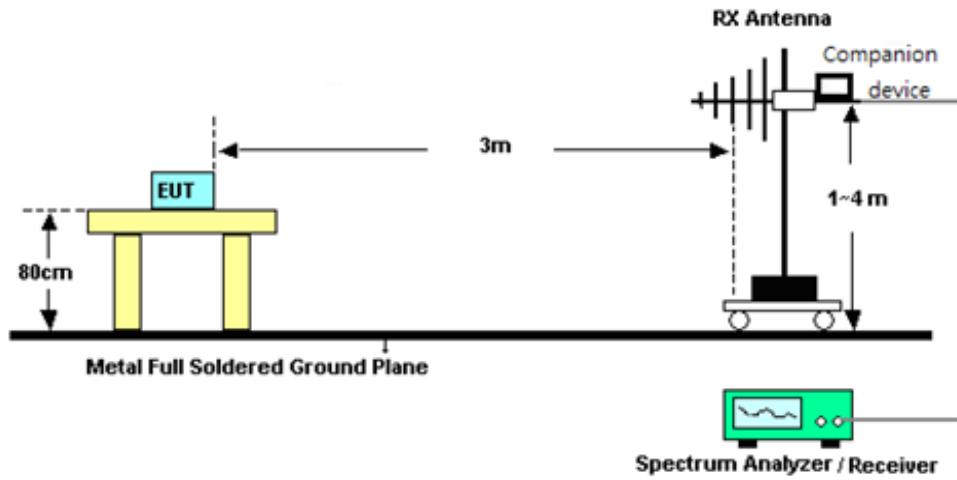


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

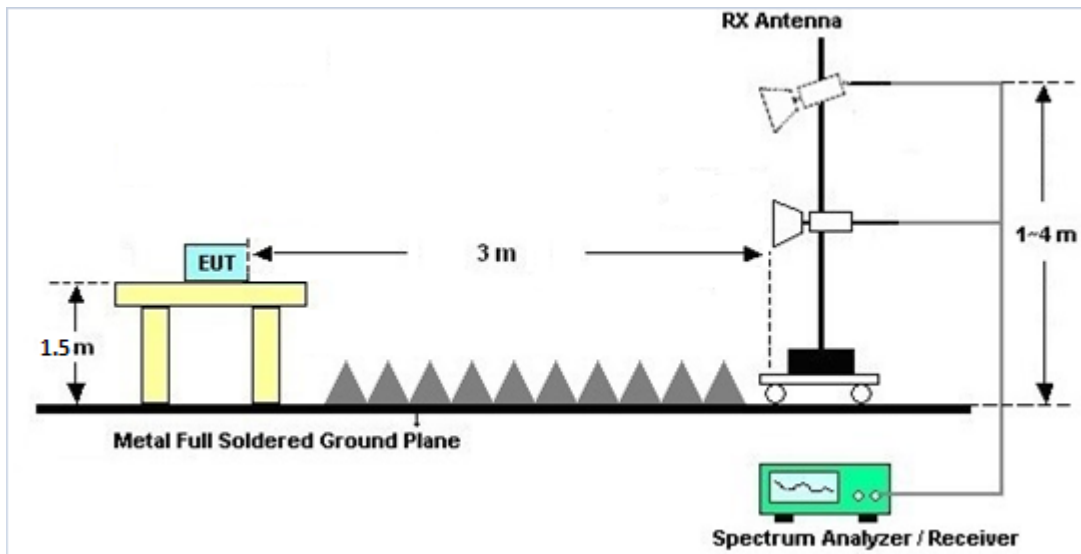


<TXBF Mode>



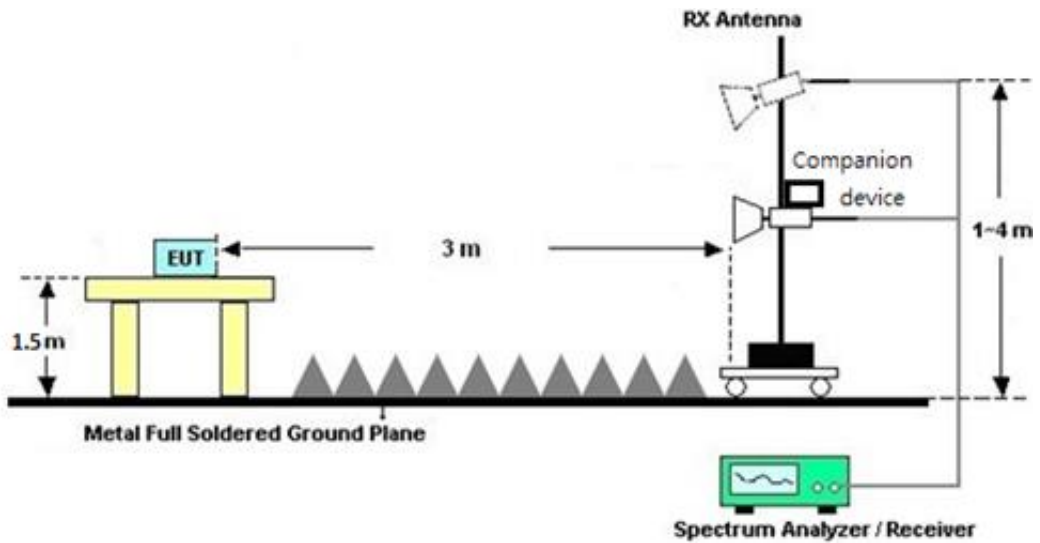
For radiated test from 1GHz to 18GHz

<CDD Mode>





&lt;TXBF Mode&gt;



### 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 B and C.

### 3.4.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.



### 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.

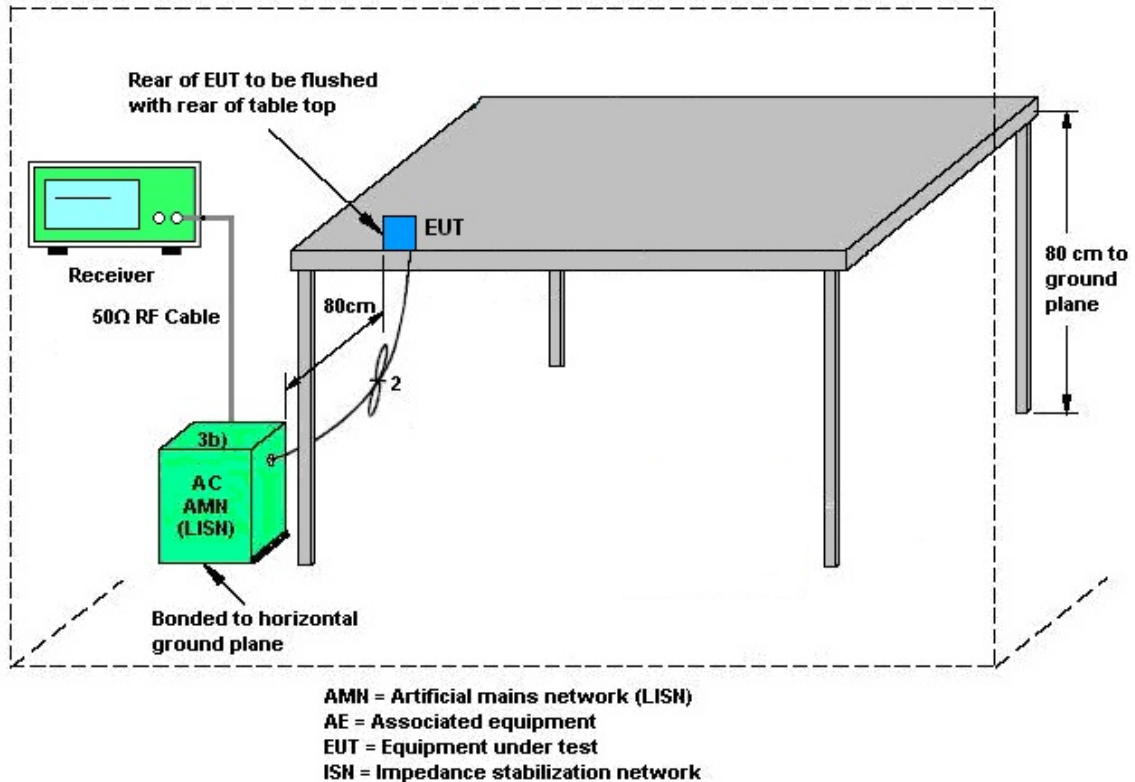
#### 3.5.2 Measuring Instruments

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 A.



## **3.6 Automatically Discontinue Transmission**

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

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

### **3.6.2 Measuring Instruments**

See list of measuring equipment of this test report.

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

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



### 3.7 Antenna Requirements

#### 3.7.1 Standard Applicable

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

#### 3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

#### 3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

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

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

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

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

The directional gain "DG" is calculated as following table.

<CDD Modes>						
			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 1 (dBi)	Ant. 2 (dBi)				
Band IV	3.00	2.80	3.00	5.91	0.00	0.00

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

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

**TXBF modes**

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

where

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

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

$N_{ANT}$  = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$  if the  $k$ 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.

The EUT supports beamforming for 802.11ac modes.

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

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

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

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant 1	Ant 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
<b>Band IV</b>	3.00	2.80	5.91	5.91	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	Jan. 04, 2021	Apr. 05, 2021~ May 04, 2021	Jan. 03, 2022	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D & N-6-06	35414 & AT-N0602	30MHz~1GHz	Oct. 11, 2020	Apr. 05, 2021~ May 04, 2021	Oct. 10, 2021	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-132 6	1GHz ~ 18GHz	Nov. 03, 2020	Apr. 05, 2021~ May 04, 2021	Nov. 02, 2021	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00994	18GHz~40GHz	Nov. 19, 2020	Apr. 05, 2021~ May 04, 2021	Nov. 18, 2021	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 02, 2020	Apr. 05, 2021~ May 04, 2021	Dec. 01, 2021	Radiation (03CH11-HY)
Preamplifier	EMEC	EM1G18G	060812	1GHz~18GHz	Oct. 27, 2020	Apr. 05, 2021~ May 04, 2021	Oct. 26, 2021	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY532700 80	1GHz~26.5GHz	Nov. 12, 2020	Apr. 05, 2021~ May 04, 2021	Nov. 11, 2021	Radiation (03CH11-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 15, 2020	Apr. 05, 2021~ May 04, 2021	Jun. 14, 2021	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 86	10Hz~44GHz	Oct. 23, 2020	Apr. 05, 2021~ May 04, 2021	Oct. 22, 2021	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE )	MY554201 70	20MHz~8.4GHz	May 21, 2020	Apr. 05, 2021~ May 04, 2021	May 20, 2021	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1~4m	N/A	Apr. 05, 2021~ May 04, 2021	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Apr. 05, 2021~ May 04, 2021	N/A	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-00105 3	N/A	N/A	Apr. 05, 2021~ May 04, 2021	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz-30MHz	Mar. 11, 2021	Apr. 05, 2021~ May 04, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 11, 2021	Apr. 05, 2021~ May 04, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	30M-18G	Mar. 11, 2021	Apr. 05, 2021~ May 04, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 11, 2021	Apr. 05, 2021~ May 04, 2021	Mar. 10, 2022	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1 530-8000-40S S	SN11	1.53G Low Pass	Sep. 14, 2020	Apr. 05, 2021~ May 04, 2021	Sep. 13, 2021	Radiation (03CH11-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000 -40SS	SN3	6.75GHz High Pass Filter	Sep. 15, 2020	Apr. 05, 2021~ May 04, 2021	Sep. 14, 2021	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP140325	N/A	Nov. 18, 2020	Apr. 05, 2021~ May 04, 2021	Nov. 17, 2021	Radiation (03CH11-HY)
Hygrometer	TECPEL	DTM-303B	TP200880	QA-3-031	Oct. 22, 2020	Apr. 05, 2021~ May 04, 2021	Oct. 21, 2021	Radiation (03CH11-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Mar. 26, 2021	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 30, 2020	Mar. 26, 2021	Nov. 29, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 18, 2020	Mar. 26, 2021	Nov. 17, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	Mar. 26, 2021	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 26, 2021	N/A	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Feb. 25, 2021	Mar. 26, 2021	Feb. 24, 2022	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 31, 2020	Mar. 26, 2021	Dec. 30, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 03, 2021	Mar. 29, 2021~ May 19, 2021	Mar. 02, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 16, 2020	Mar. 29, 2021~ May 19, 2021	Dec. 15, 2021	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	Mar. 29, 2021~ May 19, 2021	Jul. 21, 2021	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2021	Mar. 29, 2021~ May 19, 2021	Mar. 16, 2022	Conducted (TH05-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% ( $U = 2Uc(y)$ )	4.4
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.2
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.1
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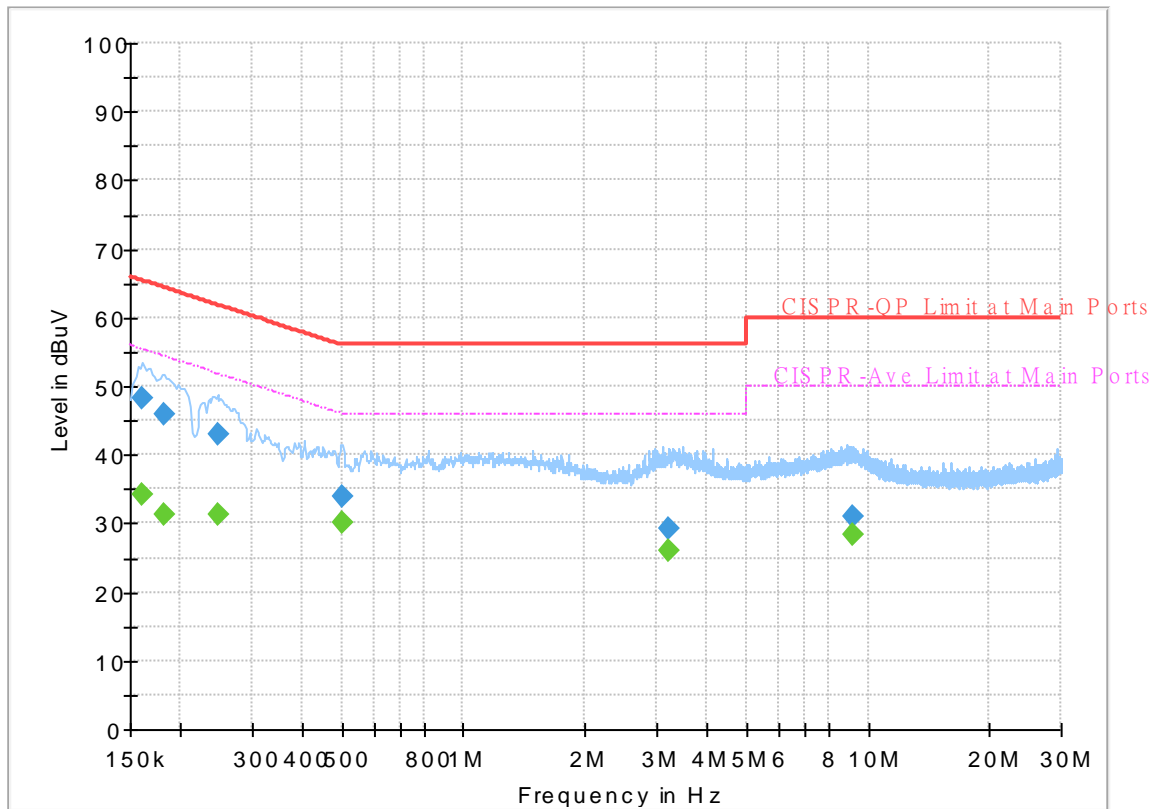
## Appendix A. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	Temperature :	23~26°C
		Relative Humidity :	40~50%

## EUT Information

Report NO : 122002  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



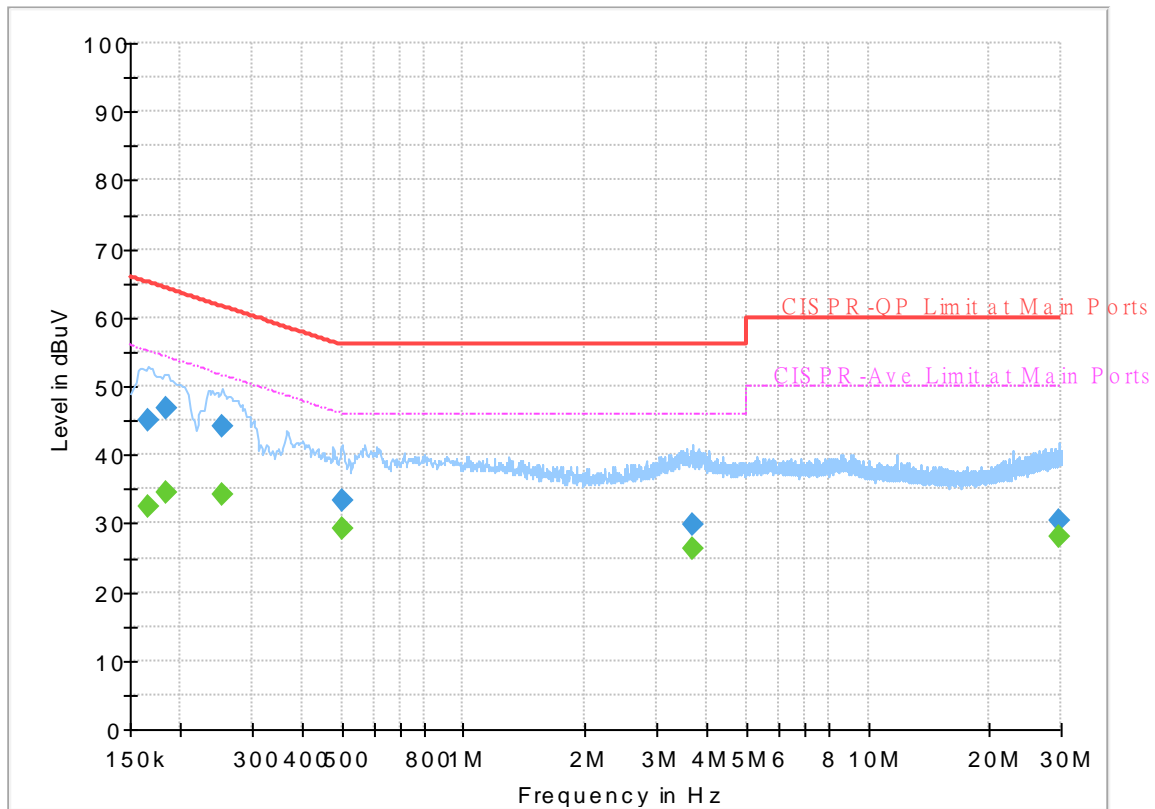
## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	34.25	55.40	21.15	L1	OFF	19.7
0.161250	48.14	---	65.40	17.26	L1	OFF	19.7
0.181500	---	31.43	54.42	22.99	L1	OFF	19.7
0.181500	45.88	---	64.42	18.54	L1	OFF	19.7
0.246750	---	31.23	51.87	20.64	L1	OFF	19.7
0.246750	42.87	---	61.87	19.00	L1	OFF	19.7
0.503250	---	30.09	46.00	15.91	L1	OFF	19.9
0.503250	33.78	---	56.00	22.22	L1	OFF	19.9
3.232500	---	25.93	46.00	20.07	L1	OFF	20.1
3.232500	29.22	---	56.00	26.78	L1	OFF	20.1
9.147750	---	28.29	50.00	21.71	L1	OFF	20.2
9.147750	31.00	---	60.00	29.00	L1	OFF	20.2

# EUT Information

Report NO : 122002  
 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)
0.165750	---	32.38	55.17	22.79	N	OFF	19.7
0.165750	44.96	---	65.17	20.21	N	OFF	19.7
0.183750	---	34.63	54.31	19.68	N	OFF	19.7
0.183750	46.67	---	64.31	17.64	N	OFF	19.7
0.253500	---	34.35	51.64	17.29	N	OFF	19.8
0.253500	44.02	---	61.64	17.62	N	OFF	19.8
0.501000	---	29.30	46.00	16.70	N	OFF	19.9
0.501000	33.30	---	56.00	22.70	N	OFF	19.9
3.698250	---	26.23	46.00	19.77	N	OFF	20.1
3.698250	29.97	---	56.00	26.03	N	OFF	20.1
29.805000	---	28.07	50.00	21.93	N	OFF	21.0
29.805000	30.41	---	60.00	29.59	N	OFF	21.0



## Appendix B. Radiated Spurious Emission

Test Engineer :	Bill Chang, Fu Chen and Troye Hsieh	Temperature :	18.2~24.2°C
		Relative Humidity :	43.2~70.1%

<CDD Mode>

**Band 4 - 5725~5850MHz**  
**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		5650	57.99	-10.21	68.2	48.4	31.8	10.74	32.95	100	63	P	H	
		5698.6	61.32	-42.85	104.17	51.67	31.8	10.79	32.94	100	63	P	H	
		5718.4	74.23	-36.12	110.35	64.48	31.87	10.82	32.94	100	63	P	H	
		5724	78.78	-41.14	119.92	69	31.9	10.82	32.94	100	63	P	H	
	*	5745	116.79	-	-	106.9	31.98	10.85	32.94	100	63	P	H	
	*	5745	109.94	-	-	100.05	31.98	10.85	32.94	100	63	A	H	
														H
														H
			5644.2	57.64	-10.56	68.2	48.07	31.79	10.73	32.95	100	81	P	V
			5695.2	60.74	-40.92	101.66	51.09	31.8	10.79	32.94	100	81	P	V
			5720	72.34	-38.46	110.8	62.58	31.88	10.82	32.94	100	81	P	V
			5724.8	77.23	-44.51	121.74	67.45	31.9	10.82	32.94	100	81	P	V
	*		5745	115.67	-	-	105.78	31.98	10.85	32.94	100	81	P	V
	*		5745	108.96	-	-	99.07	31.98	10.85	32.94	100	81	A	V
														V
													V	



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11a CH 157 5785MHz		5642.75	54.67	-13.53	68.2	45.1	31.79	10.73	32.95	100	69	P	H	
		5700	55.6	-49.6	105.2	45.94	31.8	10.8	32.94	100	69	P	H	
		5719.5	57.12	-53.54	110.66	47.36	31.88	10.82	32.94	100	69	P	H	
		5724.5	57.36	-63.7	121.06	47.58	31.9	10.82	32.94	100	69	P	H	
	*	5785	117.16	-	-	107.13	32.07	10.89	32.93	100	69	P	H	
	*	5785	110.3	-	-	100.27	32.07	10.89	32.93	100	69	A	H	
		5854.75	55.67	-55.7	111.37	45.32	32.31	10.96	32.92	100	69	P	H	
		5855.25	55.56	-55.17	110.73	45.21	32.31	10.96	32.92	100	69	P	H	
		5881.25	54.64	-45.92	100.56	44.21	32.36	10.98	32.91	100	69	P	H	
		5927	53.55	-14.65	68.2	43.03	32.4	11.02	32.9	100	69	P	H	
														H
														H
			5643.25	53.45	-14.75	68.2	43.88	31.79	10.73	32.95	100	97	P	V
			5697.75	54.73	-48.81	103.54	45.08	31.8	10.79	32.94	100	97	P	V
			5713.5	55.7	-53.28	108.98	45.98	31.85	10.81	32.94	100	97	P	V
			5724.25	56.73	-63.76	120.49	46.95	31.9	10.82	32.94	100	97	P	V
	*		5785	115.72	-	-	105.69	32.07	10.89	32.93	100	97	P	V
	*		5785	109.06	-	-	99.03	32.07	10.89	32.93	100	97	A	V
			5851	55.58	-64.34	119.92	45.24	32.3	10.96	32.92	100	97	P	V
			5864.75	54.56	-53.51	108.07	44.17	32.33	10.97	32.91	100	97	P	V
		5893.75	54.28	-37.01	91.29	43.81	32.39	10.99	32.91	100	97	P	V	
		5930.5	52.24	-15.96	68.2	41.71	32.4	11.03	32.9	100	97	P	V	
													V	
													V	



WiFi Ant. 1+2	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11a CH 165 5825MHz	*	5825	117.4	-	-	107.19	32.2	10.93	32.92	100	64	P	H	
	*	5825	110.56	-	-	100.35	32.2	10.93	32.92	100	64	A	H	
		5850.4	71.28	-50.01	121.29	60.94	32.3	10.96	32.92	100	64	P	H	
		5859	73.79	-35.89	109.68	63.43	32.32	10.96	32.92	100	64	P	H	
		5875	59.54	-45.66	105.2	49.12	32.35	10.98	32.91	100	64	P	H	
		5942.2	55.07	-13.13	68.2	44.53	32.4	11.04	32.9	100	64	P	H	
														H
														H
	*	5825	116.6	-	-	106.39	32.2	10.93	32.92	107	96	P	V	
	*	5825	109.59	-	-	99.38	32.2	10.93	32.92	107	96	A	V	
		5850.4	72.89	-48.4	121.29	62.55	32.3	10.96	32.92	107	96	P	V	
		5855.2	68.55	-42.19	110.74	58.2	32.31	10.96	32.92	107	96	P	V	
		5875.6	57.64	-47.11	104.75	47.22	32.35	10.98	32.91	107	96	P	V	
		5933.8	53.31	-14.89	68.2	42.78	32.4	11.03	32.9	107	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 5725~5850MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11a CH 149 5745MHz		11490	49.12	-24.88	74	57.8	39.79	17.75	66.22	100	0	P	H	
		17235	56.77	-11.43	68.2	60.11	40.07	22.75	66.16	100	0	P	H	
													H	
													H	
			11490	52.99	-21.01	74	61.67	39.79	17.75	66.22	326	0	P	V
			11490	41.84	-12.16	54	50.52	39.79	17.75	66.22	326	0	A	V
			17235	56.25	-11.95	68.2	59.59	40.07	22.75	66.16	100	0	P	V
														V
802.11a CH 157 5785MHz		11570	50.98	-23.02	74	59.78	39.59	17.83	66.22	267	353	P	H	
		11570	41.29	-12.71	54	50.09	39.59	17.83	66.22	267	353	A	H	
		17355	46.61	-21.59	68.2	49.13	40.64	22.87	66.03	100	0	P	H	
													H	
			11570	51.47	-22.53	74	60.27	39.59	17.83	66.22	256	0	P	V
			11570	41.42	-12.58	54	50.22	39.59	17.83	66.22	256	0	A	V
			17355	47.75	-20.45	68.2	50.27	40.64	22.87	66.03	100	0	P	V
														V
802.11a CH 165 5825MHz		11650	49.75	-24.25	74	58.82	39.25	17.9	66.22	100	0	P	H	
		17475	50.19	-18.01	68.2	51.73	41.38	22.98	65.9	100	0	P	H	
													H	
													H	
			11650	49.4	-24.6	74	58.47	39.25	17.9	66.22	100	0	P	V
			17475	51.57	-16.63	68.2	53.11	41.38	22.98	65.9	100	0	P	V
														V
														V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													





Band 4 5725~5850MHz

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

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Full CH 149 5745MHz		5648.4	59.76	-8.44	68.2	50.17	31.8	10.74	32.95	100	64	P	H	
		5693.2	61.39	-38.8	100.19	51.75	31.8	10.79	32.95	100	64	P	H	
		5718.6	74.59	-35.82	110.41	64.84	31.87	10.82	32.94	100	64	P	H	
		5724.8	79.9	-41.84	121.74	70.12	31.9	10.82	32.94	100	64	P	H	
	*	5745	117.1	-	-	107.21	31.98	10.85	32.94	100	64	P	H	
	*	5745	107.99	-	-	98.1	31.98	10.85	32.94	100	64	A	H	
														H
														H
			5647.2	56.87	-11.33	68.2	47.3	31.79	10.73	32.95	302	89	P	V
			5699.6	59.24	-45.67	104.91	49.59	31.8	10.79	32.94	302	89	P	V
			5720	73.28	-37.52	110.8	63.52	31.88	10.82	32.94	302	89	P	V
			5725	79.38	-42.82	122.2	69.6	31.9	10.82	32.94	302	89	P	V
	*		5745	117.03	-	-	107.14	31.98	10.85	32.94	302	89	P	V
	*		5745	107.17	-	-	97.28	31.98	10.85	32.94	302	89	A	V
														V
													V	



WiFi Ant. 1+2	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Full CH 157 5785MHz		5631.25	55.75	-12.45	68.2	46.23	31.76	10.72	32.96	100	65	P	H	
		5696.75	57.05	-45.75	102.8	47.4	31.8	10.79	32.94	100	65	P	H	
		5713	58.11	-50.73	108.84	48.39	31.85	10.81	32.94	100	65	P	H	
		5720.75	57.58	-54.93	112.51	47.82	31.88	10.82	32.94	100	65	P	H	
	*	5785	115.56	-	-	105.53	32.07	10.89	32.93	100	65	P	H	
	*	5785	106.37	-	-	96.34	32.07	10.89	32.93	100	65	A	H	
		5850.25	57.05	-64.58	121.63	46.71	32.3	10.96	32.92	100	65	P	H	
		5862.25	58.64	-50.13	108.77	48.26	32.32	10.97	32.91	100	65	P	H	
		5884.25	55.34	-42.99	98.33	44.89	32.37	10.99	32.91	100	65	P	H	
		5933.25	54.83	-13.37	68.2	44.3	32.4	11.03	32.9	100	65	P	H	
														H
														H
			5642	54.34	-13.86	68.2	44.78	31.78	10.73	32.95	100	92	P	V
			5678.75	55.91	-33.6	89.51	46.29	31.8	10.77	32.95	100	92	P	V
			5720	56.63	-54.17	110.8	46.87	31.88	10.82	32.94	100	92	P	V
			5722.75	57.57	-59.5	117.07	47.8	31.89	10.82	32.94	100	92	P	V
	*		5785	114.8	-	-	104.77	32.07	10.89	32.93	100	92	P	V
	*		5785	105.66	-	-	95.63	32.07	10.89	32.93	100	92	A	V
			5852.75	55.48	-60.45	115.93	45.13	32.31	10.96	32.92	100	92	P	V
			5866.25	55.15	-52.5	107.65	44.76	32.33	10.97	32.91	100	92	P	V
		5885.75	54.72	-42.5	97.22	44.27	32.37	10.99	32.91	100	92	P	V	
		5927.75	53.64	-14.56	68.2	43.12	32.4	11.02	32.9	100	92	P	V	
													V	
													V	



WiFi Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Full CH 165 5825MHz	*	5825	117.61	-	-	107.4	32.2	10.93	32.92	100	67	P	H	
	*	5825	107.38	-	-	97.17	32.2	10.93	32.92	100	67	A	H	
		5850.4	72.41	-48.88	121.29	62.07	32.3	10.96	32.92	100	67	P	H	
		5855	66.68	-44.12	110.8	56.33	32.31	10.96	32.92	100	67	P	H	
		5877.8	58.36	-44.76	103.12	47.93	32.36	10.98	32.91	100	67	P	H	
		5933.2	54.79	-13.41	68.2	44.26	32.4	11.03	32.9	100	67	P	H	
														H
														H
	*	5825	115.63	-	-	105.42	32.2	10.93	32.92	308	92	P	V	
	*	5825	105.81	-	-	95.6	32.2	10.93	32.92	308	92	A	V	
		5850.2	69.98	-51.76	121.74	59.64	32.3	10.96	32.92	308	92	P	V	
		5856	67.45	-43.07	110.52	57.1	32.31	10.96	32.92	308	92	P	V	
		5880.8	56.65	-44.24	100.89	46.22	32.36	10.98	32.91	308	92	P	V	
		5943.6	53.57	-14.63	68.2	43.03	32.4	11.04	32.9	308	92	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 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Full CH 149 5745MHz		11490	48.85	-25.15	74	57.53	39.79	17.75	66.22	100	0	P	H	
		17235	48.82	-19.38	68.2	52.16	40.07	22.75	66.16	100	0	P	H	
													H	
													H	
			11490	48.89	-25.11	74	57.57	39.79	17.75	66.22	100	0	P	V
			17235	49.07	-19.13	68.2	52.41	40.07	22.75	66.16	100	0	P	V
														V
802.11ax HE20 Full CH 157 5785MHz		11570	48.81	-25.19	74	57.61	39.59	17.83	66.22	100	0	P	H	
		17355	46.42	-21.78	68.2	48.94	40.64	22.87	66.03	100	0	P	H	
													H	
													H	
			11570	49.27	-24.73	74	58.07	39.59	17.83	66.22	100	0	P	V
			17355	47.23	-20.97	68.2	49.75	40.64	22.87	66.03	100	0	P	V
														V
802.11ax HE20 Full CH 165 5825MHz		11650	48.47	-25.53	74	57.54	39.25	17.9	66.22	100	0	P	H	
		17475	52.66	-15.54	68.2	54.2	41.38	22.98	65.9	100	0	P	H	
													H	
													H	
			11650	48.57	-25.43	74	57.64	39.25	17.9	66.22	100	0	P	V
			17475	52.84	-15.36	68.2	54.38	41.38	22.98	65.9	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE20\_Partial 106 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Partial 106/53 CH 149 5745MHz		5648.8	58.5	-9.7	68.2	48.91	31.8	10.74	32.95	100	65	P	H	
		5683.2	61.68	-31.12	92.8	52.05	31.8	10.78	32.95	100	65	P	H	
		5718	71.51	-38.73	110.24	61.76	31.87	10.82	32.94	100	65	P	H	
		5724.6	77.47	-43.82	121.29	67.69	31.9	10.82	32.94	100	65	P	H	
	*	5745	120.33	-	-	110.44	31.98	10.85	32.94	100	65	P	H	
	*	5745	110.15	-	-	100.26	31.98	10.85	32.94	100	65	A	H	
														H
														H
			5650	56.95	-11.25	68.2	47.36	31.8	10.74	32.95	100	351	P	V
			5675.4	58.48	-28.56	87.04	48.86	31.8	10.77	32.95	100	351	P	V
			5718.6	68.05	-42.36	110.41	58.3	31.87	10.82	32.94	100	351	P	V
			5724.2	75.98	-44.4	120.38	66.2	31.9	10.82	32.94	100	351	P	V
		*	5745	118.66	-	-	108.77	31.98	10.85	32.94	100	351	P	V
		*	5745	108.83	-	-	98.94	31.98	10.85	32.94	100	351	A	V
														V
													V	



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Partial 106/54 CH 165 5825MHz	*	5825	119.27	-	-	109.06	32.2	10.93	32.92	100	66	P	H	
	*	5825	110.41	-	-	100.2	32.2	10.93	32.92	100	66	A	H	
		5854.2	68.49	-44.13	112.62	58.14	32.31	10.96	32.92	100	66	P	H	
		5855.4	65.63	-45.06	110.69	55.28	32.31	10.96	32.92	100	66	P	H	
		5879.8	59.5	-42.13	101.63	49.07	32.36	10.98	32.91	100	66	P	H	
		5931.4	56.95	-11.25	68.2	46.42	32.4	11.03	32.9	100	66	P	H	
														H
														H
	*	5825	118.11	-	-	107.9	32.2	10.93	32.92	295	91	P	V	
	*	5825	108.98	-	-	98.77	32.2	10.93	32.92	295	91	A	V	
		5855	66.94	-43.86	110.8	56.59	32.31	10.96	32.92	295	91	P	V	
		5855.6	68.8	-41.83	110.63	58.45	32.31	10.96	32.92	295	91	P	V	
		5883.6	58.28	-40.53	98.81	47.83	32.37	10.99	32.91	295	91	P	V	
		5932	54.42	-13.78	68.2	43.89	32.4	11.03	32.9	295	91	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 5725~5850MHz**

**WIFI 802.11ax HE20\_Partial 106 (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Partial 106/53 CH 149 5745MHz		11490	53.71	-20.29	74	62.39	39.79	17.75	66.22	254	350	P	H	
		11490	43.43	-10.57	54	52.11	39.79	17.75	66.22	254	350	A	H	
		17235	51.16	-17.04	68.2	54.5	40.07	22.75	66.16	100	0	P	H	
													H	
			11490	52.4	-21.6	74	61.08	39.79	18.1	66.22	318	0	P	V
			11490	42.15	-11.85	54	50.83	39.79	18.1	66.22	318	0	A	V
			17235	53.16	-15.04	68.2	56.5	40.07	23.04	66.16	100	0	P	V
													V	
802.11ax HE20 Partial 106/54 CH 165 5825MHz		11650	49.34	-24.66	74	58.41	39.25	17.9	66.22	100	0	P	H	
		17475	52.2	-16	68.2	53.74	41.38	22.98	65.9	100	0	P	H	
													H	
													H	
			11650	49.19	-24.81	74	58.26	39.25	17.9	66.22	100	0	P	V
			17475	52.35	-15.85	68.2	53.89	41.38	22.98	65.9	100	0	P	V
														V
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE40\_Full (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5632.75	58.91	-9.29	68.2	49.38	31.77	10.72	32.96	100	60	P	H
		5693.75	61.3	-39.29	100.59	51.66	31.8	10.79	32.95	100	60	P	H
		5719.5	66.18	-44.48	110.66	56.42	31.88	10.82	32.94	100	60	P	H
		5724.5	68.9	-52.16	121.06	59.12	31.9	10.82	32.94	100	60	P	H
	*	5755	110.44	-	-	100.5	32.01	10.86	32.93	100	60	P	H
	*	5755	100.24	-	-	90.3	32.01	10.86	32.93	100	60	A	H
		5853	56.29	-59.07	115.36	45.94	32.31	10.96	32.92	100	60	P	H
		5861.75	56.7	-52.21	108.91	46.32	32.32	10.97	32.91	100	60	P	H
		5919.75	56.61	-15.46	72.07	46.09	32.4	11.02	32.9	100	60	P	H
		5932.5	56.54	-11.66	68.2	46.01	32.4	11.03	32.9	100	60	P	H
<b>802.11ax</b>													H
<b>HE40 Full</b>													H
<b>CH 151</b>		5647.25	56.76	-11.44	68.2	47.19	31.79	10.73	32.95	300	80	P	V
<b>5755MHz</b>		5696.75	58.82	-43.98	102.8	49.17	31.8	10.79	32.94	300	80	P	V
		5714.5	63.82	-45.44	109.26	54.09	31.86	10.81	32.94	300	80	P	V
		5724.75	68.74	-52.89	121.63	58.96	31.9	10.82	32.94	300	80	P	V
	*	5755	109.41	-	-	99.47	32.01	10.86	32.93	300	80	P	V
	*	5755	99.17	-	-	89.23	32.01	10.86	32.93	300	80	A	V
		5854	55.92	-57.16	113.08	45.57	32.31	10.96	32.92	300	80	P	V
		5856.25	56.07	-54.38	110.45	45.72	32.31	10.96	32.92	300	80	P	V
		5905.25	56.51	-26.27	82.78	46.02	32.4	11	32.91	300	80	P	V
		5929.75	55.29	-12.91	68.2	44.76	32.4	11.03	32.9	300	80	P	V
													V
													V





WiFi Ant. 1+2	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5646.75	54.34	-13.86	68.2	44.77	31.79	10.73	32.95	100	64	P	H
		5699.5	54.94	-49.89	104.83	45.29	31.8	10.79	32.94	100	64	P	H
		5719.75	56.63	-54.1	110.73	46.87	31.88	10.82	32.94	100	64	P	H
		5723.5	56.32	-62.46	118.78	46.55	31.89	10.82	32.94	100	64	P	H
	*	5795	107.88	-	-	97.82	32.09	10.9	32.93	100	64	P	H
	*	5795	98.54	-	-	88.48	32.09	10.9	32.93	100	64	A	H
		5850.5	57.29	-63.77	121.06	46.95	32.3	10.96	32.92	100	64	P	H
		5857.75	56.53	-53.5	110.03	46.17	32.32	10.96	32.92	100	64	P	H
		5875.5	54.58	-50.25	104.83	44.16	32.35	10.98	32.91	100	64	P	H
		5938.25	53.48	-14.72	68.2	42.95	32.4	11.03	32.9	100	64	P	H
<b>802.11ax</b>													H
<b>HE40 Full</b>													H
<b>CH 159</b>		5641.25	53.1	-15.1	68.2	43.54	31.78	10.73	32.95	300	85	P	V
<b>5795MHz</b>		5695.25	53.41	-48.29	101.7	43.76	31.8	10.79	32.94	300	85	P	V
		5710.5	54.21	-53.93	108.14	44.5	31.84	10.81	32.94	300	85	P	V
		5721.25	54.99	-58.66	113.65	45.22	31.89	10.82	32.94	300	85	P	V
	*	5795	109.67	-	-	99.61	32.09	10.9	32.93	300	85	P	V
	*	5795	97.24	-	-	87.18	32.09	10.9	32.93	300	85	A	V
		5850	57.33	-64.87	122.2	47	32.3	10.95	32.92	300	85	P	V
		5859.5	55.71	-53.83	109.54	45.35	32.32	10.96	32.92	300	85	P	V
		5889	54.52	-40.29	94.81	44.06	32.38	10.99	32.91	300	85	P	V
		5931.5	53.41	-14.79	68.2	42.88	32.4	11.03	32.9	300	85	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 5725~5850MHz  
WIFI 802.11ax HE40\_Full (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE40 Full CH 151 5755MHz		11510	47.6	-26.4	74	56.28	39.77	17.77	66.22	100	0	P	H	
		17265	45.49	-22.71	68.2	48.71	40.13	22.78	66.13	100	0	P	H	
													H	
													H	
			11510	48.59	-25.41	74	57.27	39.77	17.77	66.22	100	0	P	V
			17265	46.22	-21.98	68.2	49.44	40.13	22.78	66.13	100	0	P	V
														V
802.11ax HE40 Full CH 159 5795MHz		11590	49.01	-24.99	74	57.85	39.53	17.85	66.22	100	0	P	H	
		17385	47.93	-20.27	68.2	50.15	40.88	22.9	66	100	0	P	H	
													H	
													H	
			11590	47.67	-26.33	74	56.51	39.53	17.85	66.22	100	0	P	V
			17385	47.38	-20.82	68.2	49.6	40.88	22.9	66	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE40\_Partial 242 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
		5609.25	58.66	-9.54	68.2	49.21	31.72	10.69	32.96	100	69	P	H	
		5651	60.46	-8.48	68.94	50.87	31.8	10.74	32.95	100	69	P	H	
		5720	62.01	-48.79	110.8	52.25	31.88	10.82	32.94	100	69	P	H	
		5723.5	65.1	-53.68	118.78	55.33	31.89	10.82	32.94	100	69	P	H	
	*	5755	112.45	-	-	102.51	32.01	10.86	32.93	100	69	P	H	
	*	5755	102.95	-	-	93.01	32.01	10.86	32.93	100	69	A	H	
		5853.5	56.11	-58.11	114.22	45.76	32.31	10.96	32.92	100	69	P	H	
		5874.25	57.08	-48.33	105.41	46.66	32.35	10.98	32.91	100	69	P	H	
		5901.75	57.38	-27.99	85.37	46.89	32.4	11	32.91	100	69	P	H	
		5944.75	57.47	-10.73	68.2	46.93	32.4	11.04	32.9	100	69	P	H	
<b>802.11ax HE40 Partial 262/61 CH 151 5755MHz</b>													H	
													H	
			5642.75	55.02	-13.18	68.2	45.45	31.79	10.73	32.95	301	92	P	V
			5672.75	56.85	-28.23	85.08	47.24	31.8	10.76	32.95	301	92	P	V
			5713.25	57.42	-51.49	108.91	47.7	31.85	10.81	32.94	301	92	P	V
			5722	58.07	-57.29	115.36	48.3	31.89	10.82	32.94	301	92	P	V
		*	5755	111.08	-	-	101.14	32.01	10.86	32.93	301	92	P	V
		*	5755	100.41	-	-	90.47	32.01	10.86	32.93	301	92	A	V
			5853	53.47	-61.89	115.36	43.12	32.31	10.96	32.92	301	92	P	V
			5857.25	53.63	-56.54	110.17	43.28	32.31	10.96	32.92	301	92	P	V
			5897.75	54.26	-34.07	88.33	43.77	32.4	11	32.91	301	92	P	V
			5949.25	54.31	-13.89	68.2	43.77	32.4	11.04	32.9	301	92	P	V
														V
														V



WiFi Ant. 1+2	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE40 Partial 262/62 CH 159 5795MHz		5637.25	53.81	-14.39	68.2	44.28	31.77	10.72	32.96	100	68	P	H	
		5695.5	55.41	-46.47	101.88	45.76	31.8	10.79	32.94	100	68	P	H	
		5703	55.56	-50.48	106.04	45.89	31.81	10.8	32.94	100	68	P	H	
		5723	55.6	-62.04	117.64	45.83	31.89	10.82	32.94	100	68	P	H	
	*	5795	113.18	-	-	103.12	32.09	10.9	32.93	100	68	P	H	
	*	5795	102.42	-	-	92.36	32.09	10.9	32.93	100	68	A	H	
		5851.75	56.06	-62.15	118.21	45.72	32.3	10.96	32.92	100	68	P	H	
		5867.5	55.6	-51.7	107.3	45.21	32.33	10.97	32.91	100	68	P	H	
		5889.5	54.7	-39.74	94.44	44.24	32.38	10.99	32.91	100	68	P	H	
		5927.25	53.47	-14.73	68.2	42.95	32.4	11.02	32.9	100	68	P	H	
														H
														H
			5634	52.14	-16.06	68.2	42.61	31.77	10.72	32.96	296	91	P	V
			5692.75	53.87	-45.99	99.86	44.23	31.8	10.79	32.95	296	91	P	V
			5717.75	53.59	-56.58	110.17	43.84	31.87	10.82	32.94	296	91	P	V
			5721.75	53.41	-61.38	114.79	43.64	31.89	10.82	32.94	296	91	P	V
	*		5795	110.66	-	-	100.6	32.09	10.9	32.93	296	91	P	V
	*		5795	100.5	-	-	90.44	32.09	10.9	32.93	296	91	A	V
			5852.5	54.32	-62.18	116.5	43.97	32.31	10.96	32.92	296	91	P	V
			5869.75	53.44	-53.23	106.67	43.04	32.34	10.97	32.91	296	91	P	V
		5877.25	52.52	-51.01	103.53	42.1	32.35	10.98	32.91	296	91	P	V	
		5941	51.95	-16.25	68.2	41.41	32.4	11.04	32.9	296	91	P	V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



**Band 4 5725~5850MHz**

**WIFI 802.11ax HE40\_Partial 242 (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ax HE40 Partial 262/61 CH 151 5755MHz		11510	47.68	-26.32	74	56.36	39.77	17.77	66.22	100	0	P	H
		17265	45.74	-22.46	68.2	48.96	40.13	22.78	66.13	100	0	P	H
													H
													H
		11510	47.8	-26.2	74	56.48	39.77	17.77	66.22	100	0	P	V
		17265	45.23	-22.97	68.2	48.45	40.13	22.78	66.13	100	0	P	V
													V
													V
802.11ax HE40 Partial 262/62 CH 159 5795MHz		11590	47.75	-26.25	74	56.59	39.53	17.85	66.22	100	0	P	H
		17385	47.72	-20.48	68.2	49.94	40.88	22.9	66	100	0	P	H
													H
													H
		11590	47.41	-26.59	74	56.25	39.53	17.85	66.22	100	0	P	V
		17385	48.11	-20.09	68.2	50.33	40.88	22.9	66	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE80\_Full (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5626.25	61.25	-6.95	68.2	51.75	31.75	10.71	32.96	100	67	P	H
		5691	62.32	-36.24	98.56	52.69	31.8	10.78	32.95	100	67	P	H
		5710.5	62.09	-46.05	108.14	52.38	31.84	10.81	32.94	100	67	P	H
		5723.75	63.17	-56.18	119.35	53.39	31.9	10.82	32.94	100	67	P	H
	*	5775	106.79	-	-	96.79	32.05	10.88	32.93	100	67	P	H
	*	5775	96.58	-	-	86.58	32.05	10.88	32.93	100	67	A	H
		5850.25	61.07	-60.56	121.63	50.73	32.3	10.96	32.92	100	67	P	H
		5855	60.39	-50.41	110.8	50.04	32.31	10.96	32.92	100	67	P	H
		5912.75	58.95	-18.29	77.24	48.45	32.4	11.01	32.91	100	67	P	H
		5925.5	58.73	-9.47	68.2	48.21	32.4	11.02	32.9	100	67	P	H
<b>802.11ax</b>													H
<b>HE80 Full</b>													H
<b>CH 155</b>		5646.75	59.77	-8.43	68.2	50.2	31.79	10.73	32.95	298	91	P	V
<b>5775MHz</b>		5694.5	60.98	-40.17	101.15	51.33	31.8	10.79	32.94	298	91	P	V
		5716	62.02	-47.66	109.68	52.29	31.86	10.81	32.94	298	91	P	V
		5721	59.02	-54.06	113.08	49.26	31.88	10.82	32.94	298	91	P	V
	*	5775	105.46	-	-	95.46	32.05	10.88	32.93	298	91	P	V
	*	5775	95.74	-	-	85.74	32.05	10.88	32.93	298	91	A	V
		5850.75	58.71	-61.78	120.49	48.37	32.3	10.96	32.92	298	91	P	V
		5856.75	59.31	-51	110.31	48.96	32.31	10.96	32.92	298	91	P	V
		5921.5	59	-11.78	70.78	48.48	32.4	11.02	32.9	298	91	P	V
		5926.75	57.05	-11.15	68.2	46.53	32.4	11.02	32.9	298	91	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 5725~5850MHz**

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

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE80 Full CH 155 5775MHz		11550	48.03	-25.97	74	56.79	39.65	17.81	66.22	100	0	P	H	
		17325	47.02	-21.18	68.2	49.84	40.4	22.84	66.06	100	0	P	H	
													H	
													H	
			11550	47.36	-26.64	74	56.12	39.65	17.81	66.22	100	0	P	V
			17325	45.63	-22.57	68.2	48.45	40.4	22.84	66.06	100	0	P	V
														V
														V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE80\_Partial 484 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5624.5	63.2	-5	68.2	53.7	31.75	10.71	32.96	100	70	P	H
		5698.5	64.01	-40.08	104.09	54.36	31.8	10.79	32.94	100	70	P	H
		5718.5	68.66	-41.72	110.38	58.91	31.87	10.82	32.94	100	70	P	H
		5722.75	69.62	-47.45	117.07	59.85	31.89	10.82	32.94	100	70	P	H
	*	5775	109.25	-	-	99.25	32.05	10.88	32.93	100	70	P	H
	*	5775	99.68	-	-	89.68	32.05	10.88	32.93	100	70	A	H
		5853.25	57.49	-57.3	114.79	47.14	32.31	10.96	32.92	100	70	P	H
		5866.25	59.28	-48.37	107.65	48.89	32.33	10.97	32.91	100	70	P	H
		5924.25	59.88	-8.87	68.75	49.36	32.4	11.02	32.9	100	70	P	H
		5948.75	58.29	-9.91	68.2	47.75	32.4	11.04	32.9	100	70	P	H
<b>802.11ax</b>													H
<b>HE80</b>													H
<b>Partial</b>													H
<b>484/65</b>		5601.25	59.52	-8.68	68.2	50.1	31.7	10.68	32.96	284	93	P	V
<b>CH 155</b>		5694.75	60.08	-41.25	101.33	50.43	31.8	10.79	32.94	284	93	P	V
<b>5775MHz</b>		5716.5	66.91	-42.91	109.82	57.17	31.87	10.81	32.94	284	93	P	V
		5723.75	70.06	-49.29	119.35	60.28	31.9	10.82	32.94	284	93	P	V
	*	5775	108.99	-	-	98.99	32.05	10.88	32.93	284	93	P	V
	*	5775	99.11	-	-	89.11	32.05	10.88	32.93	284	93	A	V
		5850.25	56.19	-65.44	121.63	45.85	32.3	10.96	32.92	284	93	P	V
		5856	56.42	-54.1	110.52	46.07	32.31	10.96	32.92	284	93	P	V
		5899.75	56.3	-30.55	86.85	45.81	32.4	11	32.91	284	93	P	V
		5937.25	56.77	-11.43	68.2	46.24	32.4	11.03	32.9	284	93	P	V
													V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												





WiFi Ant. 1+2	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE80 Partial 484/66 CH 155 5775MHz		5604.25	62.36	-5.84	68.2	52.93	31.71	10.68	32.96	100	72	P	H	
		5654.5	61.55	-9.99	71.54	51.96	31.8	10.74	32.95	100	72	P	H	
		5703	62.36	-43.68	106.04	52.69	31.81	10.8	32.94	100	72	P	H	
		5723.25	61.79	-56.42	118.21	52.02	31.89	10.82	32.94	100	72	P	H	
	*	5775	110.87	-	-	100.87	32.05	10.88	32.93	100	72	P	H	
	*	5775	101.01	-	-	91.01	32.05	10.88	32.93	100	72	A	H	
		5852.5	61.3	-55.2	116.5	50.95	32.31	10.96	32.92	100	72	P	H	
		5866.5	58.88	-48.7	107.58	48.49	32.33	10.97	32.91	100	72	P	H	
		5882	59.26	-40.74	100	48.83	32.36	10.98	32.91	100	72	P	H	
		5935.25	58.9	-9.3	68.2	48.37	32.4	11.03	32.9	100	72	P	H	
														H
														H
			5634.75	59.08	-9.12	68.2	49.55	31.77	10.72	32.96	299	98	P	V
			5654.25	58.37	-12.99	71.36	48.78	31.8	10.74	32.95	299	98	P	V
			5705.25	58.44	-48.23	106.67	48.76	31.82	10.8	32.94	299	98	P	V
			5720	57.67	-53.13	110.8	47.91	31.88	10.82	32.94	299	98	P	V
	*		5775	109.11	-	-	99.11	32.05	10.88	32.93	299	98	P	V
	*		5775	99.44	-	-	89.44	32.05	10.88	32.93	299	98	A	V
			5854.5	58.43	-53.51	111.94	48.08	32.31	10.96	32.92	299	98	P	V
			5861	59.51	-49.61	109.12	49.15	32.32	10.96	32.92	299	98	P	V
		5914.25	58.07	-18.06	76.13	47.57	32.4	11.01	32.91	299	98	P	V	
		5943	57.53	-10.67	68.2	46.99	32.4	11.04	32.9	299	98	P	V	
													V	
													V	
<b>Remark</b>	<ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> </ol>													



Band 4 5725~5850MHz

WIFI 802.11ax HE80\_Partial 484 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11ax HE80 Partial 484/65CH 155 5775MHz		11550	47.43	-26.57	74	56.19	39.65	17.81	66.22	100	0	P	H
		17325	47.05	-21.15	68.2	49.87	40.4	22.84	66.06	100	0	P	H
													H
													H
		11550	49.4	-24.6	74	58.16	39.65	17.81	66.22	100	0	P	V
		17325	45.53	-22.67	68.2	48.35	40.4	22.84	66.06	100	0	P	V
													V
													V
802.11ax HE80 Partial 484/66 CH 155 5775MHz		11550	48.71	-25.29	74	57.47	39.65	17.81	66.22	100	0	P	H
		17325	46.53	-21.67	68.2	49.35	40.4	22.84	66.06	100	0	P	H
													H
													H
		11550	48.19	-25.81	74	56.95	39.65	17.81	66.22	100	0	P	V
		17325	46.98	-21.22	68.2	49.8	40.4	22.84	66.06	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11ax HE80 Partial RU 484 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
1+2		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )	
802.11ax HE80 Partial RU 484 LF		83.35	28.75	-11.25	40	46.32	13.57	1.38	32.52	100	0	P	H	
		114.39	31.03	-12.47	43.5	44.81	17.11	1.62	32.51	-	-	P	H	
		145.43	27.38	-16.12	43.5	41.04	17.02	1.84	32.52	-	-	P	H	
		360.77	29.84	-16.16	46	38.26	20.62	2.87	31.91	-	-	P	H	
		841.89	30.87	-15.13	46	29.02	28.91	4.37	31.43	-	-	P	H	
		956.35	31.5	-14.5	46	26.64	30.98	4.71	30.83	-	-	P	H	
														H
														H
														H
														H
														H
														H
			34.85	32.92	-7.08	40	42.61	21.88	0.9	32.47	-	-	P	V
			82.38	33.93	-6.07	40	51.51	13.56	1.38	32.52	100	0	P	V
			114.39	30.91	-12.59	43.5	44.69	17.11	1.62	32.51	-	-	P	V
			481.05	27.36	-18.64	46	32.52	23.67	3.27	32.1	-	-	P	V
			846.74	30.45	-15.55	46	28.42	29.06	4.38	31.41	-	-	P	V
			944.71	30.97	-15.03	46	26.79	30.4	4.69	30.91	-	-	P	V
													V	
													V	
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



<TXBF Mode>

Band 4 - 5725~5850MHz

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

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.	
1+2		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )	
802.11ax HE20 Full CH 149 5745MHz		5643.6	59.91	-8.29	68.2	50.34	31.79	10.73	32.95	276	51	P	H	
		5697.4	66.57	-36.71	103.28	56.92	31.8	10.79	32.94	276	51	P	H	
		5718.2	84.21	-26.09	110.3	74.46	31.87	10.82	32.94	276	51	P	H	
		5723.2	89.27	-28.83	118.1	79.5	31.89	10.82	32.94	276	51	P	H	
	*	5745	118.18	-	-	108.29	31.98	10.85	32.94	276	51	P	H	
	*	5745	108.74	-	-	98.85	31.98	10.85	32.94	276	51	A	H	
														H
														H
			5649	59.64	-8.56	68.2	50.05	31.8	10.74	32.95	222	0	P	V
			5696	68.67	-33.58	102.25	59.02	31.8	10.79	32.94	222	0	P	V
			5719.8	83.85	-26.89	110.74	74.09	31.88	10.82	32.94	222	0	P	V
			5725	90.99	-31.21	122.2	81.21	31.9	10.82	32.94	222	0	P	V
	*		5745	118.47	-	-	108.58	31.98	10.85	32.94	222	0	P	V
	*		5745	108.54	-	-	98.65	31.98	10.85	32.94	222	0	A	V
													V	
													V	



WiFi Ant. 1+2	Note	Frequency ( MHz )	Level ( dBµV/m )	Over Limit ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Full CH 157 5785MHz		5634	54.96	-13.24	68.2	45.43	31.77	10.72	32.96	100	351	P	H	
		5697.75	57.45	-46.09	103.54	47.8	31.8	10.79	32.94	100	351	P	H	
		5720	66.6	-44.2	110.8	56.84	31.88	10.82	32.94	100	351	P	H	
		5722.75	67.74	-49.33	117.07	57.97	31.89	10.82	32.94	100	351	P	H	
	*	5785	117.57	-	-	107.54	32.07	10.89	32.93	100	351	P	H	
	*	5785	107.91	-	-	97.88	32.07	10.89	32.93	100	351	A	H	
		5850.25	60	-61.63	121.63	49.66	32.3	10.96	32.92	100	351	P	H	
		5868.75	59.53	-47.42	106.95	49.13	32.34	10.97	32.91	100	351	P	H	
		5901	57.24	-28.68	85.92	46.75	32.4	11	32.91	100	351	P	H	
		5933.75	55.91	-12.29	68.2	45.38	32.4	11.03	32.9	100	351	P	H	
														H
														H
			5648.5	54.14	-14.06	68.2	44.55	31.8	10.74	32.95	219	0	P	V
			5681.25	56.16	-35.2	91.36	46.54	31.8	10.77	32.95	219	0	P	V
			5712.75	59.94	-48.83	108.77	50.22	31.85	10.81	32.94	219	0	P	V
			5721	60.6	-52.48	113.08	50.84	31.88	10.82	32.94	219	0	P	V
	*		5785	116.02	-	-	105.99	32.07	10.89	32.93	219	0	P	V
	*		5785	106.36	-	-	96.33	32.07	10.89	32.93	219	0	A	V
			5854	59.42	-53.66	113.08	49.07	32.31	10.96	32.92	219	0	P	V
			5865	57.26	-50.74	108	46.87	32.33	10.97	32.91	219	0	P	V
		5880.25	54.4	-46.9	101.3	43.97	32.36	10.98	32.91	219	0	P	V	
		5928	53.52	-14.68	68.2	42.99	32.4	11.03	32.9	219	0	P	V	
													V	
													V	



WiFi Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Full CH 165 5825MHz	*	5825	119.19	-	-	108.98	32.2	10.93	32.92	100	360	P	H	
	*	5825	108.71	-	-	98.5	32.2	10.93	32.92	100	360	A	H	
		5850.4	82.79	-38.5	121.29	72.45	32.3	10.96	32.92	100	360	P	H	
		5856	77.03	-33.49	110.52	66.68	32.31	10.96	32.92	100	360	P	H	
		5875.6	66.96	-37.79	104.75	56.54	32.35	10.98	32.91	100	360	P	H	
		5926.4	57.89	-10.31	68.2	47.37	32.4	11.02	32.9	100	360	P	H	
														H
														H
	*	5825	116.93	-	-	106.72	32.2	10.93	32.92	400	0	0	P	V
	*	5825	106.84	-	-	96.63	32.2	10.93	32.92	400	0	0	A	V
		5850.4	80.41	-40.88	121.29	70.07	32.3	10.96	32.92	400	0	0	P	V
		5856	73.87	-36.65	110.52	63.52	32.31	10.96	32.92	400	0	0	P	V
		5875	62.34	-42.86	105.2	51.92	32.35	10.98	32.91	400	0	0	P	V
		5925.6	55.38	-12.82	68.2	44.86	32.4	11.02	32.9	400	0	0	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 5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE20 Full CH 149 5745MHz		11490	52.69	-21.31	74	61.37	39.79	17.75	66.22	204	276	P	H	
		11490	44.17	-9.83	54	52.85	39.79	17.75	66.22	204	276	A	H	
		17235	55.16	-13.04	68.2	58.5	40.07	22.75	66.16	100	0	P	H	
													H	
			11490	48.41	-25.59	74	57.09	39.79	17.75	66.22	100	0	P	V
			17235	53.03	-15.17	68.2	56.37	40.07	22.75	66.16	100	0	P	V
														V
802.11ax HE20 Full CH 157 5785MHz		11570	49.98	-24.02	74	58.78	39.59	17.83	66.22	100	0	P	H	
		17355	53.46	-14.74	68.2	55.98	40.64	22.87	66.03	100	0	P	H	
													H	
													H	
			11570	47.47	-26.53	74	56.27	39.59	17.83	66.22	100	0	P	V
			17355	49.46	-18.74	68.2	51.98	40.64	22.87	66.03	100	0	P	V
														V
802.11ax HE20 Full CH 165 5825MHz		11650	52.74	-21.26	74	61.81	39.25	17.9	66.22	144	280	P	H	
		11650	45.64	-8.36	54	54.71	39.25	17.9	66.22	144	280	A	H	
		17475	56.16	-12.04	68.2	57.7	41.38	22.98	65.9	100	0	P	H	
													H	
			11650	47.3	-26.7	74	56.37	39.25	17.9	66.22	100	0	P	V
			17475	52.33	-15.87	68.2	53.87	41.38	22.98	65.9	100	0	P	V
														V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE40\_Full (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5649.25	64.97	-3.23	68.2	55.38	31.8	10.74	32.95	225	344	P	H
		5699.5	79.18	-25.65	104.83	69.53	31.8	10.79	32.94	225	344	P	H
		5719.25	95.06	-15.53	110.59	85.3	31.88	10.82	32.94	225	344	P	H
		5725	94.17	-28.03	122.2	84.39	31.9	10.82	32.94	225	344	P	H
	*	5755	115.37	-	-	105.43	32.01	10.86	32.93	225	344	P	H
	*	5755	103.86	-	-	93.92	32.01	10.86	32.93	225	344	A	H
		5853.5	67.31	-46.91	114.22	56.96	32.31	10.96	32.92	225	344	P	H
		5855	66.64	-44.16	110.8	56.29	32.31	10.96	32.92	225	344	P	H
		5885.25	62.51	-35.08	97.59	52.06	32.37	10.99	32.91	225	344	P	H
		5926	59.85	-8.35	68.2	49.33	32.4	11.02	32.9	225	344	P	H
<b>802.11ax</b>													H
<b>HE40 Full</b>													H
<b>CH 151</b>		5649.75	63.03	-5.17	68.2	53.44	31.8	10.74	32.95	278	331	P	V
<b>5755MHz</b>		5699	80.39	-24.07	104.46	70.74	31.8	10.79	32.94	278	331	P	V
		5720	90.88	-19.92	110.8	81.12	31.88	10.82	32.94	278	331	P	V
		5723.25	91.63	-26.58	118.21	81.86	31.89	10.82	32.94	278	331	P	V
	*	5755	111	-	-	101.06	32.01	10.86	32.93	278	331	P	V
	*	5755	100.86	-	-	90.92	32.01	10.86	32.93	278	331	A	V
		5853.5	64.14	-50.08	114.22	53.79	32.31	10.96	32.92	278	331	P	V
		5861.75	63.75	-45.16	108.91	53.37	32.32	10.97	32.91	278	331	P	V
		5886.5	59.39	-37.27	96.66	48.94	32.37	10.99	32.91	278	331	P	V
		5936.5	58.1	-10.1	68.2	47.57	32.4	11.03	32.9	278	331	P	V
													V
													V





WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
		5638.75	57.72	-10.48	68.2	48.18	31.78	10.72	32.96	223	340	P	H
		5699.75	65.63	-39.39	105.02	55.98	31.8	10.79	32.94	223	340	P	H
		5720	74.18	-36.62	110.8	64.42	31.88	10.82	32.94	223	340	P	H
		5721.5	76.89	-37.33	114.22	67.12	31.89	10.82	32.94	223	340	P	H
	*	5795	114.73	-	-	104.67	32.09	10.9	32.93	223	340	P	H
	*	5795	103.13	-	-	93.07	32.09	10.9	32.93	223	340	A	H
		5851.75	79.51	-38.7	118.21	69.17	32.3	10.96	32.92	223	340	P	H
		5860.25	76.87	-32.46	109.33	66.51	32.32	10.96	32.92	223	340	P	H
		5876.25	69.24	-35.03	104.27	58.82	32.35	10.98	32.91	223	340	P	H
		5935.25	57.74	-10.46	68.2	47.21	32.4	11.03	32.9	223	340	P	H
<b>802.11ax</b>													H
<b>HE40 Full</b>													H
<b>CH 159</b>		5648.75	56.89	-11.31	68.2	47.3	31.8	10.74	32.95	209	0	P	V
<b>5795MHz</b>		5697	66.22	-36.77	102.99	56.57	31.8	10.79	32.94	209	0	P	V
		5719.75	71.6	-39.13	110.73	61.84	31.88	10.82	32.94	209	0	P	V
		5724.5	72.12	-48.94	121.06	62.34	31.9	10.82	32.94	209	0	P	V
	*	5795	114.69	-	-	104.63	32.09	10.9	32.93	209	0	P	V
	*	5795	104.3	-	-	94.24	32.09	10.9	32.93	209	0	A	V
		5850	76.78	-45.42	122.2	66.45	32.3	10.95	32.92	209	0	P	V
		5855.75	73.57	-37.02	110.59	63.22	32.31	10.96	32.92	209	0	P	V
		5882.75	66.99	-32.45	99.44	56.55	32.37	10.98	32.91	209	0	P	V
		5925.75	57.17	-11.03	68.2	46.65	32.4	11.02	32.9	209	0	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 5725~5850MHz**  
**WIFI 802.11ax HE40\_Full (Harmonic @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE40 Full CH 151 5755MHz		11510	48.71	-25.29	74	57.39	39.77	17.77	66.22	100	0	P	H	
		17265	54.01	-14.19	68.2	57.23	40.13	22.78	66.13	100	0	P	H	
													H	
													H	
			11510	47.54	-26.46	74	56.22	39.77	17.77	66.22	100	0	P	V
			17265	50.24	-17.96	68.2	53.46	40.13	22.78	66.13	100	0	P	V
														V
802.11ax HE40 Full CH 159 5795MHz		11590	49.78	-24.22	74	58.62	39.53	17.85	66.22	100	0	P	H	
		17385	55.32	-12.88	68.2	57.54	40.88	22.9	66	100	0	P	H	
													H	
													H	
			11590	47.55	-26.45	74	56.39	39.53	17.85	66.22	100	0	P	V
			17385	51.01	-17.19	68.2	53.23	40.88	22.9	66	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE80\_Full (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5643.75	66.07	-2.13	68.2	56.5	31.79	10.73	32.95	225	302	P	H
		5692.75	79.71	-20.15	99.86	70.07	31.8	10.79	32.95	225	302	P	H
		5719.5	80.77	-29.89	110.66	71.01	31.88	10.82	32.94	225	302	P	H
		5722.25	82.63	-33.3	115.93	72.86	31.89	10.82	32.94	225	302	P	H
	*	5775	110.12	-	-	100.12	32.05	10.88	32.93	225	302	P	H
	*	5775	104.36	-	-	94.36	32.05	10.88	32.93	225	302	A	H
		5853.75	80.29	-33.36	113.65	69.94	32.31	10.96	32.92	225	302	P	H
		5856.25	77.58	-32.87	110.45	67.23	32.31	10.96	32.92	225	302	P	H
		5875	72.45	-32.75	105.2	62.03	32.35	10.98	32.91	225	302	P	H
		5934	62.05	-6.15	68.2	51.52	32.4	11.03	32.9	225	302	P	H
<b>802.11ax</b>													H
<b>HE80 Full</b>													H
<b>CH 155</b>		5646.75	65.87	-2.33	68.2	56.3	31.79	10.73	32.95	100	334	P	V
<b>5775MHz</b>		5699.5	80.36	-24.47	104.83	70.71	31.8	10.79	32.94	100	334	P	V
		5714.5	83.14	-26.12	109.26	73.41	31.86	10.81	32.94	100	334	P	V
		5722.5	82.69	-33.81	116.5	72.92	31.89	10.82	32.94	100	334	P	V
	*	5775	110.87	-	-	100.87	32.05	10.88	32.93	100	334	P	V
	*	5775	103.64	-	-	93.64	32.05	10.88	32.93	100	334	A	V
		5850.25	80.84	-40.79	121.63	70.5	32.3	10.96	32.92	100	334	P	V
		5861	78.95	-30.17	109.12	68.59	32.32	10.96	32.92	100	334	P	V
		5876.25	72.86	-31.41	104.27	62.44	32.35	10.98	32.91	100	334	P	V
		5925.5	64.55	-3.65	68.2	54.03	32.4	11.02	32.9	100	334	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 5725~5850MHz**

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

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE80 Full CH 155 5775MHz		11550	47.15	-26.85	74	55.91	39.65	17.81	66.22	100	0	P	H	
		17325	48.97	-19.23	68.2	51.79	40.4	22.84	66.06	100	0	P	H	
													H	
													H	
			11550	47.15	-26.85	74	55.91	39.65	17.81	66.22	100	0	P	V
			17325	48.94	-19.26	68.2	51.76	40.4	22.84	66.06	100	0	P	V
														V
														V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Emission below 1GHz

WIFI 802.11ax HE80 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
1+2		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )	
802.11ax HE80 Full LF		82.38	27.67	-12.33	40	45.25	13.56	1.38	32.52	-	-	P	H	
		109.54	32.28	-11.22	43.5	46.49	16.7	1.59	32.5	100	0	P	H	
		240.49	27.95	-18.05	46	40.88	17.06	2.38	32.37	-	-	P	H	
		384.05	29.53	-16.47	46	37.21	21.19	2.96	31.83	-	-	P	H	
		481.05	27.41	-18.59	46	32.57	23.67	3.27	32.1	-	-	P	H	
		860.32	30.92	-15.08	46	28.54	29.31	4.43	31.36	-	-	P	H	
														H
														H
														H
														H
														H
														H
														H
			34.85	33.14	-6.86	40	42.83	21.88	0.9	32.47	100	258	QP	V
			81.41	33.95	-6.05	40	51.62	13.47	1.38	32.52	-	-	P	V
			122.15	31.79	-11.71	43.5	45.3	17.33	1.67	32.51	-	-	P	V
			481.05	28.6	-17.4	46	33.76	23.67	3.27	32.1	-	-	P	V
			717.73	34.36	-11.64	46	35.62	26.97	4.02	32.25	-	-	P	V
			961.2	38.3	-15.7	54	33.23	31.15	4.72	30.8	-	-	P	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.	
1+2		( 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 C. Radiated Spurious Emission Plots

Test Engineer :	Bill Chang, Fu Chen and Troye Hsieh	Temperature :	18.2~24.2°C
		Relative Humidity :	43.2~70.1%

<CDD Mode>

**Band 4 - 5725~5850MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(84)_16-24 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>





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



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



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LIN)1 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY          Condition : PEAK_BE[84], 16-24 3m HORN 91200-HF_1326 HORIZONTAL          :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY          Condition : PEAK(LINE) 3m HORN 91200-HF_1326 HORIZONTAL          :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE[84], 16-24 3m HORN 91200-HF_1326 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK[UND], 3m HORN 91200-HF_1326 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE20 Full (Band Edge @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE20 Full CH149 5745MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	<p>Site : 03CH11-1HY          Condition : PEAK_BE(84)_16-24 3m HORN 9120D-HF_1326 HORIZONTAL          : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH11-1HY          Condition : PEAK(UNIT) 3m HORN 9120D-HF_1326 HORIZONTAL          : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LINB) 3m HORN 91200-HF_1326 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 HORIZONTAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(FUN1) 3m HORN 91200-HF_1326 HORIZONTAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 HORIZONTAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank





WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LIN)1 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY          Condition : PEAK_8E[84], 16-24 3m HORN 91200-HF_1326 HORIZONTAL          :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY          Condition : PEAK[LINE] 3m HORN 91200-HF_1326 HORIZONTAL          :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



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



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE20 Partial 106/53 CH149 5745MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	<p>Site : 03CH11-1HY          Condition : PEAK_BE(84)_16-24 3m HORN 9120D-HF_1326 HORIZONTAL          : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH11-1HY          Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 HORIZONTAL          : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak		



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak		



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY          Condition : PEAK_8E(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL          :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY          Condition : PEAK(LINE) 3m HORN 91200-HF_1326 VERTICAL          :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE40 Full (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH11-1HY            Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 HORIZONTAL            : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-1HY            Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL            : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	<p>Site : 03CH11-1HY            Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 HORIZONTAL            : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank





WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LIN)1 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 HORIZONTAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LIN)1 3m HORN 91200-HF_1326 HORIZONTAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 HORIZONTAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(FUN1) 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE40 Partial 242 (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH11-1HY            Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH11-1HY            Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	<p>Site : 03CH11-1HY            Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	<p>Date: 2021-04-06</p> <p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Date: 2021-04-06</p> <p>Site : 03CH11-HY Condition : PEAK(FUNB) 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	<p>Date: 2021-04-06</p> <p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 HORIZONTAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LIN)1 3m HORN 91200-HF_1326 HORIZONTAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 HORIZONTAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/62 CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LIN)1 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE80 Full (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH11-1HY            Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH11-1HY            Condition : PEAK(UNB) 3m HORN 91200-HF_1326 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	<p>Site : 03CH11-1HY            Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank





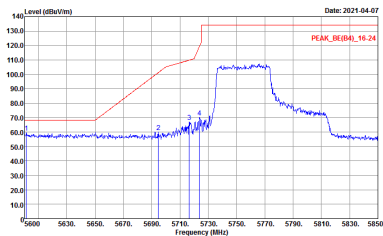
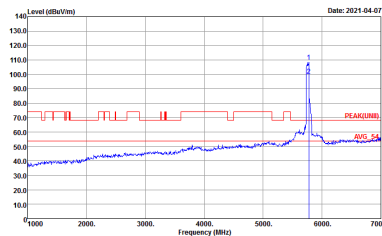
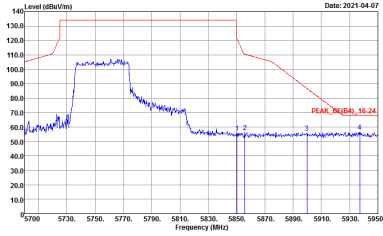
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LIN) 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE80 Partial 242 (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak		
Peak		Left blank

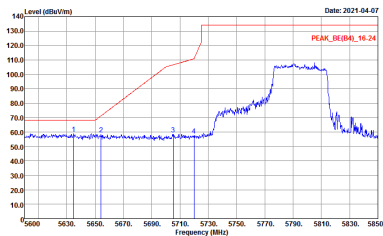
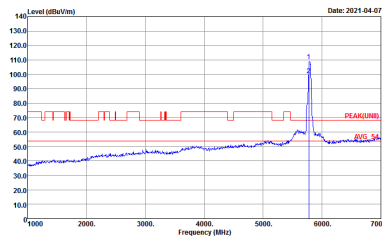
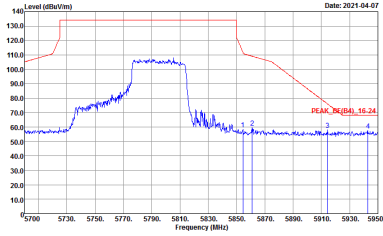


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH11-HY Condition : PEAK(FUNB) 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 HORIZONTAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LIN1) 3m HORN 91200-HF_1326 HORIZONTAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 HORIZONTAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	 <p>Date: 2021-04-07</p> <p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Date: 2021-04-07</p> <p>Site : 03CH11-HY Condition : PEAK(LIN)1 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	 <p>Date: 2021-04-07</p> <p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



Band 4 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

Table with 2 columns: Horizontal and Vertical. Each column contains a spectral plot showing Level (dBm/1m) vs Frequency (MHz) with Peak and Avg markers. Includes site and condition details for both orientations.



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11a CH157 5785MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CHI1-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 HORIZONTAL</p>	<p>Site : 03CHI1-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 VERTICAL</p>



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11a CH165 5825MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 HORIZONTAL</p>	<p>Site : 03CH11-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 VERTICAL</p>





**Band 4 5725~5850MHz  
WIFI 802.11ax HE20 Full (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE20 Full CH149 5745MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH11-14Y Condition : -PEAK(LINE) 3m HORN 9120D-HF_1326 HORIZONTAL</p>	<p>Site : 03CH11-14Y Condition : -PEAK(LINE) 3m HORN 9120D-HF_1326 VERTICAL</p>



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE20 Full CH157 5785MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CHI-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 HORIZONTAL</p>	<p>Site : 03CHI-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 VERTICAL</p>



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE20 Full CH165 5825MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CHI-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 HORIZONTAL</p>	<p>Site : 03CHI-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 VERTICAL</p>



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE20 Partial 106 (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE20 Partial 106/53 CH149 5745MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH11-14Y          Condition : -PEAK(LINE) 3m HORN 9120D-HF_1326 HORIZONTAL</p>	<p>Site : 03CH11-14Y          Condition : -PEAK(LINE) 3m HORN 9120D-HF_1326 VERTICAL</p>



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE20 Partial 106/54 CH165 5825MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CHI-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 HORIZONTAL</p>	<p>Site : 03CHI-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 VERTICAL</p>



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

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE40 Full CH151 5755MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH11-14Y          Condition : -PEAK(LINE) 3m HORN 9120D-HF_1326 HORIZONTAL</p>	<p>Site : 03CH11-14Y          Condition : -PEAK(LINE) 3m HORN 9120D-HF_1326 VERTICAL</p>



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE40 Full CH159 5795MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CHI-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 HORIZONTAL</p>	<p>Site : 03CHI-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 VERTICAL</p>



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE40 Partial 242 (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE40 Partial 242/61 CH151 5755MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>		





<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE40 Partial 242/62 CH159 5795MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CHI1-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 HORIZONTAL</p>	<p>Site : 03CHI1-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 VERTICAL</p>



**Band 4 5725~5850MHz  
WIFI 802.11ax HE80 Full (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE80 Full CH155 5775MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH11-14Y Condition : -PEAK(LINE) 3m HORN 9120D-HF_1326 HORIZONTAL</p>	<p>Site : 03CH11-14Y Condition : -PEAK(LINE) 3m HORN 9120D-HF_1326 VERTICAL</p>



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE80 Partial 242 (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE80 Partial 484/65 CH155 5775MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH11-14Y          Condition : -PEAK(LINE) 3m HORN 9120D-HF_1326 HORIZONTAL</p>	<p>Site : 03CH11-14Y          Condition : -PEAK(LINE) 3m HORN 9120D-HF_1326 VERTICAL</p>



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE80 Partial 484/66 CH155 5775MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CHI1-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 HORIZONTAL</p>	<p>Site : 03CHI1-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 VERTICAL</p>



Emission below 1GHz  
5GHz WIFI 802.11ax HE80 Full (LF)

WIFI	5GHz WIFI	
ANT	802.11ax HE80 Partial RU 484 LF	
1+2	Horizontal	Vertical
QP / Peak	<p>Site : 03CHI1-HY Condition : QP 3m 8E-LOG 6111D-LF_ETC HORIZONTAL</p>	<p>Site : 03CHI1-HY Condition : QP 3m 8E-LOG 6111D-LF_ETC VERTICAL</p>

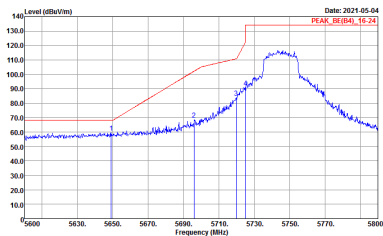
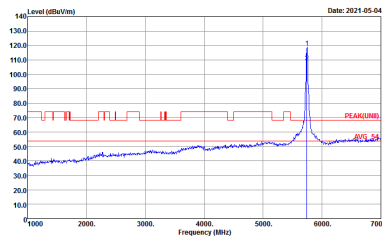


<TXBF Mode>

Band 4 - 5725~5850MHz
IFI 802.11ax HE20 Full (Band Edge @ 3m)

Table with 2 columns: Horizontal and Fundamental. It contains two spectral plots showing Level (dBu/m) vs Frequency (MHz) with various annotations like 'PEAK\_BE(B4)\_16.24' and 'AUG. 94'.



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_8E(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH11-HY Condition : PEAK(LINE) 3m HORN 91200-HF_1326 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



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





WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LIN)1 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_86(B4)_16-24 3m HORN 91200-HF_1326 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LIN1) 3m HORN 91200-HF_1326 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_86(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LINB) 3m HORN 91200-HF_1326 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE40 Full (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH11-1HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_1326 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH11-1HY            Condition : PEAK(UNIT) 3m HORN 9120D-HF_1326 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	<p>Site : 03CH11-1HY            Condition : PEAK_BE(B4)_16-24 3m HORN 9120D-HF_1326 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LIN)1 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full HT40 CH159 5795MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 HORIZONTAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(LIN)1 3m HORN 91200-HF_1326 HORIZONTAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 HORIZONTAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(FUN) 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL :RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE80 Full (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH11-1HY            Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH11-1HY            Condition : PEAK(UNIT) 3m HORN 91200-HF_1326 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	<p>Site : 03CH11-1HY            Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank





WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK(FUN1) 3m HORN 91200-HF_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE(B4)_16-24 3m HORN 91200-HF_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



Band 4 - 5725~5850MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

Table with 2 columns: Horizontal and Vertical. Each column contains a spectral plot showing Level (dBu/m) vs Frequency (MHz) with peak and average markers. Includes site and condition details for both orientations.



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE20 Full CH157 5785MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CHI-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 HORIZONTAL</p>	<p>Site : 03CHI-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 VERTICAL</p>



<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE20 Full CH165 5825MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CHI1-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 HORIZONTAL</p>	<p>Site : 03CHI1-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 VERTICAL</p>



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

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE40 Full CH151 5755MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH11-14Y Condition : -PEAK(LINE) 3m HORN 9120D-HF_1326 HORIZONTAL</p>	<p>Site : 03CH11-14Y Condition : -PEAK(LINE) 3m HORN 9120D-HF_1326 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CHI-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 HORIZONTAL</p>	<p>Site : 03CHI-HY Condition : PEAK(UNII) 3m HORN 9120D-HF_1326 VERTICAL</p>



**Band 4 5725~5850MHz  
WIFI 802.11ax HE80 Full (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11ax HE80 Full CH155 5775MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH11-14Y Condition : -PEAK(LINE) 3m HORN 9120D-HF_1326 HORIZONTAL</p>	<p>Site : 03CH11-14Y Condition : -PEAK(LINE) 3m HORN 9120D-HF_1326 VERTICAL</p>



Emission below 1GHz  
5GHz WIFI 802.11ax HE80 Full (LF)

WIFI	5GHz WIFI	
ANT	802.11ax HE80 Partial RU 484 LF	
1+2	Horizontal	Vertical
QP / Peak	<p>Site : 03CHI1-HY Condition : QP 3m 8E-LO6 6111D-LF_ETC HORIZONTAL</p>	<p>Site : 03CHI1-HY Condition : QP 3m 8E-LO6 6111D-LF_ETC VERTICAL</p>



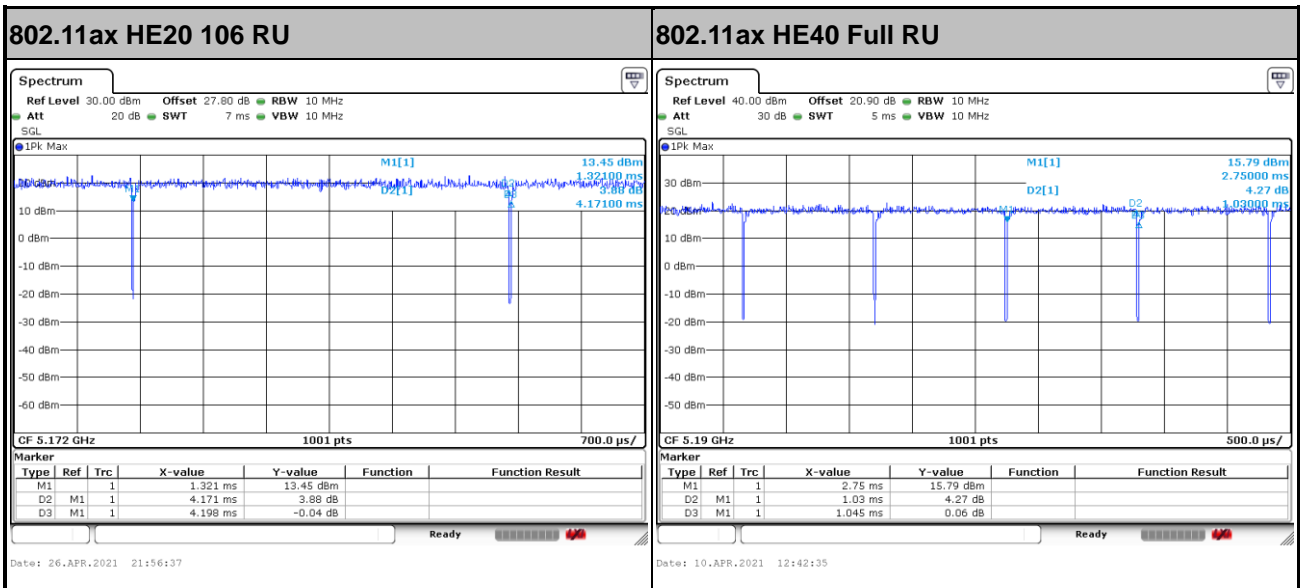
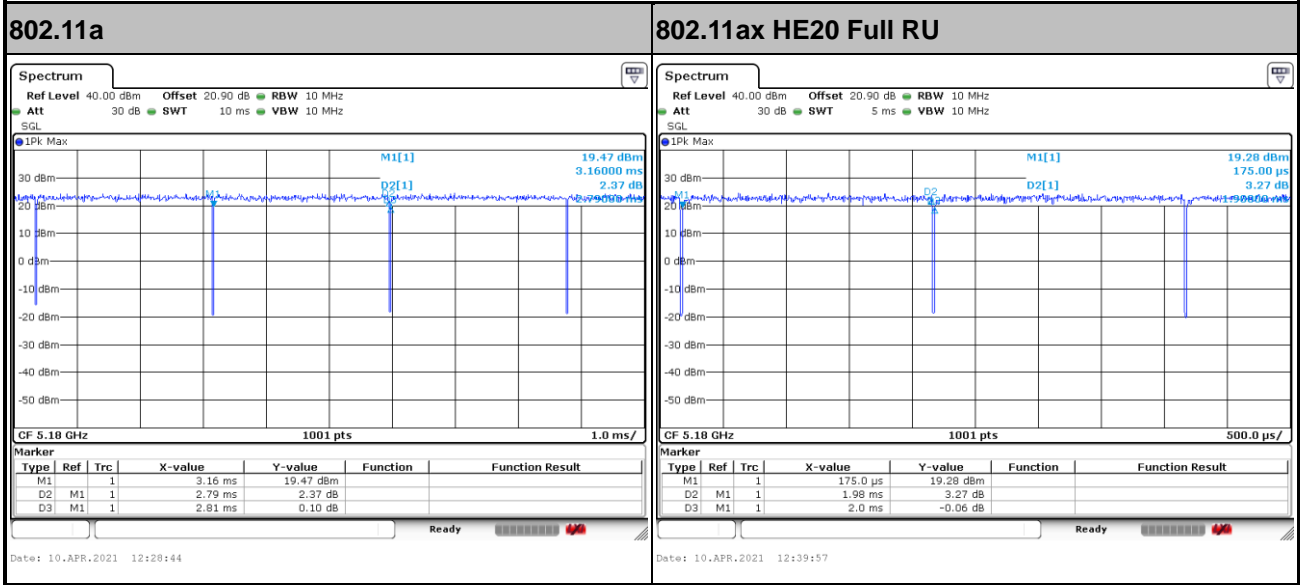


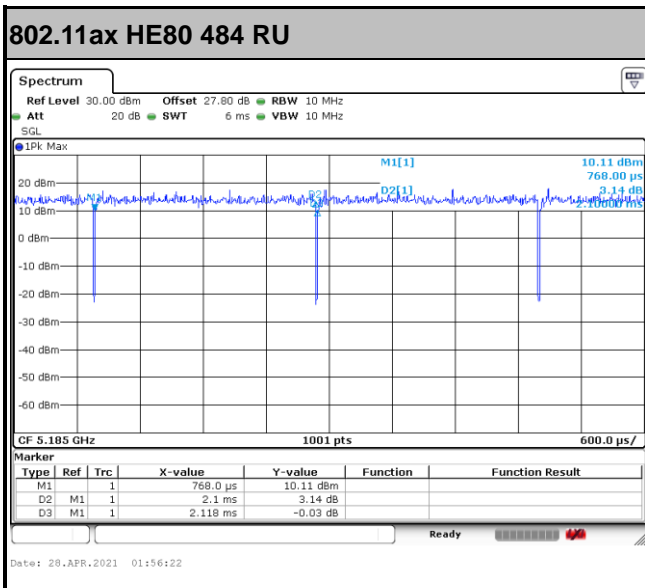
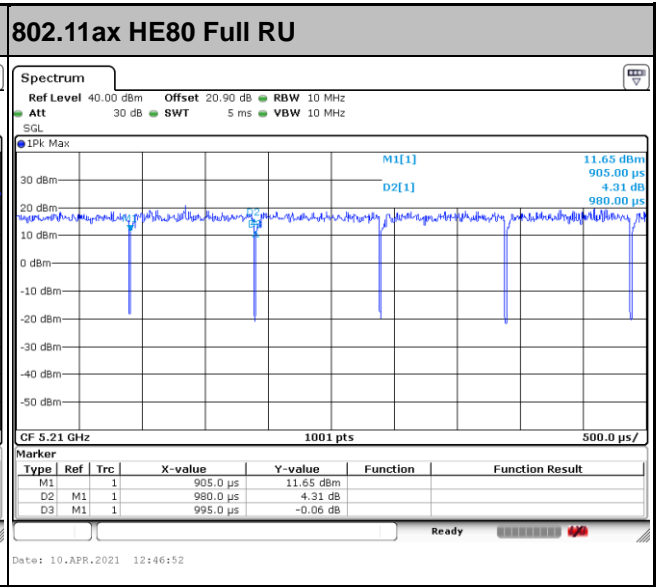
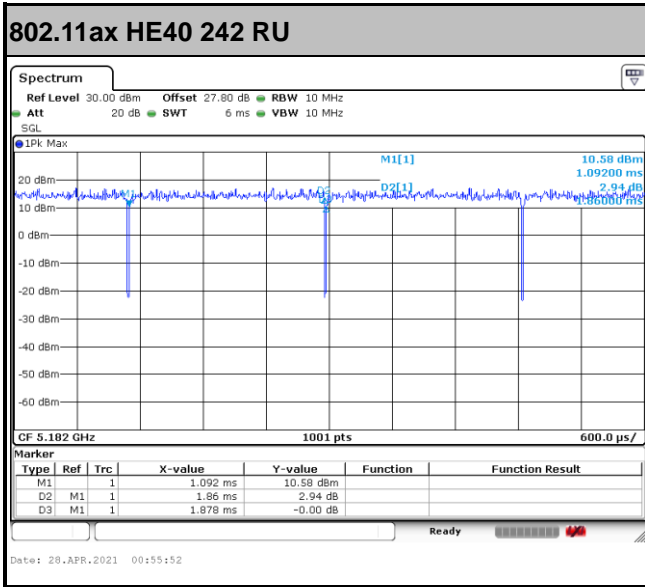
### Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1+2	802.11a for Ant 1	99.29	-	-	10Hz	0.03
1+2	802.11a for Ant 2	99.29	-	-	10Hz	0.03
1+2	5GHz 802.11ax HE20 Full RU for Ant 1	99.00	-	-	10Hz	0.04
1+2	5GHz 802.11ax HE20 Full RU for Ant 2	99.00	-	-	10Hz	0.04
1+2	5GHz 802.11ax HE20 106 RU for Ant 1	99.36	-	-	10Hz	0.03
1+2	5GHz 802.11ax HE20 106 RU for Ant 2	99.55	-	-	10Hz	0.02
1+2	5GHz 802.11ax HE40 Full RU for Ant 1	98.56	-	-	10Hz	0.06
1+2	5GHz 802.11ax HE40 Full RU for Ant 2	98.56	-	-	10Hz	0.06
1+2	5GHz 802.11ax HE40 242 RU for Ant 1	99.04	-	-	10Hz	0.04
1+2	5GHz 802.11ax HE40 242 RU for Ant 2	98.94	-	-	10Hz	0.05
1+2	5GHz 802.11ax HE80 Full RU for Ant 1	98.49	-	-	10Hz	0.07
1+2	5GHz 802.11ax HE80 Full RU for Ant 2	98.49	-	-	10Hz	0.07
1+2	5GHz 802.11ax HE80 484 RU for Ant 1	99.15	-	-	10Hz	0.04
1+2	5GHz 802.11ax HE80 484 RU for Ant 2	99.34	-	-	10Hz	0.03



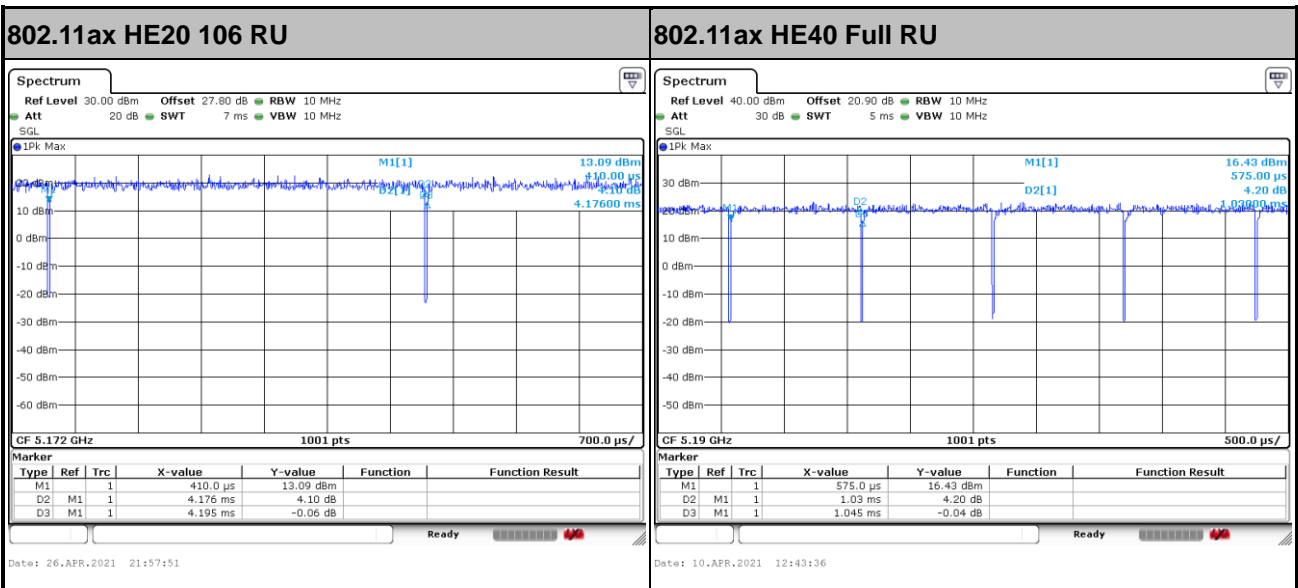
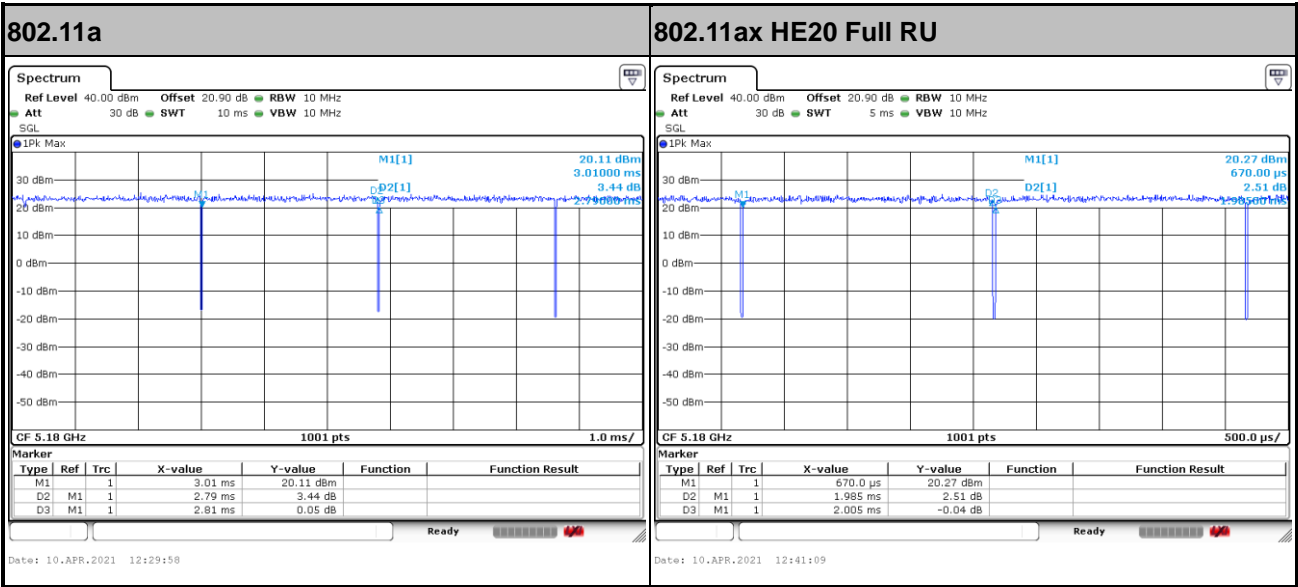
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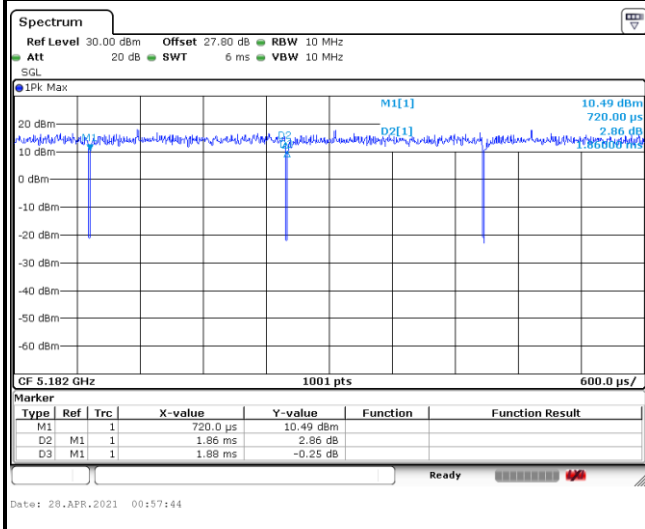


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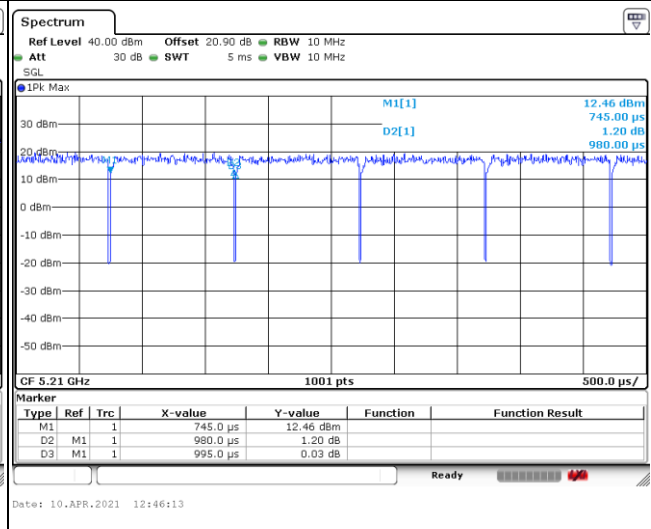




802.11ax HE40 242 RU



802.11ax HE80 Full RU



802.11ax HE80 484 RU

