



# FCC RADIO TEST REPORT

**FCC ID** : UZ7MC330X  
**Equipment** : Mobile Computer  
**Brand Name** : Zebra  
**Model Name** : MC330X  
**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 Apr. 06, 2021 and testing was started from Apr. 15, 2021 and completed on Jun. 08, 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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### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	Under limit 1.33 dB at 5641.800 MHz
3.5	15.207	AC Conducted Emission	Pass	Under limit 12.88 dB at 13.560 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: **Wei Chen**

Report Producer: **Cindy Liu**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Computer
Brand Name	Zebra
Model Name	MC330X
FCC ID	UZ7MC330X
SKU 1	Gun 29key
SKU 2	Gun 38key
SKU 3	Gun 47key
SKU 4	Brick 29key SE4850
SKU 5	Brick 38key
SKU 6	Brick 47key
SKU 7	Brick 29key SE4770
EUT supports Radios application	NFC WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 WLAN 11ax HE20/HE40/HE80 Bluetooth BR/EDR/LE
HW Version	EV
SW Version	Android Version 11
FW Version	11-10-12.00-RG-U00-PRD-HEL-04
MFD	20MAR21
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
U cable	Brand Name	Symbol	Model Name	CBL-MC33-USBCHG-01
MC33 1X battery (Inventus)	Brand Name	ZEBRA	Model Number	BT-000338
MC33 2X battery (Inventus)	Brand Name	ZEBRA	Model Number	BT-000337
MC33 2X battery (TWS)	Brand Name	ZEBRA	Model Number	BT-000337A
MC33 7000mA 2X (Inventus)	Brand Name	ZEBRA	Model Number	BT-000375
MC33 Extended Capacity Battery (BT Battery)	Brand Name	ZEBRA	Model Number	BT-000444
Holster for MC3XXX Gun configuration	Brand Name	Zebra	Model Number	SG-MC3021212-01R
Rigid holster for MC3XXX Gun configuration	Brand Name	Zebra	Model Number	SG-MC33-RDHLST-01
Holster for MC3XXXX Brick configuration	Brand Name	Zebra	Model Number	11-69293-01R
Rigid holster for MC3XXX Brick configuration	Brand Name	Zebra	Model Number	SG-MC33-RDHLST-01



## 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: 23.37 dBm / 0.2173 W 802.11n HT20: 23.32 dBm / 0.2148 W 802.11n HT40: 22.95 dBm / 0.1972 W 802.11ac VHT20: 23.27 dBm / 0.2123 W 802.11ac VHT40: 22.90 dBm / 0.1950 W 802.11ac VHT80: 23.44 dBm / 0.2208 W 802.11ax HE20: 23.42 dBm / 0.2198 W 802.11ax HE40: 23.05 dBm / 0.2018 W 802.11ax HE80: 23.50 dBm / 0.2239 W
<b>Maximum Output Power to Antenna &lt;TXBF Mode&gt;</b>	<b>MIMO &lt;Ant. 1+2&gt;</b> 802.11ax HE20: 23.12 dBm / 0.2051 W 802.11ax HE40: 22.98 dBm / 0.1986 W 802.11ax HE80: 20.58 dBm / 0.1143 W
<b>99% Occupied Bandwidth &lt;CDD Mode&gt;</b>	<b>MIMO&lt;Ant. 1&gt;</b> 802.11a: 18.73 MHz 802.11ax HE20: 19.33 MHz 802.11ac HE40: 38.66 MHz 802.11ac HE80: 78.64 MHz <b>MIMO&lt;Ant. 2&gt;</b> 802.11a: 21.78 MHz 802.11ax HE20: 20.23 MHz 802.11ac HE40: 46.55 MHz 802.11ac HE80: 79.00 MHz
<b>99% Occupied Bandwidth &lt;TXBF Mode&gt;</b>	<b>MIMO &lt;Ant. 1&gt;</b> 802.11ax HE20: 19.13 MHz 802.11ac HE40: 38.06 MHz 802.11ac HE80: 78.16 MHz <b>MIMO &lt;Ant. 2&gt;</b> 802.11ax HE20: 19.13 MHz 802.11ac HE40: 38.36 MHz 802.11ac HE80: 78.52 MHz
<b>Antenna Type</b>	<b>Ant. 1</b> : Patch Antenna <b>Ant. 2</b> : Patch Antenna
<b>Antenna Gain</b>	Ant. 1 : 4.10 dBi Ant. 2 : 4.70 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)		
Antenna Function Description	802.11ax: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)		
		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

<b>Test Site</b>	Sporton International Inc. Wensan Laboratory
<b>Test Site Location</b>	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
<b>Test Site No.</b>	<b>Sporton Site No.</b> TH05-HY, 03CH16-HY, CO07-HY

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

FCC designation No.: 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 (Z plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

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

**Note:**

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



## 2.2 Test Mode

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

### 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 + MP3 play + NFC on + MC33 Extended Capacity Battery (BT Battery) + U Cable (Charging from Adapter) for SKU 7
<b>Remark:</b> For Radiated Test Cases, the tests were performed with MC33 1X battery (Inventus), SKU 1 and SKU 3.	

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	23.23	CH 165	23.27	23.27	23.27	23.27	23.27	23.27	23.27
CH 157	5785	23.27								
CH 165	5825	23.37								

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	22.24	CH 157	23.22	23.22	23.22	23.22	23.22	23.22	23.22
CH 157	5785	23.32								
CH 165	5825	22.87								

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	22.87	CH 159	22.85	22.85	22.85	22.85	22.85	22.85	22.85
CH 159	5795	22.95								

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	22.18	CH 157	23.17	23.17	23.17	23.17	23.17	23.17	23.17	
CH 157	5785	23.27									
CH 165	5825	22.83									



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	22.67	CH 159	22.80	22.80	22.80	22.80	22.80	22.80	22.80	22.80	22.80
CH 159	5795	22.90										

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	23.44	CH 155	23.34	23.34	23.34	23.34	23.34	23.34	23.34	23.34	23.34

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	22.34	CH 157	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32	23.32
CH 149	5745	26/0	12.97											
CH 149	5745	52/37	17.07											
CH 149	5745	106/53	20.42											
CH 157	5785	Full	23.42											
CH 157	5785	26/4	15.57											
CH 157	5785	52/38	18.01											
CH 157	5785	106/53	21.22											
CH 157	5785	Full	22.97											
CH 157	5785	26/8	14.67											
CH 157	5785	52/40	17.67											
CH 165	5825	106/54	21.66											



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	23.04	CH 159	22.95	22.95	22.95	22.95	22.95	22.95	22.95	22.95	22.95	22.95	
CH 151	5755	242/61	21.70												
CH 159	5795	Full	23.05												
CH 159	5795	242/62	21.70												

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	23.50	CH 155	23.40	23.40	23.40	23.40	23.40	23.40	23.40	23.40	23.40	23.40	
CH 155	5775	484/65	17.57												
CH 155	5775	484/66	17.20												

<TXBF Mode>

MIMO <Ant. 1+2>

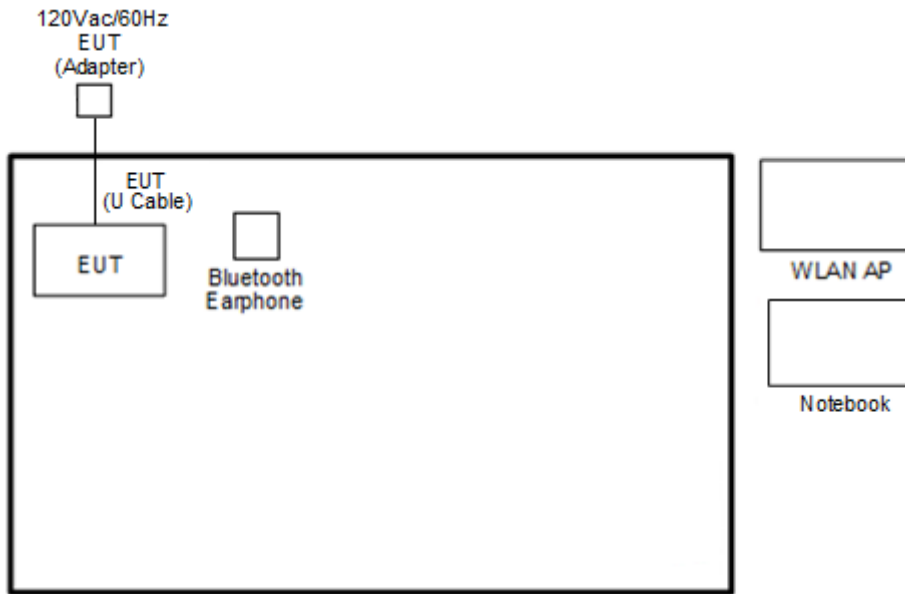
802.11ax HE20 RF Output Power (dBm)															
Power vs. Channel				Power vs Data Rate											
Channel	Frequency (MHz)	RU Config.	MCS Index	Channel	MCS Index										
			MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
CH 149	5745	Full	22.23	CH 157	23.02	23.02	23.02	23.02	23.02	23.02	23.02	23.02	23.02	23.02	
CH 157	5785	Full	23.12												
CH 157	5785	Full	22.83												

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	22.98	CH 151	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	
CH 159	5795	Full	22.64												

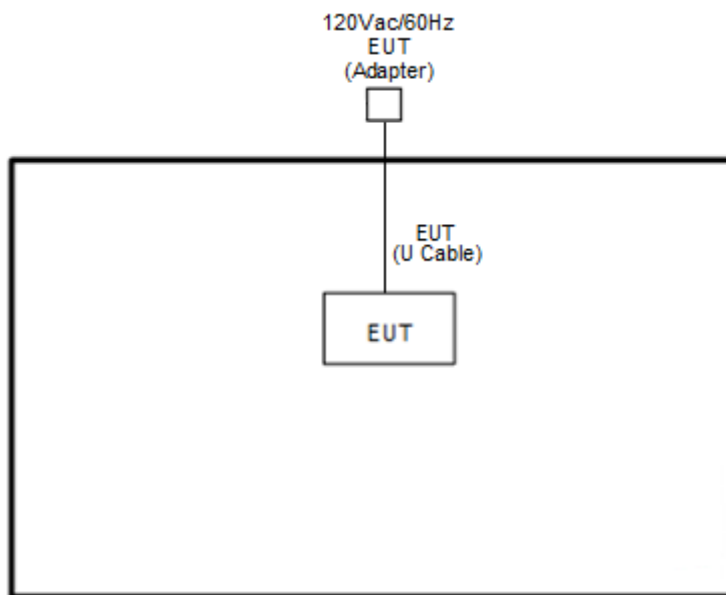
802.11ax HE80 RF Output Power (dBm)															
Power vs. Channel				Power vs Data Rate											
Channel	Frequency (MHz)	RU Config.	MCS Index	Channel	MCS Index										
			MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7	MCS8	MCS9	MCS10	MCS11
CH 155	5775	Full	20.58	CH 155	20.48	20.48	20.48	20.48	20.48	20.43	20.43	20.43	20.43	20.43	20.43

### 2.3 Connection Diagram of Test System

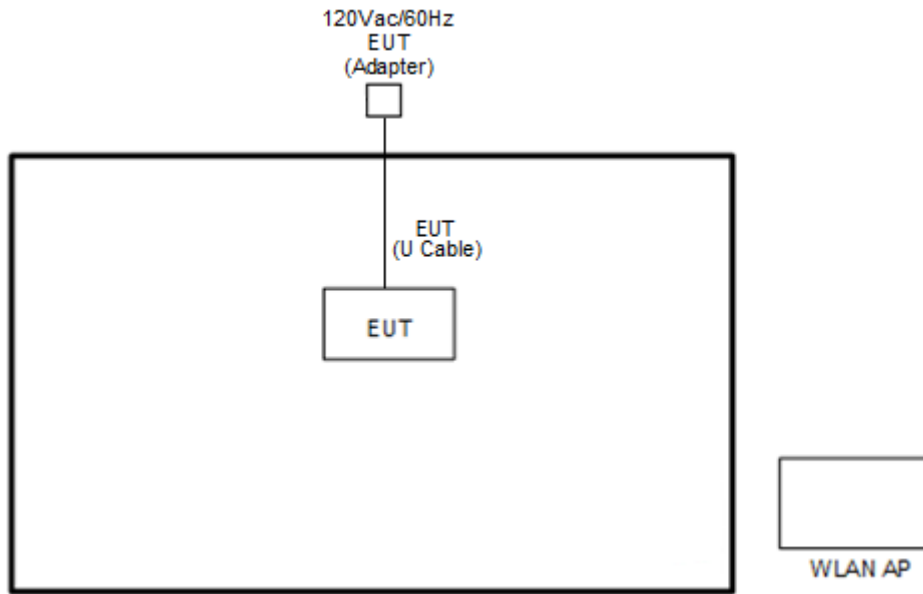
<AC Conducted Emission Mode>



<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	Lenovo	LBH301	FCC DoC	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A



## 2.5 EUT Operation Test Setup

The RF test items, utility “Command V10.0.16299.1087” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

For TXBF mode, the modulation modes and data rates manipulated by the command lines in the engineering program made the EUT link to another EUT by power under the normal operation. The “Command & Magic Iperf V1.0” 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.

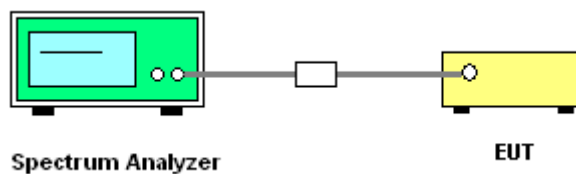
##### 3.1.2 Measuring Instruments

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



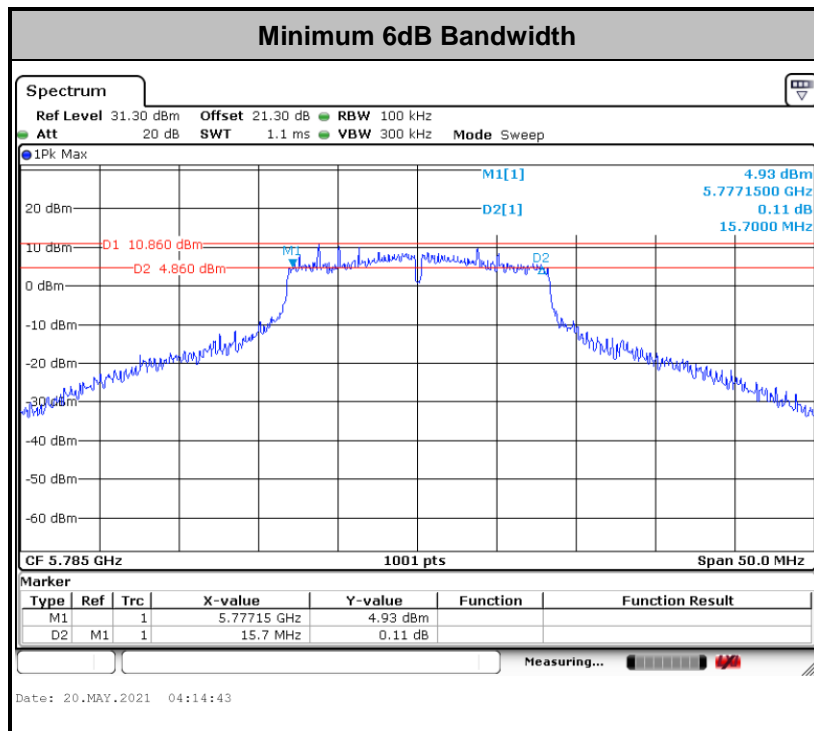


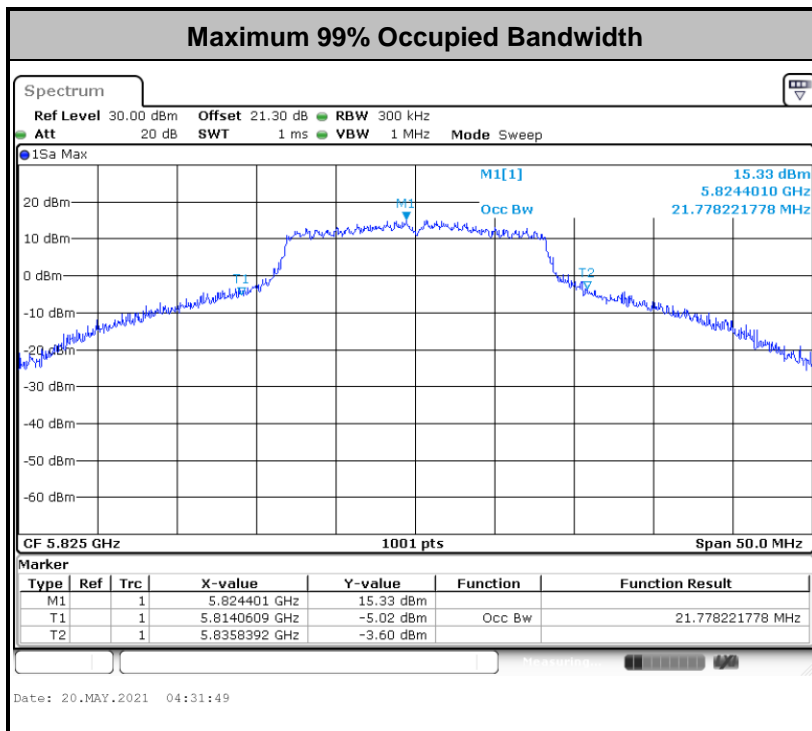
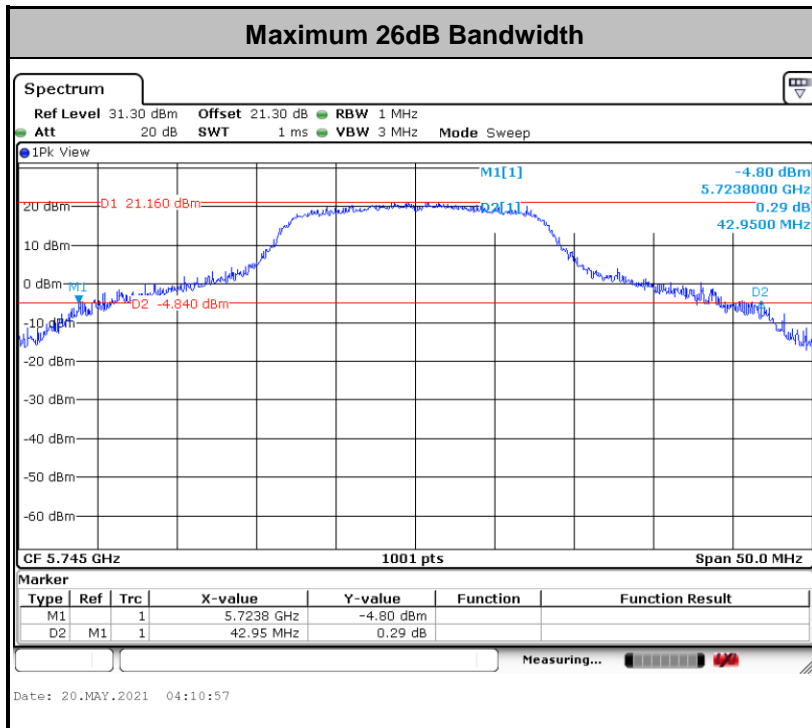
3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Test Engineer :	Hank Hsu	Temperature :	21~25°C
		Relative Humidity :	51~54%

<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	18.13	21.03	39.05	42.95	16.30	16.30	0.5	Pass	
11a	6Mbps	2	157	5785	18.53	20.93	37.65	41.95	15.70	16.30	0.5	Pass	
11a	6Mbps	2	165	5825	18.73	21.78	42.00	41.40	16.30	16.30	0.5	Pass	



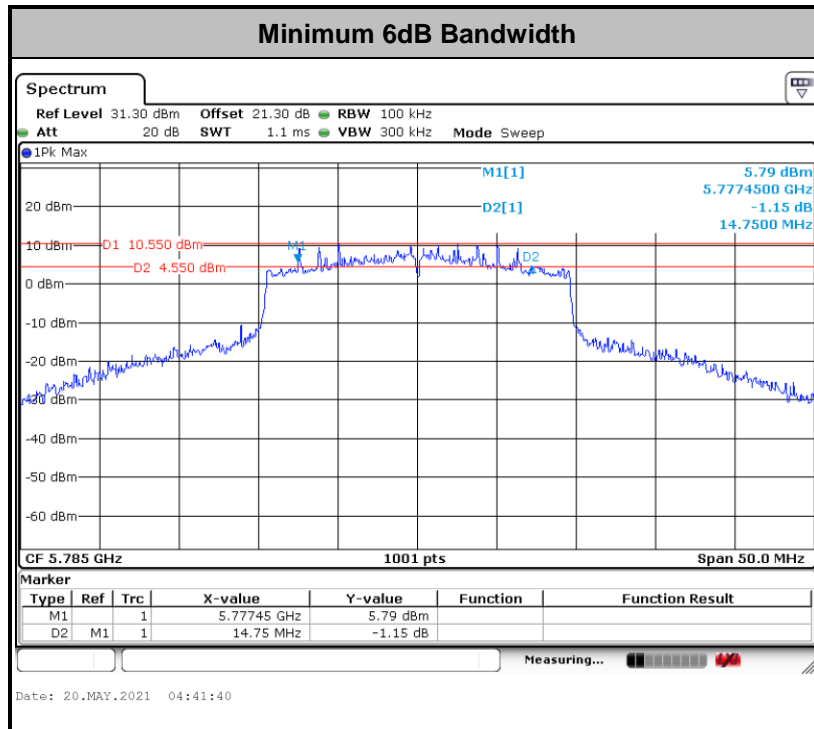


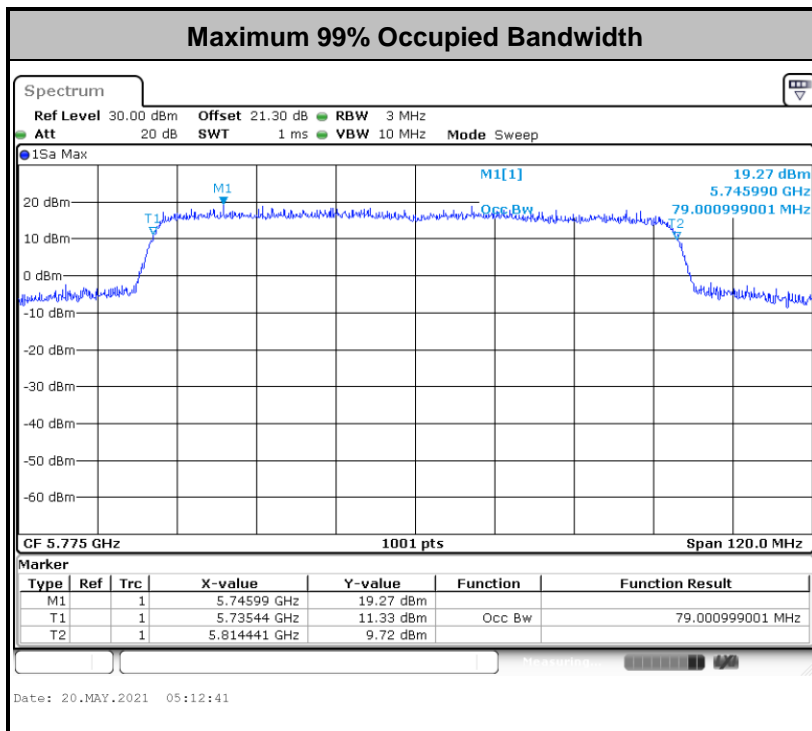
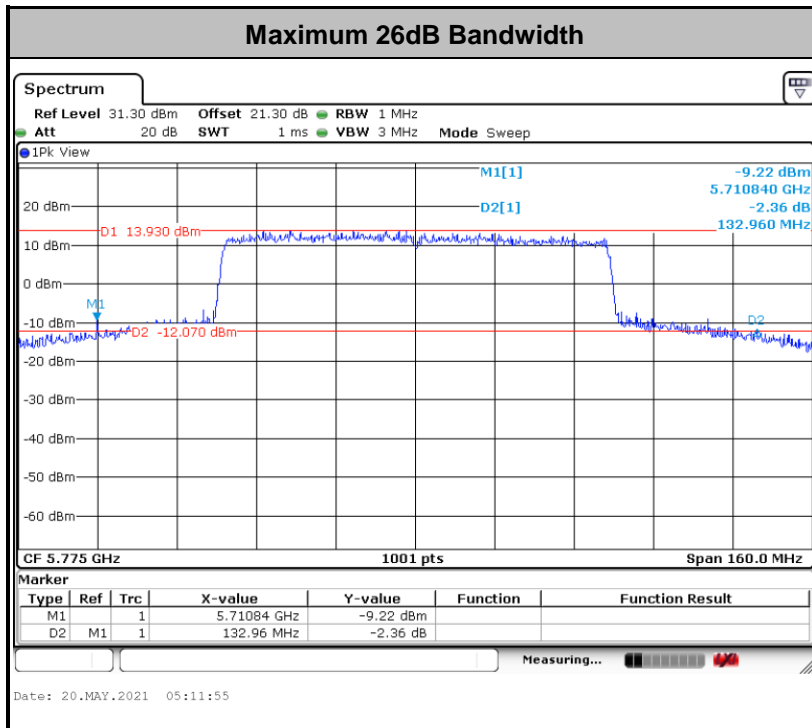
**Note:** The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



<802.11ax 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	18.98	19.08	22.55	29.25	16.15	15.85	0.5	Pass
HE20	MCS0	2	157	5785	Full	19.33	20.23	38.80	43.50	14.75	16.20	0.5	Pass
HE20	MCS0	2	165	5825	Full	19.23	19.73	37.75	42.10	17.85	18.10	0.5	Pass
HE40	MCS0	2	151	5755	Full	38.56	44.66	85.65	94.23	37.62	37.35	0.5	Pass
HE40	MCS0	2	159	5795	Full	38.66	46.55	79.48	90.39	37.53	37.44	0.5	Pass
HE80	MCS0	2	155	5775	Full	78.64	79.00	97.76	132.96	77.76	77.12	0.5	Pass



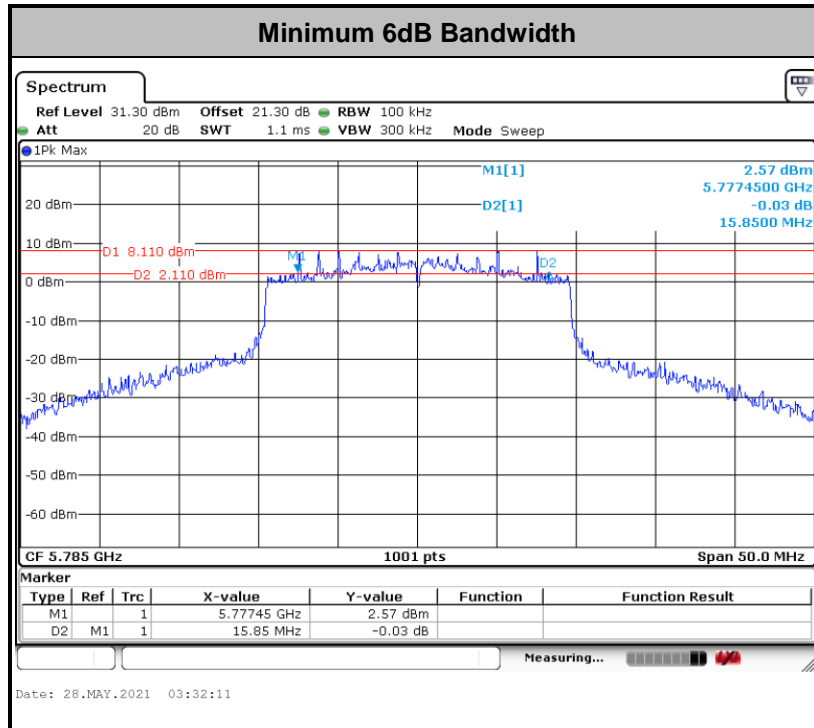


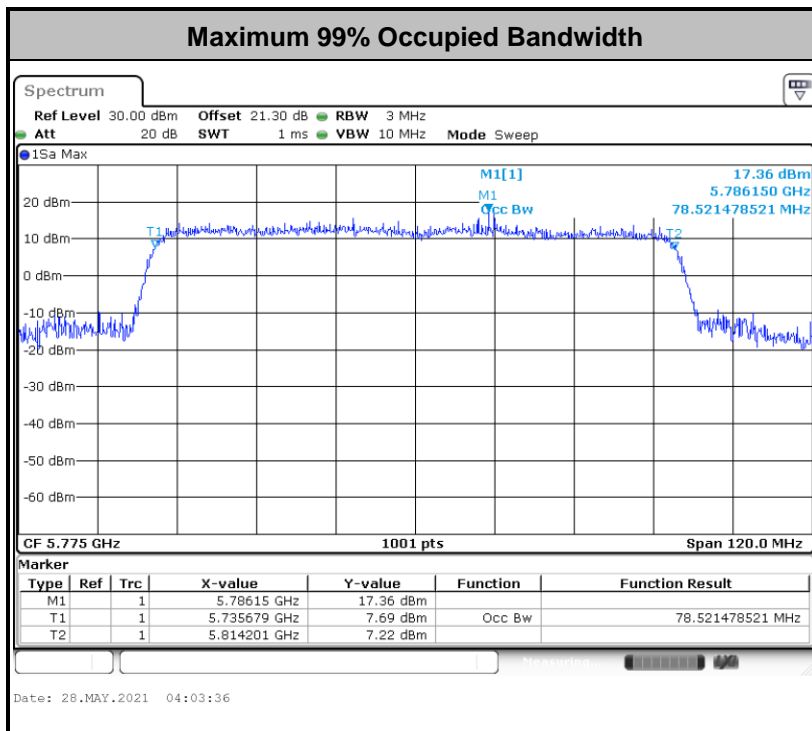
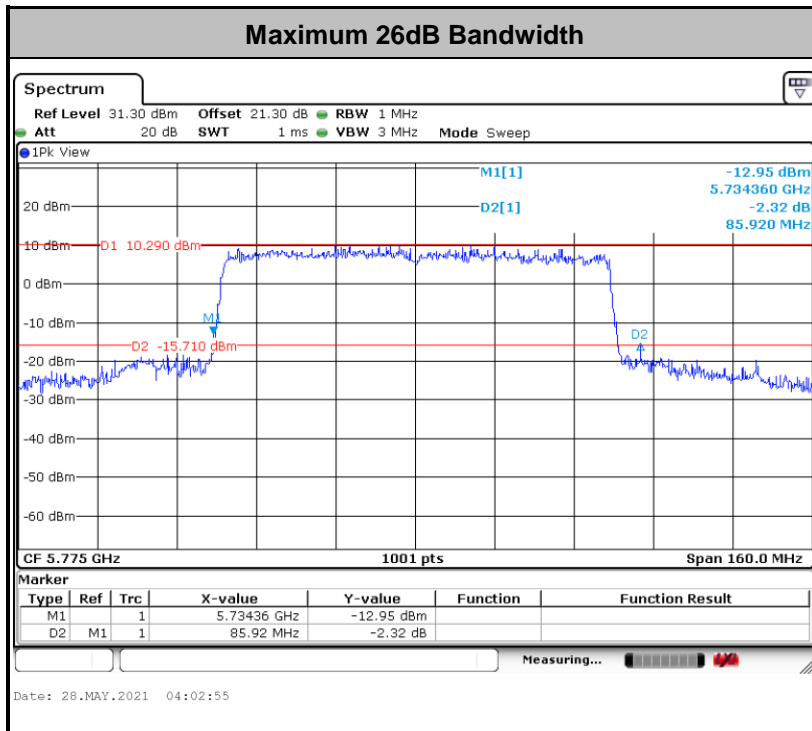
**Note:** The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



<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	18.93	18.98	24.65	27.45	18.50	16.10	0.5	Pass
HE20	MCS0	2	157	5785	Full	19.13	19.13	29.10	36.75	17.70	15.85	0.5	Pass
HE20	MCS0	2	165	5825	Full	19.03	19.08	26.25	36.50	18.30	17.10	0.5	Pass
HE40	MCS0	2	151	5755	Full	38.06	38.36	55.44	78.03	37.71	37.17	0.5	Pass
HE40	MCS0	2	159	5795	Full	37.96	38.26	48.96	68.49	37.44	37.17	0.5	Pass
HE80	MCS0	2	155	5775	Full	78.16	78.52	81.44	85.92	77.28	76.96	0.5	Pass





**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.

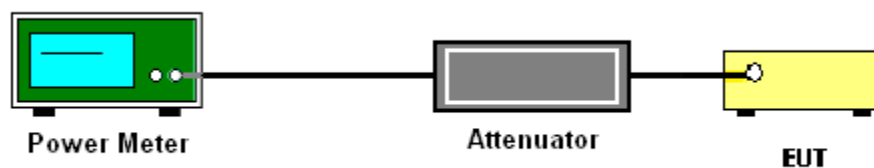
### 3.2.3 Test Procedures

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 :	Hank Hsu	Temperature :	21~25°C
		Relative Humidity :	51~54%

<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	19.80	20.60	23.23	30.00	4.70		Pass	
11a	6Mbps	2	157	5785	19.90	20.60	23.27	30.00	4.70		Pass	
11a	6Mbps	2	165	5825	20.00	20.70	23.37	30.00	4.70		Pass	
HT20	MCS0	2	149	5745	18.70	19.70	22.24	30.00	4.70		Pass	
HT20	MCS0	2	157	5785	20.00	20.60	23.32	30.00	4.70		Pass	
HT20	MCS0	2	165	5825	19.50	20.20	22.87	30.00	4.70		Pass	
HT40	MCS0	2	151	5755	19.50	20.20	22.87	30.00	4.70		Pass	
HT40	MCS0	2	159	5795	19.30	20.50	22.95	30.00	4.70		Pass	
VHT20	MCS0	2	149	5745	18.70	19.60	22.18	30.00	4.70		Pass	
VHT20	MCS0	2	157	5785	19.90	20.60	23.27	30.00	4.70		Pass	
VHT20	MCS0	2	165	5825	19.40	20.20	22.83	30.00	4.70		Pass	
VHT40	MCS0	2	151	5755	19.30	20.00	22.67	30.00	4.70		Pass	
VHT40	MCS0	2	159	5795	19.30	20.40	22.90	30.00	4.70		Pass	
VHT80	MCS0	2	155	5775	19.90	20.90	23.44	30.00	4.70		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	18.80	19.80	22.34	30.00		4.70		Pass
HE20	MCS0	2	149	5745	26/0	9.20	10.60	12.97	30.00		4.70		Pass
HE20	MCS0	2	157	5785	Full	20.10	20.70	23.42	30.00		4.70		Pass
HE20	MCS0	2	165	5825	Full	19.60	20.30	22.97	30.00		4.70		Pass
HE20	MCS0	2	165	5825	26/8	10.90	12.30	14.67	30.00		4.70		Pass
HE40	MCS0	2	151	5755	Full	19.50	20.50	23.04	30.00		4.70		Pass
HE40	MCS0	2	159	5795	Full	19.40	20.60	23.05	30.00		4.70		Pass
HE80	MCS0	2	155	5775	Full	19.90	21.00	23.50	30.00		4.70		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	18.80	19.60	22.23	28.58		7.42		Pass
HE20	MCS0	2	157	5785	Full	19.80	20.40	23.12	28.58		7.42		Pass
HE20	MCS0	2	165	5825	Full	19.40	20.20	22.83	28.58		7.42		Pass
HE40	MCS0	2	151	5755	Full	19.50	20.40	22.98	28.58		7.42		Pass
HE40	MCS0	2	159	5795	Full	19.10	20.10	22.64	28.58		7.42		Pass
HE80	MCS0	2	155	5775	Full	17.10	18.00	20.58	28.58		7.42		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.

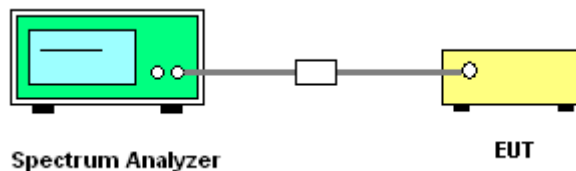
**<TXBF Modes>****# Method SA-3 #**

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

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

**3.3.4 Test Setup**



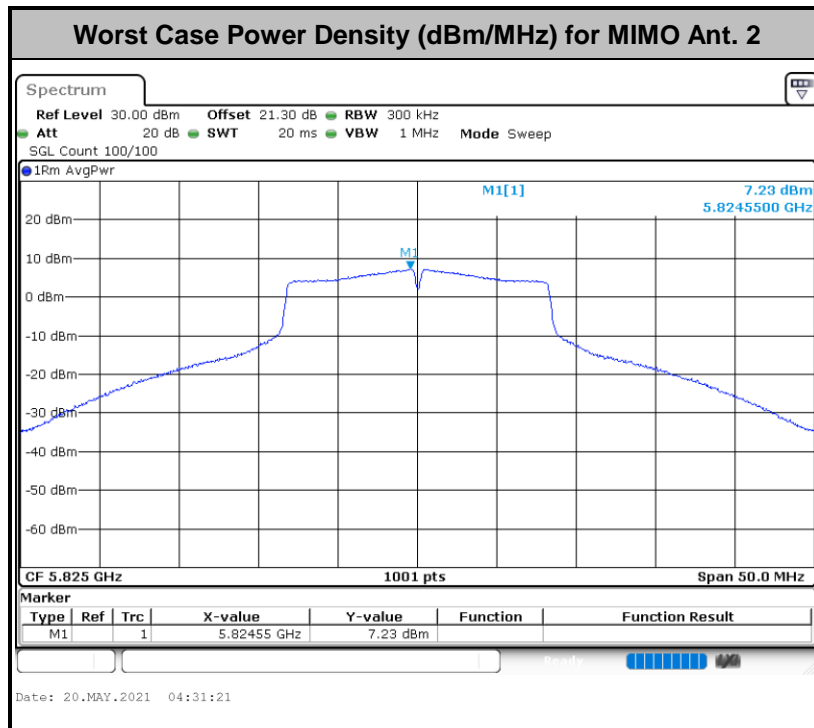
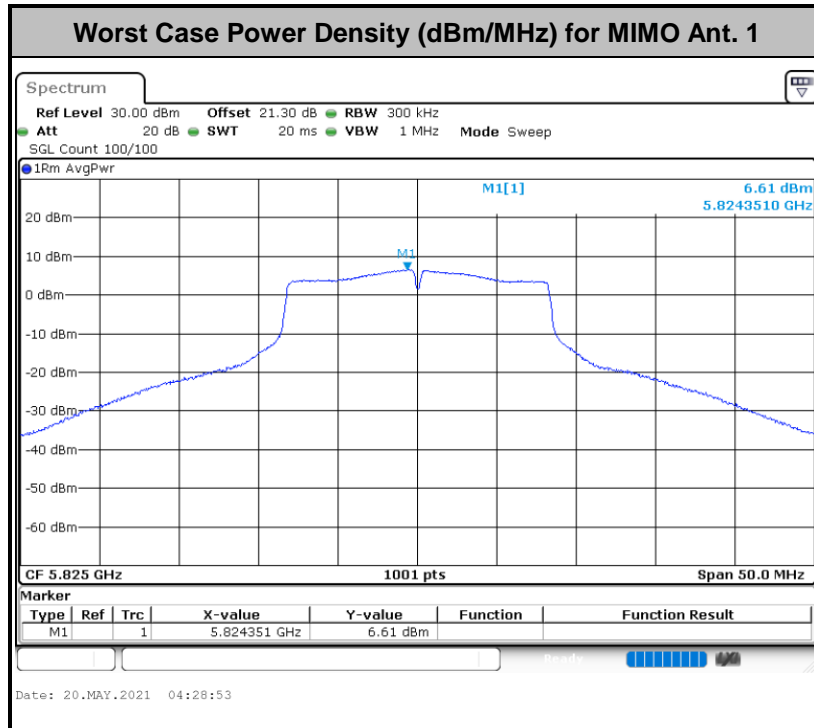
3.3.5 Test Result of Power Spectral Density

Test Engineer :	Hank Hsu	Temperature :	21~25°C
		Relative Humidity :	51~54%

<CDD Mode>

Band IV MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		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	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	0.04	0.04	2.22		5.27	6.15	9.16	28.58		7.42		Pass
11a	6Mbps	2	157	5785	0.04	0.04	2.22		5.23	5.85	8.86	28.58		7.42		Pass
11a	6Mbps	2	165	5825	0.04	0.04	2.22		5.67	6.36	9.37	28.58		7.42		Pass

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

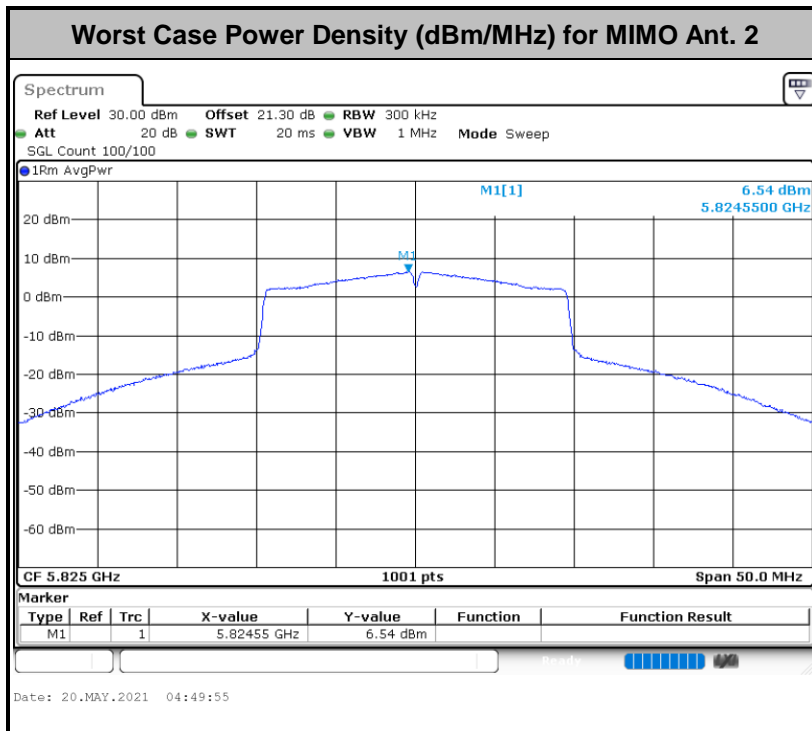
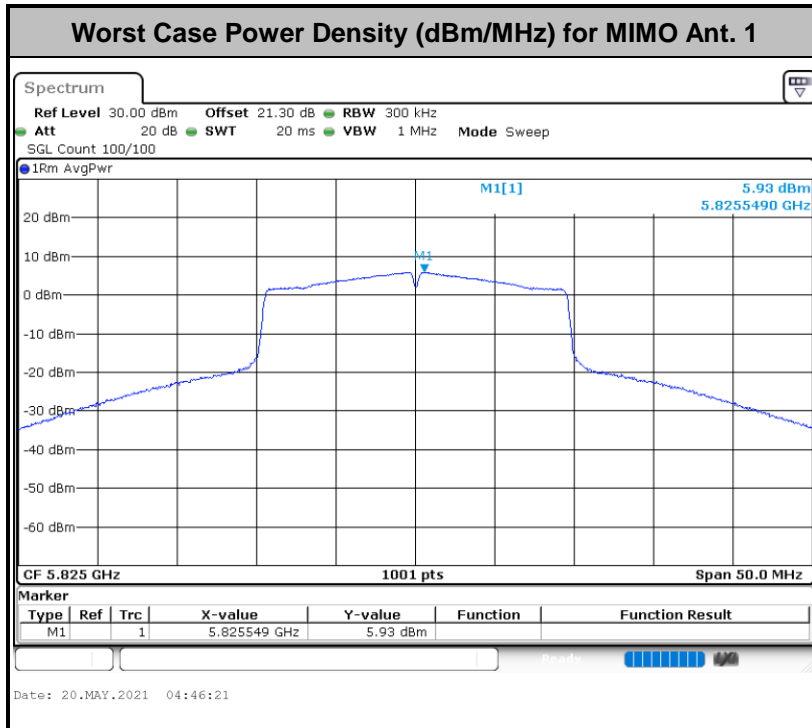




<802.11ax Mode>

Band IV MIMO																	
Mod.	Data Rate	NT X	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		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	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	149	5745	Full	0.11	0.11	2.22	4.68	5.55	8.56	28.58	7.42	Pass			
HE20	MCS0	2	149	5745	26/0	0.11	0.11	2.22	3.19	4.59	7.60	28.58	7.42	Pass			
HE20	MCS0	2	149	5745	52/37	0.11	0.11	2.22	3.89	5.38	8.39	28.58	7.42	Pass			
HE20	MCS0	2	149	5745	106/53	0.11	0.11	2.22	3.33	5.22	8.23	28.58	7.42	Pass			
HE20	MCS0	2	157	5785	Full	0.11	0.11	2.22	4.94	5.59	8.60	28.58	7.42	Pass			
HE20	MCS0	2	157	5785	26/4	0.11	0.11	2.22	4.76	5.38	8.39	28.58	7.42	Pass			
HE20	MCS0	2	157	5785	52/38	0.11	0.11	2.22	4.08	5.44	8.45	28.58	7.42	Pass			
HE20	MCS0	2	157	5785	106/53	0.11	0.11	2.22	4.39	5.41	8.42	28.58	7.42	Pass			
HE20	MCS0	2	165	5825	Full	0.11	0.11	2.22	5.04	5.72	8.73	28.58	7.42	Pass			
HE20	MCS0	2	165	5825	26/8	0.11	0.11	2.22	4.12	5.24	8.25	28.58	7.42	Pass			
HE20	MCS0	2	165	5825	52/40	0.11	0.11	2.22	3.87	5.25	8.26	28.58	7.42	Pass			
HE20	MCS0	2	165	5825	106/54	0.11	0.11	2.22	3.95	5.29	8.30	28.58	7.42	Pass			
HE40	MCS0	2	151	5755	Full	0.13	0.13	2.22	0.13	1.30	4.31	28.58	7.42	Pass			
HE40	MCS0	2	151	5755	242/61	0.13	0.13	2.22	-0.09	1.10	4.11	28.58	7.42	Pass			
HE40	MCS0	2	159	5795	Full	0.13	0.13	2.22	0.15	1.21	4.22	28.58	7.42	Pass			
HE40	MCS0	2	159	5795	242/62	0.13	0.13	2.22	-0.09	1.01	4.02	28.58	7.42	Pass			
HE80	MCS0	2	155	5775	Full	0.09	0.09	2.22	-2.26	-1.08	1.93	28.58	7.42	Pass			
HE80	MCS0	2	155	5775	484/65	0.09	0.09	2.22	-8.32	-6.96	-3.95	28.58	7.42	Pass			
HE80	MCS0	2	155	5775	484/66	0.09	0.09	2.22	-8.26	-7.21	-4.20	28.58	7.42	Pass			

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

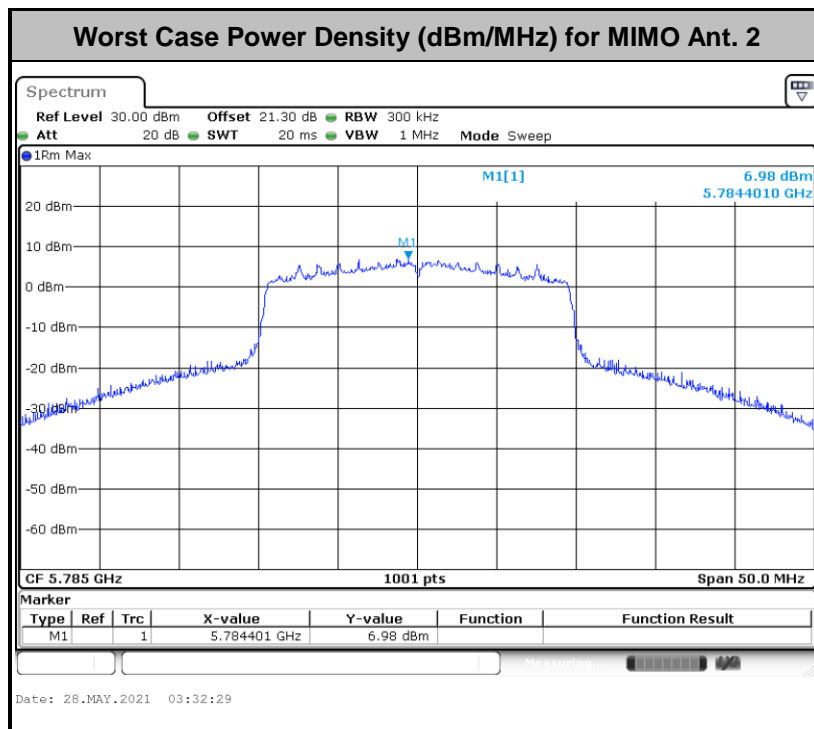
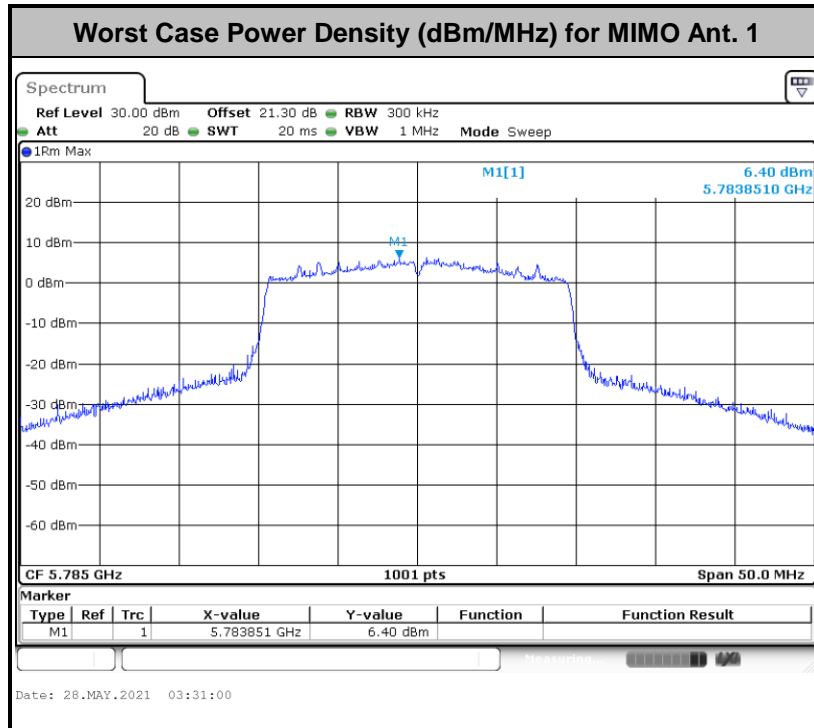






<TXBF Mode>

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		7.45	8.78	11.79	28.58		7.42		Pass
HE20	MCS0	2	157	5785	Full	2.22		8.62	9.20	12.21	28.58		7.42		Pass
HE20	MCS0	2	165	5825	Full	2.22		8.09	9.17	12.18	28.58		7.42		Pass
HE40	MCS0	2	151	5755	Full	2.22		5.01	6.17	9.18	28.58		7.42		Pass
HE40	MCS0	2	159	5795	Full	2.22		4.16	5.60	8.61	28.58		7.42		Pass
HE80	MCS0	2	155	5775	Full	2.22		-0.20	1.01	4.02	28.58		7.42		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.

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

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.

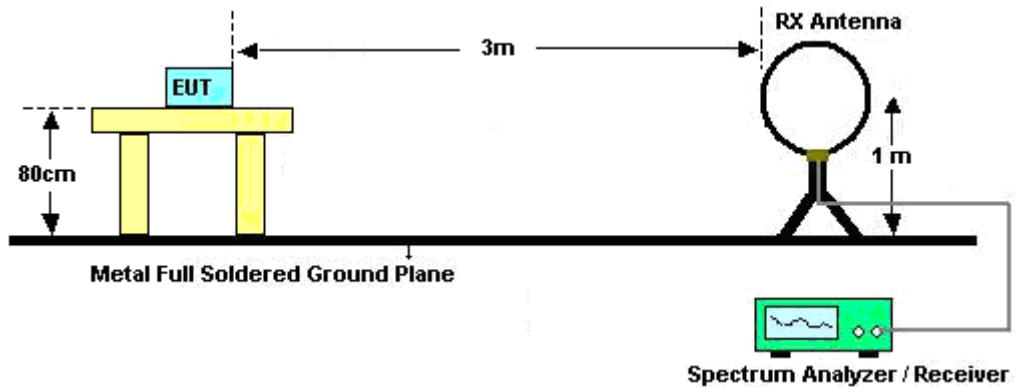
### 3.4.3 Test Procedures

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.

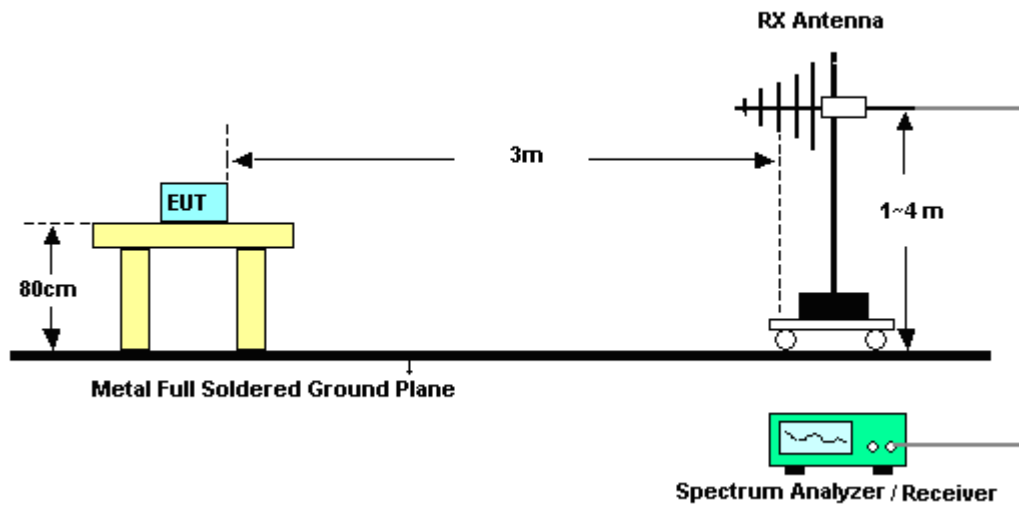
### 3.4.4 Test Setup

For radiated emissions below 30MHz

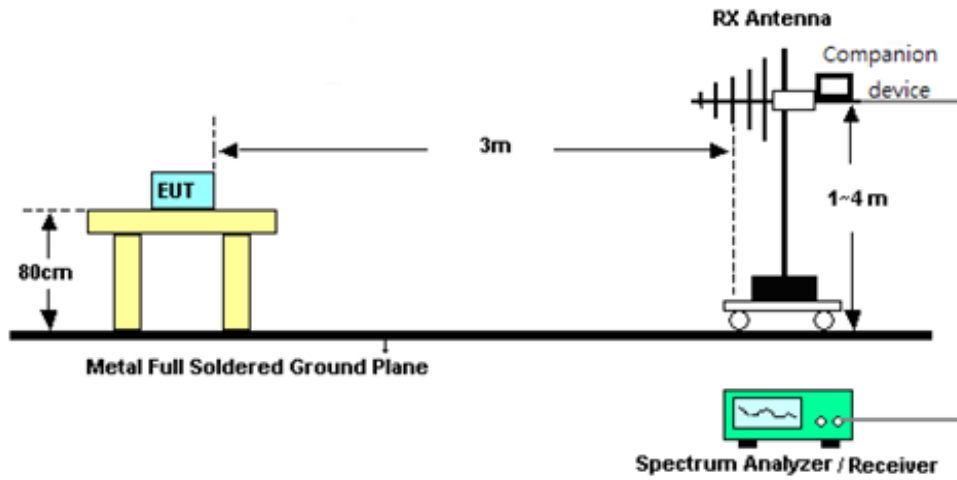


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

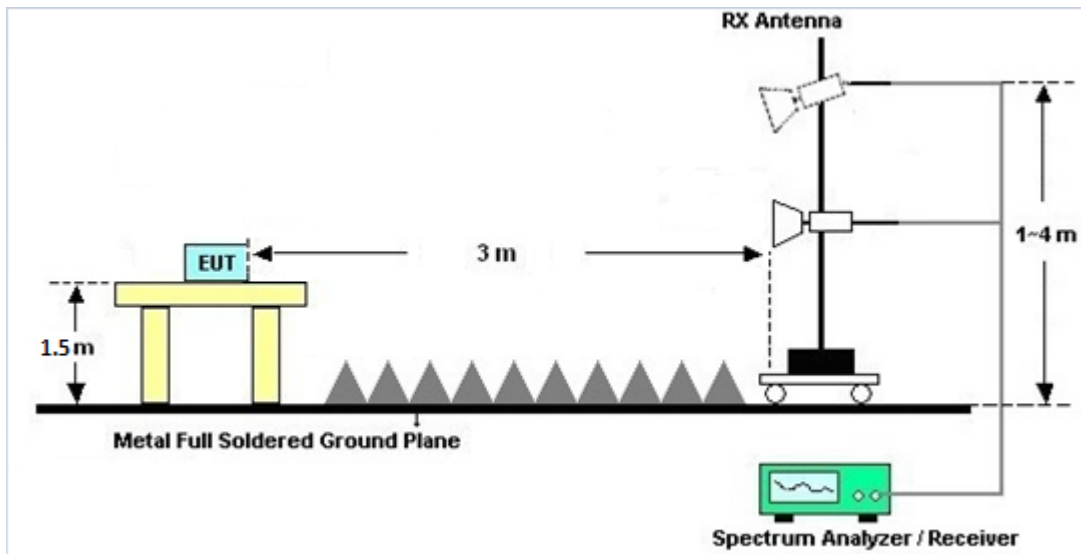


<TXBF Modes>

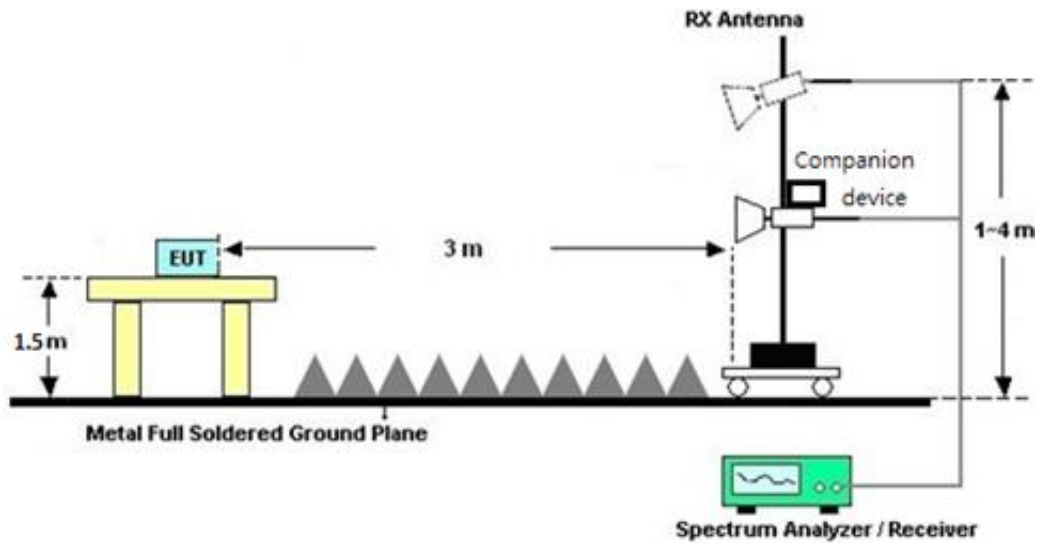


For radiated test above 1GHz

<CDD Mode>



&lt;TXBF Modes&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 adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

### 3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix 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.

<b>&lt;CDD Modes&gt;</b>						
			<b>DG</b>	<b>DG</b>	<b>Power</b>	<b>PSD</b>
			<b>for</b>	<b>for</b>	<b>Limit</b>	<b>Limit</b>
	<b>Ant. 1</b>	<b>Ant. 2</b>	<b>Power</b>	<b>PSD</b>	<b>Reduction</b>	<b>Reduction</b>
	<b>(dBi)</b>	<b>(dBi)</b>	<b>(dBi)</b>	<b>(dBi)</b>	<b>(dB)</b>	<b>(dB)</b>
<b>Band IV</b>	4.10	4.70	4.70	7.42	0.00	1.42

*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>	4.10	4.70	7.42	7.42	1.42	1.42

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

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



## 4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jul. 14, 2020	Apr. 15, 2021~ May 12, 2021	Jul. 13, 2021	Radiation (03CH16-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01 N-06	47020 & 06	30MHz to 1GHz	Oct. 11, 2020	Apr. 15, 2021~ May 12, 2021	Oct. 10, 2021	Radiation (03CH16-HY)
Amplifier	SONOMA	310N	371607	9kHz~1G	Sep. 30, 2020	Apr. 15, 2021~ May 12, 2021	Sep. 29, 2021	Radiation (03CH16-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-152 2	1G~18GHz	Sep. 29, 2020	Apr. 15, 2021~ May 12, 2021	Sep. 28, 2021	Radiation (03CH16-HY)
Amplifier	EMCI	EMC051845S E	980729	1-18GHz	Jul. 10, 2020	Apr. 15, 2021~ May 12, 2021	Jul. 09, 2021	Radiation (03CH16-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz ~40GHz	Dec. 11, 2020	Apr. 15, 2021~ May 12, 2021	Dec. 10, 2021	Radiation (03CH16-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 11, 2020	Apr. 15, 2021~ May 12, 2021	Dec. 10, 2021	Radiation (03CH16-HY)
Preamplifier	Keysight	83017A	MY532702 64	1GHz~26.5GHz	Dec. 10, 2020	Apr. 15, 2021~ May 12, 2021	Dec. 09, 2021	Radiation (03CH16-HY)
EMI Test Receiver	Keysight	N9038A	MY590530 12	3Hz~26.5GHz	Nov. 18, 2020	Apr. 15, 2021~ May 12, 2021	Nov. 17, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11680/ 4PE	NA	Aug. 29, 2020	Apr. 15, 2021~ May 12, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY11688/ 4PE	NA	Aug. 29, 2020	Apr. 15, 2021~ May 12, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	EC-A5-300 -5757	NA	Aug. 29, 2020	Apr. 15, 2021~ May 12, 2021	Aug. 28, 2021	Radiation (03CH16-HY)
Software	Audix	E3 6.2009-8-24	RK-001136	N/A	N/A	Apr. 15, 2021~ May 12, 2021	N/A	Radiation (03CH16-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Apr. 15, 2021~ May 12, 2021	N/A	Radiation (03CH16-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Apr. 15, 2021~ May 12, 2021	N/A	Radiation (03CH16-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Apr. 15, 2021~ May 12, 2021	N/A	Radiation (03CH16-HY)
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 03, 2021	May 28, 2021~ Jun. 08, 2021	Mar. 02, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 16, 2020	May 28, 2021~ Jun. 08, 2021	Dec. 15, 2021	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	May 28, 2021~ Jun. 08, 2021	Jul. 21, 2021	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Jan. 21, 2021	May 28, 2021~ Jun. 08, 2021	Jan. 20, 2022	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2021	May 28, 2021~ Jun. 08, 2021	Mar. 16, 2022	Conducted (TH05-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ACPOWER	AFC-11003G	F3170400 33	N/A	N/A	Apr. 30, 2021	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Apr. 30, 2021	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Nov. 02, 2020	Apr. 30, 2021	Nov. 01, 2021	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz-30MHz	N/A	Apr. 30, 2021	N/A	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Feb. 01, 2021	Apr. 30, 2021	Jan. 31, 2022	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz-3.6GHz	Sep. 11, 2020	Apr. 30, 2021	Sep. 10, 2021	Conduction (CO07-HY)



## 5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.2 dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.5 dB
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

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

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

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



## Appendix A. AC Conducted Emission Test Results

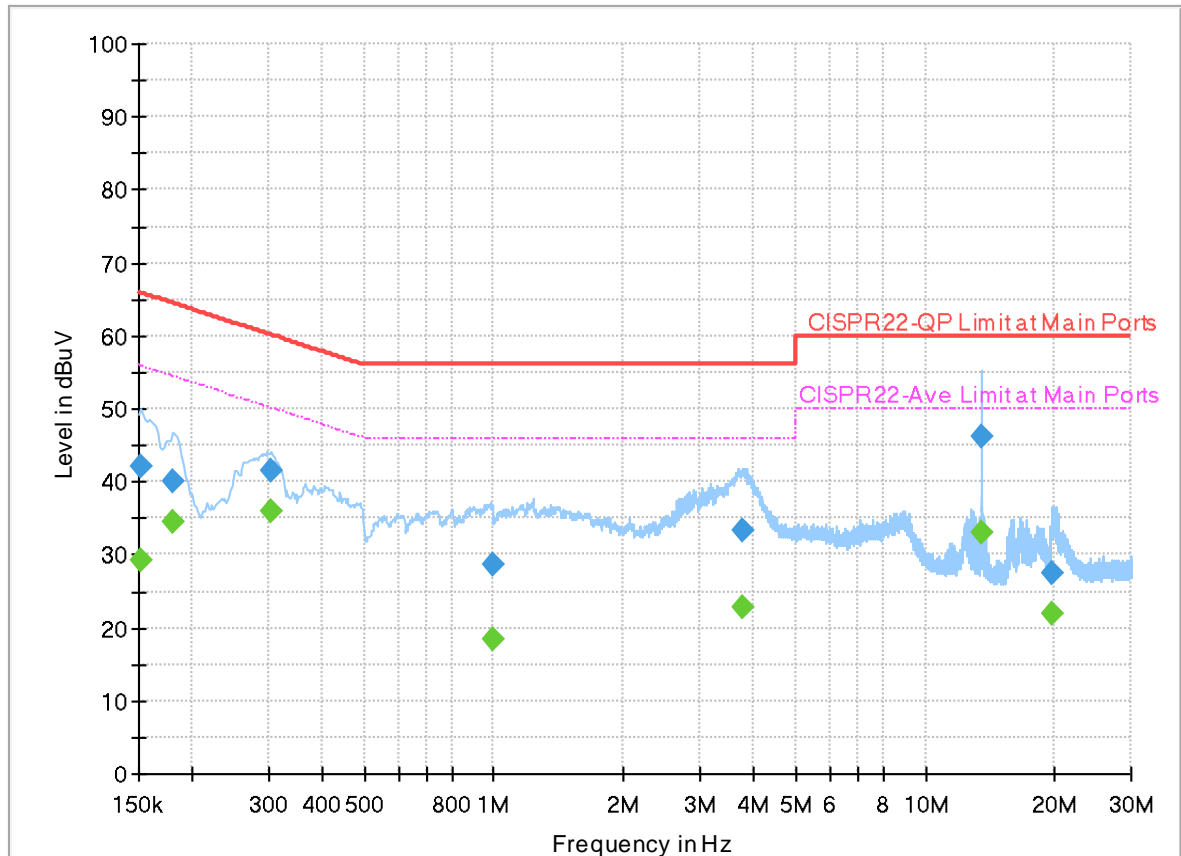
Test Engineer :	Tom Lee	Temperature :	23~26°C
		Relative Humidity :	40~50%



## EUT Information

Report NO : 131009-01  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



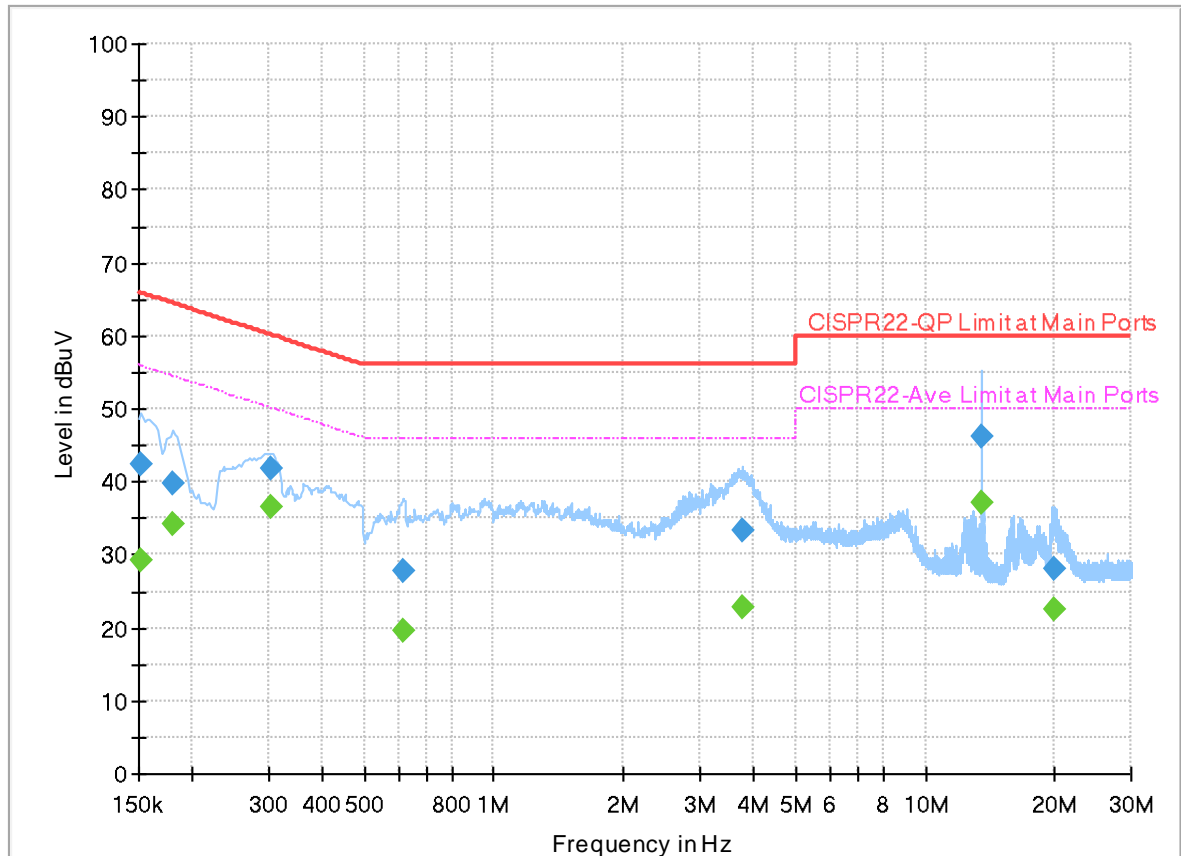
## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	29.16	55.88	26.72	L1	OFF	20.0
0.152250	41.97	---	65.88	23.91	L1	OFF	20.0
0.179250	---	34.61	54.52	19.91	L1	OFF	20.0
0.179250	40.06	---	64.52	24.46	L1	OFF	20.0
0.305250	---	35.94	50.10	14.16	L1	OFF	20.0
0.305250	41.55	---	60.10	18.55	L1	OFF	20.0
0.989250	---	18.55	46.00	27.45	L1	OFF	20.0
0.989250	28.60	---	56.00	27.40	L1	OFF	20.0
3.777000	---	22.93	46.00	23.07	L1	OFF	20.1
3.777000	33.40	---	56.00	22.60	L1	OFF	20.1
13.560000	---	33.14	50.00	16.86	L1	OFF	20.2
13.560000	46.14	---	60.00	13.86	L1	OFF	20.2
19.686750	---	21.89	50.00	28.11	L1	OFF	20.2
19.686750	27.41	---	60.00	32.59	L1	OFF	20.2

## EUT Information

Report NO : 131009-01  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Neutral

Full Spectrum



## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	29.13	55.88	26.75	N	OFF	20.0
0.152250	42.52	---	65.88	23.36	N	OFF	20.0
0.179250	---	34.18	54.52	20.34	N	OFF	20.0
0.179250	39.82	---	64.52	24.70	N	OFF	20.0
0.303000	---	36.44	50.16	13.72	N	OFF	20.0
0.303000	41.83	---	60.16	18.33	N	OFF	20.0
0.618000	---	19.45	46.00	26.55	N	OFF	20.0
0.618000	27.72	---	56.00	28.28	N	OFF	20.0
3.783750	---	22.82	46.00	23.18	N	OFF	20.1
3.783750	33.34	---	56.00	22.66	N	OFF	20.1
13.560000	---	37.12	50.00	12.88	N	OFF	20.2
13.560000	46.34	---	60.00	13.66	N	OFF	20.2
19.873500	---	22.40	50.00	27.60	N	OFF	20.3
19.873500	28.10	---	60.00	31.90	N	OFF	20.3



## Appendix B. Radiated Spurious Emission

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

<CDD Mode>

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

WIFI Ant.	Note	Frequency ( 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		5638.6	61.6	-6.6	68.2	46.09	31.62	13.67	29.78	249	324	P	H	
		5694.8	71.54	-29.83	101.37	55.92	31.69	13.73	29.8	249	324	P	H	
		5719.4	81.15	-29.48	110.63	65.39	31.82	13.75	29.81	249	324	P	H	
		5724.8	89.28	-32.46	121.74	73.5	31.85	13.75	29.82	249	324	P	H	
	*	5745	121.88	-	-	105.96	31.97	13.77	29.82	249	324	P	H	
	*	5745	114.55	-	-	98.63	31.97	13.77	29.82	249	324	A	H	
														H
														H
			5643.2	58.12	-10.08	68.2	42.61	31.61	13.68	29.78	400	75	P	V
			5699.4	65.56	-39.2	104.76	49.94	31.7	13.73	29.81	400	75	P	V
			5719.8	78.54	-32.2	110.74	62.78	31.82	13.75	29.81	400	75	P	V
			5725	84.43	-37.77	122.2	68.65	31.85	13.75	29.82	400	75	P	V
	*		5745	117.8	-	-	101.88	31.97	13.77	29.82	400	75	P	V
	*		5745	110.01	-	-	94.09	31.97	13.77	29.82	400	75	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		5631.6	58.17	-10.03	68.2	42.64	31.64	13.67	29.78	221	309	P	H	
		5699.2	66.6	-38.01	104.61	50.98	31.7	13.73	29.81	221	309	P	H	
		5718.8	71.11	-39.35	110.46	55.36	31.81	13.75	29.81	221	309	P	H	
		5721.8	71.58	-43.32	114.9	55.81	31.83	13.75	29.81	221	309	P	H	
	*	5785	121.84	-	-	105.87	32	13.81	29.84	221	309	P	H	
	*	5785	114.07	-	-	98.1	32	13.81	29.84	221	309	A	H	
		5850	65.69	-56.51	122.2	49.64	32.1	13.81	29.86	221	309	P	H	
		5855	63.85	-46.95	110.8	47.79	32.11	13.81	29.86	221	309	P	H	
		5878.6	58.53	-44	102.53	42.43	32.16	13.81	29.87	221	309	P	H	
		5941.8	56.82	-11.38	68.2	40.63	32.28	13.81	29.9	221	309	P	H	
														H
														H
			5620.4	55.62	-12.58	68.2	40.08	31.66	13.66	29.78	376	94	P	V
			5680.8	55.54	-35.49	91.03	39.97	31.66	13.71	29.8	376	94	P	V
			5718.2	60.92	-49.38	110.3	45.17	31.81	13.75	29.81	376	94	P	V
			5722.6	61.87	-54.86	116.73	46.09	31.84	13.75	29.81	376	94	P	V
	*		5785	115.53	-	-	99.56	32	13.81	29.84	376	94	P	V
	*		5785	108.02	-	-	92.05	32	13.81	29.84	376	94	A	V
			5850.4	58.14	-63.15	121.29	42.09	32.1	13.81	29.86	376	94	P	V
			5855.6	57.63	-53	110.63	41.58	32.11	13.81	29.87	376	94	P	V
		5878.6	55.59	-46.94	102.53	39.49	32.16	13.81	29.87	376	94	P	V	
		5941.4	55.46	-12.74	68.2	39.27	32.28	13.81	29.9	376	94	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	121.99	-	-	105.97	32.05	13.82	29.85	281	308	P	H	
	*	5825	114.26	-	-	98.24	32.05	13.82	29.85	281	308	A	H	
		5850	79.1	-43.1	122.2	63.05	32.1	13.81	29.86	281	308	P	H	
		5858.4	76.51	-33.34	109.85	60.45	32.12	13.81	29.87	281	308	P	H	
		5877.6	65.77	-37.5	103.27	49.67	32.16	13.81	29.87	281	308	P	H	
		5932.2	57.44	-10.76	68.2	41.26	32.26	13.81	29.89	281	308	P	H	
														H
														H
	*	5825	117.26	-	-	101.24	32.05	13.82	29.85	388	75	P	V	
	*	5825	109.06	-	-	93.04	32.05	13.82	29.85	388	75	A	V	
		5850	74.99	-47.21	122.2	58.94	32.1	13.81	29.86	388	75	P	V	
		5857	71.92	-38.32	110.24	55.87	32.11	13.81	29.87	388	75	P	V	
		5876.2	63.5	-40.81	104.31	47.41	32.15	13.81	29.87	388	75	P	V	
		5945.8	55.73	-12.47	68.2	39.53	32.29	13.81	29.9	388	75	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	49.82	-24.18	74	45.31	39.91	20.11	55.51	100	0	P	H	
		17235	52.71	-15.49	68.2	43.38	40.9	25.16	56.73	100	0	P	H	
													H	
													H	
			11490	49.6	-24.4	74	45.09	39.91	20.11	55.51	100	0	P	V
			17235	54.39	-13.81	68.2	45.06	40.9	25.16	56.73	100	0	P	V
														V
802.11a CH 157 5785MHz		11570	48.77	-25.23	74	44.27	39.76	20.18	55.44	100	0	P	H	
		17355	52.01	-16.19	68.2	42.1	41.6	25.21	56.9	100	0	P	H	
													H	
													H	
			11570	48.58	-25.42	74	44.08	39.76	20.18	55.44	100	0	P	V
			17355	53.2	-15	68.2	43.29	41.6	25.21	56.9	100	0	P	V
														V
802.11a CH 165 5825MHz		11650	48.71	-25.29	74	44.31	39.55	20.23	55.38	100	0	P	H	
		17475	51.37	-16.83	68.2	40.73	42.45	25.25	57.06	100	0	P	H	
													H	
													H	
			11650	48.48	-25.52	74	44.08	39.55	20.23	55.38	100	0	P	V
			17475	51.84	-16.36	68.2	41.2	42.45	25.25	57.06	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\_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		5645.8	63.53	-4.67	68.2	48.03	31.61	13.68	29.79	250	326	P	H	
		5695.4	71.44	-30.37	101.81	55.82	31.69	13.73	29.8	250	326	P	H	
		5719	85.89	-24.63	110.52	70.14	31.81	13.75	29.81	250	326	P	H	
		5724.2	90.93	-29.45	120.38	75.15	31.85	13.75	29.82	250	326	P	H	
	*	5745	122.83	-	-	106.91	31.97	13.77	29.82	250	326	P	H	
	*	5745	113.73	-	-	97.81	31.97	13.77	29.82	250	326	A	H	
														H
														H
			5615.2	60.05	-8.15	68.2	44.5	31.67	13.65	29.77	400	75	P	V
			5698.4	67.1	-36.92	104.02	51.48	31.7	13.73	29.81	400	75	P	V
			5720	78.71	-32.09	110.8	62.95	31.82	13.75	29.81	400	75	P	V
			5723	86.59	-31.05	117.64	70.81	31.84	13.75	29.81	400	75	P	V
	*		5745	119.06	-	-	103.14	31.97	13.77	29.82	400	75	P	V
	*		5745	109.33	-	-	93.41	31.97	13.77	29.82	400	75	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 )
		5646.4	59.89	-8.31	68.2	44.39	31.61	13.68	29.79	225	310	P	H
		5699	67.78	-36.68	104.46	52.16	31.7	13.73	29.81	225	310	P	H
		5718.8	71.23	-39.23	110.46	55.48	31.81	13.75	29.81	225	310	P	H
		5723.8	72.2	-47.26	119.46	56.43	31.84	13.75	29.82	225	310	P	H
	*	5785	123.56	-	-	107.59	32	13.81	29.84	225	310	P	H
	*	5785	113.94	-	-	97.97	32	13.81	29.84	225	310	A	H
		5853	63.85	-51.51	115.36	47.79	32.11	13.81	29.86	225	310	P	H
		5858.2	62.85	-47.05	109.9	46.79	32.12	13.81	29.87	225	310	P	H
		5877.4	59.91	-43.51	103.42	43.82	32.15	13.81	29.87	225	310	P	H
		5943.4	58.31	-9.89	68.2	42.11	32.29	13.81	29.9	225	310	P	H
<b>802.11ax</b>													H
<b>HE20 Full</b>													H
<b>CH 157</b>		5645.2	56.49	-11.71	68.2	40.99	31.61	13.68	29.79	397	95	P	V
<b>5785MHz</b>		5664.2	56.95	-21.79	78.74	41.41	31.63	13.7	29.79	397	95	P	V
		5719.2	62.14	-48.44	110.58	46.38	31.82	13.75	29.81	397	95	P	V
		5722.8	63.48	-53.7	117.18	47.7	31.84	13.75	29.81	397	95	P	V
	*	5785	116.48	-	-	100.51	32	13.81	29.84	397	95	P	V
	*	5785	107.57	-	-	91.6	32	13.81	29.84	397	95	A	V
		5850.4	59.45	-61.84	121.29	43.4	32.1	13.81	29.86	397	95	P	V
		5865.8	56.68	-51.09	107.77	40.61	32.13	13.81	29.87	397	95	P	V
		5877.8	56.34	-46.78	103.12	40.24	32.16	13.81	29.87	397	95	P	V
		5926	55.42	-12.78	68.2	39.25	32.25	13.81	29.89	397	95	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	117.82	-	-	101.8	32.05	13.82	29.85	228	308	P	H	
	*	5825	111.61	-	-	95.59	32.05	13.82	29.85	228	308	A	H	
		5850	80.5	-41.7	122.2	64.45	32.1	13.81	29.86	228	308	P	H	
		5855	78.42	-32.38	110.8	62.36	32.11	13.81	29.86	228	308	P	H	
		5875	69.14	-36.06	105.2	53.05	32.15	13.81	29.87	228	308	P	H	
		5925.2	58.33	-9.87	68.2	42.16	32.25	13.81	29.89	228	308	P	H	
														H
														H
	*	5825	116.48	-	-	100.46	32.05	13.82	29.85	389	80	P	V	
	*	5825	106.97	-	-	90.95	32.05	13.82	29.85	389	80	A	V	
		5850	73.74	-48.46	122.2	57.69	32.1	13.81	29.86	389	80	P	V	
		5856	71.33	-39.19	110.52	55.28	32.11	13.81	29.87	389	80	P	V	
		5876	64.28	-40.18	104.46	48.19	32.15	13.81	29.87	389	80	P	V	
		5930.4	55.92	-12.28	68.2	39.74	32.26	13.81	29.89	389	80	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 802.11ax 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	48.96	-25.04	74	44.45	39.91	20.11	55.51	100	0	P	H
		17235	50.89	-17.31	68.2	41.56	40.9	25.16	56.73	100	0	P	H
													H
													H
		11490	49.85	-24.15	74	45.34	39.91	20.11	55.51	100	0	P	V
		17235	53.46	-14.74	68.2	44.13	40.9	25.16	56.73	100	0	P	V
													V
802.11ax HE20 Full CH 157 5785MHz		11570	48.28	-25.72	74	43.78	39.76	20.18	55.44	100	0	P	H
		17355	51.59	-16.61	68.2	41.68	41.6	25.21	56.9	100	0	P	H
													H
													H
		11570	48.55	-25.45	74	44.05	39.76	20.18	55.44	100	0	P	V
		17355	52.33	-15.87	68.2	42.42	41.6	25.21	56.9	100	0	P	V
													V
802.11ax HE20 Full CH 165 5825MHz		11650	48.64	-25.36	74	44.24	39.55	20.23	55.38	100	0	P	H
		17475	50.37	-17.83	68.2	39.73	42.45	25.25	57.06	100	0	P	H
													H
													H
		11650	48.45	-25.55	74	44.05	39.55	20.23	55.38	100	0	P	V
		17475	51.65	-16.55	68.2	41.01	42.45	25.25	57.06	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		5609.4	66.82	-1.38	68.2	51.26	31.68	13.65	29.77	251	319	P	H	
		5699.8	75.61	-29.44	105.05	59.99	31.7	13.73	29.81	251	319	P	H	
		5713.8	87.07	-22	109.07	71.36	31.78	13.74	29.81	251	319	P	H	
		5725	97.79	-24.41	122.2	82.01	31.85	13.75	29.82	251	319	P	H	
	*	5745	125.52	-	-	109.6	31.97	13.77	29.82	251	319	P	H	
	*	5745	117.48	-	-	101.56	31.97	13.77	29.82	251	319	A	H	
														H
														H
			5648.8	63.86	-4.34	68.2	48.37	31.6	13.68	29.79	396	286	P	V
			5699.2	68.59	-36.02	104.61	52.97	31.7	13.73	29.81	396	286	P	V
			5716.6	88.17	-21.68	109.85	72.44	31.8	13.74	29.81	396	286	P	V
			5723	91.38	-26.26	117.64	75.6	31.84	13.75	29.81	396	286	P	V
		*	5745	121.94	-	-	106.02	31.97	13.77	29.82	396	286	P	V
		*	5745	113.91	-	-	97.99	31.97	13.77	29.82	396	286	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	126.64	-	-	110.62	32.05	13.82	29.85	248	320	P	H	
	*	5825	118.31	-	-	102.29	32.05	13.82	29.85	248	320	A	H	
		5851.2	96.33	-23.13	119.46	80.28	32.1	13.81	29.86	248	320	P	H	
		5855	91.66	-19.14	110.8	75.6	32.11	13.81	29.86	248	320	P	H	
		5877.4	85.07	-18.35	103.42	68.98	32.15	13.81	29.87	248	320	P	H	
		5930.6	64.1	-4.1	68.2	47.92	32.26	13.81	29.89	248	320	P	H	
														H
														H
	*	5825	122.81	-	-	106.79	32.05	13.82	29.85	399	290	P	V	
	*	5825	114.52	-	-	98.5	32.05	13.82	29.85	399	290	A	V	
		5850.4	89.72	-31.57	121.29	73.67	32.1	13.81	29.86	399	290	P	V	
		5855	85.27	-25.53	110.8	69.21	32.11	13.81	29.86	399	290	P	V	
		5887.4	70.98	-25.01	95.99	54.88	32.17	13.81	29.88	399	290	P	V	
		5933.8	59.28	-8.92	68.2	43.09	32.27	13.81	29.89	399	290	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	48.68	-25.32	74	44.17	39.91	20.11	55.51	100	0	P	H
		17235	54.93	-13.27	68.2	45.6	40.9	25.16	56.73	100	0	P	H
													H
													H
		11490	48.9	-25.1	74	44.39	39.91	20.11	55.51	100	0	P	V
		17235	55.93	-12.27	68.2	46.6	40.9	25.16	56.73	100	0	P	V
													V
													V
802.11ax HE20 Partial 106/54 CH 165 5825MHz		11650	49.61	-24.39	74	45.21	39.55	20.23	55.38	100	0	P	H
		17475	52.51	-15.69	68.2	41.87	42.45	25.25	57.06	100	0	P	H
													H
													H
		11650	49.38	-24.62	74	44.98	39.55	20.23	55.38	100	0	P	V
		17475	53.86	-14.34	68.2	43.22	42.45	25.25	57.06	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 HE40\_Full (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5648	66.24	-1.96	68.2	50.75	31.6	13.68	29.79	249	325	P	H
		5698.6	77.92	-26.25	104.17	62.3	31.7	13.73	29.81	249	325	P	H
		5718.6	93.35	-17.06	110.41	77.6	31.81	13.75	29.81	249	325	P	H
		5723.2	94.08	-24.02	118.1	78.3	31.84	13.75	29.81	249	325	P	H
	*	5755	117.82	-	-	101.87	32	13.78	29.83	249	325	P	H
	*	5755	108.11	-	-	92.16	32	13.78	29.83	249	325	A	H
		5851.2	64.57	-54.89	119.46	48.52	32.1	13.81	29.86	249	325	P	H
		5858	64.29	-45.67	109.96	48.23	32.12	13.81	29.87	249	325	P	H
		5879.4	62.49	-39.44	101.93	46.39	32.16	13.81	29.87	249	325	P	H
		5941.2	60.87	-7.33	68.2	44.68	32.28	13.81	29.9	249	325	P	H
<b>802.11ax</b>													H
<b>HE40 Full</b>													H
<b>CH 151</b>		5648.2	60.66	-7.54	68.2	45.17	31.6	13.68	29.79	400	262	P	V
<b>5755MHz</b>		5694.6	71.78	-29.44	101.22	56.16	31.69	13.73	29.8	400	262	P	V
		5718.6	85.88	-24.53	110.41	70.13	31.81	13.75	29.81	400	262	P	V
		5722.8	87.45	-29.73	117.18	71.67	31.84	13.75	29.81	400	262	P	V
	*	5755	113.62	-	-	97.67	32	13.78	29.83	400	262	P	V
	*	5755	103.06	-	-	87.11	32	13.78	29.83	400	262	A	V
		5851	58.78	-61.14	119.92	42.73	32.1	13.81	29.86	400	262	P	V
		5861	56.29	-52.83	109.12	40.23	32.12	13.81	29.87	400	262	P	V
		5920.2	56.28	-15.46	71.74	40.12	32.24	13.81	29.89	400	262	P	V
		5949.4	56.28	-11.92	68.2	40.07	32.3	13.81	29.9	400	262	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 )
		5628.6	60.3	-7.9	68.2	44.77	31.64	13.67	29.78	245	320	P	H
		5699.8	69.28	-35.77	105.05	53.66	31.7	13.73	29.81	245	320	P	H
		5718.6	73.29	-37.12	110.41	57.54	31.81	13.75	29.81	245	320	P	H
		5721.6	73.25	-41.2	114.45	57.48	31.83	13.75	29.81	245	320	P	H
	*	5795	119.18	-	-	103.2	32	13.82	29.84	245	320	P	H
	*	5795	109.4	-	-	93.42	32	13.82	29.84	245	320	A	H
		5851	79.04	-40.88	119.92	62.99	32.1	13.81	29.86	245	320	P	H
		5856	74.39	-36.13	110.52	58.34	32.11	13.81	29.87	245	320	P	H
		5879	70.23	-32	102.23	54.13	32.16	13.81	29.87	245	320	P	H
		5926.4	58.58	-9.62	68.2	42.41	32.25	13.81	29.89	245	320	P	H
802.11ax													H
HE40 Full													H
CH 159		5649.8	57.58	-10.62	68.2	42.09	31.6	13.68	29.79	400	285	P	V
5795MHz		5695.6	65.42	-36.54	101.96	49.8	31.69	13.73	29.8	400	285	P	V
		5720	69.37	-41.43	110.8	53.61	31.82	13.75	29.81	400	285	P	V
		5720	69.37	-41.43	110.8	53.61	31.82	13.75	29.81	400	285	P	V
	*	5795	115.56	-	-	99.58	32	13.82	29.84	400	285	P	V
	*	5795	105.76	-	-	89.78	32	13.82	29.84	400	285	A	V
		5851	73.81	-46.11	119.92	57.76	32.1	13.81	29.86	400	285	P	V
		5857.4	70.07	-40.06	110.13	54.02	32.11	13.81	29.87	400	285	P	V
		5875.6	65.19	-39.56	104.75	49.1	32.15	13.81	29.87	400	285	P	V
		5925.2	57.64	-10.56	68.2	41.47	32.25	13.81	29.89	400	285	P	V
		5649.8	57.58	-10.62	68.2	42.09	31.6	13.68	29.79	400	285	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 (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	48.41	-25.59	74	43.89	39.88	20.13	55.49	100	0	P	H	
		17265	50.51	-17.69	68.2	41.12	40.99	25.17	56.77	100	0	P	H	
													H	
													H	
			11510	48.8	-25.2	74	44.28	39.88	20.13	55.49	100	0	P	V
			17265	51.36	-16.84	68.2	41.97	40.99	25.17	56.77	100	0	P	V
														V
802.11ax HE40 Full CH 159 5795MHz		11590	48.99	-25.01	74	44.51	39.72	20.19	55.43	100	0	P	H	
		17385	51.24	-16.96	68.2	41.1	41.86	25.22	56.94	100	0	P	H	
													H	
													H	
			11590	48.73	-25.27	74	44.25	39.72	20.19	55.43	100	0	P	V
			17385	50.48	-17.72	68.2	40.34	41.86	25.22	56.94	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 )
		5641.8	66.87	-1.33	68.2	51.35	31.62	13.68	29.78	246	322	P	H
		5699.2	77.76	-26.85	104.61	62.14	31.7	13.73	29.81	246	322	P	H
		5716.6	79.78	-30.07	109.85	64.05	31.8	13.74	29.81	246	322	P	H
		5724.8	80.96	-40.78	121.74	65.18	31.85	13.75	29.82	246	322	P	H
	*	5775	112.89	-	-	96.92	32	13.8	29.83	246	322	P	H
	*	5775	102.86	-	-	86.89	32	13.8	29.83	246	322	A	H
		5853.6	73.59	-40.4	113.99	57.53	32.11	13.81	29.86	246	322	P	H
		5855	73.35	-37.45	110.8	57.29	32.11	13.81	29.86	246	322	P	H
		5875	68.89	-36.31	105.2	52.8	32.15	13.81	29.87	246	322	P	H
		5926.2	62.05	-6.15	68.2	45.88	32.25	13.81	29.89	246	322	P	H
<b>802.11ax</b>													H
<b>HE80 Full</b>													H
<b>CH 155</b>		5638.6	62.55	-5.65	68.2	47.04	31.62	13.67	29.78	400	284	P	V
<b>5775MHz</b>		5688.6	72.7	-24.09	96.79	57.1	31.68	13.72	29.8	400	284	P	V
		5718.2	74.09	-36.21	110.3	58.34	31.81	13.75	29.81	400	284	P	V
		5723	75.45	-42.19	117.64	59.67	31.84	13.75	29.81	400	284	P	V
	*	5775	109.14	-	-	93.17	32	13.8	29.83	400	284	P	V
	*	5775	98.98	-	-	83.01	32	13.8	29.83	400	284	A	V
		5853.8	68.64	-44.9	113.54	52.58	32.11	13.81	29.86	400	284	P	V
		5856.6	68.35	-42	110.35	52.3	32.11	13.81	29.87	400	284	P	V
		5879.8	63.81	-37.82	101.63	47.71	32.16	13.81	29.87	400	284	P	V
		5925.8	58.08	-10.12	68.2	41.91	32.25	13.81	29.89	400	284	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	49.13	-24.87	74	44.63	39.8	20.16	55.46	100	0	P	H	
		17325	51.65	-16.55	68.2	41.98	41.32	25.2	56.85	100	0	P	H	
													H	
													H	
			11550	49.16	-24.84	74	44.66	39.8	20.16	55.46	100	0	P	V
			17325	51.41	-16.79	68.2	41.74	41.32	25.2	56.85	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\_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 )	
802.11ax HE40 Partial 242/61 CH 155 5775MHz		5644	66.3	-1.9	68.2	50.79	31.61	13.68	29.78	250	318	P	H	
		5700	72.98	-32.22	105.2	57.36	31.7	13.73	29.81	250	318	P	H	
		5720	86.2	-24.6	110.8	70.44	31.82	13.75	29.81	250	318	P	H	
		5724.8	94.39	-27.35	121.74	78.61	31.85	13.75	29.82	250	318	P	H	
	*	5755	120.81			104.86	32	13.78	29.83	250	318	P	H	
	*	5755	112.35			96.4	32	13.78	29.83	250	318	A	H	
		5854.8	62.06	-49.2	111.26	46	32.11	13.81	29.86	250	318	P	H	
		5859.6	62.49	-47.02	109.51	46.43	32.12	13.81	29.87	250	318	P	H	
		5897	61.39	-27.49	88.88	45.27	32.19	13.81	29.88	250	318	P	H	
		5929.8	60.41	-7.79	68.2	44.23	32.26	13.81	29.89	250	318	P	H	
														H
														H
			5642	61.62	-6.58	68.2	46.1	31.62	13.68	29.78	399	264	P	V
			5700	70.57	-34.63	105.2	54.95	31.7	13.73	29.81	399	264	P	V
			5720	82.19	-28.61	110.8	66.43	31.82	13.75	29.81	399	264	P	V
			5724.8	92.08	-29.66	121.74	76.3	31.85	13.75	29.82	399	264	P	V
	*		5755	117.13			101.18	32	13.78	29.83	399	264	P	V
	*		5755	108.24			92.29	32	13.78	29.83	399	264	A	V
			5852.2	59.33	-57.85	117.18	43.28	32.1	13.81	29.86	399	264	P	V
			5860	58.76	-50.64	109.4	42.7	32.12	13.81	29.87	399	264	P	V
		5875.2	58.58	-46.47	105.05	42.49	32.15	13.81	29.87	399	264	P	V	
		5928.8	56.89	-11.31	68.2	40.71	32.26	13.81	29.89	399	264	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 HE40 Partial 242/62 CH 159 5795MHz		5647.8	65.09	-3.11	68.2	49.6	31.6	13.68	29.79	248	323	P	H	
		5699.4	71.28	-33.48	104.76	55.66	31.7	13.73	29.81	248	323	P	H	
		5719.2	77.16	-33.42	110.58	61.4	31.82	13.75	29.81	248	323	P	H	
		5723.8	76.69	-42.77	119.46	60.92	31.84	13.75	29.82	248	323	P	H	
	*	5795	124.32			108.34	32	13.82	29.84	248	323	P	H	
	*	5795	115.77			99.79	32	13.82	29.84	248	323	A	H	
		5850.8	91.71	-28.67	120.38	75.66	32.1	13.81	29.86	248	323	P	H	
		5855	88.09	-22.71	110.8	72.03	32.11	13.81	29.86	248	323	P	H	
		5880	79.48	-22.01	101.49	63.38	32.16	13.81	29.87	248	323	P	H	
		5926.4	66.59	-1.61	68.2	50.42	32.25	13.81	29.89	248	323	P	H	
														H
														H
			5645.4	60.78	-7.42	68.2	45.28	31.61	13.68	29.79	398	280	P	V
			5695.6	65.93	-36.03	101.96	50.31	31.69	13.73	29.8	398	280	P	V
			5709.6	70.19	-37.7	107.89	54.5	31.76	13.74	29.81	398	280	P	V
			5724.6	73.14	-48.15	121.29	57.36	31.85	13.75	29.82	398	280	P	V
	*		5795	120.76			104.78	32	13.82	29.84	398	280	P	V
	*		5795	112.01			96.03	32	13.82	29.84	398	280	A	V
			5850.8	86.43	-33.95	120.38	70.38	32.1	13.81	29.86	398	280	P	V
			5857.2	81.59	-28.59	110.18	65.54	32.11	13.81	29.87	398	280	P	V
		5875.6	72.36	-32.39	104.75	56.27	32.15	13.81	29.87	398	280	P	V	
		5925	60.17	-8.03	68.2	44	32.25	13.81	29.89	398	280	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 242/61 CH 155 5775MHz		11510	48.81	-25.19	74	44.29	39.88	20.13	55.49	100	0	P	H
		17265	51.38	-16.82	68.2	41.99	40.99	25.17	56.77	100	0	P	H
													H
													H
		11510	48.63	-25.37	74	44.11	39.88	20.13	55.49	100	0	P	V
		17265	50.7	-17.5	68.2	41.31	40.99	25.17	56.77	100	0	P	V
													V
													V
802.11ax HE40 Partial 242/62 CH 159 5795MHz		11590	48.97	-25.03	74	44.49	39.72	20.19	55.43	100	0	P	H
		17417	59.75	-8.45	68.2	49.4	42.1	25.23	56.98	100	0	P	H
													H
													H
		11590	48.43	-25.57	74	43.95	39.72	20.19	55.43	100	0	P	V
		17417	60.44	-7.76	68.2	50.09	42.1	25.23	56.98	100	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 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 )	
		5617.4	66.5	-1.7	68.2	50.94	31.67	13.66	29.77	265	322	P	H	
		5693.2	73.45	-26.74	100.19	57.84	31.69	13.72	29.8	265	322	P	H	
		5717.2	90.71	-19.31	110.02	74.97	31.8	13.75	29.81	265	322	P	H	
		5722.8	86.64	-30.54	117.18	70.86	31.84	13.75	29.81	265	322	P	H	
	*	5775	115.76			99.79	32	13.8	29.83	265	322	P	H	
	*	5775	108.81			92.84	32	13.8	29.83	265	322	A	H	
		5854	61.4	-51.68	113.08	45.34	32.11	13.81	29.86	265	322	P	H	
		5856.4	63.38	-47.03	110.41	47.33	32.11	13.81	29.87	265	322	P	H	
		5897.4	61.57	-27.02	88.59	45.45	32.19	13.81	29.88	265	322	P	H	
		5934.2	60.94	-7.26	68.2	44.75	32.27	13.81	29.89	265	322	P	H	
<b>802.11ax HE80 Partial 484/65 CH 155 5775MHz</b>													H	
													H	
			5602.8	62.14	-6.06	68.2	46.58	31.69	13.64	29.77	400	265	P	V
			5692.8	69.43	-30.46	99.89	53.82	31.69	13.72	29.8	400	265	P	V
			5719.4	86.03	-24.6	110.63	70.27	31.82	13.75	29.81	400	265	P	V
			5725	82.37	-39.83	122.2	66.59	31.85	13.75	29.82	400	265	P	V
		*	5775	112.22			96.25	32	13.8	29.83	400	265	P	V
		*	5775	104.96			88.99	32	13.8	29.83	400	265	A	V
			5854	59.06	-54.02	113.08	43	32.11	13.81	29.86	400	265	P	V
			5860.2	57.52	-51.82	109.34	41.46	32.12	13.81	29.87	400	265	P	V
			5876	58.46	-46	104.46	42.37	32.15	13.81	29.87	400	265	P	V
			5925	55.59	-12.61	68.2	39.42	32.25	13.81	29.89	400	265	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		5629.8	66.57	-1.63	68.2	51.04	31.64	13.67	29.78	239	317	P	H	
		5674.4	65.6	-20.7	86.3	50.04	31.65	13.71	29.8	239	317	P	H	
		5713.6	69.2	-39.81	109.01	53.49	31.78	13.74	29.81	239	317	P	H	
		5724.4	72.34	-48.49	120.83	56.56	31.85	13.75	29.82	239	317	P	H	
	*	5775	115.26			99.29	32	13.8	29.83	239	317	P	H	
	*	5775	109.36			93.39	32	13.8	29.83	239	317	A	H	
		5852.8	74.96	-40.86	115.82	58.9	32.11	13.81	29.86	239	317	P	H	
		5856.8	70.15	-40.15	110.3	54.1	32.11	13.81	29.87	239	317	P	H	
		5879.8	65.32	-36.31	101.63	49.22	32.16	13.81	29.87	239	317	P	H	
		5930.6	61.72	-6.48	68.2	45.54	32.26	13.81	29.89	239	317	P	H	
														H
														H
			5607.4	63.32	-4.88	68.2	47.75	31.69	13.65	29.77	399	273	P	V
			5676.6	62.18	-25.74	87.92	46.62	31.65	13.71	29.8	399	273	P	V
			5713	68.18	-40.66	108.84	52.47	31.78	13.74	29.81	399	273	P	V
			5724.8	67.88	-53.86	121.74	52.1	31.85	13.75	29.82	399	273	P	V
	*		5775	110.89			94.92	32	13.8	29.83	399	273	P	V
	*		5775	104.03			88.06	32	13.8	29.83	399	273	A	V
			5853.2	63.97	-50.93	114.9	47.91	32.11	13.81	29.86	399	273	P	V
			5861	63.22	-45.9	109.12	47.16	32.12	13.81	29.87	399	273	P	V
		5883.8	61.53	-37.14	98.67	45.43	32.17	13.81	29.88	399	273	P	V	
		5925.4	59.84	-8.36	68.2	43.67	32.25	13.81	29.89	399	273	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 (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 484/65 CH 155 5775MHz		11550	49.04	-24.96	74	44.54	39.8	20.16	55.46	100	0	P	H
		17325	50.2	-18	68.2	40.53	41.32	25.2	56.85	100	0	P	H
		17989	59.81	-14.19	74	42.59	49.07	25.45	57.3	100	0	P	H
		17989	47.67	-6.33	54	30.45	49.07	25.45	57.3	100	0	A	H
		11550	49.69	-24.31	74	45.19	39.8	20.16	55.46	100	0	P	V
		17325	51.96	-16.24	68.2	42.29	41.32	25.2	56.85	100	0	P	V
		17989	59.99	-14.01	74	42.77	49.07	25.45	57.3	100	0	P	V
802.11ax HE80 Partial 484/66 CH 155 5775MHz		11550	49.3	-24.7	74	44.8	39.8	20.16	55.46	100	0	P	H
		17325	51.61	-16.59	68.2	41.94	41.32	25.2	56.85	100	0	P	H
												P	H
												A	H
		11550	49.36	-24.64	74	44.86	39.8	20.16	55.46	100	0	P	V
		17325	51.83	-16.37	68.2	42.16	41.32	25.2	56.85	100	0	P	V
													P
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		73.65	25.96	-14.04	40	44.69	12.73	1.27	32.73	-	-	P	H	
		127	31.13	-12.37	43.5	44.43	17.6	1.78	32.68	100	0	P	H	
		184.23	19.53	-23.97	43.5	35.14	15.03	2.22	32.86	-	-	P	H	
		399.57	31.22	-14.78	46	38.12	22.08	3.39	32.37	-	-	P	H	
		462.62	28.31	-17.69	46	33.71	23.51	3.64	32.55	-	-	P	H	
		746.83	33.13	-12.87	46	32.93	28.13	4.69	32.62	-	-	P	H	
														H
														H
														H
														H
														H
														H
														H
			48.43	32.31	-7.69	40	49.28	14.93	0.94	32.84	100	0	P	V
			64.92	29.66	-10.34	40	49.34	11.92	1.18	32.78	-	-	P	V
			127	29.48	-14.02	43.5	42.78	17.6	1.78	32.68	-	-	P	V
			187.14	24.82	-18.68	43.5	40.39	15.05	2.25	32.87	-	-	P	V
			405.39	28.22	-17.78	46	34.9	22.3	3.41	32.39	-	-	P	V
			728.4	31.3	-14.7	46	31.49	27.69	4.65	32.53	-	-	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		5633.4	65.84	-2.36	68.2	50.32	31.63	13.67	29.78	250	315	P	H	
		5699.2	73.07	-31.54	104.61	57.45	31.7	13.73	29.81	250	315	P	H	
		5720	86.93	-23.87	110.8	71.17	31.82	13.75	29.81	250	315	P	H	
		5724.8	93.65	-28.09	121.74	77.87	31.85	13.75	29.82	250	315	P	H	
	*	5745	122.68	-	-	106.76	31.97	13.77	29.82	250	315	P	H	
	*	5745	113.81	-	-	97.89	31.97	13.77	29.82	250	315	A	H	
														H
														H
			5632.6	61.23	-6.97	68.2	45.71	31.63	13.67	29.78	350	260	P	V
			5696.4	69.55	-33	102.55	53.93	31.69	13.73	29.8	350	260	P	V
			5719.8	83.01	-27.73	110.74	67.25	31.82	13.75	29.81	350	260	P	V
			5725	89.43	-32.77	122.2	73.65	31.85	13.75	29.82	350	260	P	V
	*		5745	118.3	-	-	102.38	31.97	13.77	29.82	350	260	P	V
	*		5745	109.41	-	-	93.49	31.97	13.77	29.82	350	260	A	V
													V	
													V	



WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5632.6	62.27	-5.93	68.2	46.75	31.63	13.67	29.78	282	308	P	H
		5693.2	63.87	-36.32	100.19	48.26	31.69	13.72	29.8	282	308	P	H
		5715.6	65.53	-44.04	109.57	49.81	31.79	13.74	29.81	282	308	P	H
		5724.4	66.74	-54.09	120.83	50.96	31.85	13.75	29.82	282	308	P	H
	*	5785	122.9	-	-	106.93	32	13.81	29.84	282	308	P	H
	*	5785	114.1	-	-	98.13	32	13.81	29.84	282	308	A	H
		5850.2	63.51	-58.23	121.74	47.46	32.1	13.81	29.86	282	308	P	H
		5855	62.64	-48.16	110.8	46.58	32.11	13.81	29.86	282	308	P	H
		5893	60.7	-31.14	91.84	44.58	32.19	13.81	29.88	282	308	P	H
		5925.2	58	-10.2	68.2	41.83	32.25	13.81	29.89	282	308	P	H
802.11ax													H
HE20 Full													H
CH 157		5636	59.33	-8.87	68.2	43.81	31.63	13.67	29.78	400	259	P	V
5785MHz		5682	59.84	-32.08	91.92	44.27	31.66	13.71	29.8	400	259	P	V
		5716.6	60.22	-49.63	109.85	44.49	31.8	13.74	29.81	400	259	P	V
		5724.2	60.08	-60.3	120.38	44.3	31.85	13.75	29.82	400	259	P	V
	*	5785	118.89	-	-	102.92	32	13.81	29.84	400	259	P	V
	*	5785	110.13	-	-	94.16	32	13.81	29.84	400	259	A	V
		5851.2	59.15	-60.31	119.46	43.1	32.1	13.81	29.86	400	259	P	V
		5855.4	59.26	-51.43	110.69	43.21	32.11	13.81	29.87	400	259	P	V
		5894	59.26	-31.84	91.1	43.14	32.19	13.81	29.88	400	259	P	V
		5950	55.79	-12.41	68.2	39.58	32.3	13.81	29.9	400	259	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	124.38	-	-	108.36	32.05	13.82	29.85	247	322	P	H	
	*	5825	114.2	-	-	98.18	32.05	13.82	29.85	247	322	A	H	
		5850.4	83.92	-37.37	121.29	67.87	32.1	13.81	29.86	247	322	P	H	
		5856	79.92	-30.6	110.52	63.87	32.11	13.81	29.87	247	322	P	H	
		5886.4	70.74	-26	96.74	54.64	32.17	13.81	29.88	247	322	P	H	
		5934	60.95	-7.25	68.2	44.76	32.27	13.81	29.89	247	322	P	H	
														H
														H
	*	5825	118.59	-	-	102.57	32.05	13.82	29.85	400	285	P	V	
	*	5825	109.2	-	-	93.18	32.05	13.82	29.85	400	285	A	V	
		5850.6	79.01	-41.82	120.83	62.96	32.1	13.81	29.86	400	285	P	V	
		5855.4	74.51	-36.18	110.69	58.46	32.11	13.81	29.87	400	285	P	V	
		5875.6	67.17	-37.58	104.75	51.08	32.15	13.81	29.87	400	285	P	V	
		5929	57.37	-10.83	68.2	41.19	32.26	13.81	29.89	400	285	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 802.11ax 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	55.26	-18.74	74	50.75	39.91	20.11	55.51	372	2	P	H	
		11490	45.38	-8.62	54	40.87	39.91	20.11	55.51	372	2	A	H	
		17235	52.58	-15.62	68.2	43.25	40.9	25.16	56.73	100	0	P	H	
													H	
			11490	54.39	-19.61	74	49.88	39.91	20.11	55.51	341	318	P	V
			11490	44.62	-9.38	54	40.11	39.91	20.11	55.51	341	318	A	V
			17235	54.56	-13.64	68.2	45.23	40.9	25.16	56.73	100	0	P	V
													V	
802.11ax HE20 Full CH 157 5785MHz		11570	49.41	-24.59	74	44.91	39.76	20.18	55.44	100	0	P	H	
		17355	50.38	-17.82	68.2	40.47	41.6	25.21	56.9	100	0	P	H	
													H	
													H	
			11570	49.64	-24.36	74	45.14	39.76	20.18	55.44	100	0	P	V
			17355	51.25	-16.95	68.2	41.34	41.6	25.21	56.9	100	0	P	V
														V
													V	
802.11ax HE20 Full CH 165 5825MHz		11650	49.73	-24.27	74	45.33	39.55	20.23	55.38	100	0	P	H	
		17475	52.02	-16.18	68.2	41.38	42.45	25.25	57.06	100	0	P	H	
													H	
													H	
			11650	48.88	-25.12	74	44.48	39.55	20.23	55.38	100	0	P	V
			17475	51.72	-16.48	68.2	41.08	42.45	25.25	57.06	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 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 )
		5645.8	66.63	-1.57	68.2	51.13	31.61	13.68	29.79	250	315	P	H
		5697.2	79.69	-23.45	103.14	64.07	31.69	13.73	29.8	250	315	P	H
		5718.4	95.04	-15.31	110.35	79.29	31.81	13.75	29.81	250	315	P	H
		5724	92.94	-26.98	119.92	77.17	31.84	13.75	29.82	250	315	P	H
	*	5755	118.39	-	-	102.44	32	13.78	29.83	250	315	P	H
	*	5755	109.12	-	-	93.17	32	13.78	29.83	250	315	A	H
		5851.6	67.04	-51.51	118.55	50.99	32.1	13.81	29.86	250	315	P	H
		5857	64.88	-45.36	110.24	48.83	32.11	13.81	29.87	250	315	P	H
		5879.2	62.31	-39.77	102.08	46.21	32.16	13.81	29.87	250	315	P	H
		5927.8	60.03	-8.17	68.2	43.85	32.26	13.81	29.89	250	315	P	H
<b>802.11ax</b>													H
<b>HE40 Full</b>													H
<b>CH 151</b>		5649.6	63.23	-4.97	68.2	47.74	31.6	13.68	29.79	350	261	P	V
<b>5755MHz</b>		5697.4	72.86	-30.42	103.28	57.25	31.69	13.73	29.81	350	261	P	V
		5717.4	87.75	-22.32	110.07	72.01	31.8	13.75	29.81	350	261	P	V
		5723.6	88.14	-30.87	119.01	72.36	31.84	13.75	29.81	350	261	P	V
	*	5755	113.72	-	-	97.77	32	13.78	29.83	350	261	P	V
	*	5755	103.99	-	-	88.04	32	13.78	29.83	350	261	A	V
		5853.2	61.34	-53.56	114.9	45.28	32.11	13.81	29.86	350	261	P	V
		5861.4	60.52	-48.49	109.01	44.46	32.12	13.81	29.87	350	261	P	V
		5887.2	58.31	-37.83	96.14	42.21	32.17	13.81	29.88	350	261	P	V
		5926	57.16	-11.04	68.2	40.99	32.25	13.81	29.89	350	261	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 )
		5645.6	61.23	-6.97	68.2	45.73	31.61	13.68	29.79	245	320	P	H
		5699.6	68.78	-36.13	104.91	53.16	31.7	13.73	29.81	245	320	P	H
		5719.6	74.23	-36.46	110.69	58.47	31.82	13.75	29.81	245	320	P	H
		5722.6	74.89	-41.84	116.73	59.11	31.84	13.75	29.81	245	320	P	H
	*	5795	119.33	-	-	103.35	32	13.82	29.84	245	320	P	H
	*	5795	110.06	-	-	94.08	32	13.82	29.84	245	320	A	H
		5852.2	78.44	-38.74	117.18	62.39	32.1	13.81	29.86	245	320	P	H
		5856.6	75.58	-34.77	110.35	59.53	32.11	13.81	29.87	245	320	P	H
		5876	70.35	-34.11	104.46	54.26	32.15	13.81	29.87	245	320	P	H
		5929.4	58.82	-9.38	68.2	42.64	32.26	13.81	29.89	245	320	P	H
802.11ax													H
HE40 Full													H
CH 159		5629.4	57.26	-10.94	68.2	41.73	31.64	13.67	29.78	342	258	P	V
5795MHz		5694.6	63.45	-37.77	101.22	47.83	31.69	13.73	29.8	342	258	P	V
		5719.4	67.67	-42.96	110.63	51.91	31.82	13.75	29.81	342	258	P	V
		5725	69.07	-53.13	122.2	53.29	31.85	13.75	29.82	342	258	P	V
	*	5795	114.33	-	-	98.35	32	13.82	29.84	342	258	P	V
	*	5795	104.79	-	-	88.81	32	13.82	29.84	342	258	A	V
		5851.8	71.93	-46.17	118.1	55.88	32.1	13.81	29.86	342	258	P	V
		5863.2	69.76	-38.74	108.5	53.69	32.13	13.81	29.87	342	258	P	V
		5875.2	62.81	-42.24	105.05	46.72	32.15	13.81	29.87	342	258	P	V
		5927.2	55.5	-12.7	68.2	39.33	32.25	13.81	29.89	342	258	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 4 5725~5850MHz**

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

WIFI Ant. 1+2	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ax HE40 Full CH 151 5755MHz		11510	49.74	-24.26	74	45.22	39.88	20.13	55.49	100	0	P	H	
		17265	52.44	-15.76	68.2	43.05	40.99	25.17	56.77	100	0	P	H	
													H	
													H	
			11510	49.71	-24.29	74	45.19	39.88	20.13	55.49	100	0	P	V
			17265	52.82	-15.38	68.2	43.43	40.99	25.17	56.77	100	0	P	V
														V
802.11ax HE40 Full CH 159 5795MHz		11590	48.67	-25.33	74	44.19	39.72	20.19	55.43	100	0	P	H	
		17385	50.63	-17.57	68.2	40.49	41.86	25.22	56.94	100	0	P	H	
													H	
													H	
			11590	49.05	-24.95	74	44.57	39.72	20.19	55.43	100	0	P	V
			17385	52.37	-15.83	68.2	42.23	41.86	25.22	56.94	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 )
		5616.8	66.49	-1.71	68.2	50.93	31.67	13.66	29.77	279	306	P	H
		5698.6	75.5	-28.67	104.17	59.88	31.7	13.73	29.81	279	306	P	H
		5718.4	79.59	-30.76	110.35	63.84	31.81	13.75	29.81	279	306	P	H
		5723	80.19	-37.45	117.64	64.41	31.84	13.75	29.81	279	306	P	H
	*	5775	112.63	-	-	96.66	32	13.8	29.83	279	306	P	H
	*	5775	104.21	-	-	88.24	32	13.8	29.83	279	306	A	H
		5852.4	71.99	-44.74	116.73	55.94	32.1	13.81	29.86	279	306	P	H
		5859.6	72.68	-36.83	109.51	56.62	32.12	13.81	29.87	279	306	P	H
		5878.6	67.23	-35.3	102.53	51.13	32.16	13.81	29.87	279	306	P	H
		5948.2	60.4	-7.8	68.2	44.19	32.3	13.81	29.9	279	306	P	H
<b>802.11ax</b>													H
<b>HE80 Full</b>													H
<b>CH 155</b>		5604.8	62.81	-5.39	68.2	47.25	31.69	13.64	29.77	381	75	P	V
<b>5775MHz</b>		5699.4	66.87	-37.89	104.76	51.25	31.7	13.73	29.81	381	75	P	V
		5715.4	74.04	-35.47	109.51	58.32	31.79	13.74	29.81	381	75	P	V
		5723.2	72.49	-45.61	118.1	56.71	31.84	13.75	29.81	381	75	P	V
	*	5775	106.24	-	-	90.27	32	13.8	29.83	381	75	P	V
	*	5775	99.09	-	-	83.12	32	13.8	29.83	381	75	A	V
		5854.2	64.69	-47.93	112.62	48.63	32.11	13.81	29.86	381	75	P	V
		5871.2	66.35	-39.91	106.26	50.27	32.14	13.81	29.87	381	75	P	V
		5877.2	62.18	-41.39	103.57	46.09	32.15	13.81	29.87	381	75	P	V
		5930.2	58.07	-10.13	68.2	41.89	32.26	13.81	29.89	381	75	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	47.97	-26.03	74	43.47	39.8	20.16	55.46	100	0	P	H	
		17325	50.27	-17.93	68.2	40.6	41.32	25.2	56.85	100	0	P	H	
													H	
													H	
			11550	48.89	-25.11	74	44.39	39.8	20.16	55.46	100	0	P	V
			17325	50.89	-17.31	68.2	41.22	41.32	25.2	56.85	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 HE40 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 HE40 Full LF		69.77	27.61	-12.39	40	46.68	12.45	1.23	32.75	-	-	P	H	
		129.91	33.84	-9.66	43.5	47.21	17.52	1.8	32.69	100	0	P	H	
		224.97	21.48	-24.52	46	35.95	15.86	2.49	32.82	-	-	P	H	
		409.27	31.65	-14.35	46	38.19	22.43	3.43	32.4	-	-	P	H	
		742.95	36.07	-9.93	46	35.87	28.11	4.69	32.6	-	-	P	H	
		897.18	33.76	-12.24	46	31.76	29.14	5.29	32.43	-	-	P	H	
														H
														H
														H
														H
														H
														H
														H
														H
														H
														H
														H
														H
														H
			48.43	33.22	-6.78	40	50.19	14.93	0.94	32.84	100	0	P	V
		115.36	31.09	-12.41	43.5	44.58	17.48	1.68	32.65	-	-	P	V	
		190.05	24.45	-19.05	43.5	40.09	14.98	2.26	32.88	-	-	P	V	
		416.06	30.06	-15.94	46	36.27	22.76	3.45	32.42	-	-	P	V	
		731.31	31.22	-14.78	46	31.29	27.82	4.65	32.54	-	-	P	V	
		931.13	33.93	-12.07	46	30.49	29.99	5.38	31.93	-	-	P	V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



**Note symbol**

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
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 :	Karl Hou, Caster Liao and Andy Yang	Temperature :	20~25°C
		Relative Humidity :	50~60%

<CDD Mode>

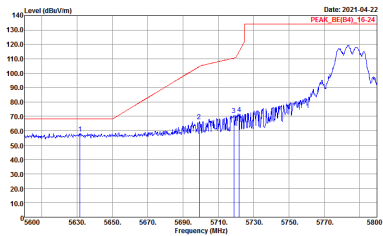
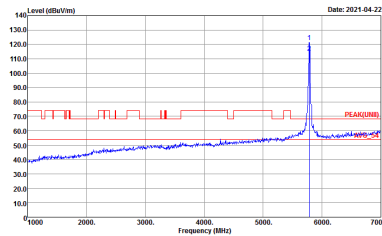
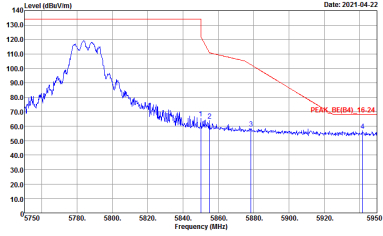
**Band 4 - 5725~5850MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



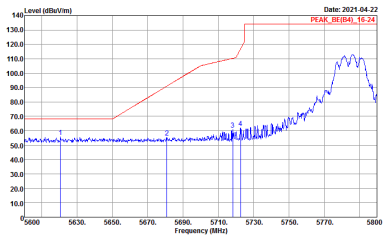
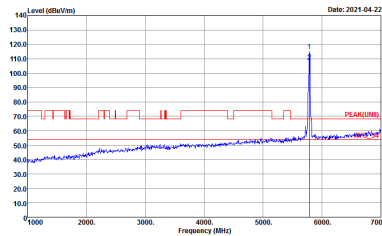
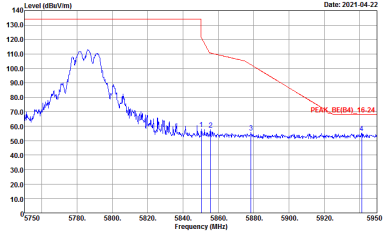
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank



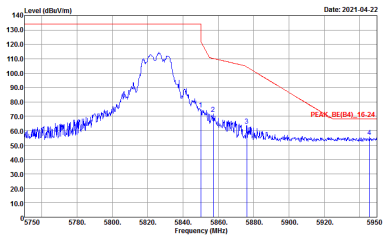
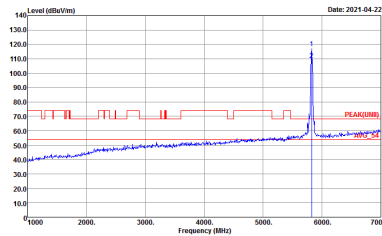


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 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 : 03CH16-HY Condition : PEAK_8C[94]_16-24 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK[LINE3] 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



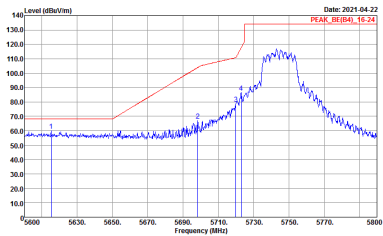
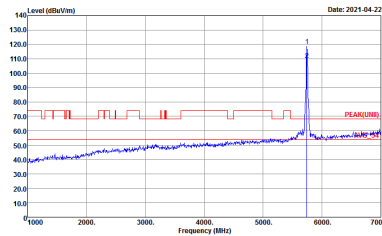
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY          Condition : PEAK_SC(94)_16-24 3m 91200_1522 VERTICAL          : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY          Condition : PEAK(LINE) 3m 91200_1522 VERTICAL          : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



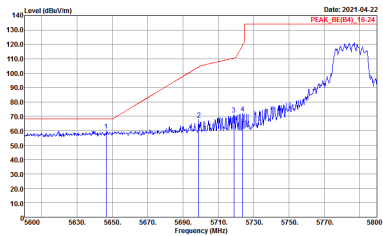
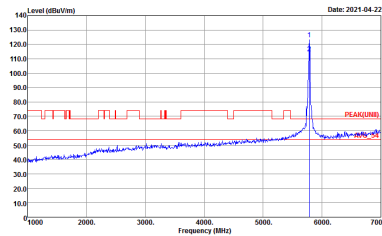
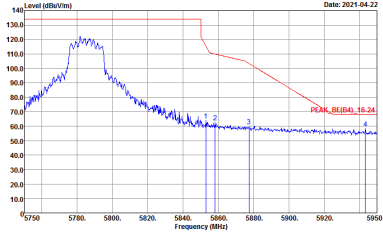
**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE20 Full (Band Edge @ 3m)**

<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 : 03CH16-HY          Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL          : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 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 : 03CH16-HY          Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL          : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY          Condition : PEAK(FUNB) 3m 91200_1522 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 : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 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		
Peak		Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	<p>Date: 2021-04-22</p> <p>Site : 03CH16-HY          Condition : PEARK_SC(94)_16-24 3m 91200_1522 HORIZONTAL          : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Date: 2021-04-22</p> <p>Site : 03CH16-HY          Condition : PEARK(LINE) 3m 91200_1522 HORIZONTAL          : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>

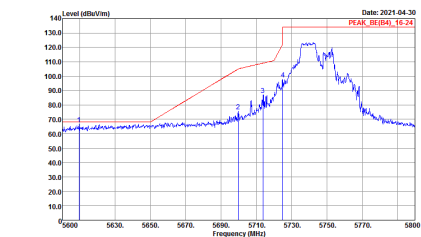
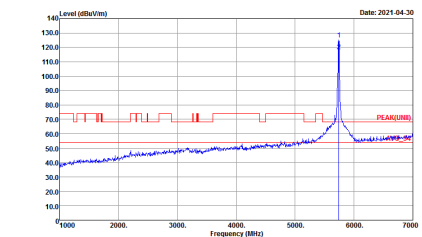




WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_06(B4)_16-24 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



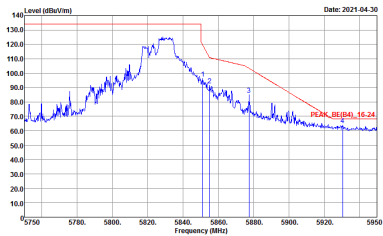
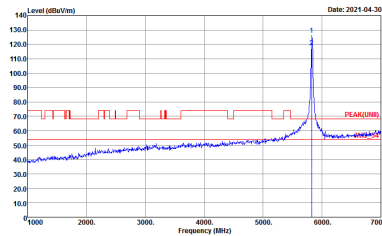
**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)**

<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 : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> <p>Date: 2021-04-30 PEAK_BE(84)_16-24</p>	 <p>Site : 03CH16-HY Condition : PEAK(UNII)_3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> <p>Date: 2021-04-30 PEAK(UNII)</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/53 CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	<p>Date: 2021-04-30 PEAK: BE(B4)_15-24</p> <p>Site : 03CH16-HY Condition : PEAK_SC(B4)_16-24 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Date: 2021-04-30 PEAK(LINE)</p> <p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY          Condition : PEAK_S([4]_16-24 3m 91200_1522 HORIZONTAL          : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY          Condition : PEAK[LINE] 3m 91200_1522 HORIZONTAL          : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Partial 106/54 CH165 5825MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_B4(16-24) 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



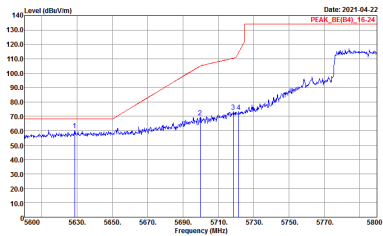
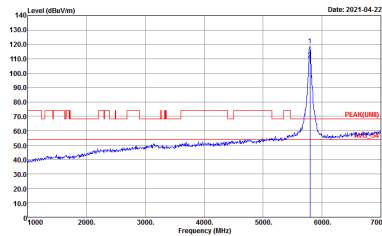
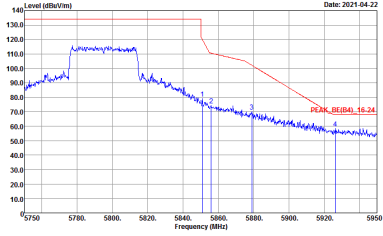
**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE40 Full (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY            Condition : PEAK(U16) 3m 91200_1522 HORIZONTAL            : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Peak	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



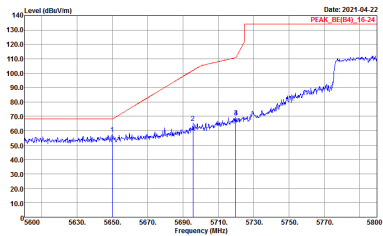
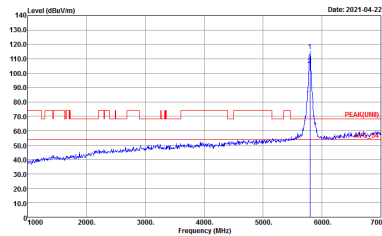
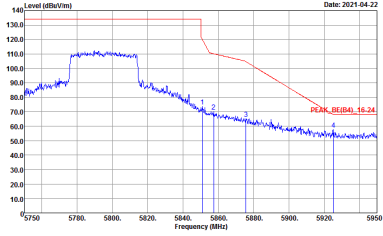
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 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>Date: 2021-04-22 PEAK_BE(B4)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Date: 2021-04-22 PEAK(LINE)</p> <p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	 <p>Date: 2021-04-22 PEAK_BE(B4)_16-24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank





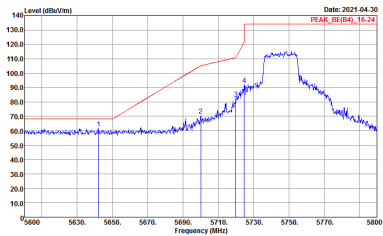
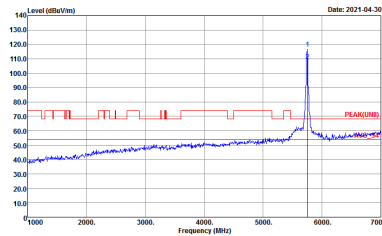
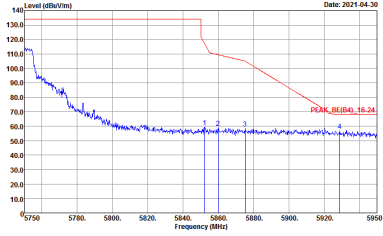
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 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 : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY            Condition : PEAK(UIN) 3m 91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank

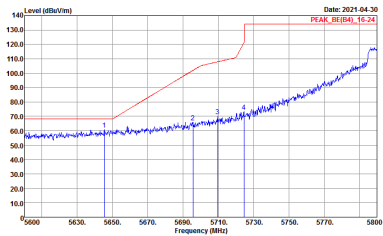
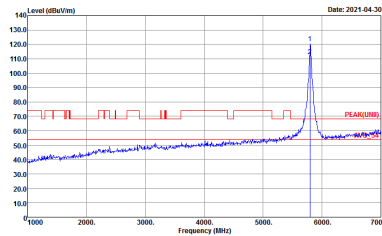
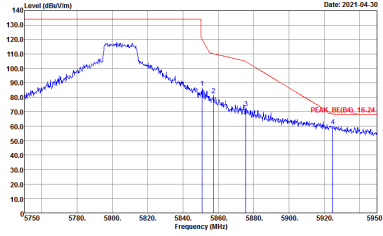


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Partial 242/61 CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 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 : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 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 : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank



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

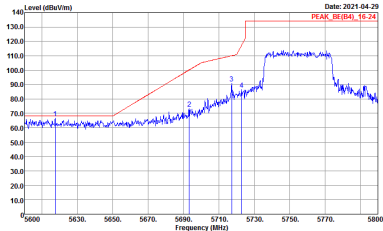
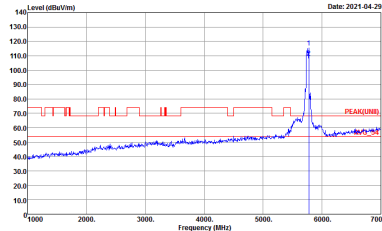
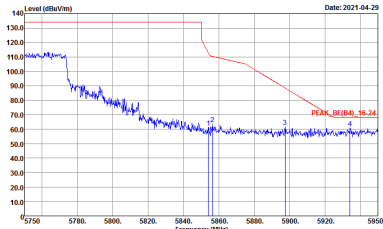
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 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 : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank



**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE80 Partial 484 (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	 <p>Date: 2021.04.29 PEAK_BE(04)_16.24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(04)_16-24 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Date: 2021.04.29 PEAK(UNII)</p> <p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	 <p>Date: 2021.04.29 PEAK_BE(04)_16.24</p> <p>Site : 03CH16-HY Condition : PEAK_BE(04)_16-24 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank



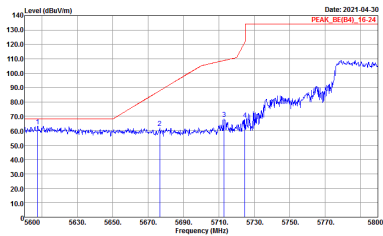
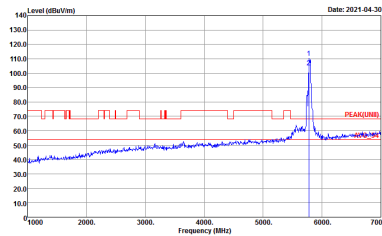
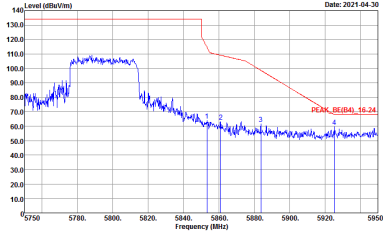


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE80 Partial 484/65 CH155 5775MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 VERTICAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto</p>
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL : RBW:1000.000KHz VSW: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 : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto</p>
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VSW: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>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 VERTICAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto</p>
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto</p>	Left blank



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

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11a CH149 5745MHz</b>	
<b>1+2</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH16-HY          Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL          Detector : Peak</p>	<p>Site : 03CH16-HY          Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL          Detector : Peak</p>



<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</b> <b>Avg.</b>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z HORIZONTAL Detector : Peak</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z VERTICAL Detector : Peak</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 : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z HORIZONTAL Detector : Peak</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z VERTICAL Detector : Peak</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 : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z HORIZONTAL Detector : Peak</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z VERTICAL Detector : Peak</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 : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z HORIZONTAL Detector : Peak</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z VERTICAL Detector : Peak</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 : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL          Detector : Peak</p>	<p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 VERTICAL          Detector : Peak</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</b> <b>Avg.</b>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z HORIZONTAL Detector : Peak</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z VERTICAL Detector : Peak</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 : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak</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</b> <b>Avg.</b>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z HORIZONTAL Detector : Peak</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z VERTICAL Detector : Peak</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>	<p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL          Detector : Peak</p>	<p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 VERTICAL          Detector : Peak</p>



<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</b> <b>Avg.</b>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z HORIZONTAL Detector : Peak</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z VERTICAL Detector : Peak</p>



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

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Full CH155 5775MHz	
1+2	Horizontal	Vertical
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak</p>





**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE80 Partial 484 (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 : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL          Detector : Peak</p>	<p>Site : 03CH16-HY          Condition : PEAK(UNII) 3m 91200_1522 VERTICAL          Detector : Peak</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE80 Partial 484/66 CH155 5775MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL Detector : Peak</p>



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

Table with 2 columns: Horizontal and Vertical. Each column contains a spectral plot of Level (dBuV/m) vs Frequency (MHz) from 50 to 1000 MHz. The plots show a blue signal line and a red QP line. Metadata includes Site: 03CH16-HY, Condition: QP 3m BIL06\_47020406, and Detector: Peak.

QP / Peak

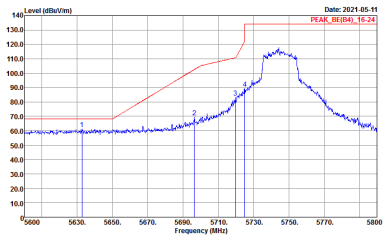
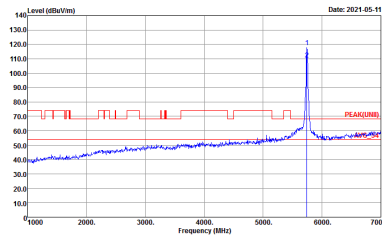


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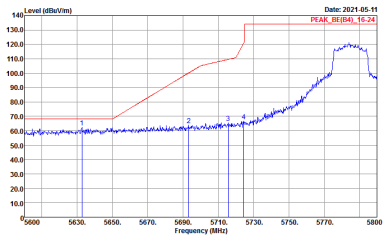
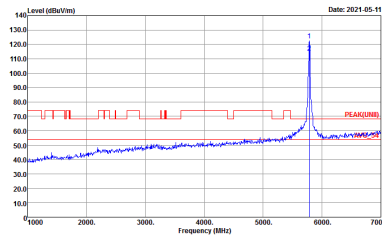
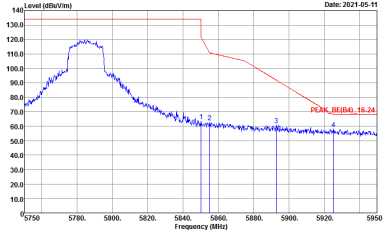
**Band 4 - 5725~5850MHz**  
**WIFI 802.11ax HE20 Full (Band Edge @ 3m)**

<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 : 03CH16-HY          Condition : PEAK_REF(84)_16-24 3m 91200_1522 HORIZONTAL          : RBW:1000.000kHz VSW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH16-HY          Condition : PEAK(149) 3m 91200_1522 HORIZONTAL          : RBW:1000.000kHz VSW:3000.000kHz SWT:Auto</p>

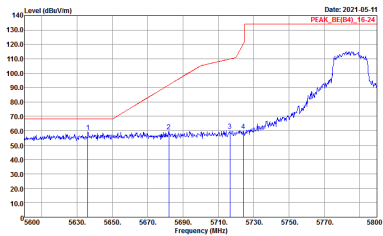
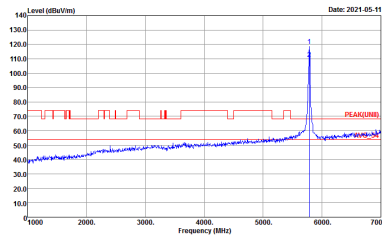
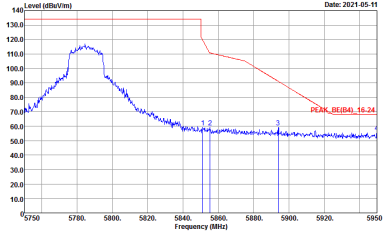


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH149 5745MHz	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY          Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL          : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY          Condition : PEAK(LINE) 3m 91200_1522 VERTICAL          : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>

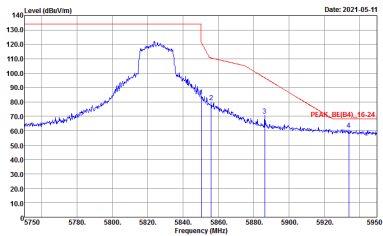
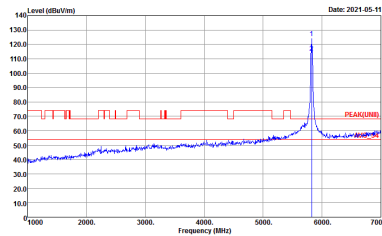


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank



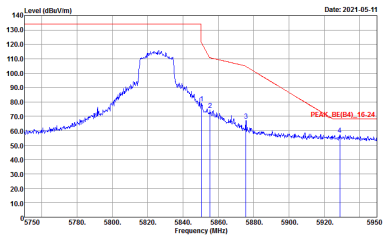
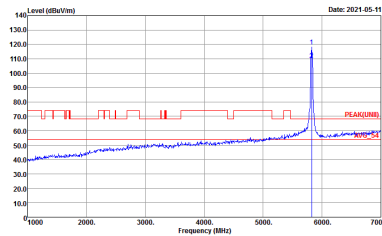
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Vertical	Fundamental
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 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 : 03CH16-HY          Condition : PEAK_SC[94]_16-24 3m 91200_1522 HORIZONTAL          : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY          Condition : PEAK[LINE] 3m 91200_1522 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>Date: 2021-05-11</p> <p>Site : 03CH16-HY          Condition : PEAK_B4(B4)_16-24 3m 91200_1522 VERTICAL          : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Date: 2021-05-11</p> <p>Site : 03CH16-HY          Condition : PEAK(FUN) 3m 91200_1522 VERTICAL          : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>



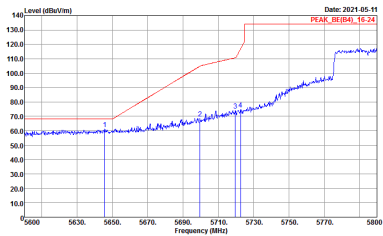
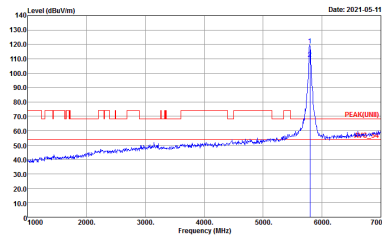
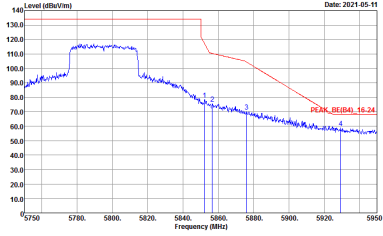
**Band 4 5725~5850MHz**  
**WIFI 802.11ax HE40 Full (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Fundamental
Peak	<p>Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY            Condition : PEAK(UN) 3m 91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	<p>Site : 03CH16-HY            Condition : PEAK_BE(84)_16-24 3m 91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank

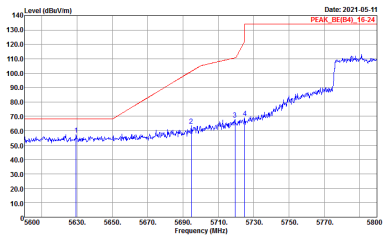
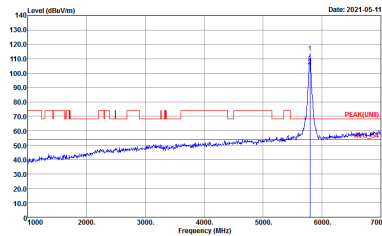
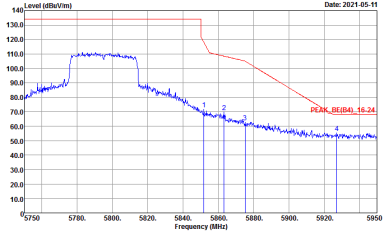


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Vertical	Fundamental
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	<p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 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 : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 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 : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH16-HY Condition : PEAK(LINE) 3m 91200_1522 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	 <p>Site : 03CH16-HY Condition : PEAK_BE(B4)_16-24 3m 91200_1522 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 : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH16-HY            Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL            : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Peak	<p>Site : 03CH16-HY            Condition : PEAK_BE(B4)_16-24 3m 91200_1522 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		
Peak		Left blank



**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</b> <b>Avg.</b>	<p>Site : 03CH16-HY          Condition : PEAK(UNIT) 3m 91200_1522 HORIZONTAL          Detector : Peak</p>	<p>Site : 03CH16-HY          Condition : PEAK(UNIT) 3m 91200_1522 VERTICAL          Detector : Peak</p>





WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH157 5785MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z HORIZONTAL Detector : Peak</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z VERTICAL Detector : Peak</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE20 Full CH165 5825MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z HORIZONTAL Detector : Peak</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z VERTICAL Detector : Peak</p>



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

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH151 5755MHz	
1+2	Horizontal	Vertical
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ax HE40 Full CH159 5795MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z HORIZONTAL Detector : Peak</p>	<p>Site : 03CH16-HY Condition : PEAK(UNIT) 3m 91200_152Z VERTICAL Detector : Peak</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 : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH16-HY Condition : PEAK(UNII) 3m 91200_1522 VERTICAL Detector : Peak</p>



Emission below 1GHz  
5GHz WIFI 802.11ax HE40 Full (LF)

WIFI	5GHz WIFI	
ANT	802.11ax HE40 Full LF	
1+2	Horizontal	Vertical
QP / Peak	<p>Site : 03CH16-HY Condition : QP 3m BIL06_47020406 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH16-HY Condition : QP 3m BIL06_47020406 VERTICAL Detector : Peak</p>



## Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
1+2	802.11a	99.04	-	-	10Hz	0.04
1+2	5GHz 802.11ax HE20 Full RU	97.74	780	1.28	3kHz	0.10
1+2	5GHz 802.11ax HE20 106 RU	81.35	4515	0.22	300Hz	0.90
1+2	5GHz 802.11ax HE40 Full RU	97.04	656	1.52	3kHz	0.13
1+2	5GHz 802.11ax HE40 242 RU	81.84	4530	0.22	1KHz	0.87
1+2	5GHz 802.11ax HE80 Full RU	92.48	1845	0.54	1kHz	0.34
1+2	5GHz 802.11ax HE80 484 RU	12.79	147	6.80	10kHz	8.93

### MIMO <Ant. 1+2>

