

# TEST REPORT

## CERTIFICATE OF CONFORMITY

**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)  
**Report No.:** RFBBQZ-WTW-P22010396-1  
**FCC ID:** PY322100555  
**Model No.:** RAX50v2, RAX43v2, XR1000v2  
**Series Model:** RAX42v2, RAX41v2  
**Received Date:** 2022/1/7  
**Test Date:** 2022/1/7 ~ 2022/5/3  
**Issued Date:** 2022/5/13

**Applicant and  
Manufacturer:** NETGEAR, Inc.

**Address:** 350 East Plumeria Drive San Jose, CA 95134

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Hsin Chu Laboratory

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**Test Location:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

**FCC Registration /** 723255 / TW2022

**Designation Number:**

**Approved by:** \_\_\_\_\_, **Date:** 2022/5/13  
May Chen / Manager

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Prepared by : Vivian Huang / Specialist

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## Release Control Record

Issue No.	Description	Date Issued
RFBBQZ-WTW-P22010396-1	Original release.	2022/5/13

## 1 Certificate

**Product:** Nighthawk AX6 AX5400 6-Stream WiFi Router,  
Nighthawk AX5 AX4200 5-Stream WiFi Router,  
Nighthawk AX5 AX3600 5-Stream WiFi Router,  
Nighthawk Pro Gaming Router

**Brand:** NETGEAR

**Test Model:** RAX50v2, RAX43v2, XR1000v2

**Series Model:** RAX42v2, RAX41v2

**Sample Status:** Engineering sample

**Applicant and  
Manufacturer:** NETGEAR, Inc.

**Test Date:** 2022/1/7 ~ 2022/5/3

**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)

**Measurement  
procedure:** ANSI C63.10-2013  
KDB 789033 D02 General UNII Test Procedure New Rules v02r01  
KDB 662911 D01 Multiple Transmitter Output v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

## 2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	-	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1/2/3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1/2/3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -15.04 dB at 0.15391, 0.15473 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -5.1 dB at 439.69 MHz
15.407(b)(1/2/3/4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 5142.00, 5146.37, 5351.59, 5352.80, 5352.82, 5461.07, 5648.00, 5725.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is R-SMA not a standard connector.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.5 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

### 2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

Product	NIGHTHAWK AX6 AX5400 6-Stream WiFi Router, NIGHTHAWK AX5 AX4200 5-Stream WiFi Router, NIGHTHAWK AX5 AX3600 5-Stream WiFi Router, NIGHTHAWK Pro Gaming Router
Brand	NETGEAR
Test Model	RAX50v2, RAX43v2, XR1000v2
Series Model	RAX42v2, RAX41v2
FW Version	V1.1.0.5_2.15.1
Status of EUT	Engineering sample
Power Supply Rating	12Vdc from adapter
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 600 Mbps 802.11ac: up to 3466.7 Mbps 802.11ax: up to 4803.9 Mbps
Operating Frequency	5180 ~ 5250 MHz 5260 ~ 5320 MHz 5500 ~ 5720 MHz 5745 ~ 5825 MHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6 802.11ac (VHT160), 802.11ax (HE160): 2
Output Power	<b>Mode A</b> <b>CDD Mode</b> 5180 ~ 5250 MHz : 911.214 mW (29.6 dBm) 5260 ~ 5320 MHz : 247.599 mW (23.94 dBm) 5500 ~ 5720 MHz : 243.967 mW (23.87 dBm) 5745 ~ 5825 MHz : 954.027 mW (29.80 dBm) <b>Beamforming Mode</b> 5180 ~ 5250 MHz : 856.196 mW (29.33 dBm) 5260 ~ 5320 MHz : 213.155 mW (23.29 dBm) 5500 ~ 5720 MHz : 214.256 mW (23.31 dBm) 5745 ~ 5825 MHz : 853.753 mW (29.31 dBm) <b>Mode B</b> <b>CDD Mode</b> 5180 ~ 5250 MHz : 900.909 mW (29.55 dBm) 5260 ~ 5320 MHz : 240.517 mW (23.81 dBm) 5500 ~ 5720 MHz : 245.756 mW (23.91 dBm) 5745 ~ 5825 MHz : 981.949 mW (29.92 dBm) <b>Beamforming Mode</b> 5180 ~ 5250 MHz : 900.909 mW (29.55 dBm) 5260 ~ 5320 MHz : 227.048 mW (23.56 dBm) 5500 ~ 5720 MHz : 240.692 mW (23.81 dBm) 5745 ~ 5825 MHz : 954.561 mW (29.80 dBm)
EUT Category	Indoor Access Point

Note:

1. The EUT has below model names which are identical to each other in all aspects except for the following table:

Product Name	Model Name	Description
NIGHTHAWK AX6 AX5400 6-Stream WiFi Router	RAX50v2	2.4GHz 2x2, 5G 4x4
NIGHTHAWK AX5 AX4200 5-Stream WiFi Router	RAX43v2	2.4GHz 2x2, 5G 3X3, (de-pop 1 RF chain from RAX50v2)
NIGHTHAWK AX5 AX4200 5-Stream WiFi Router	RAX42v2	2.4GHz 2x2, 5G 3X3, (de-pop 1 RF chain from RAX50v2)
NIGHTHAWK AX5 AX3600 5-Stream WiFi Router	RAX41v2	2.4GHz 2x2, 5G 3X3, (de-pop 1 RF chain from RAX50v2)
NIGHTHAWK Pro Gaming Router	XR1000v2	XR1000v2 has a different housing with a different antenna and new functions like Geo-filter, new QoS, and network monitor. Note: RF function and MIMO spec is same as RAX50v2

Note: From the above models, model: **RAX50v2, RAX43v2, XR1000v2** were selected as representative model for the test and its data was recorded in this report.

2. The EUT has below radios as following table:

Radio 1	Radio 2
WLAN 2.4GHz	WLAN 5GHz

3. Simultaneously transmission condition.

Condition	Technology	
1	WLAN 2.4GHz	WLAN 5GHz

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

4. The EUT uses following accessories.

AC Adapter 1			
Brand	Model	Part Number	Specification
NETGEAR	ADS-40FPA-12	332-11525-02	AC Input : 100-120 50/60 1.0A DC Output : 12V 2.5A DC Output Cable : 1.8m non-shielded and without core Plug : FCC/Canada/Taiwan
AC Adapter 2			
Brand	Model	Part Number	Specification
NETGEAR	2ABL030F 1 NA	332-10758-02	AC Input : 100-120V 50/60Hz 1.0A DC Output : 12V 2.5A DC Output Cable : 1.8m non-shielded and without core Plug : FCC/Canada/Taiwan
RJ45 Cable			
Brand	Model	Specification	
NETGEAR	N/A	Signal Line : 1.8 m	

5. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

### 3.2 Antenna Description of EUT

1. The directional antenna gain, please refer to the following table:

Model: RAX50v2, XR1000v2			
Frequency Range (GHz)	Directional Antenna Gain (dBi)	Antenna Type	Antenna Connector
2.4~2.4835	3.73	Dipole	R-SMA
5.15 ~ 5.25	6.65		
5.25 ~ 5.35	6.69		
5.47 ~ 5.725	6.27		
5.725 ~ 5.85	6.57		
Model: RAX43v2			
Frequency Range (GHz)	Directional Antenna Gain (dBi)	Antenna Type	Antenna Connector
2.4~2.4835	3.73	Dipole	R-SMA
5.15 ~ 5.25	5.87		
5.25 ~ 5.35	6.4		
5.47 ~ 5.725	6.16		
5.725 ~ 5.85	6.18		

Note: More detailed information, please refer to antenna specification.

2. The EUT incorporates a MIMO function:

5 GHz Band			
Model: RAX50v2, XR1000v2			
MODULATION MODE	TX & RX CONFIGURATION		
802.11a	4TX		4RX
802.11n (HT20)	4TX		4RX
802.11n (HT40)	4TX		4RX
802.11ac (VHT20)	4TX		4RX
802.11ac (VHT40)	4TX		4RX
802.11ac (VHT80)	4TX		4RX
802.11ac (VHT160)	4TX		4RX
802.11ax (HE20)	4TX		4RX
802.11ax (HE40)	4TX		4RX
802.11ax (HE80)	4TX		4RX
802.11ax (HE160)	4TX		4RX
Model: RAX43v2			
MODULATION MODE	TX & RX CONFIGURATION		
802.11a	3TX		3RX
802.11n (HT20)	3TX		3RX
802.11n (HT40)	3TX		3RX
802.11ac (VHT20)	3TX		3RX
802.11ac (VHT40)	3TX		3RX
802.11ac (VHT80)	3TX		3RX
802.11ac (VHT160)	3TX		3RX
802.11ax (HE20)	3TX		3RX
802.11ax (HE40)	3TX		3RX
802.11ax (HE80)	3TX		3RX
802.11ax (HE160)	3TX		3RX

**Note:**

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 160 MHz) and 802.11ax mode for 20 MHz (40MHz, 80MHz, 160 MHz), therefore the manufacturer will control the power for 802.11n/ac mode is the same as the 802.11ax or more lower than it and investigated worst case to representative mode in test report.

### 3.3 Channel List

#### FOR 5180 ~ 5320 MHz

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20) and 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	52	5260 MHz
40	5200 MHz	56	5280 MHz
44	5220 MHz	60	5300 MHz
48	5240 MHz	64	5320 MHz

4 channels are provided for 802.11n (HT40), 802.11ac (VHT40) and 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	54	5270 MHz
46	5230 MHz	62	5310 MHz

2 channels are provided for 802.11ac (VHT80) and 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

1 straddle channel is provided for 802.11ac (VHT160), 802.11ax (HE160):

Channel	Frequency
50	5250 MHz

#### FOR 5500 ~ 5720 MHz

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20) and 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n (HT40), 802.11ac (VHT40) and 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels are provided for 802.11ac (VHT80) and 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	138	5690 MHz
122	5610 MHz		

1 straddle channel is provided for 802.11ac (VHT160), 802.11ax (HE160):

Channel	Frequency
114	5570 MHz

**FOR 5745 ~ 5825 MHz:**

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20) and 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40) and 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80) and 802.11ax (HE80):

Channel	Frequency
155	5775 MHz

### 3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. The AC Adapter has the following models: ADS-40FPA-12/2ABL030F 1 NA. Pre-scan these models of AC Adapters and find the worst case as a representative test condition. 2. EUT can be used in the following ways: Lying/ Wall Mount. Pre-scan in these ways and find the worst case as a representative test condition.
Worst Case:	1. AC Adapter Worst Condition: ADS-40FPA-12 2. Lying/ Wall Mount Worst Condition: Lying 3. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below:

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
AC Power Conducted Emissions	A,B,C	802.11ax (HE20)	CDD	40	BPSK	MCS0
Unwanted Emissions below 1 GHz	A,B,C	802.11ax (HE20)	CDD	40	BPSK	MCS0
Unwanted Emissions above 1 GHz	A,B	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
RF Output Power	A,B	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD & Beamforming	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD & Beamforming	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD & Beamforming	50, 114	BPSK	MCS0

Power Spectral Density	A,B	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
Occupied Bandwidth	A,B	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
26 dB Bandwidth	A,B	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD	50, 114	BPSK	MCS0



6 dB Bandwidth	A,B	802.11a	CDD	144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	138, 155	BPSK	MCS0
Frequency Stability	A,B	802.11a	-	36	un-modulation	-
EUT Configure Mode:	A	RAX50v2				
	B	RAX43v2				
	C	XR1000v2				

### 3.5 Duty Cycle of Test Signal

#### Mode A

Duty cycle of test signal is  $\geq 98\%$ , duty factor is not required.

Duty cycle of test signal is  $< 98\%$ , duty factor shall be considered.

**802.11a:** Duty cycle =  $1.48 \text{ ms} / 1.507 \text{ ms} \times 100\% = 98.2\%$

**802.11ax (HE20):** Duty cycle =  $1.146 \text{ ms} / 1.165 \text{ ms} \times 100\% = 98.4\%$

**802.11ax (HE40):** Duty cycle =  $1.187 \text{ ms} / 1.205 \text{ ms} \times 100\% = 98.5\%$

**802.11ax (HE80):** Duty cycle =  $1.223 \text{ ms} / 1.246 \text{ ms} \times 100\% = 98.2\%$

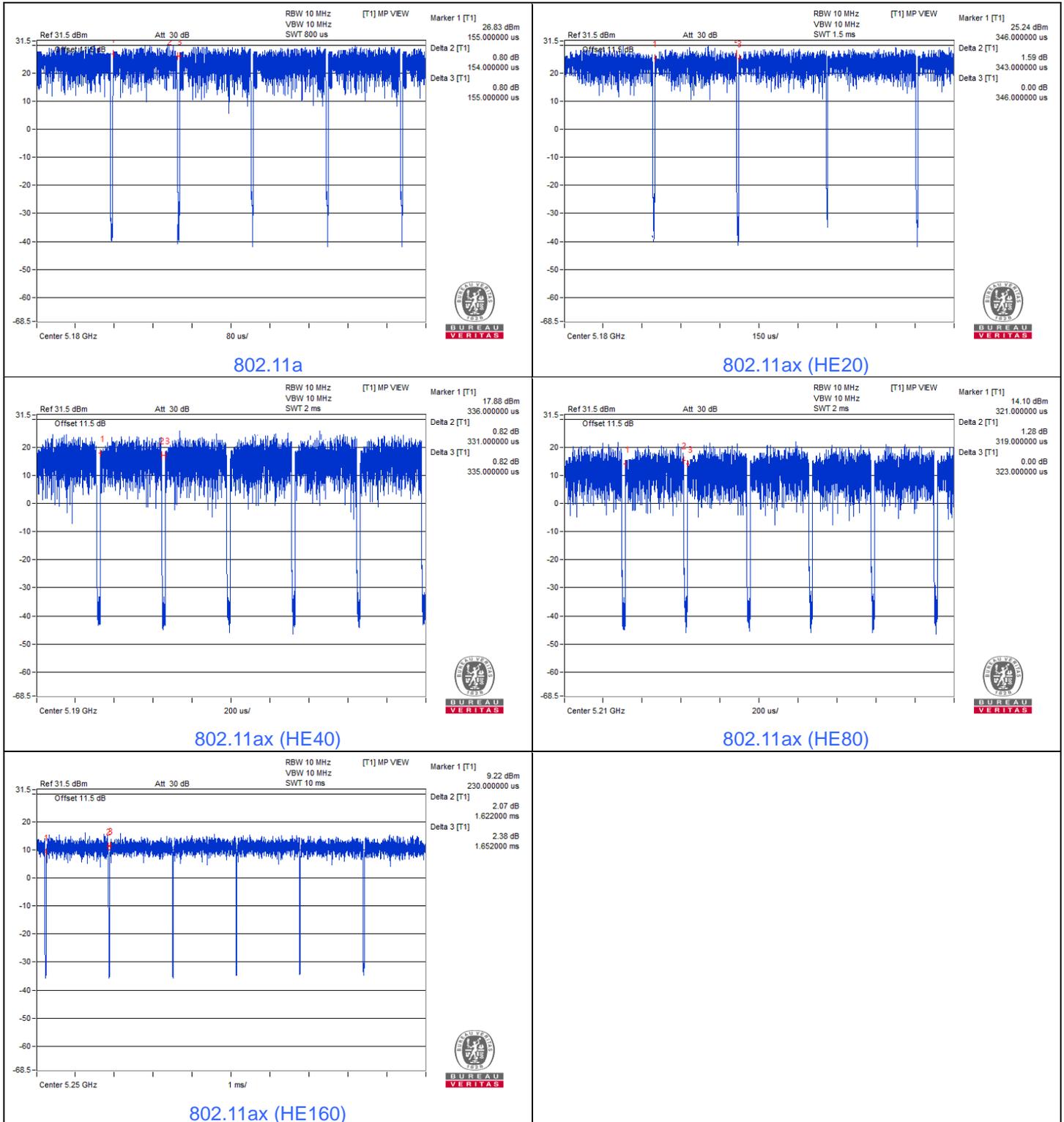
**802.11ax (HE160):** Duty cycle =  $1.224 \text{ ms} / 1.246 \text{ ms} \times 100\% = 98.2\%$



**Mode B**

Duty cycle of test signal is  $\geq 98\%$ , duty factor is not required.  
 Duty cycle of test signal is  $< 98\%$ , duty factor shall be considered.

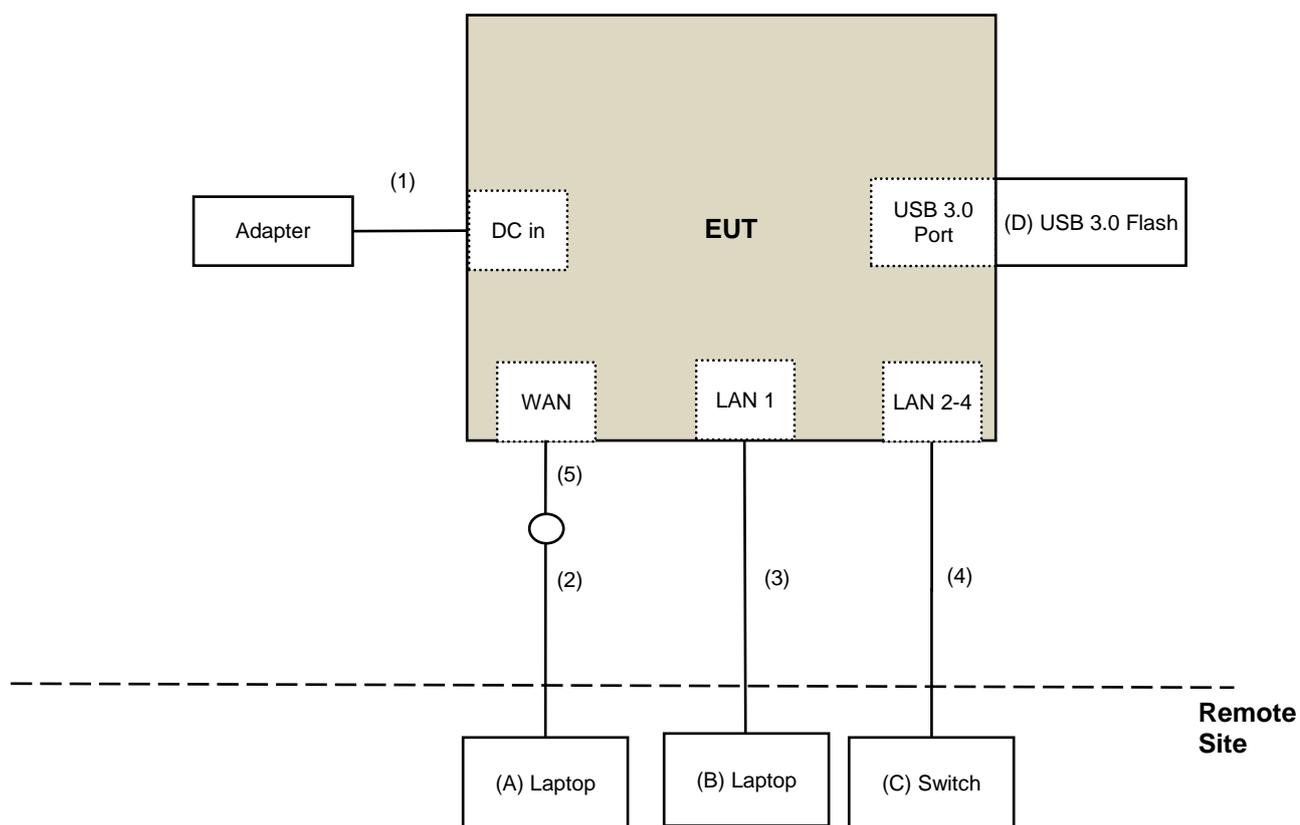
- 802.11a:** Duty cycle =  $0.154 \text{ ms} / 0.155 \text{ ms} \times 100\% = 99.4\%$
- 802.11ax (HE20):** Duty cycle =  $0.343 \text{ ms} / 0.346 \text{ ms} \times 100\% = 99.1\%$
- 802.11ax (HE40):** Duty cycle =  $0.331 \text{ ms} / 0.335 \text{ ms} \times 100\% = 98.8\%$
- 802.11ax (HE80):** Duty cycle =  $0.319 \text{ ms} / 0.323 \text{ ms} \times 100\% = 98.8\%$
- 802.11ax (HE160):** Duty cycle =  $1.622 \text{ ms} / 1.652 \text{ ms} \times 100\% = 98.2\%$



### 3.6 Test Program Used and Operation Descriptions

Controlling software (accessMTool\_REL\_3\_1\_0\_1) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

### 3.7 Connection Diagram of EUT and Peripheral Devices



### 3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	Lenovo	20U5S01X00 L14	PF-28LKK7	N/A	Provided by Lab
B	Laptop	Lenovo	20U5S01X00 L14	PF-1ANPYA	N/A	Provided by Lab
C	Switch	D-Link	DGS-1005D	DR8WC92000523	N/A	Provided by Lab
D	USB 3.0 Flash	Transcend	JetFlash 700	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.8	No	0	Supplied by applicant
2	RJ-45 Cable	1	10	No	0	Provided by Lab
3	RJ-45 Cable	1	10	No	0	Provided by Lab
4	RJ-45 Cable	3	10	No	0	Provided by Lab
5	RJ-45 Cable	1	1.8	No	0	Supplied by applicant

## 4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2021/4/13	2022/4/12
			2022/4/5	2023/4/4
Power Meter Anritsu	ML2495A	1529002	2021/6/21	2022/6/20
Pulse Power Sensor Anritsu	MA2411B	1339443	2021/5/31	2022/5/30
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100964	2021/5/31	2022/5/30

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2022/3/22 ~ 2022/5/3

### 4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2021/4/13	2022/4/12
			2022/4/5	2023/4/4
Power Meter Anritsu	ML2495A	1529002	2021/6/21	2022/6/20
Pulse Power Sensor Anritsu	MA2411B	1339443	2021/5/31	2022/5/30
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100964	2021/5/31	2022/5/30

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2022/3/22 ~ 2022/5/3

#### 4.3 Power Spectral Density

Refer to section 4.1 to get information of the instruments.

#### 4.4 6 dB Bandwidth

Refer to section 4.1 to get information of the instruments.

#### 4.5 Occupied Bandwidth

Refer to section 4.1 to get information of the instruments.

#### 4.6 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
AC Power Source GOOD WILL	6905S	1991551	N/A	N/A
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2021/4/13 2022/4/5	2022/4/12 2023/4/4
DC POWER SUPPLY Topward	6603D	795558	N/A	N/A
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100964	2021/5/31	2022/5/30
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	2022/1/14	2023/1/13
True RMS Clamp Meter Fluke	325	31130711WS	2021/6/2	2022/6/1

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2022/3/22 ~ 2022/5/3

#### 4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohms Terminator	50	3	2021/10/27	2022/10/26
Fixed attenuator STI	STI02-2200-10	005	2021/8/27	2022/8/26
LISN R&S	ESH3-Z5	848773/004	2021/10/29	2022/10/28
RF Coaxial Cable JYEBO	5D-FB	COCCAB-001	2021/9/25	2022/9/24
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A
TEST RECEIVER R&S	ESCS 30	847124/029	2021/10/13	2022/10/12

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2022/4/1 ~ 2022/4/28

#### 4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-03	2022/1/10	2023/1/9
Loop Antenna TESEQ	HLA 6121	45745	2021/7/21	2022/7/20
LOOP ANTENNA Electro-Metrics	EM-6879	264	2022/3/18	2023/3/17
Pre_Amplifier EMCI	EMC001340	980142	2021/5/24	2022/5/23
	EMC330N	980701	2022/3/8	2023/3/7
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-001	2022/1/6	2023/1/5
		LOOPCAB-002	2022/1/6	2023/1/5
RF Coaxial Cable COMMATE/PEWC	8D	966-4-1	2022/3/8	2023/3/7
		966-4-2	2022/3/8	2023/3/7
		966-4-3	2022/3/8	2023/3/7
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Test Receiver Agilent	N9038A	MY51210202	2021/11/19	2022/11/18
Trilog Broadband Antenna Schwarzbeck	VULB 9168	9168-406	2021/10/27	2022/10/26

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2022/4/1 ~ 2022/4/28

#### 4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-783	2021/11/14	2022/11/13
	BBHA 9170	9170-739	2021/11/14	2022/11/13
Pre_Amplifier EMCI	EMC 12630 SE	980638	2021/4/7	2022/4/6
	EMC184045SE	980387	2021/1/11	2022/1/10
	EMC184045SE	980387	2022/1/10	2023/1/9
RF Cable-Frequency Range : 1- 26.5GHz EMCI	EMC104-SM-SM-1200	160922	2021/12/24	2022/12/23
RF Cable-Frequency range: 1- 40GHz EMCI	EMC102-KM-KM-1200	160924	2021/1/11	2022/1/10
	EMC102-KM-KM-1200	160924	2022/1/10	2023/1/9
RF Coaxial Cable EMCI	EMC104-SM-SM-2000	180502	2021/4/26	2022/4/25
	EMC104-SM-SM-6000	210704	2021/11/9	2022/11/8
	EMC-KM-KM-4000	200214	2021/3/10	2022/3/9
	EMC-KM-KM-4000	200214	2022/3/8	2023/3/7
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Test Receiver Agilent	N9038A	MY51210202	2021/11/19	2022/11/18

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2022/1/7 ~ 2022/3/31

## 5 Limits of Test Items

### 5.1 26 dB Bandwidth

The results are for reference only.

### 5.2 RF Output Power

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
	Fixed point-to-point Access Point	1 Watt (30 dBm)
	Indoor Access Point	1 Watt (30 dBm)
	Mobile and Portable client device	250mW (24 dBm)

Operation Band	Limit
U-NII-2A	250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	1 Watt (30 dBm)

\*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

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

Array Gain = 0 dB (i.e., no array gain) for channel widths  $\geq 40$  MHz for any  $N_{ANT}$ ;

Array Gain = 5 log( $N_{ANT}/N_{SS}$ ) dB or 3 dB, whichever is less, for 20-MHz channel widths with  $N_{ANT} \geq 5$ .

For power measurements on all other devices: Array Gain = 10 log( $N_{ANT}/N_{SS}$ ) dB.

### 5.3 Power Spectral Density

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	17 dBm/ MHz
	Fixed point-to-point Access Point	
	Indoor Access Point	
	Mobile and Portable client device	11 dBm/ MHz

Operation Band	Limit
U-NII-2A	11 dBm/ MHz
U-NII-2C	11 dBm/ MHz
U-NII-3	30 dBm/ 500 kHz

### 5.4 6 dB Bandwidth

Within the 5.725-5.850 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

## 5.5 Occupied Bandwidth

The results are for reference only.

## 5.6 Frequency Stability

The frequency of the carrier signal shall be maintained within band of operation.

## 5.7 AC Power Conducted Emissions

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

## 5.8 Unwanted Emissions below 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (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

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

## 5.9 Unwanted Emissions above 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

### Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

### Limits of unwanted emission out of the restricted bands

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3 m	
		PK: 74 (dBµV/m)	AV: 54 (dBµV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
5150~5250 MHz	15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBµV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	15.407(b)(4)(i)	PK: -27 (dBm/MHz) <sup>*1</sup> PK: 10 (dBm/MHz) <sup>*2</sup> PK: 15.6 (dBm/MHz) <sup>*3</sup> PK: 27 (dBm/MHz) <sup>*4</sup>	PK: 68.2 (dBµV/m) <sup>*1</sup> PK: 105.2 (dBµV/m) <sup>*2</sup> PK: 110.8 (dBµV/m) <sup>*3</sup> PK: 122.2 (dBµV/m) <sup>*4</sup>
*1 beyond 75 MHz or more above of the band edge.		*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.	
*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.		*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

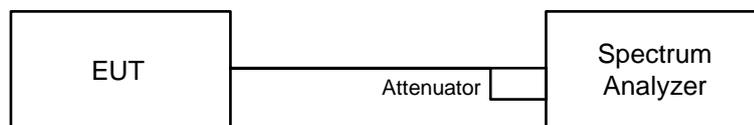
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

## 6 Test Arrangements

### 6.1 26 dB Bandwidth

#### 6.1.1 Test Setup

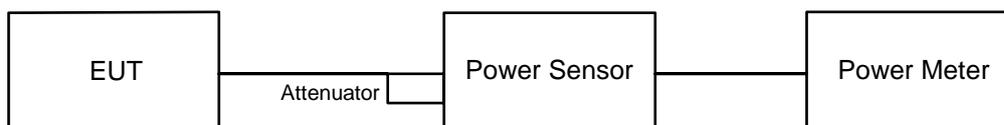


#### 6.1.2 Test Procedure

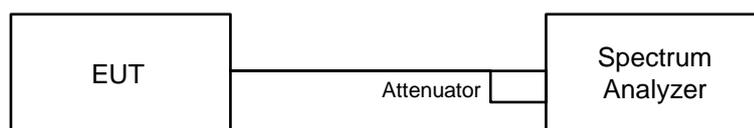
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

### 6.2 RF Output Power

#### 6.2.1 Test Setup



#### For channel straddling:



#### 6.2.2 Test Procedure

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to average. Duty factor is not added to measured value.

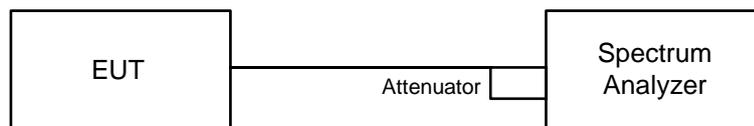
#### For channel straddling:

##### Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
- Sweep points ≥  $[2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing ≤ RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Record the max value

## 6.3 Power Spectral Density

### 6.3.1 Test Setup



### 6.3.2 Test Procedure

#### For specified measurement bandwidth 1 MHz:

##### Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW  $\geq$  3 MHz, Detector = RMS
- Sweep points  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\leq$  RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

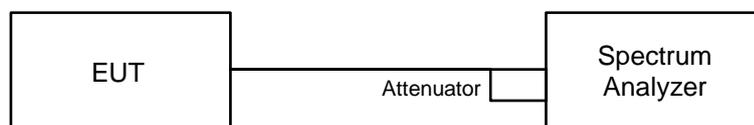
#### For specified measurement bandwidth 500 kHz:

##### Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW  $\geq$  1 MHz, Detector = RMS
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where  $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points  $\geq [2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing  $\leq$  RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

## 6.4 6 dB Bandwidth

### 6.4.1 Test Setup

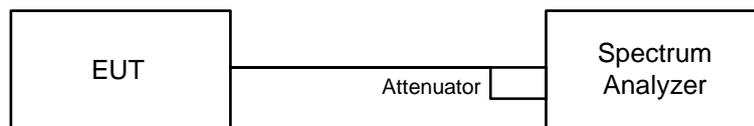


### 6.4.2 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz.
- Set the video bandwidth (VBW)  $\geq$  3 x RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

## 6.5 Occupied Bandwidth

### 6.5.1 Test Setup

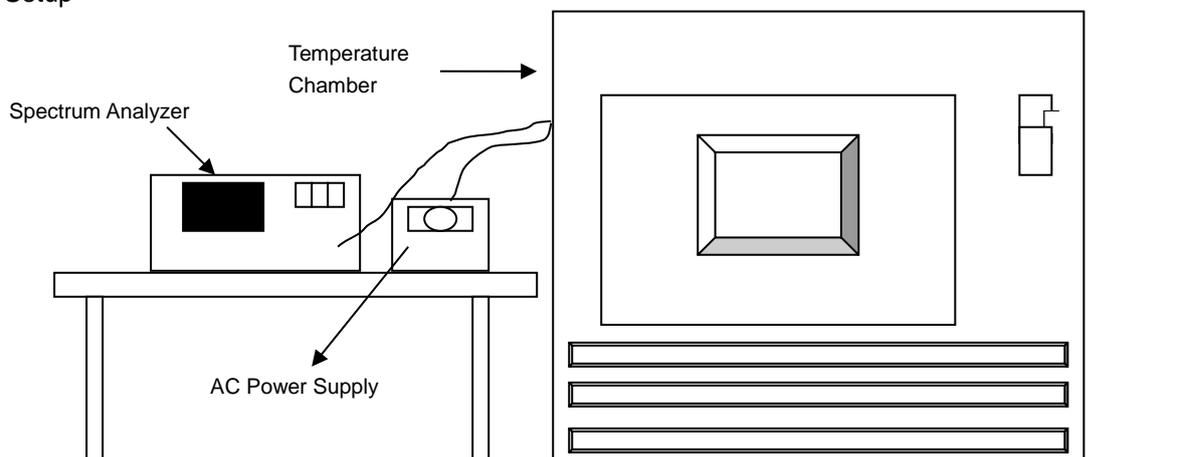


### 6.5.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

## 6.6 Frequency Stability

### 6.6.1 Test Setup

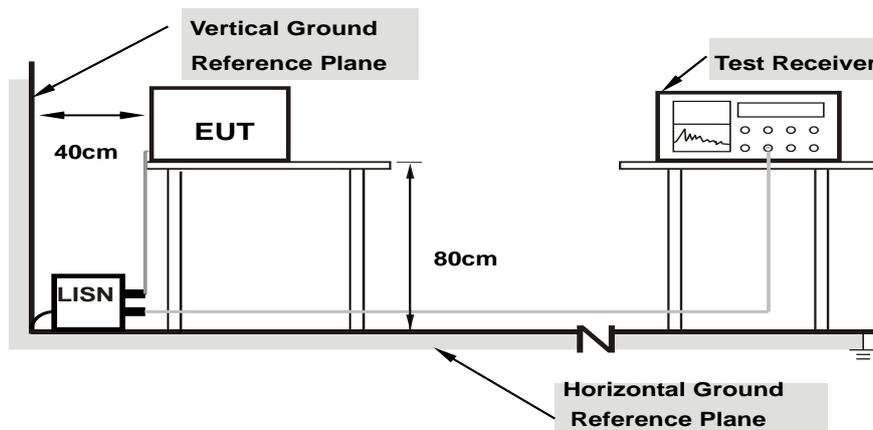


### 6.6.2 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

## 6.7 AC Power Conducted Emissions

### 6.7.1 Test Setup



**Note: 1. Support units were connected to second LISN.**

For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 6.7.2 Test Procedure

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

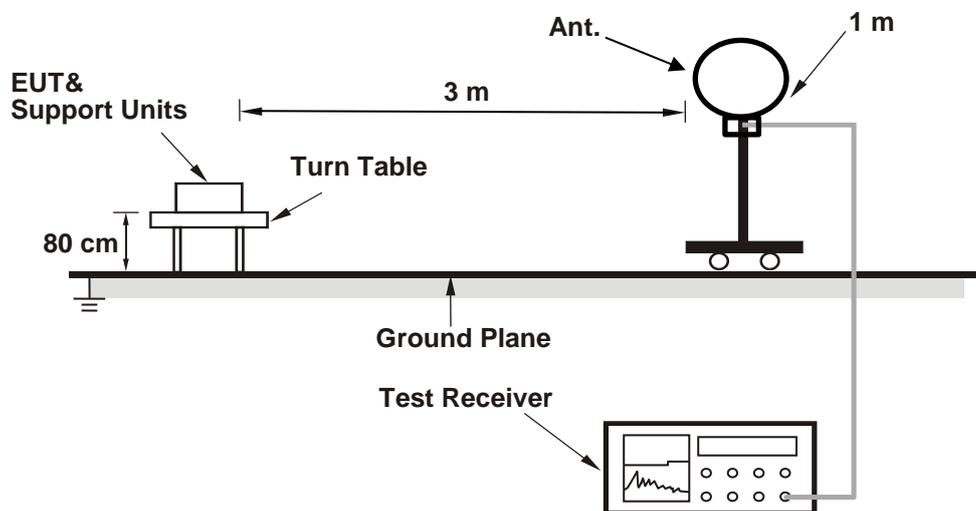
**Note:**

The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

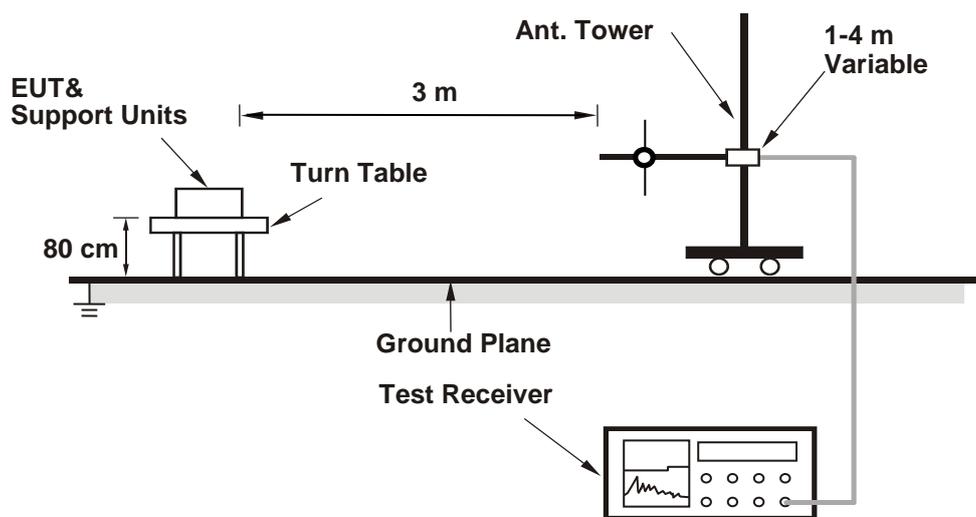
## 6.8 Unwanted Emissions below 1 GHz

### 6.8.1 Test Setup

#### For Radiated emission below 30 MHz



#### For Radiated emission above 30 MHz



## 6.8.2 Test Procedure

### For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

#### Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

### For Radiated emission above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

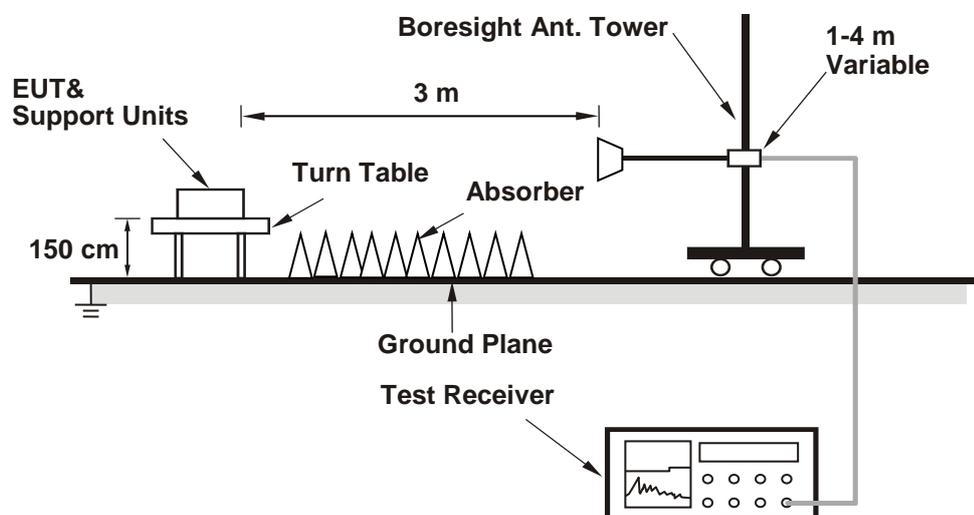
#### Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

## 6.9 Unwanted Emissions above 1 GHz

### 6.9.1 Test Setup

#### For Radiated emission above 1 GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 6.9.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

#### Notes:

- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10 Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

## 7 Test Results of Test Item

### 7.1 26 dB Bandwidth

#### Mode A

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	23 °C, 66 % RH	Tested By:	Eric Peng
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#### 802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	21.92	21.71	21.93	21.94
60	5300	21.83	22.09	21.87	21.71
64	5320	21.92	21.92	21.88	21.8
100	5500	21.93	21.82	21.86	21.73
116	5580	21.94	21.97	21.78	21.63
140	5700	21.79	21.84	21.88	21.74
144 (U-NII-2C)	5720	15.95	15.95	15.92	15.93

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	21.71	24.36 > 24
60	5300	21.71	24.36 > 24
64	5320	21.8	24.38 > 24
100	5500	21.73	24.37 > 24
116	5580	21.63	24.35 > 24
140	5700	21.74	24.37 > 24
144 (U-NII-2C)	5720	15.92	23.01 < 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

**802.11ax (HE20)**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	22.03	21.79	21.98	21.98
60	5300	22.09	21.87	21.97	22.01
64	5320	22.14	21.9	21.94	21.99
100	5500	22.19	21.97	21.9	21.9
116	5580	22.22	21.99	21.99	21.68
140	5700	22.12	21.83	21.94	21.97
144 (U-NII-2C)	5720	16.01	15.9	15.86	16.06

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	21.79	24.38 > 24
60	5300	21.87	24.39 > 24
64	5320	21.9	24.4 > 24
100	5500	21.9	24.4 > 24
116	5580	21.68	24.36 > 24
140	5700	21.83	24.39 > 24
144 (U-NII-2C)	5720	15.86	23 < 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

**802.11ax (HE40)**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
54	5270	42.24	41.67	42.11	41.98
62	5310	41.62	41.57	41.8	41.96
102	5510	42.14	41.73	41.6	41.88
110	5550	41.93	41.79	41.83	41.78
134	5670	41.76	42.07	42.02	41.85
142 (U-NII-2C)	5710	36.11	35.77	35.78	35.96

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	41.67	27.19 > 24
62	5310	41.57	27.18 > 24
102	5510	41.6	27.19 > 24
110	5550	41.78	27.2 > 24
134	5670	41.76	27.2 > 24
142 (U-NII-2C)	5710	35.77	26.53 > 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

**802.11ax (HE80)**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	83.07	82.97	82.84	82.66
106	5530	83.26	82.84	82.95	82.9
122	5610	82.86	82.98	82.69	82.86
138 (U-NII-2C)	5690	76.39	76.22	76.47	76.46

Determined Output Power Limit				
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)	
58	5290	82.66	30.17	> 24
106	5530	82.84	30.18	> 24
122	5610	82.69	30.17	> 24
138 (U-NII-2C)	5690	76.22	29.82	> 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

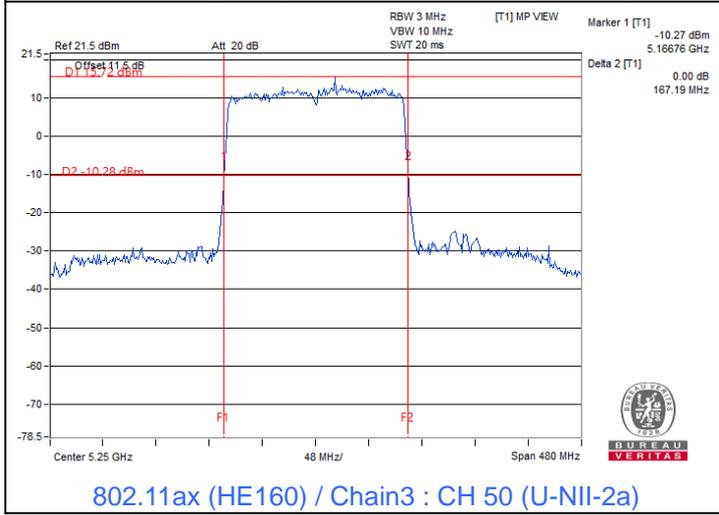
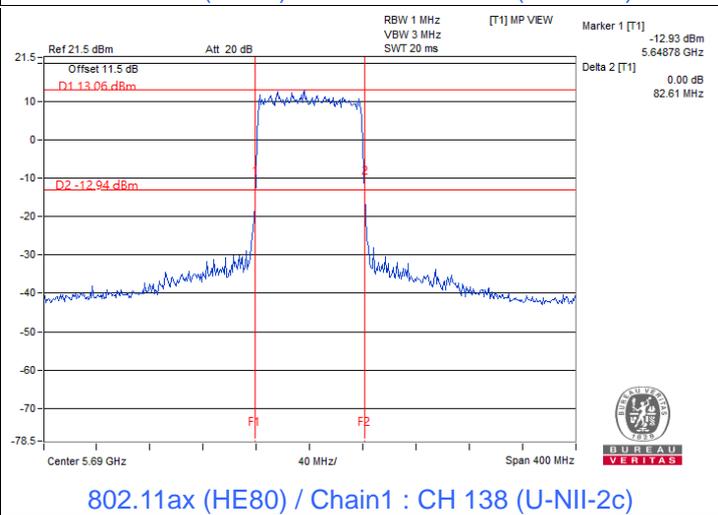
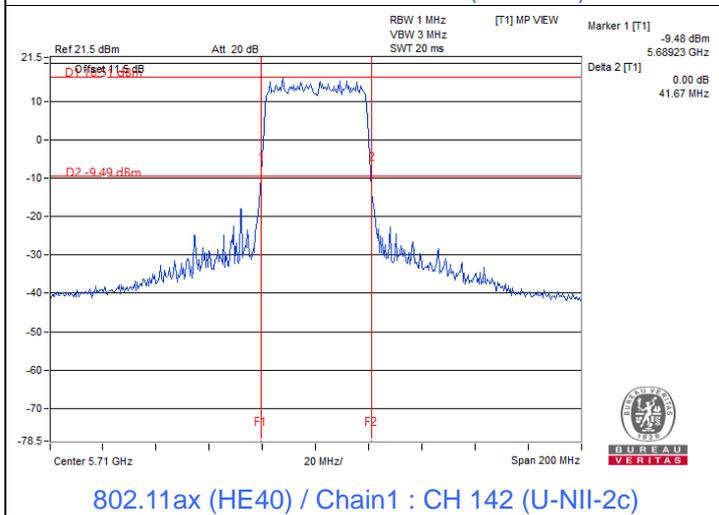
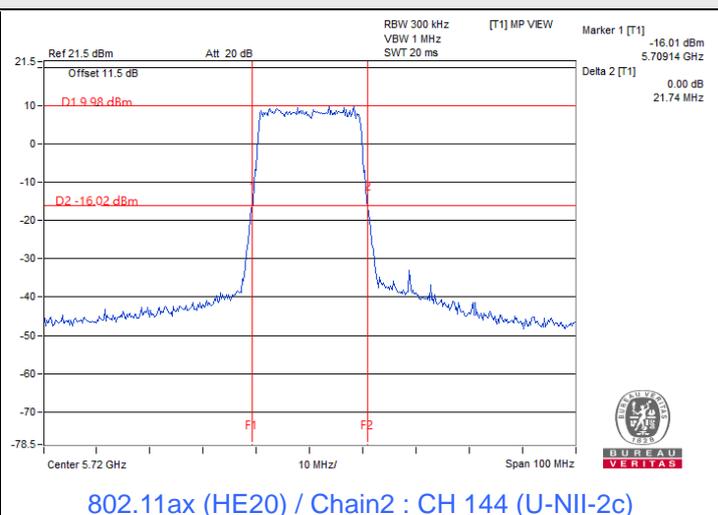
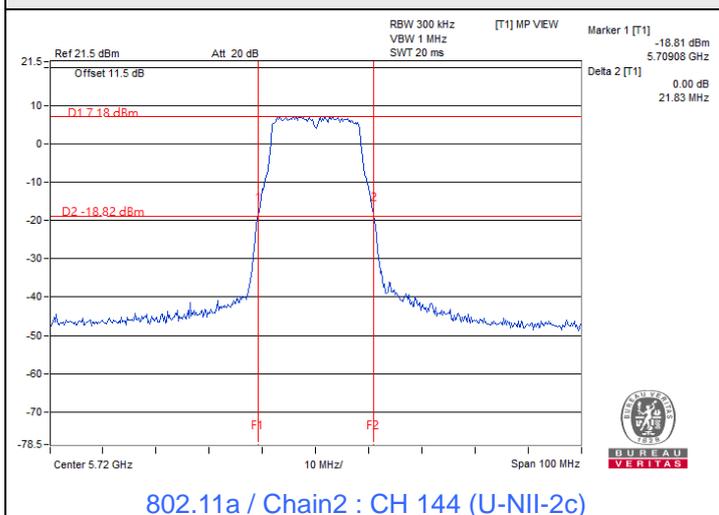
**802.11ax (HE160)**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-2A)	5250	84.7	84.12	84.04	83.95
114	5570	168.7	168.03	168.07	168.43

Determined Output Power Limit				
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)	
50 (U-NII-2A)	5250	83.95	30.24	> 24
114	5570	168.03	33.25	> 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### Spectrum Plot of Minimum Value



Notes:

1. For U-NII-2C straddle channel = 5725MHz - Marker 1
2. For U-NII-2A straddle channel = Marker 1 + Delta 2 - 5250MHz

**Mode B**

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Eric Peng
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**802.11a**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
52	5260	21.81	21.82	21.47
60	5300	21.8	21.84	21.39
64	5320	21.84	22.13	21.51
100	5500	21.64	21.7	21.49
116	5580	21.8	21.75	21.55
140	5700	21.71	21.89	21.48
144 (U-NII-2C)	5720	15.8	15.92	15.6

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	21.47	24.31 > 24
60	5300	21.39	24.3 > 24
64	5320	21.51	24.32 > 24
100	5500	21.49	24.32 > 24
116	5580	21.55	24.33 > 24
140	5700	21.48	24.32 > 24
144 (U-NII-2C)	5720	15.6	22.93 < 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

**802.11ax (HE20)**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
52	5260	22.02	21.98	22.01
60	5300	22.07	21.75	21.92
64	5320	21.87	21.88	21.95
100	5500	21.79	22.13	21.67
116	5580	21.96	21.83	21.86
140	5700	21.91	22.06	21.88
144 (U-NII-2C)	5720	15.89	15.82	15.78

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	21.98	24.42 > 24
60	5300	21.75	24.37 > 24
64	5320	21.87	24.39 > 24
100	5500	21.67	24.35 > 24
116	5580	21.83	24.39 > 24
140	5700	21.88	24.4 > 24
144 (U-NII-2C)	5720	15.78	22.98 < 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

**802.11ax (HE40)**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
54	5270	41.96	42.26	41.97
62	5310	41.95	42.35	41.87
102	5510	42.23	41.85	42.06
110	5550	42.08	42	42.06
134	5670	42.13	41.99	42.38
142 (U-NII-2C)	5710	36.07	35.95	36.09

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	41.96	27.22 > 24
62	5310	41.87	27.21 > 24
102	5510	41.85	27.21 > 24
110	5550	42	27.23 > 24
134	5670	41.99	27.23 > 24
142 (U-NII-2C)	5710	35.95	26.55 > 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

**802.11ax (HE80)**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
58	5290	83.07	82.53	82.45
106	5530	83.1	83.1	83.14
122	5610	82.69	82.98	82.53
138 (U-NII-2C)	5690	76.6	76.31	76.42

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	82.45	30.16 > 24
106	5530	83.1	30.19 > 24
122	5610	82.53	30.16 > 24
138 (U-NII-2C)	5690	76.31	29.82 > 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

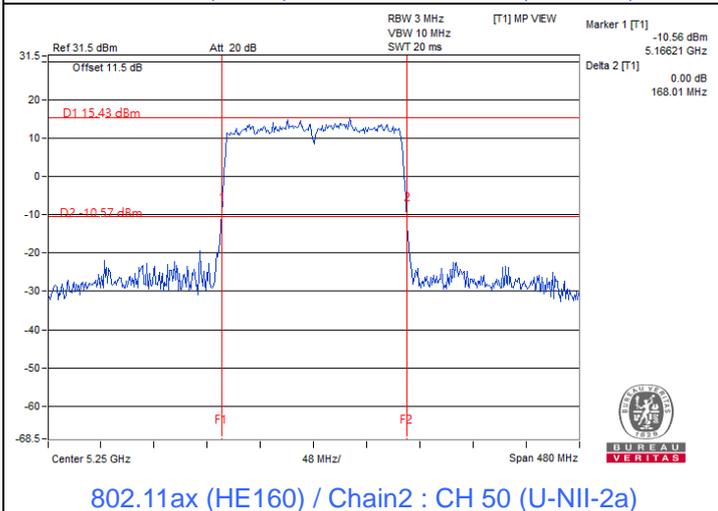
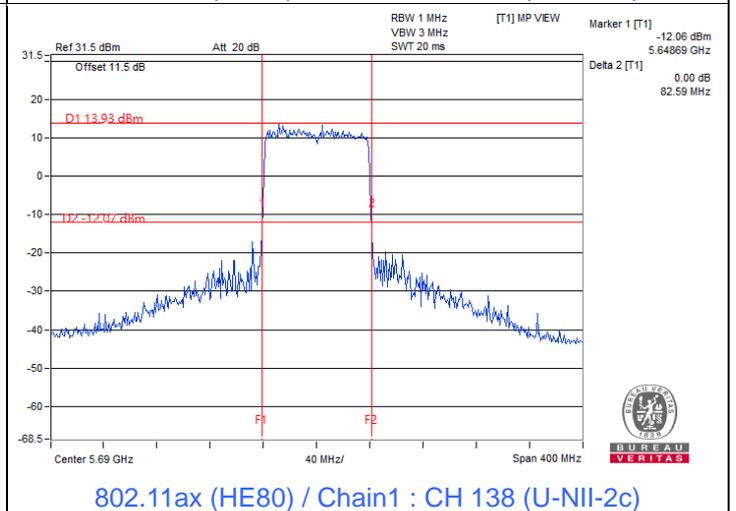
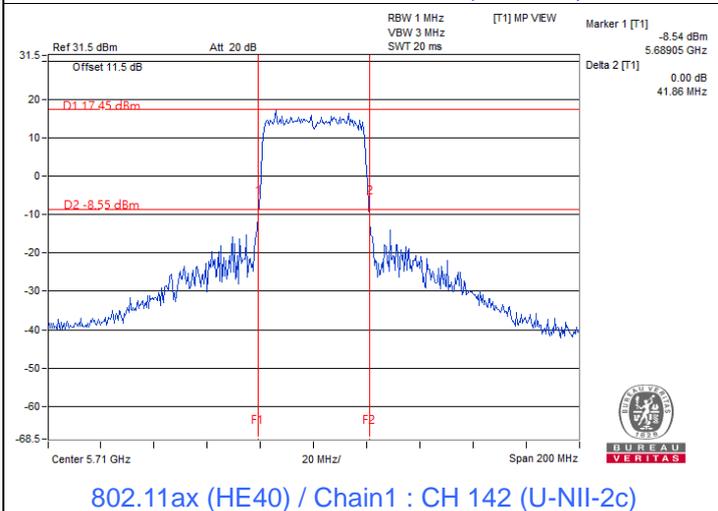
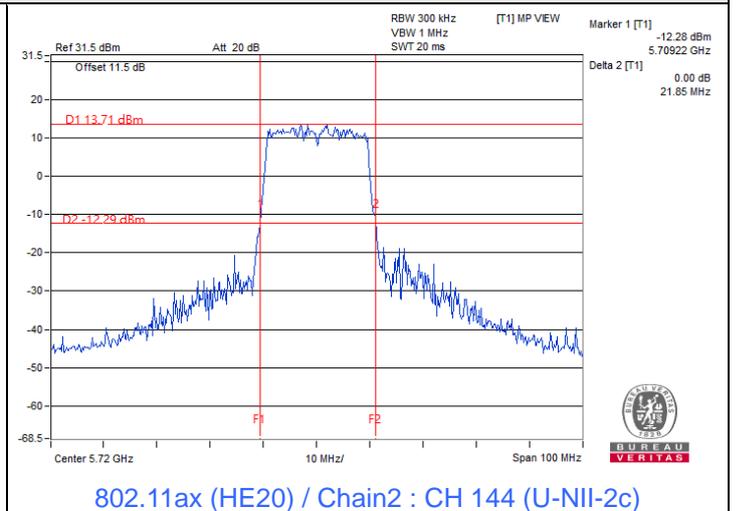
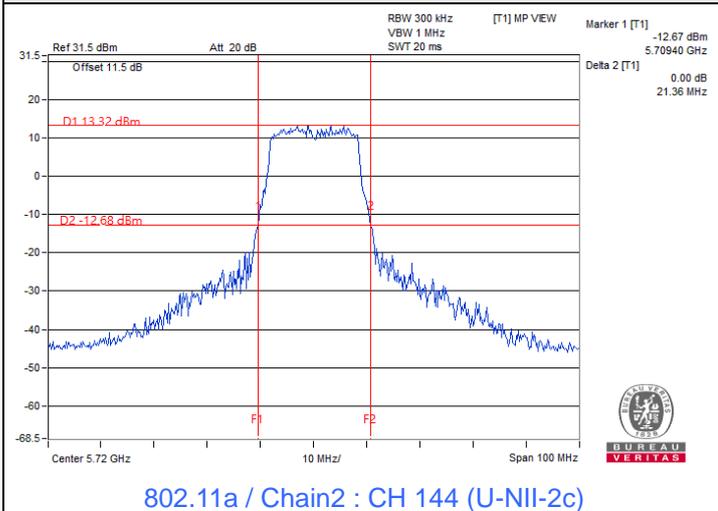
**802.11ax (HE160)**

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
50 (U-NII-2A)	5250	84.69	83.84	83.79
114	5570	168.95	168.53	168.62

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
50 (U-NII-2A)	5250	83.79	30.23 > 24
114	5570	168.53	33.26 > 24

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.

### Spectrum Plot of Minimum Value



Notes:

1. For U-NII-2C straddle channel = 5725MHz - Marker 1
2. For U-NII-2A straddle channel = Marker 1 + Delta 2 - 5250MHz

## 7.2 RF Output Power

### Mode A

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	23 °C, 66 % RH	Tested By:	Eric Peng
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### 802.11a CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	22.64	22.23	23.33	22.68	751.394	28.76	30	Pass
40	5200	23.35	22.97	23.88	23.03	859.677	29.34	30	Pass
48	5240	23.37	22.95	23.90	23.01	859.969	29.34	30	Pass
52	5260	17.45	16.94	17.22	17.14	209.505	23.21	24	Pass
60	5300	17.49	17.02	17.24	17.03	209.887	23.22	24	Pass
64	5320	17.47	16.96	17.33	17.02	209.932	23.22	24	Pass
100	5500	16.53	16.91	17.42	16.98	199.165	22.99	24	Pass
116	5580	16.60	17.06	17.57	17.05	204.372	23.10	24	Pass
140	5700	16.63	17.04	17.54	17.07	204.296	23.10	24	Pass
*144 (U-NII-2C)	5720	16.23	16.43	15.06	15.15	150.727	21.78	23.01	Pass
*144 (U-NII-3)	5720	9.26	10.23	8.78	8.64	33.84	15.29	30	Pass
149	5745	23.09	23.56	24.12	23.37	906.187	29.57	30	Pass
157	5785	23.32	23.22	24.47	23.63	935.25	29.71	30	Pass
165	5825	23.43	23.35	24.29	23.69	938.983	29.73	30	Pass

#### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.84 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.04 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.23 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 2.91 dBi < 6 dBi, so the output power limit shall not be reduced.

## 802.11ax (HE20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	22.14	21.33	20.96	21.03	551.017	27.41	30	Pass
40	5200	23.73	23.03	23.95	23.54	911.214	29.60	30	Pass
48	5240	23.71	23.06	23.97	23.50	910.597	29.59	30	Pass
52	5260	17.67	17.42	17.79	17.20	226.285	23.55	24	Pass
60	5300	17.69	17.32	17.67	17.22	223.902	23.50	24	Pass
64	5320	17.73	17.14	17.98	17.83	234.533	23.70	24	Pass
100	5500	17.07	17.36	17.95	18.04	231.436	23.64	24	Pass
116	5580	17.21	17.16	17.70	17.86	224.58	23.51	24	Pass
140	5700	17.20	17.20	17.73	17.73	223.547	23.49	24	Pass
*144 (U-NII-2C)	5720	16.76	16.24	16.87	16.27	180.502	22.56	23	Pass
*144 (U-NII-3)	5720	11.28	11.10	11.61	10.91	53.129	17.25	30	Pass
149	5745	23.11	23.21	24.47	23.83	935.5	29.71	30	Pass
157	5785	23.32	23.63	24.13	23.55	930.743	29.69	30	Pass
165	5825	23.25	23.96	23.89	23.96	954.027	29.80	30	Pass

## Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.84 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.04 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.23 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 2.91 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	20.44	19.65	18.85	19.36	365.954	25.63	30	Pass
46	5230	23.52	23.26	23.66	23.34	884.79	29.47	30	Pass
54	5270	17.58	16.87	17.55	17.20	215.286	23.33	24	Pass
62	5310	16.85	16.85	16.86	16.68	191.922	22.83	24	Pass
102	5510	16.91	16.71	16.48	16.44	184.491	22.66	24	Pass
110	5550	17.74	17.11	17.74	17.23	223.107	23.49	24	Pass
134	5670	17.75	17.14	17.73	17.30	224.323	23.51	24	Pass
*142 (U-NII-2C)	5710	17.39	16.72	17.29	16.63	201.422	23.04	24	Pass
*142 (U-NII-3)	5710	7.36	7.02	7.61	6.71	20.936	13.21	30	Pass
151	5755	23.02	22.72	24.35	24.15	919.802	29.64	30	Pass
159	5795	23.19	22.91	24.46	23.86	926.358	29.67	30	Pass

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.84 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.04 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.23 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 2.91 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	21.44	20.54	19.96	20.43	462.047	26.65	30	Pass
58	5290	18.51	18.77	16.95	17.14	247.599	23.94	24	Pass
106	5530	18.56	18.03	17.31	17.39	243.967	23.87	24	Pass
122	5610	17.67	17.12	17.73	17.30	222.998	23.48	24	Pass
*138 (U-NII-2C)	5690	17.16	16.69	17.44	16.57	199.522	23.00	24	Pass
*138 (U-NII-3)	5690	3.15	3.24	4.04	2.74	8.588	9.34	30	Pass
155	5775	23.46	23.36	22.81	22.61	811.965	29.10	30	Pass

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.84 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.04 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.23 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 2.91 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1)	5250	14.97	15.36	14.63	14.07	120.328	20.80	30	Pass
*50 (U-NII-2A)	5250	15.35	15.15	14.68	14.93	127.505	21.06	24	Pass
114	5570	17.45	17.88	17.01	16.36	210.452	23.23	24	Pass

**Notes:**

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.84 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.04 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.23 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	21.64	20.83	20.46	20.53	491.094	26.91	29.35	Pass
40	5200	23.46	22.64	23.96	23.05	856.196	29.33	29.35	Pass
48	5240	23.42	22.66	23.97	23.00	853.273	29.31	29.35	Pass
52	5260	17.23	16.97	17.38	16.78	204.963	23.12	23.31	Pass
60	5300	17.28	16.90	17.18	16.73	201.772	23.05	23.31	Pass
64	5320	17.20	16.70	17.58	17.23	209.378	23.21	23.31	Pass
100	5500	16.63	16.89	17.48	17.34	205.067	23.12	23.73	Pass
116	5580	16.75	16.73	17.28	17.39	202.697	23.07	23.73	Pass
140	5700	16.77	16.75	17.26	17.26	201.27	23.04	23.73	Pass
*144 (U-NII-2C)	5720	16.39	16.00	16.44	15.78	165.262	22.18	22.73	Pass
*144 (U-NII-3)	5720	10.89	10.84	11.15	10.47	48.583	16.86	29.43	Pass
149	5745	22.70	22.71	24.04	23.35	842.631	29.26	29.43	Pass
157	5785	22.88	23.22	23.67	23.07	839.56	29.24	29.43	Pass
165	5825	22.76	23.48	23.45	23.44	853.753	29.31	29.43	Pass

**Notes:**

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional Gain By Client.
- For U-NII-1, the directional gain is 6.65 dBi > 6 dBi, so the output power limit shall be reduced to  $30 - (6.65 - 6) = 29.35$  dBm.
- For U-NII-2A, the directional gain is 6.69 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.69 - 6)].
- For U-NII-2C, the directional gain is 6.27 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.27 - 6)].
- For U-NII-3, the directional gain is 6.57 dBi > 6 dBi, so the output power limit shall be reduced to  $30 - (6.57 - 6) = 29.43$  dBm.

## 802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	19.74	18.95	18.15	18.66	311.477	24.93	29.35	Pass
46	5230	23.12	23.31	23.55	23.18	853.839	29.31	29.35	Pass
54	5270	17.48	16.77	17.45	17.10	210.386	23.23	23.31	Pass
62	5310	16.85	16.85	16.86	16.68	191.922	22.83	23.31	Pass
102	5510	16.91	16.71	16.48	16.44	184.491	22.66	23.73	Pass
110	5550	17.28	16.71	17.29	16.80	201.78	23.05	23.73	Pass
134	5670	17.32	16.66	17.26	16.89	202.372	23.06	23.73	Pass
*142 (U-NII-2C)	5710	17.02	16.59	16.85	16.40	188.023	22.74	23.73	Pass
*142 (U-NII-3)	5710	7.11	6.84	7.19	6.46	19.633	12.93	29.43	Pass
151	5755	22.61	22.32	23.87	23.67	829.588	29.19	29.43	Pass
159	5795	22.77	22.46	24.05	23.45	840.839	29.25	29.43	Pass

### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional Gain By Client.
- For U-NII-1, the directional gain is 6.65 dBi > 6 dBi, so the output power limit shall be reduced to  $30 - (6.65 - 6) = 29.35$  dBm.
- For U-NII-2A, the directional gain is 6.69 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.69 - 6)].
- For U-NII-2C, the directional gain is 6.27 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.27 - 6)].
- For U-NII-3, the directional gain is 6.57 dBi > 6 dBi, so the output power limit shall be reduced to  $30 - (6.57 - 6) = 29.43$  dBm.

### 802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	21.44	20.54	19.96	20.43	462.047	26.65	29.35	Pass
58	5290	17.95	17.94	16.34	16.58	213.155	23.29	23.31	Pass
106	5530	17.74	17.60	16.85	16.89	214.256	23.31	23.73	Pass
122	5610	17.24	16.62	17.30	16.87	201.23	23.04	23.73	Pass
*138 (U-NII-2C)	5690	16.92	16.36	17.13	16.29	186.657	22.71	23.73	Pass
*138 (U-NII-3)	5690	2.87	3.13	3.70	2.44	8.09	9.08	29.43	Pass
155	5775	23.46	23.36	22.81	22.61	811.965	29.10	29.43	Pass

**Notes:**

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional Gain By Client.
- For U-NII-1, the directional gain is 6.65 dBi > 6 dBi, so the output power limit shall be reduced to  $30-(6.65-6) = 29.35$  dBm.
- For U-NII-2A, the directional gain is 6.69 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.69-6)].
- For U-NII-2C, the directional gain is 6.27 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.27-6)].
- For U-NII-3, the directional gain is 6.57 dBi > 6 dBi, so the output power limit shall be reduced to  $30-(6.57-6) = 29.43$  dBm.

### 802.11ax (HE160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1)	5250	14.15	14.83	13.99	13.33	102.999	20.13	29.35	Pass
*50 (U-NII-2A)	5250	14.55	14.63	14.28	14.30	111.257	20.46	23.31	Pass
114	5570	17.45	17.88	17.01	16.36	210.452	23.23	23.73	Pass

**Notes:**

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional Gain By Client.
- For U-NII-1, the directional gain is 6.65 dBi > 6 dBi, so the output power limit shall be reduced to  $30-(6.65-6) = 29.35$  dBm.
- For U-NII-2A, the directional gain is 6.69 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.69-6)].
- For U-NII-2C, the directional gain is 6.27 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.27-6)].

## Mode B

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Eric Peng
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## 802.11a CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2				
36	5180	23.84	23.87	24.19	748.306	28.74	30	Pass
40	5200	25.15	24.15	24.25	853.429	29.31	30	Pass
48	5240	25.12	24.12	24.08	839.172	29.24	30	Pass
52	5260	18.53	18.81	18.69	221.278	23.45	24	Pass
60	5300	18.60	18.77	18.73	222.424	23.47	24	Pass
64	5320	18.57	18.85	18.65	221.964	23.46	24	Pass
100	5500	18.86	19.02	18.25	223.547	23.49	24	Pass
116	5580	18.83	19.06	18.27	224.064	23.50	24	Pass
140	5700	18.82	19.10	19.24	241.437	23.83	24	Pass
*144 (U-NII-2C)	5720	16.48	16.79	16.61	138.03	21.40	22.93	Pass
*144 (U-NII-3)	5720	10.11	10.75	10.58	33.57	15.26	30	Pass
149	5745	24.96	25.07	25.40	981.431	29.92	30	Pass
157	5785	24.93	25.19	25.32	981.949	29.92	30	Pass
165	5825	25.26	24.91	25.16	973.575	29.88	30	Pass

### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.84 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.04 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.23 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 2.91 dBi < 6 dBi, so the output power limit shall not be reduced.

## 802.11ax (HE20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2				
36	5180	23.03	22.23	22.36	540.205	27.33	30	Pass
40	5200	25.16	24.36	24.77	900.909	29.55	30	Pass
48	5240	25.14	24.29	24.76	894.349	29.52	30	Pass
52	5260	19.04	18.90	18.95	236.316	23.73	24	Pass
60	5300	19.06	18.94	18.97	237.767	23.76	24	Pass
64	5320	18.97	18.88	18.96	234.859	23.71	24	Pass
100	5500	18.93	18.94	19.13	238.352	23.77	24	Pass
116	5580	18.95	18.96	18.92	235.211	23.71	24	Pass
140	5700	18.88	18.89	18.94	233.057	23.67	24	Pass
*144 (U-NII-2C)	5720	16.75	16.56	16.43	136.559	21.35	22.98	Pass
*144 (U-NII-3)	5720	11.31	11.20	11.10	39.586	15.98	30	Pass
149	5745	24.94	24.97	25.13	951.777	29.79	30	Pass
157	5785	24.87	25.03	24.96	938.651	29.73	30	Pass
165	5825	25.00	24.86	25.06	943.051	29.75	30	Pass

### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.84 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.04 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.23 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 2.91 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2				
38	5190	21.24	20.57	20.68	364.02	25.61	30	Pass
46	5230	24.83	24.34	24.43	853.064	29.31	30	Pass
54	5270	18.98	19.05	19.09	240.517	23.81	24	Pass
62	5310	17.87	17.92	17.98	185.985	22.69	24	Pass
102	5510	17.81	17.85	17.94	183.579	22.64	24	Pass
110	5550	19.22	19.06	19.12	245.756	23.91	24	Pass
134	5670	19.13	19.04	19.05	242.367	23.84	24	Pass
*142 (U-NII-2C)	5710	17.03	17.22	17.07	154.122	21.88	24	Pass
*142 (U-NII-3)	5710	7.14	7.47	7.45	16.32	12.13	30	Pass
151	5755	25.06	25.14	25.03	965.635	29.85	30	Pass
159	5795	25.11	25.15	25.06	972.307	29.88	30	Pass

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.84 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.04 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.23 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 2.91 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2				
42	5210	21.32	21.46	21.49	416.407	26.20	30	Pass
58	5290	19.25	18.88	18.81	237.44	23.76	24	Pass
106	5530	19.02	19.08	19.11	242.179	23.84	24	Pass
122	5610	19.05	19.12	19.14	244.046	23.87	24	Pass
*138 (U-NII-2C)	5690	16.94	17.94	17.31	165.488	22.19	24	Pass
*138 (U-NII-3)	5690	3.24	4.48	3.98	7.414	8.70	30	Pass
155	5775	24.12	24.29	24.32	797.156	29.02	30	Pass

Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.84 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.04 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.23 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 2.91 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2				
*50 (U-NII-1)	5250	14.20	14.65	14.25	82.084	19.14	30	Pass
*50 (U-NII-2A)	5250	14.94	14.83	14.60	90.438	19.56	24	Pass
114	5570	18.32	18.44	18.45	207.728	23.17	24	Pass

#### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.84 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.04 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.23 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2				
36	5180	23.03	22.23	22.36	540.205	27.33	30	Pass
40	5200	25.16	24.36	24.77	900.909	29.55	30	Pass
48	5240	25.14	24.29	24.76	894.349	29.52	30	Pass
52	5260	18.55	18.87	18.94	227.048	23.56	23.6	Pass
60	5300	18.56	18.84	18.91	226.143	23.54	23.6	Pass
64	5320	18.57	18.81	18.92	225.961	23.54	23.6	Pass
100	5500	18.93	18.94	19.13	238.352	23.77	23.84	Pass
116	5580	18.95	18.96	18.92	235.211	23.71	23.84	Pass
140	5700	18.88	18.89	18.94	233.057	23.67	23.84	Pass
*144 (U-NII-2C)	5720	16.75	16.56	16.43	136.559	21.35	22.82	Pass
*144 (U-NII-3)	5720	11.31	11.20	11.10	39.586	15.98	29.82	Pass
149	5745	24.94	24.97	25.13	951.777	29.79	29.82	Pass
157	5785	24.87	25.03	24.96	938.651	29.73	29.82	Pass
165	5825	25.00	24.86	25.06	943.051	29.75	29.82	Pass

#### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 5.87 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 6.4 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.4-6)].
- For U-NII-2C, the maximum gain is 6.16 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.16-6)].
- For U-NII-3, the maximum gain is 6.18 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.18-6) = 29.82 dBm.

## 802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2				
38	5190	21.24	20.57	20.68	364.02	25.61	30	Pass
46	5230	24.83	24.34	24.43	853.064	29.31	30	Pass
54	5270	18.66	18.75	18.86	225.354	23.53	23.6	Pass
62	5310	17.87	17.92	17.98	185.985	22.69	23.6	Pass
102	5510	17.81	17.85	17.94	183.579	22.64	23.84	Pass
110	5550	19.02	18.96	19.12	240.162	23.81	23.84	Pass
134	5670	18.95	19.01	18.99	237.39	23.75	23.84	Pass
*142 (U-NII-2C)	5710	17.03	17.22	17.07	154.122	21.88	23.84	Pass
*142 (U-NII-3)	5710	7.14	7.47	7.45	16.32	12.13	29.82	Pass
151	5755	25.01	24.96	25.08	952.392	29.79	29.82	Pass
159	5795	25.03	24.98	25.07	954.561	29.80	29.82	Pass

### Notes:

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 5.87 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 6.4 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.4-6)].
- For U-NII-2C, the maximum gain is 6.16 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.16-6)].
- For U-NII-3, the maximum gain is 6.18 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.18-6) = 29.82 dBm.

### 802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2				
42	5210	21.32	21.46	21.49	416.407	26.20	30	Pass
58	5290	18.85	18.78	18.71	226.547	23.55	23.6	Pass
106	5530	18.92	19.03	19.08	238.876	23.78	23.84	Pass
122	5610	19.01	19.05	19.07	240.692	23.81	23.84	Pass
*138 (U-NII-2C)	5690	16.94	17.94	17.31	165.488	22.19	23.84	Pass
*138 (U-NII-3)	5690	3.24	4.48	3.98	7.414	8.70	29.82	Pass
155	5775	24.12	24.29	24.32	797.156	29.02	29.82	Pass

**Notes:**

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 5.87 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 6.4 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.4-6)].
- For U-NII-2C, the maximum gain is 6.16 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.16-6)].
- For U-NII-3, the maximum gain is 6.18 dBi > 6 dBi, so the output power limit shall be reduced to 30-(6.18-6) = 29.82 dBm.

### 802.11ax (HE160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)			Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2				
*50 (U-NII-1)	5250	14.20	14.65	14.25	82.084	19.14	30	Pass
*50 (U-NII-2A)	5250	14.94	14.83	14.60	90.438	19.56	23.6	Pass
114	5570	18.32	18.44	18.45	207.728	23.17	23.84	Pass

**Notes:**

- \* : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 5.87 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 6.4 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.4-6)].
- For U-NII-2C, the maximum gain is 6.16 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.16-6)].

### 7.3 Power Spectral Density

#### Mode A

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	23 °C, 66 % RH	Tested By:	Eric Peng
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#### 802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	10.40	9.99	9.83	10.21	16.13	16.35	Pass
40	5200	9.54	9.38	8.79	9.66	15.38	16.35	Pass
48	5240	9.60	9.39	9.14	9.74	15.49	16.35	Pass
52	5260	3.21	4.15	2.61	3.56	9.44	10.31	Pass
60	5300	3.25	4.05	2.59	3.54	9.41	10.31	Pass
64	5320	3.05	3.95	2.42	3.58	9.31	10.31	Pass
100	5500	3.97	4.63	3.39	3.57	9.94	10.73	Pass
116	5580	3.70	4.79	3.23	3.06	9.77	10.73	Pass
140	5700	3.84	4.71	3.13	3.76	9.92	10.73	Pass
144 (U-NII-2C)	5720	3.65	4.51	2.69	3.62	9.69	10.73	Pass

#### Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional Gain By Client.
- For U-NII-1, the directional gain is 6.65 dBi > 6dBi, so the power density limit shall be reduced to  $17-(6.65-6) = 16.35$  dBm/MHz.
- For U-NII-2A, the directional gain is 6.69 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.69-6) = 10.31$  dBm/MHz.
- For U-NII-2C, the directional gain is 6.27 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.27-6) = 10.73$  dBm/MHz.

**802.11ax (HE20)**

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	9.61	9.27	8.75	9.11	15.22	16.35	Pass
40	5200	9.48	9.50	8.61	9.61	15.34	16.35	Pass
48	5240	9.54	9.35	8.66	2.45	14.27	16.35	Pass
52	5260	3.05	4.03	2.47	3.63	9.36	10.31	Pass
60	5300	2.97	3.84	2.33	3.61	9.25	10.31	Pass
64	5320	3.01	3.89	2.39	3.55	9.27	10.31	Pass
100	5500	3.05	3.83	2.67	2.58	9.08	10.73	Pass
116	5580	3.22	3.96	2.33	2.52	9.08	10.73	Pass
140	5700	2.96	3.86	2.17	3.03	9.07	10.73	Pass
144 (U-NII-2C)	5720	2.78	4.04	2.17	2.83	9.03	10.73	Pass

**Notes:**

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional Gain By Client.
- For U-NII-1, the directional gain is 6.65 dBi > 6dBi, so the power density limit shall be reduced to  $17-(6.65-6) = 16.35$  dBm/MHz.
- For U-NII-2A, the directional gain is 6.69 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.69-6) = 10.31$  dBm/MHz.
- For U-NII-2C, the directional gain is 6.27 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.27-6) = 10.73$  dBm/MHz.

### 802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
38	5190	5.13	4.19	3.75	4.19	10.37	16.35	Pass
46	5230	7.58	6.95	6.52	7.19	13.10	16.35	Pass
54	5270	3.00	3.82	2.24	2.35	8.92	10.31	Pass
62	5310	1.44	1.91	0.72	0.97	7.30	10.31	Pass
102	5510	1.56	1.89	0.87	1.16	7.41	10.73	Pass
110	5550	3.01	3.41	2.11	2.27	8.75	10.73	Pass
134	5670	3.62	3.75	2.14	2.63	9.11	10.73	Pass
142 (U-NII-2C)	5710	3.83	3.71	2.25	2.41	9.13	10.73	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional Gain By Client.
- For U-NII-1, the directional gain is 6.65 dBi > 6dBi, so the power density limit shall be reduced to  $17-(6.65-6) = 16.35$  dBm/MHz.
- For U-NII-2A, the directional gain is 6.69 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.69-6) = 10.31$  dBm/MHz.
- For U-NII-2C, the directional gain is 6.27 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.27-6) = 10.73$  dBm/MHz.

### 802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
42	5210	2.86	1.96	1.51	2.58	8.28	16.35	Pass
58	5290	-0.19	0.91	-1.32	-1.53	5.60	10.31	Pass
106	5530	-0.34	0.30	-1.25	-0.76	5.55	10.73	Pass
122	5610	0.82	0.64	-0.35	-0.43	6.23	10.73	Pass
138 (U-NII-2C)	5690	0.66	0.72	-0.15	-0.63	6.21	10.73	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional Gain By Client.
- For U-NII-1, the directional gain is 6.65 dBi > 6dBi, so the power density limit shall be reduced to  $17-(6.65-6) = 16.35$  dBm/MHz.
- For U-NII-2A, the directional gain is 6.69 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.69-6) = 10.31$  dBm/MHz.
- For U-NII-2C, the directional gain is 6.27 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.27-6) = 10.73$  dBm/MHz.

### 802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
50 (U-NII-1)	5250	-2.39	-2.39	-3.00	-3.41	3.24	16.35	Pass
50 (U-NII-2A)	5250	-2.55	-2.70	-3.00	-2.77	3.27	10.31	Pass
114	5570	-3.54	-3.09	-4.39	-4.09	2.27	10.73	Pass

#### Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional Gain By Client.
- For U-NII-1, the directional gain is 6.65 dBi > 6dBi, so the power density limit shall be reduced to  $17-(6.65-6) = 16.35$  dBm/MHz.
- For U-NII-2A, the directional gain is 6.69 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.69-6) = 10.31$  dBm/MHz.
- For U-NII-2C, the directional gain is 6.27 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.27-6) = 10.73$  dBm/MHz.

### 802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
144 (U-NII-3)	5720	-0.39	0.35	-1.08	-1.31	5.46	7.68	29.43	Pass
149	5745	6.95	7.81	7.13	7.43	13.36	15.58	29.43	Pass
157	5785	6.80	7.84	7.07	7.18	13.26	15.48	29.43	Pass
165	5825	6.65	7.58	6.93	7.41	13.18	15.40	29.43	Pass

#### Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional Gain By Client.
- For U-NII-3, the directional gain is 6.57 dBi > 6 dBi, so the power density limit shall be reduced to  $30-(6.57-6) = 29.43$  dBm/500kHz.

### 802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
144 (U-NII-3)	5720	0.32	0.82	-0.69	-0.27	6.1	8.32	29.43	Pass
149	5745	6.69	7.44	6.84	7.19	13.07	15.29	29.43	Pass
157	5785	6.64	7.42	6.76	7.16	13.03	15.25	29.43	Pass
165	5825	6.47	7.18	6.54	7.17	12.87	15.09	29.43	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional Gain By Client.
3. For U-NII-3, the directional gain is 6.57 dBi > 6 dBi, so the power density limit shall be reduced to  $30-(6.57-6) = 29.43$  dBm/500kHz.

### 802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
142 (U-NII-3)	5710	-2.25	-2.12	-3.37	-3.36	3.29	5.51	29.43	Pass
151	5755	4.30	4.41	3.73	4.00	10.14	12.36	29.43	Pass
159	5795	4.14	4.37	3.48	3.99	10.03	12.25	29.43	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional Gain By Client.
3. For U-NII-3, the directional gain is 6.57 dBi > 6 dBi, so the power density limit shall be reduced to  $30-(6.57-6) = 29.43$  dBm/500kHz.

### 802.11ax (HE80)

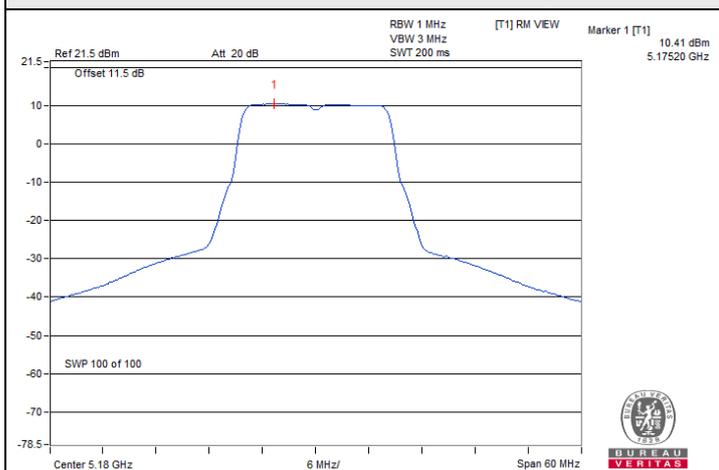
Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
138 (U-NII-3)	5690	-6.33	-5.48	-6.59	-7.28	-0.35	1.87	29.43	Pass
155	5775	0.29	0.34	-0.33	-0.34	6.02	8.24	29.43	Pass

Notes:

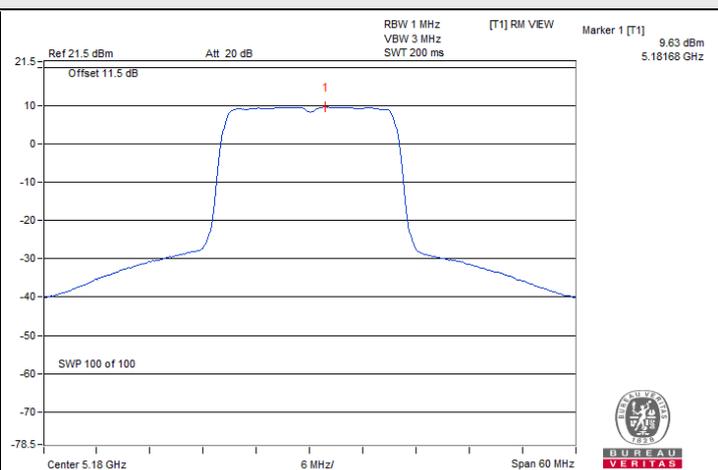
1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional Gain By Client.
3. For U-NII-3, the directional gain is 6.57 dBi > 6 dBi, so the power density limit shall be reduced to  $30-(6.57-6) = 29.43$  dBm/500kHz.



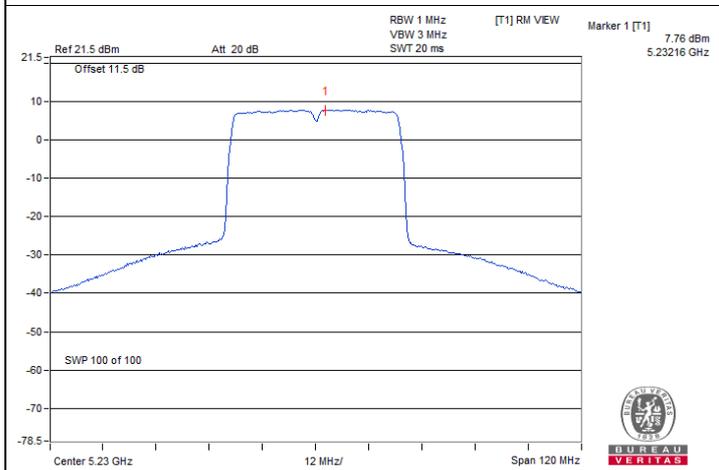
### Spectrum Plot of Maximum Value



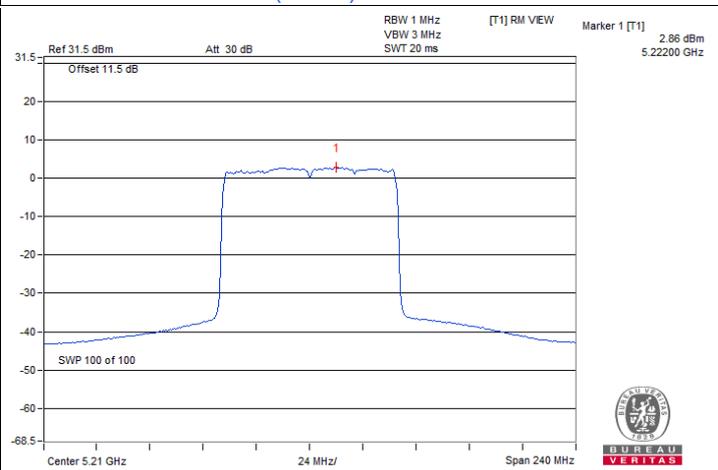
802.11a / Chain0 : CH 36



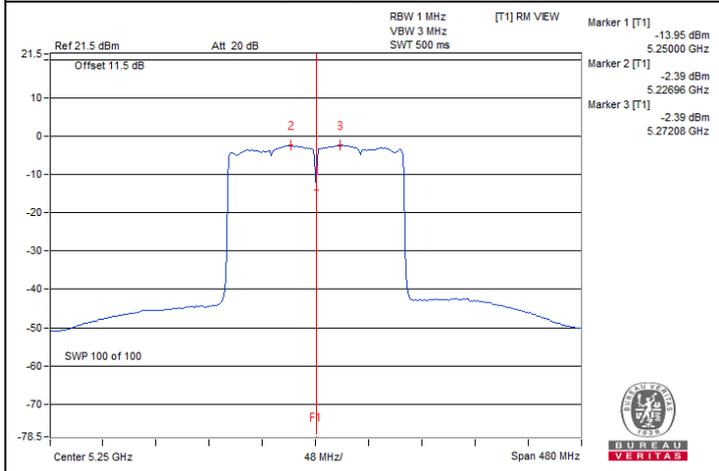
802.11ax (HE20) / Chain0 : CH 36



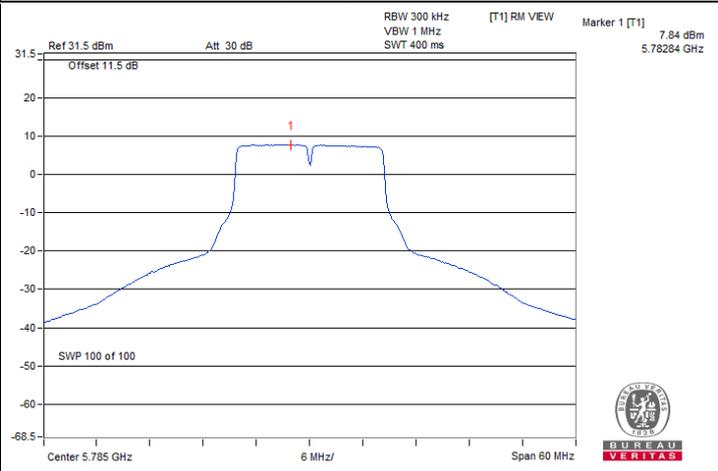
802.11ax (HE40) / Chain0 : CH 46



802.11ax (HE80) / Chain0 : CH 42

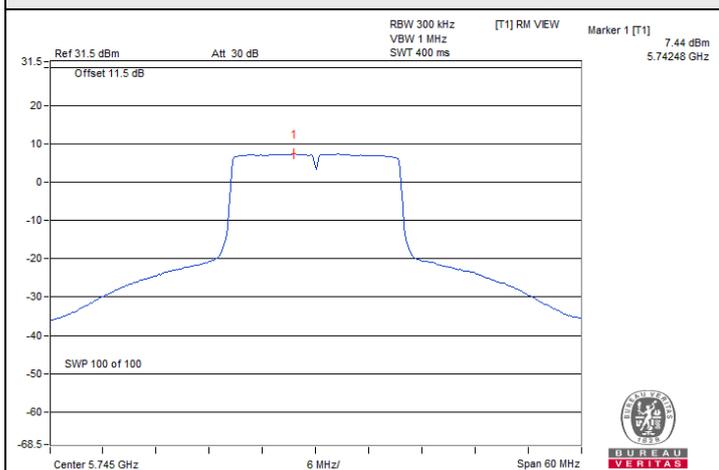


802.11ax (HE160) / Chain0 : CH 50 (U-NII-1)

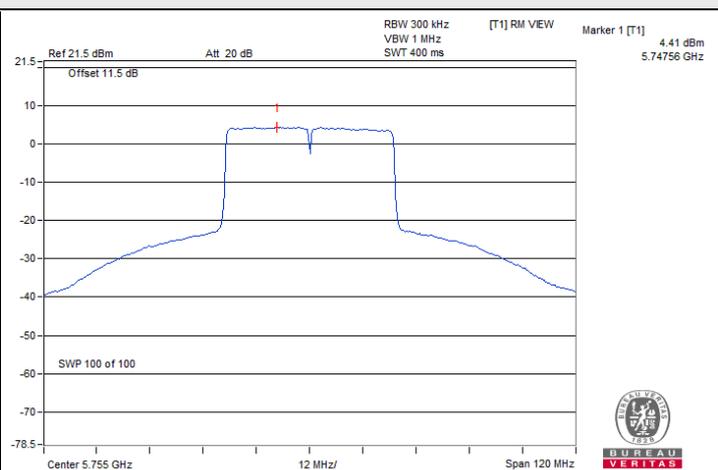


802.11a / Chain1 : CH 157

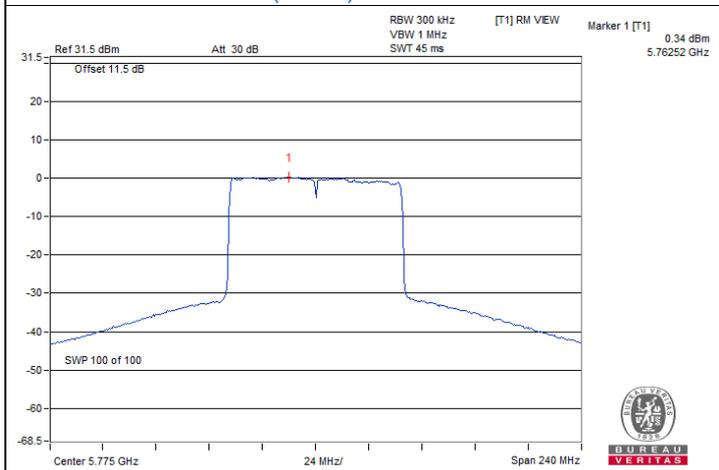
### Spectrum Plot of Maximum Value



802.11ax (HE20) / Chain1 : CH 149



802.11ax (HE40) / Chain1 : CH 151



802.11ax (HE80) / Chain1 : CH 155

## Mode B

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Eric Peng
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### 802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)			Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2			
36	5180	11.59	10.98	11.71	16.21	17.00	Pass
40	5200	11.97	10.97	11.88	16.40	17.00	Pass
48	5240	12.19	11.07	12.32	16.67	17.00	Pass
52	5260	5.56	5.59	5.73	10.40	10.60	Pass
60	5300	6.01	5.77	5.33	10.48	10.60	Pass
64	5320	5.80	5.58	5.55	10.42	10.60	Pass
100	5500	5.85	6.39	5.74	10.77	10.84	Pass
116	5580	6.05	6.26	5.81	10.82	10.84	Pass
140	5700	6.15	5.98	5.61	10.69	10.84	Pass
144 (U-NII-2C)	5720	6.10	5.87	5.98	10.76	10.84	Pass

#### Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1, the directional gain is 5.87 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 6.4 dBi > 6 dBi, so the power density limit shall be reduced to  $11 - (6.4 - 6) = 10.6$  dBm/MHz.
- For U-NII-2C, the directional gain is 6.16 dBi > 6 dBi, so the power density limit shall be reduced to  $11 - (6.16 - 6) = 10.84$  dBm/MHz.

### 802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)			Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2			
36	5180	10.70	9.31	9.99	14.81	17.00	Pass
40	5200	12.48	11.32	12.12	16.77	17.00	Pass
48	5240	12.34	11.39	12.61	16.92	17.00	Pass
52	5260	5.63	5.75	6.07	10.59	10.60	Pass
60	5300	6.02	5.55	5.84	10.58	10.60	Pass
64	5320	5.73	5.83	5.68	10.52	10.60	Pass
100	5500	5.79	6.19	6.14	10.81	10.84	Pass
116	5580	5.95	5.85	6.29	10.81	10.84	Pass
140	5700	6.30	5.98	5.68	10.77	10.84	Pass
144 (U-NII-2C)	5720	6.54	5.90	5.54	10.78	10.84	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1, the directional gain is 5.87 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 6.4 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.4-6) = 10.6$  dBm/MHz.
- For U-NII-2C, the directional gain is 6.16 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.16-6) = 10.84$  dBm/MHz.

### 802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)			Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2			
38	5190	6.09	5.63	4.83	10.32	17.00	Pass
46	5230	8.48	8.66	8.84	13.43	17.00	Pass
54	5270	2.76	3.23	3.21	7.84	10.60	Pass
62	5310	2.10	2.16	2.20	6.92	10.60	Pass
102	5510	2.32	2.13	2.45	7.07	10.84	Pass
110	5550	3.69	3.62	3.25	8.30	10.84	Pass
134	5670	3.66	3.07	3.23	8.10	10.84	Pass
142 (U-NII-2C)	5710	3.32	3.36	3.32	8.10	10.84	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1, the directional gain is 5.87 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 6.4 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.4-6) = 10.6$  dBm/MHz.
- For U-NII-2C, the directional gain is 6.16 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.16-6) = 10.84$  dBm/MHz.

### 802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)			Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2			
42	5210	2.43	2.87	2.48	7.37	17.00	Pass
58	5290	0.42	0.31	0.18	5.08	10.60	Pass
106	5530	0.74	0.24	0.48	5.26	10.84	Pass
122	5610	0.91	0.29	0.88	5.47	10.84	Pass
138 (U-NII-2C)	5690	0.10	0.55	0.01	5.00	10.84	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1, the directional gain is 5.87 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 6.4 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.4-6) = 10.6$  dBm/MHz.
- For U-NII-2C, the directional gain is 6.16 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.16-6) = 10.84$  dBm/MHz.

### 802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)			Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2			
50 (U-NII-1)	5250	-3.00	-2.69	-3.18	1.82	17.00	Pass
50 (U-NII-2A)	5250	-2.61	-2.55	-2.93	2.08	10.60	Pass
114	5570	-2.84	-2.50	-2.86	2.04	10.84	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1, the directional gain is 5.87 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 6.4 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.4-6) = 10.6$  dBm/MHz.
- For U-NII-2C, the directional gain is 6.16 dBi > 6 dBi, so the power density limit shall be reduced to  $11-(6.16-6) = 10.84$  dBm/MHz.

### 802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)			Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2				
144 (U-NII-3)	5720	-1.39	-0.79	-0.79	3.79	6.01	29.82	Pass
149	5745	5.62	5.16	5.53	10.21	12.43	29.82	Pass
157	5785	5.33	5.61	5.13	10.13	12.35	29.82	Pass
165	5825	4.22	4.38	4.47	9.13	11.35	29.82	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- For U-NII-3, the directional gain is 6.18 dBi > 6 dBi, so the power density limit shall be reduced to  $30-(6.18-6) = 29.82$  dBm/500kHz.

### 802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)			Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2				
144 (U-NII-3)	5720	-1.77	-2.90	-2.39	2.44	4.66	29.82	Pass
149	5745	4.15	3.82	3.87	8.72	10.94	29.82	Pass
157	5785	3.56	3.93	3.46	8.43	10.65	29.82	Pass
165	5825	3.21	3.72	3.62	8.29	10.51	29.82	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- For U-NII-3, the directional gain is 6.18 dBi > 6 dBi, so the power density limit shall be reduced to  $30-(6.18-6) = 29.82$  dBm/500kHz.

### 802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)			Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2				
142 (U-NII-3)	5710	-5.71	-6.07	-5.96	-1.14	1.08	29.82	Pass
151	5755	1.40	1.29	0.75	5.93	8.15	29.82	Pass
159	5795	0.76	1.02	0.88	5.66	7.88	29.82	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- For U-NII-3, the directional gain is 6.18 dBi > 6 dBi, so the power density limit shall be reduced to  $30-(6.18-6) = 29.82$  dBm/500kHz.

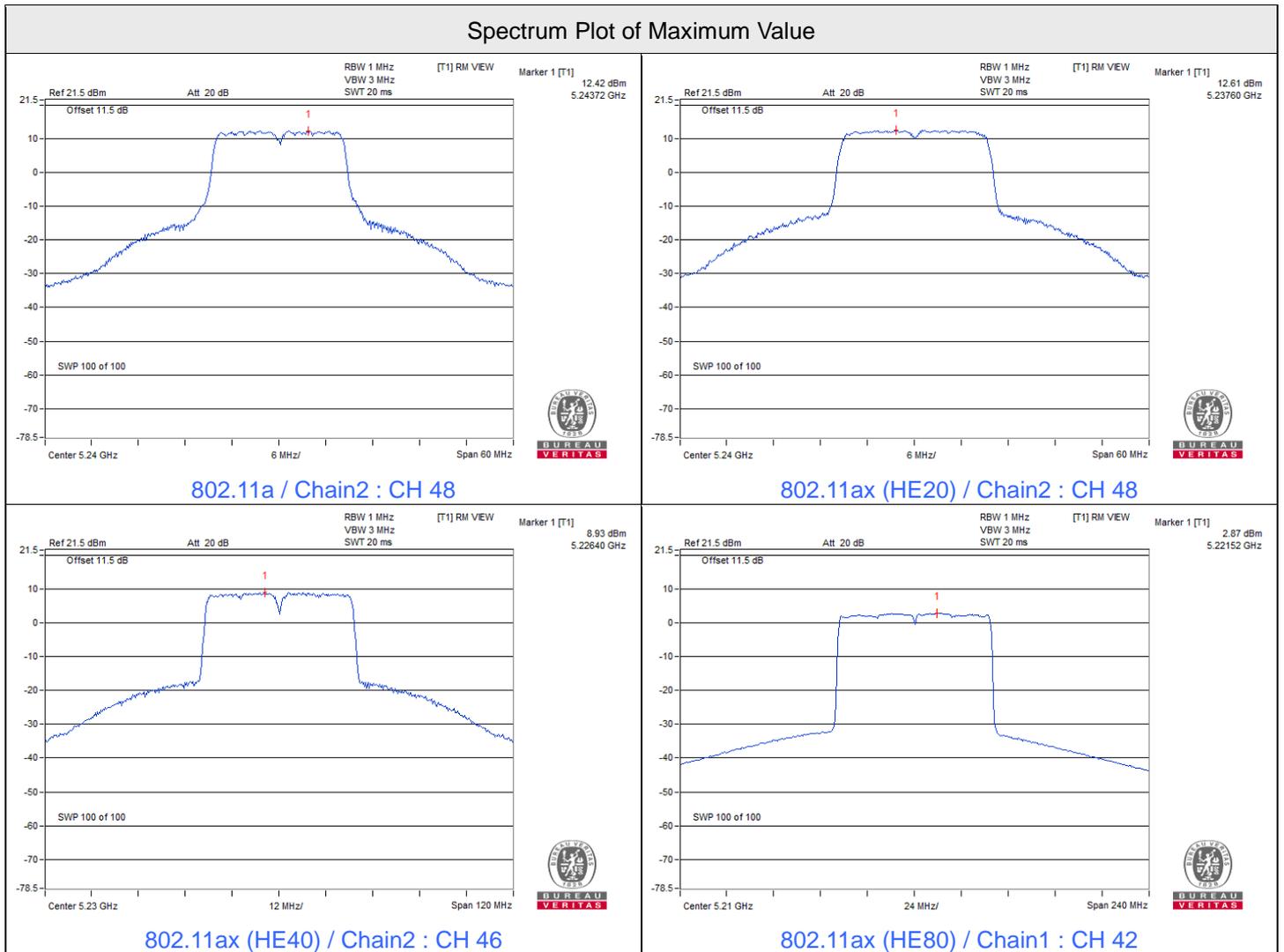


802.11ax (HE80)

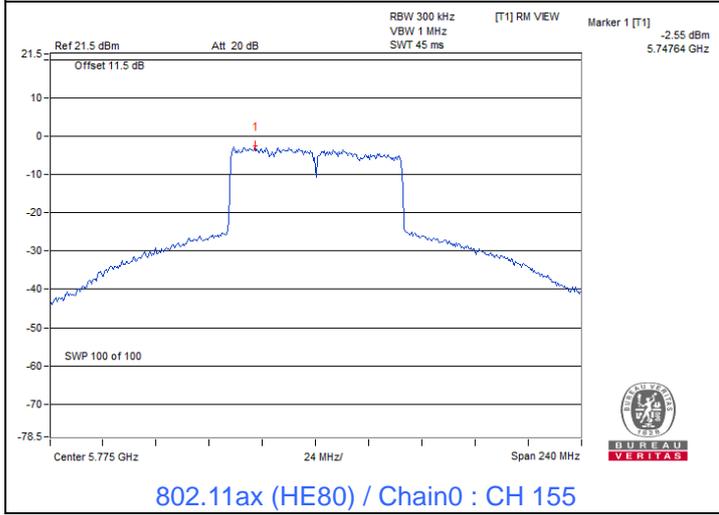
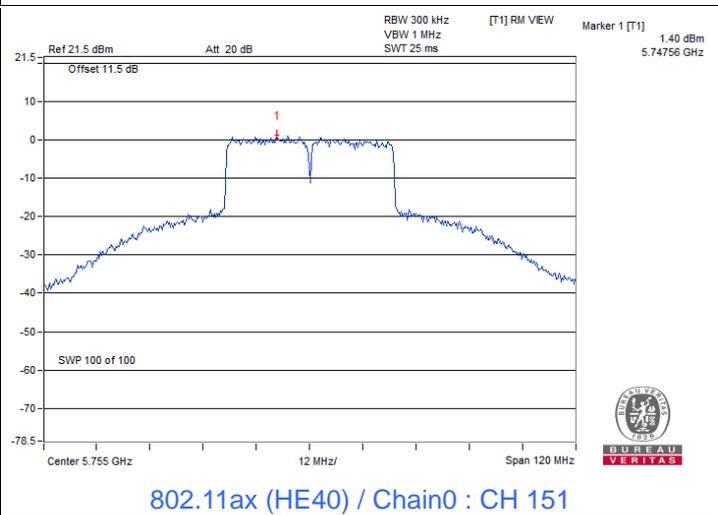
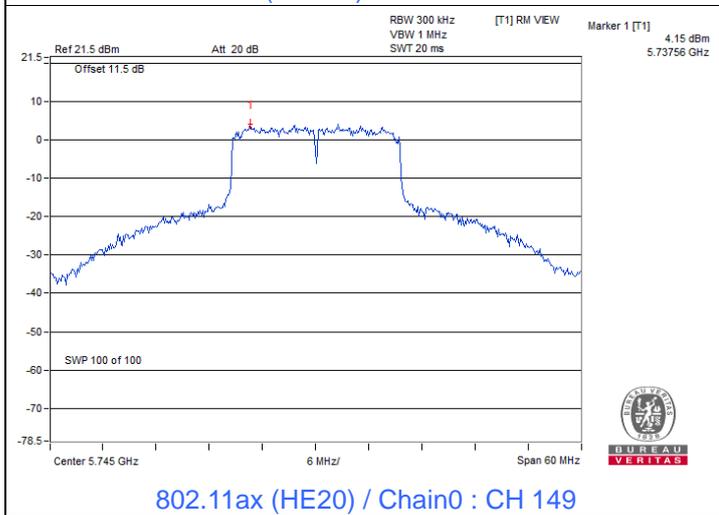
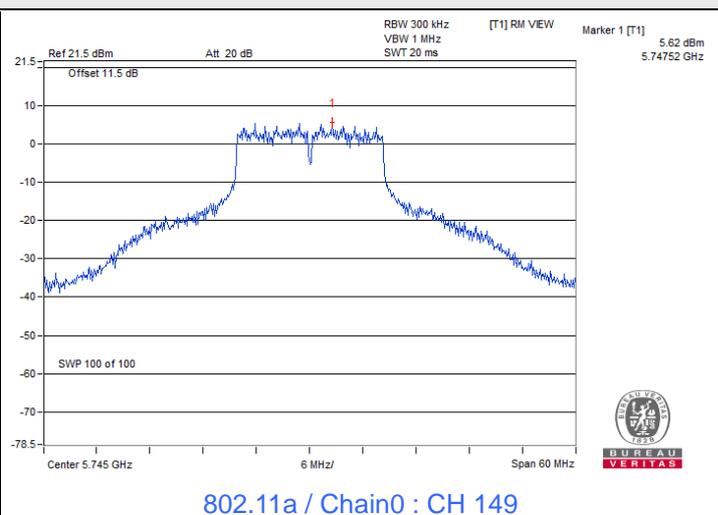
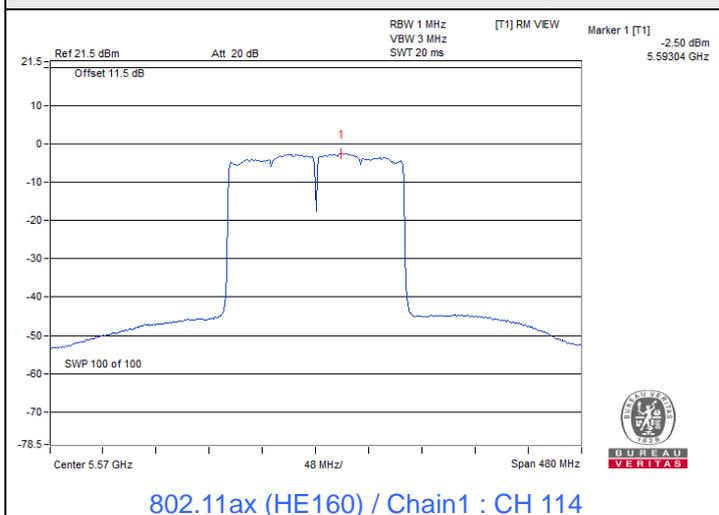
Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)			Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2				
138 (U-NII-3)	5690	-9.88	-9.80	-9.88	-5.08	-2.86	29.82	Pass
155	5775	-2.55	-3.30	-3.24	1.75	3.97	29.82	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- For U-NII-3, the directional gain is 6.18 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.18-6) = 29.82 dBm/500kHz.



### Spectrum Plot of Maximum Value



## 7.4 6 dB Bandwidth

### Mode A

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	23 °C, 66 % RH	Tested By:	Eric Peng
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#### 802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
144 (U-NII-3)	5720	3.2	3.23	3.23	3.22	0.5	Pass
149	5745	16.42	16.45	16.46	16.46	0.5	Pass
157	5785	16.44	16.46	16.45	16.47	0.5	Pass
165	5825	16.46	16.46	16.45	16.46	0.5	Pass

#### 802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
144 (U-NII-3)	5720	4.56	4.54	4.56	4.53	0.5	Pass
149	5745	19.1	19.09	19.07	19.05	0.5	Pass
157	5785	19.13	19.11	19.1	19.11	0.5	Pass
165	5825	19.14	19.06	19.09	19.01	0.5	Pass

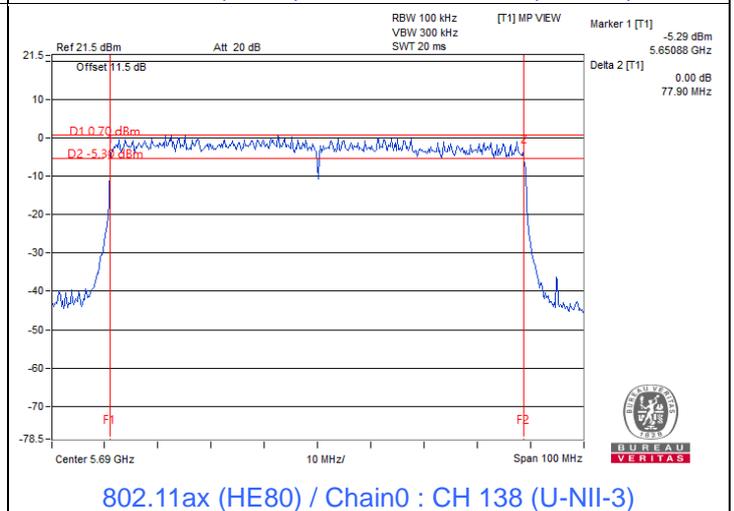
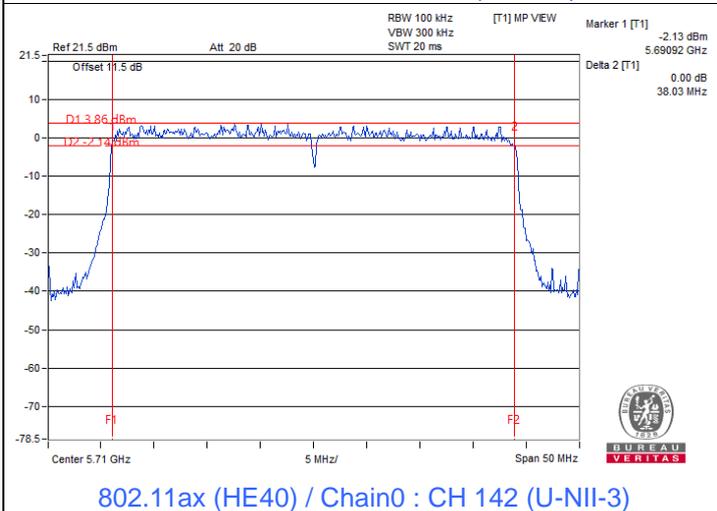
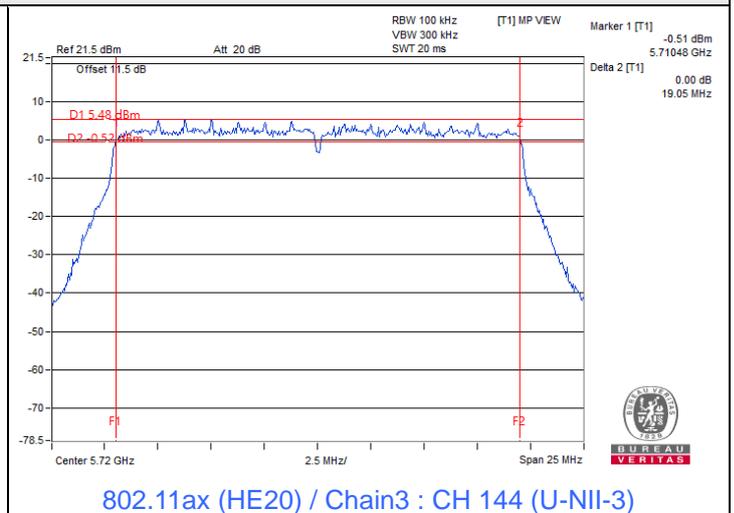
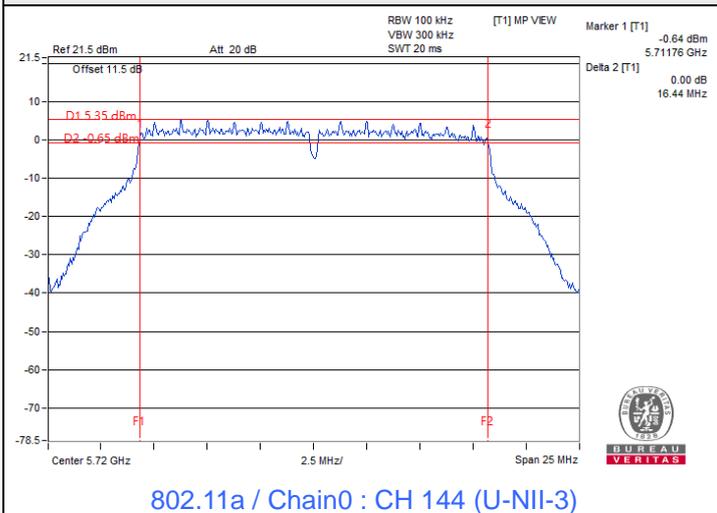
#### 802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
142 (U-NII-3)	5710	3.95	3.98	3.95	3.98	0.5	Pass
151	5755	37.96	37.85	38.05	38	0.5	Pass
159	5795	38.04	37.83	37.92	38.1	0.5	Pass

#### 802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
138 (U-NII-3)	5690	3.78	4.07	4	4.01	0.5	Pass
155	5775	78	78.14	78.12	78.33	0.5	Pass

### Spectrum Plot of Minimum Value

**Notes:**

1. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725MHz

**Mode B**

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Eric Peng
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**802.11a**

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)			Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2		
144 (U-NII-3)	5720	3.22	3.24	3.23	0.5	Pass
149	5745	16.39	16.39	16.4	0.5	Pass
157	5785	16.36	16.39	16.39	0.5	Pass
165	5825	16.38	16.4	16.4	0.5	Pass

**802.11ax (HE20)**

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)			Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2		
144 (U-NII-3)	5720	4.54	4.52	4.57	0.5	Pass
149	5745	18.98	18.99	18.96	0.5	Pass
157	5785	18.86	18.95	18.99	0.5	Pass
165	5825	19.06	18.92	18.98	0.5	Pass

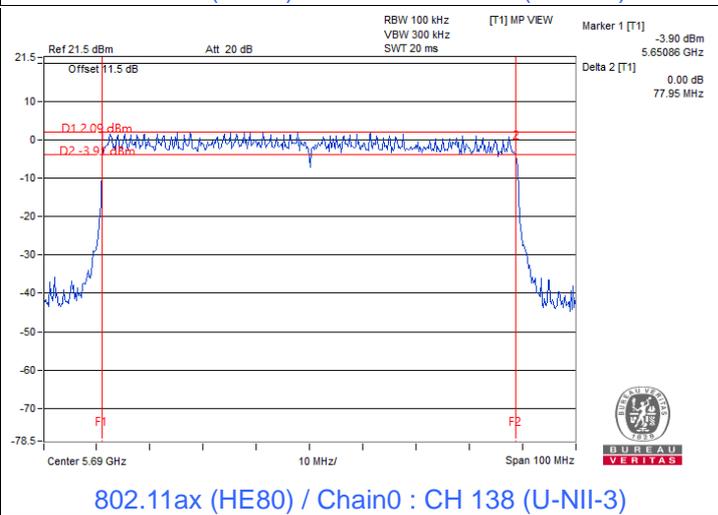
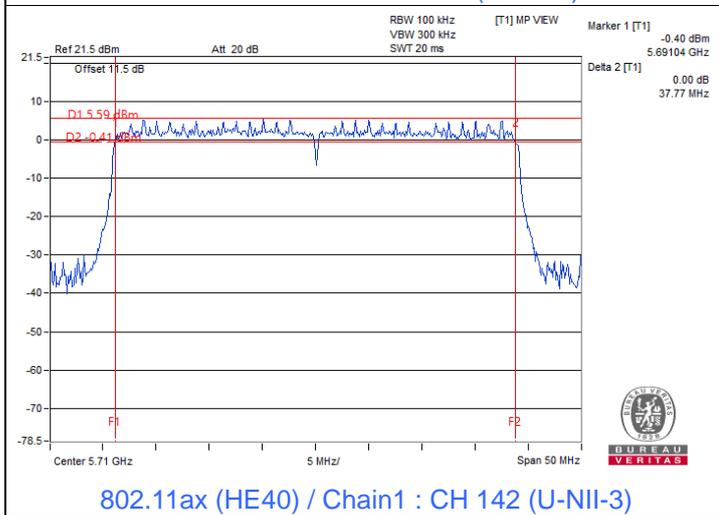
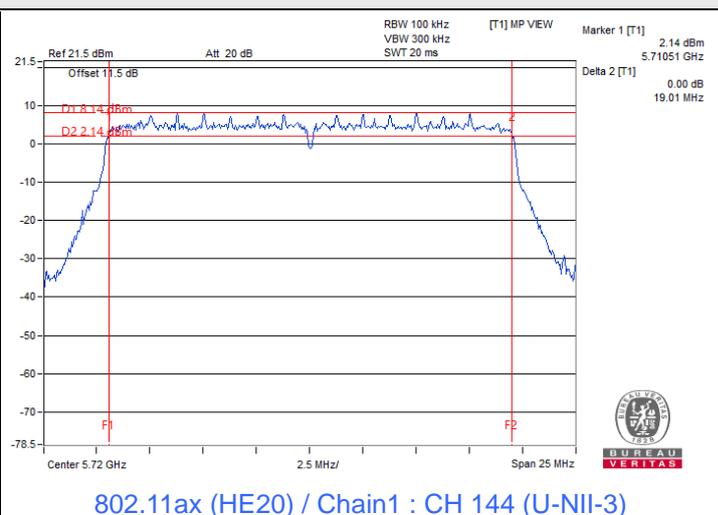
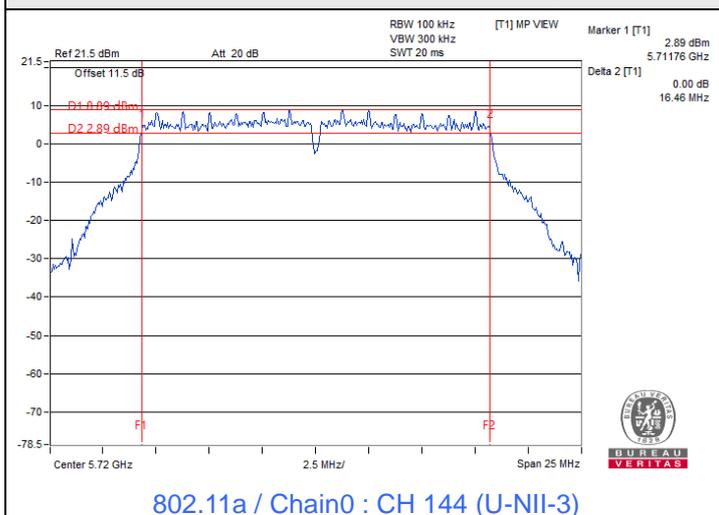
**802.11ax (HE40)**

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)			Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2		
142 (U-NII-3)	5710	4	3.81	4	0.5	Pass
151	5755	37.8	37.85	37.91	0.5	Pass
159	5795	37.9	37.88	37.92	0.5	Pass

**802.11ax (HE80)**

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)			Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2		
138 (U-NII-3)	5690	3.81	3.94	3.83	0.5	Pass
155	5775	77.06	77.62	77.26	0.5	Pass

### Spectrum Plot of Minimum Value



**Notes:**

1. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725MHz

## 7.5 Occupied Bandwidth

### Mode A

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	23 °C, 66 % RH	Tested By:	Eric Peng
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### 802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	17.28	17.16	17.04	17.04
40	5200	17.16	17.16	17.04	17.16
48	5240	17.16	17.16	17.04	17.04
52	5260	17.16	17.16	17.04	17.04
60	5300	17.16	17.16	17.04	17.04
64	5320	17.16	17.16	17.04	17.04
100	5500	17.16	17.04	17.04	16.92
116	5580	17.16	17.16	17.04	16.92
140	5700	17.16	17.16	17.04	17.04
144 (U-NII-2C)	5720	13.64	13.52	13.52	13.52
144 (U-NII-3)	5720	3.4	3.52	3.52	3.4
149	5745	17.28	17.88	17.4	17.4
157	5785	17.4	18.12	17.76	17.88
165	5825	17.4	17.88	17.76	17.76

### 802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	19.2	19.2	19.2	19.2
40	5200	19.2	19.32	19.2	19.2
48	5240	19.2	19.2	19.2	19.2
52	5260	19.2	19.2	19.08	19.2
60	5300	19.2	19.2	19.2	19.08
64	5320	19.08	19.2	19.2	19.2
100	5500	19.2	19.2	19.08	19.2
116	5580	19.2	19.08	19.08	19.2
140	5700	19.2	19.2	19.2	19.2
144 (U-NII-2C)	5720	14.57	14.48	14.57	14.57
144 (U-NII-3)	5720	4.57	4.57	4.57	4.65
149	5745	19.32	19.44	19.44	19.32
157	5785	19.32	19.56	19.56	19.44
165	5825	19.32	19.44	19.44	19.32

**802.11ax (HE40)**

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	37.92	37.92	37.92	38.16
46	5230	37.92	37.92	37.92	37.92
54	5270	37.92	37.92	37.92	37.92
62	5310	37.92	38.16	38.16	37.92
102	5510	38.16	37.92	37.92	37.92
110	5550	38.4	37.92	37.92	37.92
134	5670	37.92	37.92	38.16	38.16
142 (U-NII-2C)	5710	34.2	33.96	33.96	34.2
142 (U-NII-3)	5710	3.72	4.2	3.96	3.96
151	5755	38.16	38.64	38.4	38.4
159	5795	38.64	38.64	38.4	38.4

**802.11ax (HE80)**

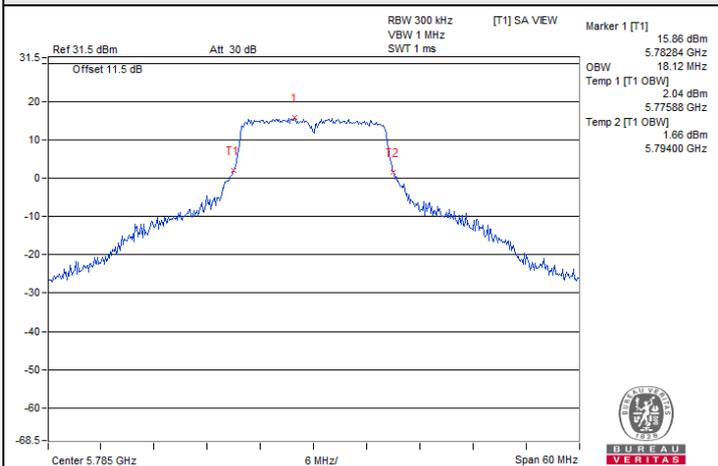
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	77.28	78.24	77.28	77.76
58	5290	77.28	77.28	77.76	77.76
106	5530	77.28	77.28	77.76	77.76
122	5610	77.76	77.76	77.28	77.28
138 (U-NII-2C)	5690	73.88	73.4	73.88	73.88
138 (U-NII-3)	5690	3.4	3.4	3.88	3.88
155	5775	77.28	77.28	77.76	77.76

**802.11ax (HE160)**

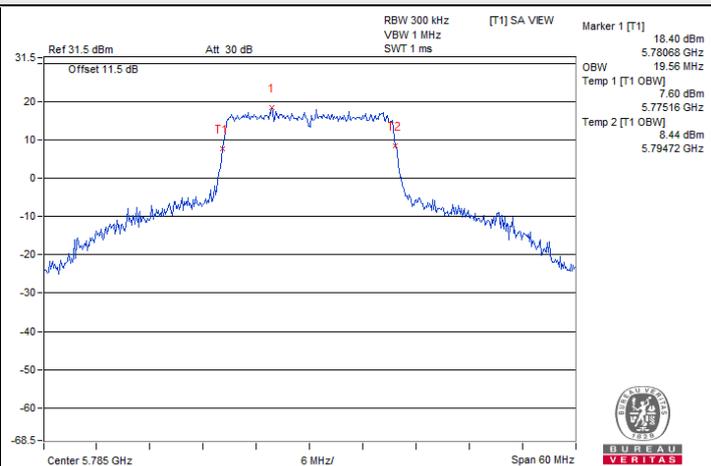
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-1)	5250	77.22	77.91	77.22	77.22
50 (U-NII-2A)	5250	77.22	77.22	77.22	77.91
114	5570	155.52	154.44	154.44	154.44



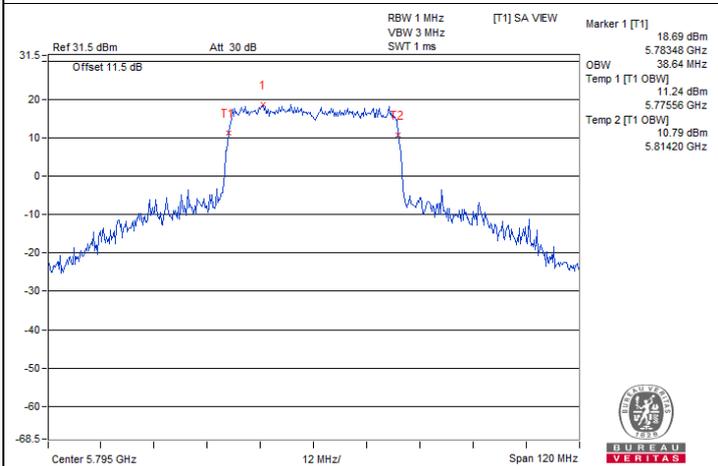
### Spectrum Plot of Maximum Value



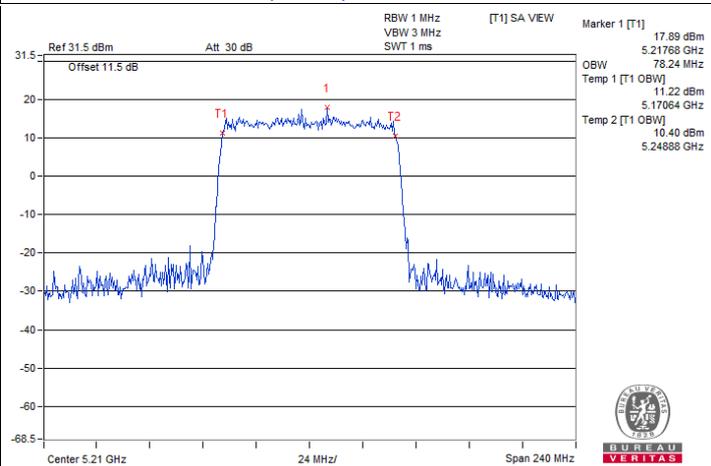
802.11a / Chain1 : CH 157



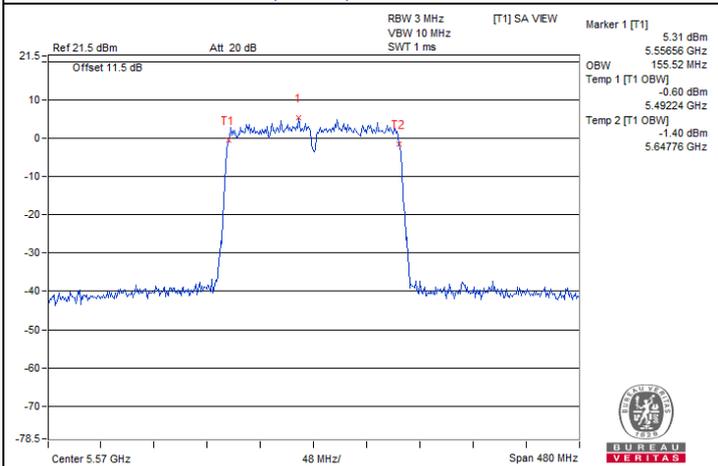
802.11ax (HE20) / Chain1 : CH 157



802.11ax (HE40) / Chain0 : CH 159

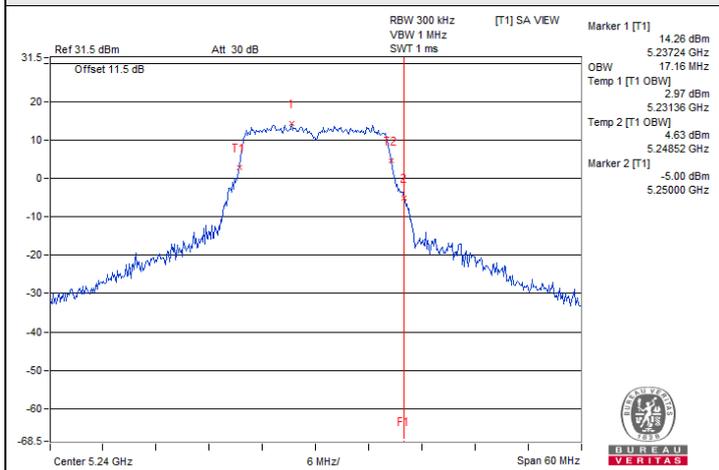


802.11ax (HE80) / Chain1 : CH 42

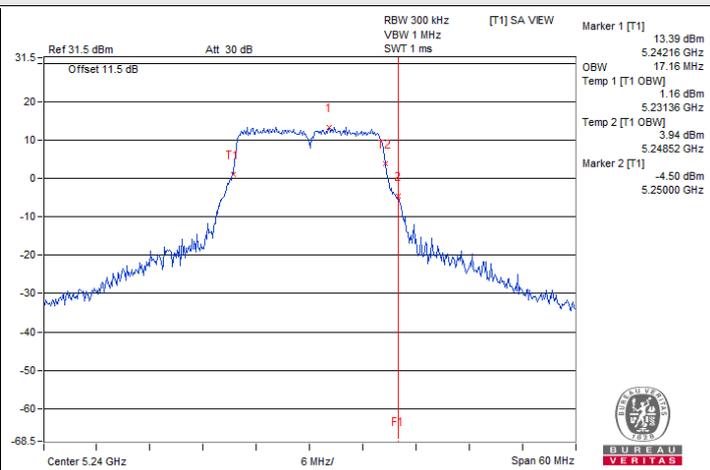


802.11ax (HE160) / Chain0 : CH 114

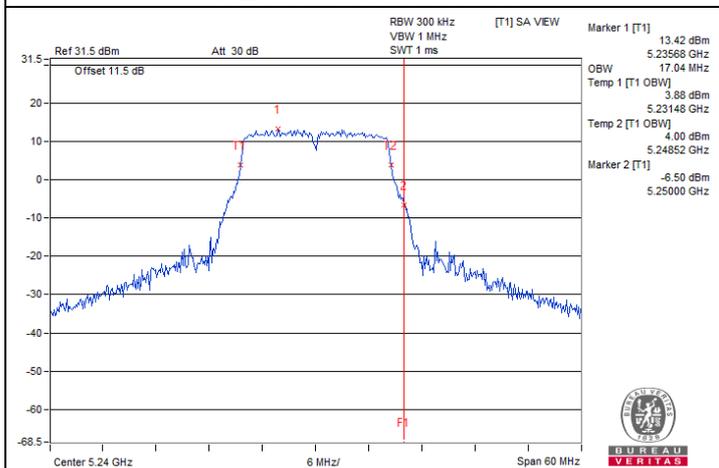
### Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)



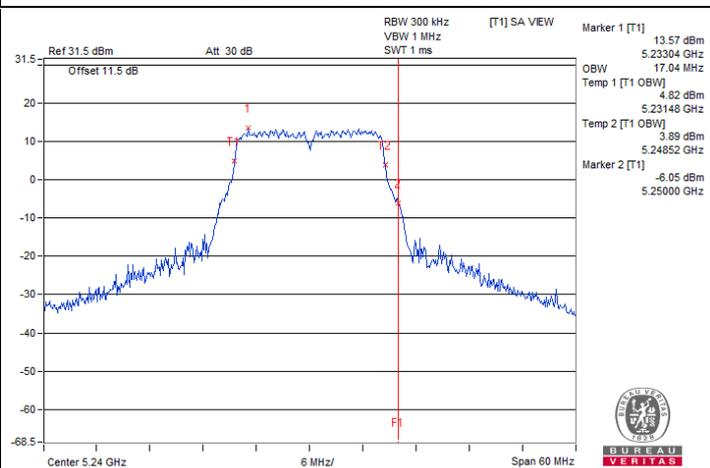
802.11a / Chain 0 : CH 48



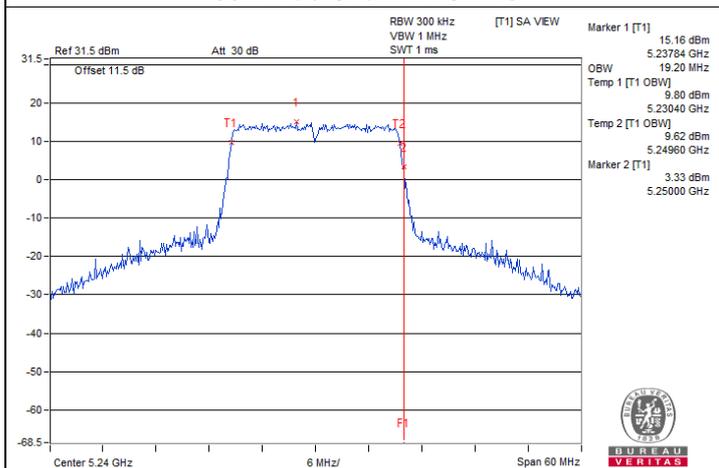
802.11a / Chain 1 : CH 48



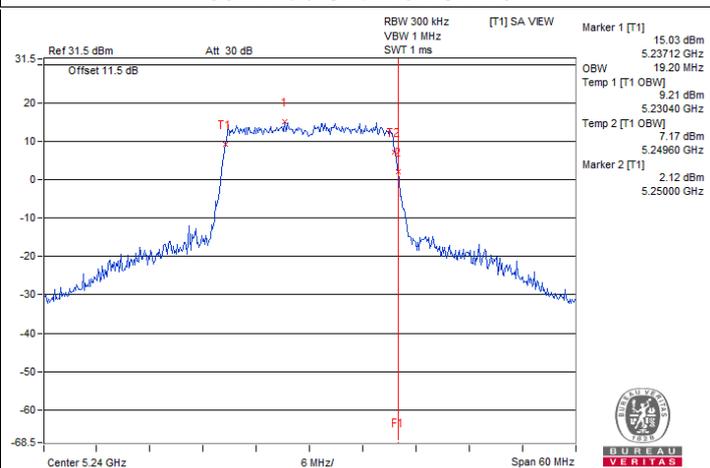
802.11a / Chain 2 : CH 48



802.11a / Chain 3 : CH 48

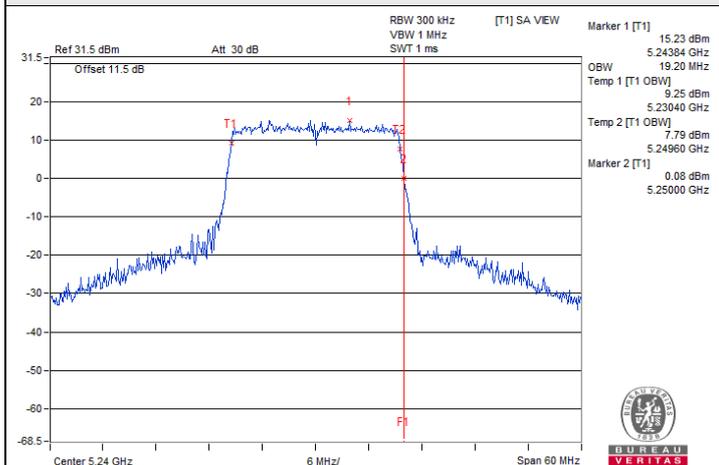


802.11ax (HE20) / Chain 0 : CH 48

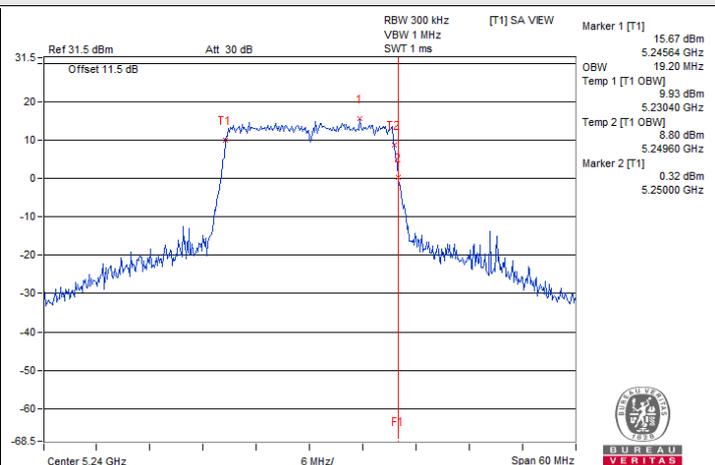


802.11ax (HE20) / Chain 1 : CH 48

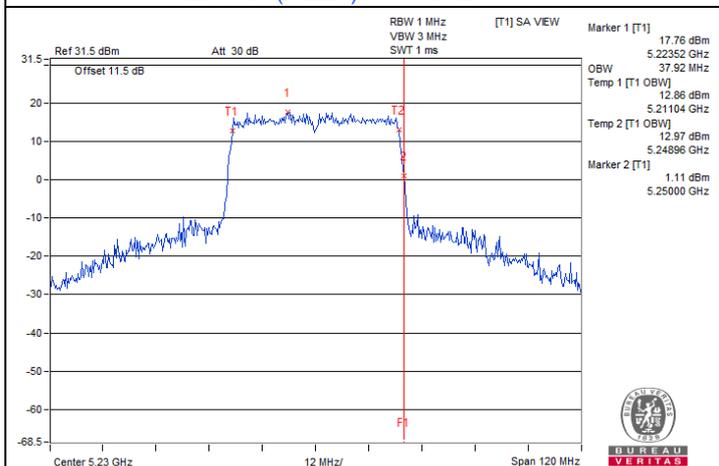
### Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)



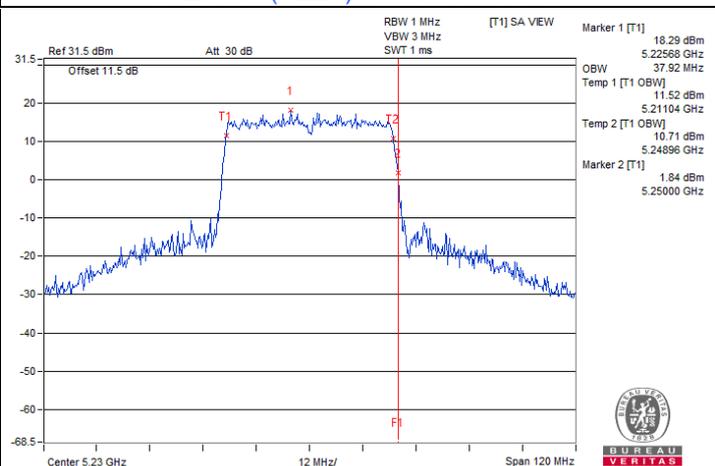
802.11ax (HE20) / Chain 2 : CH 48



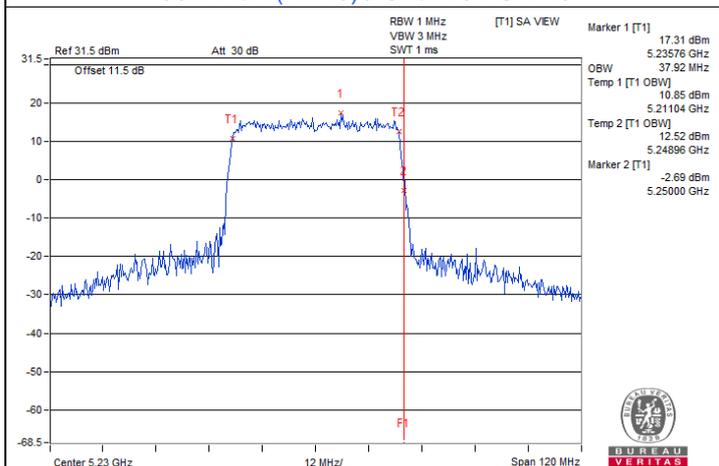
802.11ax (HE20) / Chain 3 : CH 48



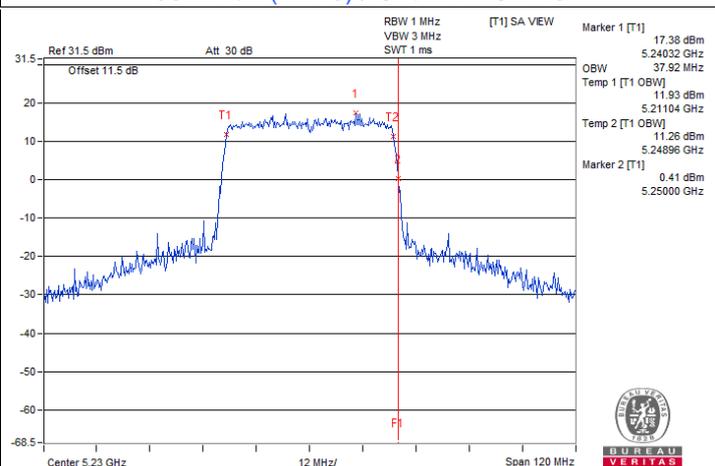
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46

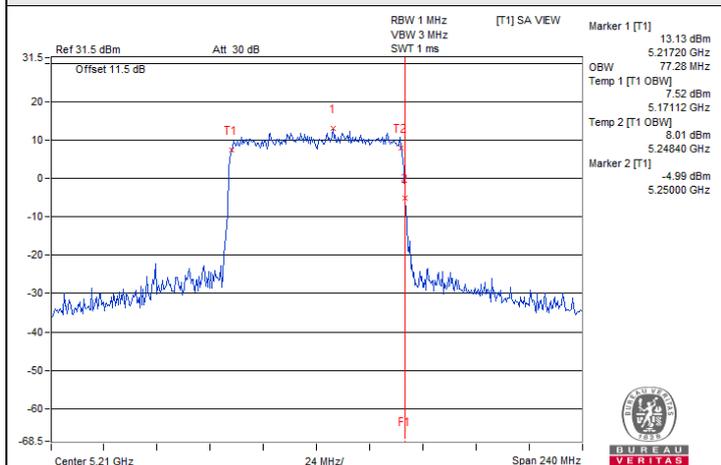


802.11ax (HE40) / Chain 2 : CH 46

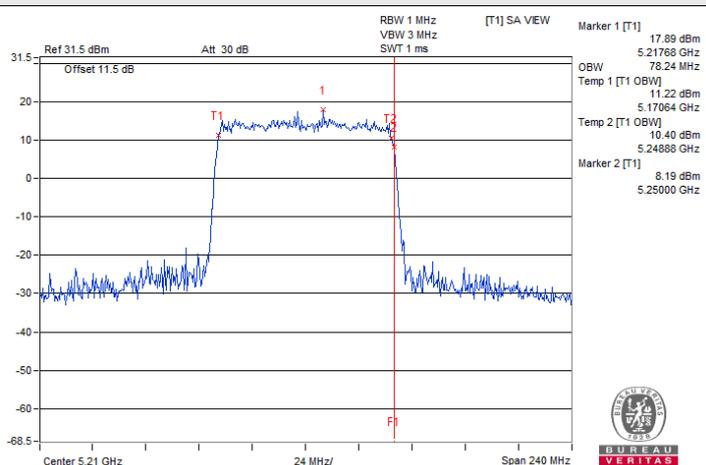


802.11ax (HE40) / Chain 3 : CH 46

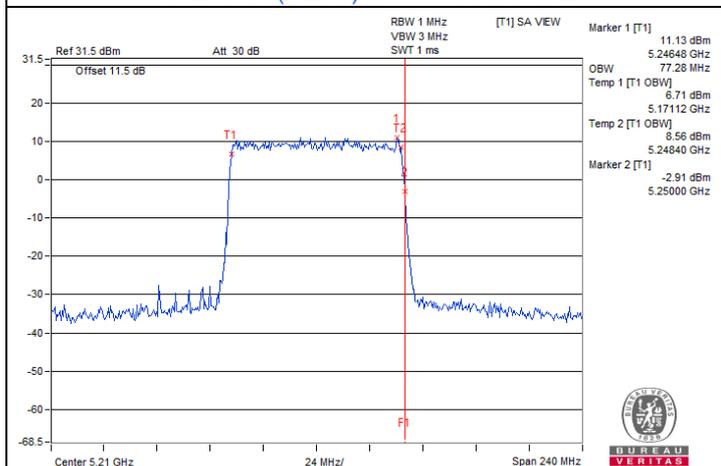
### Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)



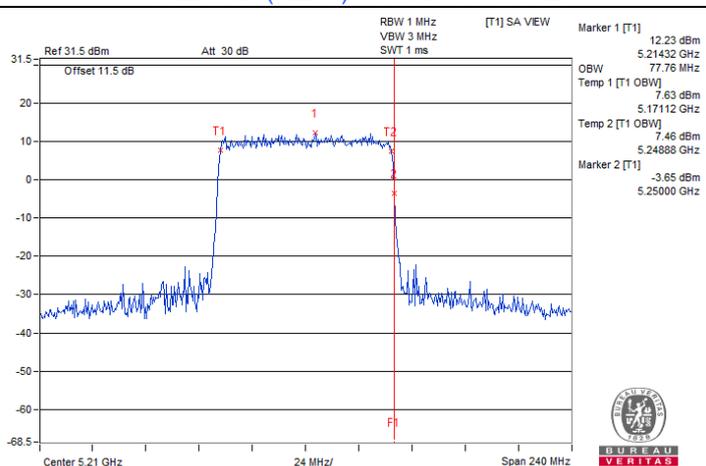
802.11ax (HE80) / Chain 0 : CH 42



802.11ax (HE80) / Chain 1 : CH 42

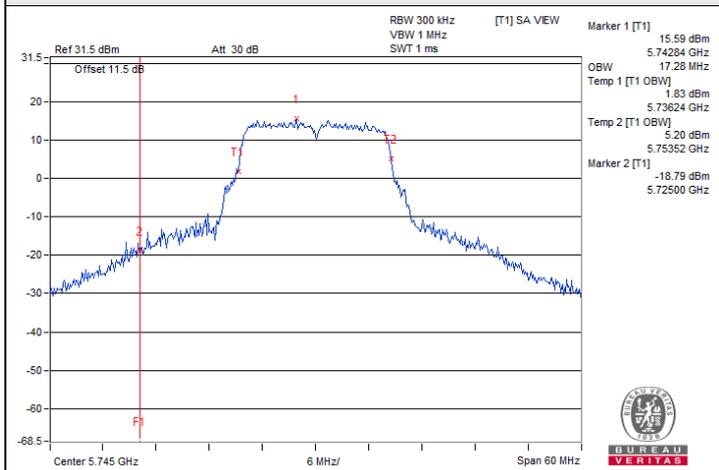


802.11ax (HE80) / Chain 2 : CH 42

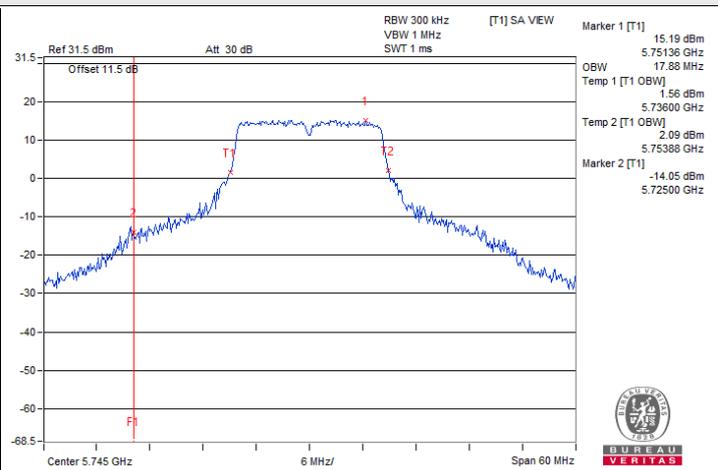


802.11ax (HE80) / Chain 3 : CH 42

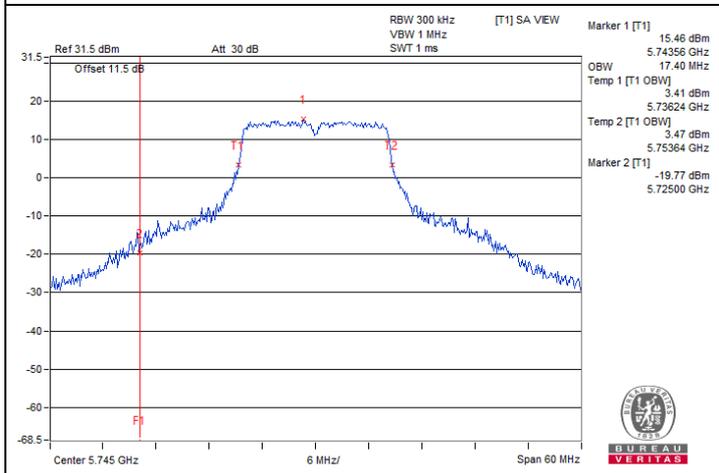
### Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)



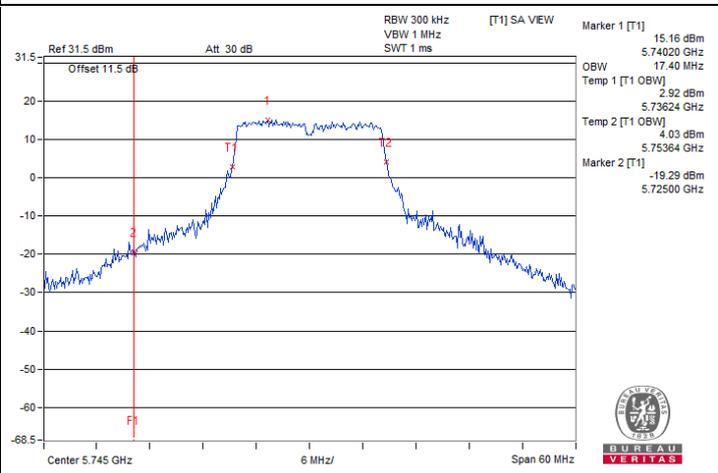
802.11a / Chain 0 : CH 149



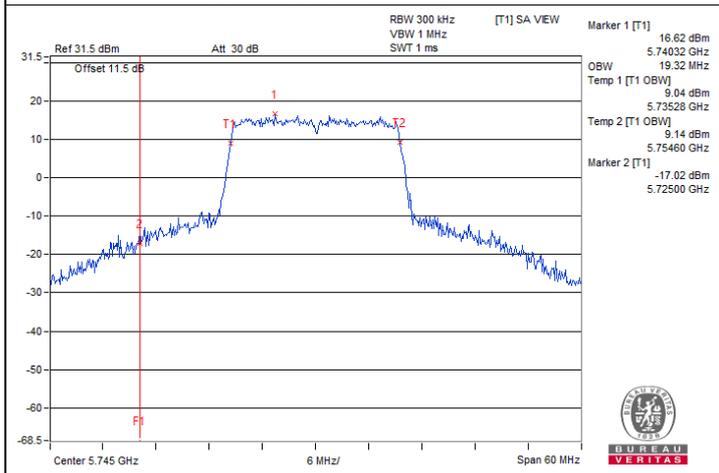
802.11a / Chain 1 : CH 149



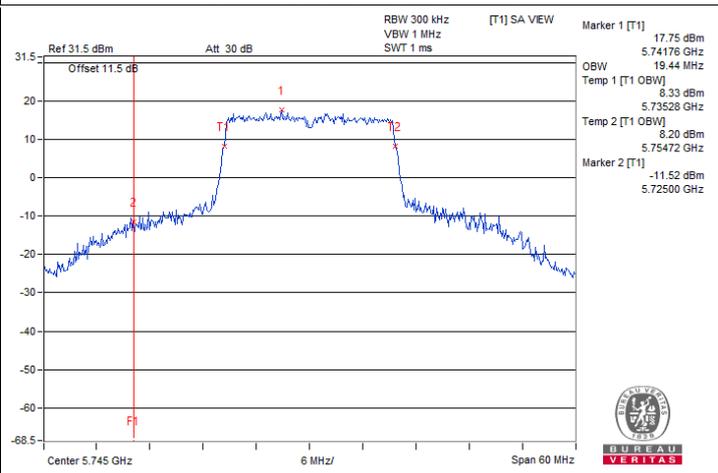
802.11a / Chain 2 : CH 149



802.11a / Chain 3 : CH 149



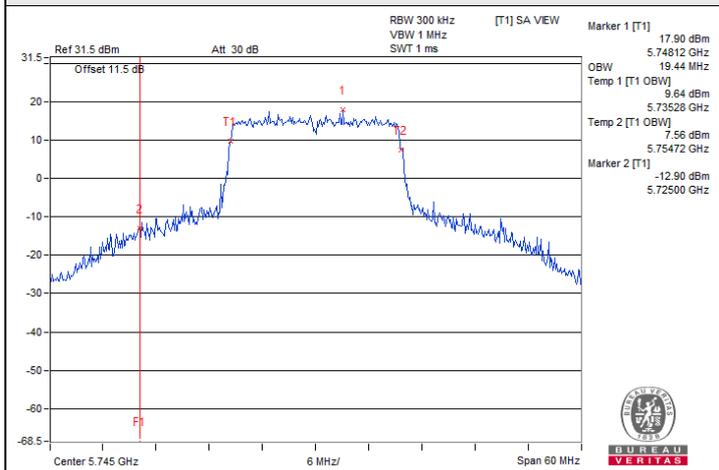
802.11ax (HE20) / Chain 0 : CH 149



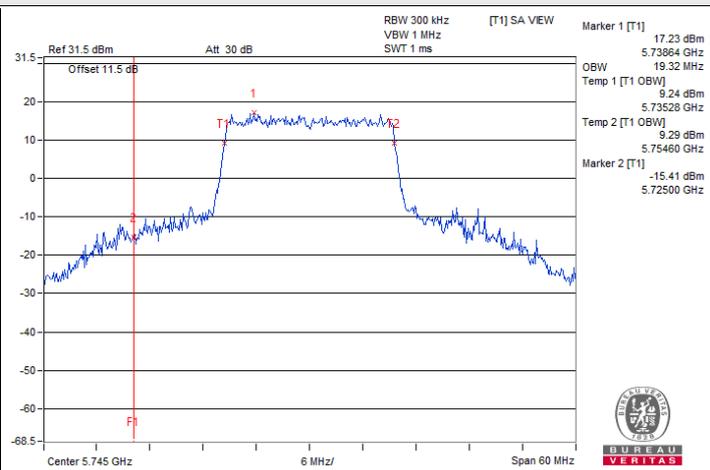
802.11ax (HE20) / Chain 1 : CH 149



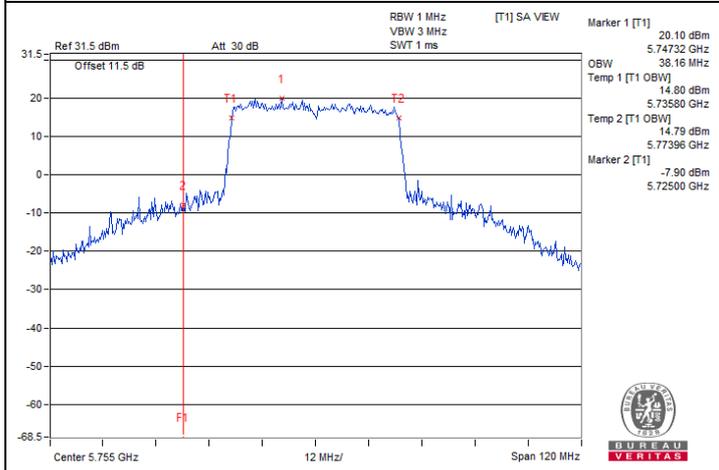
### Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)



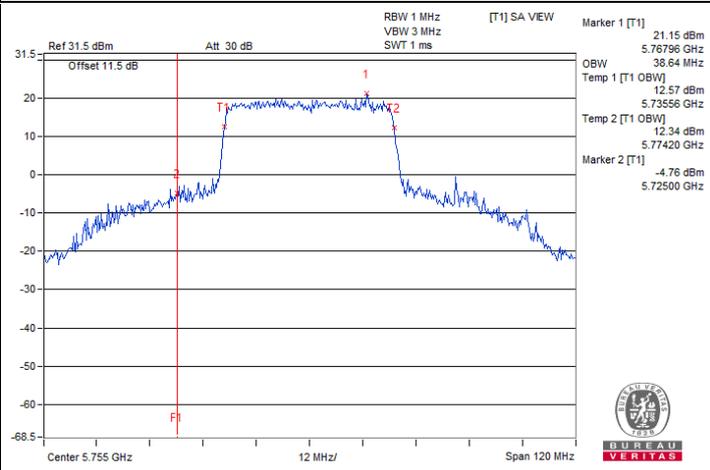
802.11ax (HE20) / Chain 2 : CH 149



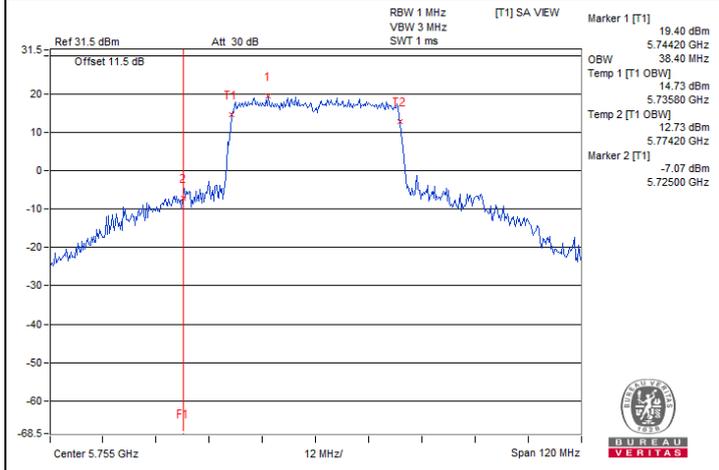
802.11ax (HE20) / Chain 3 : CH 149



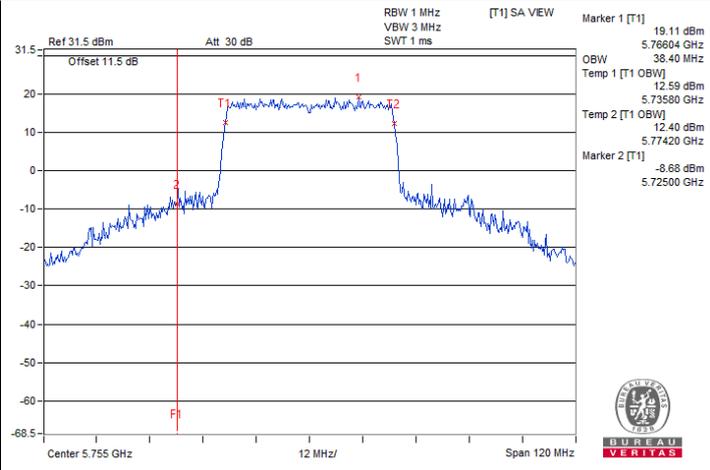
802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE40) / Chain 1 : CH 151



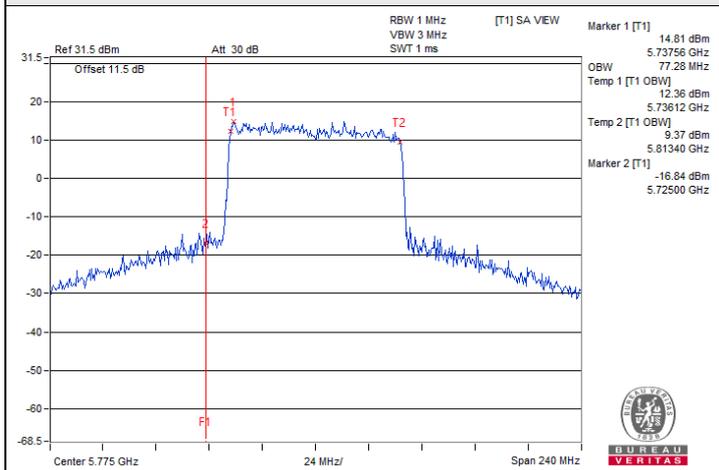
802.11ax (HE40) / Chain 2 : CH 151



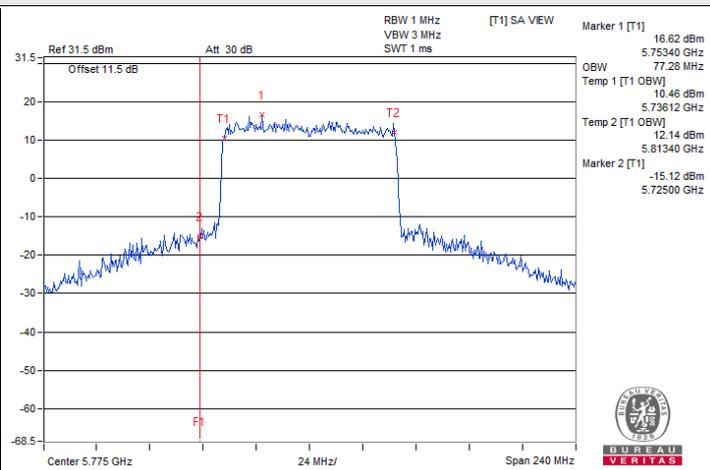
802.11ax (HE40) / Chain 3 : CH 151



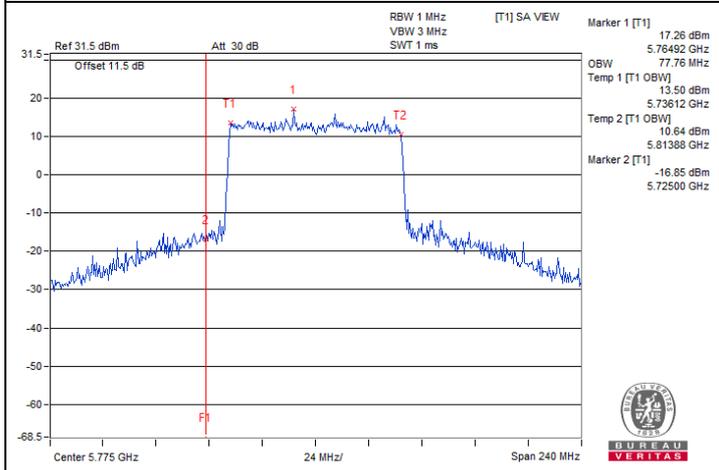
### Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)



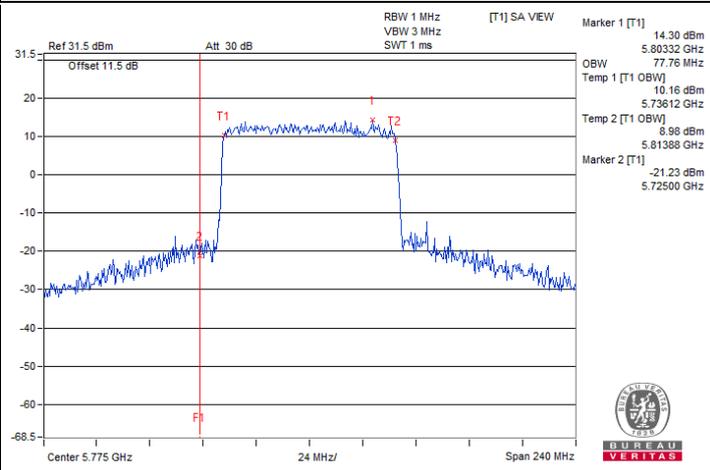
802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155



802.11ax (HE80) / Chain 2 : CH 155



802.11ax (HE80) / Chain 3 : CH 155

**Mode B**

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Eric Peng
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**802.11a**

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
36	5180	17.52	17.16	17.28
40	5200	17.88	17.04	17.28
48	5240	17.52	17.16	17.04
52	5260	16.8	16.92	16.8
60	5300	17.04	16.92	16.8
64	5320	16.92	16.8	16.68
100	5500	16.8	16.92	16.8
116	5580	16.92	16.92	16.92
140	5700	16.92	16.92	16.92
144 (U-NII-2C)	5720	13.4	13.4	13.52
144 (U-NII-3)	5720	3.64	3.4	3.4
149	5745	22.2	20.28	25.8
157	5785	22.92	22.44	26.88
165	5825	19.2	18.72	21.12

**802.11ax (HE20)**

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
36	5180	19.08	19.2	19.2
40	5200	19.44	19.2	19.32
48	5240	19.56	19.2	19.2
52	5260	18.96	19.08	18.96
60	5300	19.2	19.2	19.2
64	5320	19.08	19.2	19.08
100	5500	19.08	19.2	19.08
116	5580	19.08	19.2	19.32
140	5700	18.96	19.08	19.2
144 (U-NII-2C)	5720	14.6	14.6	14.6
144 (U-NII-3)	5720	4.48	4.48	4.6
149	5745	21.48	20.28	25.92
157	5785	20.64	20.16	24.36
165	5825	20.04	20.04	25.32

**802.11ax (HE40)**

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
38	5190	38.16	38.16	38.16
46	5230	38.64	38.88	38.64
54	5270	38.16	38.16	38.16
62	5310	37.92	38.16	38.16
102	5510	37.68	37.92	38.16
110	5550	38.16	38.16	38.16
134	5670	38.16	37.92	38.16
142 (U-NII-2C)	5710	33.96	33.96	34.2
142 (U-NII-3)	5710	3.96	3.96	3.96
151	5755	49.44	47.52	54.48
159	5795	49.92	50.16	54.72

**802.11ax (HE80)**

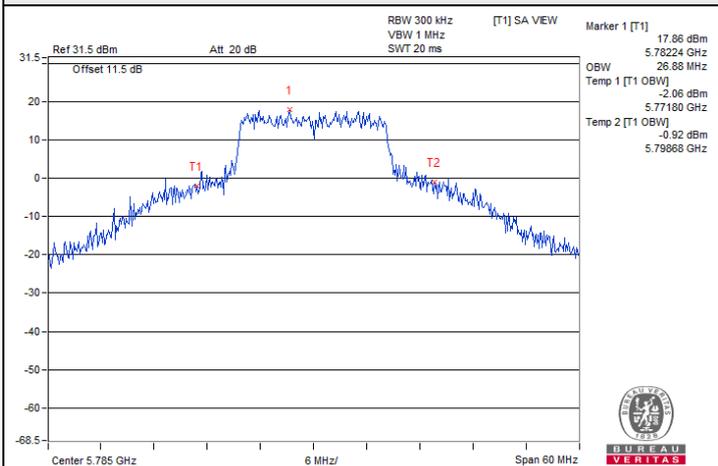
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
42	5210	77.28	77.76	77.28
58	5290	77.28	77.28	77.28
106	5530	76.8	77.28	77.28
122	5610	77.28	77.28	77.28
138 (U-NII-2C)	5690	73.88	73.88	73.88
138 (U-NII-3)	5690	3.4	3.4	3.4
155	5775	78.72	78.24	78.72

**802.11ax (HE160)**

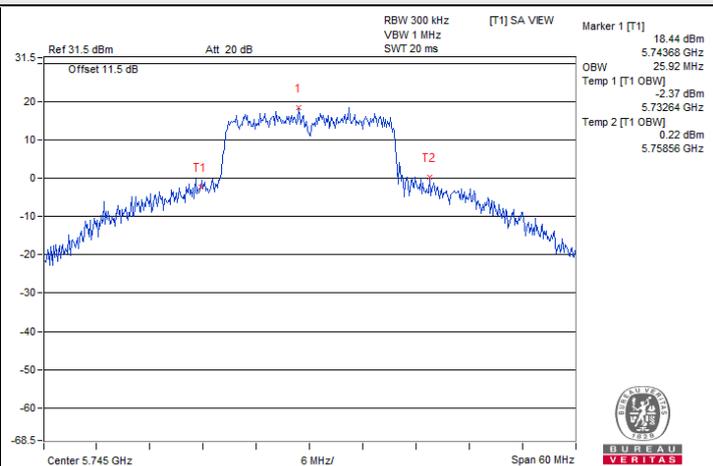
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)		
		Chain 0	Chain 1	Chain 2
50 (U-NII-1)	5250	78.72	78.72	78.72
50 (U-NII-2A)	5250	78.72	78.72	77.76
114	5570	155.52	157.44	157.44



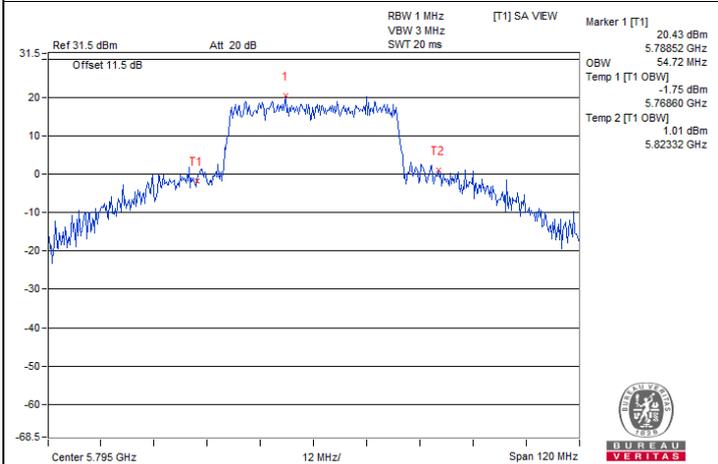
### Spectrum Plot of Maximum Value



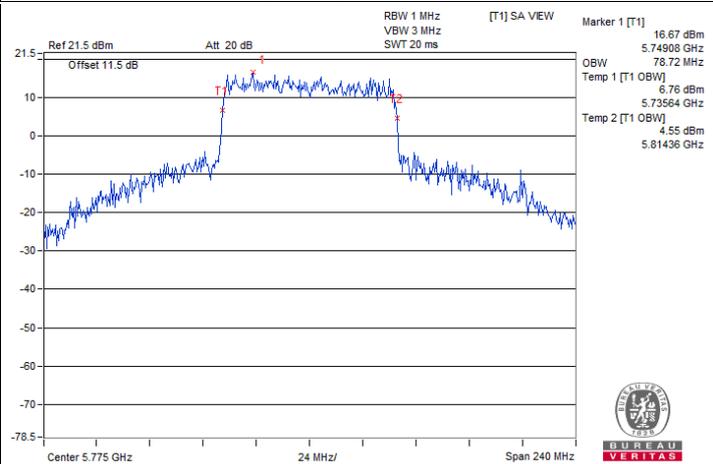
802.11a / Chain2 : CH 157



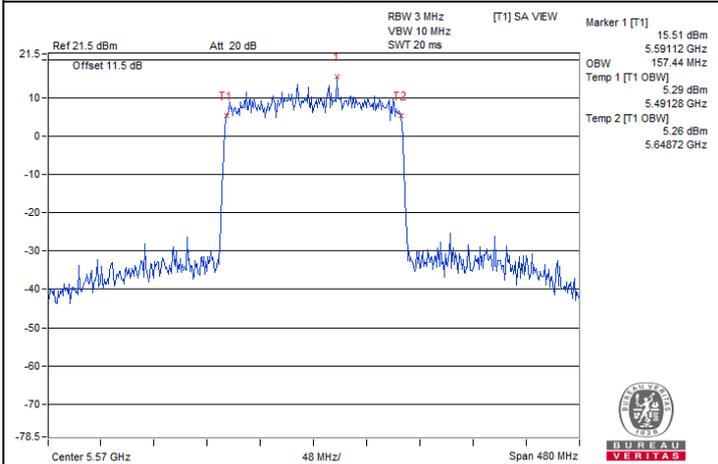
802.11ax (HE20) / Chain2 : CH 149



802.11ax (HE40) / Chain2 : CH 159

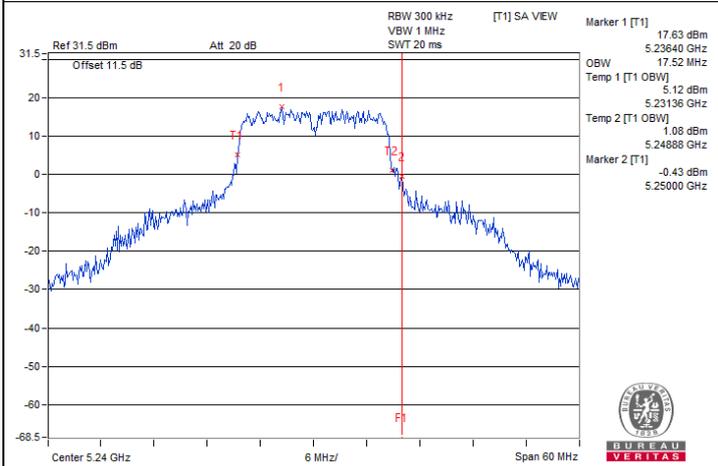


802.11ax (HE80) / Chain0 : CH 155

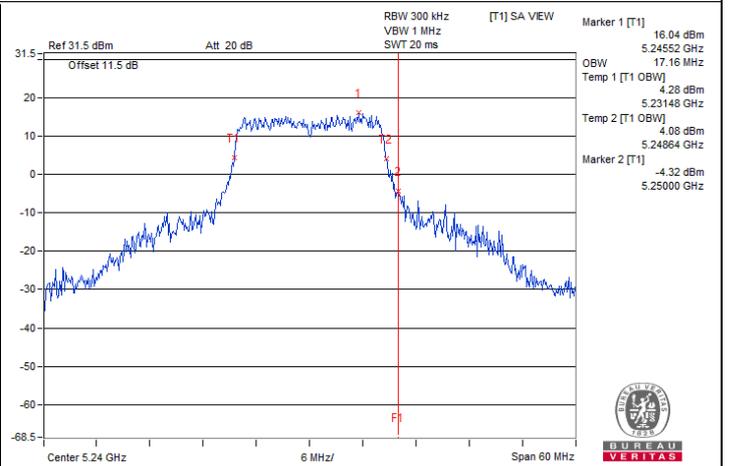


802.11ax (HE160) / Chain1 : CH 114

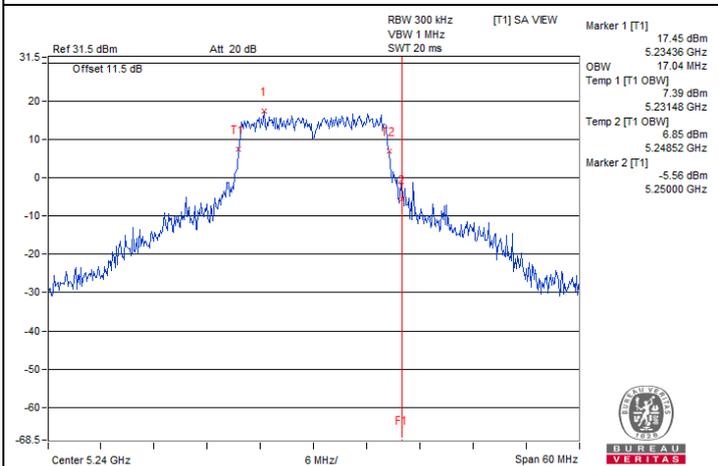
### Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)



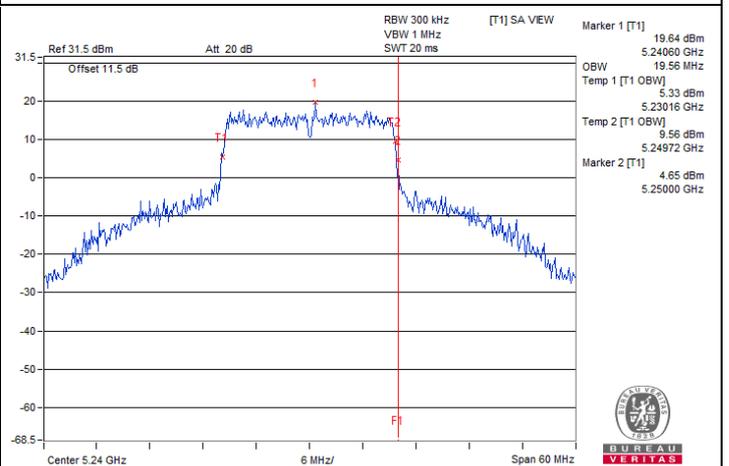
802.11a / Chain 0 : CH 48



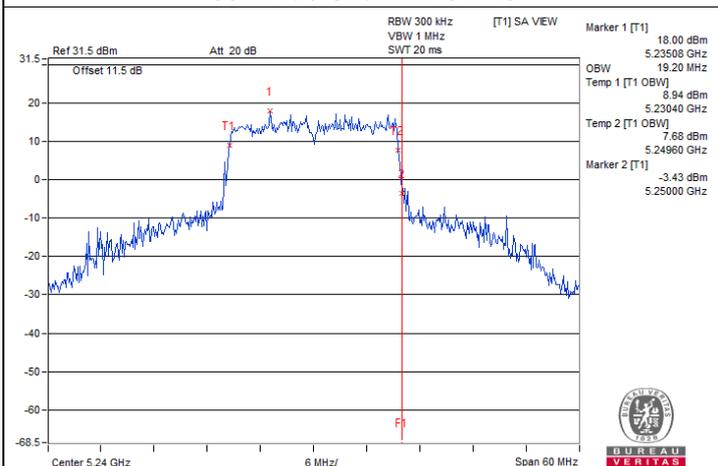
802.11a / Chain 1 : CH 48



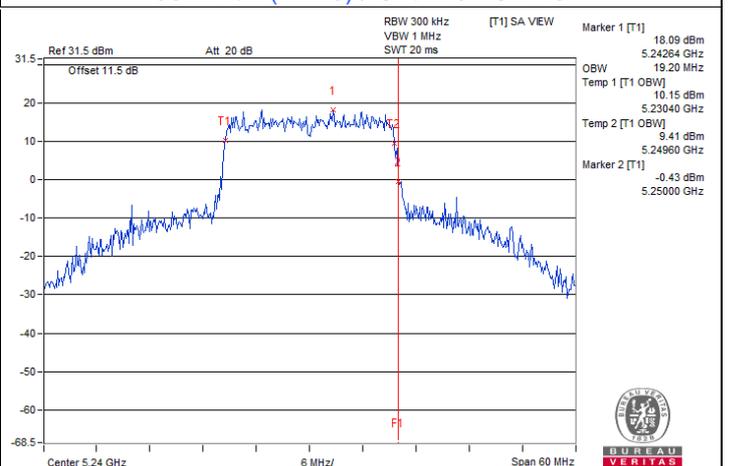
802.11a / Chain 2 : CH 48



802.11ax (HE20) / Chain 0 : CH 48

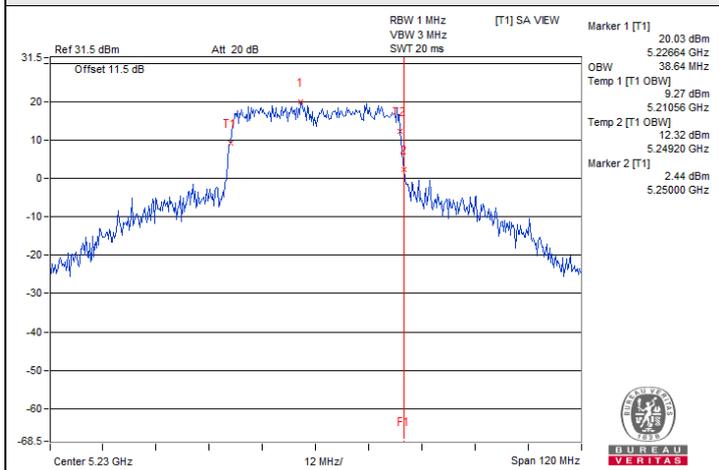


802.11ax (HE20) / Chain 1 : CH 48

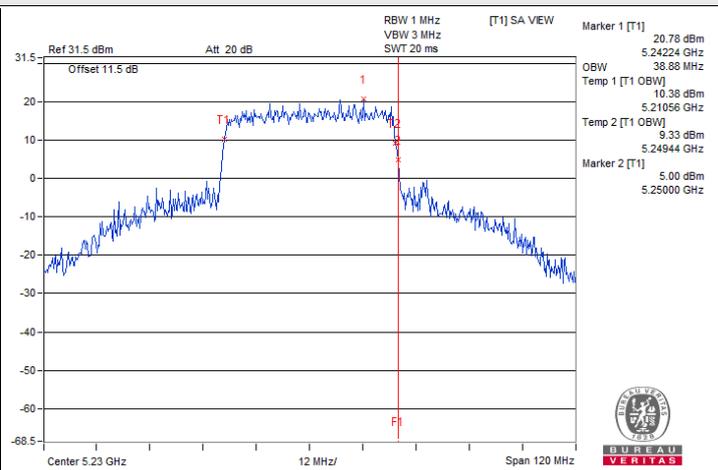


802.11ax (HE20) / Chain 2 : CH 48

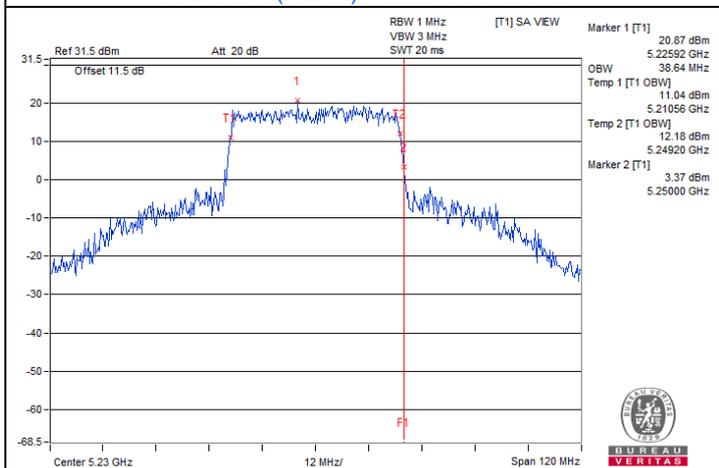
### Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)



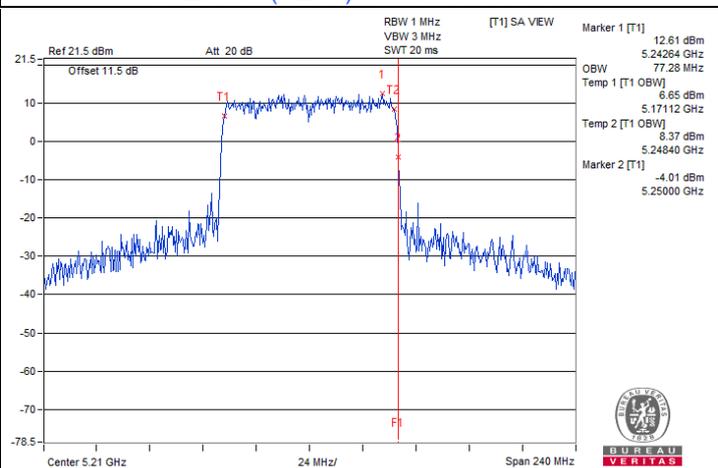
802.11ax (HE40) / Chain 0 : CH 46



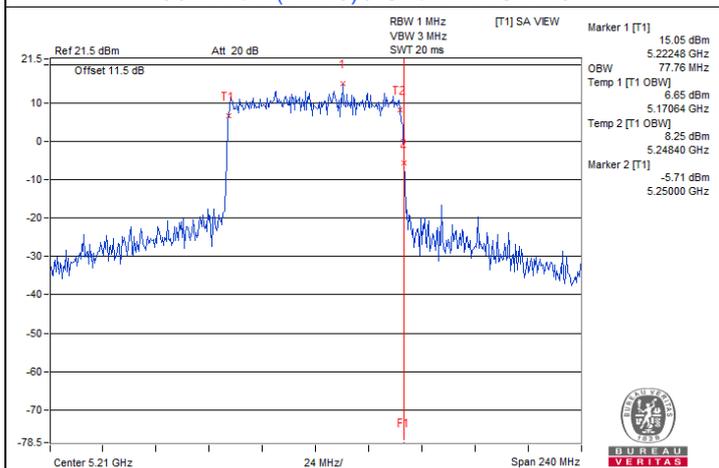
802.11ax (HE40) / Chain 1 : CH 46



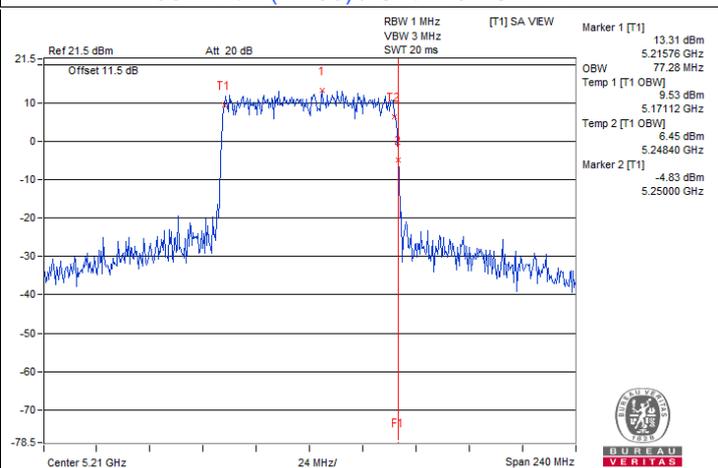
802.11ax (HE40) / Chain 2 : CH 46



802.11ax (HE80) / Chain 0 : CH 42

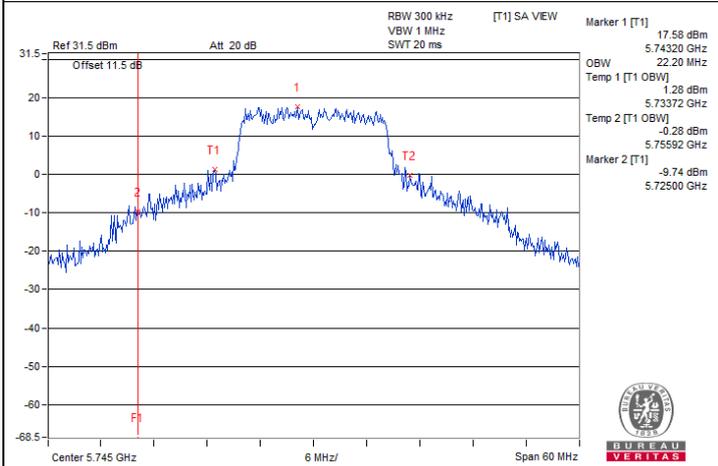


802.11ax (HE80) / Chain 1 : CH 42

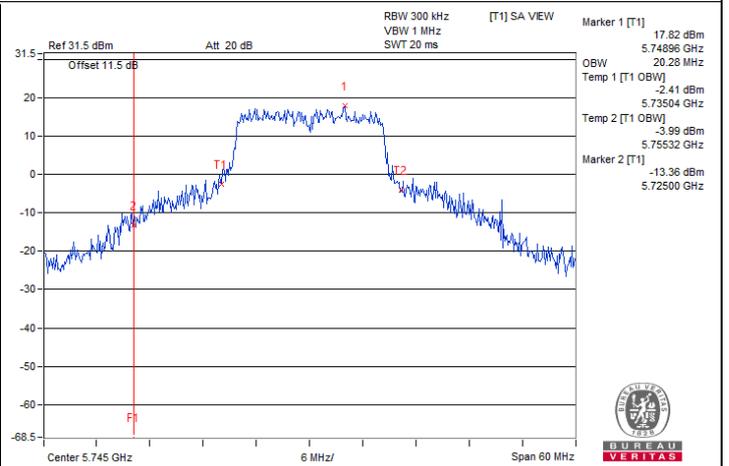


802.11ax (HE80) / Chain 2 : CH 42

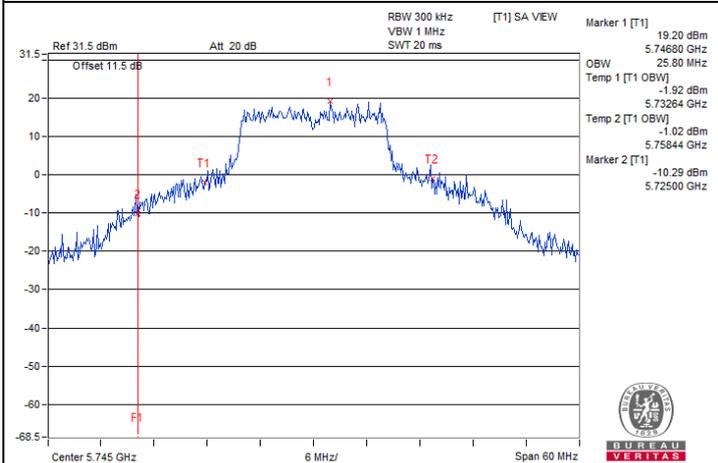
**Spectrum Plot for nearby DFS band**  
(DFS is required, if 99% OCP straddle into U-NII-2C band)



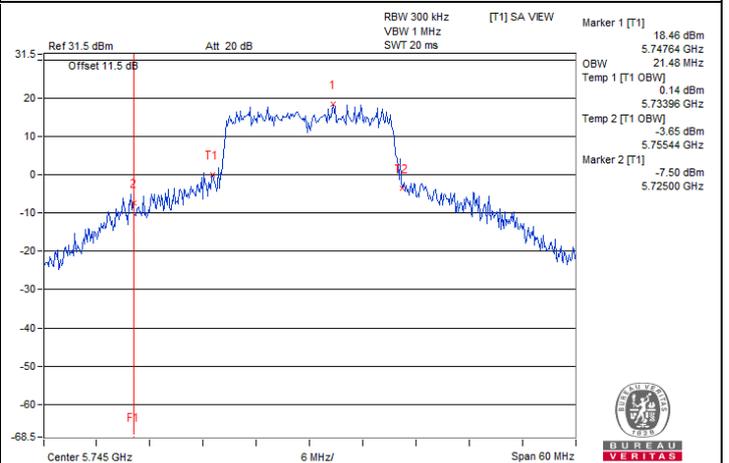
**802.11a / Chain 0 : CH 149**



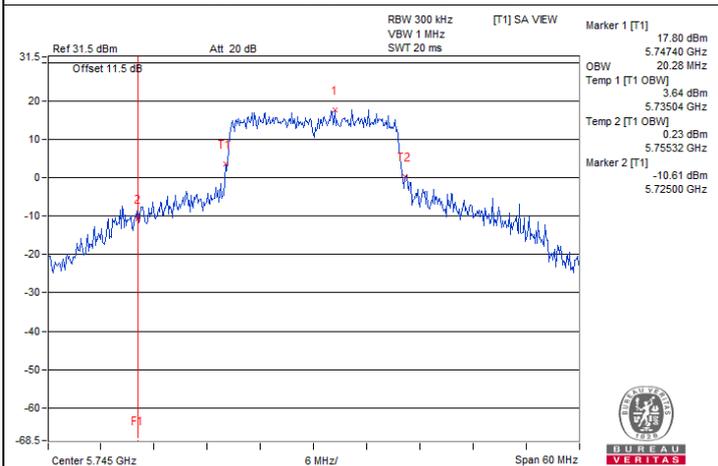
**802.11a / Chain 1 : CH 149**



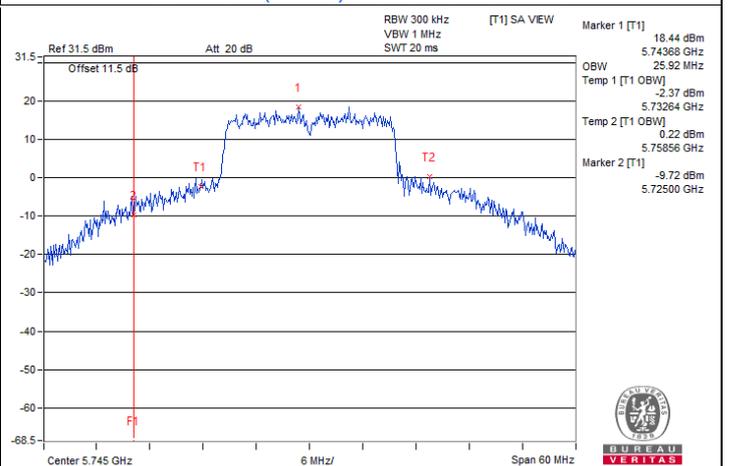
**802.11a / Chain 2 : CH 149**



**802.11ax (HE20) / Chain 0 : CH 149**

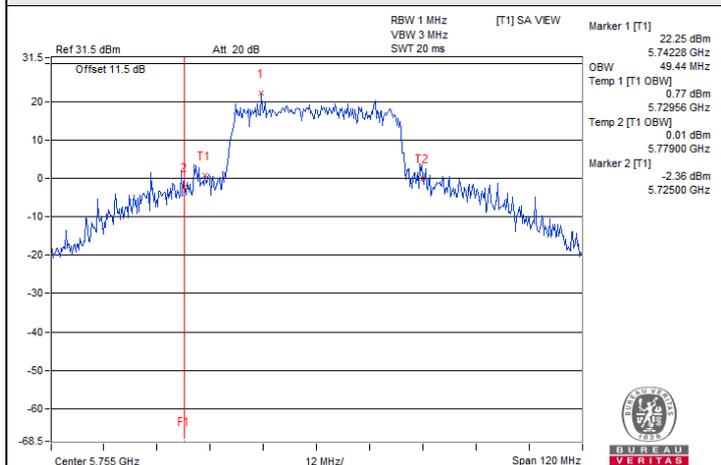
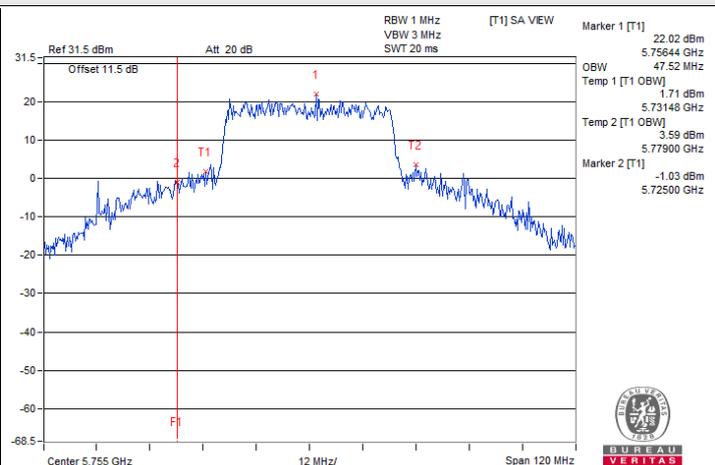
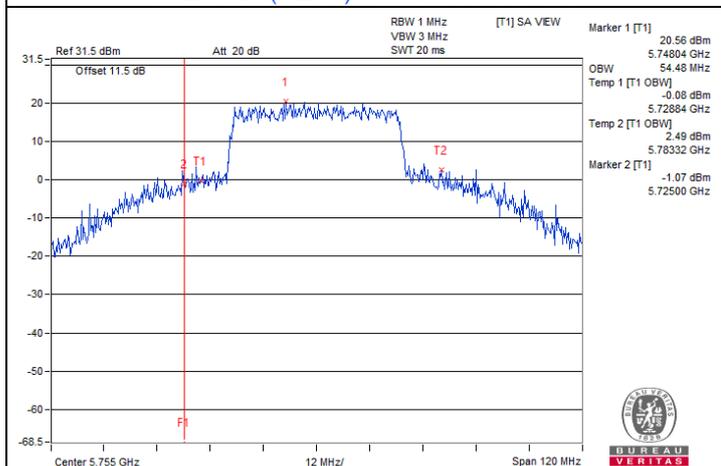
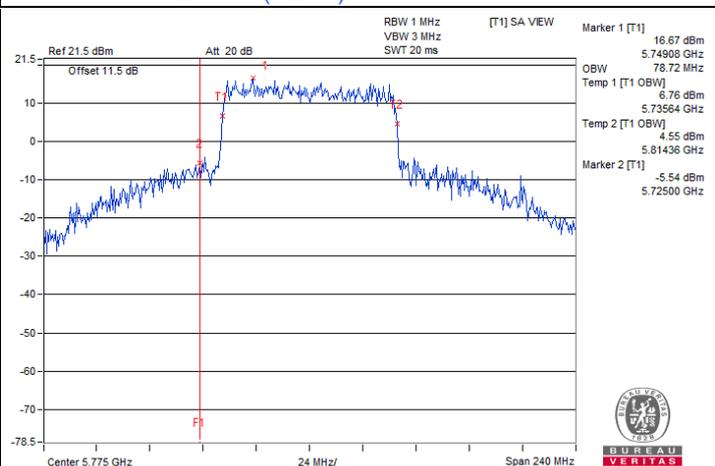
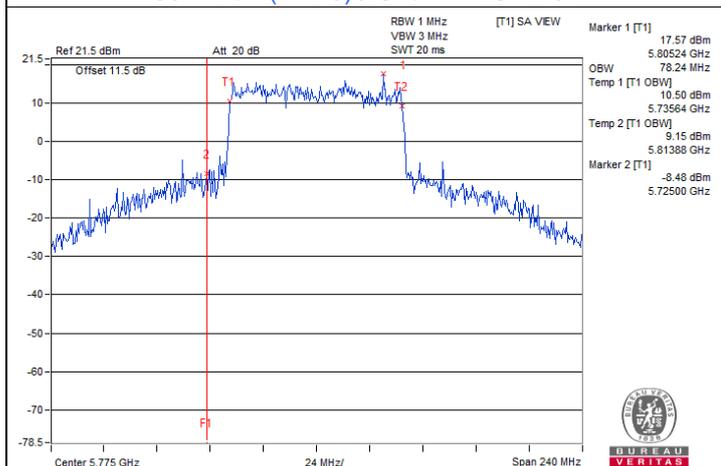
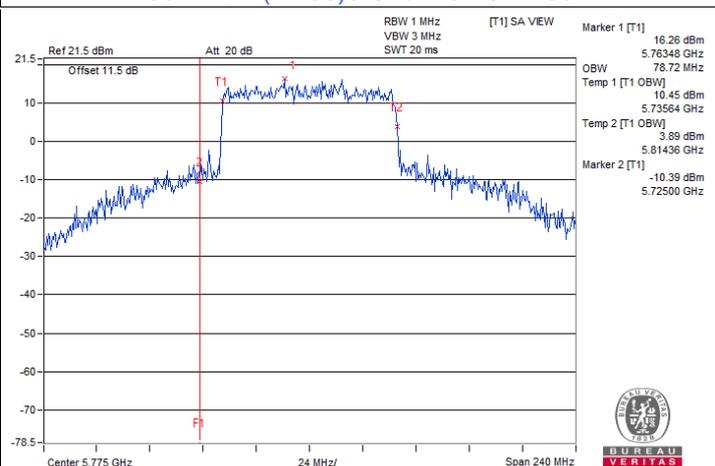


**802.11ax (HE20) / Chain 1 : CH 149**



**802.11ax (HE20) / Chain 2 : CH 149**

### Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)

**802.11ax (HE40) / Chain 0 : CH 151****802.11ax (HE40) / Chain 1 : CH 151****802.11ax (HE40) / Chain 2 : CH 151****802.11ax (HE80) / Chain 0 : CH 155****802.11ax (HE80) / Chain 1 : CH 155****802.11ax (HE80) / Chain 2 : CH 155**

## 7.6 Frequency Stability

### Mode A

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	23 °C, 66 % RH	Tested By:	Eric Peng
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#### 802.11a

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result						
40	120	5179.9748	Pass	5179.9765	Pass	5179.9736	Pass	5179.9743	Pass
30	120	5179.9957	Pass	5179.9959	Pass	5179.9985	Pass	5179.9963	Pass
20	120	5180.0063	Pass	5180.0057	Pass	5180.0092	Pass	5180.0098	Pass
10	120	5180.0051	Pass	5180.0018	Pass	5180.0028	Pass	5180.0032	Pass
0	120	5180.0181	Pass	5180.0214	Pass	5180.0218	Pass	5180.0196	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result						
20	138	5180.0036	Pass	5180.003	Pass	5180.0048	Pass	5180.0042	Pass
	120	5180.0063	Pass	5180.0057	Pass	5180.0092	Pass	5180.0098	Pass
	102	5180.0048	Pass	5180.007	Pass	5180.0043	Pass	5180.0068	Pass

**Mode B**

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Eric Peng
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**802.11a**

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result						
40	120	5179.9945	Pass	5179.9933	Pass	5179.9938	Pass	5179.9945	Pass
30	120	5179.9803	Pass	5179.9766	Pass	5179.9804	Pass	5179.9801	Pass
20	120	5180.0243	Pass	5180.0233	Pass	5180.0228	Pass	5180.02	Pass
10	120	5180.0058	Pass	5180.0105	Pass	5180.008	Pass	5180.0087	Pass
0	120	5180.0215	Pass	5180.0185	Pass	5180.0222	Pass	5180.0204	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result						
20	138	5180.0122	Pass	5180.0154	Pass	5180.0162	Pass	5180.0134	Pass
	120	5180.0243	Pass	5180.0233	Pass	5180.0228	Pass	5180.02	Pass
	102	5180.0191	Pass	5180.0214	Pass	5180.0184	Pass	5180.0168	Pass

## 7.7 AC Power Conducted Emissions

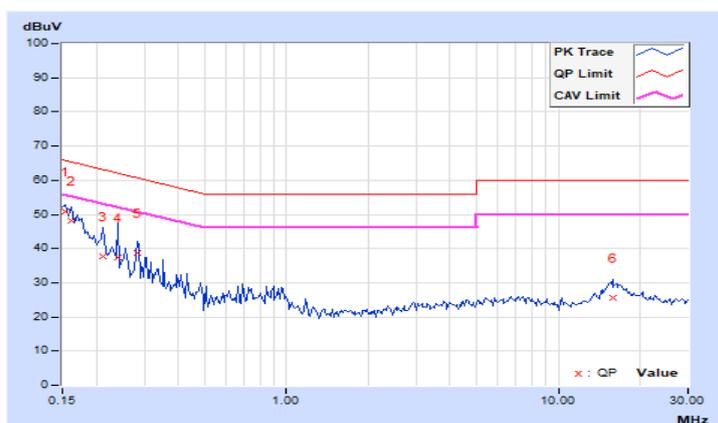
### Mode A

RF Mode	TX 802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75 % RH
Tested By	Ryan Du		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	10.07	40.68	22.93	50.75	33.00	65.79	55.79	-15.04	-22.79
2	0.16172	10.07	38.06	21.32	48.13	31.39	65.38	55.38	-17.25	-23.99
3	0.21250	10.08	27.76	13.27	37.84	23.35	63.11	53.11	-25.27	-29.76
4	0.23984	10.09	27.38	6.68	37.47	16.77	62.10	52.10	-24.63	-35.33
5	0.28281	10.09	28.68	17.93	38.77	28.02	60.73	50.73	-21.96	-22.71
6	15.86328	11.25	14.22	8.41	25.47	19.66	60.00	50.00	-34.53	-30.34

#### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

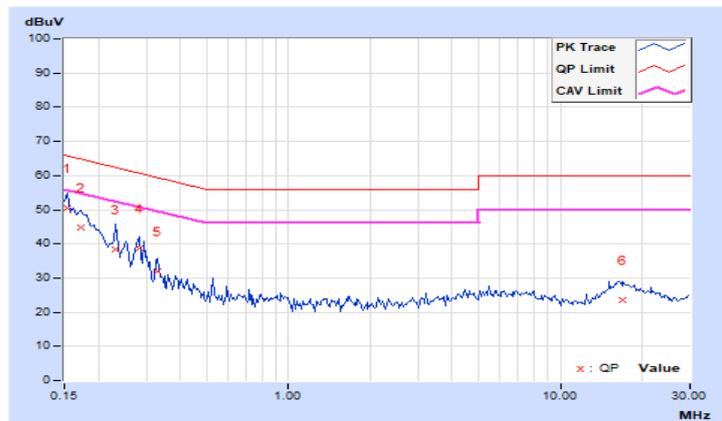


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	150 kHz ~ 30 MHz	<b>Detector Function &amp; Resolution Bandwidth</b>	Quasi-Peak (QP) / Average (AV), 9 kHz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	25 °C, 75 % RH
<b>Tested By</b>	Ryan Du		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	10.05	40.57	23.28	50.62	33.33	65.79	55.79	-15.17	-22.46
2	0.17344	10.06	34.63	18.94	44.69	29.00	64.79	54.79	-20.10	-25.79
3	0.23203	10.08	28.26	15.44	38.34	25.52	62.38	52.38	-24.04	-26.86
4	0.28281	10.09	28.58	16.40	38.67	26.49	60.73	50.73	-22.06	-24.24
5	0.32969	10.09	22.06	8.58	32.15	18.67	59.46	49.46	-27.31	-30.79
6	17.03906	11.11	12.62	6.55	23.73	17.66	60.00	50.00	-36.27	-32.34

**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



## Mode B

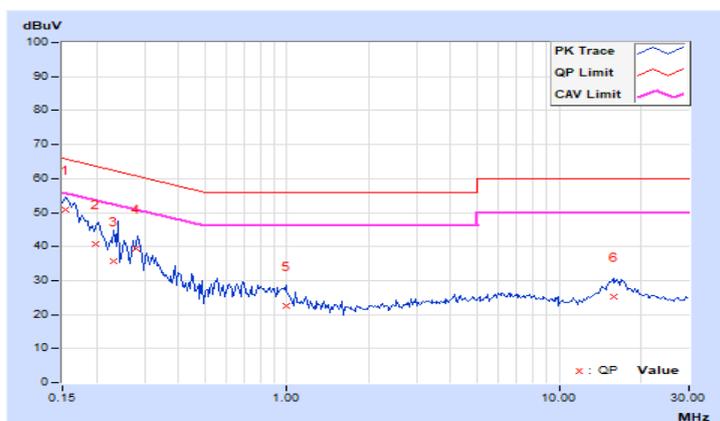
RF Mode	TX 802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 66% RH
Tested By	Tom Yang		

### Phase Of Power : Line (L)

No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15473	10.05	40.65	23.89	50.70	33.94	65.74	55.74	-15.04	-21.80
2	0.19943	10.05	30.56	17.44	40.61	27.49	63.63	53.63	-23.02	-26.14
3	0.23137	10.05	25.52	9.21	35.57	19.26	62.40	52.40	-26.83	-33.14
4	0.27943	10.06	29.41	20.46	39.47	30.52	60.83	50.83	-21.36	-20.31
5	0.99074	10.11	12.35	2.37	22.46	12.48	56.00	46.00	-33.54	-33.52
6	15.87920	10.97	14.15	8.17	25.12	19.14	60.00	50.00	-34.88	-30.86

#### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

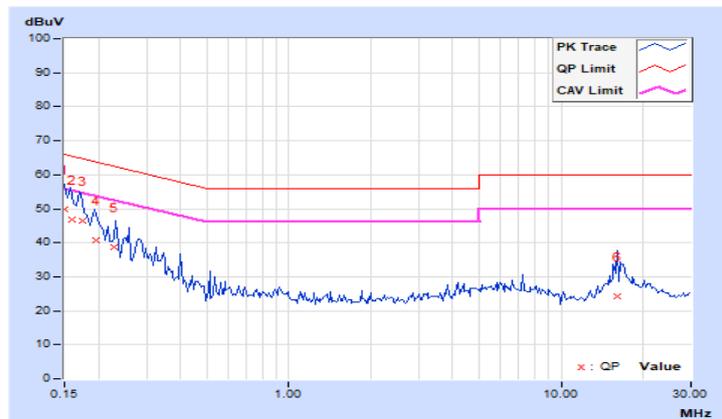


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	150 kHz ~ 30 MHz	<b>Detector Function &amp; Resolution Bandwidth</b>	Quasi-Peak (QP) / Average (AV), 9 kHz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	25°C, 66% RH
<b>Tested By</b>	Tom Yang		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15043	10.05	39.73	23.31	49.78	33.36	65.98	55.98	-16.20	-22.62
2	0.15907	10.06	36.82	22.40	46.88	32.46	65.51	55.51	-18.63	-23.05
3	0.17392	10.06	36.54	19.07	46.60	29.13	64.77	54.77	-18.17	-25.64
4	0.19547	10.08	30.52	12.73	40.60	22.81	63.80	53.80	-23.20	-30.99
5	0.22819	10.08	28.54	15.41	38.62	25.49	62.52	52.52	-23.90	-27.03
6	16.18762	11.06	13.27	7.43	24.33	18.49	60.00	50.00	-35.67	-31.51

**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



## Mode C

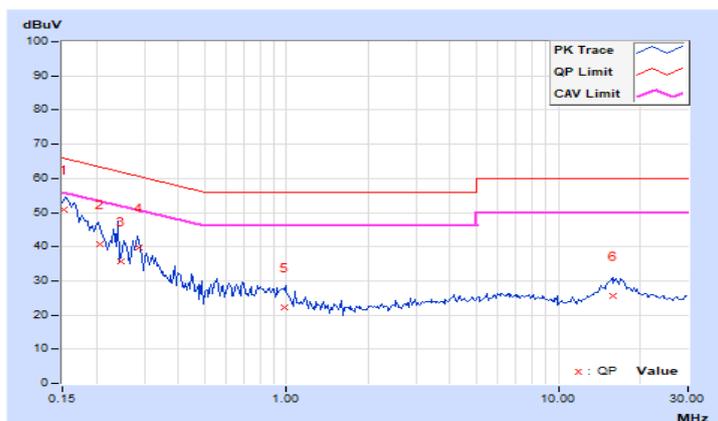
RF Mode	TX 802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 66% RH
Tested By	Tom Yang		

### Phase Of Power : Line (L)

No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15137	10.07	40.64	23.88	50.71	33.95	65.92	55.92	-15.21	-21.97
2	0.20715	10.08	30.59	17.63	40.67	27.71	63.32	53.32	-22.65	-25.61
3	0.24571	10.09	25.53	9.19	35.62	19.28	61.90	51.90	-26.28	-32.62
4	0.28655	10.09	29.62	20.63	39.71	30.72	60.62	50.62	-20.91	-19.90
5	0.97986	10.15	12.15	2.54	22.30	12.69	56.00	46.00	-33.70	-33.31
6	15.89151	11.25	14.26	8.37	25.51	19.62	60.00	50.00	-34.49	-30.38

### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

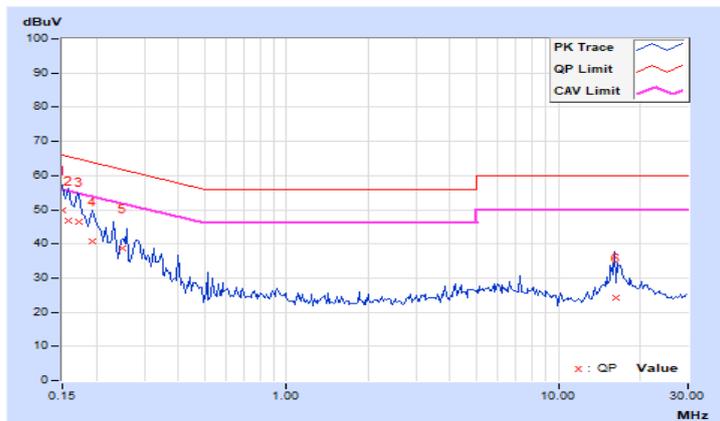


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	150 kHz ~ 30 MHz	<b>Detector Function &amp; Resolution Bandwidth</b>	Quasi-Peak (QP) / Average (AV), 9 kHz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	25°C, 66% RH
<b>Tested By</b>	Tom Yang		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15015	10.05	39.74	23.53	49.79	33.58	65.99	55.99	-16.20	-22.41
2	0.15862	10.06	36.63	22.15	46.69	32.21	65.54	55.54	-18.85	-23.33
3	0.17155	10.06	36.56	19.07	46.62	29.13	64.89	54.89	-18.27	-25.76
4	0.19437	10.08	30.52	12.76	40.60	22.84	63.85	53.85	-23.25	-31.01
5	0.24926	10.08	28.64	15.48	38.72	25.56	61.78	51.78	-23.06	-26.22
6	16.20157	11.06	13.26	7.41	24.32	18.47	60.00	50.00	-35.68	-31.53

**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



## 7.8 Unwanted Emissions below 1 GHz

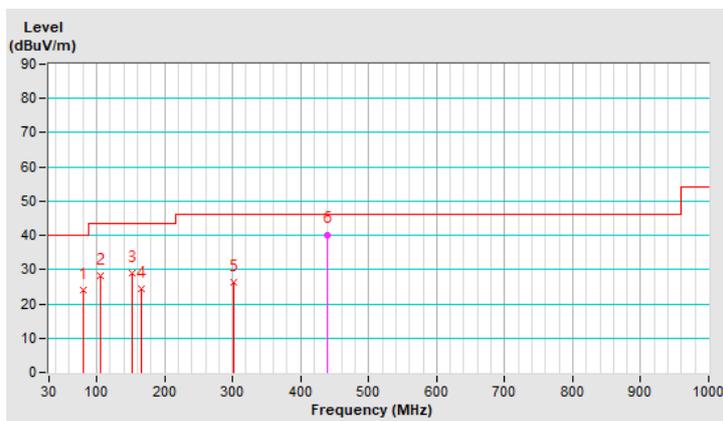
### Mode A

<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	9 kHz ~ 1 GHz	<b>Detector Function &amp; Bandwidth</b>	(QP) RB = 120kHz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Ryan Du		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	80.06	24.1 QP	40.0	-15.9	2.00 H	267	41.1	-17.0
2	105.09	28.2 QP	43.5	-15.3	2.00 H	186	43.5	-15.3
3	152.41	29.0 QP	43.5	-14.5	1.00 H	62	40.6	-11.6
4	166.73	24.4 QP	43.5	-19.1	1.00 H	151	36.4	-12.0
5	300.66	26.3 QP	46.0	-19.7	2.00 H	134	36.7	-10.4
6	440.02	40.2 QP	46.0	-5.8	2.00 H	167	46.1	-5.9

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

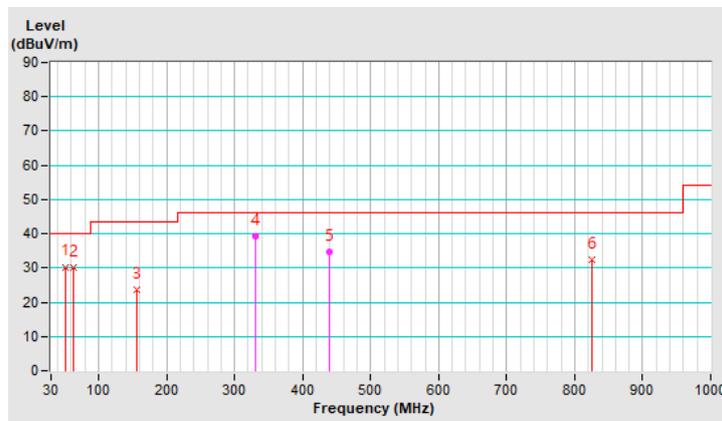


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	9 kHz ~ 1 GHz	<b>Detector Function &amp; Bandwidth</b>	(QP) RB = 120kHz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	51.11	30.3 QP	40.0	-9.7	1.00 V	13	42.5	-12.2
2	63.21	30.2 QP	40.0	-9.8	2.00 V	18	43.5	-13.3
3	156.38	23.5 QP	43.5	-20.0	2.00 V	2	35.1	-11.6
4	330.01	39.4 QP	46.0	-6.6	1.50 V	46	48.8	-9.4
5	440.03	34.8 QP	46.0	-11.2	1.50 V	67	40.7	-5.9
6	825.03	32.5 QP	46.0	-13.5	2.00 V	294	30.3	2.2

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



## Mode B

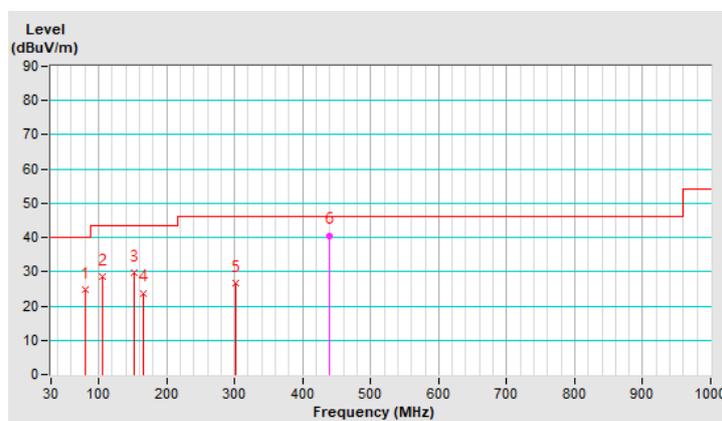
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	9 kHz ~ 1 GHz	<b>Detector Function &amp; Bandwidth</b>	(QP) RB = 120kHz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Tom Yang		

### Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	79.96	24.8 QP	40.0	-15.2	2.00 H	275	41.7	-16.9
2	104.95	28.7 QP	43.5	-14.8	2.00 H	169	44.0	-15.3
3	152.70	29.7 QP	43.5	-13.8	1.00 H	92	41.3	-11.6
4	166.39	23.8 QP	43.5	-19.7	1.50 H	186	35.8	-12.0
5	300.94	26.6 QP	46.0	-19.4	2.00 H	164	37.0	-10.4
6	439.93	40.6 QP	46.0	-5.4	1.50 H	193	46.5	-5.9

### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

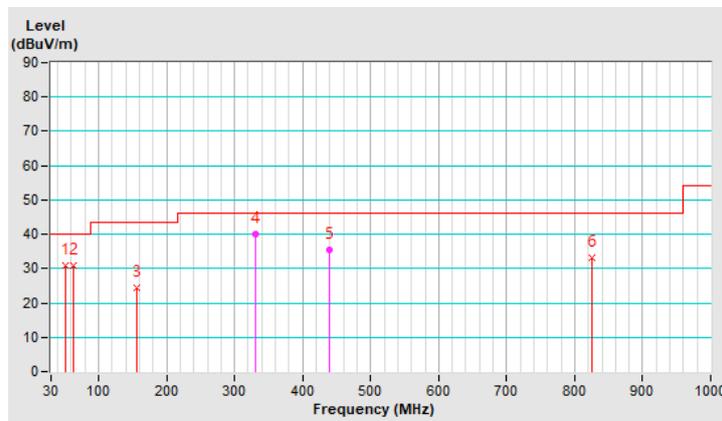


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	9 kHz ~ 1 GHz	<b>Detector Function &amp; Bandwidth</b>	(QP) RB = 120kHz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Tom Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	50.89	30.8 QP	40.0	-9.2	1.00 V	6	43.0	-12.2
2	63.58	31.0 QP	40.0	-9.0	1.50 V	11	44.2	-13.2
3	156.74	24.3 QP	43.5	-19.2	2.00 V	224	35.9	-11.6
4	329.80	40.0 QP	46.0	-6.0	1.50 V	89	49.5	-9.5
5	439.92	35.5 QP	46.0	-10.5	2.00 V	356	41.4	-5.9
6	825.28	33.1 QP	46.0	-12.9	1.00 V	326	30.9	2.2

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



## Mode C

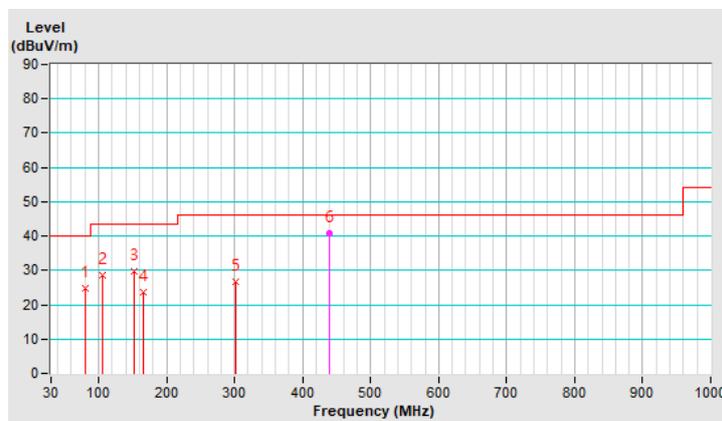
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	9 kHz ~ 1 GHz	<b>Detector Function &amp; Bandwidth</b>	(QP) RB = 120kHz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Tom Yang		

### Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	80.26	24.7 QP	40.0	-15.3	2.00 H	276	41.7	-17.0
2	104.74	28.5 QP	43.5	-15.0	1.50 H	165	43.9	-15.4
3	152.80	29.7 QP	43.5	-13.8	1.50 H	81	41.3	-11.6
4	165.23	23.7 QP	43.5	-19.8	1.00 H	126	35.6	-11.9
5	300.84	26.8 QP	46.0	-19.2	2.00 H	185	37.2	-10.4
6	<b>439.69</b>	<b>40.9 QP</b>	<b>46.0</b>	<b>-5.1</b>	<b>2.00 H</b>	<b>191</b>	<b>46.8</b>	<b>-5.9</b>

### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

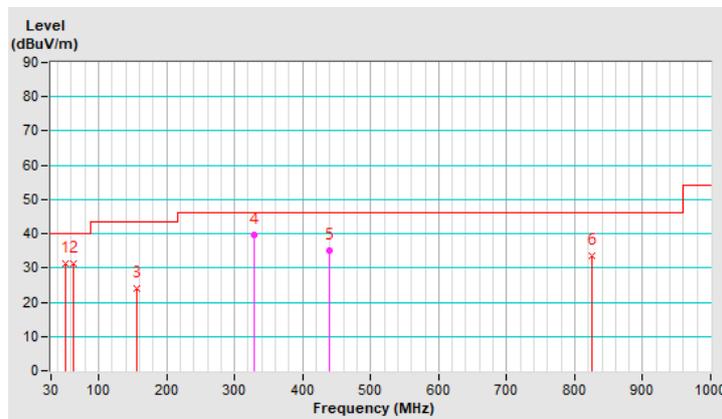


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	9 kHz ~ 1 GHz	<b>Detector Function &amp; Bandwidth</b>	(QP) RB = 120kHz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20°C, 70% RH
<b>Tested By</b>	Tom Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	51.09	31.4 QP	40.0	-8.6	2.00 V	14	43.6	-12.2
2	63.11	31.4 QP	40.0	-8.6	2.00 V	36	44.7	-13.3
3	155.41	23.9 QP	43.5	-19.6	1.50 V	247	35.4	-11.5
4	329.37	39.6 QP	46.0	-6.4	1.50 V	66	49.1	-9.5
5	439.40	35.1 QP	46.0	-10.9	2.00 V	6	41.0	-5.9
6	825.51	33.5 QP	46.0	-12.5	1.00 V	357	31.3	2.2

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



## 7.9 Unwanted Emissions above 1 GHz

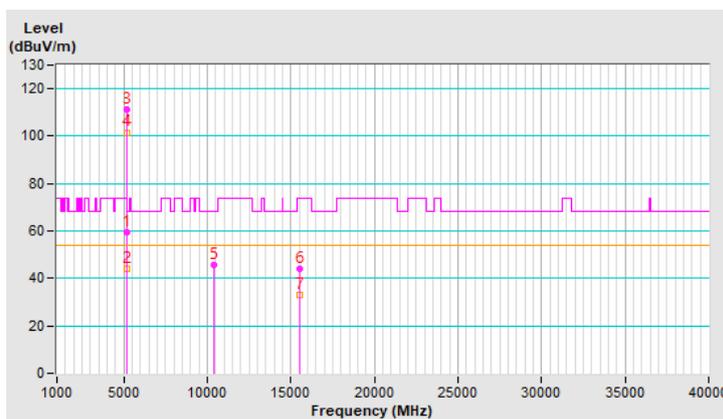
### Mode A

<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 36 : 5180 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.5 PK	74.0	-14.5	1.51 H	355	58.5	1.0
2	5150.00	44.2 AV	54.0	-9.8	1.51 H	355	43.2	1.0
3	*5180.00	111.1 PK			1.51 H	355	110.4	0.7
4	*5180.00	101.6 AV			1.51 H	355	100.9	0.7
5	#10360.00	45.6 PK	68.2	-22.6	1.78 H	243	35.1	10.5
6	15540.00	44.1 PK	74.0	-29.9	1.88 H	302	32.6	11.5
7	15540.00	32.8 AV	54.0	-21.2	1.88 H	302	21.3	11.5

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



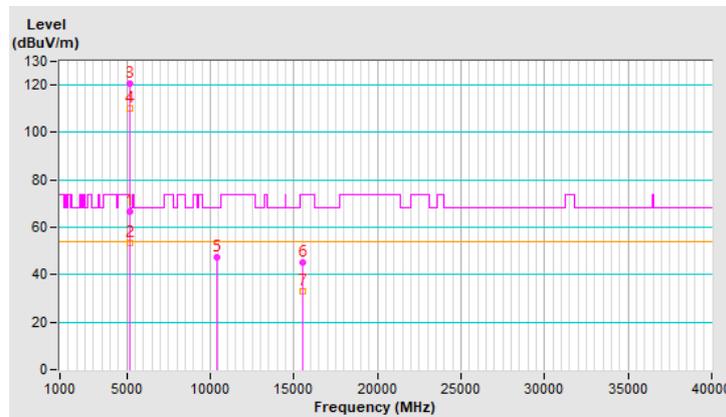
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 36 : 5180 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.7 PK	74.0	-7.3	2.45 V	228	65.7	1.0
2	5150.00	53.6 AV	54.0	-0.4	2.45 V	228	52.6	1.0
3	*5180.00	120.7 PK			2.45 V	228	120.0	0.7
4	*5180.00	110.4 AV			2.45 V	228	109.7	0.7
5	#10360.00	47.1 PK	68.2	-21.1	2.46 V	321	36.6	10.5
6	15540.00	45.2 PK	74.0	-28.8	2.23 V	158	33.7	11.5
7	15540.00	33.1 AV	54.0	-20.9	2.23 V	158	21.6	11.5

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



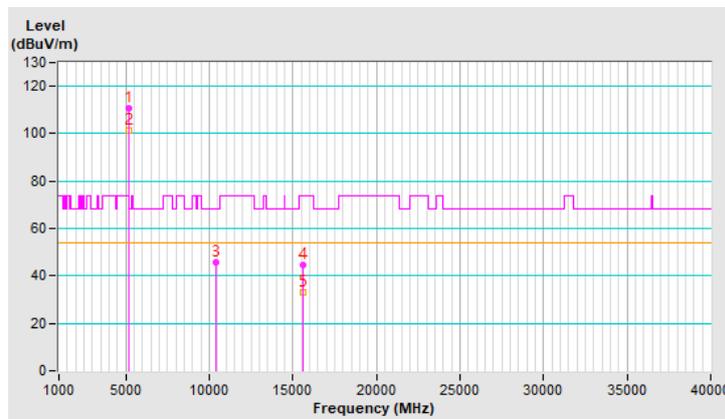
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	110.7 PK			1.45 H	344	110.1	0.6
2	*5200.00	101.2 AV			1.45 H	344	100.6	0.6
3	#10400.00	45.5 PK	68.2	-22.7	1.75 H	243	34.8	10.7
4	15600.00	44.4 PK	74.0	-29.6	1.86 H	291	32.7	11.7
5	15600.00	32.9 AV	54.0	-21.1	1.86 H	291	21.2	11.7

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

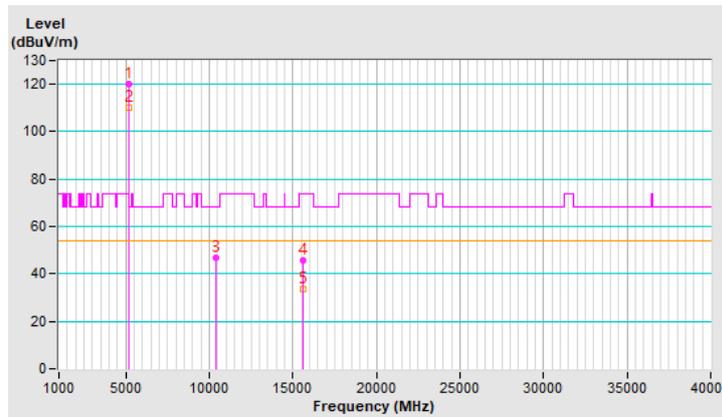


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	120.2 PK			2.51 V	229	119.6	0.6
2	*5200.00	110.2 AV			2.51 V	229	109.6	0.6
3	#10400.00	47.0 PK	68.2	-21.2	2.47 V	310	36.3	10.7
4	15600.00	45.7 PK	74.0	-28.3	2.19 V	145	34.0	11.7
5	15600.00	33.4 AV	54.0	-20.6	2.19 V	145	21.7	11.7

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



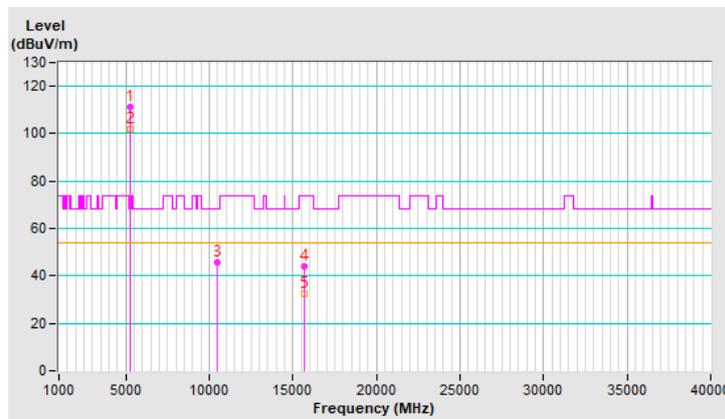
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 48 : 5240 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	111.4 PK			1.45 H	360	111.0	0.4
2	*5240.00	101.7 AV			1.45 H	360	101.3	0.4
3	#10480.00	45.8 PK	68.2	-22.4	1.83 H	250	35.3	10.5
4	15720.00	43.8 PK	74.0	-30.2	1.88 H	306	32.3	11.5
5	15720.00	32.6 AV	54.0	-21.4	1.88 H	306	21.1	11.5

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

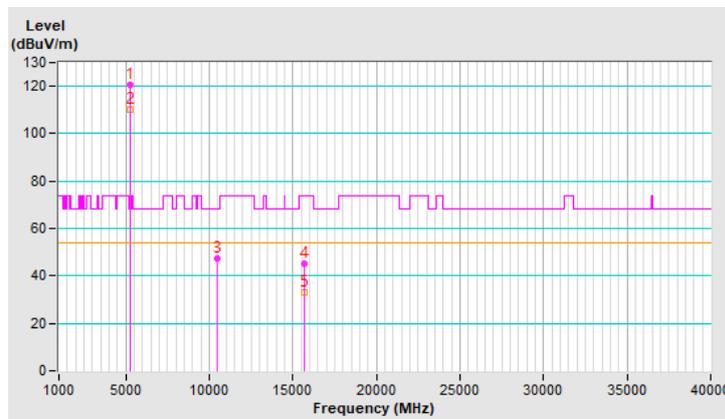


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 48 : 5240 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	120.6 PK			2.50 V	228	120.2	0.4
2	*5240.00	110.4 AV			2.50 V	228	110.0	0.4
3	#10480.00	47.1 PK	68.2	-21.1	2.41 V	313	36.6	10.5
4	15720.00	45.1 PK	74.0	-28.9	2.19 V	144	33.6	11.5
5	15720.00	32.9 AV	54.0	-21.1	2.19 V	144	21.4	11.5

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



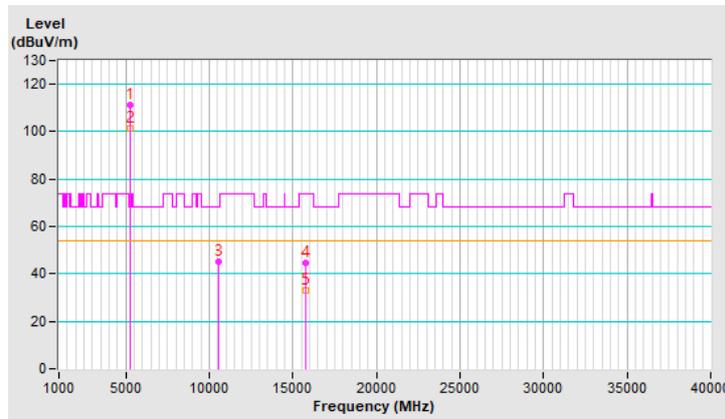
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 52 : 5260 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5260.00	111.3 PK			1.42 H	341	111.0	0.3
2	*5260.00	101.5 AV			1.42 H	341	101.2	0.3
3	#10520.00	45.0 PK	68.2	-23.2	1.79 H	230	34.6	10.4
4	15780.00	44.6 PK	74.0	-29.4	1.84 H	295	33.2	11.4
5	15780.00	33.2 AV	54.0	-20.8	1.84 H	295	21.8	11.4

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

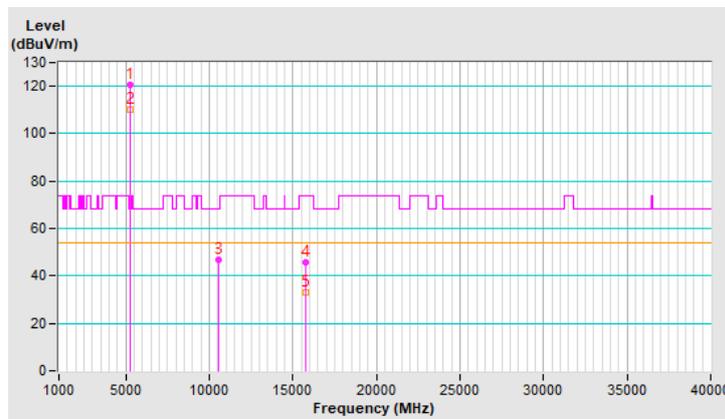


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 52 : 5260 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5260.00	120.8 PK			2.39 V	243	120.5	0.3
2	*5260.00	110.4 AV			2.39 V	243	110.1	0.3
3	#10520.00	46.9 PK	68.2	-21.3	2.42 V	316	36.5	10.4
4	15780.00	45.5 PK	74.0	-28.5	2.26 V	151	34.1	11.4
5	15780.00	33.2 AV	54.0	-20.8	2.26 V	151	21.8	11.4

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

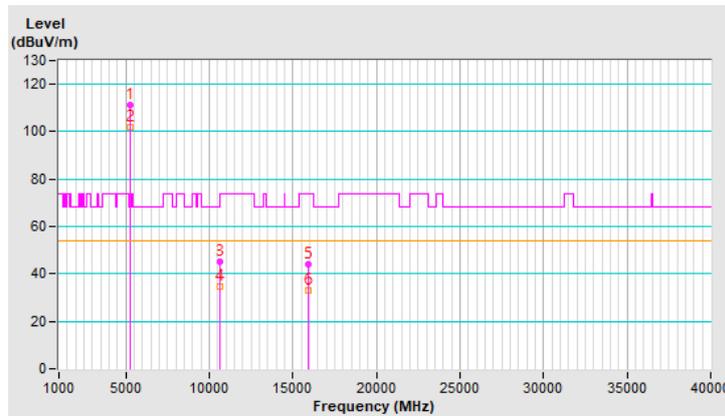


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 60 : 5300 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	111.2 PK			1.48 H	360	110.9	0.3
2	*5300.00	101.7 AV			1.48 H	360	101.4	0.3
3	10600.00	45.3 PK	74.0	-28.7	1.81 H	250	35.4	9.9
4	10600.00	34.5 AV	54.0	-19.5	1.81 H	250	24.6	9.9
5	15900.00	44.2 PK	74.0	-29.8	1.87 H	305	32.6	11.6
6	15900.00	33.0 AV	54.0	-21.0	1.87 H	305	21.4	11.6

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.

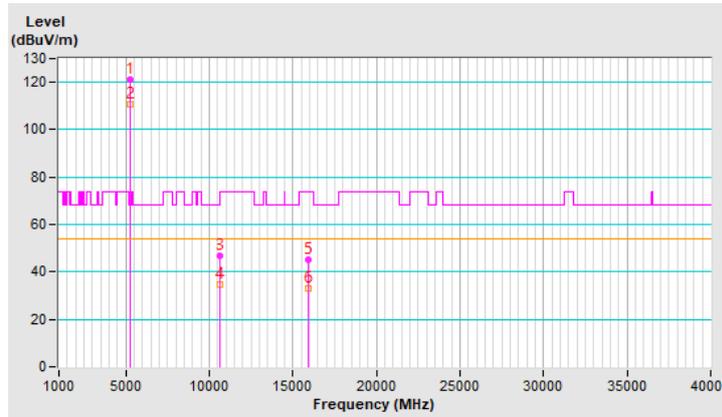


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 60 : 5300 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	121.0 PK			2.40 V	237	120.7	0.3
2	*5300.00	110.6 AV			2.40 V	237	110.3	0.3
3	10600.00	46.8 PK	74.0	-27.2	2.42 V	323	36.9	9.9
4	10600.00	34.8 AV	54.0	-19.2	2.42 V	323	24.9	9.9
5	15900.00	45.2 PK	74.0	-28.8	2.24 V	167	33.6	11.6
6	15900.00	33.1 AV	54.0	-20.9	2.24 V	167	21.5	11.6

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.



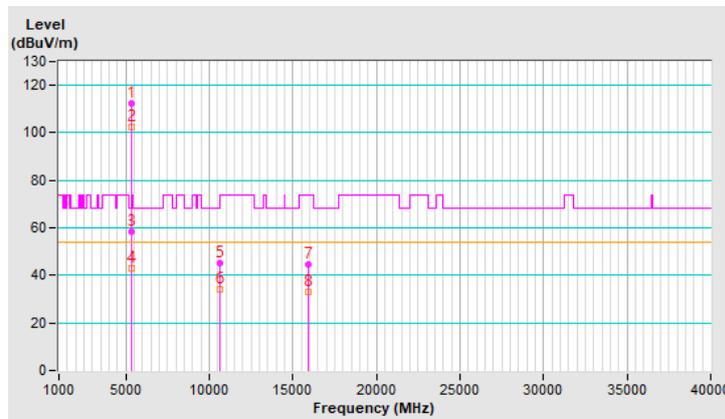
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 64 : 5320 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	112.6 PK			1.37 H	295	112.2	0.4
2	*5320.00	102.2 AV			1.37 H	295	101.8	0.4
3	5350.00	58.6 PK	74.0	-15.4	1.37 H	295	58.0	0.6
4	5350.00	43.1 AV	54.0	-10.9	1.37 H	295	42.5	0.6
5	10640.00	45.1 PK	74.0	-28.9	1.81 H	238	35.0	10.1
6	10640.00	34.1 AV	54.0	-19.9	1.81 H	238	24.0	10.1
7	15960.00	44.4 PK	74.0	-29.6	1.84 H	302	32.6	11.8
8	15960.00	32.9 AV	54.0	-21.1	1.84 H	302	21.1	11.8

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.

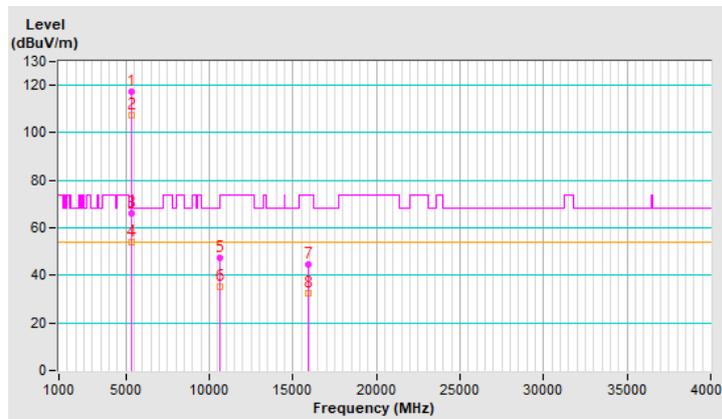


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 64 : 5320 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	117.3 PK			3.14 V	254	116.9	0.4
2	*5320.00	107.5 AV			3.14 V	254	107.1	0.4
3	5350.00	66.3 PK	74.0	-7.7	3.14 V	254	65.7	0.6
4	5350.00	53.8 AV	54.0	-0.2	3.14 V	254	53.2	0.6
5	10640.00	47.3 PK	74.0	-26.7	2.48 V	320	37.2	10.1
6	10640.00	35.4 AV	54.0	-18.6	2.48 V	320	25.3	10.1
7	15960.00	44.5 PK	74.0	-29.5	2.19 V	157	32.7	11.8
8	15960.00	32.7 AV	54.0	-21.3	2.19 V	157	20.9	11.8

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.



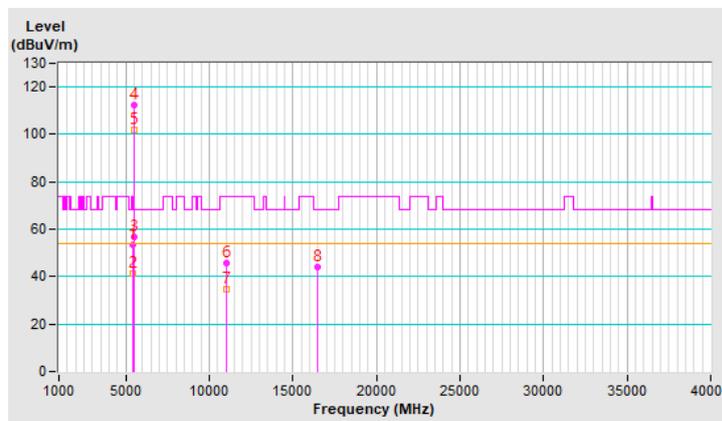
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 100 : 5500 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	53.5 PK	74.0	-20.5	1.31 H	294	52.7	0.8
2	5460.00	41.3 AV	54.0	-12.7	1.31 H	294	40.5	0.8
3	#5470.00	56.8 PK	68.2	-11.4	1.31 H	294	56.0	0.8
4	*5500.00	112.1 PK			1.31 H	294	111.3	0.8
5	*5500.00	101.7 AV			1.31 H	294	100.9	0.8
6	11000.00	45.8 PK	74.0	-28.2	1.82 H	252	34.7	11.1
7	11000.00	34.6 AV	54.0	-19.4	1.82 H	252	23.5	11.1
8	#16500.00	44.2 PK	68.2	-24.0	1.86 H	306	30.4	13.8

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



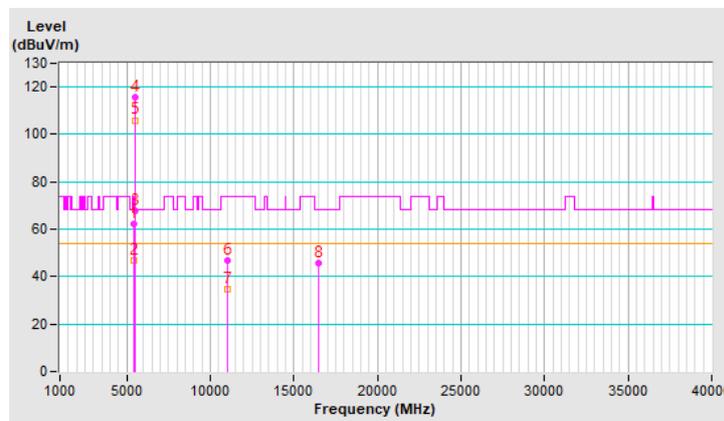
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 100 : 5500 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.0 PK	74.0	-12.0	2.37 V	81	61.2	0.8
2	5460.00	46.7 AV	54.0	-7.3	2.37 V	81	45.9	0.8
3	#5470.00	67.9 PK	68.2	-0.3	2.37 V	81	67.1	0.8
4	*5500.00	115.8 PK			2.37 V	81	115.0	0.8
5	*5500.00	106.0 AV			2.37 V	81	105.2	0.8
6	11000.00	46.6 PK	74.0	-27.4	2.41 V	325	35.5	11.1
7	11000.00	34.6 AV	54.0	-19.4	2.41 V	325	23.5	11.1
8	#16500.00	45.7 PK	68.2	-22.5	2.20 V	169	31.9	13.8

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



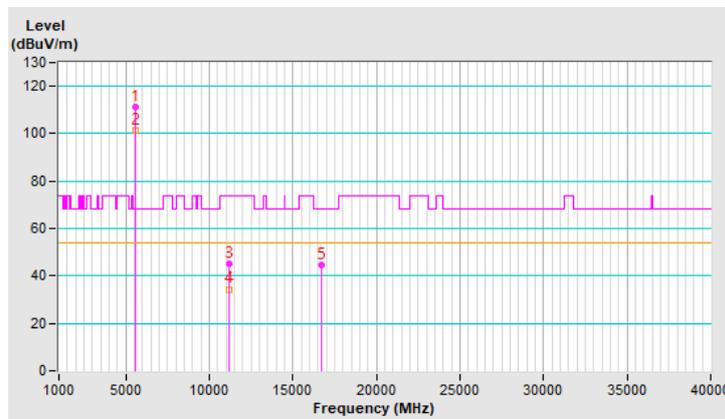
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 116 : 5580 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	111.0 PK			1.45 H	354	110.2	0.8
2	*5580.00	101.2 AV			1.45 H	354	100.4	0.8
3	11160.00	45.1 PK	74.0	-28.9	1.83 H	240	34.2	10.9
4	11160.00	34.4 AV	54.0	-19.6	1.83 H	240	23.5	10.9
5	#16740.00	44.5 PK	68.2	-23.7	1.89 H	304	29.4	15.1

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

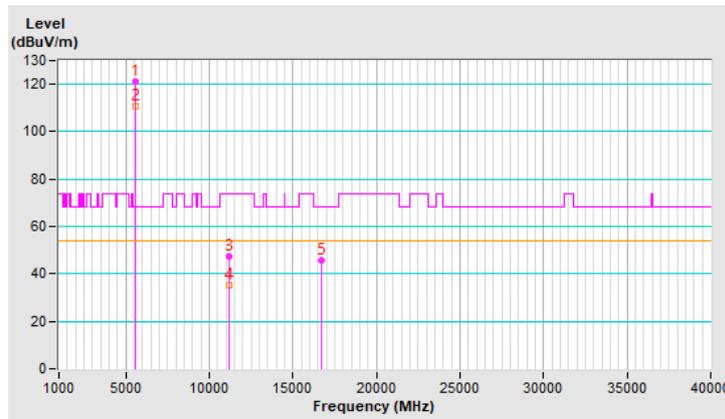


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 116 : 5580 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	121.3 PK			2.50 V	226	120.5	0.8
2	*5580.00	110.9 AV			2.50 V	226	110.1	0.8
3	11160.00	47.2 PK	74.0	-26.8	2.47 V	312	36.3	10.9
4	11160.00	35.3 AV	54.0	-18.7	2.47 V	312	24.4	10.9
5	#16740.00	45.5 PK	68.2	-22.7	2.18 V	167	30.4	15.1

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



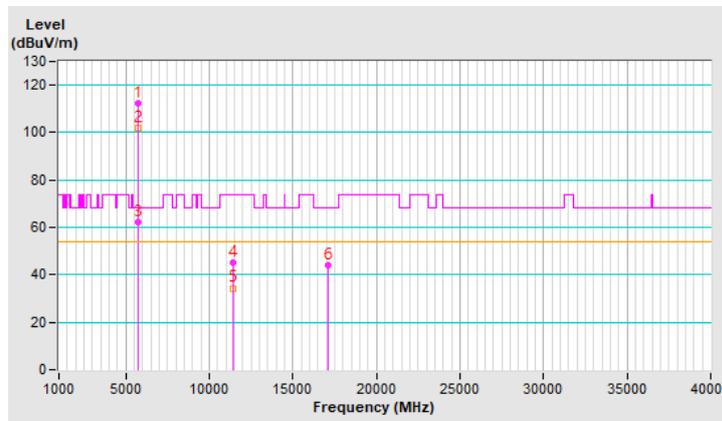
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 140 : 5700 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	112.5 PK			1.50 H	339	111.3	1.2
2	*5700.00	102.1 AV			1.50 H	339	100.9	1.2
3	#5725.00	62.0 PK	68.2	-6.2	1.50 H	339	60.7	1.3
4	11400.00	45.2 PK	74.0	-28.8	1.77 H	254	33.5	11.7
5	11400.00	34.4 AV	54.0	-19.6	1.77 H	254	22.7	11.7
6	#17100.00	44.0 PK	68.2	-24.2	1.90 H	306	27.7	16.3

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



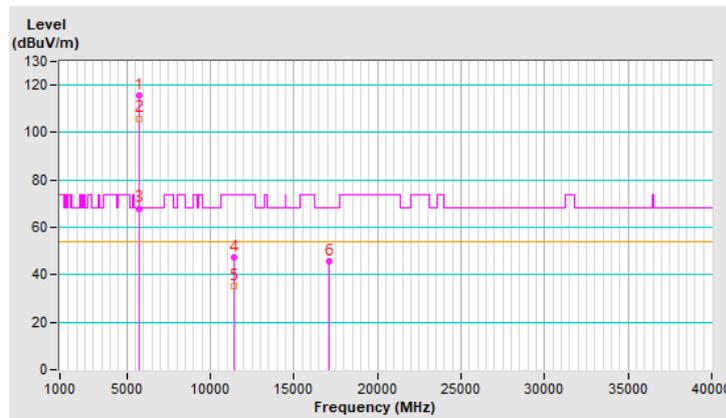
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 140 : 5700 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	115.8 PK			2.40 V	217	114.6	1.2
2	*5700.00	106.0 AV			2.40 V	217	104.8	1.2
3	#5725.00	68.0 PK	68.2	-0.2	2.40 V	217	66.7	1.3
4	11400.00	47.5 PK	74.0	-26.5	2.50 V	306	35.8	11.7
5	11400.00	35.1 AV	54.0	-18.9	2.50 V	306	23.4	11.7
6	#17100.00	45.7 PK	68.2	-22.5	2.20 V	156	29.4	16.3

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



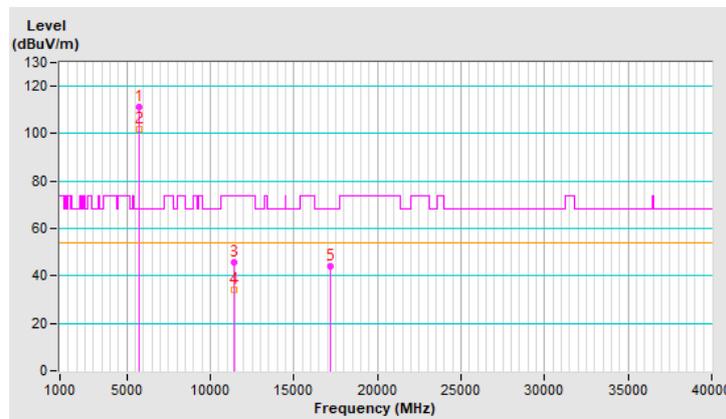
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 144 : 5720 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	111.1 PK			1.46 H	360	109.8	1.3
2	*5720.00	101.7 AV			1.46 H	360	100.4	1.3
3	11440.00	45.5 PK	74.0	-28.5	1.75 H	245	33.8	11.7
4	11440.00	34.3 AV	54.0	-19.7	1.75 H	245	22.6	11.7
5	#17160.00	44.3 PK	68.2	-23.9	1.88 H	295	28.2	16.1

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

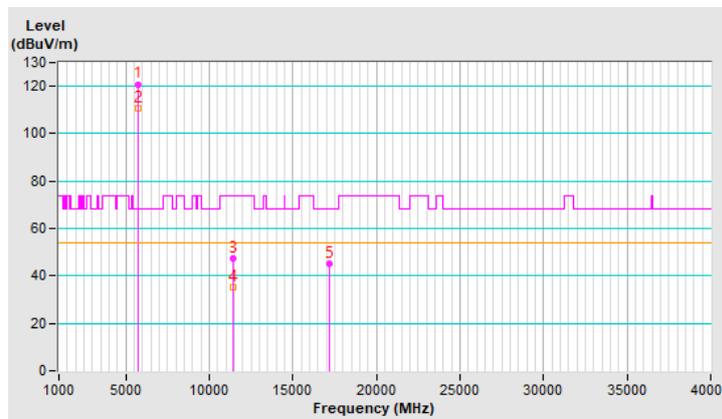


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 144 : 5720 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	120.9 PK			2.46 V	218	119.6	1.3
2	*5720.00	110.5 AV			2.46 V	218	109.2	1.3
3	11440.00	47.6 PK	74.0	-26.4	2.43 V	309	35.9	11.7
4	11440.00	35.3 AV	54.0	-18.7	2.43 V	309	23.6	11.7
5	#17160.00	45.1 PK	68.2	-23.1	2.24 V	155	29.0	16.1

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

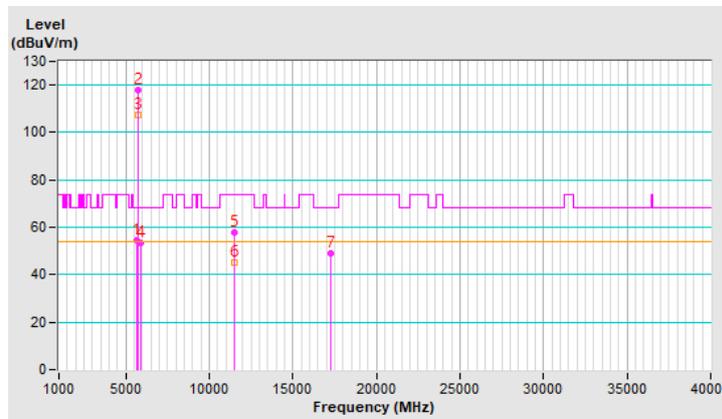


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 149 : 5745 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.30	54.3 PK	68.2	-13.9	1.38 H	316	53.3	1.0
2	*5745.00	117.9 PK			1.38 H	316	116.5	1.4
3	*5745.00	107.4 AV			1.38 H	316	106.0	1.4
4	#5928.12	53.6 PK	68.2	-14.6	1.38 H	316	52.1	1.5
5	11490.00	57.6 PK	74.0	-16.4	1.04 H	330	45.9	11.7
6	11490.00	44.9 AV	54.0	-9.1	1.04 H	330	33.2	11.7
7	#17235.00	49.1 PK	68.2	-19.1	1.96 H	43	33.2	15.9

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



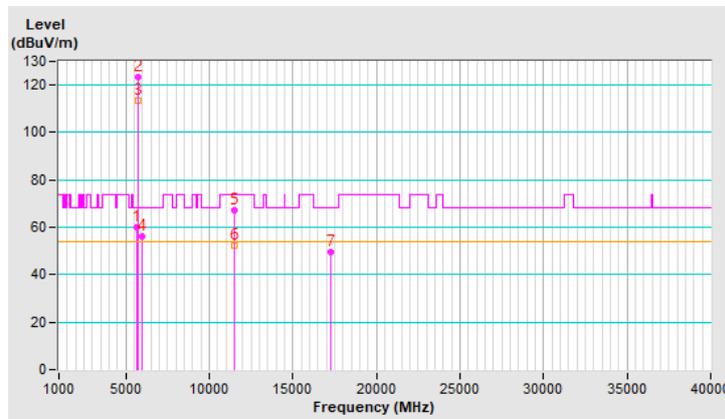
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 149 : 5745 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5641.44	60.1 PK	68.2	-8.1	1.82 V	311	59.1	1.0
2	*5745.00	123.4 PK			1.82 V	311	122.0	1.4
3	*5745.00	113.4 AV			1.82 V	311	112.0	1.4
4	#5940.44	56.3 PK	68.2	-11.9	1.82 V	311	54.6	1.7
5	11490.00	67.3 PK	74.0	-6.7	2.40 V	14	55.6	11.7
6	11490.00	52.3 AV	54.0	-1.7	2.40 V	14	40.6	11.7
7	#17235.00	49.6 PK	68.2	-18.6	1.62 V	196	33.7	15.9

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

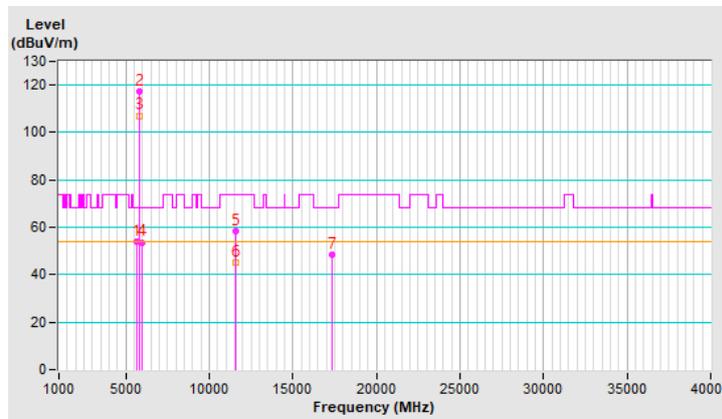


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 157 : 5785 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.54	53.8 PK	68.2	-14.4	1.40 H	316	52.8	1.0
2	*5785.00	117.5 PK			1.40 H	316	116.1	1.4
3	*5785.00	107.1 AV			1.40 H	316	105.7	1.4
4	#5940.66	53.7 PK	68.2	-14.5	1.40 H	316	52.0	1.7
5	11570.00	58.2 PK	74.0	-15.8	1.05 H	323	46.8	11.4
6	11570.00	45.3 AV	54.0	-8.7	1.05 H	323	33.9	11.4
7	#17355.00	48.6 PK	68.2	-19.6	1.99 H	44	32.1	16.5

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



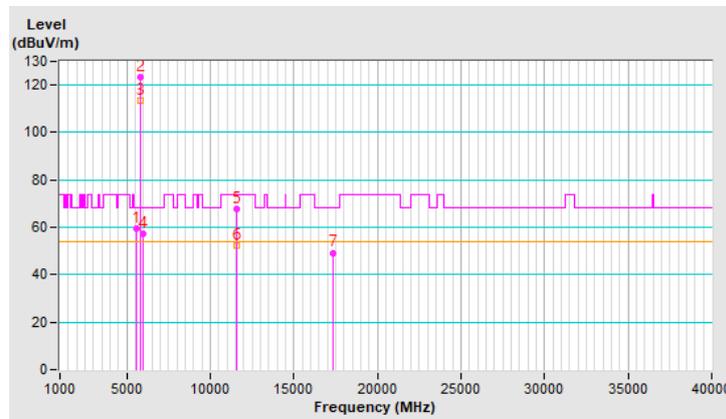
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 157 : 5785 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5601.69	59.5 PK	68.2	-8.7	1.84 V	308	58.5	1.0
2	*5785.00	123.2 PK			1.84 V	308	121.8	1.4
3	*5785.00	113.7 AV			1.84 V	308	112.3	1.4
4	#5940.50	57.1 PK	68.2	-11.1	1.84 V	308	55.4	1.7
5	11570.00	67.6 PK	74.0	-6.4	2.36 V	29	56.2	11.4
6	11570.00	52.5 AV	54.0	-1.5	2.36 V	29	41.1	11.4
7	#17355.00	49.3 PK	68.2	-18.9	1.56 V	189	32.8	16.5

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



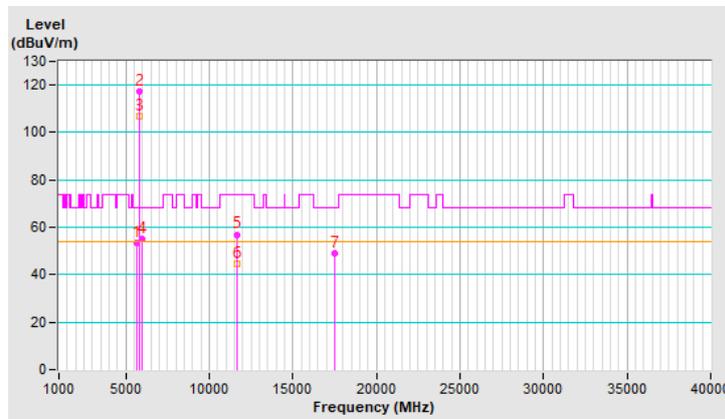
<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 165 : 5825 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5622.43	53.5 PK	68.2	-14.7	1.41 H	316	52.4	1.1
2	*5825.00	117.3 PK			1.41 H	316	115.9	1.4
3	*5825.00	106.9 AV			1.41 H	316	105.5	1.4
4	#5953.85	54.9 PK	68.2	-13.3	1.41 H	316	53.2	1.7
5	11650.00	57.0 PK	74.0	-17.0	1.05 H	332	45.7	11.3
6	11650.00	44.5 AV	54.0	-9.5	1.05 H	332	33.2	11.3
7	#17475.00	49.1 PK	68.2	-19.1	1.96 H	43	31.5	17.6

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

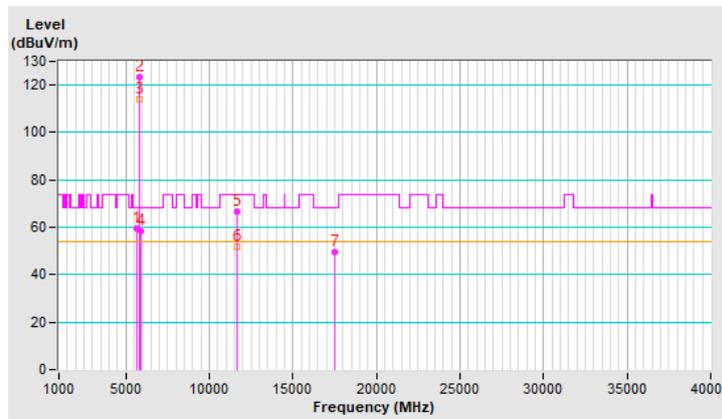


<b>RF Mode</b>	TX 802.11a	<b>Channel</b>	CH 165 : 5825 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.97	59.3 PK	68.2	-8.9	1.82 V	337	58.3	1.0
2	*5825.00	123.6 PK			1.82 V	337	122.2	1.4
3	*5825.00	113.8 AV			1.82 V	337	112.4	1.4
4	#5931.64	58.3 PK	68.2	-9.9	1.82 V	337	56.8	1.5
5	11650.00	66.8 PK	74.0	-7.2	2.37 V	27	55.5	11.3
6	11650.00	52.0 AV	54.0	-2.0	2.37 V	27	40.7	11.3
7	#17475.00	49.8 PK	68.2	-18.4	1.65 V	204	32.2	17.6

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



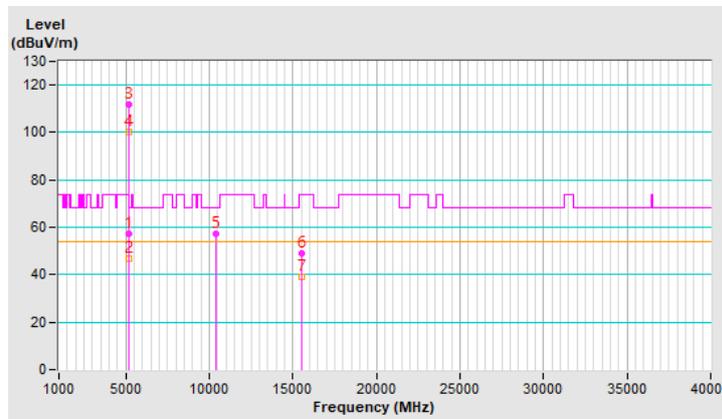
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 36 : 5180 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.3 PK	74.0	-16.7	1.13 H	355	56.3	1.0
2	5150.00	46.7 AV	54.0	-7.3	1.13 H	355	45.7	1.0
3	*5180.00	111.7 PK			1.13 H	355	111.0	0.7
4	*5180.00	100.3 AV			1.13 H	355	99.6	0.7
5	#10360.00	57.5 PK	68.2	-10.7	1.04 H	337	47.0	10.5
6	15540.00	49.2 PK	74.0	-24.8	1.96 H	57	37.7	11.5
7	15540.00	38.9 AV	54.0	-15.1	1.96 H	57	27.4	11.5

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



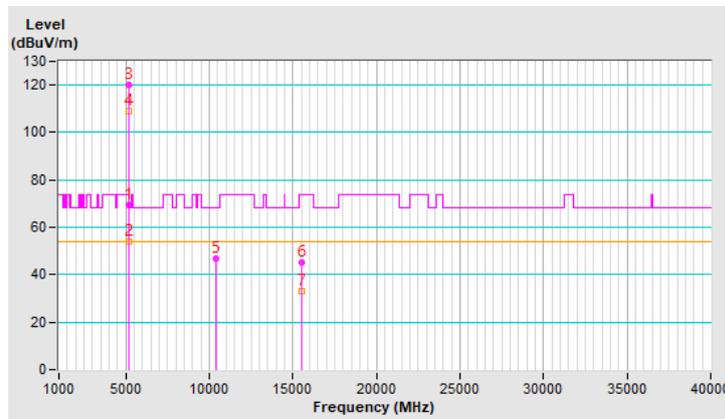
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 36 : 5180 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5147.00	69.5 PK	74.0	-4.5	2.69 V	184	68.5	1.0
2	5147.00	53.8 AV	54.0	-0.2	2.69 V	184	52.8	1.0
3	*5180.00	120.2 PK			2.69 V	184	119.5	0.7
4	*5180.00	108.9 AV			2.69 V	184	108.2	0.7
5	#10360.00	46.8 PK	68.2	-21.4	2.51 V	334	36.3	10.5
6	15540.00	45.3 PK	74.0	-28.7	2.29 V	173	33.8	11.5
7	15540.00	33.2 AV	54.0	-20.8	2.29 V	173	21.7	11.5

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



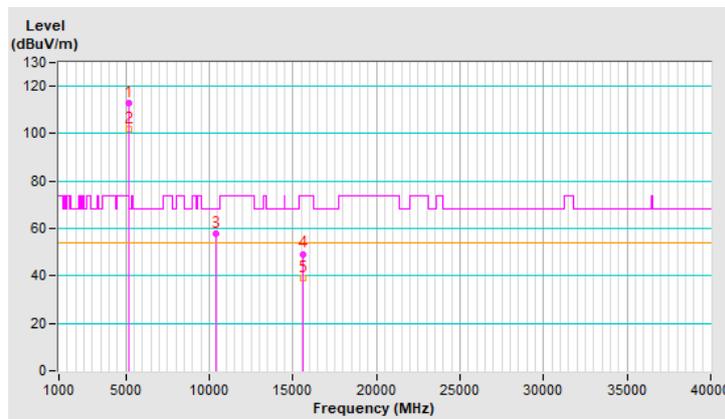
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	113.1 PK			1.10 H	347	112.5	0.6
2	*5200.00	101.7 AV			1.10 H	347	101.1	0.6
3	#10400.00	57.8 PK	68.2	-10.4	1.06 H	341	47.1	10.7
4	15600.00	49.3 PK	74.0	-24.7	1.98 H	67	37.6	11.7
5	15600.00	39.2 AV	54.0	-14.8	1.98 H	67	27.5	11.7

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

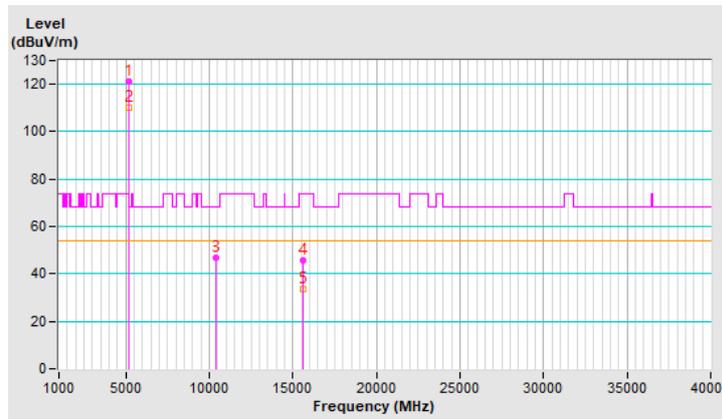


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	121.4 PK			2.70 V	190	120.8	0.6
2	*5200.00	109.9 AV			2.70 V	190	109.3	0.6
3	#10400.00	47.0 PK	68.2	-21.2	2.56 V	327	36.3	10.7
4	15600.00	45.7 PK	74.0	-28.3	2.34 V	174	34.0	11.7
5	15600.00	33.7 AV	54.0	-20.3	2.34 V	174	22.0	11.7

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



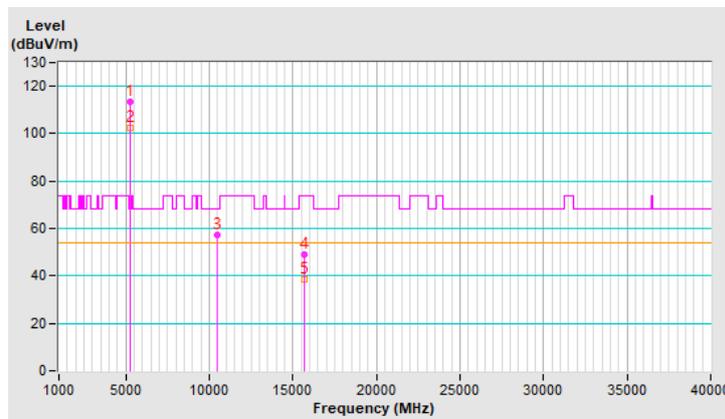
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 48 : 5240 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	113.4 PK			1.16 H	334	113.0	0.4
2	*5240.00	102.2 AV			1.16 H	334	101.8	0.4
3	#10480.00	57.4 PK	68.2	-10.8	1.00 H	335	46.9	10.5
4	15720.00	49.2 PK	74.0	-24.8	1.92 H	50	37.7	11.5
5	15720.00	38.7 AV	54.0	-15.3	1.92 H	50	27.2	11.5

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



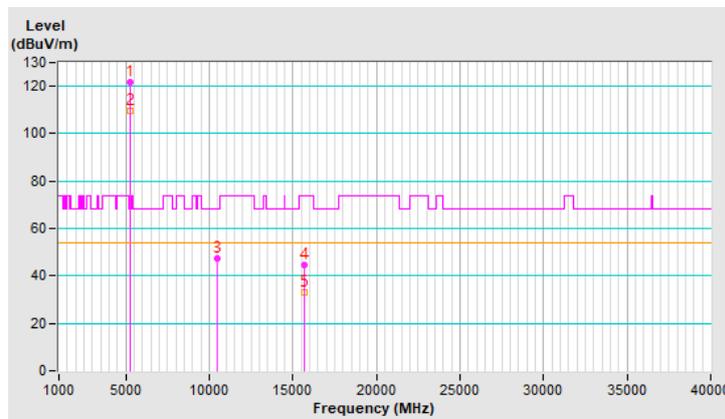
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 48 : 5240 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	121.5 PK			2.68 V	200	121.1	0.4
2	*5240.00	109.7 AV			2.68 V	200	109.3	0.4
3	#10480.00	47.2 PK	68.2	-21.0	2.54 V	341	36.7	10.5
4	15720.00	44.7 PK	74.0	-29.3	2.24 V	167	33.2	11.5
5	15720.00	32.9 AV	54.0	-21.1	2.24 V	167	21.4	11.5

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



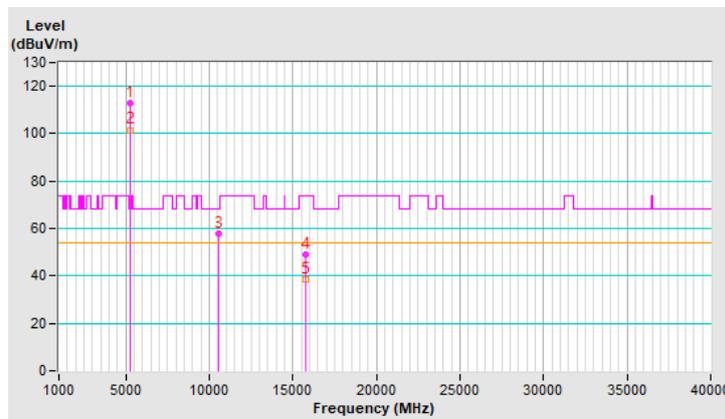
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 52 : 5260 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5260.00	113.1 PK			1.12 H	351	112.8	0.3
2	*5260.00	101.6 AV			1.12 H	351	101.3	0.3
3	#10520.00	57.8 PK	68.2	-10.4	1.08 H	336	47.4	10.4
4	15780.00	49.1 PK	74.0	-24.9	1.93 H	68	37.7	11.4
5	15780.00	38.7 AV	54.0	-15.3	1.93 H	68	27.3	11.4

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

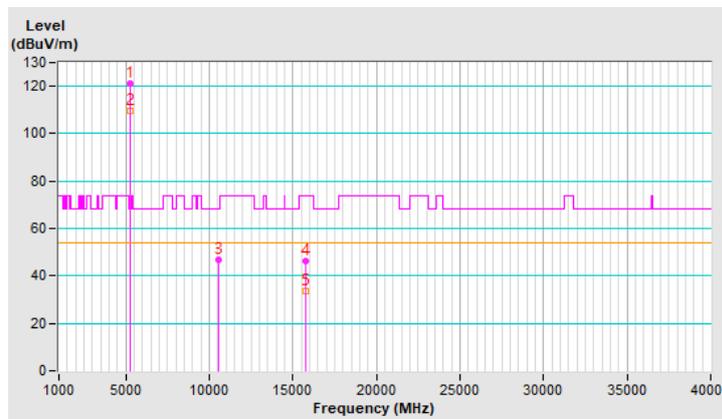


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 52 : 5260 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5260.00	121.1 PK			2.66 V	175	120.8	0.3
2	*5260.00	109.7 AV			2.66 V	175	109.4	0.3
3	#10520.00	46.6 PK	68.2	-21.6	2.53 V	327	36.2	10.4
4	15780.00	46.0 PK	74.0	-28.0	2.28 V	169	34.6	11.4
5	15780.00	33.7 AV	54.0	-20.3	2.28 V	169	22.3	11.4

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



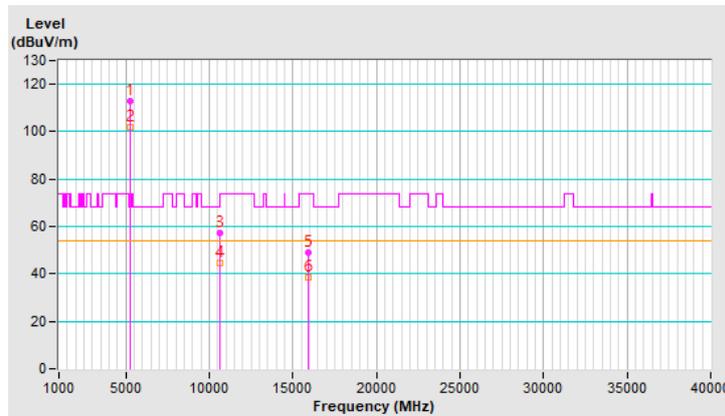
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 60 : 5300 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	113.1 PK			1.10 H	338	112.8	0.3
2	*5300.00	101.8 AV			1.10 H	338	101.5	0.3
3	10600.00	57.3 PK	74.0	-16.7	1.02 H	350	47.4	9.9
4	10600.00	44.8 AV	54.0	-9.2	1.02 H	350	34.9	9.9
5	15900.00	48.8 PK	74.0	-25.2	1.96 H	53	37.2	11.6
6	15900.00	38.7 AV	54.0	-15.3	1.96 H	53	27.1	11.6

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.



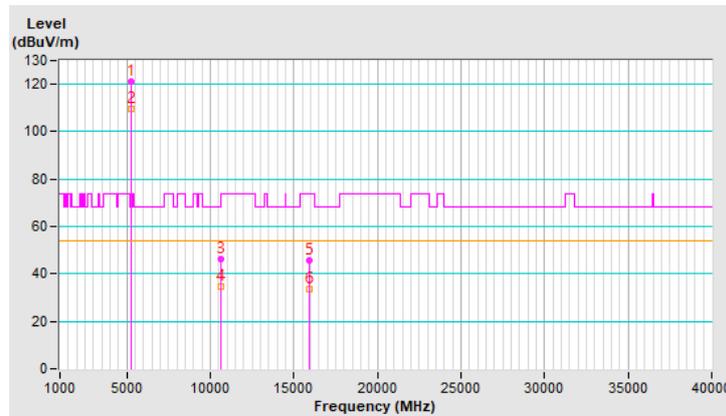
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 60 : 5300 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	121.2 PK			2.67 V	179	120.9	0.3
2	*5300.00	109.7 AV			2.67 V	179	109.4	0.3
3	10600.00	46.5 PK	74.0	-27.5	2.47 V	330	36.6	9.9
4	10600.00	34.5 AV	54.0	-19.5	2.47 V	330	24.6	9.9
5	15900.00	45.6 PK	74.0	-28.4	2.26 V	180	34.0	11.6
6	15900.00	33.4 AV	54.0	-20.6	2.26 V	180	21.8	11.6

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.

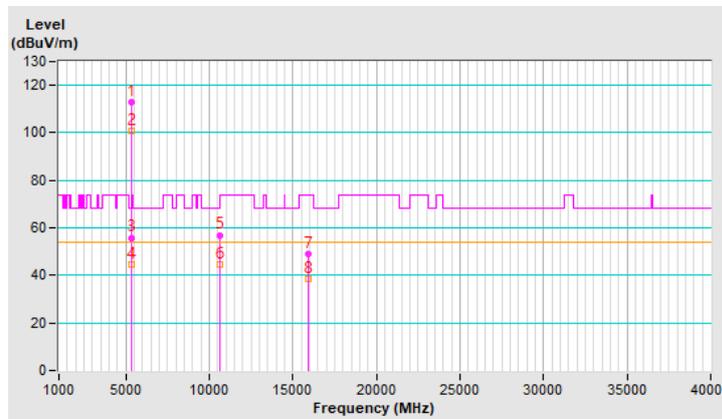


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 64 : 5320 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	112.9 PK			1.36 H	292	112.5	0.4
2	*5320.00	100.6 AV			1.36 H	292	100.2	0.4
3	5351.86	55.9 PK	74.0	-18.1	1.36 H	292	55.3	0.6
4	5351.86	44.5 AV	54.0	-9.5	1.36 H	292	43.9	0.6
5	10640.00	57.0 PK	74.0	-17.0	1.07 H	325	46.9	10.1
6	10640.00	44.4 AV	54.0	-9.6	1.07 H	325	34.3	10.1
7	15960.00	49.1 PK	74.0	-24.9	2.02 H	60	37.3	11.8
8	15960.00	38.6 AV	54.0	-15.4	2.02 H	60	26.8	11.8

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.

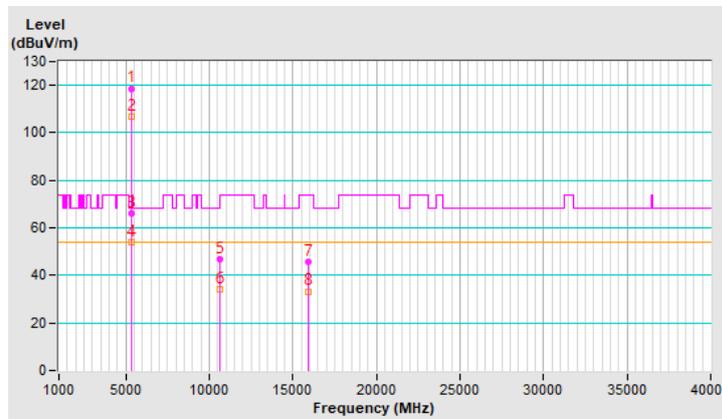


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 64 : 5320 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	118.7 PK			1.90 V	335	118.3	0.4
2	*5320.00	106.7 AV			1.90 V	335	106.3	0.4
3	5351.86	66.1 PK	74.0	-7.9	1.90 V	335	65.5	0.6
4	5351.86	53.8 AV	54.0	-0.2	1.90 V	335	53.2	0.6
5	10640.00	46.8 PK	74.0	-27.2	2.53 V	323	36.7	10.1
6	10640.00	34.3 AV	54.0	-19.7	2.53 V	323	24.2	10.1
7	15960.00	45.5 PK	74.0	-28.5	2.28 V	177	33.7	11.8
8	15960.00	33.3 AV	54.0	-20.7	2.28 V	177	21.5	11.8

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.



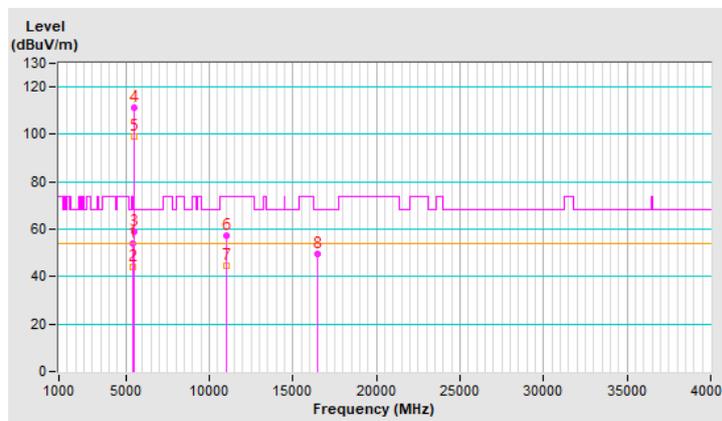
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 100 : 5500 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	53.8 PK	74.0	-20.2	1.22 H	298	53.0	0.8
2	5460.00	44.1 AV	54.0	-9.9	1.22 H	298	43.3	0.8
3	#5470.00	59.0 PK	68.2	-9.2	1.22 H	298	58.2	0.8
4	*5500.00	111.2 PK			1.22 H	298	110.4	0.8
5	*5500.00	99.1 AV			1.22 H	298	98.3	0.8
6	11000.00	57.5 PK	74.0	-16.5	1.00 H	325	46.4	11.1
7	11000.00	44.7 AV	54.0	-9.3	1.00 H	325	33.6	11.1
8	#16500.00	49.5 PK	68.2	-18.7	1.99 H	50	35.7	13.8

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

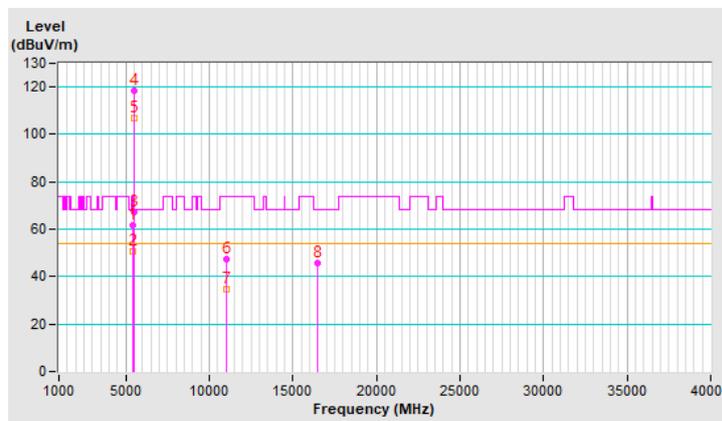


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 100 : 5500 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.9 PK	74.0	-12.1	3.18 V	346	61.1	0.8
2	5460.00	50.9 AV	54.0	-3.1	3.18 V	346	50.1	0.8
3	#5470.00	67.4 PK	68.2	-0.8	3.18 V	346	66.6	0.8
4	*5500.00	118.6 PK			3.18 V	346	117.8	0.8
5	*5500.00	106.7 AV			3.18 V	346	105.9	0.8
6	11000.00	47.1 PK	74.0	-26.9	2.56 V	341	36.0	11.1
7	11000.00	34.6 AV	54.0	-19.4	2.56 V	341	23.5	11.1
8	#16500.00	45.7 PK	68.2	-22.5	2.34 V	171	31.9	13.8

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



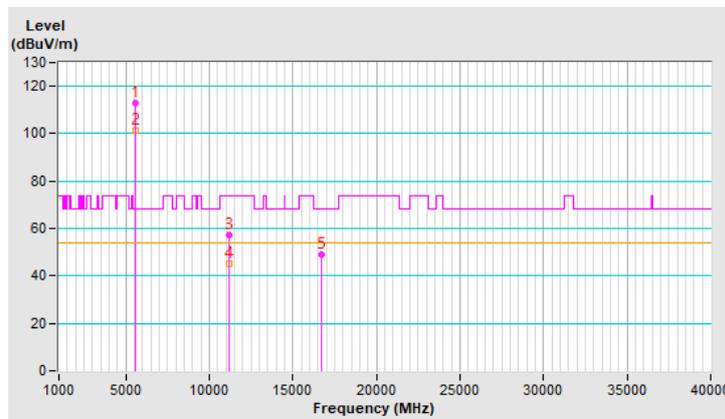
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 116 : 5580 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	112.8 PK			1.13 H	337	112.0	0.8
2	*5580.00	101.2 AV			1.13 H	337	100.4	0.8
3	11160.00	57.3 PK	74.0	-16.7	1.10 H	337	46.4	10.9
4	11160.00	44.9 AV	54.0	-9.1	1.10 H	337	34.0	10.9
5	#16740.00	49.1 PK	68.2	-19.1	1.97 H	64	34.0	15.1

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

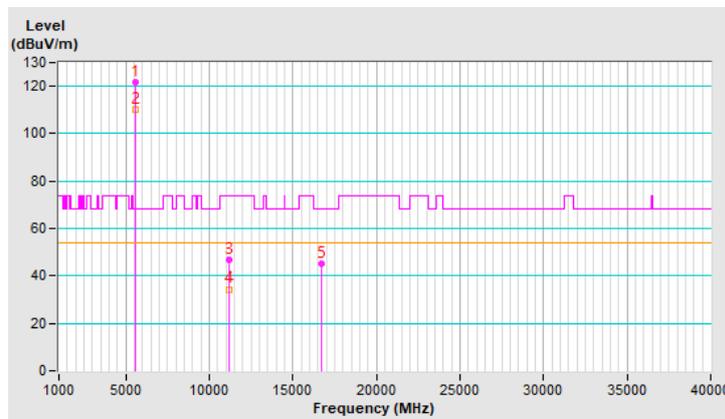


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 116 : 5580 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	121.6 PK			2.67 V	206	120.8	0.8
2	*5580.00	109.9 AV			2.67 V	206	109.1	0.8
3	11160.00	46.9 PK	74.0	-27.1	2.45 V	329	36.0	10.9
4	11160.00	34.4 AV	54.0	-19.6	2.45 V	329	23.5	10.9
5	#16740.00	45.2 PK	68.2	-23.0	2.25 V	160	30.1	15.1

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



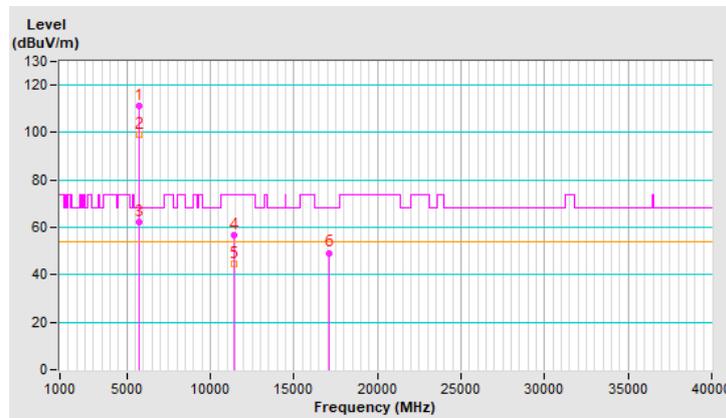
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 140 : 5700 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	111.1 PK			1.21 H	313	109.9	1.2
2	*5700.00	99.3 AV			1.21 H	313	98.1	1.2
3	#5725.00	62.1 PK	68.2	-6.1	1.38 H	307	60.8	1.3
4	11400.00	56.9 PK	74.0	-17.1	1.08 H	337	45.2	11.7
5	11400.00	44.5 AV	54.0	-9.5	1.08 H	337	32.8	11.7
6	#17100.00	49.3 PK	68.2	-18.9	1.91 H	67	33.0	16.3

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

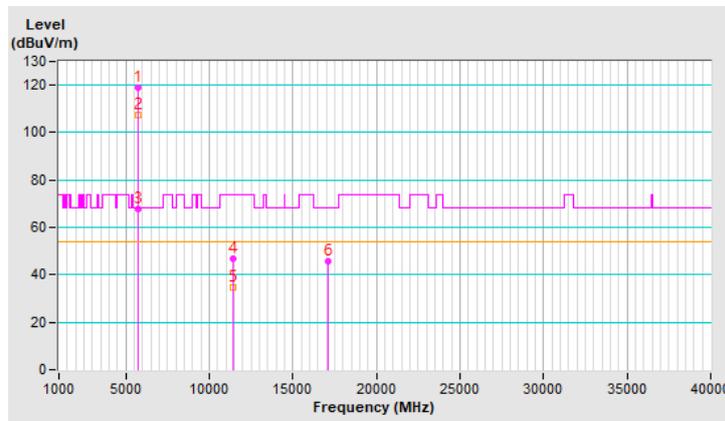


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 140 : 5700 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	119.1 PK			3.21 V	331	117.9	1.2
2	*5700.00	107.2 AV			3.21 V	331	106.0	1.2
3	#5725.00	67.8 PK	68.2	-0.4	1.86 V	344	66.5	1.3
4	11400.00	46.9 PK	74.0	-27.1	2.51 V	332	35.2	11.7
5	11400.00	34.8 AV	54.0	-19.2	2.51 V	332	23.1	11.7
6	#17100.00	45.8 PK	68.2	-22.4	2.28 V	182	29.5	16.3

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



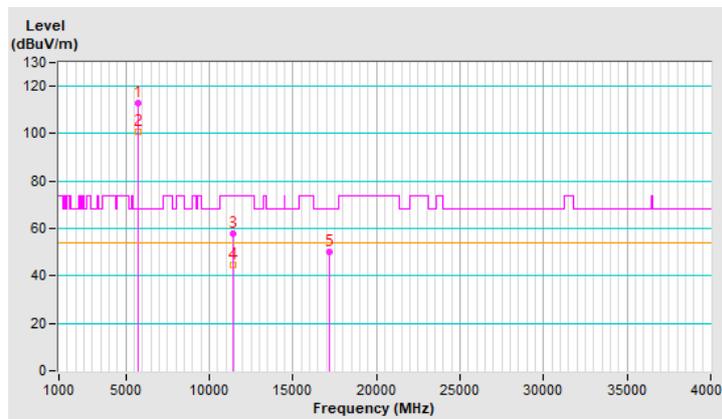
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 144 : 5720 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	112.7 PK			1.16 H	329	111.4	1.3
2	*5720.00	100.9 AV			1.16 H	329	99.6	1.3
3	11440.00	57.6 PK	74.0	-16.4	1.09 H	324	45.9	11.7
4	11440.00	44.8 AV	54.0	-9.2	1.09 H	324	33.1	11.7
5	#17160.00	50.0 PK	68.2	-18.2	1.97 H	44	33.9	16.1

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

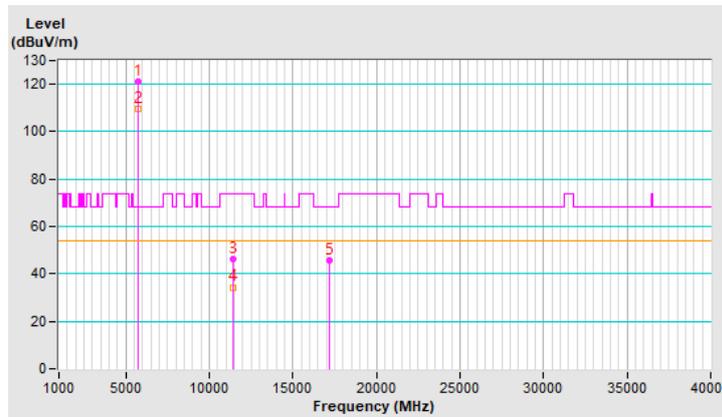


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 144 : 5720 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	121.0 PK			2.70 V	183	119.7	1.3
2	*5720.00	109.7 AV			2.70 V	183	108.4	1.3
3	11440.00	46.4 PK	74.0	-27.6	2.53 V	347	34.7	11.7
4	11440.00	34.4 AV	54.0	-19.6	2.53 V	347	22.7	11.7
5	#17160.00	45.6 PK	68.2	-22.6	2.32 V	178	29.5	16.1

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

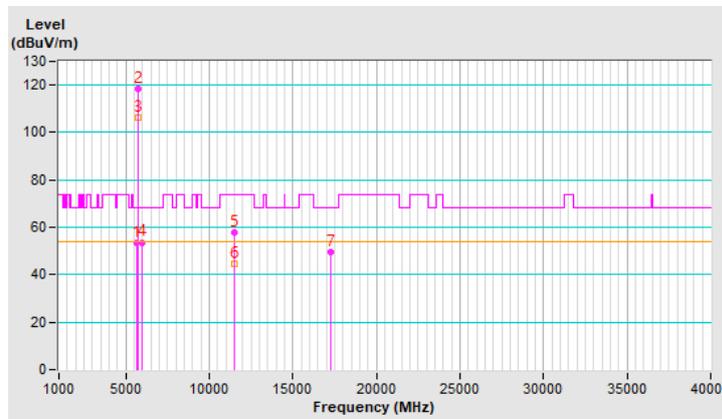


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 149 : 5745 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5640.55	53.5 PK	68.2	-14.7	1.21 H	314	52.5	1.0
2	*5745.00	118.6 PK			1.21 H	314	117.2	1.4
3	*5745.00	106.2 AV			1.21 H	314	104.8	1.4
4	#5945.25	53.7 PK	68.2	-14.5	1.21 H	314	52.0	1.7
5	11490.00	57.7 PK	74.0	-16.3	1.07 H	328	46.0	11.7
6	11490.00	44.7 AV	54.0	-9.3	1.07 H	328	33.0	11.7
7	#17235.00	49.4 PK	68.2	-18.8	1.92 H	54	33.5	15.9

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

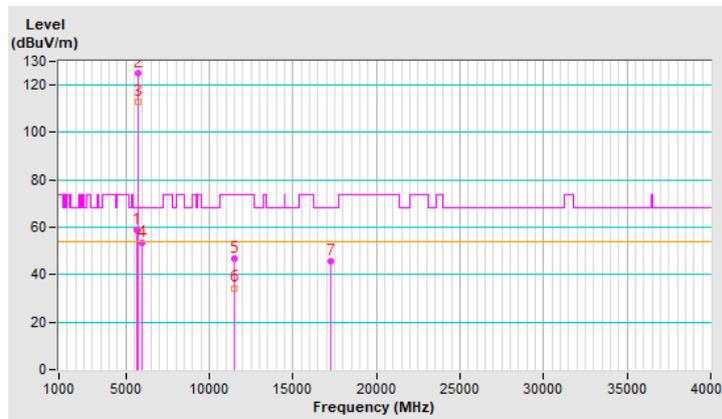


<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 149 : 5745 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5636.86	58.8 PK	68.2	-9.4	1.67 V	34	57.8	1.0
2	*5745.00	124.8 PK			1.67 V	34	123.4	1.4
3	*5745.00	112.7 AV			1.67 V	34	111.3	1.4
4	#5938.71	53.6 PK	68.2	-14.6	1.67 V	34	52.0	1.6
5	11490.00	46.7 PK	74.0	-27.3	2.55 V	333	35.0	11.7
6	11490.00	34.4 AV	54.0	-19.6	2.55 V	333	22.7	11.7
7	#17235.00	45.8 PK	68.2	-22.4	2.31 V	159	29.9	15.9

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



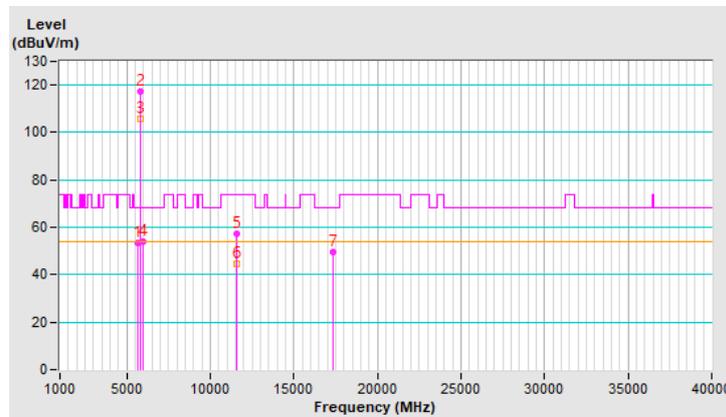
<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 157 : 5785 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5649.67	53.4 PK	68.2	-14.8	1.19 H	314	52.4	1.0
2	*5785.00	117.5 PK			1.19 H	314	116.1	1.4
3	*5785.00	105.9 AV			1.19 H	314	104.5	1.4
4	#5939.95	54.0 PK	68.2	-14.2	1.19 H	314	52.3	1.7
5	11570.00	57.2 PK	74.0	-16.8	1.01 H	325	45.8	11.4
6	11570.00	44.4 AV	54.0	-9.6	1.01 H	325	33.0	11.4
7	#17355.00	49.7 PK	68.2	-18.5	1.99 H	57	33.2	16.5

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



<b>RF Mode</b>	TX 802.11ax (HE20)	<b>Channel</b>	CH 157 : 5785 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	20 °C, 70 % RH
<b>Tested By</b>	Vic Huang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5633.20	58.5 PK	68.2	-9.7	1.72 V	34	57.5	1.0
2	*5785.00	122.3 PK			1.72 V	34	120.9	1.4
3	*5785.00	112.2 AV			1.72 V	34	110.8	1.4
4	#5942.40	55.5 PK	68.2	-12.7	1.72 V	34	53.8	1.7
5	11570.00	47.5 PK	74.0	-26.5	2.55 V	342	36.1	11.4
6	11570.00	34.9 AV	54.0	-19.1	2.55 V	342	23.5	11.4
7	#17355.00	45.8 PK	68.2	-22.4	2.24 V	183	29.3	16.5

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

