

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBCMA-WTW-P22070299A-1

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Model No.: CE1000A

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FCC Registration / 723255 / TW2022

Designation Number:

Approved by: _____, **Date:** 2022/11/29
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Release Control Record

Issue No.	Description	Date Issued
RFBCMA-WTW-P22070299A-1	Original release.	2022/11/29

1 Certificate

Product: Verizon Wi-Fi Extender

Brand: Verizon

Test Model: CE1000A

Sample Status: Engineering sample

Applicant: Arcadyan Technology Corporation

Test Date: 2022/4/27 ~ 2022/7/30

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

Measurement ANSI C63.10-2013

procedure: 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)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1/2)	Power Spectral Density	Pass	Meet the requirement of limit.
---	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 -9.24 dB at 0.55234 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -4.1 dB at 85.41 MHz
15.407(b) (1/2/3/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -1.0 dB at 5460.00, 5725.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) 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:

Parameter	Specification	Uncertainty
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	5.1 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	Verizon Wi-Fi Extender
Brand	Verizon
Test Model	CE1000A
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 mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54Mbps 802.11n: up to 600Mbps 802.11ac: up to 3466.7 Mbps 802.11ax: up to 4803.9 Mbps
Operating Frequency	5260 ~ 5320 MHz 5500 ~ 5720 MHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 16 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 8 802.11ac (VHT80), 802.11ax (HE80): 4 802.11ac (VHT160), 802.11ax (HE160): 1
Output Power	CDD Mode: 5260 ~ 5320 MHz : 248.709 mW (23.96 dBm) 5500 ~ 5720 MHz : 243.022 mW (23.86 dBm) Beamforming Mode: 5260 ~ 5320 MHz : 175.797 mW (22.45 dBm) 5500 ~ 5720 MHz : 167.057 mW (22.23 dBm)

Note:

- This is a supplementary report of Report No.: RFBCMA-WTW-P22070299-1. design changed is as the following:
 - ◆ Add DFS band <5250~5350 MHz & 5470~5725 MHz> by software.
- According to above conditions, for DFS band all of test items need to be performed and all data was verified to meet the requirements.
- The EUT uses following accessories.

Adapter 1		
Brand	Model	Specification
DELTA	ADH-60BW B	AC Input : 120V ,1.2A, 60Hz DC Output : 12V ,5A ,60W DC Output Cable : 1.8 M , non-shielded cable Plug : US
Adapter 2		
Brand	Model	Specification
Lucent Trans	1A98-1250-02	AC Input : 100~120V ,1.2A, 50/60Hz DC Output : 12V ,5A ,60W DC Output Cable : 1.8 M , non-shielded cable Plug : US
RJ45 Cable		
Specification		
Signal Line : 3 M , non-shielded cable		

- The EUT has below radios as following table:

Radio 1	Radio 2	Radio 3	Radio 4
WLAN(2.4GHz)	WLAN 5GHz (low band) + 5GHz (full band)	WLAN 5GHz (high band)+ WLAN 6GHz	WLAN 5GHz Sensor (RX Only)

5. Simultaneously transmission condition.

Condition	Technology
1	WLAN (2.4 GHz) + WLAN (5 GHz)_Full Band + WLAN (6 GHz)
2	WLAN (2.4 GHz) + WLAN (5 GHz) _Low Band + WLAN (5 GHz)_High Band

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

6. 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 antenna information is listed as below.

Antenna NO.	RF Chain No.	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type	Cable Loss (dB)
2.4G/5GL DB ANT 1	AJ7 (5G Chain2) (2.4G Chain 1)	0.9	2.4~2.4835GHz	PIFA	ipex(MHF)	0.72
		0.6	5.15~5.25GHz			1
		0.6	5.25~5.35GHz			1
		1	5.47~5.725GHz			1.0
		1	5.725~5.85GHz			1.0
2.4G/5GL DB ANT 2	AJ5 (5G Chain1) (2.4G Chain 2)	0.5	2.4~2.4835GHz	PIFA	ipex(MHF)	0.88
		0.7	5.15~5.25GHz			1.22
		0.7	5.25~5.35GHz			1.22
		2.2	5.47~5.725GHz			1.26
		2.2	5.725~5.85GHz			1.26
2.4G/5GL DB ANT 3	AJ3 (5G Chain0) (2.4G Chain 3)	1.3	2.4~2.4835GHz	PIFA	ipex(MHF)	0.71
		0	5.15~5.25GHz			0.99
		0	5.25~5.35GHz			0.99
		0.4	5.47~5.725GHz			1.02
		0.4	5.725~5.85GHz			1.02
2.4G/5GL DB ANT 4	AJ9 (5G Chain3) (2.4G Chain 0)	0.3	2.4~2.4835GHz	PIFA	ipex(MHF)	0.61
		3.1	5.15~5.25GHz			0.86
		3.1	5.25~5.35GHz			0.86
		3	5.47~5.725GHz			0.88
		3	5.725~5.85GHz			0.88
5GH/6E ANT 1	AJ4 (Chain3)	1.3	5.47~5.725GHz	PIFA	ipex(MHF)	1.26
		1.3	5.725~5.85GHz			1.26
		0.7	5.925GHz~6.425GHz			1.4
		0.7	6.425GHz~6.525GHz			1.4
		0.7	6.525GHz~6.875Hz			1.45
0.7	6.875Hz~7.125GHz	1.56				
5GH/6E ANT 2	AJ1 (Chain0)	3.2	5.47~5.725GHz	PIFA	ipex(MHF)	1.26
		3.2	5.725~5.85GHz			1.26
		1.1	5.925GHz~6.425GHz			1.4
		1.1	6.425GHz~6.525GHz			1.4
		1.1	6.525GHz~6.875Hz			1.45
1.1	6.875Hz~7.125GHz	1.56				
5GH/6E ANT 3	AJ2 (Chain1)	1.9	5.47~5.725GHz	PIFA	ipex(MHF)	0.63
		1.9	5.725~5.85GHz			0.63
		2.8	5.925GHz~6.425GHz			0.7
		2.8	6.425GHz~6.525GHz			0.7
		2.8	6.525GHz~6.875Hz			0.73
2.8	6.875Hz~7.125GHz	0.78				
5GH/6E ANT 4	AJ3 (Chain2)	0.2	5.47~5.725GHz	PIFA	ipex(MHF)	0.52
		0.2	5.725~5.85GHz			0.52
		0.6	5.925GHz~6.425GHz			0.58
		0.6	6.425GHz~6.525GHz			0.58
		0.6	6.525GHz~6.875Hz			0.6
0.6	6.875Hz~7.125GHz	0.65				
5GHz Sensor ANT	AWJ4	0.15	5.15~5.25GHz	Dipole	ipex(MHF)	1.22
		0.15	5.25~5.35GHz			1.22
		0.15	5.47~5.725GHz			1.26
		0.15	5.725~5.85GHz			1.26

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT incorporates a MIMO function:

5 GHz_High Band (Radio 3)		
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
5 GHz_Low Band & Full Band (Radio 2)		
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
802.11ax (HE20)	4TX	4RX
802.11ax (HE40)	4TX	4RX
802.11ax (HE80)	4TX	4RX

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 (40 MHz, 80 MHz, 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

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

Channel	Frequency
52	5260 MHz
56	5280 MHz
60	5300 MHz
64	5320 MHz

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

Channel	Frequency
54	5270 MHz
62	5310 MHz

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

Channel	Frequency
58	5290 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 channels are provided for 802.11ac (VHT160) and 802.11ax (HE160):

Channel	Frequency
114	5570 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	<p>1. The AC Adapter has the following models: DELTA:ADH-60BW B / Lucent Trans:1A98-1250-02. Pre-scan these models of AC Adapters and find the worst case as a representative test condition. For AC Power Conducted Emissions items: Pre-scan these modes and find the worst case as a representative test condition.</p> <p>2. The AC Adapter has the following models: DELTA:ADH-60BW B / Lucent Trans:1A98-1250-02. Pre-scan these models of AC Adapters and find the worst case as a representative test condition. For Unwanted Emissions below 1 GHz items: Pre-scan these modes and find the worst case as a representative test condition.</p>
Worst Case:	<p>1. AC Adapter For AC Power Conducted Emissions, Worst Condition: Lucent Trans:1A98-1250-02</p> <p>2. AC Adapter For Unwanted Emissions below 1 GHz, Worst Condition: DELTA:ADH-60BW B</p> <p>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).</p>

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
26 dB Bandwidth	A	802.11a	CDD	52, 60, 64	BPSK	6Mb/s
		802.11ax (HE20)	CDD	52, 60, 64	BPSK	MCS0
		802.11ax (HE40)	CDD	54, 62	BPSK	MCS0
		802.11ax (HE80)	CDD	58	BPSK	MCS0
	B	802.11a	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
		802.11ax (HE20)	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
		802.11ax (HE40)	CDD	54, 62, 102, 110, 134, 142	BPSK	MCS0
		802.11ax (HE80)	CDD	58, 106, 122, 138	BPSK	MCS0
	C	802.11a	CDD	100, 116, 140, 144	BPSK	6Mb/s
		802.11ax (HE20)	CDD	100, 116, 140, 144	BPSK	MCS0
		802.11ax (HE40)	CDD	102, 110, 134, 142	BPSK	MCS0
		802.11ax (HE80)	CDD	106, 122, 138	BPSK	MCS0
		802.11ax (HE160)	CDD	114	BPSK	MCS0

RF Output Power	A	802.11a	CDD	52, 60, 64	BPSK	6Mb/s
		802.11ac (VHT20)	CDD & Beamforming	52, 60, 64	BPSK	MCS0
		802.11ac (VHT40)	CDD & Beamforming	54, 62	BPSK	MCS0
		802.11ac (VHT80)	CDD & Beamforming	58	BPSK	MCS0
		802.11ax (HE20)	CDD & Beamforming	52, 60, 64	BPSK	MCS0
		802.11ax (HE40)	CDD & Beamforming	54, 62	BPSK	MCS0
		802.11ax (HE80)	CDD & Beamforming	58	BPSK	MCS0
	B	802.11a	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
		802.11ac (VHT20)	CDD & Beamforming	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
		802.11ac (VHT40)	CDD & Beamforming	54, 62, 102, 110, 134, 142	BPSK	MCS0
		802.11ac (VHT80)	CDD & Beamforming	58, 106, 122, 138	BPSK	MCS0
		802.11ax (HE20)	CDD & Beamforming	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
		802.11ax (HE40)	CDD & Beamforming	54, 62, 102, 110, 134, 142	BPSK	MCS0
		802.11ax (HE80)	CDD & Beamforming	58, 106, 122, 138	BPSK	MCS0
	C	802.11a	CDD	100, 116, 140, 144	BPSK	6Mb/s
		802.11ac (VHT20)	CDD & Beamforming	100, 116, 140, 144	BPSK	MCS0
		802.11ac (VHT40)	CDD & Beamforming	102, 110, 134, 142	BPSK	MCS0
		802.11ac (VHT80)	CDD & Beamforming	106, 122, 138	BPSK	MCS0
		802.11ac (VHT160)	CDD & Beamforming	114	BPSK	MCS0
		802.11ax (HE20)	CDD & Beamforming	100, 116, 140, 144	BPSK	MCS0
		802.11ax (HE40)	CDD & Beamforming	102, 110, 134, 142	BPSK	MCS0
		802.11ax (HE80)	CDD & Beamforming	106, 122, 138	BPSK	MCS0
		802.11ax (HE160)	CDD & Beamforming	114	BPSK	MCS0

6 dB Bandwidth	B	802.11a	CDD	144	BPSK	6Mb/s	
		802.11ax (HE20)	CDD	144	BPSK	MCS0	
		802.11ax (HE40)	CDD	142	BPSK	MCS0	
		802.11ax (HE80)	CDD	138	BPSK	MCS0	
	C	802.11a	CDD	144	BPSK	6Mb/s	
		802.11ax (HE20)	CDD	144	BPSK	MCS0	
		802.11ax (HE40)	CDD	142	BPSK	MCS0	
		802.11ax (HE80)	CDD	138	BPSK	MCS0	
Occupied Bandwidth / Power Spectral Density	A	802.11a	CDD	52, 60, 64	BPSK	6Mb/s	
		802.11ax (HE20)	CDD	52, 60, 64	BPSK	MCS0	
		802.11ax (HE40)	CDD	54, 62	BPSK	MCS0	
		802.11ax (HE80)	CDD	58	BPSK	MCS0	
	B	802.11a	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s	
		802.11ax (HE20)	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0	
		802.11ax (HE40)	CDD	54, 62, 102, 110, 134, 142	BPSK	MCS0	
		802.11ax (HE80)	CDD	58, 106, 122, 138	BPSK	MCS0	
	C	802.11a	CDD	100, 116, 140, 144	BPSK	6Mb/s	
		802.11ax (HE20)	CDD	100, 116, 140, 144	BPSK	MCS0	
		802.11ax (HE40)	CDD	102, 110, 134, 142	BPSK	MCS0	
		802.11ax (HE80)	CDD	106, 122, 138	BPSK	MCS0	
		802.11ax (HE160)	CDD	114	BPSK	MCS0	
	Frequency Stability	A	802.11a	-	52	un-modulation	-
		B	802.11a	-	52	un-modulation	-
C		802.11a	-	100	un-modulation	-	
AC Power Conducted Emissions	A	802.11ax (HE40)	CDD	54	BPSK	MCS0	
	B	802.11ax (HE40)	CDD	54	BPSK	MCS0	
	C	802.11ax (HE40)	CDD	102	BPSK	MCS0	

Unwanted Emissions below 1 GHz	A	802.11ax (HE40)	CDD	54	BPSK	MCS0	
	B	802.11ax (HE40)	CDD	54	BPSK	MCS0	
	C	802.11ax (HE40)	CDD	102	BPSK	MCS0	
Unwanted Emissions above 1 GHz	A	802.11a	CDD	52, 60, 64	BPSK	6Mb/s	
		802.11ax (HE20)	CDD	52, 60, 64	BPSK	MCS0	
		802.11ax (HE40)	CDD	54, 62	BPSK	MCS0	
		802.11ax (HE80)	CDD	58	BPSK	MCS0	
	B	802.11a	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s	
		802.11ax (HE20)	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0	
		802.11ax (HE40)	CDD	54, 62, 102, 110, 134, 142	BPSK	MCS0	
		802.11ax (HE80)	CDD	58, 106, 122, 138	BPSK	MCS0	
	C	802.11a	CDD	100, 116, 140, 144	BPSK	6Mb/s	
		802.11ax (HE20)	CDD	100, 116, 140, 144	BPSK	MCS0	
		802.11ax (HE40)	CDD	102, 110, 134, 142	BPSK	MCS0	
		802.11ax (HE80)	CDD	106, 122, 138	BPSK	MCS0	
		802.11ax (HE160)	CDD	114	BPSK	MCS0	
	EUT Configure Mode:	A	5GL-Radio 2				
		B	5GF-Radio 2				
C		5GH-Radio 3					

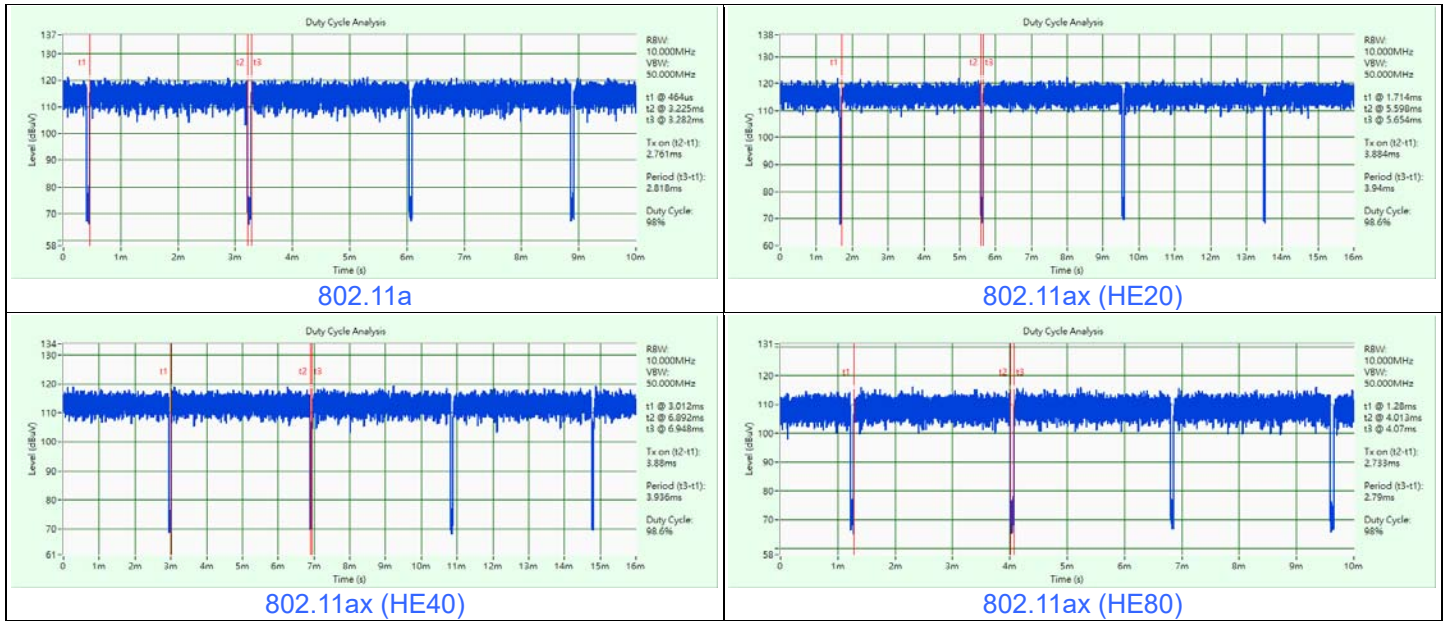
3.5 Duty Cycle of Test Signal

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 = $2.761 \text{ ms} / 2.818 \text{ ms} \times 100\% = 98.0\%$
- 802.11ax (HE20):** Duty cycle = $3.884 \text{ ms} / 3.94 \text{ ms} \times 100\% = 98.6\%$
- 802.11ax (HE40):** Duty cycle = $3.88 \text{ ms} / 3.936 \text{ ms} \times 100\% = 98.6\%$
- 802.11ax (HE80):** Duty cycle = $2.733 \text{ ms} / 2.79 \text{ ms} \times 100\% = 98.0\%$

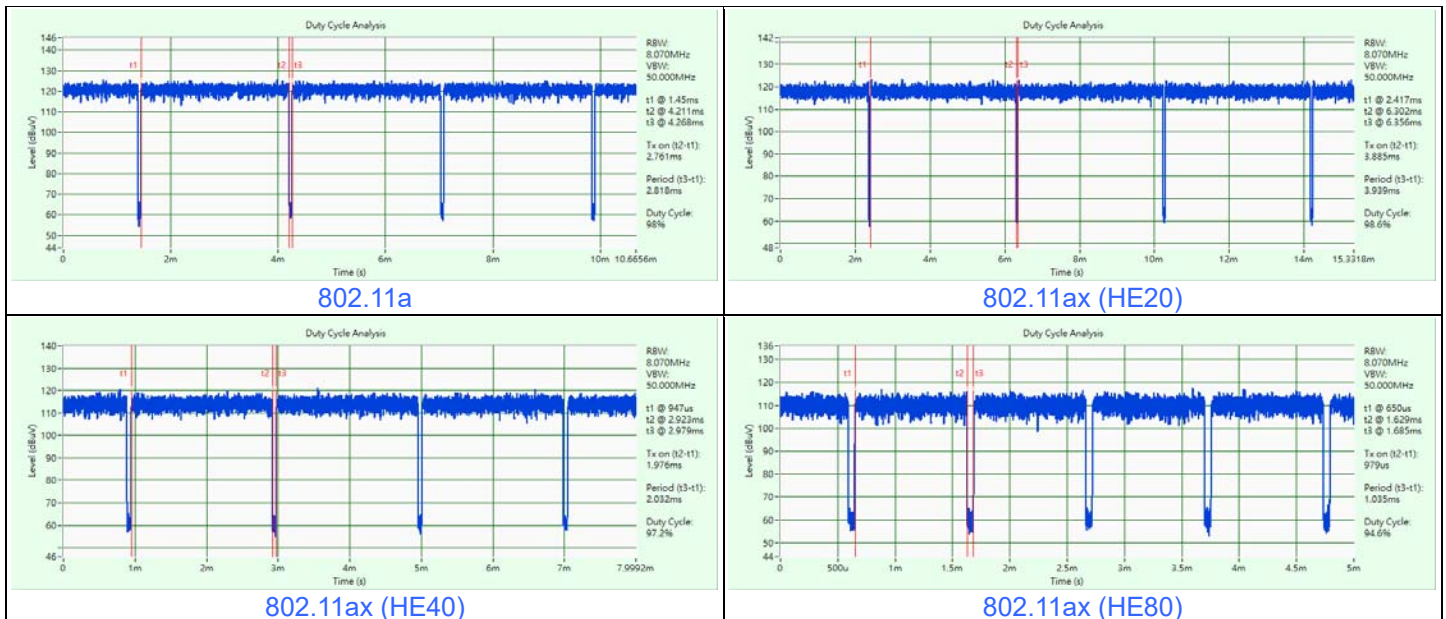


Mode B

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 = $2.761 \text{ ms} / 2.818 \text{ ms} \times 100\% = 98.0\%$
- 802.11ax (HE20):** Duty cycle = $3.885 \text{ ms} / 3.939 \text{ ms} \times 100\% = 98.6\%$
- 802.11ax (HE40):** Duty cycle = $1.976 \text{ ms} / 2.032 \text{ ms} \times 100\% = 97.2\%$, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.12 \text{ dB}$
- 802.11ax (HE80):** Duty cycle = $0.979 \text{ ms} / 1.035 \text{ ms} \times 100\% = 94.6\%$, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.24 \text{ dB}$



Mode C

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.

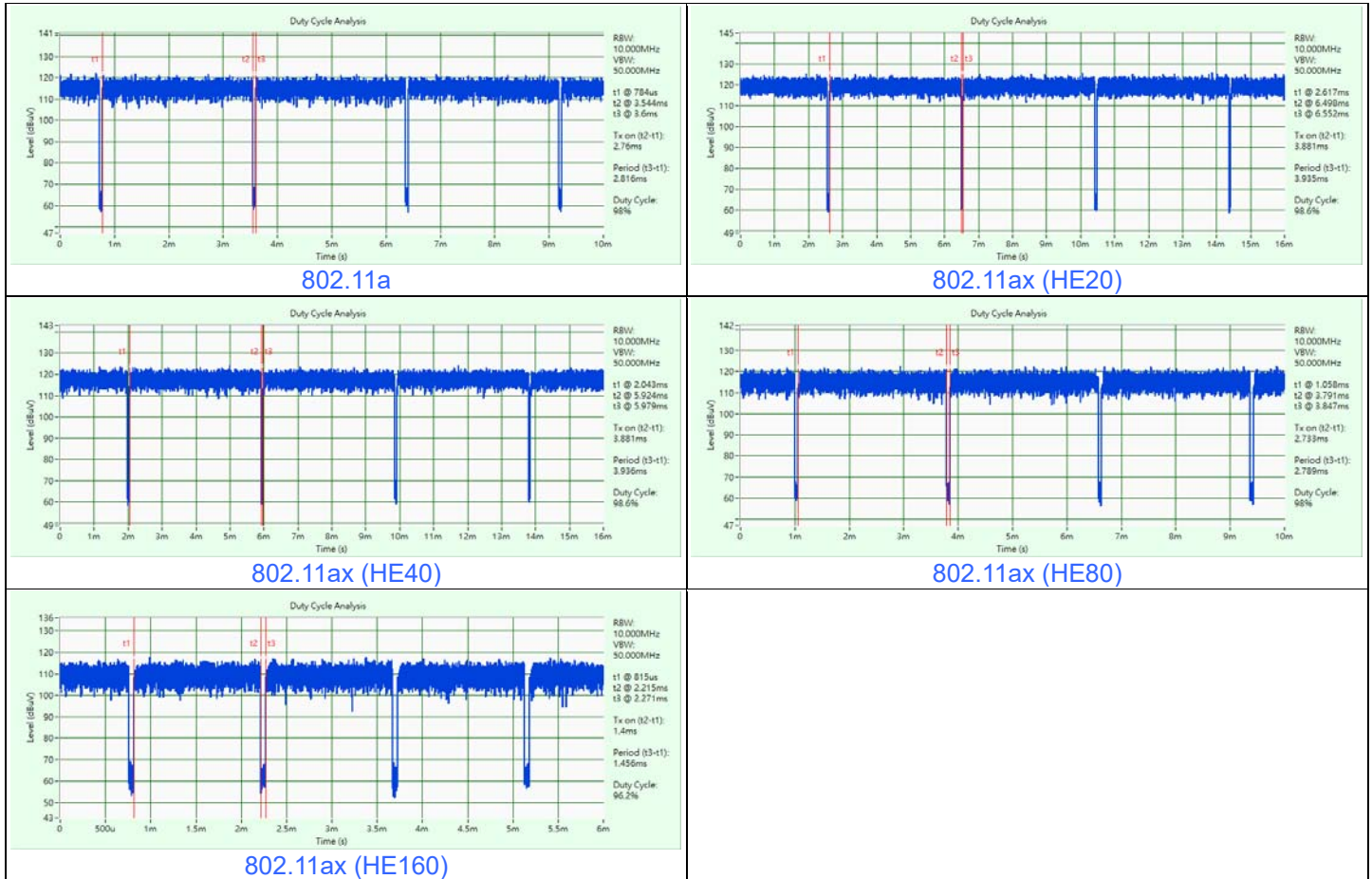
802.11a: Duty cycle = $2.76 \text{ ms} / 2.816 \text{ ms} \times 100\% = 98.0\%$

802.11ax (HE20): Duty cycle = $3.881 \text{ ms} / 3.935 \text{ ms} \times 100\% = 98.6\%$

802.11ax (HE40): Duty cycle = $3.881 \text{ ms} / 3.936 \text{ ms} \times 100\% = 98.6\%$

802.11ax (HE80): Duty cycle = $2.733 \text{ ms} / 2.789 \text{ ms} \times 100\% = 98.0\%$

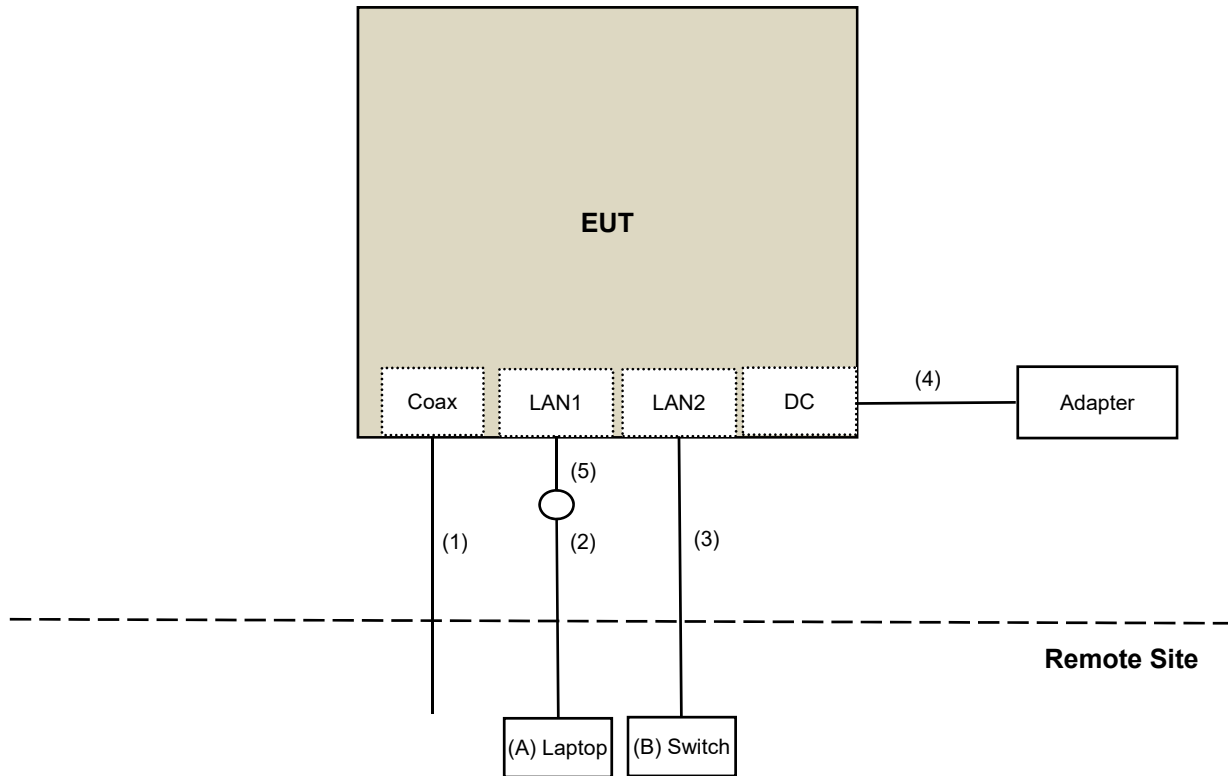
802.11ax (HE160): Duty cycle = $1.4 \text{ ms} / 1.457 \text{ ms} \times 100\% = 96.1\%$, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.17 \text{ dB}$



3.6 Test Program Used and Operation Descriptions

Controlling software (QATool_v0.0.2.73) 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-1ANPYA	N/A	Provided by Lab
B	Switch	D-Link	DGS-1005D	DR8WC92000523	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Coaxial Cable	1	10	Yes	0	Provided by Lab
2	RJ-45 Cable	1	10	No	0	Provided by Lab
3	RJ-45 Cable	1	10	No	0	Provided by Lab
4	DC Cable	1	1.8	No	0	Supplied by applicant
5	RJ-45 Cable	1	3	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	2022/4/5	2023/4/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	101516	2022/3/7	2023/3/6

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2022/7/30

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2022/4/5	2023/4/4
Power Meter Anritsu	ML2495A	1529002	2022/6/22	2023/6/21
Pulse Power Sensor Anritsu	MA2411B	1726434	2022/6/22	2023/6/21
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	101516	2022/3/7	2023/3/6

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2022/7/30

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	2022/4/5	2023/4/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	101516	2022/3/7	2023/3/6
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	2022/6/9	2023/6/8

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2022/7/30

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: 2022/7/26

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bilog Antenna Schwarzbeck	VULB 9168	9168-0842	2021/10/26	2022/10/25
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-02	2022/1/10	2023/1/9
LOOP ANTENNA Electro-Metrics	EM-6879	264	2022/3/18	2023/3/17
Pre_Amplifier Agilent	8447D	2944A10636	2022/3/19	2023/3/18
Pre_Amplifier EMCI	EMC330N	980538	2022/4/25	2023/4/24
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	966-5-1	2022/4/25	2023/4/24
		966-5-2	2022/4/25	2023/4/24
		966-5-3	2022/4/25	2023/4/24
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Spectrum Analyzer Keysight	N9020B	MY60112410	2022/3/13	2023/3/12
Test Receiver R&S	ESR3	102528	2022/2/25	2023/2/24

Notes:

1. The test was performed in 966 Chamber No. 5.
2. Tested Date: 2022/7/22

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-1819	2021/11/14	2022/11/13
	BBHA 9170	9170-739	2021/11/14	2022/11/13
Pre_Amplifier EMCI	EMC12630SE	980509	2022/4/25	2023/4/24
	EMC184045SE	980387	2022/1/10	2023/1/9
RF Cable-Frequency range: 1- 40GHz EMCI	EMC102-KM-KM-1200	160924	2022/1/10	2023/1/9
RF Coaxial Cable EMCI	EMC104-SM-SM-1500	180503	2022/4/25	2023/4/24
	EMC104-SM-SM-2000	180501	2022/4/25	2023/4/24
	EMC104-SM-SM-6000	180506	2022/4/25	2023/4/24
	EMC-KM-KM-4000	200214	2022/3/8	2023/3/7
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Spectrum Analyzer Keysight	N9020B	MY60112410	2022/3/13	2023/3/12
Test Receiver R&S	ESR3	102528	2022/2/25	2023/2/24

Notes:

1. The test was performed in 966 Chamber No. 5.
2. Tested Date: 2022/4/27 ~ 2022/7/25

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

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 ≥ 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	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) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2 (dBµV/m) ^{*1} PK: 105.2 (dBµV/m) ^{*2} PK: 110.8 (dBµV/m) ^{*3} PK: 122.2 (dBµV/m) ^{*4}
*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.	

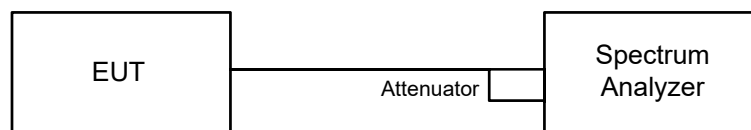
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

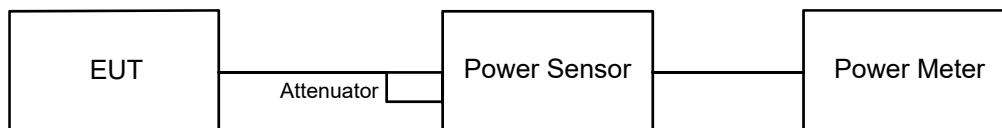


6.1.2 Test Procedure

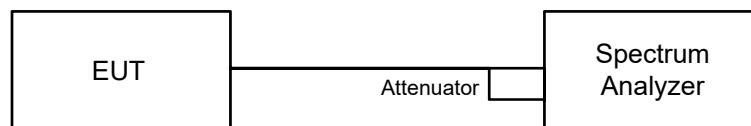
- a. Set RBW = approximately 1% of the emission bandwidth.
- b. Set the VBW > RBW.
- c. Detector = Peak.
- d. Trace mode = max hold.
- e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat 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 \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

Note: When measuring straddle channel power, use compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function, with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.

For channel straddling:

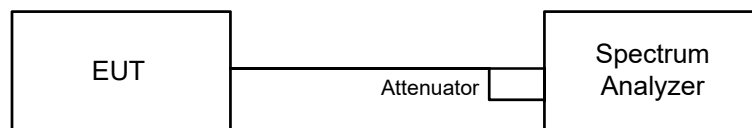
Method SA-2

- 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.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add $10 \log (1/\text{duty cycle})$.

Note: When measuring straddle channel power, use compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function, with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.

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 $\leq \text{RBW} / 2$, 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 1 MHz:

Method SA-2

- 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 $\leq \text{RBW} / 2$, 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.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add $10 \log (1/\text{duty cycle})$.

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 $\leq \text{RBW} / 2$, 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

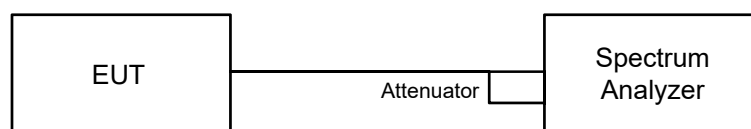
For specified measurement bandwidth 500 kHz:

Method SA-2

- 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 $BWCF = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, 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.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add 10 log (1/duty cycle).

6.4 6 dB Bandwidth

6.4.1 Test Setup

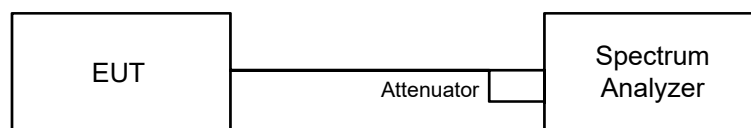


6.4.2 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$, 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

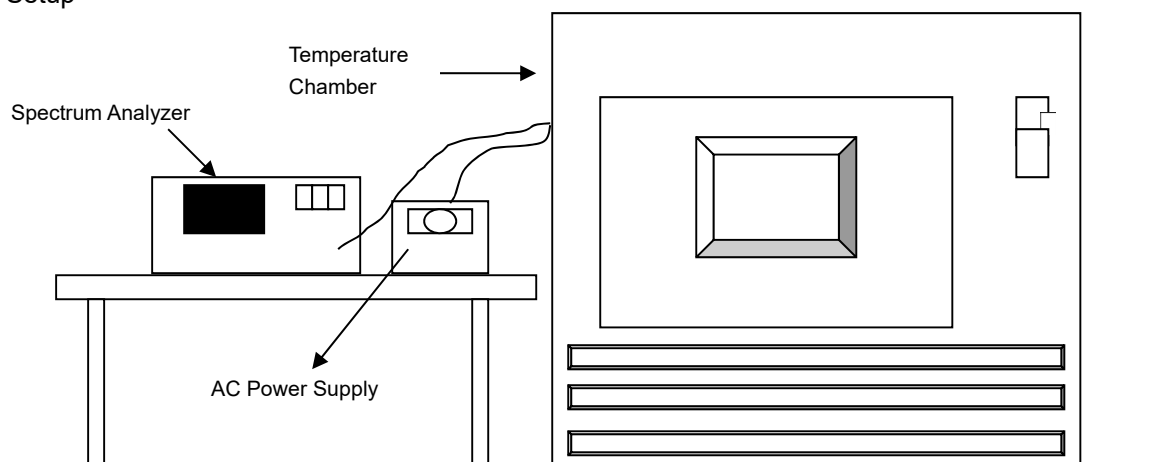


6.5.2 Test Procedure

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

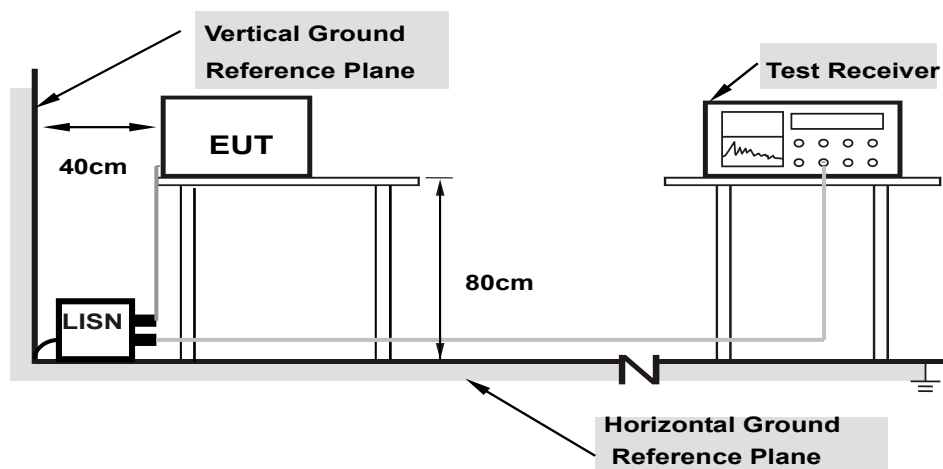


6.6.2 Test Procedure

- 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

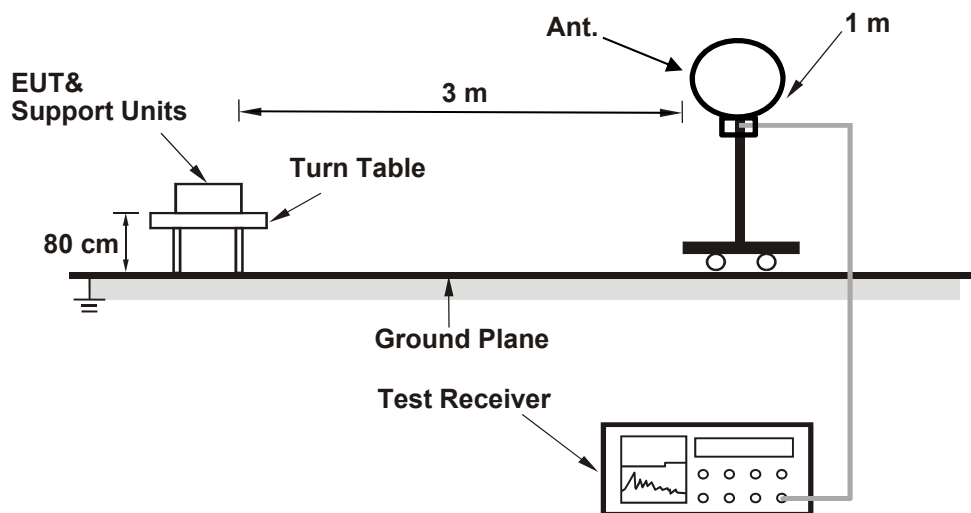
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The 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.

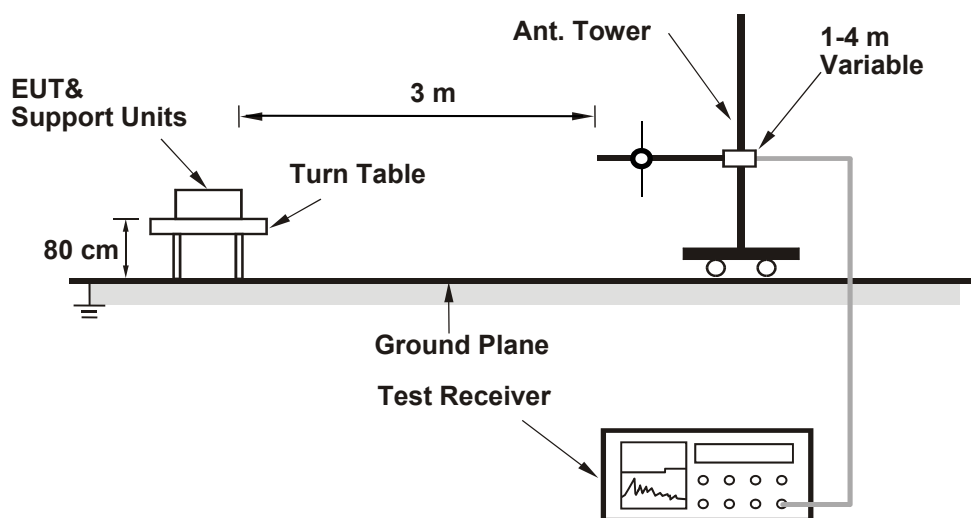
6.8 Unwanted Emissions below 1 GHz

6.8.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

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, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. 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.

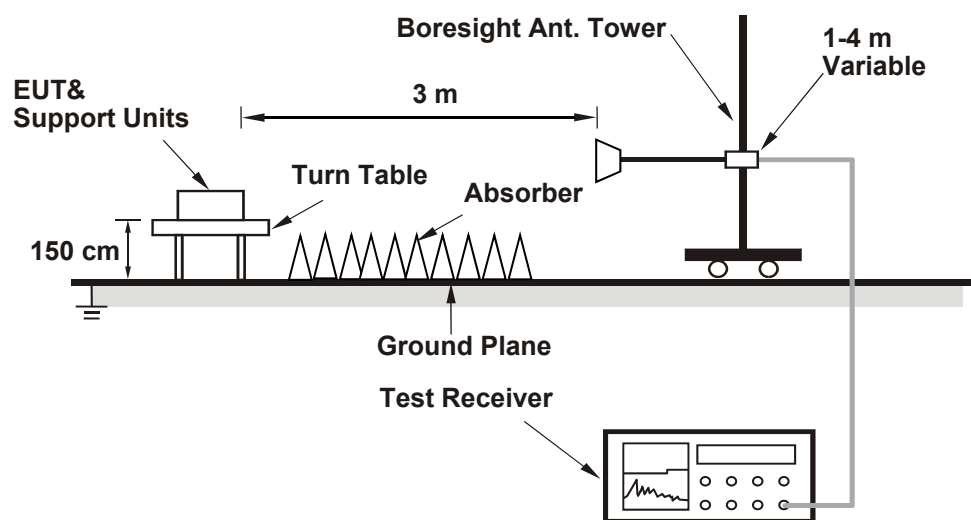
Notes:

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) and Average detection (AV) at frequency above 1 GHz.
- For fundamental and harmonic signal measurement, 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:	25°C, 76% RH	Tested By:	Pirar Hsieh
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	20.04	20.15	20.10	20.06
60	5300	20.10	20.02	20.03	20.20
64	5320	20.01	20.04	20.08	20.06

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	20.04	24.01 > 24
60	5300	20.02	24.01 > 24
64	5320	20.01	24.01 > 24

Note: For U-NII-2A 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	22.16	21.93	21.94	21.87
60	5300	22.07	21.81	22.10	22.80
64	5320	21.96	21.70	21.93	22.32

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	21.87	24.39 > 24
60	5300	21.81	24.38 > 24
64	5320	21.70	24.36 > 24

Note: For U-NII-2A 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	40.80	40.66	40.90	40.64
62	5310	42.17	40.76	40.71	40.63

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	40.64	27.08 > 24
62	5310	40.63	27.08 > 24

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

802.11ax (HE80)

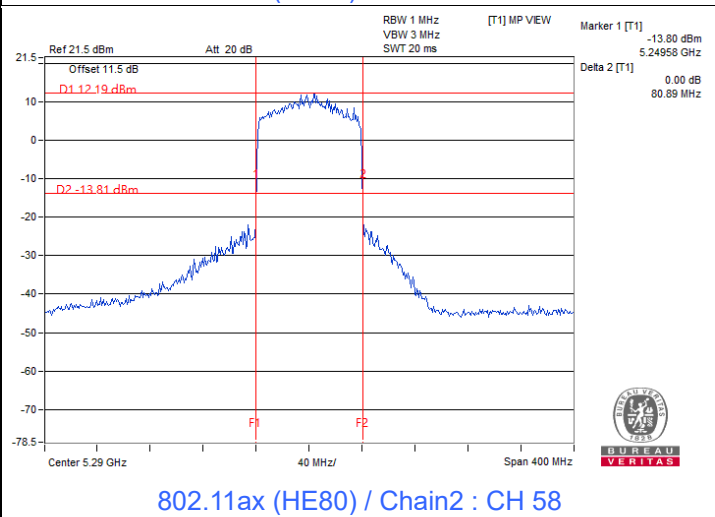
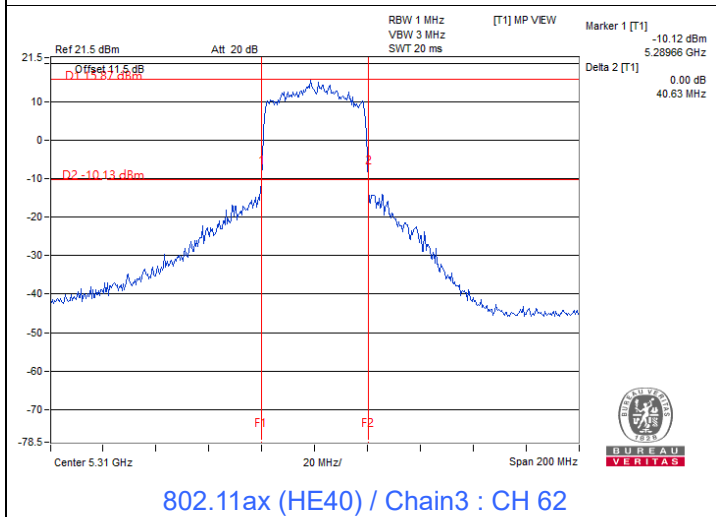
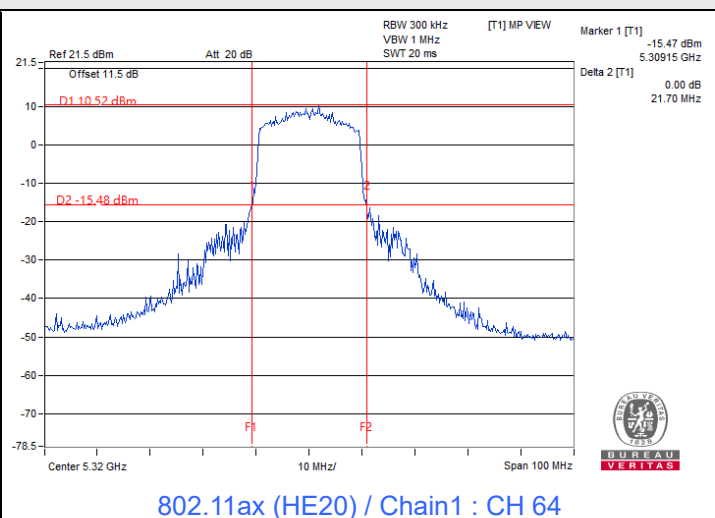
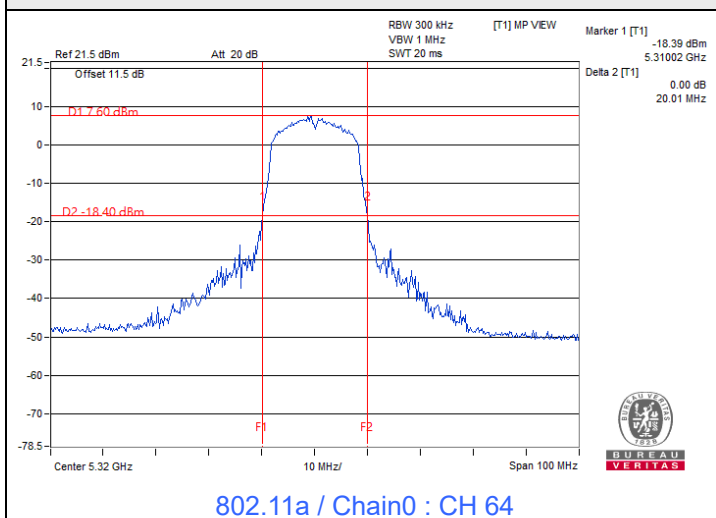
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	80.95	81.10	80.89	81.08

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	80.89	30.07 > 24

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



Spectrum Plot of Minimum Value



Mode B

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	20.00	20.07	20.03	20.13
60	5300	20.08	20.04	20.17	20.01
64	5320	20.09	20.14	20.09	20.07
100	5500	20.12	20.07	20.06	20.00
116	5580	20.09	20.07	20.12	20.09
140	5700	20.06	20.02	20.11	20.15
144 (U-NII-2C)	5720	14.96	14.95	14.89	15.08

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	20.00	24.01 > 24
60	5300	20.01	24.01 > 24
64	5320	20.07	24.02 > 24
100	5500	20.00	24.01 > 24
116	5580	20.07	24.02 > 24
140	5700	20.02	24.01 > 24
144 (U-NII-2C)	5720	14.89	22.72 < 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	21.73	21.47	21.78	22.05
60	5300	21.96	22.09	21.41	23.46
64	5320	21.54	21.52	21.74	21.79
100	5500	22.18	21.93	23.03	22.89
116	5580	22.67	22.78	22.22	22.38
140	5700	22.24	21.77	22.26	22.46
144 (U-NII-2C)	5720	16.04	16.62	15.71	16.41

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	21.41	24.3 > 24
64	5320	21.52	24.32 > 24
100	5500	21.93	24.41 > 24
116	5580	22.22	24.46 > 24
140	5700	21.77	24.37 > 24
144 (U-NII-2C)	5720	15.71	22.96 < 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	40.74	40.55	40.62	40.81
62	5310	40.82	40.75	40.63	40.74
102	5510	40.89	40.78	40.80	40.74
110	5550	40.76	40.67	40.83	40.78
134	5670	40.62	40.68	40.69	40.77
142 (U-NII-2C)	5710	35.31	35.32	35.31	35.31

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	40.55	27.07 > 24
62	5310	40.63	27.08 > 24
102	5510	40.74	27.1 > 24
110	5550	40.67	27.09 > 24
134	5670	40.62	27.08 > 24
142 (U-NII-2C)	5710	35.31	26.47 > 24

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

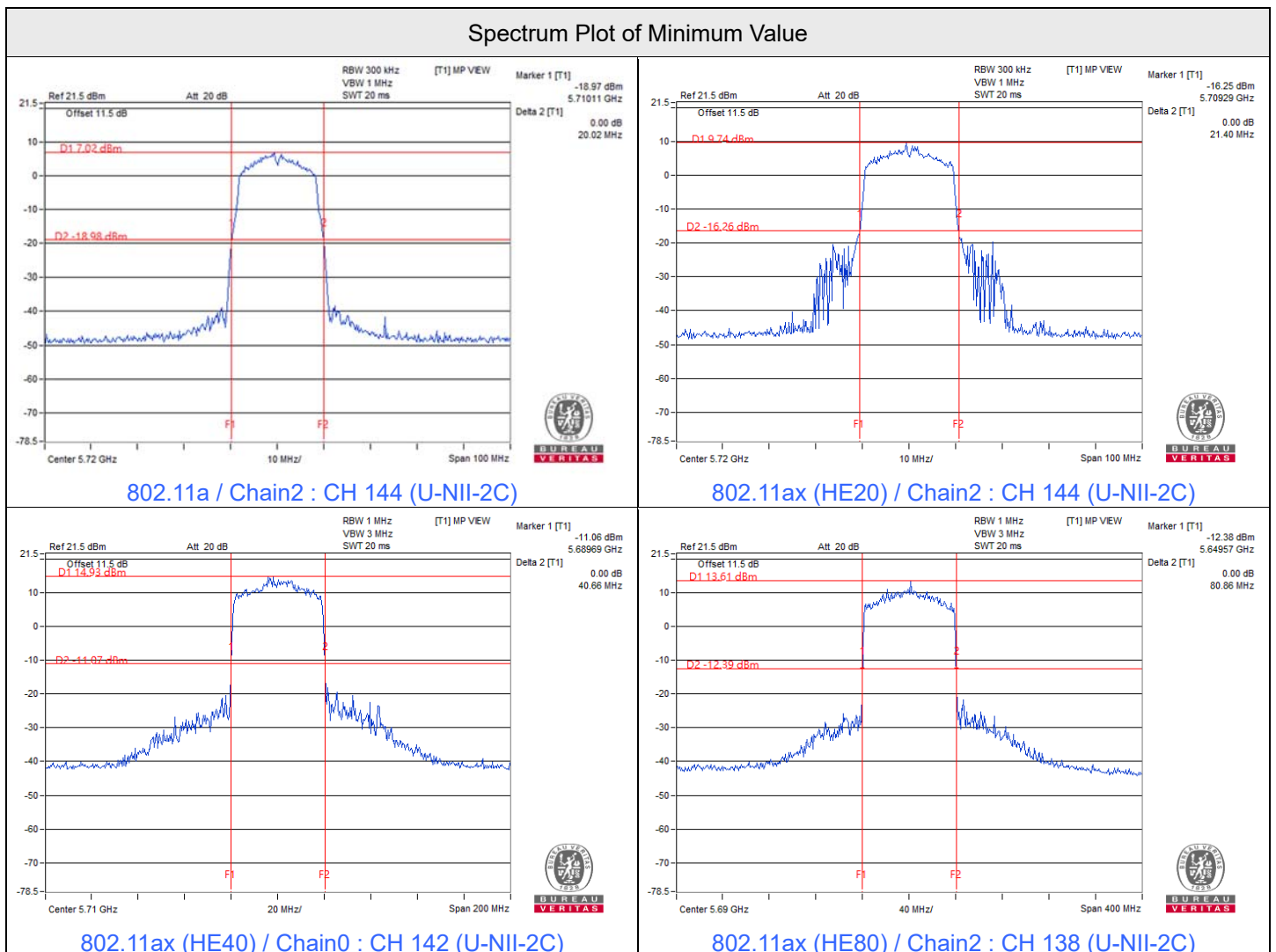


802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	81.23	81.07	81.05	81.07
106	5530	81.25	81.09	81.28	81.11
122	5610	81.22	81.20	81.11	81.09
138 (U-NII-2C)	5690	75.57	75.47	75.43	75.55

Determined Output Power Limit				
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)	
58	5290	81.05	30.08	> 24
106	5530	81.09	30.08	> 24
122	5610	81.09	30.08	> 24
138 (U-NII-2C)	5690	75.43	29.77	> 24

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



Notes:

- For U-NII-2C straddle channel = 5725 MHz - Marker 1

Mode C

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
100	5500	23.81	22.59	24.26	22.58
116	5580	20.02	20.37	20.16	20.27
140	5700	22.71	22.12	21.99	22.09
144 (U-NII-2C)	5720	15.26	14.99	15.04	15.06

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
100	5500	22.58	24.53 > 24
116	5580	20.02	24.01 > 24
140	5700	21.99	24.42 > 24
144 (U-NII-2C)	5720	14.99	22.75 < 24

Note: For 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
100	5500	23.93	22.65	22.36	23.20
116	5580	21.67	21.67	21.79	21.55
140	5700	22.53	22.47	22.40	24.26
144 (U-NII-2C)	5720	15.91	15.86	15.76	15.56

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
100	5500	22.36	24.49 > 24
116	5580	21.55	24.33 > 24
140	5700	22.40	24.5 > 24
144 (U-NII-2C)	5720	15.56	22.92 < 24

Note: For 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
102	5510	42.34	41.87	41.42	42.45
110	5550	40.48	40.64	40.53	40.63
134	5670	43.73	40.88	40.75	41.37
142 (U-NII-2C)	5710	35.39	35.16	35.38	35.19

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
102	5510	41.42	27.17 > 24
110	5550	40.48	27.07 > 24
134	5670	40.75	27.1 > 24
142 (U-NII-2C)	5710	35.16	26.46 > 24

Note: For 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
106	5530	81.25	81.14	81.28	81.27
122	5610	80.76	81.03	81.04	80.85
138 (U-NII-2C)	5690	75.49	75.39	75.39	75.44

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
106	5530	81.14	30.09 > 24
122	5610	80.76	30.07 > 24
138 (U-NII-2C)	5690	75.39	29.77 > 24

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

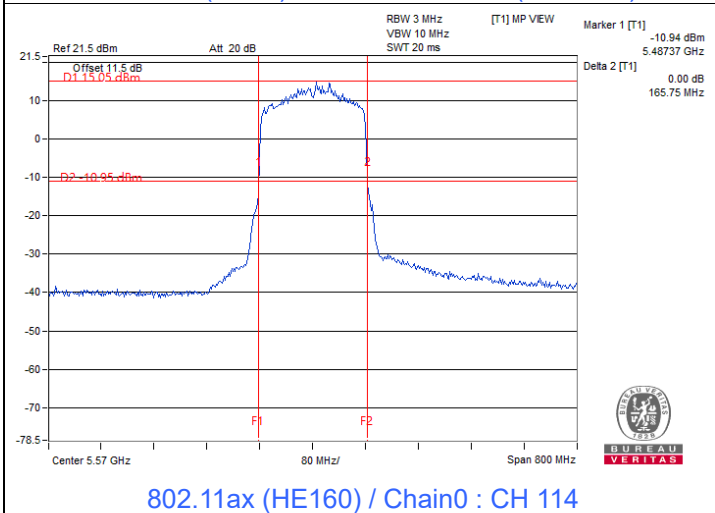
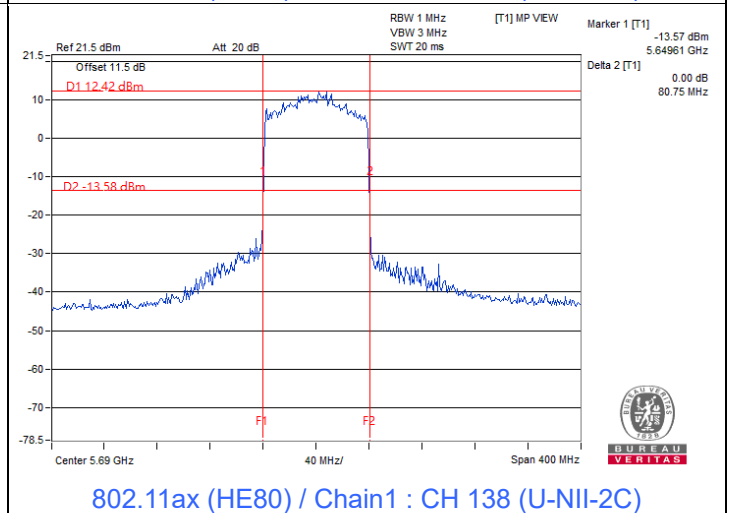
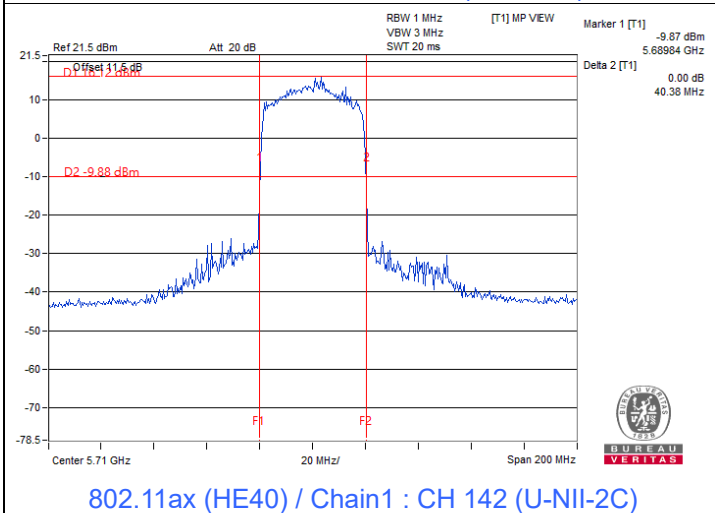
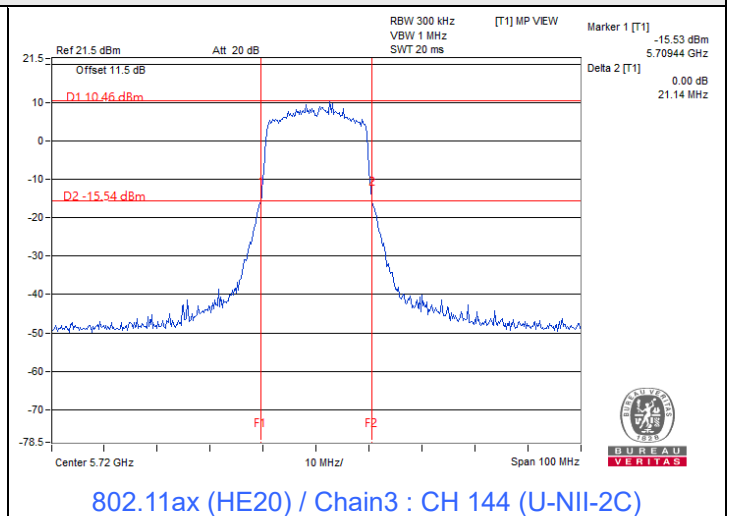
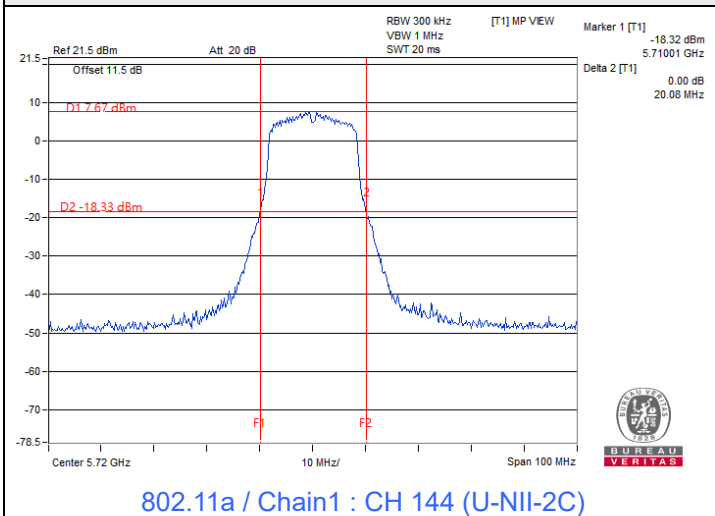
802.11ax (HE160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
114	5570	165.75	165.97	165.79	165.96

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
114	5570	165.75	33.19 > 24

Note: For 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 = 5725 MHz - Marker 1

7.2 RF Output Power

Mode A

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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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				
52	5260	14.33	14.21	13.54	13.56	98.758	19.95	24	Pass
60	5300	14.81	14.58	14.62	14.41	115.556	20.63	24	Pass
64	5320	14.67	14.35	14.19	14.13	108.66	20.36	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-2A, the directional gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) 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				
52	5260	15.26	15.19	14.48	14.39	122.144	20.87	24	Pass
60	5300	15.33	15.07	14.77	14.64	125.355	20.98	24	Pass
64	5320	15.40	15.10	15.03	14.77	128.867	21.10	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-2A, the directional gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40) 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				
54	5270	17.85	17.81	17.12	17.38	227.573	23.57	24	Pass
62	5310	17.53	17.23	16.99	16.99	209.475	23.21	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-2A, the maximum gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80) 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				
58	5290	16.56	16.51	15.96	15.73	166.918	22.23	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-2A, the maximum gain is 3.1 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				
52	5260	15.33	15.31	14.91	14.79	129.186	21.11	24	Pass
60	5300	15.48	15.16	14.89	14.88	129.721	21.13	24	Pass
64	5320	15.51	15.34	15.06	14.93	132.941	21.24	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-2A, the directional gain is 3.1 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				
54	5270	18.17	18.19	17.84	17.51	248.709	23.96	24	Pass
62	5310	17.89	17.55	17.34	17.60	230.147	23.62	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-2A, the maximum gain is 3.1 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				
58	5290	16.94	16.87	16.22	15.89	178.766	22.52	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-2A, the maximum gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) 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				
52	5260	14.10	14.12	13.34	13.35	94.731	19.76	22.8	Pass
60	5300	14.24	13.98	13.62	13.58	97.367	19.88	22.8	Pass
64	5320	14.36	14.09	13.88	13.59	100.225	20.01	22.8	Pass

Notes:

1. Directional gain = $10 \log\left[\frac{10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20}}{4}\right]$
2. For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.2-6)].

802.11ac (VHT40) 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				
54	5270	16.34	16.22	15.49	15.78	158.176	21.99	22.8	Pass
62	5310	15.92	15.71	15.42	15.45	146.232	21.65	22.8	Pass

Notes:

1. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
2. For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.2-6)].

802.11ac (VHT80) 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				
58	5290	15.51	15.40	14.94	14.66	130.667	21.16	22.8	Pass

Notes:

1. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
2. For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.2-6)].

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				
52	5260	14.21	14.15	13.82	13.59	99.32	19.97	22.8	Pass
60	5300	14.46	14.02	13.72	13.82	100.81	20.04	22.8	Pass
64	5320	14.49	14.22	13.91	13.80	103.135	20.13	22.8	Pass

Notes:

1. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
2. For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.2-6)].

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				
54	5270	16.56	16.58	16.32	15.90	172.548	22.37	22.8	Pass
62	5310	16.38	16.27	16.22	15.94	166.959	22.23	22.8	Pass

Notes:

1. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
2. For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.2-6)].

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				
58	5290	15.59	15.76	15.20	14.82	137.347	21.38	22.8	Pass

Notes:

1. Directional gain = $10 \log\left[\frac{(10^{\text{Chain}0/20} + 10^{\text{Chain}1/20} + 10^{\text{Chain}2/20} + 10^{\text{Chain}3/20})^2}{4}\right]$
2. For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.2-6)].

Mode B

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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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				
52	5260	14.79	14.31	14.39	14.44	112.384	20.51	24	Pass
60	5300	14.72	14.49	14.94	14.93	120.073	20.79	24	Pass
64	5320	14.68	14.47	14.86	14.77	117.978	20.72	24	Pass
100	5500	13.65	13.24	13.71	13.51	90.195	19.55	24	Pass
116	5580	13.66	13.69	13.89	13.90	95.653	19.81	24	Pass
140	5700	13.80	13.86	14.19	14.08	100.138	20.01	24	Pass
*144 (U-NII-2C)	5720	11.56	11.50	11.74	11.90	58.863	17.70	22.72	Pass
*144 (U-NII-3)	5720	2.87	3.00	3.68	3.01	8.265	9.17	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-2A, the directional gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) 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				
52	5260	14.63	14.35	14.63	14.47	113.297	20.54	24	Pass
60	5300	14.43	14.17	14.57	14.55	111.007	20.45	24	Pass
64	5320	14.12	14.11	14.51	14.25	106.442	20.27	24	Pass
100	5500	14.07	14.00	14.31	14.09	103.268	20.14	24	Pass
116	5580	13.99	13.93	14.06	14.21	101.61	20.07	24	Pass
140	5700	14.37	14.31	15.04	14.55	114.756	20.60	24	Pass
*144 (U-NII-2C)	5720	13.45	13.33	13.39	13.39	87.313	19.41	22.96	Pass
*144 (U-NII-3)	5720	6.57	6.61	6.54	6.44	18.035	12.56	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-2A, the directional gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40) 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				
54	5270	17.57	16.98	17.25	17.06	210.941	23.24	24	Pass
62	5310	15.52	15.83	16.33	16.15	158.091	21.99	24	Pass
102	5510	14.68	14.56	15.31	14.73	121.632	20.85	24	Pass
110	5550	17.20	17.07	17.27	17.04	207.33	23.17	24	Pass
134	5670	16.41	16.67	17.06	16.58	186.518	22.71	24	Pass
*142 (U-NII-2C)	5710	16.19	16.08	16.16	16.18	169.617	22.29	24	Pass
*142 (U-NII-3)	5710	4.62	4.21	4.36	4.34	11.29	10.53	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-2A, the maximum gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80) 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				
58	5290	13.66	13.41	13.82	13.70	92.697	19.67	24	Pass
106	5530	14.37	14.24	15.00	14.50	113.705	20.56	24	Pass
122	5610	17.06	17.49	17.49	17.49	219.13	23.41	24	Pass
*138 (U-NII-2C)	5690	16.69	16.53	16.60	16.73	195.001	22.90	24	Pass
*138 (U-NII-3)	5690	1.27	0.94	1.27	1.33	5.581	7.47	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-2A, the maximum gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3 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				
52	5260	14.93	14.62	14.88	14.75	120.705	20.82	24	Pass
60	5300	14.70	14.44	14.83	14.82	118.057	20.72	24	Pass
64	5320	14.40	14.32	14.80	14.53	113.161	20.54	24	Pass
100	5500	14.32	14.26	14.61	14.39	110.094	20.42	24	Pass
116	5580	14.29	14.18	14.33	14.42	107.807	20.33	24	Pass
140	5700	14.66	14.52	15.26	14.83	121.538	20.85	24	Pass
*144 (U-NII-2C)	5720	13.45	13.33	13.39	13.39	87.313	19.41	22.96	Pass
*144 (U-NII-3)	5720	6.57	6.61	6.54	6.44	18.035	12.56	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-2A, the directional gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 3 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				
54	5270	17.83	17.26	17.54	17.32	224.59	23.51	24	Pass
62	5310	15.77	16.13	16.54	16.37	167.21	22.23	24	Pass
102	5510	14.98	14.85	15.56	15.01	129.697	21.13	24	Pass
110	5550	17.42	17.31	17.50	17.24	218.235	23.39	24	Pass
134	5670	16.70	16.97	17.28	16.78	197.647	22.96	24	Pass
*142 (U-NII-2C)	5710	16.19	16.08	16.16	16.18	169.617	22.29	24	Pass
*142 (U-NII-3)	5710	4.62	4.21	4.36	4.34	11.29	10.53	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-2A, the maximum gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3 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				
58	5290	13.90	13.64	14.08	13.92	97.914	19.91	24	Pass
106	5530	14.63	14.50	15.29	14.80	121.23	20.84	24	Pass
122	5610	17.36	17.78	17.72	17.76	233.289	23.68	24	Pass
*138 (U-NII-2C)	5690	16.69	16.53	16.60	16.73	195.001	22.90	24	Pass
*138 (U-NII-3)	5690	1.27	0.94	1.27	1.33	5.581	7.47	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-2A, the maximum gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) 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				
52	5260	13.54	13.20	13.55	13.32	87.612	19.43	22.8	Pass
60	5300	13.40	12.99	13.40	13.45	85.793	19.33	22.8	Pass
64	5320	12.94	12.96	13.44	13.15	82.182	19.15	22.8	Pass
100	5500	12.90	12.92	13.13	12.92	79.234	18.99	22.27	Pass
116	5580	12.82	12.76	12.95	13.18	78.544	18.95	22.27	Pass
140	5700	13.26	13.18	14.03	13.38	89.051	19.50	22.27	Pass
*144 (U-NII-2C)	5720	12.15	11.93	12.07	12.09	64.289	18.08	21.23	Pass
*144 (U-NII-3)	5720	5.25	5.28	5.09	5.01	13.121	11.18	28.27	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.2-6)].
- For U-NII-2C, the directional gain is 7.73 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.73-6)].
- For U-NII-3, the directional gain is 7.73 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.73-6) = 28.27 dBm.

802.11ac (VHT40) 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				
54	5270	16.52	15.94	16.23	15.91	165.109	22.18	22.8	Pass
62	5310	14.47	14.75	15.16	15.00	122.276	20.87	22.8	Pass
102	5510	13.53	13.45	14.15	13.58	93.478	19.71	22.27	Pass
110	5550	15.87	15.79	15.95	15.82	154.118	21.88	22.27	Pass
134	5670	15.39	15.71	16.11	15.52	148.31	21.71	22.27	Pass
*142 (U-NII-2C)	5710	14.36	14.27	14.26	14.23	110.211	20.42	22.27	Pass
*142 (U-NII-3)	5710	2.65	2.32	2.41	2.41	7.23	8.59	28.27	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.2-6)].
- For U-NII-2C, the directional gain is 7.73 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.73-6)].
- For U-NII-3, the directional gain is 7.73 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (7.73 - 6) = 28.27$ dBm.

802.11ac (VHT80) 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				
58	5290	12.55	12.29	12.68	12.67	71.96	18.57	22.8	Pass
106	5530	13.34	13.15	13.89	13.39	88.549	19.47	22.27	Pass
122	5610	15.21	15.70	15.73	15.59	143.978	21.58	22.27	Pass
*138 (U-NII-2C)	5690	14.40	14.19	14.20	14.38	113.652	20.56	22.27	Pass
*138 (U-NII-3)	5690	-1.10	-1.45	-1.10	-1.02	3.2343	5.10	28.27	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.2-6)].
- For U-NII-2C, the directional gain is 7.73 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.73-6)].
- For U-NII-3, the directional gain is 7.73 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (7.73 - 6) = 28.27$ dBm.



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				
52	5260	13.77	13.45	13.79	13.70	93.33	19.70	22.8	Pass
60	5300	13.69	13.26	13.70	13.81	92.058	19.64	22.8	Pass
64	5320	13.21	13.25	13.73	13.52	88.171	19.45	22.8	Pass
100	5500	13.16	13.10	13.48	13.29	84.734	19.28	22.27	Pass
116	5580	13.26	13.07	13.31	13.40	84.767	19.28	22.27	Pass
140	5700	13.56	13.50	14.18	13.64	94.388	19.75	22.27	Pass
*144 (U-NII-2C)	5720	12.31	12.24	12.31	12.30	67.775	18.31	21.23	Pass
*144 (U-NII-3)	5720	5.43	5.54	5.49	5.30	14.001	11.46	28.27	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.2-6)].
- For U-NII-2C, the directional gain is 7.73 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.73-6)].
- For U-NII-3, the directional gain is 7.73 dBi > 6 dBi, so the output power limit shall be reduced to $30-(7.73-6) = 28.27$ 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				
54	5270	16.78	16.22	16.52	16.17	175.797	22.45	22.8	Pass
62	5310	14.72	15.05	15.37	15.22	129.338	21.12	22.8	Pass
102	5510	13.83	13.74	14.39	13.85	99.559	19.98	22.27	Pass
110	5550	16.12	15.94	16.18	15.96	161.132	22.07	22.27	Pass
134	5670	15.62	15.88	16.32	15.69	155.124	21.91	22.27	Pass
*142 (U-NII-2C)	5710	14.62	14.44	14.53	14.59	117.152	20.69	22.27	Pass
*142 (U-NII-3)	5710	2.98	2.62	2.79	2.74	7.81	8.93	28.27	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.2-6)].
- For U-NII-2C, the directional gain is 7.73 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.73-6)].
- For U-NII-3, the directional gain is 7.73 dBi > 6 dBi, so the output power limit shall be reduced to $30-(7.73-6) = 28.27$ 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				
58	5290	12.82	12.59	13.08	12.86	76.941	18.86	22.8	Pass
106	5530	13.53	13.41	14.22	13.68	94.229	19.74	22.27	Pass
122	5610	15.59	16.03	15.84	15.89	153.497	21.86	22.27	Pass
*138 (U-NII-2C)	5690	14.66	14.52	14.55	14.69	122.117	20.87	22.27	Pass
*138 (U-NII-3)	5690	-0.79	-1.07	-0.75	-0.77	3.4827	5.42	28.27	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.2-6)].
- For U-NII-2C, the directional gain is 7.73 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.73-6)].
- For U-NII-3, the directional gain is 7.73 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.73-6) = 28.27 dBm.

Mode C

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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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				
100	5500	15.86	15.88	15.41	15.75	149.611	21.75	24	Pass
116	5580	15.58	15.73	15.12	15.67	142.959	21.55	24	Pass
140	5700	15.69	15.43	15.70	15.78	146.98	21.67	24	Pass
*144 (U-NII-2C)	5720	13.83	14.03	14.01	14.03	99.917	20.00	22.75	Pass
*144 (U-NII-3)	5720	6.42	6.59	6.60	6.58	18.066	12.57	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-2C, the directional gain is 3.2 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 3.2 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) 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				
100	5500	17.08	16.79	15.97	16.32	181.195	22.58	24	Pass
116	5580	16.19	16.16	15.57	16.22	160.833	22.06	24	Pass
140	5700	17.88	16.57	16.44	16.74	198.032	22.97	24	Pass
*144 (U-NII-2C)	5720	14.33	14.46	14.53	14.41	111.012	20.45	22.92	Pass
*144 (U-NII-3)	5720	7.89	7.84	7.88	7.73	24.3	13.86	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-2C, the directional gain is 3.2 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 3.2 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40) 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				
102	5510	17.88	17.11	16.98	17.38	217.371	23.37	24	Pass
110	5550	17.92	16.92	16.89	17.49	216.118	23.35	24	Pass
134	5670	17.21	16.28	17.17	17.71	206.203	23.14	24	Pass
*142 (U-NII-2C)	5710	16.31	16.35	16.38	16.33	172.313	22.36	24	Pass
*142 (U-NII-3)	5710	4.02	3.91	3.82	3.76	9.771	9.90	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-2C, the maximum gain is 3.2 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.2 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80) 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				
106	5530	17.98	17.29	17.06	17.49	223.306	23.49	24	Pass
122	5610	17.48	17.06	16.90	17.47	211.617	23.26	24	Pass
*138 (U-NII-2C)	5690	16.73	16.74	16.88	15.81	181.163	22.58	24	Pass
*138 (U-NII-3)	5690	0.38	0.29	0.52	-0.37	4.206	6.24	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-2C, the maximum gain is 3.2 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.2 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT160) 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				
114	5570	17.85	16.87	16.97	17.47	215.215	23.33	24	Pass

Notes:

- Directional gain is the maximum gain of antennas.
- For U-NII-2C, the maximum gain is 3.2 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				
100	5500	17.46	17.30	16.17	16.58	196.321	22.93	24	Pass
116	5580	16.34	16.28	15.75	16.23	165.074	22.18	24	Pass
140	5700	18.26	17.34	16.85	16.99	219.609	23.42	24	Pass
*144 (U-NII-2C)	5720	14.33	14.46	14.53	14.41	111.012	20.45	22.92	Pass
*144 (U-NII-3)	5720	7.89	7.84	7.88	7.73	24.3	13.86	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-2C, the directional gain is 3.2 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 3.2 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				
102	5510	17.90	17.39	17.06	17.56	224.32	23.51	24	Pass
110	5550	18.06	17.12	17.03	17.61	223.639	23.50	24	Pass
134	5670	17.79	16.98	17.87	18.37	239.948	23.80	24	Pass
*142 (U-NII-2C)	5710	16.31	16.35	16.38	16.33	172.313	22.36	24	Pass
*142 (U-NII-3)	5710	4.02	3.91	3.82	3.76	9.771	9.90	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-2C, the maximum gain is 3.2 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.2 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				
106	5530	18.45	17.56	17.42	17.84	243.022	23.86	24	Pass
122	5610	17.78	17.39	17.14	17.84	227.381	23.57	24	Pass
*138 (U-NII-2C)	5690	16.73	16.74	16.88	15.81	181.163	22.58	24	Pass
*138 (U-NII-3)	5690	0.38	0.29	0.52	-0.37	4.206	6.24	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-2C, the maximum gain is 3.2 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.2 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				
114	5570	18.02	17.09	17.22	17.68	225.892	23.54	24	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-2C, the maximum gain is 3.2 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) 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				
100	5500	16.30	16.05	15.45	15.54	153.814	21.87	22.26	Pass
116	5580	15.14	15.08	14.45	15.08	124.941	20.97	22.26	Pass
140	5700	15.65	14.94	14.98	15.02	131.163	21.18	22.26	Pass
*144 (U-NII-2C)	5720	13.62	13.68	13.73	13.71	93.45	19.71	21.18	Pass
*144 (U-NII-3)	5720	7.13	7.08	7.16	7.11	20.61	13.14	28.26	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
3. For U-NII-2C, the directional gain is 7.74 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.74-6)].
4. For U-NII-3, the directional gain is 7.74 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.74-6) = 28.26 dBm.

802.11ac (VHT40) 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				
102	5510	15.92	15.38	15.22	15.69	143.932	21.58	22.26	Pass
110	5550	15.51	14.64	14.47	15.08	124.871	20.96	22.26	Pass
134	5670	15.71	14.47	15.37	15.03	131.506	21.19	22.26	Pass
*142 (U-NII-2C)	5710	14.59	14.64	14.60	14.58	115.429	20.62	22.26	Pass
*142 (U-NII-3)	5710	2.27	2.17	2.10	2.11	6.582	8.18	28.26	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
3. For U-NII-2C, the directional gain is 7.74 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.74-6)].
4. For U-NII-3, the directional gain is 7.74 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.74-6) = 28.26 dBm.

802.11ac (VHT80) 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				
106	5530	15.96	15.18	14.76	15.31	136.292	21.34	22.26	Pass
122	5610	15.98	15.02	14.68	15.27	134.424	21.28	22.26	Pass
*138 (U-NII-2C)	5690	14.91	15.02	15.16	14.05	120.962	20.83	22.26	Pass
*138 (U-NII-3)	5690	-1.44	-1.47	-1.25	-2.07	2.8014	4.47	28.26	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2C, the directional gain is 7.74 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.74-6)].
- For U-NII-3, the directional gain is 7.74 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.74-6) = 28.26 dBm.

802.11ac (VHT160) 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				
114	5570	16.08	15.09	15.25	15.61	142.724	21.54	22.26	Pass

Notes:

- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2C, the directional gain is 7.74 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.74-6)].

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				
100	5500	16.69	16.58	15.47	15.77	165.159	22.18	22.26	Pass
116	5580	15.32	15.12	14.60	15.18	128.351	21.08	22.26	Pass
140	5700	16.55	15.79	15.11	15.28	149.28	21.74	22.26	Pass
*144 (U-NII-2C)	5720	13.80	13.92	14.03	13.83	98.096	19.92	21.18	Pass
*144 (U-NII-3)	5720	7.29	7.26	7.36	7.21	21.384	13.30	28.26	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2C, the directional gain is 7.74 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.74-6)].
- For U-NII-3, the directional gain is 7.74 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.74-6) = 28.26 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				
102	5510	16.61	16.12	15.77	16.29	167.057	22.23	22.26	Pass
110	5550	16.34	15.34	15.29	15.78	148.901	21.73	22.26	Pass
134	5670	16.28	15.02	16.02	15.79	152.157	21.82	22.26	Pass
*142 (U-NII-2C)	5710	14.74	14.75	14.81	14.80	120.108	20.80	22.26	Pass
*142 (U-NII-3)	5710	2.46	2.34	2.24	2.19	6.807	8.33	28.26	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2C, the directional gain is 7.74 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.74-6)].
- For U-NII-3, the directional gain is 7.74 dBi > 6 dBi, so the output power limit shall be reduced to $30-(7.74-6) = 28.26$ 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				
106	5530	16.32	15.58	15.25	15.77	150.25	21.77	22.26	Pass
122	5610	16.44	15.59	15.19	15.73	150.728	21.78	22.26	Pass
*138 (U-NII-2C)	5690	15.21	15.18	15.30	14.27	126.765	21.03	22.26	Pass
*138 (U-NII-3)	5690	-1.17	-1.30	-1.00	-1.87	2.9496	4.70	28.26	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2C, the directional gain is 7.74 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.74-6)].
- For U-NII-3, the directional gain is 7.74 dBi > 6 dBi, so the output power limit shall be reduced to $30-(7.74-6) = 28.26$ 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				
114	5570	16.26	15.28	15.45	15.82	149.265	21.74	22.26	Pass

Notes:

- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2C, the directional gain is 7.74 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.74-6)].

7.3 Power Spectral Density

Mode A

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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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			
52	5260	3.13	2.81	2.90	3.11	9.01	9.80	Pass
60	5300	3.30	3.33	3.01	3.33	9.27	9.80	Pass
64	5320	3.10	3.17	3.01	3.32	9.17	9.80	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the power density limit shall be reduced to $11 - (7.2 - 6) = 9.8$ 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			
52	5260	3.40	3.14	3.18	3.30	9.28	9.80	Pass
60	5300	3.04	3.37	3.27	2.79	9.14	9.80	Pass
64	5320	3.15	2.96	3.17	2.51	8.98	9.80	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the power density limit shall be reduced to $11 - (7.2 - 6) = 9.8$ 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			
54	5270	2.40	2.67	2.62	2.85	8.66	9.80	Pass
62	5310	2.22	2.47	1.97	1.96	8.18	9.80	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.2-6) = 9.8$ dBm/MHz.

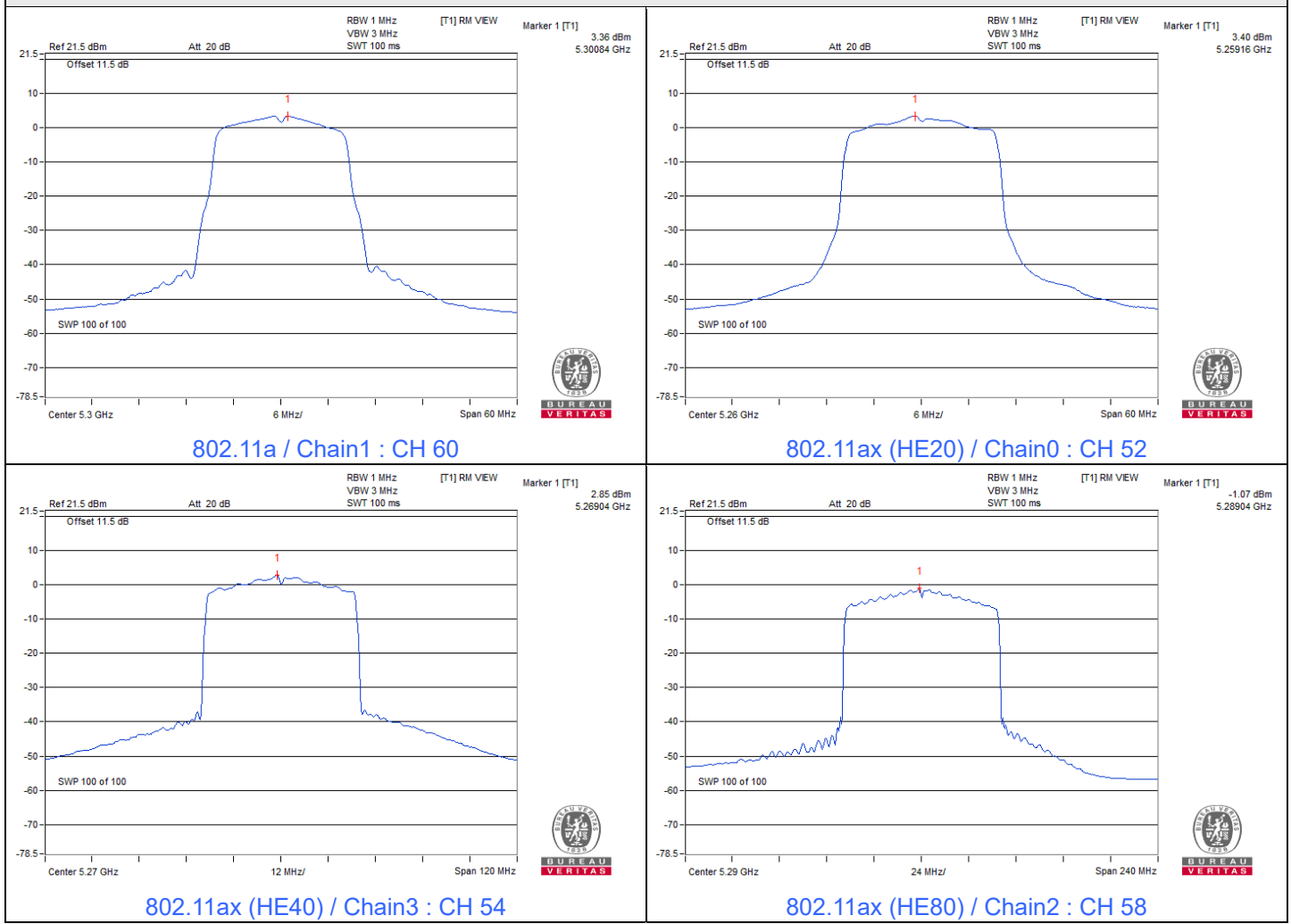
802.11ax (HE80)

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			
58	5290	-1.69	-1.45	-1.22	-2.11	4.42	9.80	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.2-6) = 9.8$ dBm/MHz.

Spectrum Plot of Maximum Value



Mode B

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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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			
52	5260	3.38	3.24	3.20	3.13	9.26	9.80	Pass
60	5300	3.42	3.25	3.15	3.23	9.28	9.80	Pass
64	5320	3.34	3.29	3.37	2.98	9.27	9.80	Pass
100	5500	2.45	2.43	2.51	2.41	8.47	9.27	Pass
116	5580	2.58	2.52	2.53	2.39	8.53	9.27	Pass
140	5700	2.59	2.47	2.27	2.40	8.45	9.27	Pass
144 (U-NII-2C)	5720	2.48	2.39	2.35	2.43	8.43	9.27	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.2-6) = 9.8$ dBm/MHz.
- For U-NII-2C, the directional gain is 7.73 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.73-6) = 9.27$ 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			
52	5260	2.71	2.97	2.96	2.93	8.91	9.80	Pass
60	5300	2.97	3.00	2.88	2.70	8.91	9.80	Pass
64	5320	2.90	3.00	2.69	2.71	8.85	9.80	Pass
100	5500	2.70	2.51	2.55	2.17	8.51	9.27	Pass
116	5580	2.37	2.43	2.41	2.41	8.43	9.27	Pass
140	5700	2.15	2.13	2.48	2.17	8.26	9.27	Pass
144 (U-NII-2C)	5720	2.59	2.38	2.39	2.45	8.47	9.27	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.2-6) = 9.8$ dBm/MHz.
- For U-NII-2C, the directional gain is 7.73 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.73-6) = 9.27$ dBm/MHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
54	5270	2.37	2.17	2.31	2.38	0.12	8.45	9.80	Pass
62	5310	1.06	1.36	1.31	1.57	0.12	7.47	9.80	Pass
102	5510	0.47	0.33	0.60	0.42	0.12	6.60	9.27	Pass
110	5550	2.59	2.41	2.57	2.41	0.12	8.64	9.27	Pass
134	5670	0.82	1.72	0.77	1.28	0.12	7.31	9.27	Pass
142 (U-NII-2C)	5710	2.06	1.81	2.03	2.02	0.12	8.12	9.27	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.2-6) = 9.8$ dBm/MHz.
- For U-NII-2C, the directional gain is 7.73 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.73-6) = 9.27$ dBm/MHz.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
58	5290	-3.83	-4.05	-3.93	-3.90	0.24	2.33	9.80	Pass
106	5530	-2.61	-2.72	-2.66	-2.61	0.24	3.61	9.27	Pass
122	5610	-0.28	-0.16	-0.19	-0.14	0.24	6.07	9.27	Pass
138 (U-NII-2C)	5690	-0.58	-0.67	-0.68	-0.63	0.24	5.62	9.27	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2A, the directional gain is 7.2 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.2-6) = 9.8$ dBm/MHz.
- For U-NII-2C, the directional gain is 7.73 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.73-6) = 9.27$ 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	-9.29	-9.35	-9.40	-9.17	-3.28	-1.06	28.27	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$

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	-8.77	-8.87	-8.92	-8.79	-2.82	-0.60	28.27	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
142 (U-NII-3)	5710	-11.09	-11.14	-11.11	-11.14	-5.1	0.12	-2.76	28.27	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$

802.11ax (HE80)

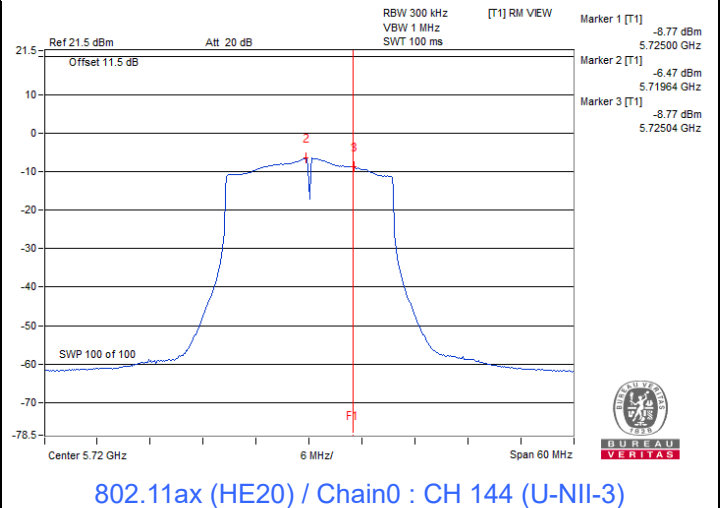
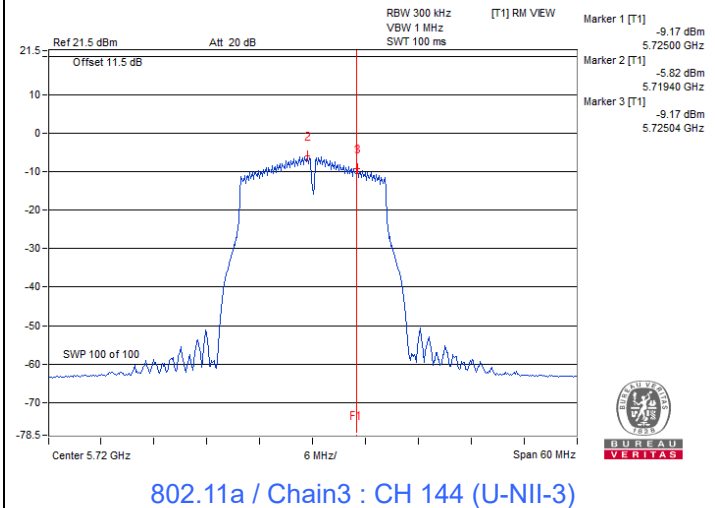
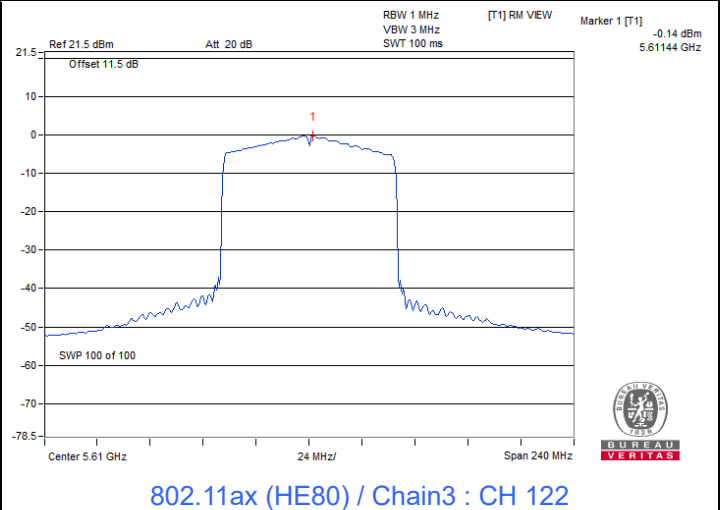
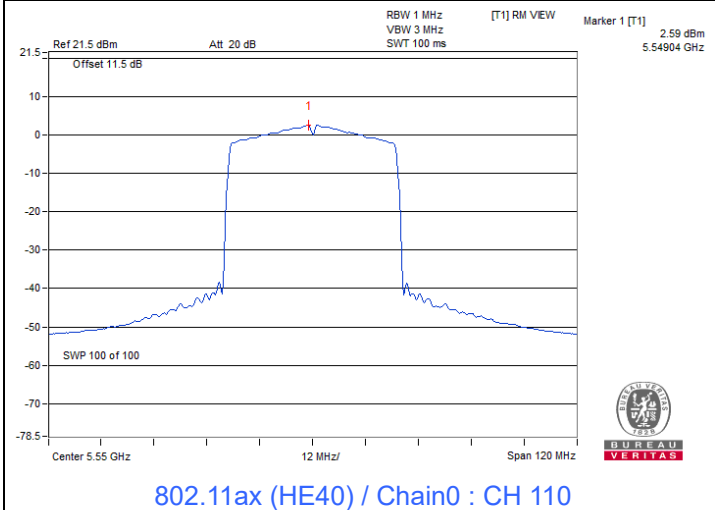
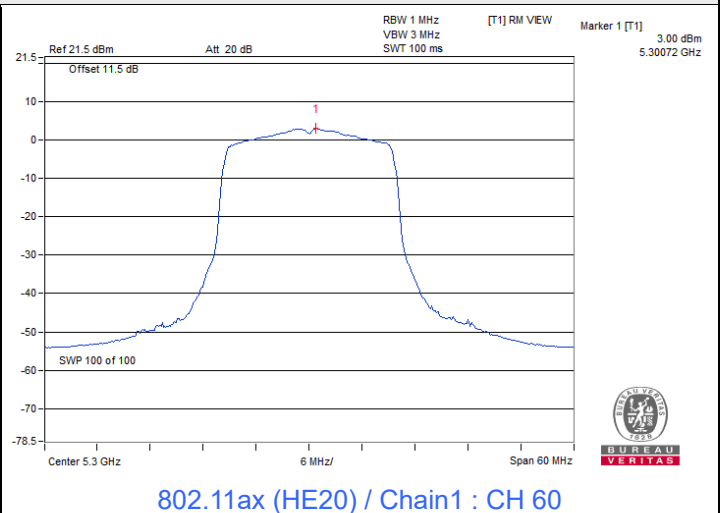
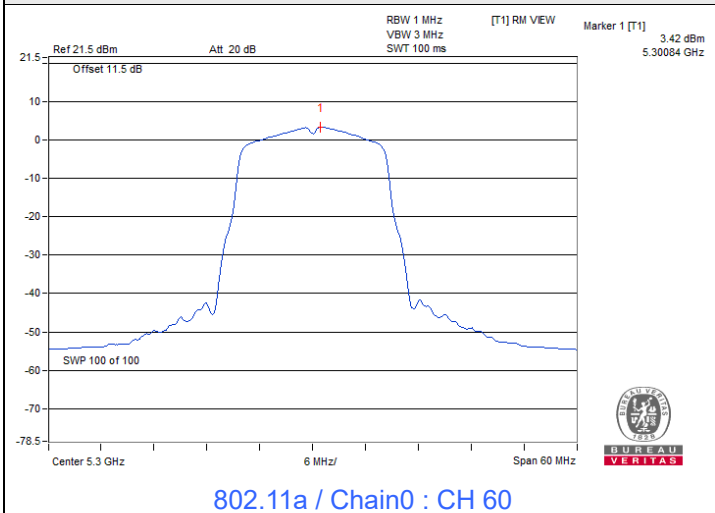
Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
138 (U-NII-3)	5690	-14.70	-14.72	-14.72	-14.66	-8.68	0.24	-6.22	28.27	Pass

Notes:

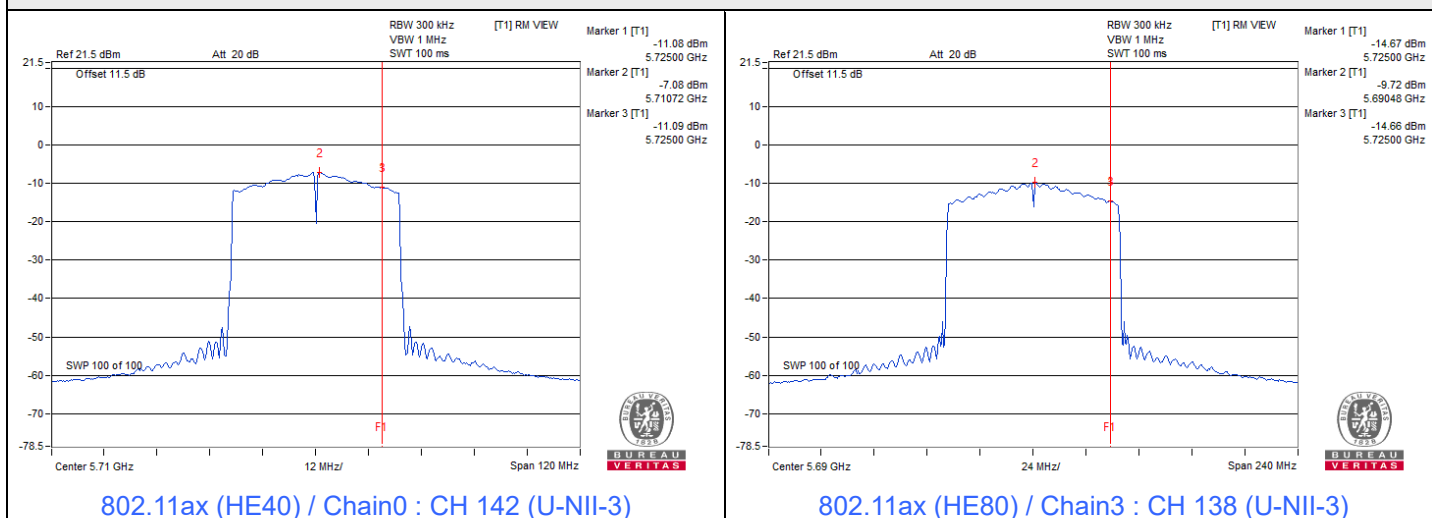
- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$



Spectrum Plot of Maximum Value



Spectrum Plot of Maximum Value



Mode C

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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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			
100	5500	2.89	3.15	3.06	3.09	9.07	9.26	Pass
116	5580	2.96	2.99	2.93	2.88	8.96	9.26	Pass
140	5700	2.69	2.75	2.82	2.82	8.79	9.26	Pass
144 (U-NII-2C)	5720	2.92	2.96	3.05	2.93	8.99	9.26	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2C, the directional gain is 7.74 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.74-6) = 9.26$ 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			
100	5500	2.91	3.02	2.99	2.94	8.99	9.26	Pass
116	5580	2.96	2.92	3.05	2.79	8.95	9.26	Pass
140	5700	2.95	2.96	2.97	2.94	8.98	9.26	Pass
144 (U-NII-2C)	5720	2.87	2.97	2.92	2.87	8.93	9.26	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2C, the directional gain is 7.74 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.74-6) = 9.26$ 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			
102	5510	2.10	2.22	2.25	2.04	8.17	9.26	Pass
110	5550	2.49	2.55	2.59	2.44	8.54	9.26	Pass
134	5670	2.07	2.21	2.20	1.97	8.13	9.26	Pass
142 (U-NII-2C)	5710	2.20	2.26	2.18	2.19	8.23	9.26	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2C, the directional gain is 7.74 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.74-6) = 9.26$ 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			
106	5530	-0.45	-0.23	-0.34	-0.31	5.69	9.26	Pass
122	5610	-0.82	-0.77	-0.76	-1.84	5.00	9.26	Pass
138 (U-NII-2C)	5690	-0.64	-0.47	-0.42	-1.49	5.29	9.26	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2C, the directional gain is 7.74 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.74-6) = 9.26$ dBm/MHz.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
114	5570	-3.69	-3.75	-3.73	-3.64	0.17	2.49	9.26	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-2C, the directional gain is 7.74 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.74-6) = 9.26$ 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	-7.39	-7.10	-7.09	-7.27	-1.19	1.03	28.26	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$

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	-7.79	-7.75	-7.70	-7.85	-1.75	0.47	28.26	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$

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	-11.57	-11.67	-11.60	-11.73	-5.62	-3.40	28.26	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$

802.11ax (HE80)

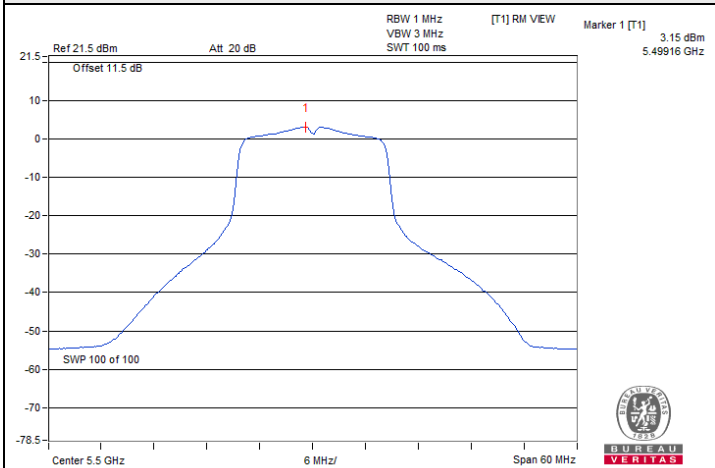
Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
138 (U-NII-3)	5690	-15.70	-15.61	-15.44	-16.57	-9.79	-7.57	28.26	Pass

Notes:

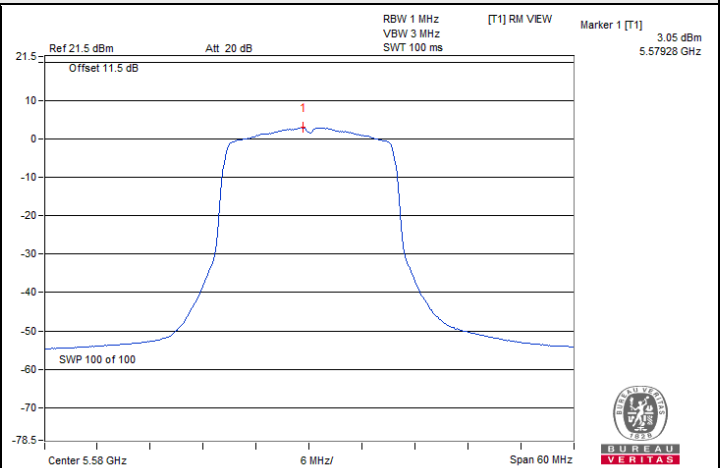
- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$



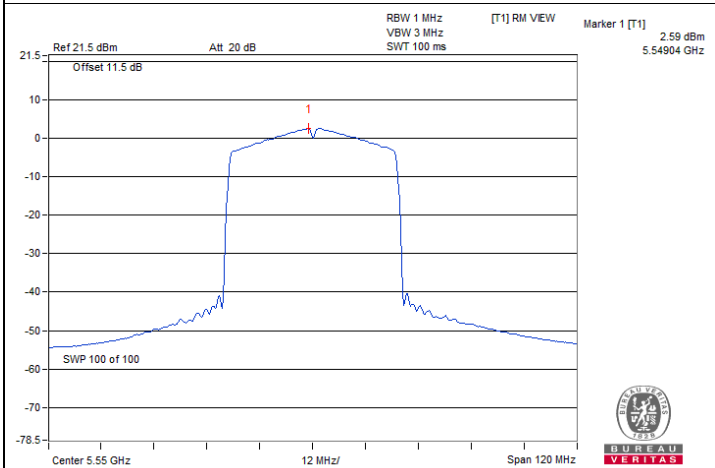
Spectrum Plot of Maximum Value



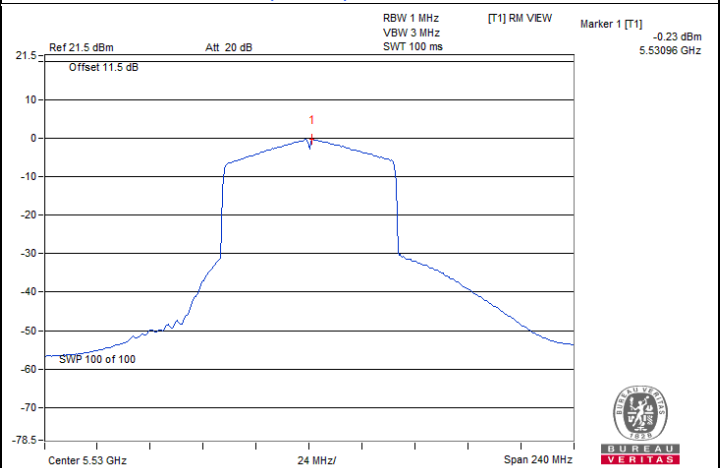
802.11a / Chain1 : CH 100



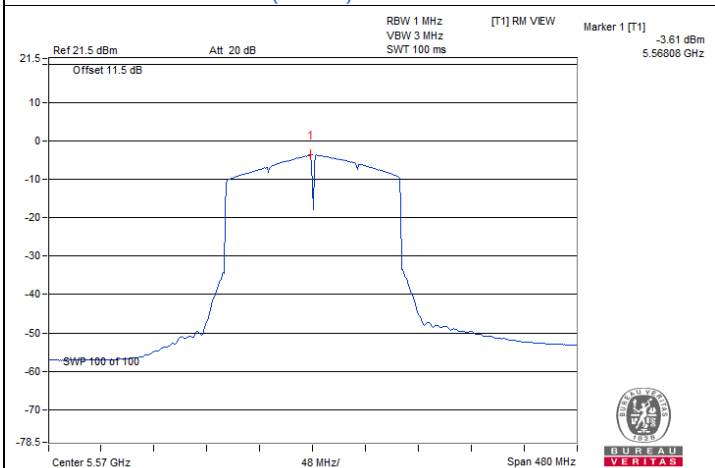
802.11ax (HE20) / Chain2 : CH 116



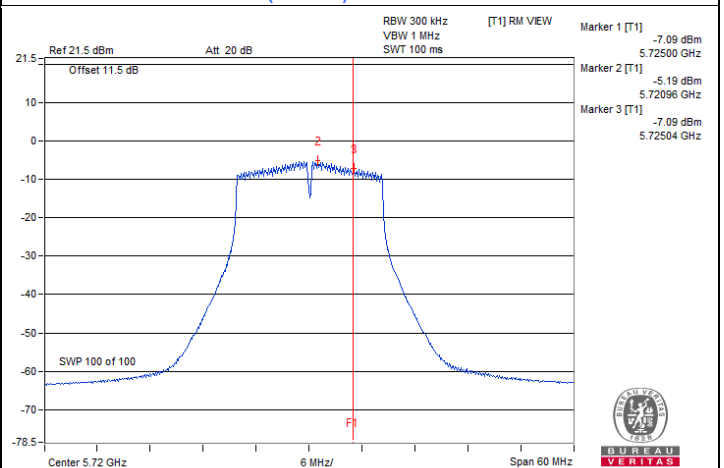
802.11ax (HE40) / Chain2 : CH 110



802.11ax (HE80) / Chain1 : CH 106

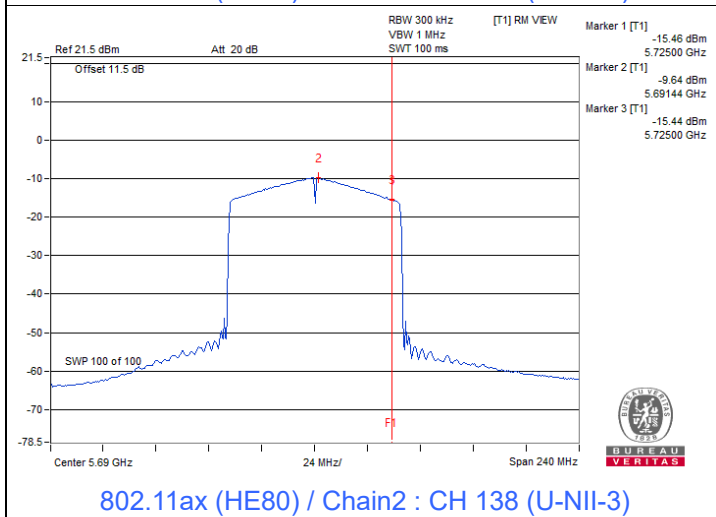
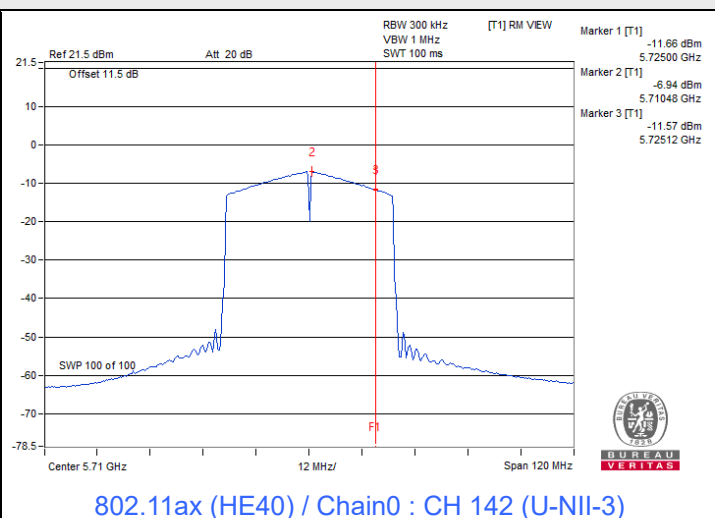
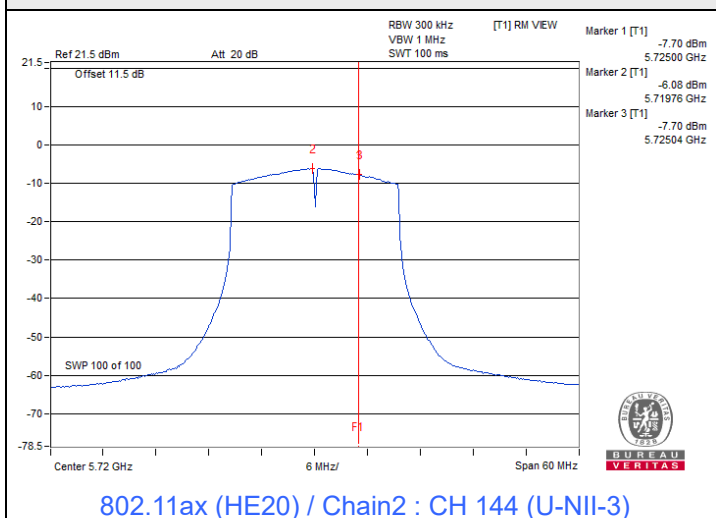


802.11ax (HE160) / Chain3 : CH 114



802.11a / Chain2 : CH 144 (U-NII-3)

Spectrum Plot of Maximum Value



7.4 6 dB Bandwidth

Mode B

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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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	2.57	2.56	2.56	2.57	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	3.21	3.40	2.59	3.25	0.5	Pass

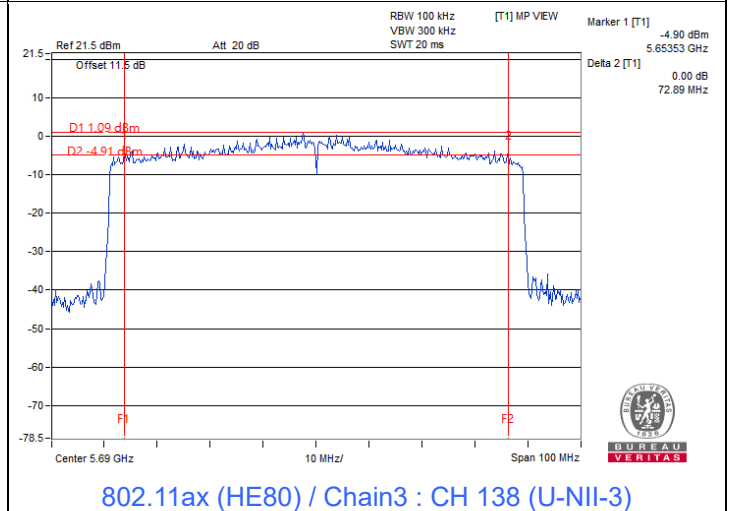
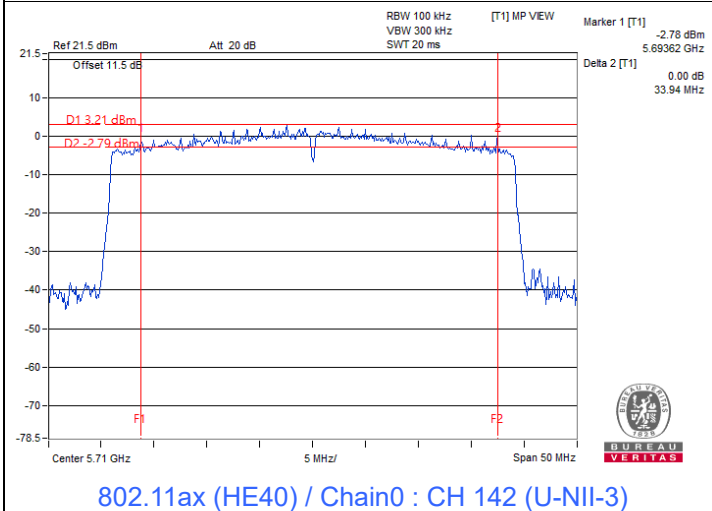
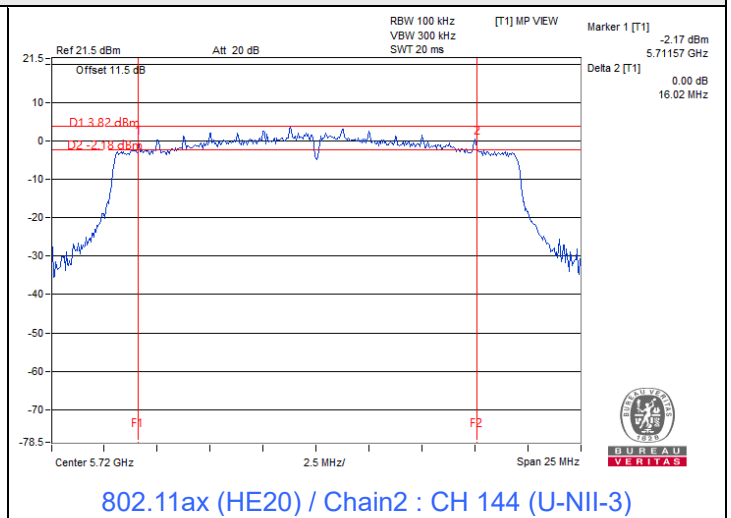
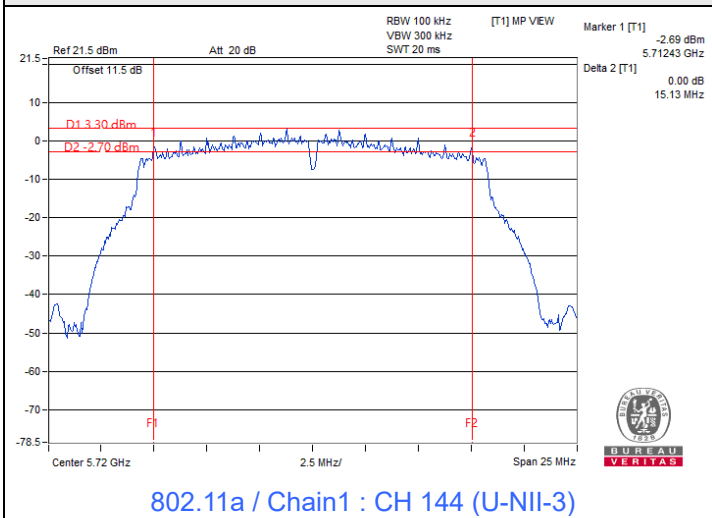
802.11ax (HE40)

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	2.56	2.64	2.62	2.65	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	2.61	2.66	2.68	1.42	0.5	Pass

Spectrum Plot of Minimum Value



Notes:

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

Mode C

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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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	3.20	2.81	2.95	2.93	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	4.23	4.01	4.10	4.16	0.5	Pass

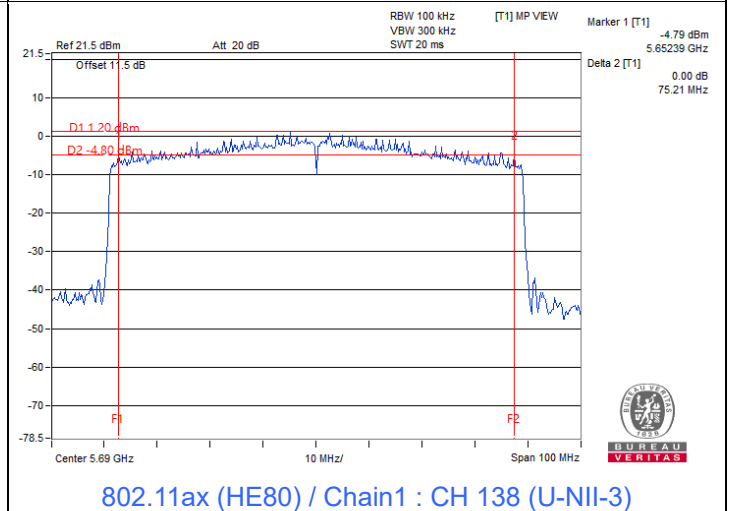
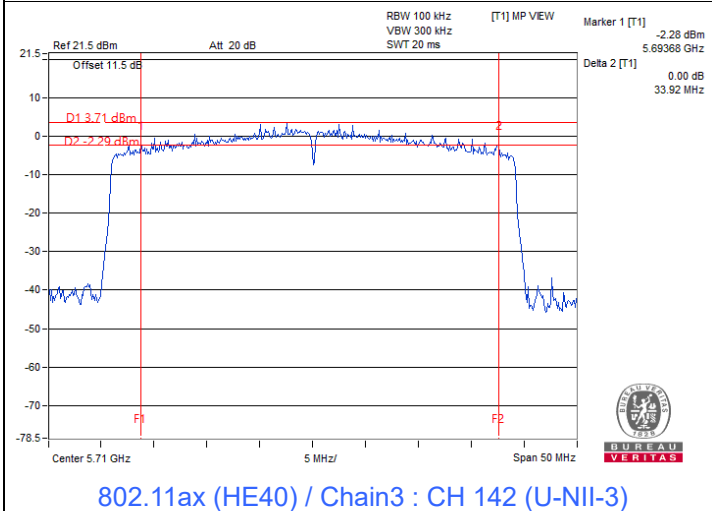
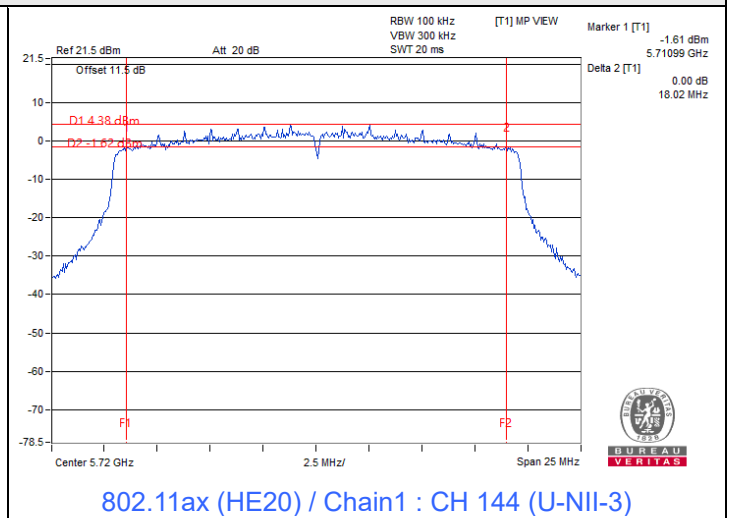
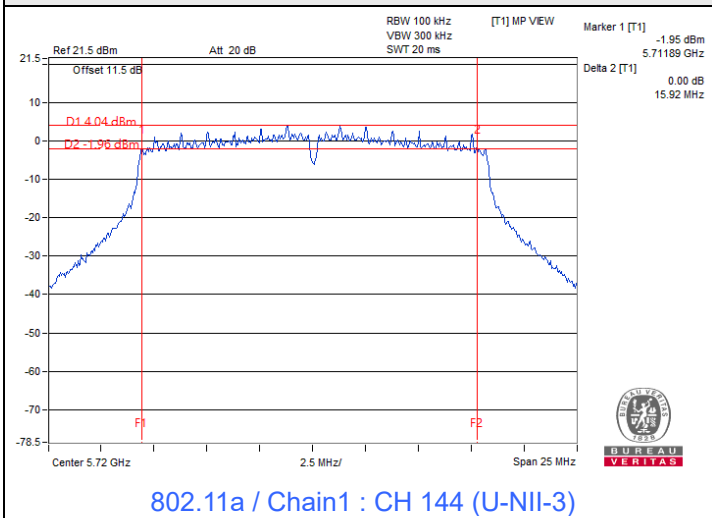
802.11ax (HE40)

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	2.64	2.62	2.62	2.60	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	2.69	2.60	2.61	2.60	0.5	Pass

Spectrum Plot of Minimum Value

**Notes:**

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

7.5 Occupied Bandwidth

Mode A

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	16.44	16.44	16.44	16.32
60	5300	16.44	16.44	16.44	16.44
64	5320	16.44	16.44	16.32	16.44

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	18.96	18.96	18.96	18.96
60	5300	18.96	18.96	18.96	18.96
64	5320	18.96	18.96	18.96	18.84

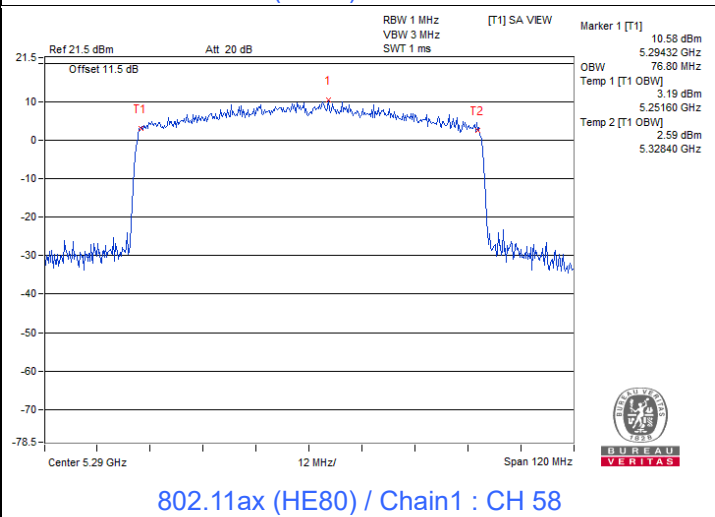
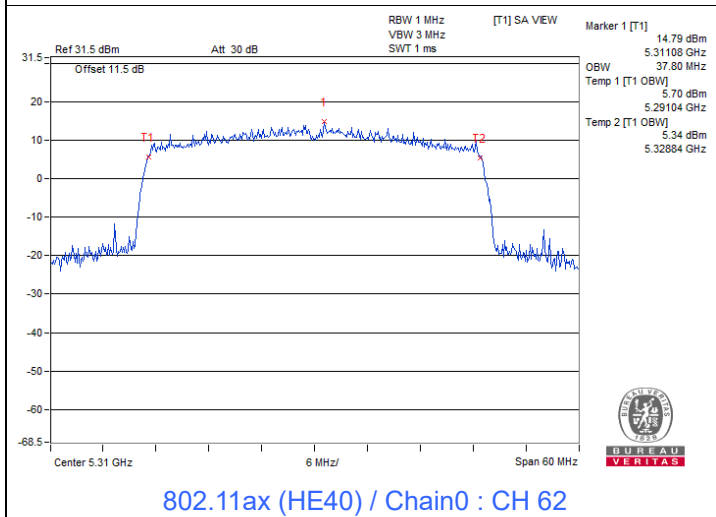
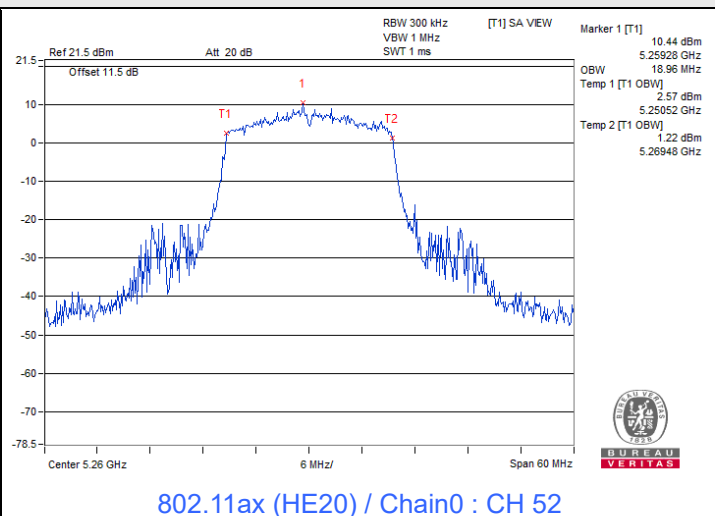
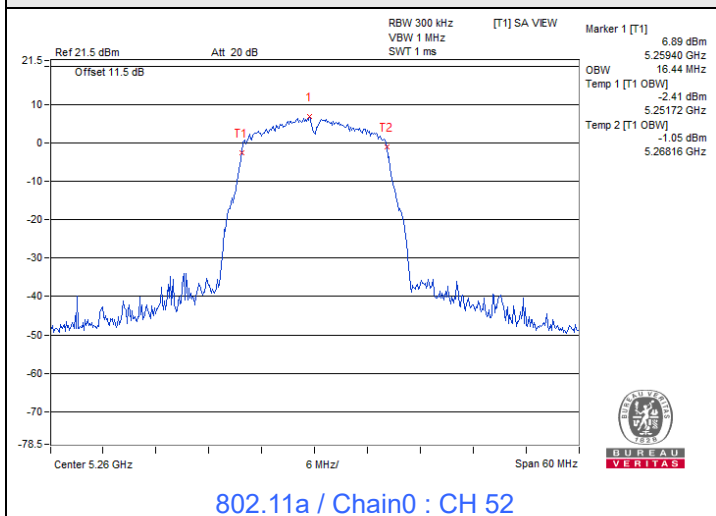
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
54	5270	37.68	37.68	37.68	37.68
62	5310	37.80	37.68	37.68	37.68

802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	76.56	76.80	76.80	76.56

Spectrum Plot of Maximum Value



Mode B

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	16.32	16.32	16.44	16.32
60	5300	16.56	16.44	16.56	16.44
64	5320	16.32	16.56	16.32	16.32
100	5500	16.32	16.32	16.32	16.44
116	5580	16.44	16.44	16.44	16.44
140	5700	16.44	16.32	16.56	16.44
144 (U-NII-2C)	5720	13.28	13.28	13.28	13.28
144 (U-NII-3)	5720	3.16	3.16	3.16	3.16

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	18.96	18.96	18.96	18.96
60	5300	18.96	18.96	18.96	18.96
64	5320	18.96	18.96	18.96	18.96
100	5500	18.96	18.96	18.96	18.96
116	5580	18.96	18.96	18.96	18.96
140	5700	18.96	18.96	18.96	18.96
144 (U-NII-2C)	5720	14.60	14.48	14.48	14.48
144 (U-NII-3)	5720	4.36	4.36	4.48	4.48

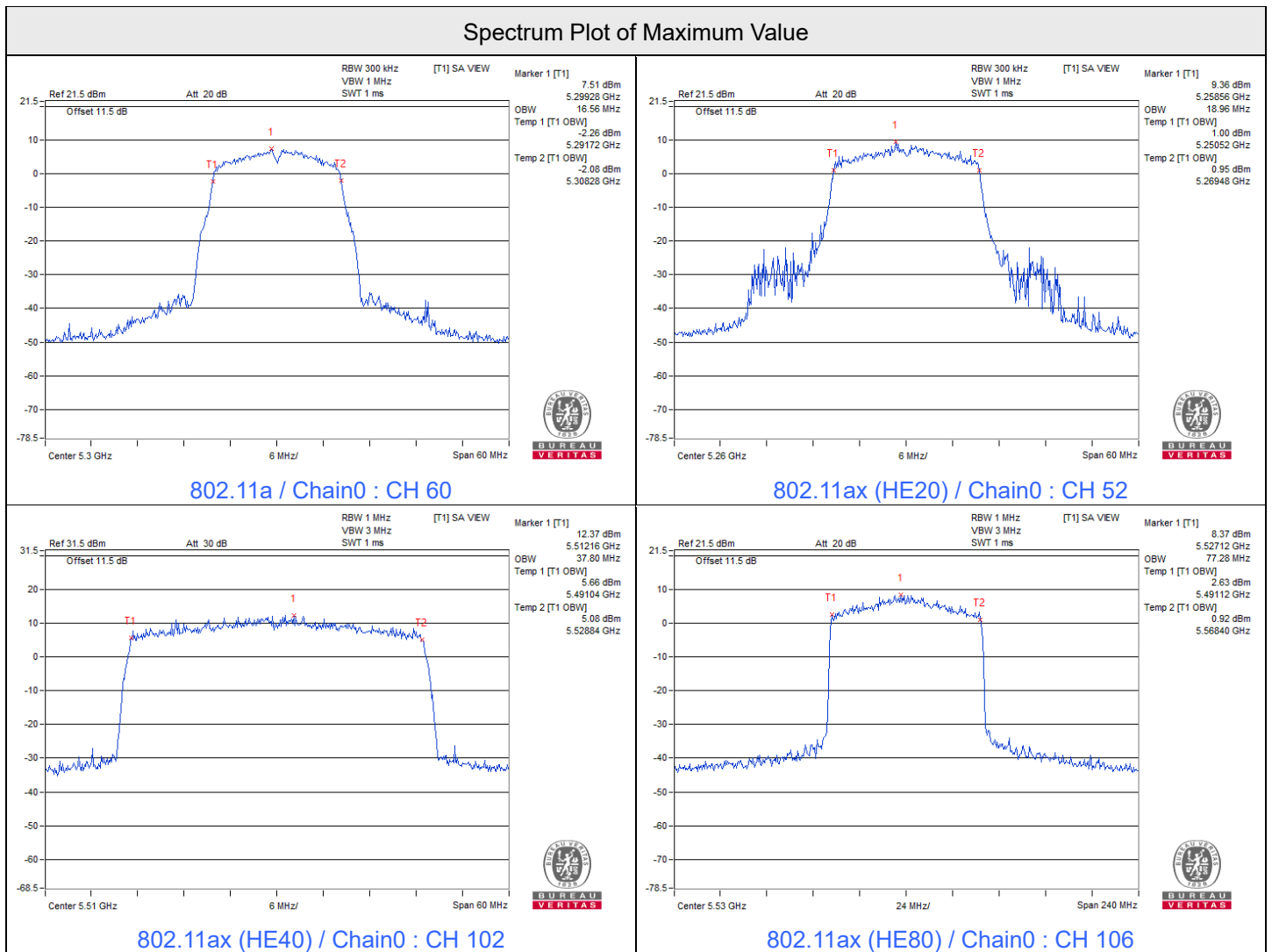
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
54	5270	37.68	37.68	37.68	37.68
62	5310	37.56	37.68	37.68	37.80
102	5510	37.80	37.80	37.68	37.56
110	5550	37.68	37.68	37.68	37.68
134	5670	37.68	37.68	37.68	37.44
142 (U-NII-2C)	5710	33.96	33.96	33.96	33.96
142 (U-NII-3)	5710	3.72	3.72	3.72	3.72



802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	76.80	76.56	76.80	76.80
106	5530	77.28	76.80	76.32	76.80
122	5610	76.80	76.80	76.80	76.56
138 (U-NII-2C)	5690	73.40	73.40	73.40	73.40
138 (U-NII-3)	5690	3.40	3.40	3.40	3.40



Mode C

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
100	5500	16.56	16.56	16.56	16.56
116	5580	16.56	16.44	16.56	16.44
140	5700	16.56	16.56	16.56	16.56
144 (U-NII-2C)	5720	13.28	13.28	13.28	13.16
144 (U-NII-3)	5720	3.28	3.16	3.16	3.28

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
100	5500	18.96	18.96	18.96	18.96
116	5580	18.96	18.96	18.96	18.96
140	5700	18.96	18.96	18.96	18.96
144 (U-NII-2C)	5720	14.48	14.48	14.48	14.48
144 (U-NII-3)	5720	4.48	4.48	4.48	4.48

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
102	5510	37.56	37.56	37.56	37.56
110	5550	37.44	37.44	37.44	37.44
134	5670	37.44	37.68	37.68	37.68
142 (U-NII-2C)	5710	33.72	33.72	33.72	33.72
142 (U-NII-3)	5710	3.72	3.72	3.72	3.72

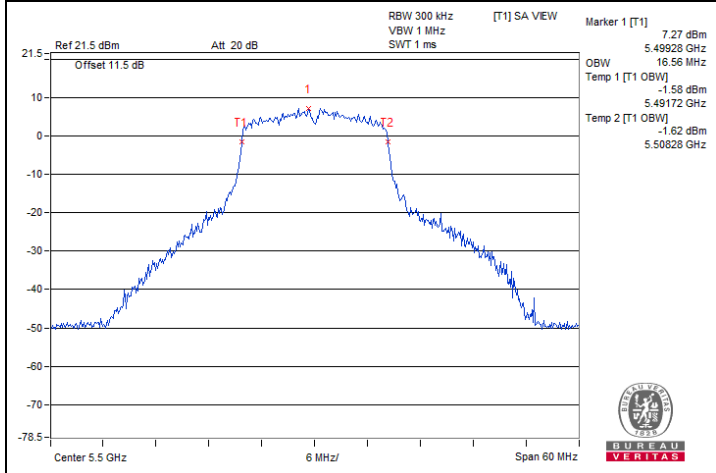
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
106	5530	76.80	76.80	76.80	76.32
122	5610	76.08	76.08	76.56	76.08
138 (U-NII-2C)	5690	73.40	73.40	73.40	73.40
138 (U-NII-3)	5690	2.92	3.40	2.92	3.40

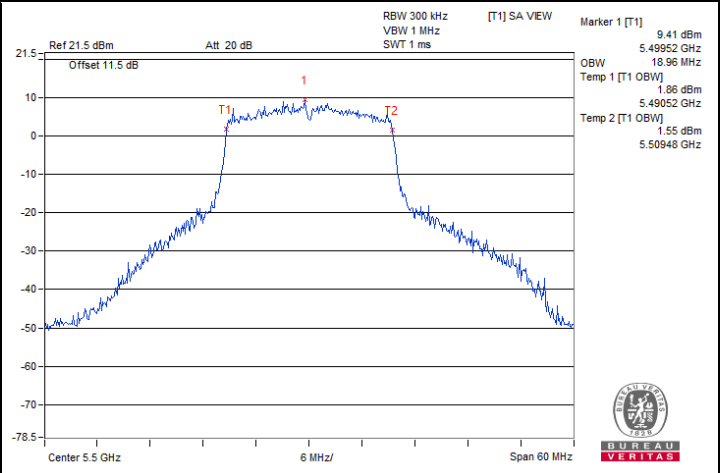
802.11ax (HE160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
114	5570	155.52	155.52	155.52	155.52

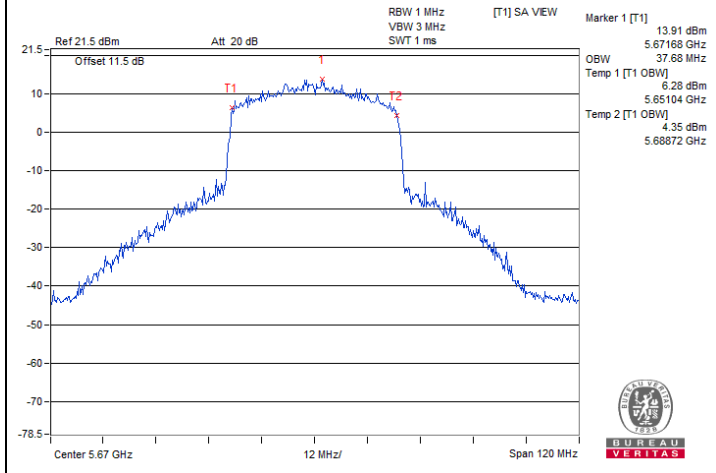
Spectrum Plot of Maximum Value



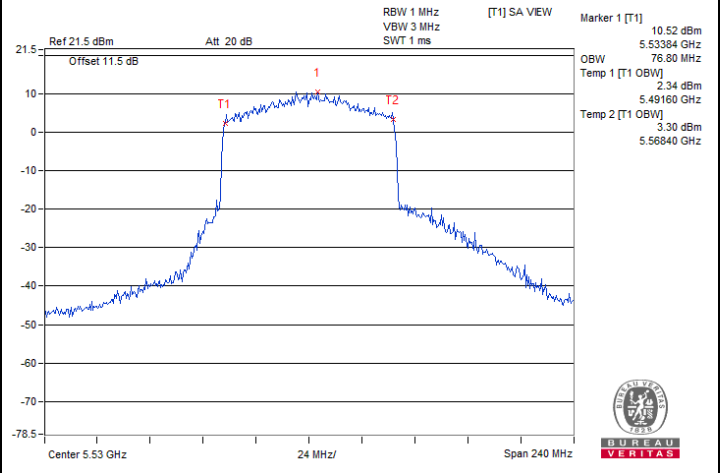
802.11a / Chain0 : CH 100



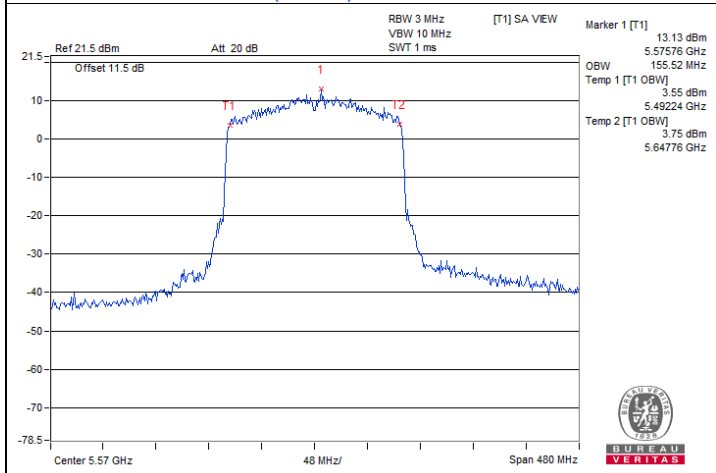
802.11ax (HE20) / Chain0 : CH 100



802.11ax (HE40) / Chain1 : CH 134



802.11ax (HE80) / Chain0 : CH 106



802.11ax (HE160) / Chain0 : CH 114

7.6 Frequency Stability

Mode A

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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802.11a

Frequency Stability Versus Temp.									
Operating Frequency: 5260 MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
40	120	5260.0188	Pass	5260.0177	Pass	5260.0197	Pass	5260.0188	Pass
30	120	5260.005	Pass	5260.0008	Pass	5260.0043	Pass	5260.0032	Pass
20	120	5259.9889	Pass	5259.9864	Pass	5259.9887	Pass	5259.9847	Pass
10	120	5259.9952	Pass	5259.9969	Pass	5259.9955	Pass	5259.9959	Pass
5	120	5259.9969	Pass	5259.9967	Pass	5259.996	Pass	5259.9979	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5260 MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	138	5259.9877	Pass	5259.9847	Pass	5259.9871	Pass	5259.9877	Pass
	120	5259.9889	Pass	5259.9864	Pass	5259.9887	Pass	5259.9847	Pass
	102	5259.9963	Pass	5259.9914	Pass	5259.9929	Pass	5259.9951	Pass

Mode B

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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802.11a

Frequency Stability Versus Temp.									
Operating Frequency: 5260 MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
40	120	5260.0243	Pass	5260.0232	Pass	5260.02	Pass	5260.0243	Pass
30	120	5260.0169	Pass	5260.018	Pass	5260.0215	Pass	5260.0215	Pass
20	120	5259.9754	Pass	5259.9729	Pass	5259.9756	Pass	5259.9716	Pass
10	120	5260.0015	Pass	5260.0033	Pass	5260.0019	Pass	5260.0023	Pass
5	120	5259.9779	Pass	5259.9776	Pass	5259.977	Pass	5259.9736	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5260 MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	138	5259.9702	Pass	5259.9671	Pass	5259.9696	Pass	5259.9702	Pass
	120	5259.9754	Pass	5259.9729	Pass	5259.9756	Pass	5259.9716	Pass
	102	5259.9787	Pass	5259.9755	Pass	5259.977	Pass	5259.9792	Pass

Mode C

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Pirar Hsieh
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802.11a

Frequency Stability Versus Temp.									
Operating Frequency: 5500 MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
40	120	5499.9856	Pass	5499.9899	Pass	5499.9865	Pass	5499.9855	Pass
30	120	5500.0261	Pass	5500.0272	Pass	5500.0254	Pass	5500.0254	Pass
20	120	5500.022	Pass	5500.0194	Pass	5500.0217	Pass	5500.0231	Pass
10	120	5499.979	Pass	5499.9794	Pass	5499.9779	Pass	5499.9783	Pass
5	120	5499.9808	Pass	5499.9805	Pass	5499.9799	Pass	5499.9763	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5500 MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	138	5500.011	Pass	5500.0119	Pass	5500.009	Pass	5500.0096	Pass
	120	5500.022	Pass	5500.0194	Pass	5500.0217	Pass	5500.0231	Pass
	102	5500.0127	Pass	5500.0131	Pass	5500.0146	Pass	5500.0114	Pass

7.7 AC Power Conducted Emissions

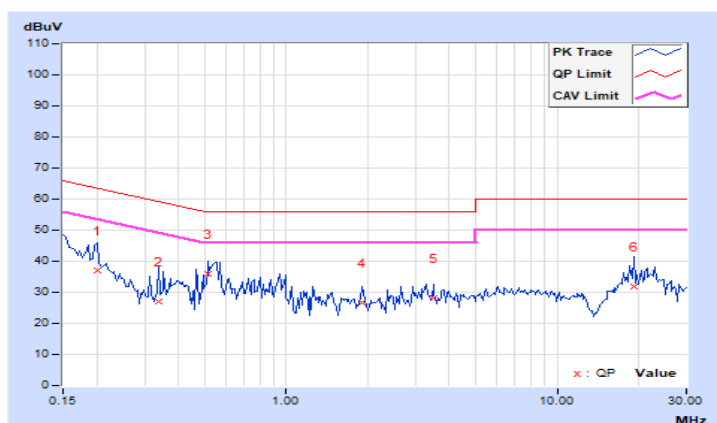
Mode A

RF Mode	TX 802.11ax (HE40)	Channel	CH 54 : 5270 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, 67% RH
Tested By	Sampson Chen		

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	0.20078	10.05	26.84	14.72	36.89	24.77	63.58	53.58	-26.69	-28.81
2	0.33750	10.06	16.89	8.82	26.95	18.88	59.26	49.26	-32.31	-30.38
3	0.51719	10.07	25.97	22.10	36.04	32.17	56.00	46.00	-19.96	-13.83
4	1.91016	10.17	16.68	10.74	26.85	20.91	56.00	46.00	-29.15	-25.09
5	3.50391	10.28	18.05	10.68	28.33	20.96	56.00	46.00	-27.67	-25.04
6	19.28906	11.28	20.50	13.36	31.78	24.64	60.00	50.00	-28.22	-25.36

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

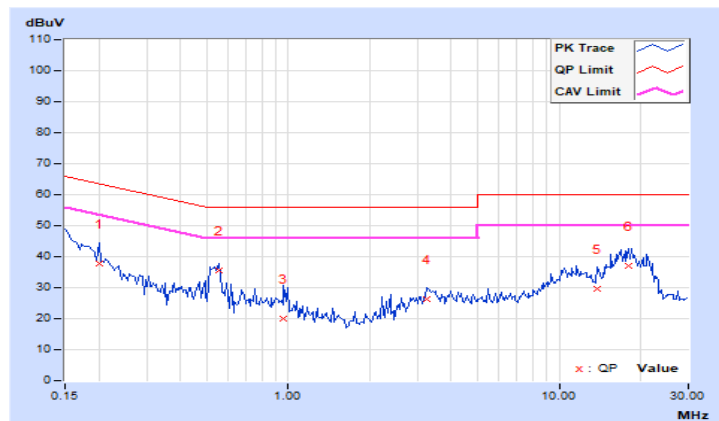


RF Mode	TX 802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 67% RH
Tested By	Sampson Chen		

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	0.20078	10.05	27.85	12.30	37.90	22.35	63.58	53.58	-25.68	-31.23
2	0.55234	10.07	25.53	23.83	35.60	33.90	56.00	46.00	-20.40	-12.10
3	0.95859	10.11	9.72	5.57	19.83	15.68	56.00	46.00	-36.17	-30.32
4	3.23828	10.24	15.93	7.29	26.17	17.53	56.00	46.00	-29.83	-28.47
5	13.79297	10.82	18.90	13.06	29.72	23.88	60.00	50.00	-30.28	-26.12
6	18.07031	11.02	26.07	19.87	37.09	30.89	60.00	50.00	-22.91	-19.11

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



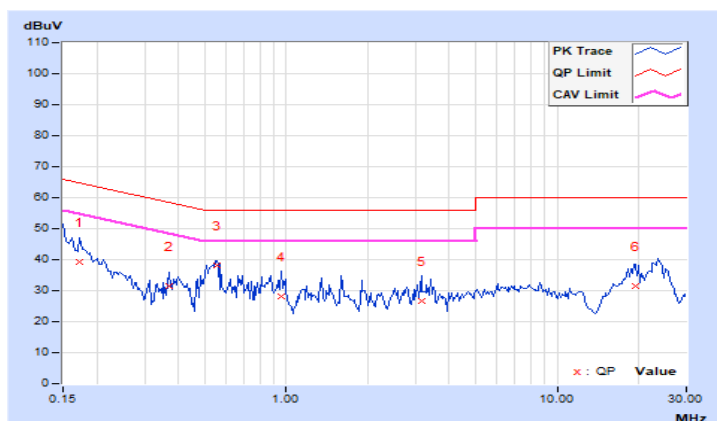
Mode B

RF Mode	TX 802.11ax (HE40)	Channel	CH 54 : 5270 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, 67% RH
Tested By	Sampson Chen		

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	0.17344	10.04	29.38	16.06	39.42	26.10	64.79	54.79	-25.37	-28.69
2	0.36875	10.06	21.40	15.83	31.46	25.89	58.53	48.53	-27.07	-22.64
3	0.55234	10.07	28.01	26.69	38.08	36.76	56.00	46.00	-17.92	-9.24
4	0.95859	10.11	18.18	14.14	28.29	24.25	56.00	46.00	-27.71	-21.75
5	3.14844	10.25	16.51	8.74	26.76	18.99	56.00	46.00	-29.24	-27.01
6	19.55469	11.29	20.28	12.84	31.57	24.13	60.00	50.00	-28.43	-25.87

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

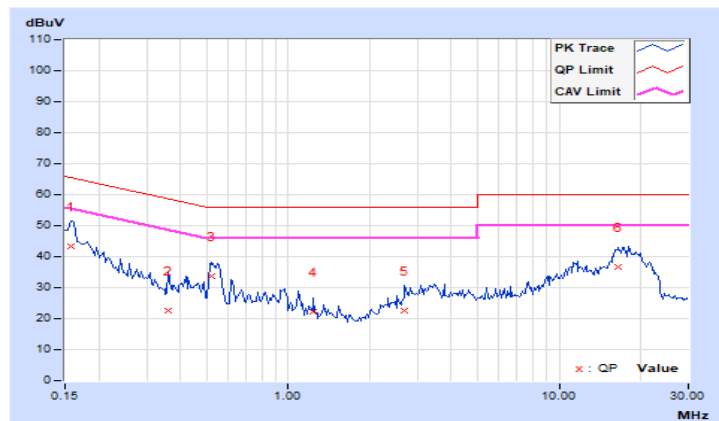


RF Mode	TX 802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 67% RH
Tested By	Sampson Chen		

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	0.15781	10.04	33.41	17.72	43.45	27.76	65.58	55.58	-22.13	-27.82
2	0.36094	10.06	12.35	0.87	22.41	10.93	58.71	48.71	-36.30	-37.78
3	0.52109	10.07	23.75	14.03	33.82	24.10	56.00	46.00	-22.18	-21.90
4	1.23828	10.12	12.02	-1.26	22.14	8.86	56.00	46.00	-33.86	-37.14
5	2.69922	10.21	12.51	2.46	22.72	12.67	56.00	46.00	-33.28	-33.33
6	16.61328	10.95	25.81	19.93	36.76	30.88	60.00	50.00	-23.24	-19.12

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



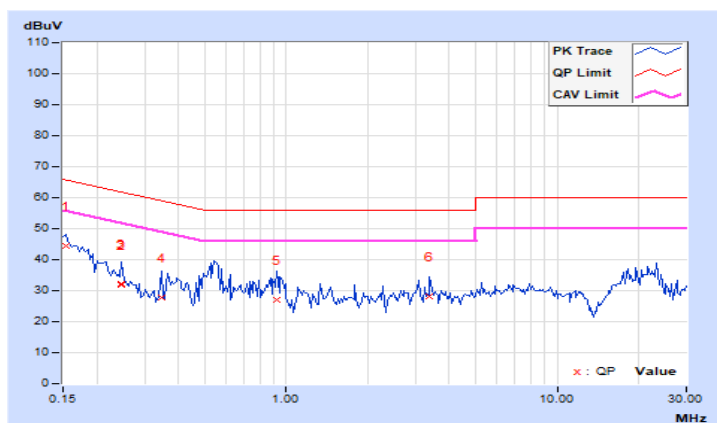
Mode C

RF Mode	TX 802.11ax (HE40)	Channel	CH 102 : 5510 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, 67% RH
Tested By	Sampson Chen		

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	10.04	34.28	21.85	44.32	31.89	65.79	55.79	-21.47	-23.90
2	0.24766	10.05	21.68	13.04	31.73	23.09	61.84	51.84	-30.11	-28.75
3	0.24766	10.05	22.29	12.76	32.34	22.81	61.84	51.84	-29.50	-29.03
4	0.34531	10.06	17.80	10.65	27.86	20.71	59.07	49.07	-31.21	-28.36
5	0.92734	10.10	17.07	13.94	27.17	24.04	56.00	46.00	-28.83	-21.96
6	3.37500	10.27	17.82	8.40	28.09	18.67	56.00	46.00	-27.91	-27.33

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

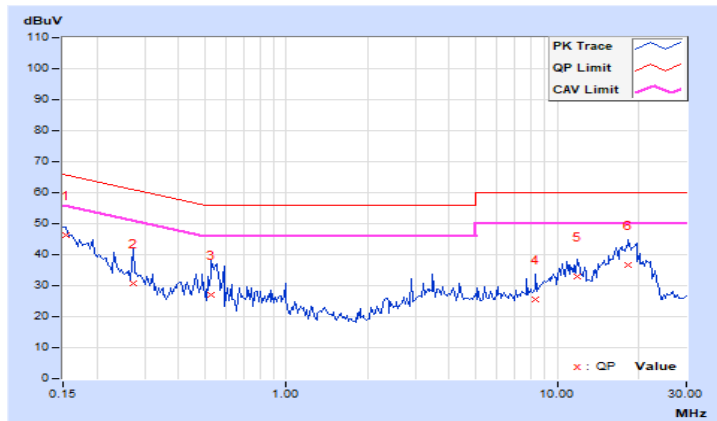


RF Mode	TX 802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 67% RH
Tested By	Sampson Chen		

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	10.04	36.44	20.48	46.48	30.52	65.79	55.79	-19.31	-25.27
2	0.27109	10.05	20.55	11.31	30.60	21.36	61.08	51.08	-30.48	-29.72
3	0.52891	10.07	16.86	7.30	26.93	17.37	56.00	46.00	-29.07	-28.63
4	8.35938	10.55	14.84	10.25	25.39	20.80	60.00	50.00	-34.61	-29.20
5	11.93750	10.74	22.07	15.43	32.81	26.17	60.00	50.00	-27.19	-23.83
6	18.39063	11.03	25.61	19.25	36.64	30.28	60.00	50.00	-23.36	-19.72

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

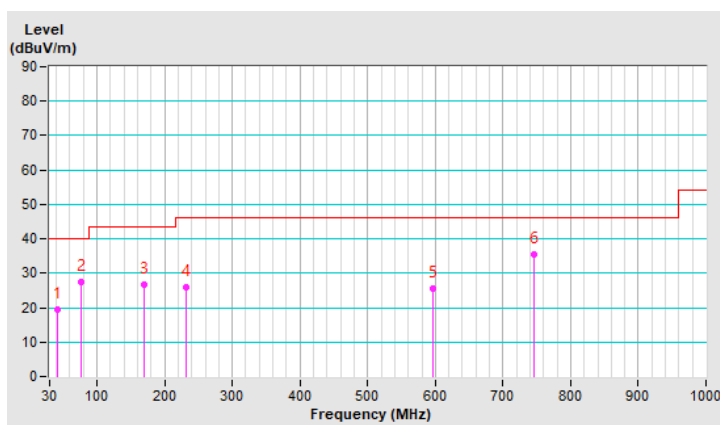
RF Mode	TX 802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 73% RH
Tested By	Sampson Chen		

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	41.87	19.3 QP	40.0	-20.7	1.00 H	216	32.4	-13.1
2	75.84	27.6 QP	40.0	-12.4	3.00 H	254	44.0	-16.4
3	169.10	26.7 QP	43.5	-16.8	2.00 H	72	39.9	-13.2
4	231.98	25.8 QP	46.0	-20.2	1.50 H	225	41.0	-15.2
5	596.30	25.6 QP	46.0	-20.4	1.50 H	91	30.9	-5.3
6	745.28	35.3 QP	46.0	-10.7	1.00 H	106	38.2	-2.9

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.

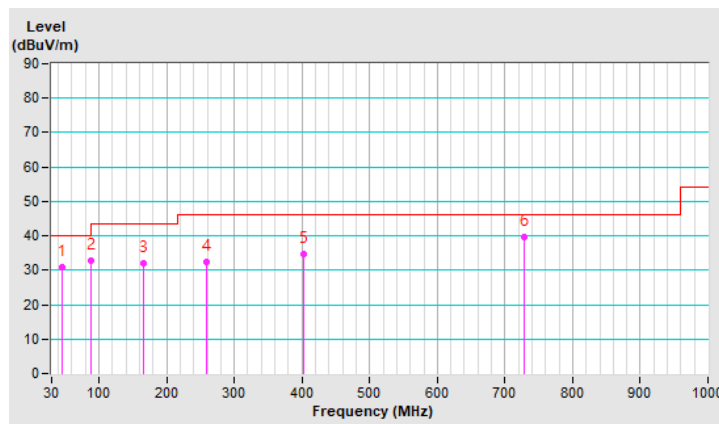


RF Mode	TX 802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 73% RH
Tested By	Sampson Chen		

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	44.80	30.8 QP	40.0	-9.2	1.00 V	27	43.6	-12.8
2	87.40	32.8 QP	40.0	-7.2	1.00 V	243	51.4	-18.6
3	164.84	31.9 QP	43.5	-11.6	1.50 V	202	44.8	-12.9
4	259.60	32.3 QP	46.0	-13.7	1.50 V	214	46.1	-13.8
5	401.81	34.8 QP	46.0	-11.2	1.50 V	285	44.6	-9.8
6	728.90	39.8 QP	46.0	-6.2	1.00 V	204	43.2	-3.4

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 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

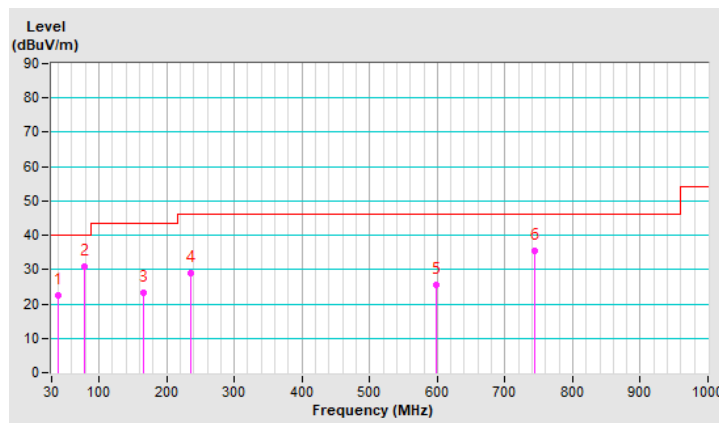
RF Mode	TX 802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 73% RH
Tested By	Sampson Chen		

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	39.87	22.3 QP	40.0	-17.7	1.00 H	231	35.5	-13.2
2	77.54	30.8 QP	40.0	-9.2	3.00 H	274	47.7	-16.9
3	165.31	23.4 QP	43.5	-20.1	2.00 H	75	36.3	-12.9
4	235.61	28.9 QP	46.0	-17.1	1.50 H	230	43.6	-14.7
5	598.41	25.4 QP	46.0	-20.6	1.50 H	97	30.6	-5.2
6	743.83	35.4 QP	46.0	-10.6	1.00 H	108	38.4	-3.0

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.

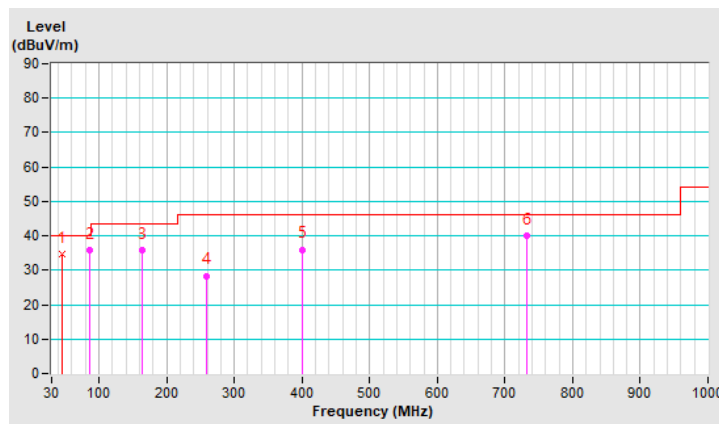


RF Mode	TX 802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 73% RH
Tested By	Sampson Chen		

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	46.17	34.8 QP	40.0	-5.2	1.00 V	19	47.5	-12.7
2	85.41	35.9 QP	40.0	-4.1	1.00 V	254	54.3	-18.4
3	164.21	35.8 QP	43.5	-7.7	1.50 V	205	48.8	-13.0
4	259.54	28.4 QP	46.0	-17.6	1.50 V	196	42.2	-13.8
5	401.18	36.0 QP	46.0	-10.0	1.50 V	304	45.8	-9.8
6	732.40	40.1 QP	46.0	-5.9	1.00 V	287	43.4	-3.3

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 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

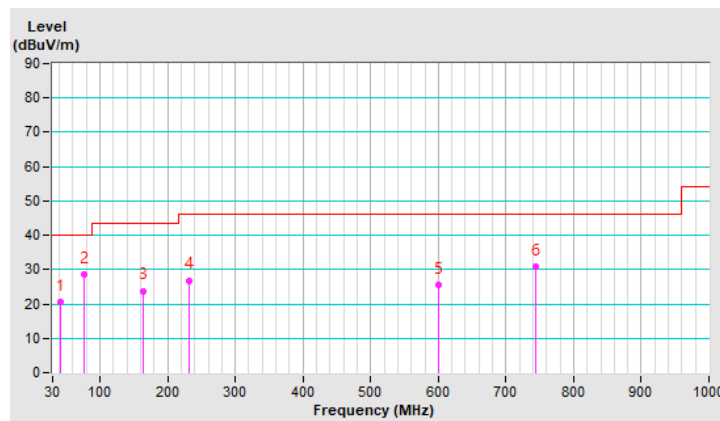
RF Mode	TX 802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 73% RH
Tested By	Sampson Chen		

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	41.98	20.6 QP	40.0	-19.4	1.00 H	226	33.7	-13.1
2	75.61	28.5 QP	40.0	-11.5	3.00 H	267	44.8	-16.3
3	164.39	23.8 QP	43.5	-19.7	2.00 H	70	36.8	-13.0
4	231.84	26.9 QP	46.0	-19.1	1.50 H	228	42.1	-15.2
5	599.41	25.5 QP	46.0	-20.5	1.50 H	94	30.7	-5.2
6	743.54	30.8 QP	46.0	-15.2	1.00 H	105	33.8	-3.0

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.

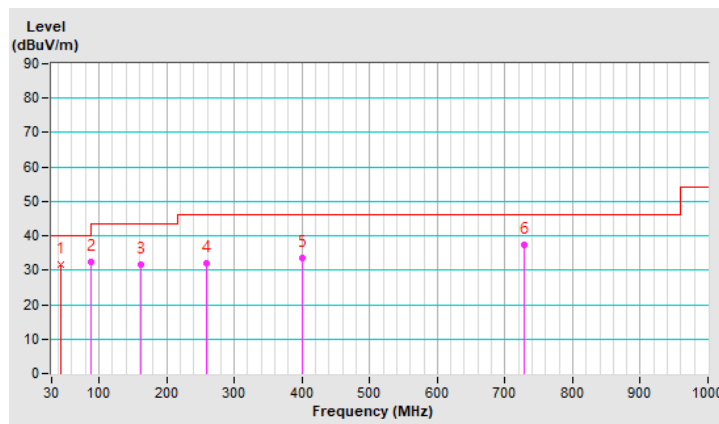


RF Mode	TX 802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 73% RH
Tested By	Sampson Chen		

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	44.17	31.8 QP	40.0	-8.2	1.00 V	21	44.7	-12.9
2	87.40	32.3 QP	40.0	-7.7	1.00 V	249	50.9	-18.6
3	162.54	31.8 QP	43.5	-11.7	1.50 V	202	44.6	-12.8
4	259.45	32.0 QP	46.0	-14.0	1.50 V	192	45.8	-13.8
5	401.23	33.5 QP	46.0	-12.5	1.50 V	299	43.3	-9.8
6	728.40	37.4 QP	46.0	-8.6	1.00 V	235	40.8	-3.4

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 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

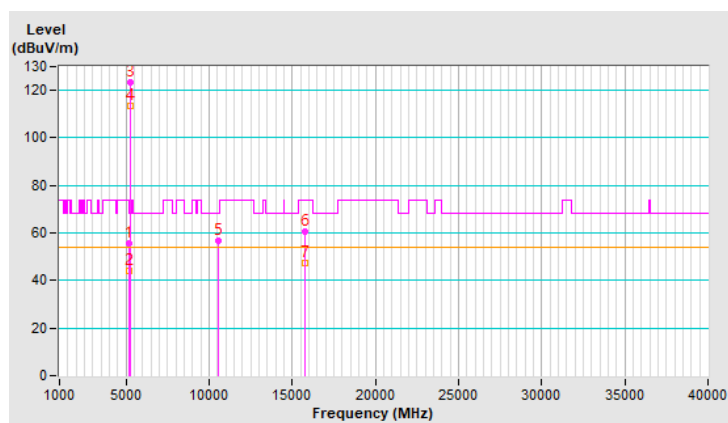
Mode A

RF Mode	TX 802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	55.8 PK	74.0	-18.2	1.73 H	280	53.4	2.4
2	5150.00	44.1 AV	54.0	-9.9	1.73 H	280	41.7	2.4
3	*5260.00	123.4 PK			1.73 H	280	121.6	1.8
4	*5260.00	113.2 AV			1.73 H	280	111.4	1.8
5	#10520.00	56.6 PK	68.2	-11.6	1.50 H	196	44.6	12.0
6	15780.00	60.4 PK	74.0	-13.6	1.67 H	141	48.9	11.5
7	15780.00	47.5 AV	54.0	-6.5	1.67 H	141	36.0	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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

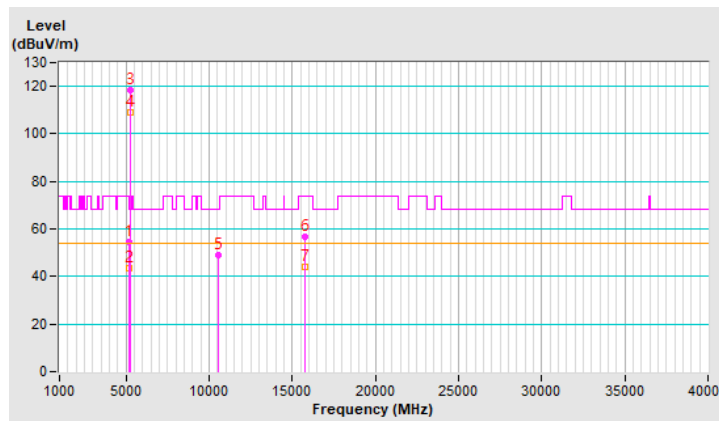


RF Mode	TX 802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	54.6 PK	74.0	-19.4	1.52 V	344	52.2	2.4
2	5150.00	43.7 AV	54.0	-10.3	1.52 V	344	41.3	2.4
3	*5260.00	118.5 PK			1.52 V	344	116.7	1.8
4	*5260.00	109.2 AV			1.52 V	344	107.4	1.8
5	#10520.00	49.0 PK	68.2	-19.2	1.52 V	194	37.0	12.0
6	15780.00	56.6 PK	74.0	-17.4	1.46 V	176	45.1	11.5
7	15780.00	44.3 AV	54.0	-9.7	1.46 V	176	32.8	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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



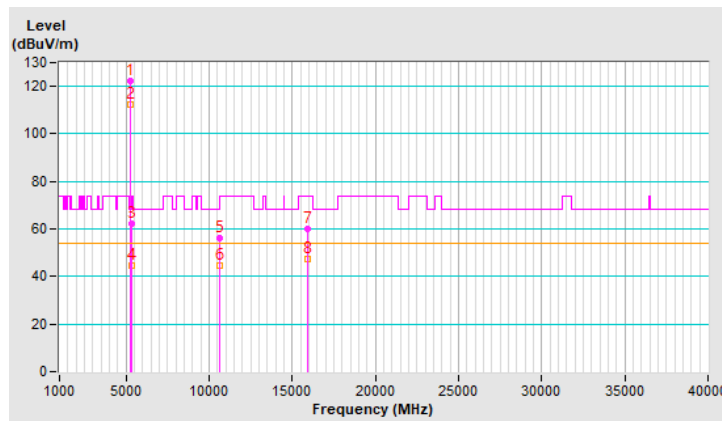
RF Mode	TX 802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	122.3 PK			1.59 H	282	120.6	1.7
2	*5300.00	112.5 AV			1.59 H	282	110.8	1.7
3	5350.00	62.1 PK	74.0	-11.9	1.59 H	282	60.1	2.0
4	5350.00	44.8 AV	54.0	-9.2	1.59 H	282	42.8	2.0
5	10600.00	56.3 PK	74.0	-17.7	1.53 H	200	44.6	11.7
6	10600.00	44.7 AV	54.0	-9.3	1.53 H	200	33.0	11.7
7	15900.00	60.0 PK	74.0	-14.0	1.68 H	142	48.9	11.1
8	15900.00	47.2 AV	54.0	-6.8	1.68 H	142	36.1	11.1

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, the limit was restricted at the RF Output Power.

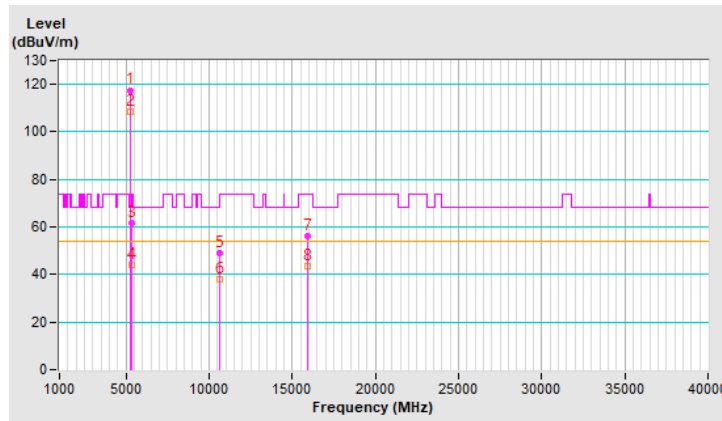


RF Mode	TX 802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	117.6 PK			1.61 V	349	115.9	1.7
2	*5300.00	108.6 AV			1.61 V	349	106.9	1.7
3	5350.00	61.6 PK	74.0	-12.4	1.61 V	349	59.6	2.0
4	5350.00	43.8 AV	54.0	-10.2	1.61 V	349	41.8	2.0
5	10600.00	49.1 PK	74.0	-24.9	1.44 V	217	37.4	11.7
6	10600.00	37.9 AV	54.0	-16.1	1.44 V	217	26.2	11.7
7	15900.00	56.0 PK	74.0	-18.0	1.41 V	186	44.9	11.1
8	15900.00	43.7 AV	54.0	-10.3	1.41 V	186	32.6	11.1

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, the limit was restricted at the RF Output Power.



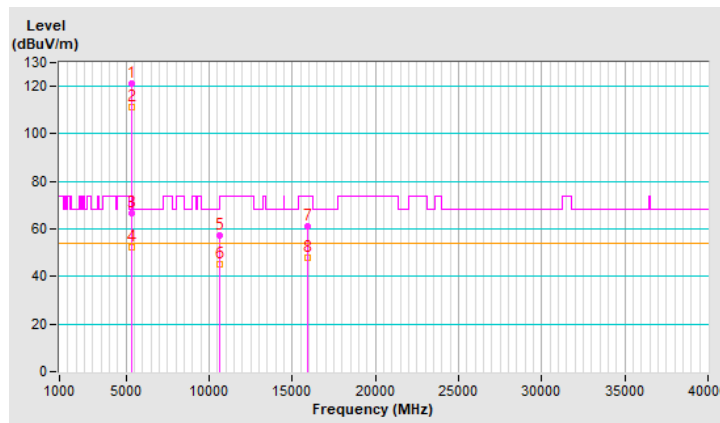


RF Mode	TX 802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	121.2 PK			1.43 H	270	119.5	1.7
2	*5320.00	111.4 AV			1.43 H	270	109.7	1.7
3	5350.00	66.5 PK	74.0	-7.5	1.43 H	270	64.5	2.0
4	5350.00	52.4 AV	54.0	-1.6	1.43 H	270	50.4	2.0
5	10640.00	57.1 PK	74.0	-16.9	1.56 H	182	45.5	11.6
6	10640.00	45.4 AV	54.0	-8.6	1.56 H	182	33.8	11.6
7	15960.00	61.1 PK	74.0	-12.9	1.64 H	142	49.7	11.4
8	15960.00	48.1 AV	54.0	-5.9	1.64 H	142	36.7	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, the limit was restricted at the RF Output Power.



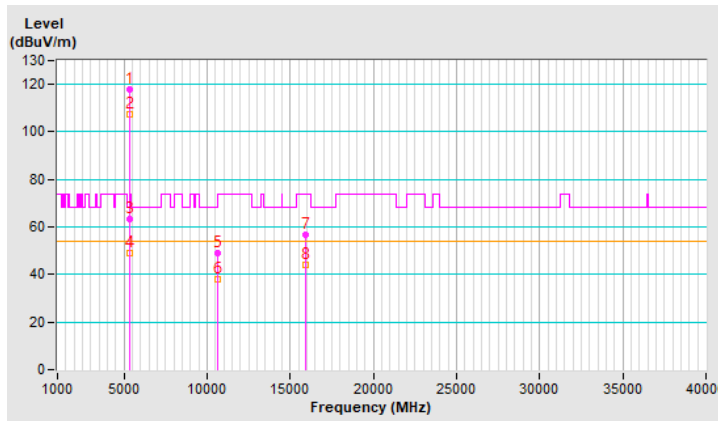


RF Mode	TX 802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	118.1 PK			2.45 V	204	116.4	1.7
2	*5320.00	107.5 AV			2.45 V	204	105.8	1.7
3	5350.00	63.3 PK	74.0	-10.7	2.45 V	204	61.3	2.0
4	5350.00	49.2 AV	54.0	-4.8	2.45 V	204	47.2	2.0
5	10640.00	49.1 PK	74.0	-24.9	1.45 V	187	37.5	11.6
6	10640.00	37.8 AV	54.0	-16.2	1.45 V	187	26.2	11.6
7	15960.00	56.6 PK	74.0	-17.4	1.42 V	199	45.2	11.4
8	15960.00	44.2 AV	54.0	-9.8	1.42 V	199	32.8	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, the limit was restricted at the RF Output Power.

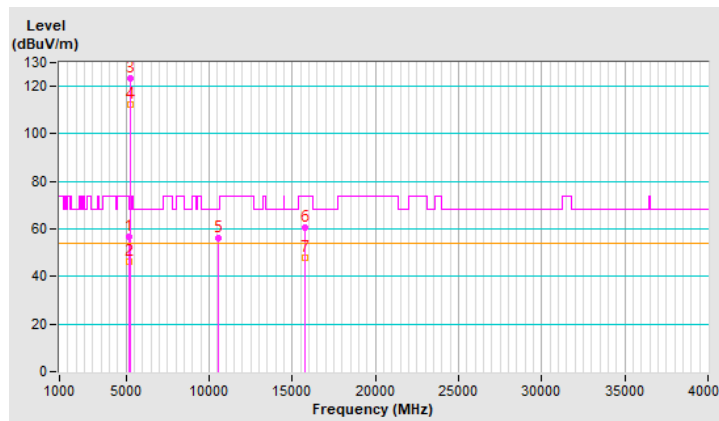


RF Mode	TX 802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	56.5 PK	74.0	-17.5	1.51 H	93	54.1	2.4
2	5150.00	46.2 AV	54.0	-7.8	1.51 H	93	43.8	2.4
3	*5260.00	123.4 PK			1.51 H	93	121.6	1.8
4	*5260.00	112.2 AV			1.51 H	93	110.4	1.8
5	#10520.00	56.2 PK	68.2	-12.0	1.59 H	212	44.2	12.0
6	15780.00	60.6 PK	74.0	-13.4	1.68 H	127	49.1	11.5
7	15780.00	47.9 AV	54.0	-6.1	1.68 H	127	36.4	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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

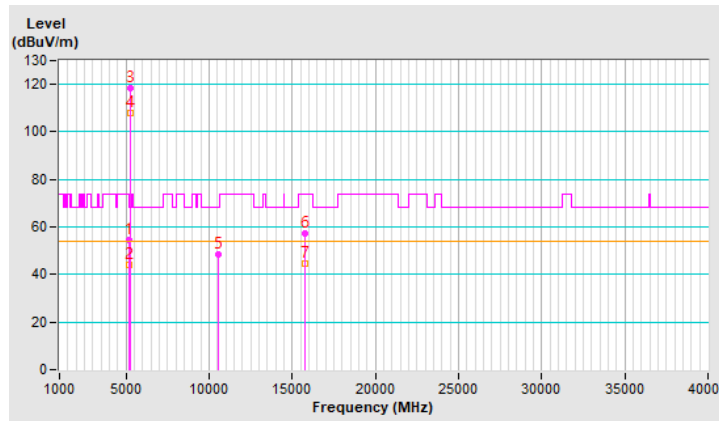


RF Mode	TX 802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	54.3 PK	74.0	-19.7	1.85 V	155	51.9	2.4
2	5150.00	44.2 AV	54.0	-9.8	1.85 V	155	41.8	2.4
3	*5260.00	118.5 PK			1.85 V	155	116.7	1.8
4	*5260.00	107.8 AV			1.85 V	155	106.0	1.8
5	#10520.00	48.7 PK	68.2	-19.5	1.46 V	202	36.7	12.0
6	15780.00	57.3 PK	74.0	-16.7	1.44 V	184	45.8	11.5
7	15780.00	44.6 AV	54.0	-9.4	1.44 V	184	33.1	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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



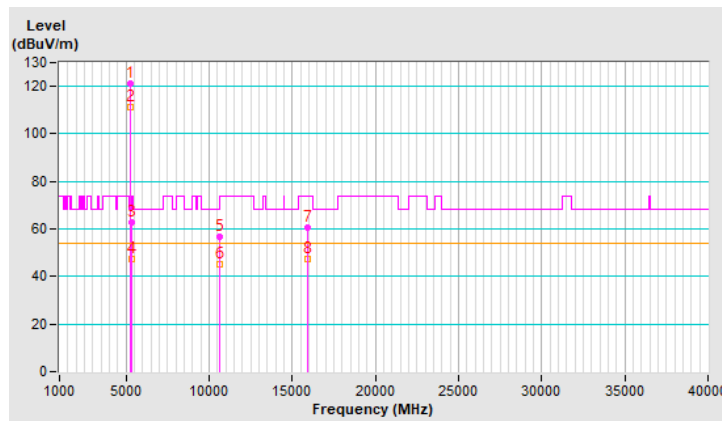
RF Mode	TX 802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	121.2 PK			1.47 H	93	119.5	1.7
2	*5300.00	111.0 AV			1.47 H	93	109.3	1.7
3	5350.00	62.8 PK	74.0	-11.2	1.47 H	93	60.8	2.0
4	5350.00	47.2 AV	54.0	-6.8	1.47 H	93	45.2	2.0
5	10600.00	56.7 PK	74.0	-17.3	1.51 H	204	45.0	11.7
6	10600.00	45.0 AV	54.0	-9.0	1.51 H	204	33.3	11.7
7	15900.00	60.4 PK	74.0	-13.6	1.69 H	150	49.3	11.1
8	15900.00	47.4 AV	54.0	-6.6	1.69 H	150	36.3	11.1

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, the limit was restricted at the RF Output Power.

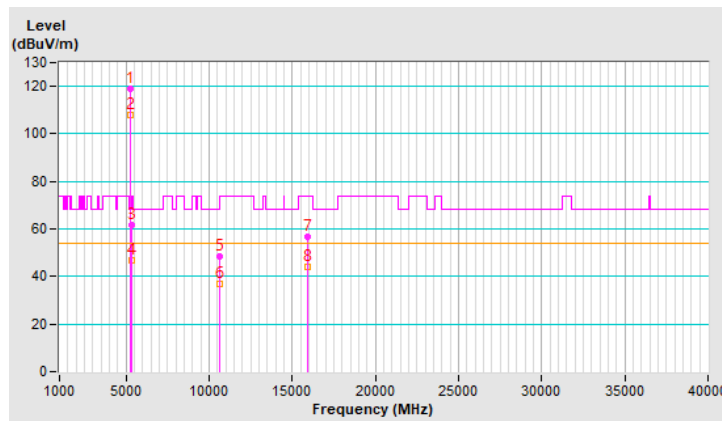


RF Mode	TX 802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	118.9 PK			1.78 V	137	117.2	1.7
2	*5300.00	108.1 AV			1.78 V	137	106.4	1.7
3	5350.00	61.9 PK	74.0	-12.1	1.78 V	137	59.9	2.0
4	5350.00	46.8 AV	54.0	-7.2	1.78 V	137	44.8	2.0
5	10600.00	48.3 PK	74.0	-25.7	1.53 V	214	36.6	11.7
6	10600.00	37.1 AV	54.0	-16.9	1.53 V	214	25.4	11.7
7	15900.00	56.7 PK	74.0	-17.3	1.46 V	179	45.6	11.1
8	15900.00	44.0 AV	54.0	-10.0	1.46 V	179	32.9	11.1

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, the limit was restricted at the RF Output Power.



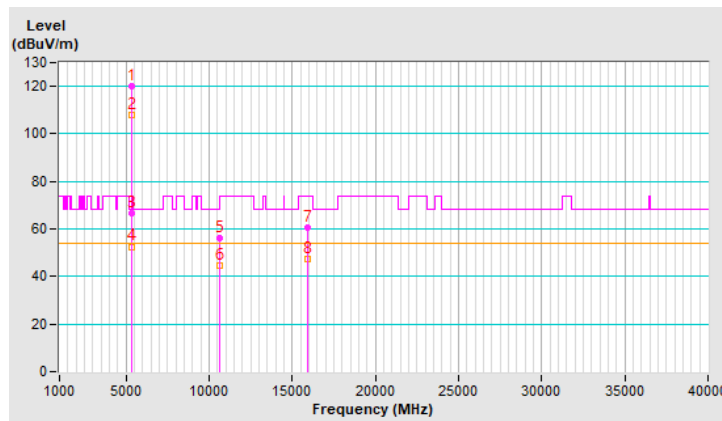
RF Mode	TX 802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	120.2 PK			1.48 H	96	118.5	1.7
2	*5320.00	107.9 AV			1.48 H	96	106.2	1.7
3	5350.00	66.4 PK	74.0	-7.6	1.48 H	96	64.4	2.0
4	5350.00	52.6 AV	54.0	-1.4	1.48 H	96	50.6	2.0
5	10640.00	56.1 PK	74.0	-17.9	1.54 H	209	44.5	11.6
6	10640.00	44.7 AV	54.0	-9.3	1.54 H	209	33.1	11.6
7	15960.00	60.4 PK	74.0	-13.6	1.69 H	152	49.0	11.4
8	15960.00	47.5 AV	54.0	-6.5	1.69 H	152	36.1	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, the limit was restricted at the RF Output Power.

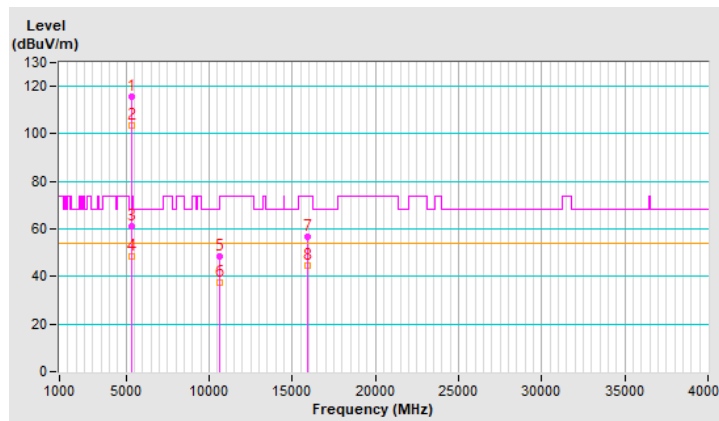


RF Mode	TX 802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	115.6 PK			1.54 V	356	113.9	1.7
2	*5320.00	103.3 AV			1.54 V	356	101.6	1.7
3	5351.81	61.2 PK	74.0	-12.8	1.54 V	356	59.3	1.9
4	5351.81	48.2 AV	54.0	-5.8	1.54 V	356	46.3	1.9
5	10640.00	48.4 PK	74.0	-25.6	1.46 V	195	36.8	11.6
6	10640.00	37.2 AV	54.0	-16.8	1.46 V	195	25.6	11.6
7	15960.00	56.8 PK	74.0	-17.2	1.46 V	188	45.4	11.4
8	15960.00	44.6 AV	54.0	-9.4	1.46 V	188	33.2	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, the limit was restricted at the RF Output Power.

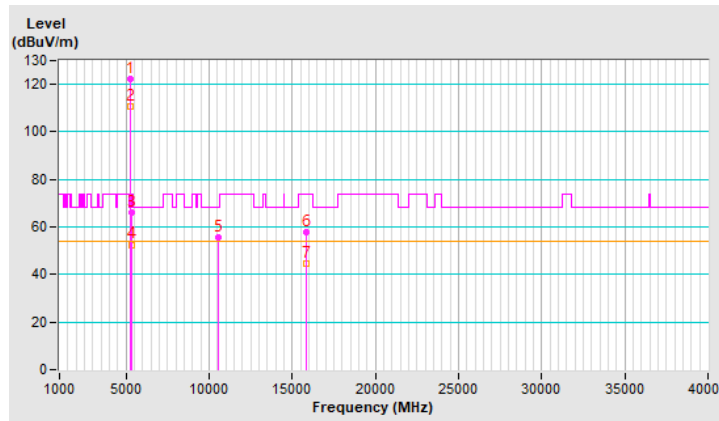


RF Mode	TX 802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	*5270.00	122.4 PK			1.48 H	82	120.6	1.8
2	*5270.00	110.5 AV			1.48 H	82	108.7	1.8
3	5350.00	66.2 PK	74.0	-7.8	1.48 H	82	64.2	2.0
4	5350.00	52.6 AV	54.0	-1.4	1.48 H	82	50.6	2.0
5	#10540.00	55.8 PK	68.2	-12.4	1.54 H	206	43.9	11.9
6	15810.00	58.0 PK	74.0	-16.0	1.68 H	134	46.6	11.4
7	15810.00	44.5 AV	54.0	-9.5	1.68 H	134	33.1	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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

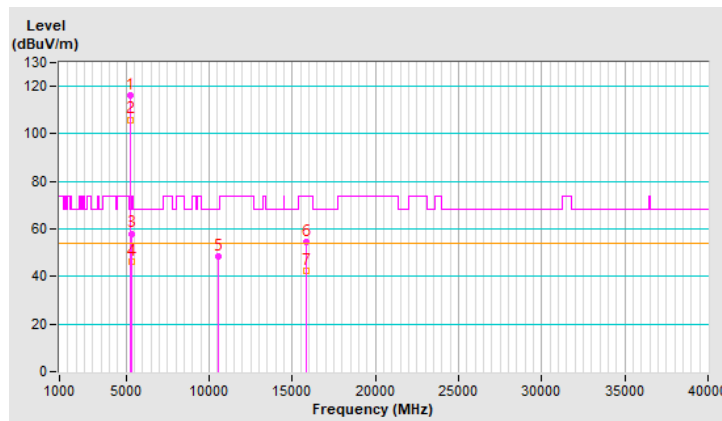


RF Mode	TX 802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	*5270.00	116.3 PK			1.48 V	211	114.5	1.8
2	*5270.00	106.0 AV			1.48 V	211	104.2	1.8
3	5350.00	58.1 PK	74.0	-15.9	1.48 V	211	56.1	2.0
4	5350.00	46.2 AV	54.0	-7.8	1.48 V	211	44.2	2.0
5	#10540.00	48.5 PK	68.2	-19.7	1.46 V	205	36.6	11.9
6	15810.00	54.6 PK	74.0	-19.4	1.47 V	199	43.2	11.4
7	15810.00	42.4 AV	54.0	-11.6	1.47 V	199	31.0	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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



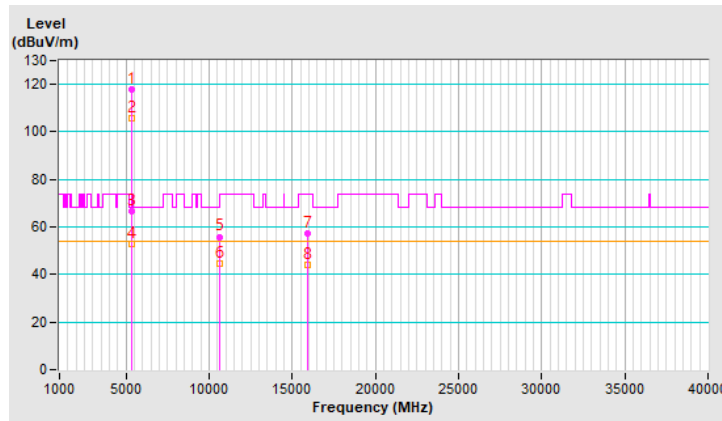
RF Mode	TX 802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	*5310.00	117.9 PK			1.34 H	77	116.2	1.7
2	*5310.00	105.6 AV			1.34 H	77	103.9	1.7
3	5350.00	66.8 PK	74.0	-7.2	1.34 H	77	64.8	2.0
4	5350.00	52.7 AV	54.0	-1.3	1.34 H	77	50.7	2.0
5	10620.00	55.9 PK	74.0	-18.1	1.51 H	190	44.3	11.6
6	10620.00	44.4 AV	54.0	-9.6	1.51 H	190	32.8	11.6
7	15930.00	57.4 PK	74.0	-16.6	1.56 H	147	46.1	11.3
8	15930.00	44.2 AV	54.0	-9.8	1.56 H	147	32.9	11.3

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, the limit was restricted at the RF Output Power.

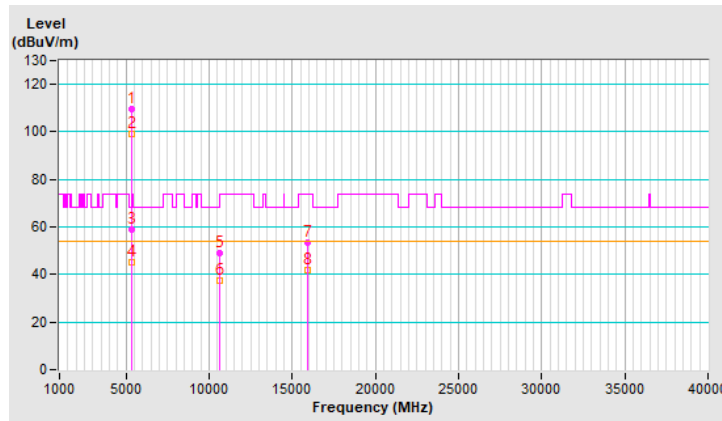


RF Mode	TX 802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	*5310.00	109.6 PK			1.47 V	198	107.9	1.7
2	*5310.00	99.2 AV			1.47 V	198	97.5	1.7
3	5353.44	59.1 PK	74.0	-14.9	1.47 V	198	57.2	1.9
4	5353.44	45.4 AV	54.0	-8.6	1.47 V	198	43.5	1.9
5	10620.00	49.0 PK	74.0	-25.0	1.47 V	205	37.4	11.6
6	10620.00	37.5 AV	54.0	-16.5	1.47 V	205	25.9	11.6
7	15930.00	53.6 PK	74.0	-20.4	1.43 V	203	42.3	11.3
8	15930.00	41.6 AV	54.0	-12.4	1.43 V	203	30.3	11.3

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, the limit was restricted at the RF Output Power.

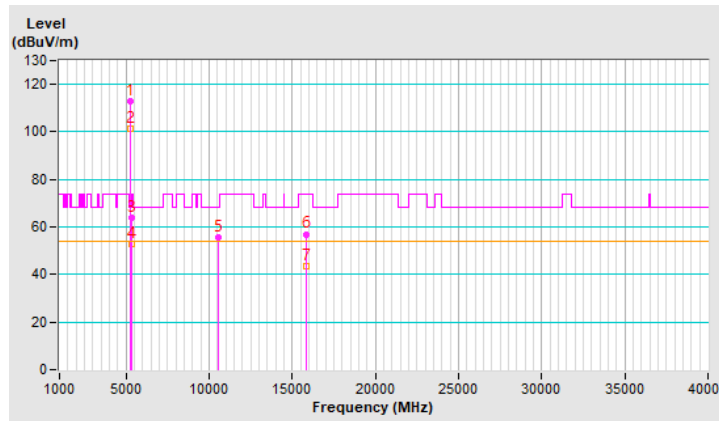


RF Mode	TX 802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	*5290.00	112.8 PK			1.42 H	77	111.1	1.7
2	*5290.00	101.4 AV			1.42 H	77	99.7	1.7
3	5350.87	64.0 PK	74.0	-10.0	1.42 H	77	62.1	1.9
4	5350.87	52.8 AV	54.0	-1.2	1.42 H	77	50.9	1.9
5	#10580.00	55.8 PK	68.2	-12.4	1.57 H	194	44.1	11.7
6	15870.00	57.0 PK	74.0	-17.0	1.62 H	132	45.9	11.1
7	15870.00	43.7 AV	54.0	-10.3	1.62 H	132	32.6	11.1

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



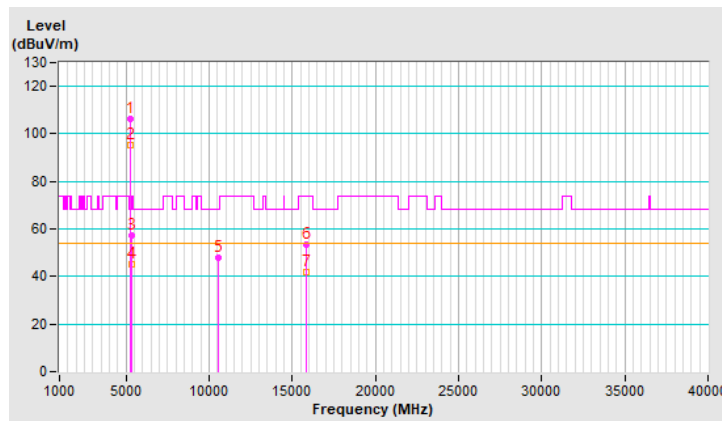
RF Mode	TX 802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m

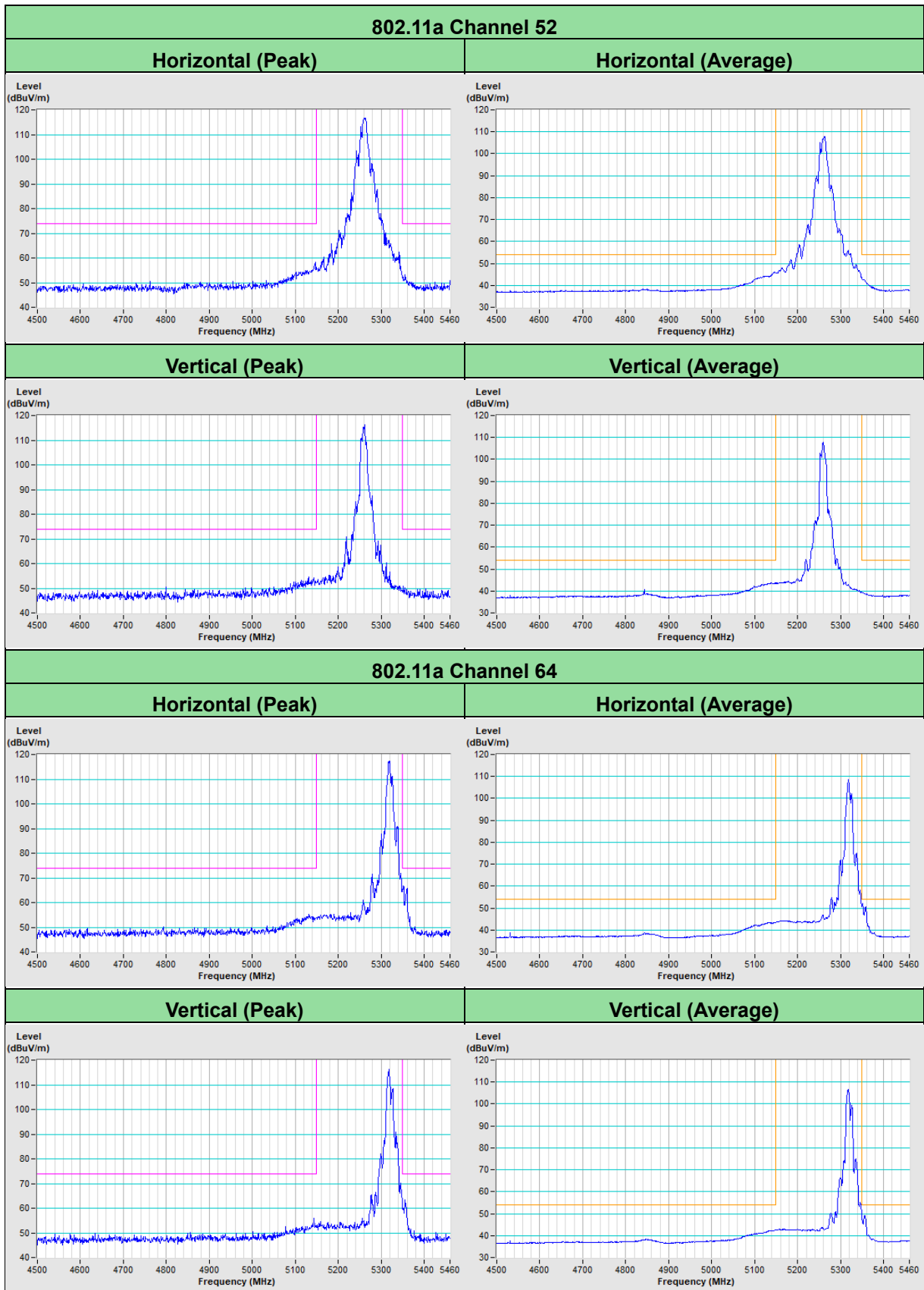
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	106.1 PK			1.52 V	357	104.4	1.7
2	*5290.00	95.3 AV			1.52 V	357	93.6	1.7
3	5354.21	57.1 PK	74.0	-16.9	1.52 V	357	55.2	1.9
4	5354.21	45.1 AV	54.0	-8.9	1.52 V	357	43.2	1.9
5	#10580.00	47.8 PK	68.2	-20.4	1.40 V	188	36.1	11.7
6	15870.00	53.4 PK	74.0	-20.6	1.48 V	182	42.3	11.1
7	15870.00	41.6 AV	54.0	-12.4	1.48 V	182	30.5	11.1

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

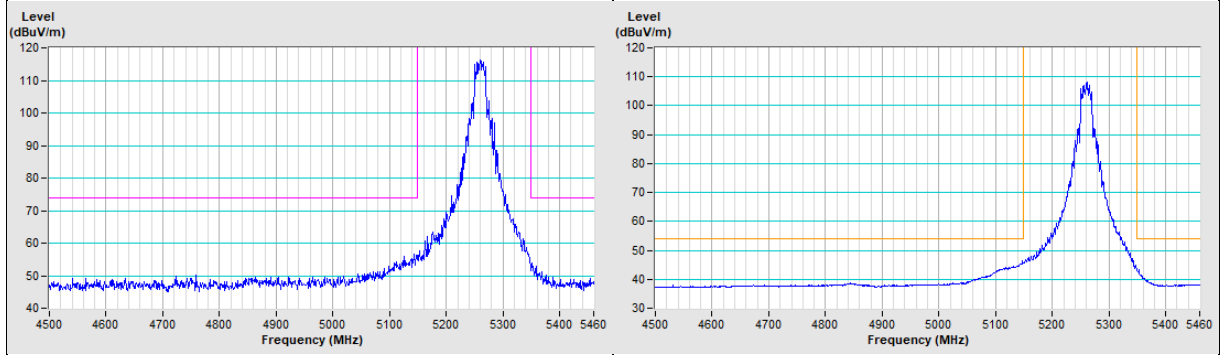


Mode A_Plot of Band Edge

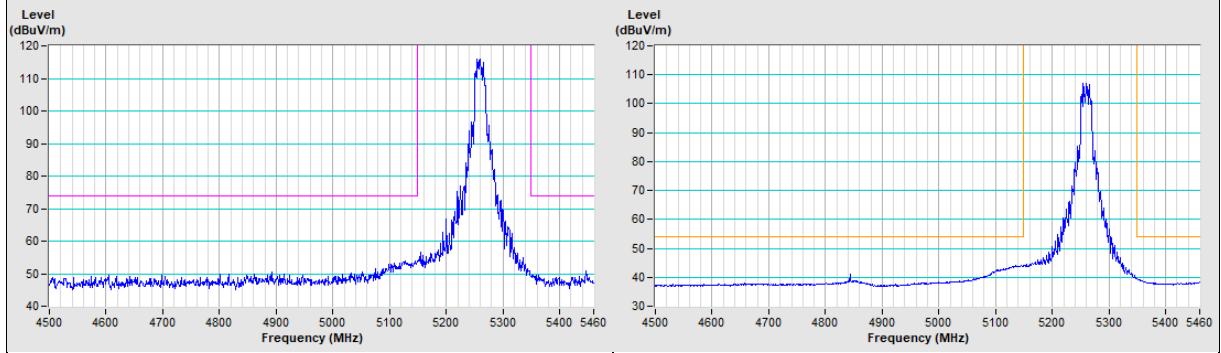


802.11ax (HE20) Channel 52

Horizontal (Peak)	Horizontal (Average)
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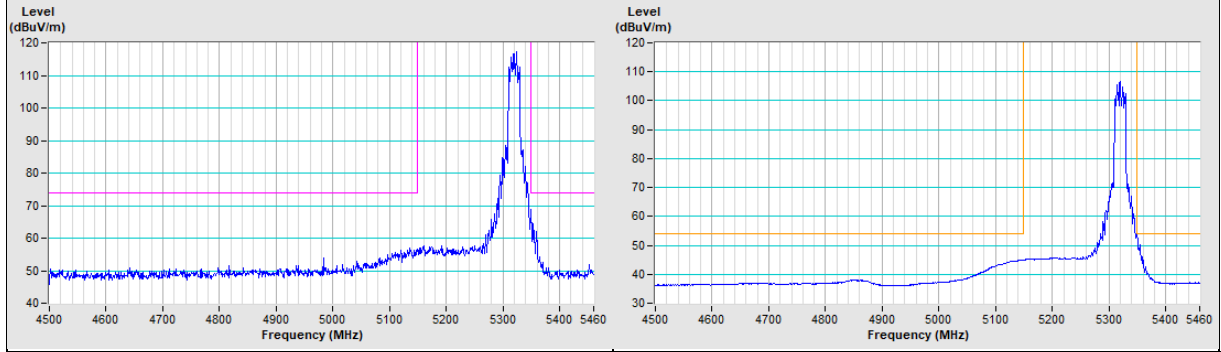


Vertical (Peak)	Vertical (Average)
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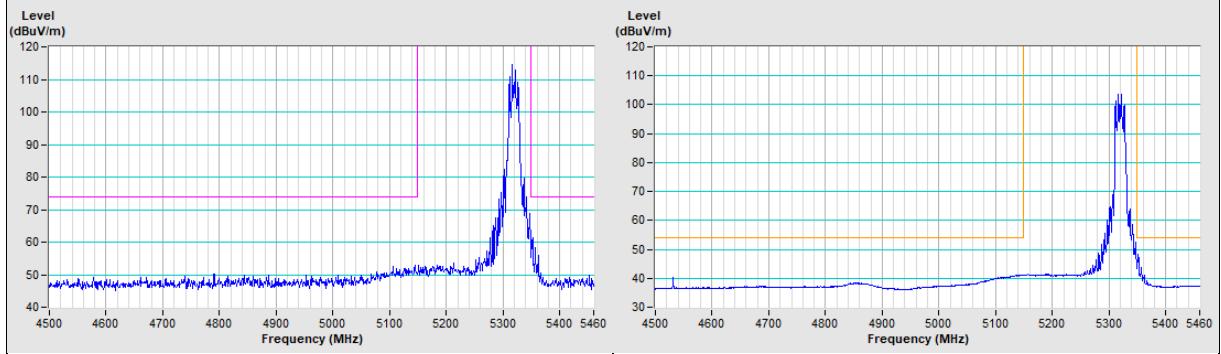


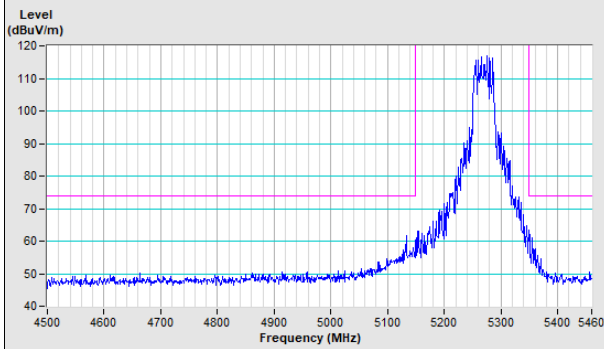
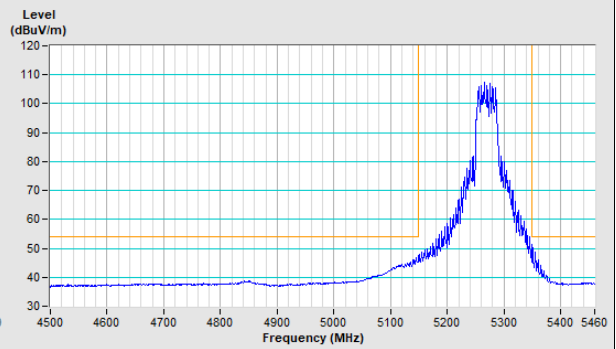
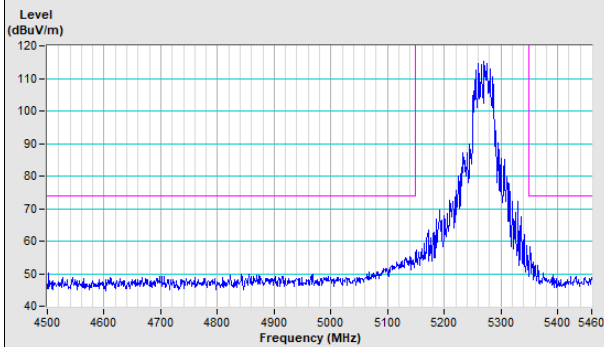
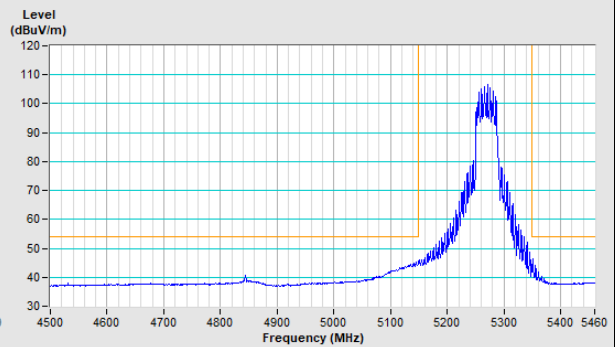
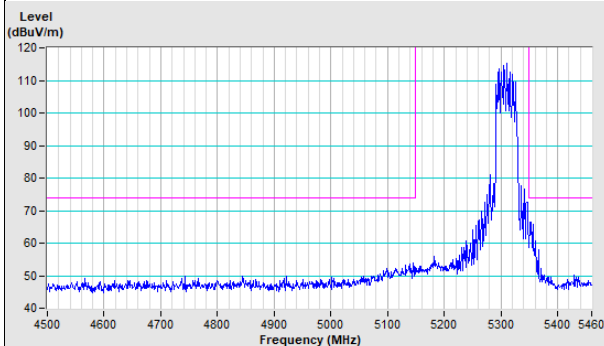
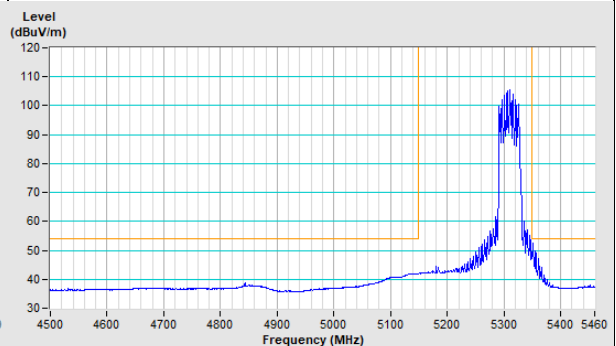
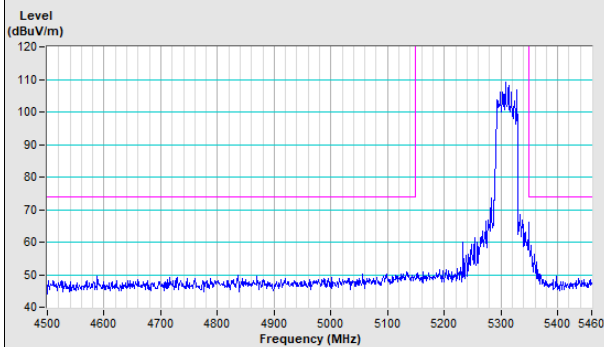
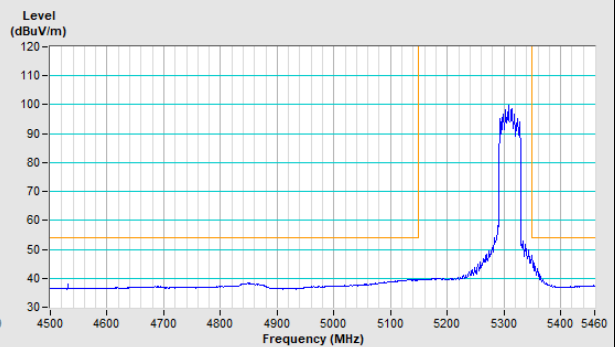
802.11ax (HE20) Channel 64

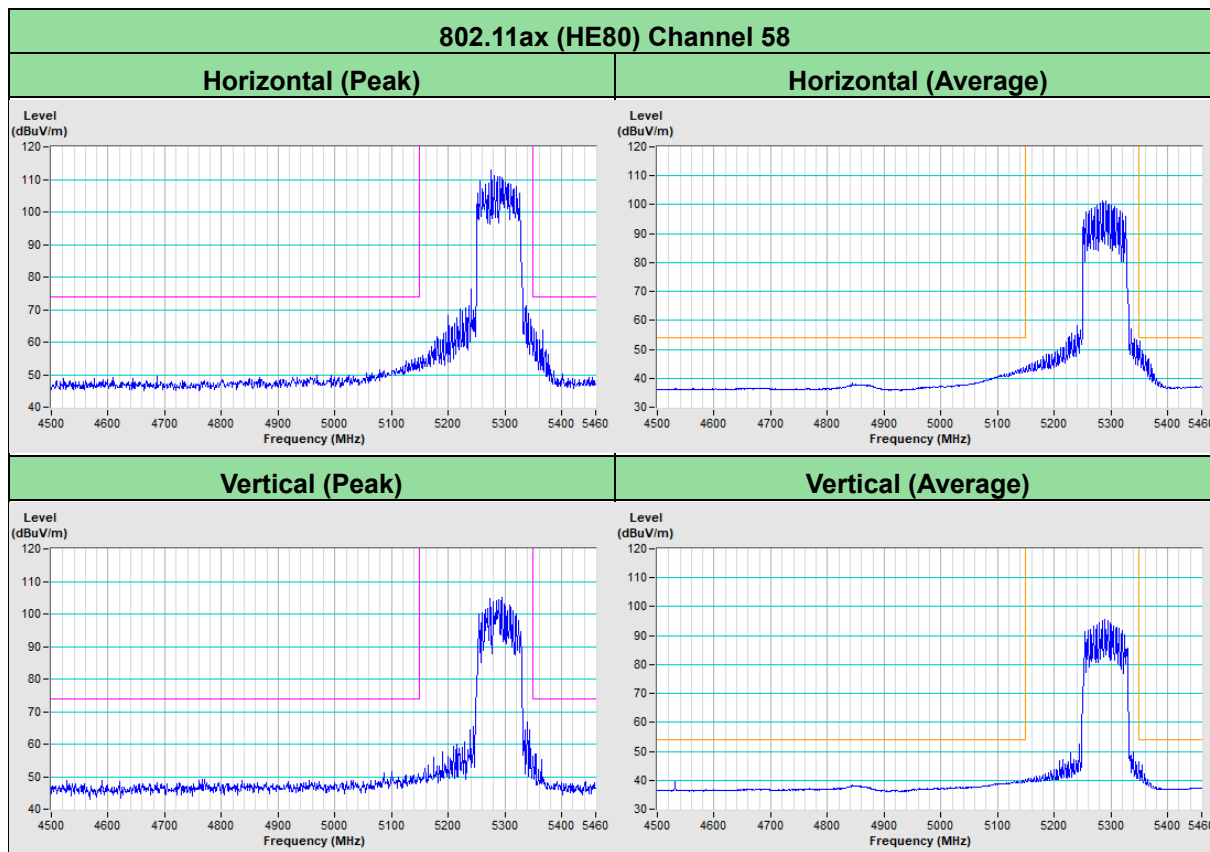
Horizontal (Peak)	Horizontal (Average)
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Vertical (Peak)	Vertical (Average)
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802.11ax (HE40) Channel 54**Horizontal (Peak)****Horizontal (Average)****Vertical (Peak)****Vertical (Average)****802.11ax (HE40) Channel 62****Horizontal (Peak)****Horizontal (Average)****Vertical (Peak)****Vertical (Average)**



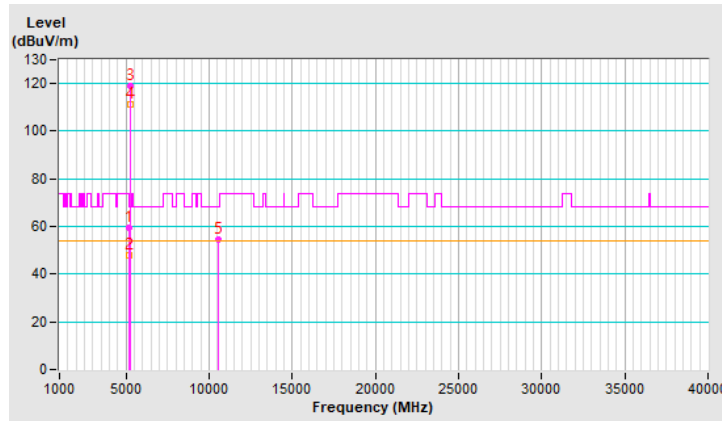
Mode B

RF Mode	TX 802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	59.6 PK	74.0	-14.4	1.38 H	247	57.2	2.4
2	5150.00	47.7 AV	54.0	-6.3	1.38 H	247	45.3	2.4
3	*5260.00	119.1 PK			1.38 H	247	117.3	1.8
4	*5260.00	111.2 AV			1.38 H	247	109.4	1.8
5	#10520.00	54.3 PK	68.2	-13.9	1.98 H	164	42.3	12.0

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

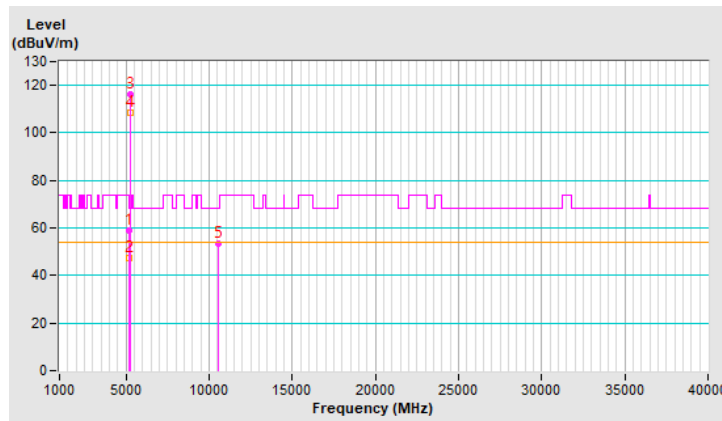


RF Mode	TX 802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	58.9 PK	74.0	-15.1	1.46 V	215	56.5	2.4
2	5150.00	47.1 AV	54.0	-6.9	1.46 V	215	44.7	2.4
3	*5260.00	116.2 PK			1.46 V	215	114.4	1.8
4	*5260.00	108.3 AV			1.46 V	215	106.5	1.8
5	#10520.00	53.4 PK	68.2	-14.8	1.33 V	181	41.4	12.0

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

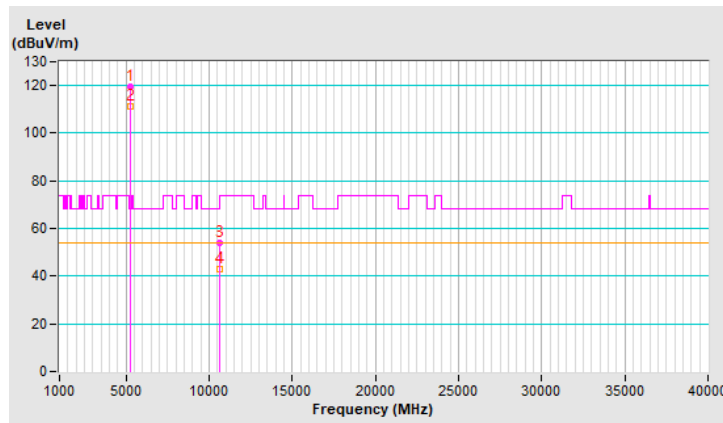


RF Mode	TX 802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	119.3 PK			3.13 H	245	117.6	1.7
2	*5300.00	111.3 AV			3.13 H	245	109.6	1.7
3	10600.00	54.2 PK	74.0	-19.8	1.96 H	170	42.5	11.7
4	10600.00	43.0 AV	54.0	-11.0	1.96 H	170	31.3	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, the limit was restricted at the RF Output Power.

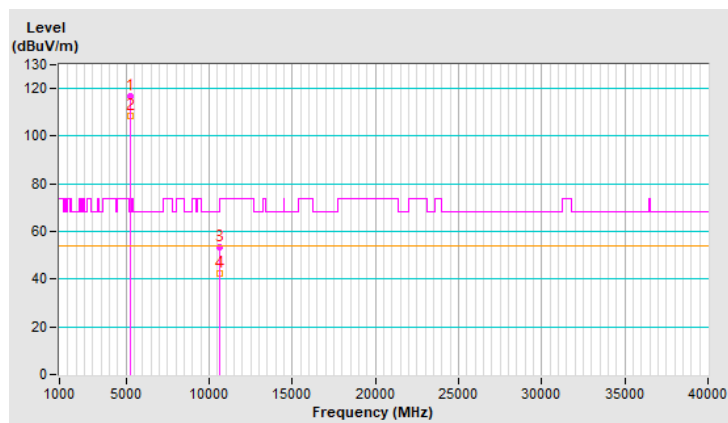


RF Mode	TX 802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	116.7 PK			1.45 V	215	115.0	1.7
2	*5300.00	108.4 AV			1.45 V	215	106.7	1.7
3	10600.00	53.2 PK	74.0	-20.8	1.29 V	179	41.5	11.7
4	10600.00	42.3 AV	54.0	-11.7	1.29 V	179	30.6	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, the limit was restricted at the RF Output Power.



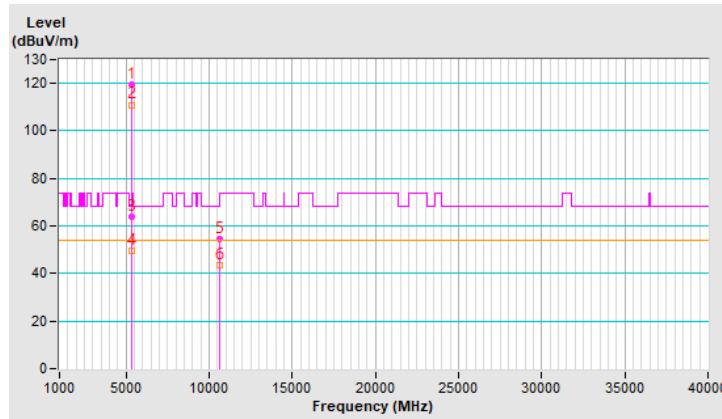
RF Mode	TX 802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	119.7 PK			1.95 H	263	118.0	1.7
2	*5320.00	111.0 AV			1.95 H	263	109.3	1.7
3	5350.00	63.9 PK	74.0	-10.1	1.95 H	263	61.9	2.0
4	5350.00	49.7 AV	54.0	-4.3	1.95 H	263	47.7	2.0
5	10640.00	54.6 PK	74.0	-19.4	1.89 H	167	43.0	11.6
6	10640.00	43.5 AV	54.0	-10.5	1.89 H	167	31.9	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, the limit was restricted at the RF Output Power.

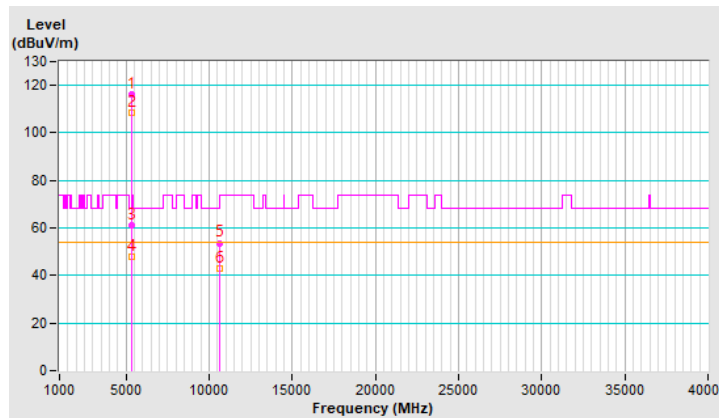


RF Mode	TX 802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	116.1 PK			1.51 V	205	114.4	1.7
2	*5320.00	108.4 AV			1.51 V	205	106.7	1.7
3	5350.00	61.1 PK	74.0	-12.9	1.51 V	205	59.1	2.0
4	5350.00	48.1 AV	54.0	-5.9	1.51 V	205	46.1	2.0
5	10640.00	53.7 PK	74.0	-20.3	1.27 V	177	42.1	11.6
6	10640.00	42.8 AV	54.0	-11.2	1.27 V	177	31.2	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, the limit was restricted at the RF Output Power.



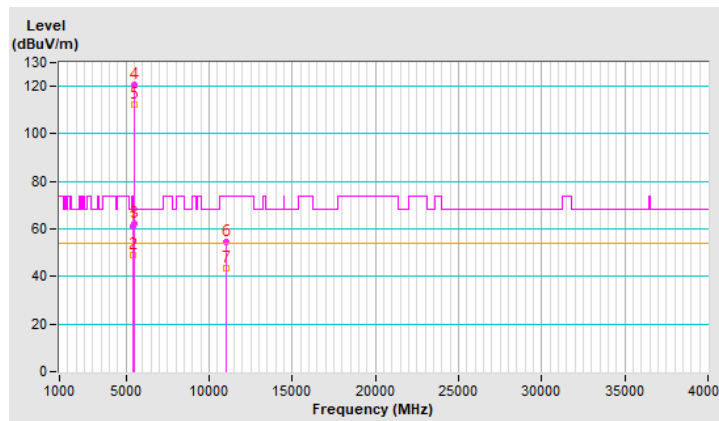
RF Mode	TX 802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	61.0 PK	74.0	-13.0	2.10 H	270	58.8	2.2
2	5460.00	49.2 AV	54.0	-4.8	2.10 H	270	47.0	2.2
3	#5470.00	62.3 PK	68.2	-5.9	2.10 H	270	60.1	2.2
4	*5500.00	120.5 PK			2.10 H	270	118.4	2.1
5	*5500.00	112.6 AV			2.10 H	270	110.5	2.1
6	11000.00	54.5 PK	74.0	-19.5	1.87 H	176	42.4	12.1
7	11000.00	43.7 AV	54.0	-10.3	1.87 H	176	31.6	12.1

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

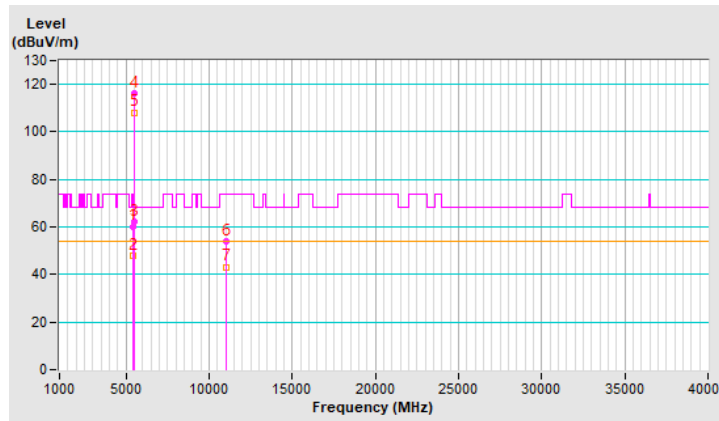


RF Mode	TX 802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	60.3 PK	74.0	-13.7	1.34 V	204	58.1	2.2
2	5460.00	47.9 AV	54.0	-6.1	1.34 V	204	45.7	2.2
3	#5470.00	62.0 PK	68.2	-6.2	1.34 V	204	59.8	2.2
4	*5500.00	116.3 PK			1.34 V	204	114.2	2.1
5	*5500.00	108.2 AV			1.34 V	204	106.1	2.1
6	11000.00	53.8 PK	74.0	-20.2	1.39 V	181	41.7	12.1
7	11000.00	43.2 AV	54.0	-10.8	1.39 V	181	31.1	12.1

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



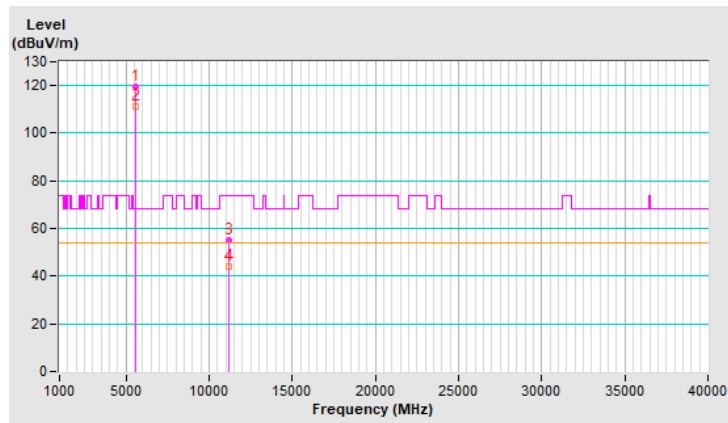
RF Mode	TX 802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	119.5 PK			2.12 H	242	117.3	2.2
2	*5580.00	111.2 AV			2.12 H	242	109.0	2.2
3	11160.00	55.0 PK	74.0	-19.0	1.82 H	179	43.1	11.9
4	11160.00	44.1 AV	54.0	-9.9	1.82 H	179	32.2	11.9

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, the limit was restricted at the RF Output Power.

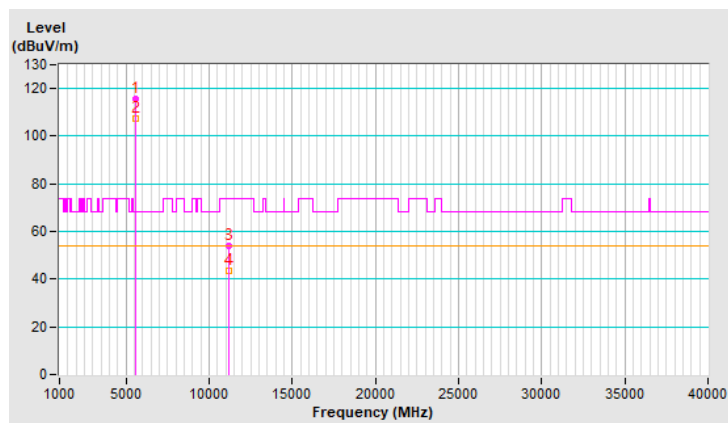


RF Mode	TX 802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	115.6 PK			1.32 V	207	113.4	2.2
2	*5580.00	107.4 AV			1.32 V	207	105.2	2.2
3	11160.00	54.1 PK	74.0	-19.9	1.35 V	186	42.2	11.9
4	11160.00	43.6 AV	54.0	-10.4	1.35 V	186	31.7	11.9

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, the limit was restricted at the RF Output Power.



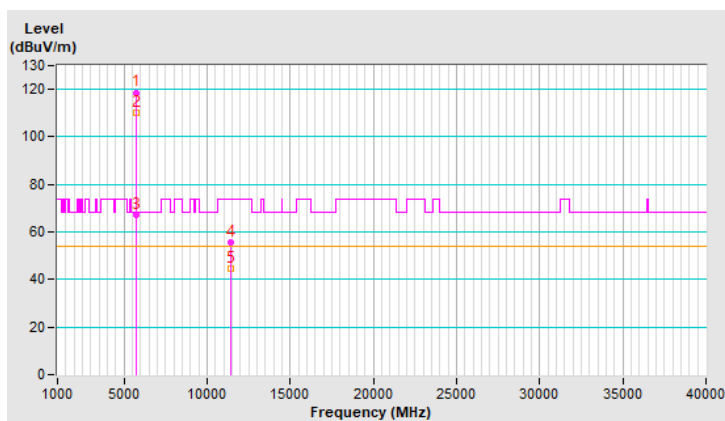
RF Mode	TX 802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	118.7 PK			3.67 H	273	116.4	2.3
2	*5700.00	110.3 AV			3.67 H	273	108.0	2.3
3	#5725.00	67.0 PK	68.2	-1.2	3.67 H	273	64.5	2.5
4	11400.00	55.8 PK	74.0	-18.2	1.79 H	181	43.6	12.2
5	11400.00	44.6 AV	54.0	-9.4	1.79 H	181	32.4	12.2

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

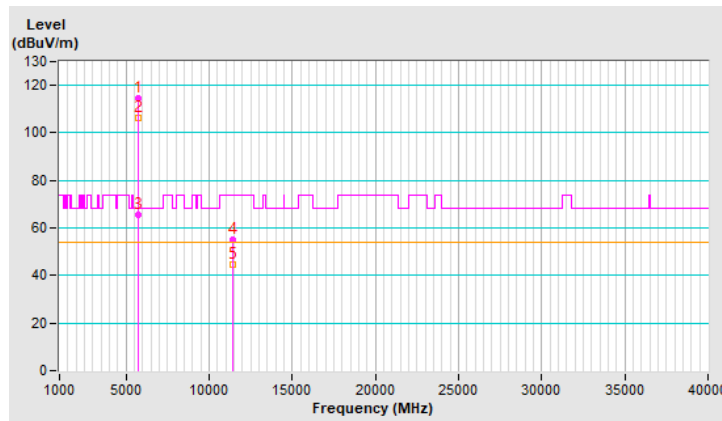


RF Mode	TX 802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	114.4 PK			1.11 V	206	112.1	2.3
2	*5700.00	106.4 AV			1.11 V	206	104.1	2.3
3	#5725.00	65.3 PK	68.2	-2.9	1.11 V	206	62.8	2.5
4	11400.00	54.9 PK	74.0	-19.1	1.43 V	188	42.7	12.2
5	11400.00	44.4 AV	54.0	-9.6	1.43 V	188	32.2	12.2

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



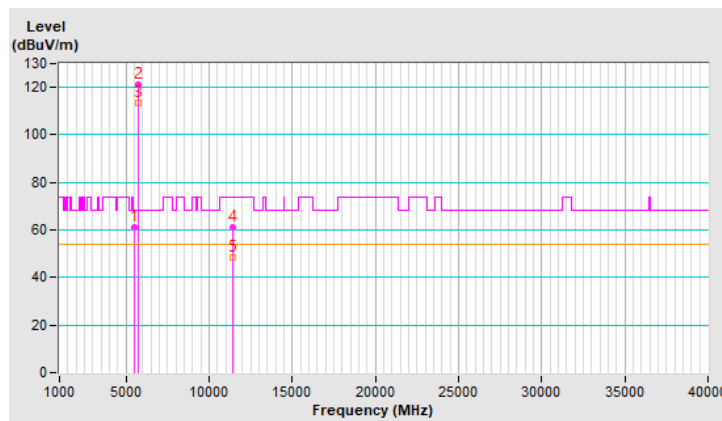
RF Mode	TX 802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5470.00	61.3 PK	68.2	-6.9	2.76 H	215	59.1	2.2
2	*5720.00	121.1 PK			2.76 H	215	118.7	2.4
3	*5720.00	113.3 AV			2.76 H	215	110.9	2.4
4	11440.00	61.0 PK	74.0	-13.0	1.21 H	305	48.8	12.2
5	11440.00	48.5 AV	54.0	-5.5	1.21 H	305	36.3	12.2

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

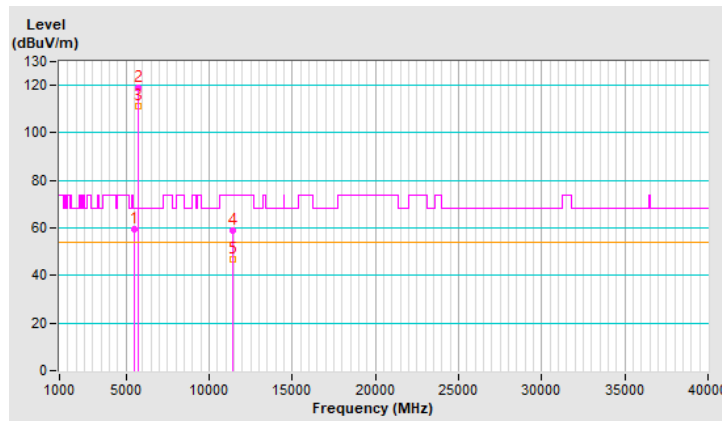


RF Mode	TX 802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5470.00	59.4 PK	68.2	-8.8	1.58 V	20	57.2	2.2
2	*5720.00	119.2 PK			1.58 V	20	116.8	2.4
3	*5720.00	111.3 AV			1.58 V	20	108.9	2.4
4	11440.00	59.0 PK	74.0	-15.0	1.34 V	336	46.8	12.2
5	11440.00	46.6 AV	54.0	-7.4	1.34 V	336	34.4	12.2

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



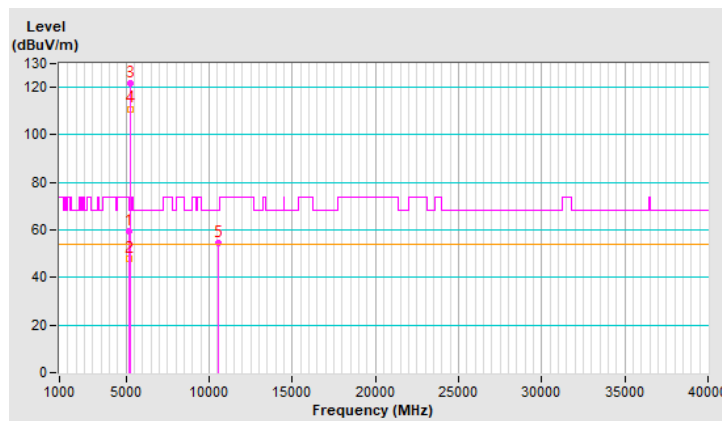
RF Mode	TX 802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	59.6 PK	74.0	-14.4	2.05 H	263	57.2	2.4
2	5150.00	47.8 AV	54.0	-6.2	2.05 H	263	45.4	2.4
3	*5260.00	121.8 PK			2.05 H	263	120.0	1.8
4	*5260.00	111.0 AV			2.05 H	263	109.2	1.8
5	#10520.00	54.6 PK	68.2	-13.6	1.93 H	172	42.6	12.0

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

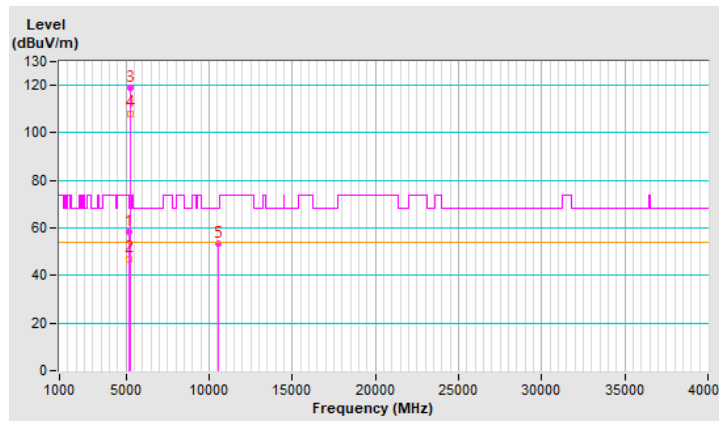


RF Mode	TX 802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	58.5 PK	74.0	-15.5	1.60 V	212	56.1	2.4
2	5150.00	47.1 AV	54.0	-6.9	1.60 V	212	44.7	2.4
3	*5260.00	119.0 PK			1.60 V	212	117.2	1.8
4	*5260.00	108.2 AV			1.60 V	212	106.4	1.8
5	#10520.00	53.6 PK	68.2	-14.6	1.32 V	173	41.6	12.0

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

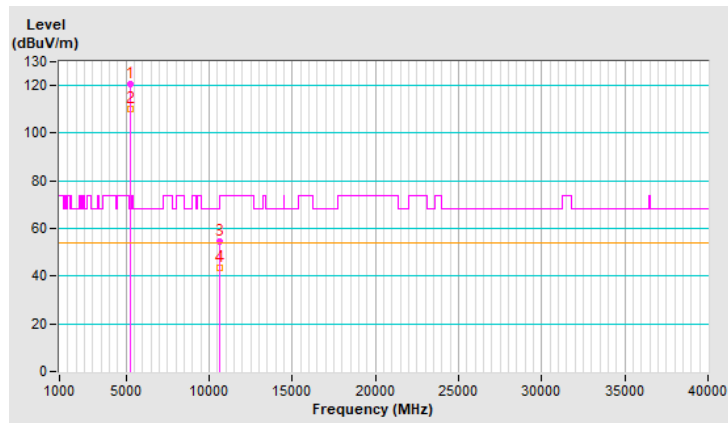


RF Mode	TX 802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	120.8 PK			2.03 H	256	119.1	1.7
2	*5300.00	110.1 AV			2.03 H	256	108.4	1.7
3	10600.00	54.6 PK	74.0	-19.4	1.90 H	175	42.9	11.7
4	10600.00	43.6 AV	54.0	-10.4	1.90 H	175	31.9	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, the limit was restricted at the RF Output Power.

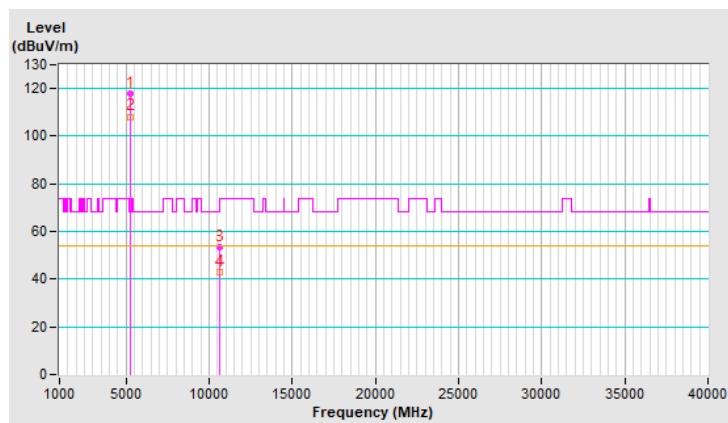


RF Mode	TX 802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	117.9 PK			1.59 V	208	116.2	1.7
2	*5300.00	108.2 AV			1.59 V	208	106.5	1.7
3	10600.00	53.6 PK	74.0	-20.4	1.28 V	176	41.9	11.7
4	10600.00	43.0 AV	54.0	-11.0	1.28 V	176	31.3	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, the limit was restricted at the RF Output Power.

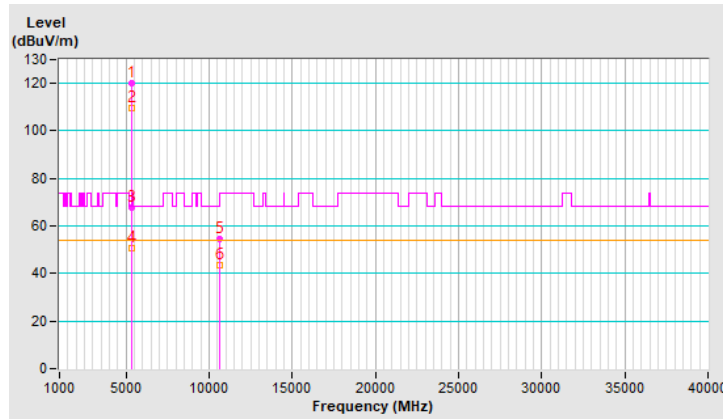


RF Mode	TX 802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	120.3 PK			1.36 H	90	118.6	1.7
2	*5320.00	109.5 AV			1.36 H	90	107.8	1.7
3	5350.00	67.5 PK	74.0	-6.5	1.36 H	90	65.5	2.0
4	5350.00	50.7 AV	54.0	-3.3	1.36 H	90	48.7	2.0
5	10640.00	54.4 PK	74.0	-19.6	1.96 H	179	42.8	11.6
6	10640.00	43.5 AV	54.0	-10.5	1.96 H	179	31.9	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, the limit was restricted at the RF Output Power.

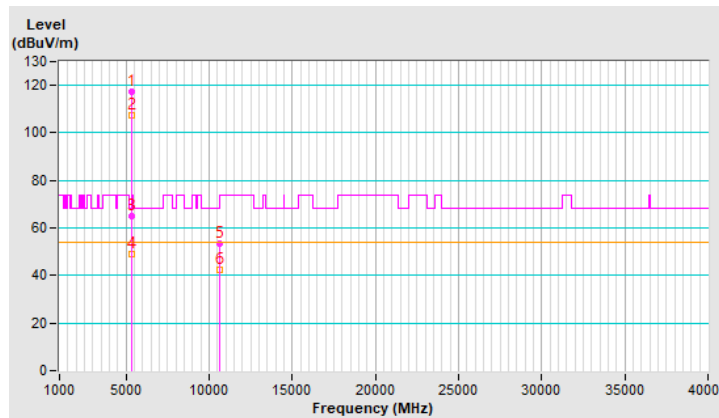


RF Mode	TX 802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	117.2 PK			1.59 V	208	115.5	1.7
2	*5320.00	107.1 AV			1.59 V	208	105.4	1.7
3	5350.00	64.8 PK	74.0	-9.2	1.59 V	208	62.8	2.0
4	5350.00	49.2 AV	54.0	-4.8	1.59 V	208	47.2	2.0
5	10640.00	53.3 PK	74.0	-20.7	1.38 V	166	41.7	11.6
6	10640.00	42.6 AV	54.0	-11.4	1.38 V	166	31.0	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, the limit was restricted at the RF Output Power.

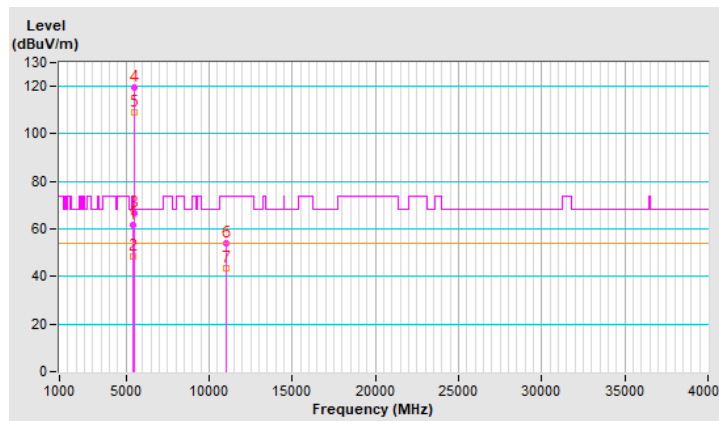


RF Mode	TX 802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	61.5 PK	74.0	-12.5	1.27 H	250	59.3	2.2
2	5460.00	48.4 AV	54.0	-5.6	1.27 H	250	46.2	2.2
3	#5470.00	66.7 PK	68.2	-1.5	1.27 H	250	64.5	2.2
4	*5500.00	119.6 PK			1.27 H	250	117.5	2.1
5	*5500.00	109.3 AV			1.27 H	250	107.2	2.1
6	11000.00	54.0 PK	74.0	-20.0	1.83 H	174	41.9	12.1
7	11000.00	43.4 AV	54.0	-10.6	1.83 H	174	31.3	12.1

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



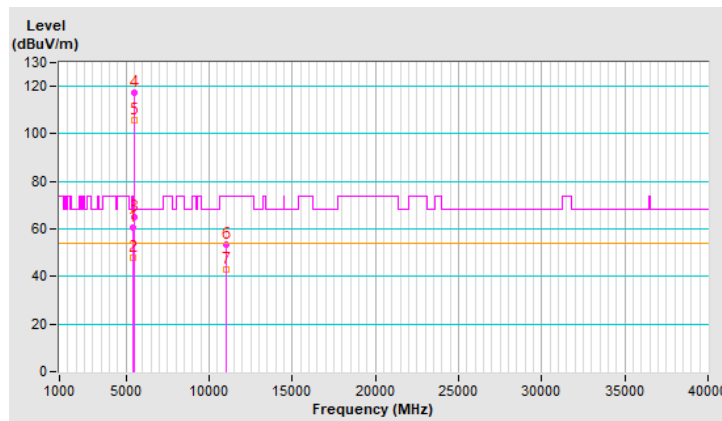
RF Mode	TX 802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	60.7 PK	74.0	-13.3	1.34 V	205	58.5	2.2
2	5460.00	48.1 AV	54.0	-5.9	1.34 V	205	45.9	2.2
3	#5470.00	64.8 PK	68.2	-3.4	1.34 V	205	62.6	2.2
4	*5500.00	117.1 PK			1.34 V	205	115.0	2.1
5	*5500.00	105.8 AV			1.34 V	205	103.7	2.1
6	11000.00	53.3 PK	74.0	-20.7	1.39 V	189	41.2	12.1
7	11000.00	43.1 AV	54.0	-10.9	1.39 V	189	31.0	12.1

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



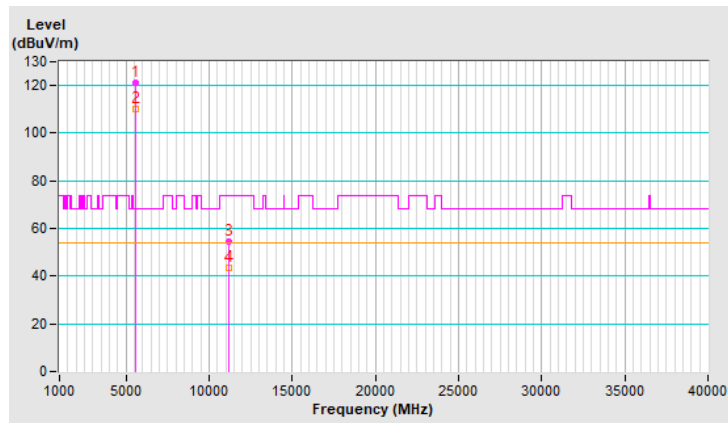
RF Mode	TX 802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	121.3 PK			1.19 H	248	119.1	2.2
2	*5580.00	110.1 AV			1.19 H	248	107.9	2.2
3	11160.00	54.3 PK	74.0	-19.7	1.82 H	179	42.4	11.9
4	11160.00	43.6 AV	54.0	-10.4	1.82 H	179	31.7	11.9

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, the limit was restricted at the RF Output Power.

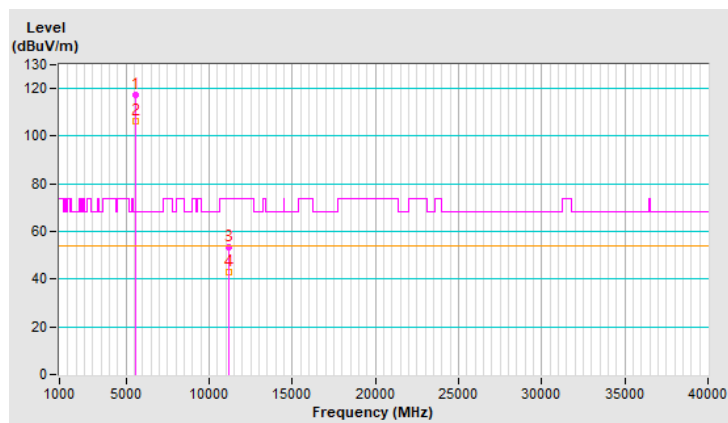


RF Mode	TX 802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	117.2 PK			1.45 V	200	115.0	2.2
2	*5580.00	106.2 AV			1.45 V	200	104.0	2.2
3	11160.00	53.5 PK	74.0	-20.5	1.33 V	191	41.6	11.9
4	11160.00	42.9 AV	54.0	-11.1	1.33 V	191	31.0	11.9

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, the limit was restricted at the RF Output Power.



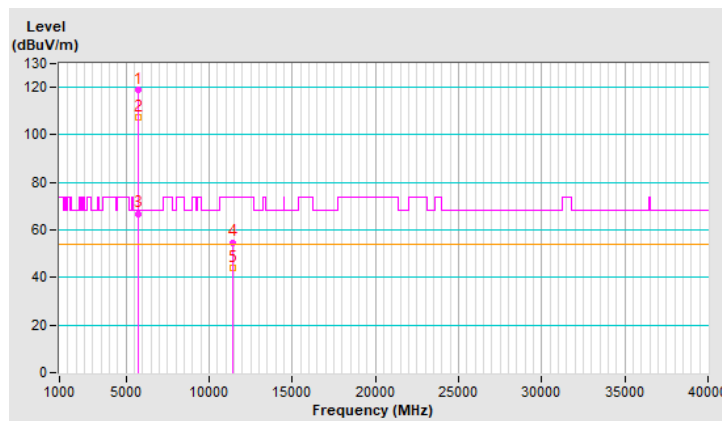
RF Mode	TX 802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	118.7 PK			1.16 H	250	116.4	2.3
2	*5700.00	107.2 AV			1.16 H	250	104.9	2.3
3	#5725.00	66.9 PK	68.2	-1.3	1.16 H	250	64.4	2.5
4	11400.00	54.8 PK	74.0	-19.2	1.85 H	172	42.6	12.2
5	11400.00	44.1 AV	54.0	-9.9	1.85 H	172	31.9	12.2

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

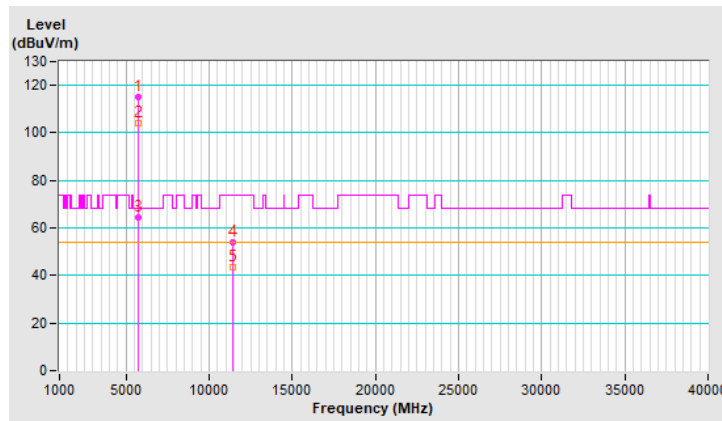


RF Mode	TX 802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	115.2 PK			2.59 V	18	112.9	2.3
2	*5700.00	104.3 AV			2.59 V	18	102.0	2.3
3	#5725.00	64.4 PK	68.2	-3.8	2.59 V	18	61.9	2.5
4	11400.00	53.9 PK	74.0	-20.1	1.30 V	184	41.7	12.2
5	11400.00	43.6 AV	54.0	-10.4	1.30 V	184	31.4	12.2

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



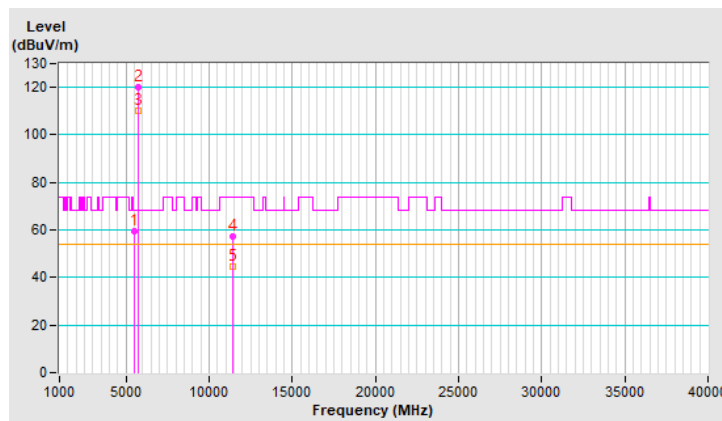
RF Mode	TX 802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5470.00	59.4 PK	68.2	-8.8	1.97 H	236	57.2	2.2
2	*5720.00	119.9 PK			1.97 H	236	117.5	2.4
3	*5720.00	110.0 AV			1.97 H	236	107.6	2.4
4	11440.00	57.2 PK	74.0	-16.8	1.25 H	306	45.0	12.2
5	11440.00	44.8 AV	54.0	-9.2	1.25 H	306	32.6	12.2

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



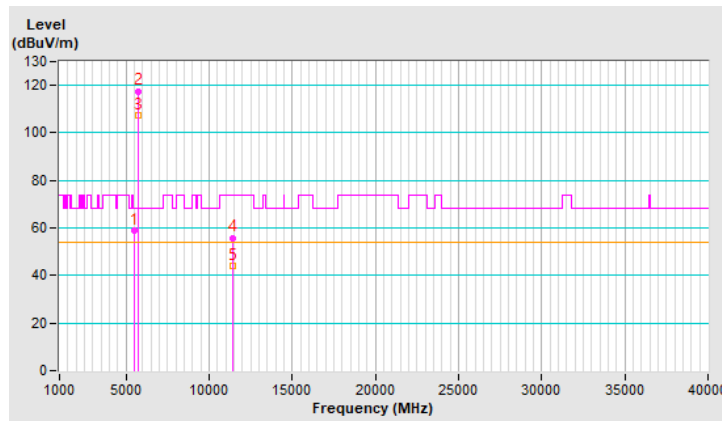
RF Mode	TX 802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5470.00	58.8 PK	68.2	-9.4	2.69 V	22	56.6	2.2
2	*5720.00	117.6 PK			2.69 V	22	115.2	2.4
3	*5720.00	107.3 AV			2.69 V	22	104.9	2.4
4	11440.00	55.9 PK	74.0	-18.1	1.36 V	331	43.7	12.2
5	11440.00	44.2 AV	54.0	-9.8	1.36 V	331	32.0	12.2

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



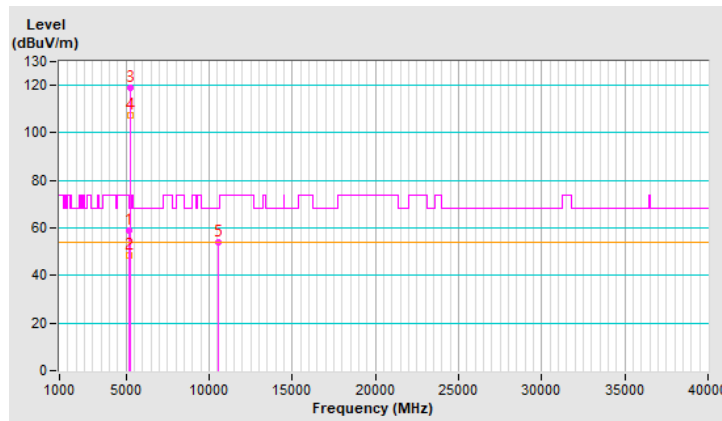
RF Mode	TX 802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	59.1 PK	74.0	-14.9	1.97 H	265	56.7	2.4
2	5150.00	48.3 AV	54.0	-5.7	1.97 H	265	45.9	2.4
3	*5270.00	119.1 PK			1.97 H	265	117.3	1.8
4	*5270.00	107.4 AV			1.97 H	265	105.6	1.8
5	#10540.00	53.9 PK	68.2	-14.3	1.88 H	177	42.0	11.9

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

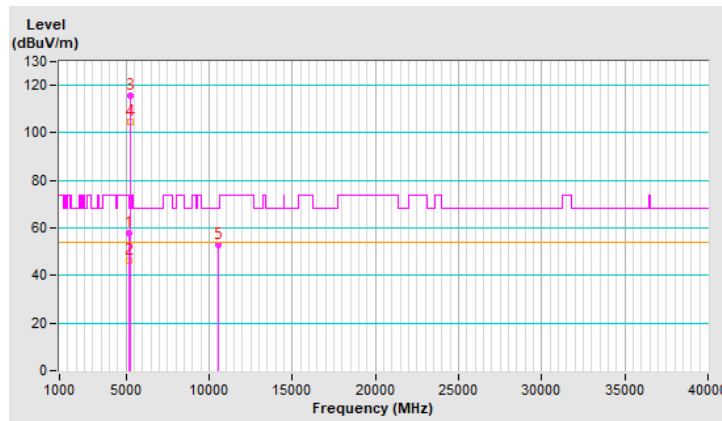


RF Mode	TX 802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	57.6 PK	74.0	-16.4	1.53 V	199	55.2	2.4
2	5150.00	46.5 AV	54.0	-7.5	1.53 V	199	44.1	2.4
3	*5270.00	115.5 PK			1.53 V	199	113.7	1.8
4	*5270.00	104.6 AV			1.53 V	199	102.8	1.8
5	#10540.00	53.0 PK	68.2	-15.2	1.42 V	173	41.1	11.9

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

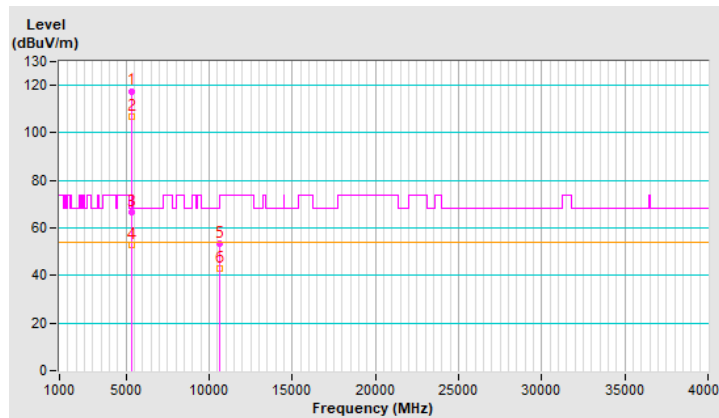


RF Mode	TX 802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	*5310.00	117.6 PK			2.02 H	259	115.9	1.7
2	*5310.00	106.7 AV			2.02 H	259	105.0	1.7
3	5350.00	66.5 PK	74.0	-7.5	2.02 H	259	64.5	2.0
4	5350.00	52.9 AV	54.0	-1.1	2.02 H	259	50.9	2.0
5	10620.00	53.5 PK	74.0	-20.5	1.86 H	174	41.9	11.6
6	10620.00	42.7 AV	54.0	-11.3	1.86 H	174	31.1	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, the limit was restricted at the RF Output Power.

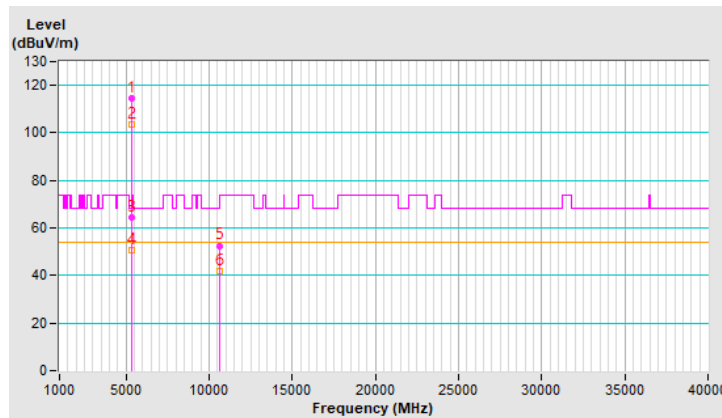


RF Mode	TX 802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	*5310.00	114.4 PK			1.51 V	210	112.7	1.7
2	*5310.00	103.4 AV			1.51 V	210	101.7	1.7
3	5350.00	64.4 PK	74.0	-9.6	1.51 V	210	62.4	2.0
4	5350.00	50.9 AV	54.0	-3.1	1.51 V	210	48.9	2.0
5	10620.00	52.6 PK	74.0	-21.4	1.46 V	170	41.0	11.6
6	10620.00	41.9 AV	54.0	-12.1	1.46 V	170	30.3	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, the limit was restricted at the RF Output Power.

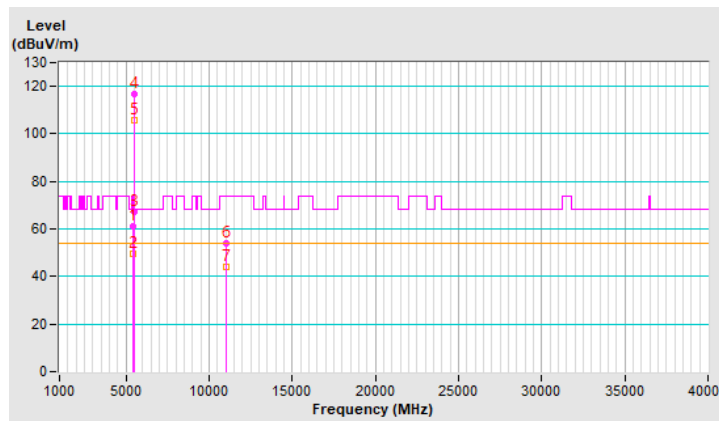


RF Mode	TX 802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	61.1 PK	74.0	-12.9	1.27 H	251	58.9	2.2
2	5460.00	49.5 AV	54.0	-4.5	1.27 H	251	47.3	2.2
3	#5470.00	67.1 PK	68.2	-1.1	1.27 H	251	64.9	2.2
4	*5510.00	116.8 PK			1.27 H	251	114.7	2.1
5	*5510.00	105.6 AV			1.27 H	251	103.5	2.1
6	11020.00	54.2 PK	74.0	-19.8	1.87 H	169	42.1	12.1
7	11020.00	44.0 AV	54.0	-10.0	1.87 H	169	31.9	12.1

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

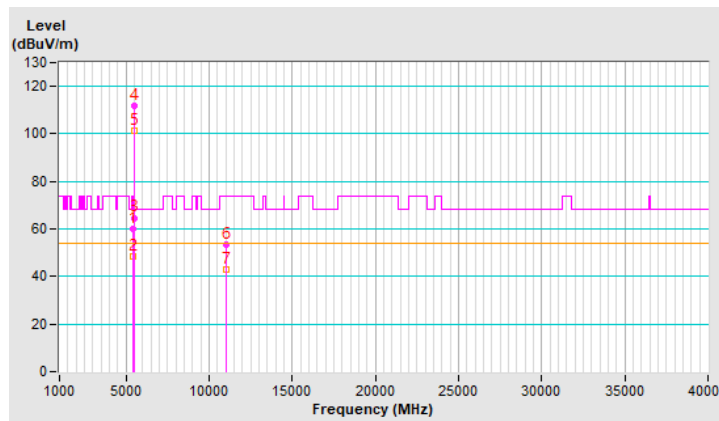


RF Mode	TX 802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	60.1 PK	74.0	-13.9	1.40 V	201	57.9	2.2
2	5460.00	48.6 AV	54.0	-5.4	1.40 V	201	46.4	2.2
3	#5470.00	64.7 PK	68.2	-3.5	1.40 V	201	62.5	2.2
4	*5510.00	111.9 PK			1.40 V	201	109.8	2.1
5	*5510.00	101.3 AV			1.40 V	201	99.2	2.1
6	11020.00	53.5 PK	74.0	-20.5	1.28 V	178	41.4	12.1
7	11020.00	43.1 AV	54.0	-10.9	1.28 V	178	31.0	12.1

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

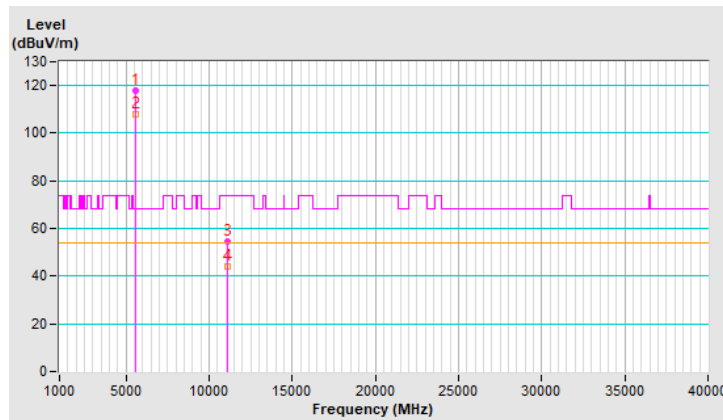


RF Mode	TX 802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	*5550.00	118.1 PK			2.07 H	249	115.9	2.2
2	*5550.00	108.0 AV			2.07 H	249	105.8	2.2
3	11100.00	54.4 PK	74.0	-19.6	1.83 H	176	42.5	11.9
4	11100.00	44.0 AV	54.0	-10.0	1.83 H	176	32.1	11.9

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, the limit was restricted at the RF Output Power.

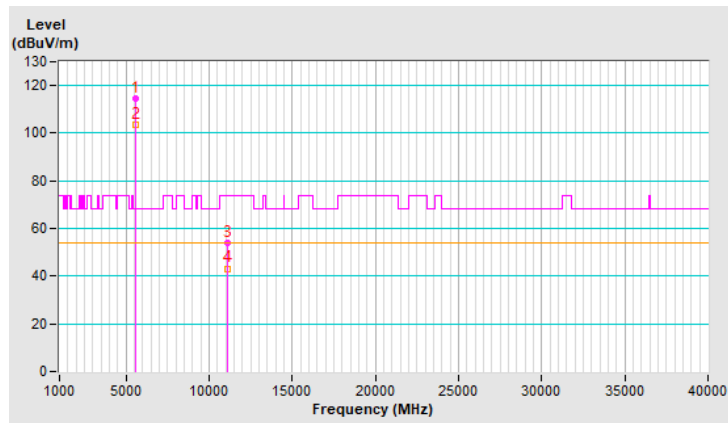


RF Mode	TX 802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	*5550.00	114.6 PK			1.39 V	205	112.4	2.2
2	*5550.00	103.6 AV			1.39 V	205	101.4	2.2
3	11100.00	53.8 PK	74.0	-20.2	1.32 V	180	41.9	11.9
4	11100.00	43.2 AV	54.0	-10.8	1.32 V	180	31.3	11.9

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, the limit was restricted at the RF Output Power.



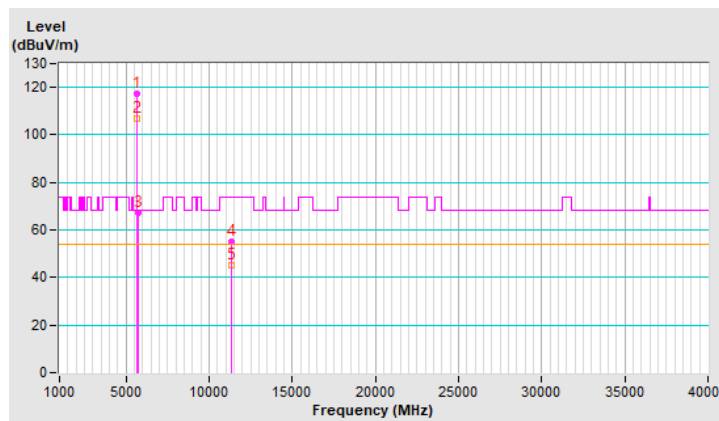
RF Mode	TX 802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	*5670.00	117.3 PK			1.88 H	248	115.1	2.2
2	*5670.00	106.8 AV			1.88 H	248	104.6	2.2
3	#5725.00	67.2 PK	68.2	-1.0	1.88 H	248	64.7	2.5
4	11340.00	55.2 PK	74.0	-18.8	1.80 H	177	43.1	12.1
5	11340.00	44.9 AV	54.0	-9.1	1.80 H	177	32.8	12.1

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

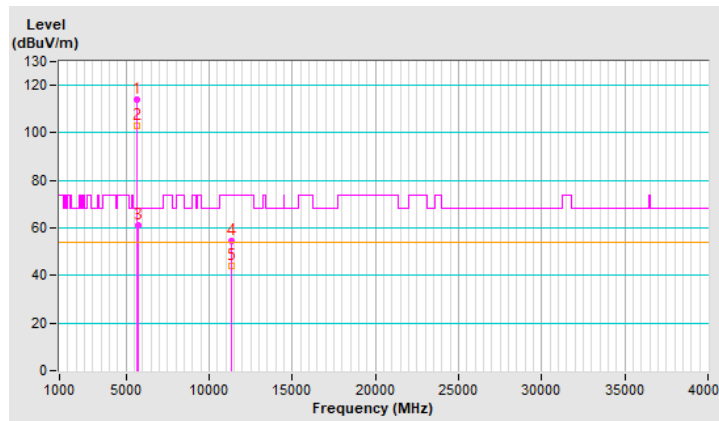


RF Mode	TX 802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	*5670.00	114.0 PK			2.61 V	21	111.8	2.2
2	*5670.00	103.1 AV			2.61 V	21	100.9	2.2
3	#5725.00	60.9 PK	68.2	-7.3	2.61 V	21	58.4	2.5
4	11340.00	54.6 PK	74.0	-19.4	1.36 V	185	42.5	12.1
5	11340.00	44.1 AV	54.0	-9.9	1.36 V	185	32.0	12.1

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



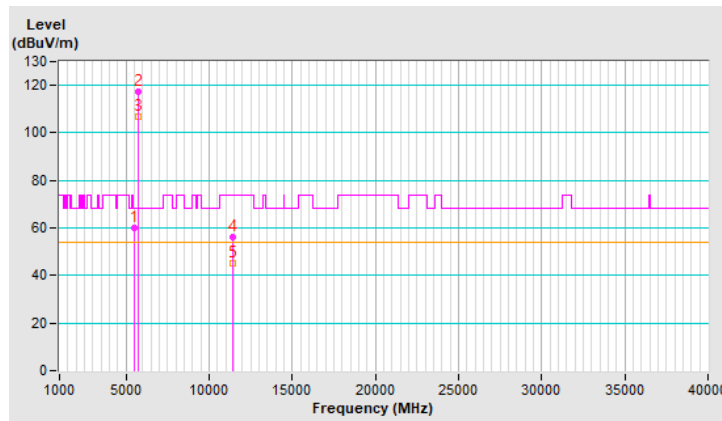
RF Mode	TX 802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5470.00	60.0 PK	68.2	-8.2	2.00 H	260	57.8	2.2
2	*5710.00	117.5 PK			2.00 H	260	115.1	2.4
3	*5710.00	107.0 AV			2.00 H	260	104.6	2.4
4	11420.00	56.0 PK	74.0	-18.0	1.23 H	312	43.7	12.3
5	11420.00	45.3 AV	54.0	-8.7	1.23 H	312	33.0	12.3

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

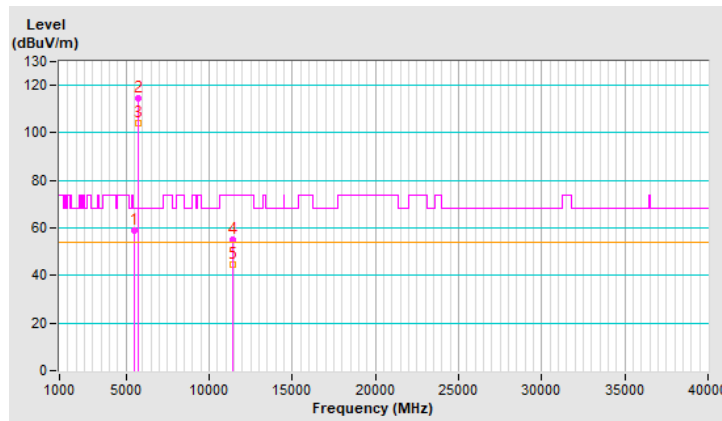


RF Mode	TX 802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5470.00	58.9 PK	68.2	-9.3	2.59 V	23	56.7	2.2
2	*5710.00	114.6 PK			2.59 V	23	112.2	2.4
3	*5710.00	104.0 AV			2.59 V	23	101.6	2.4
4	11420.00	55.2 PK	74.0	-18.8	1.37 V	321	42.9	12.3
5	11420.00	44.6 AV	54.0	-9.4	1.37 V	321	32.3	12.3

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

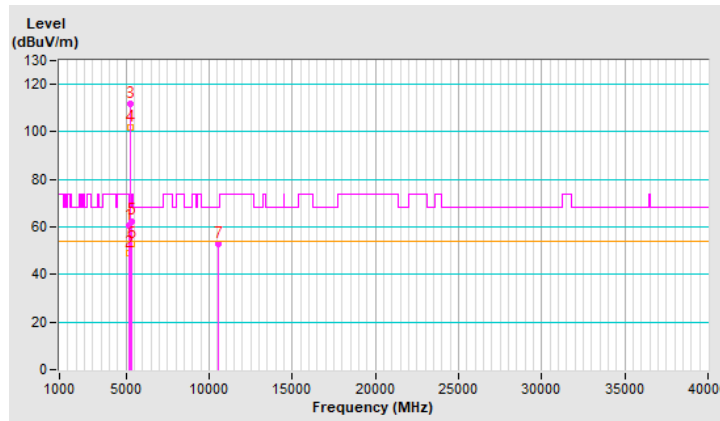


RF Mode	TX 802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	60.6 PK	74.0	-13.4	2.04 H	258	58.2	2.4
2	5150.00	49.2 AV	54.0	-4.8	2.04 H	258	46.8	2.4
3	*5290.00	111.8 PK			2.04 H	258	110.1	1.7
4	*5290.00	101.9 AV			2.04 H	258	100.2	1.7
5	5350.00	62.5 PK	74.0	-11.5	2.04 H	258	60.5	2.0
6	5350.00	52.7 AV	54.0	-1.3	2.04 H	258	50.7	2.0
7	#10580.00	52.8 PK	68.2	-15.4	1.83 H	171	41.1	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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

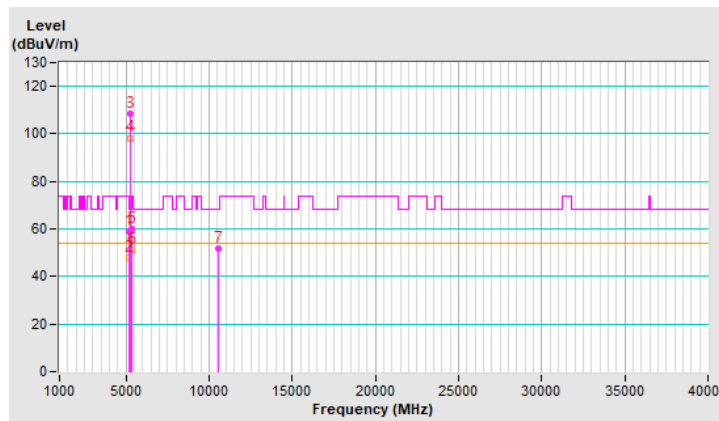


RF Mode	TX 802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	59.1 PK	74.0	-14.9	1.60 V	211	56.7	2.4
2	5150.00	47.9 AV	54.0	-6.1	1.60 V	211	45.5	2.4
3	*5290.00	108.6 PK			1.60 V	211	106.9	1.7
4	*5290.00	98.3 AV			1.60 V	211	96.6	1.7
5	5350.00	59.8 PK	74.0	-14.2	1.60 V	211	57.8	2.0
6	5350.00	51.3 AV	54.0	-2.7	1.60 V	211	49.3	2.0
7	#10580.00	52.0 PK	68.2	-16.2	1.48 V	172	40.3	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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



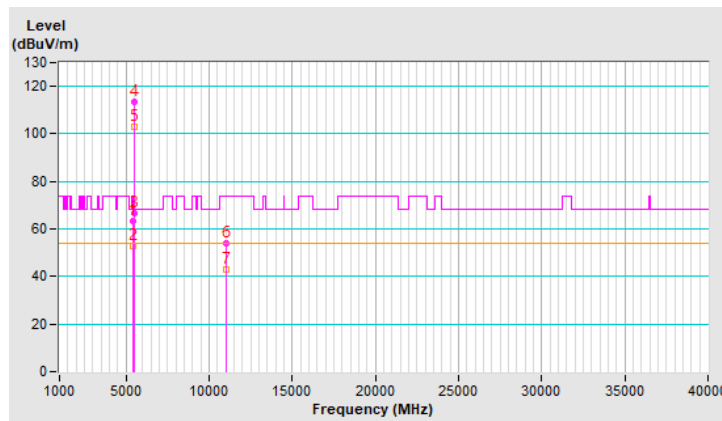
RF Mode	TX 802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	63.1 PK	74.0	-10.9	1.26 H	250	60.9	2.2
2	5460.00	53.0 AV	54.0	-1.0	1.26 H	250	50.8	2.2
3	#5470.00	66.5 PK	68.2	-1.7	1.26 H	250	64.3	2.2
4	*5530.00	113.7 PK			1.26 H	250	111.6	2.1
5	*5530.00	103.0 AV			1.26 H	250	100.9	2.1
6	11060.00	53.9 PK	74.0	-20.1	1.86 H	173	41.9	12.0
7	11060.00	43.1 AV	54.0	-10.9	1.86 H	173	31.1	12.0

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

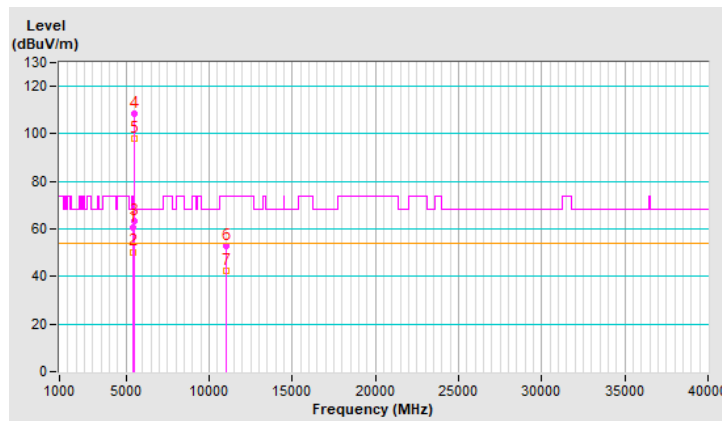


RF Mode	TX 802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	60.5 PK	74.0	-13.5	1.39 V	206	58.3	2.2
2	5460.00	50.4 AV	54.0	-3.6	1.39 V	206	48.2	2.2
3	#5470.00	63.5 PK	68.2	-4.7	1.39 V	206	61.3	2.2
4	*5530.00	108.3 PK			1.39 V	206	106.2	2.1
5	*5530.00	97.9 AV			1.39 V	206	95.8	2.1
6	11060.00	53.0 PK	74.0	-21.0	1.33 V	184	41.0	12.0
7	11060.00	42.5 AV	54.0	-11.5	1.33 V	184	30.5	12.0

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



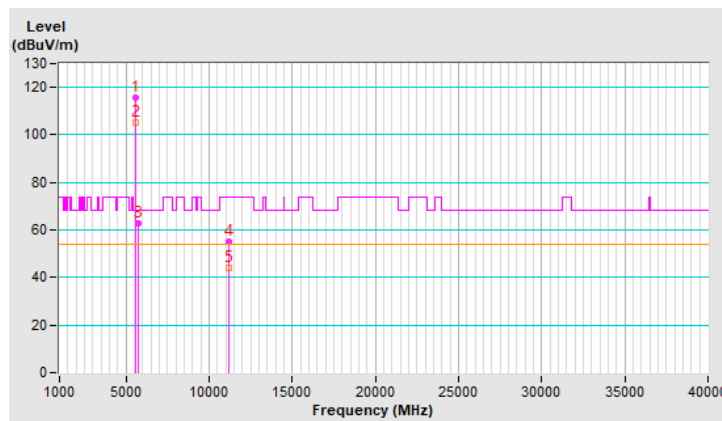
RF Mode	TX 802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	*5610.00	115.9 PK			2.55 H	254	113.7	2.2
2	*5610.00	105.3 AV			2.55 H	254	103.1	2.2
3	#5725.00	62.6 PK	68.2	-5.6	2.55 H	254	60.1	2.5
4	11220.00	54.9 PK	74.0	-19.1	1.83 H	179	42.8	12.1
5	11220.00	44.2 AV	54.0	-9.8	1.83 H	179	32.1	12.1

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

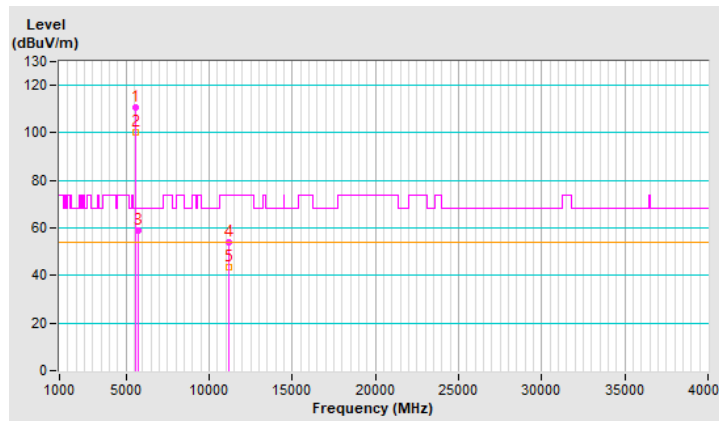


RF Mode	TX 802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	*5610.00	110.6 PK			1.07 V	206	108.4	2.2
2	*5610.00	100.1 AV			1.07 V	206	97.9	2.2
3	#5725.00	59.1 PK	68.2	-9.1	1.07 V	206	56.6	2.5
4	11220.00	53.9 PK	74.0	-20.1	1.30 V	186	41.8	12.1
5	11220.00	43.4 AV	54.0	-10.6	1.30 V	186	31.3	12.1

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



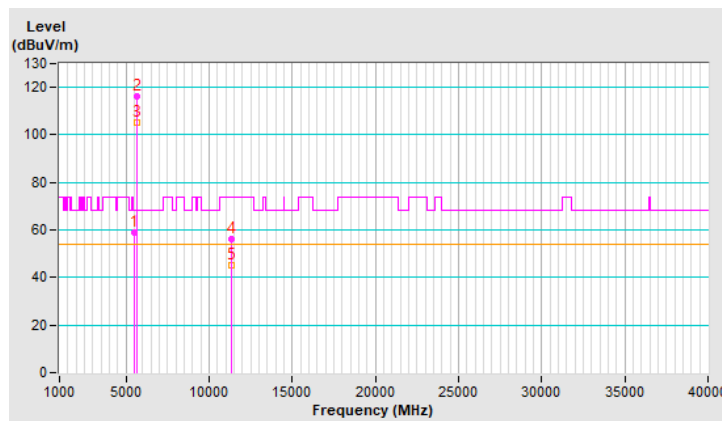
RF Mode	TX 802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5470.00	59.1 PK	68.2	-9.1	3.54 H	260	56.9	2.2
2	*5690.00	116.1 PK			3.54 H	260	113.8	2.3
3	*5690.00	105.3 AV			3.54 H	260	103.0	2.3
4	11380.00	56.1 PK	74.0	-17.9	1.30 H	303	43.9	12.2
5	11380.00	44.9 AV	54.0	-9.1	1.30 H	303	32.7	12.2

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

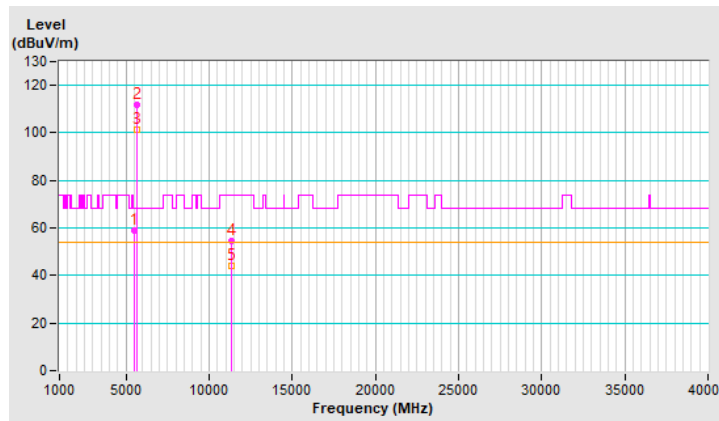


RF Mode	TX 802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

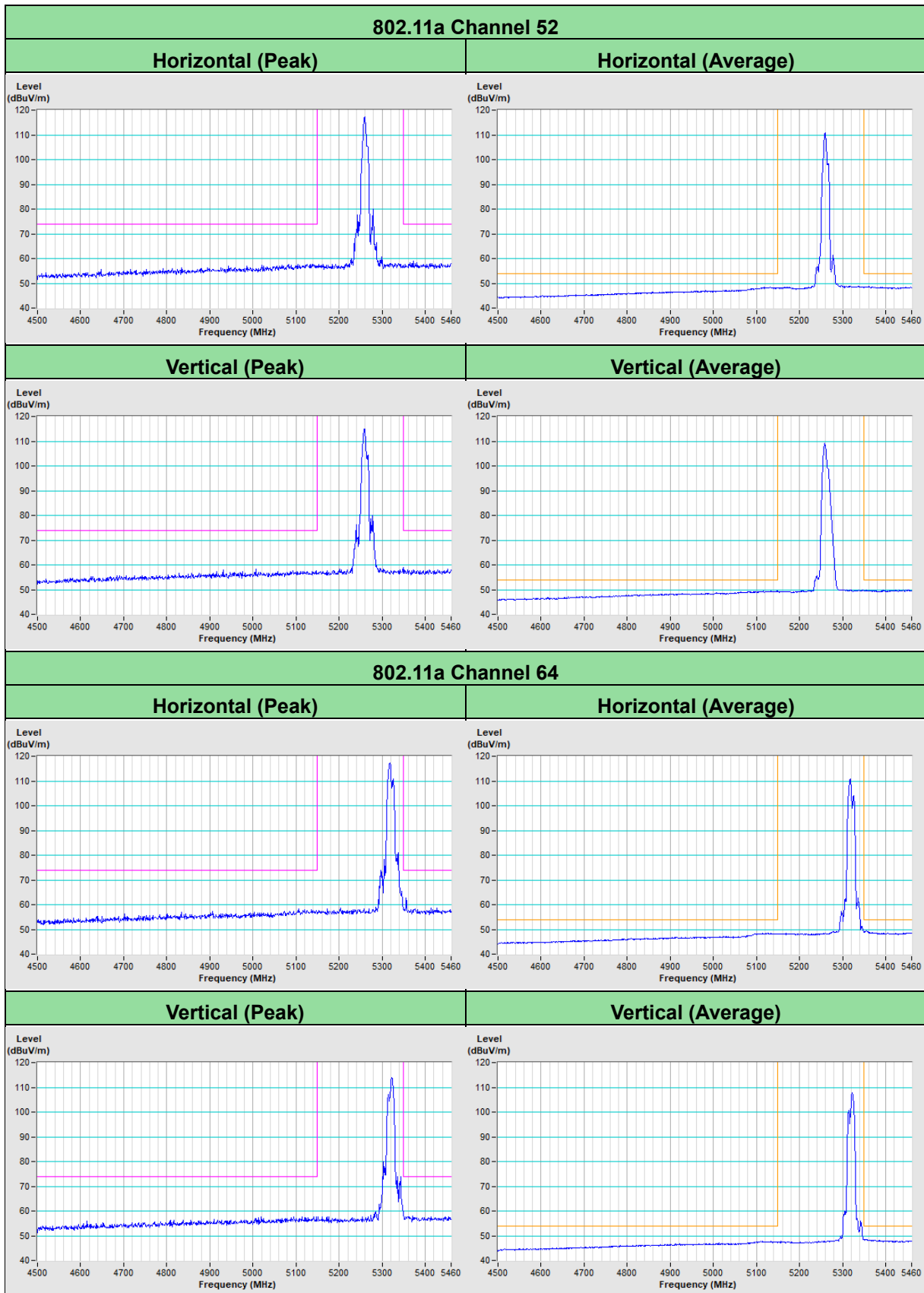
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	#5470.00	58.7 PK	68.2	-9.5	2.81 V	21	56.5	2.2
2	*5690.00	111.9 PK			2.81 V	21	109.6	2.3
3	*5690.00	101.2 AV			2.81 V	21	98.9	2.3
4	11380.00	54.7 PK	74.0	-19.3	1.39 V	316	42.5	12.2
5	11380.00	44.0 AV	54.0	-10.0	1.39 V	316	31.8	12.2

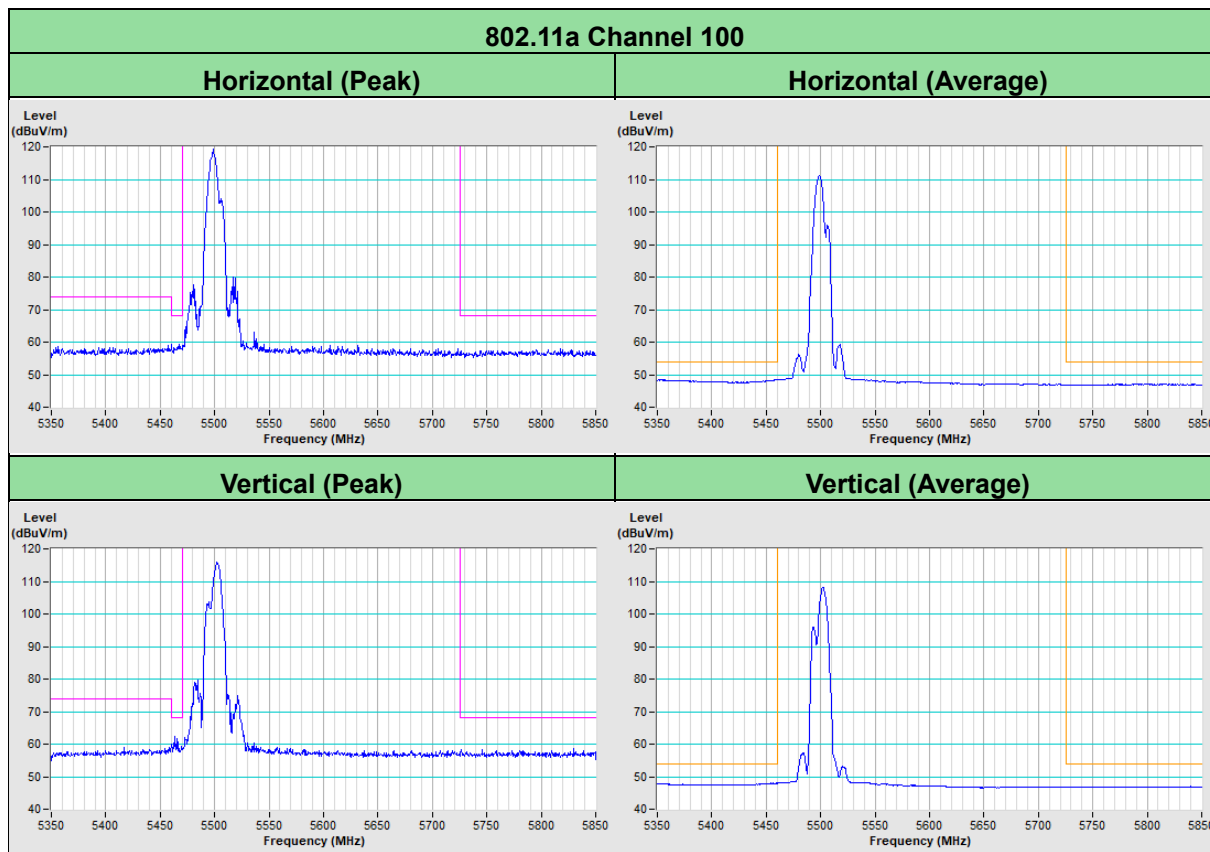
Remarks:

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

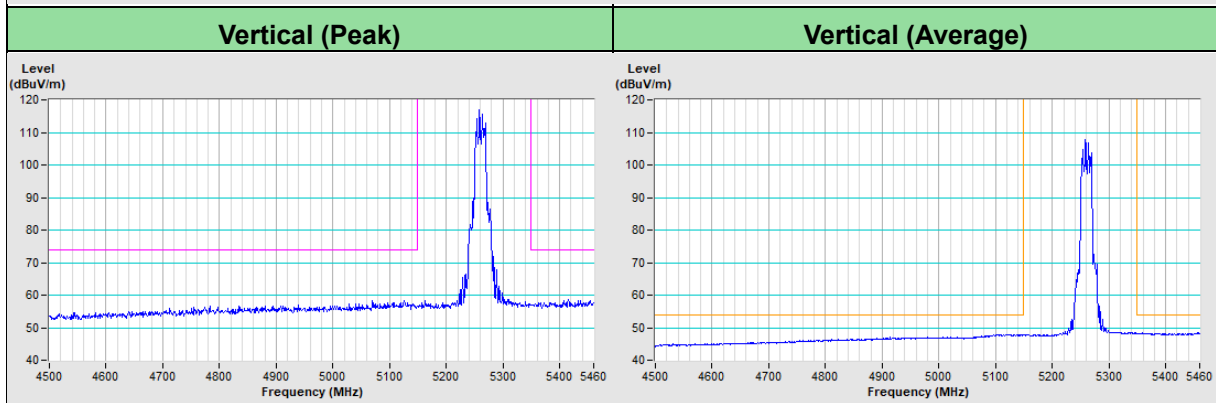
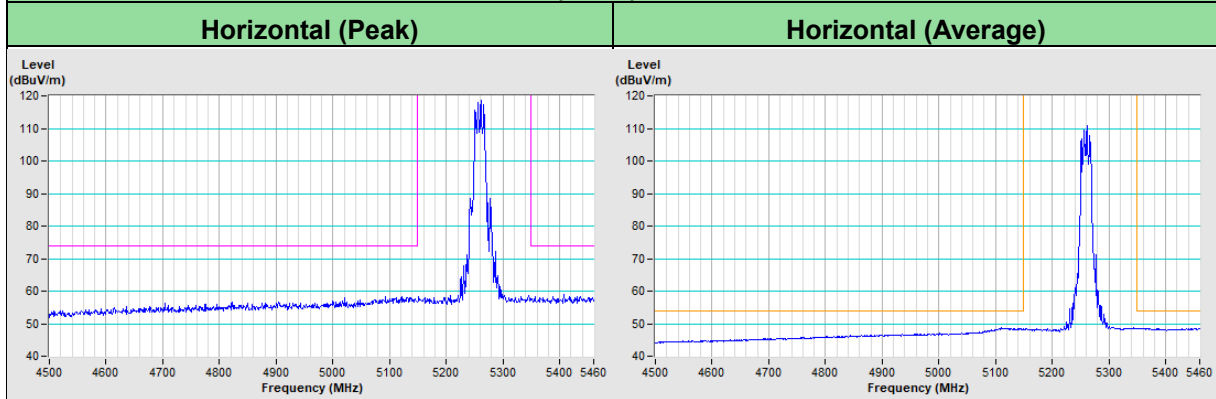


Mode B_Plot of Band Edge

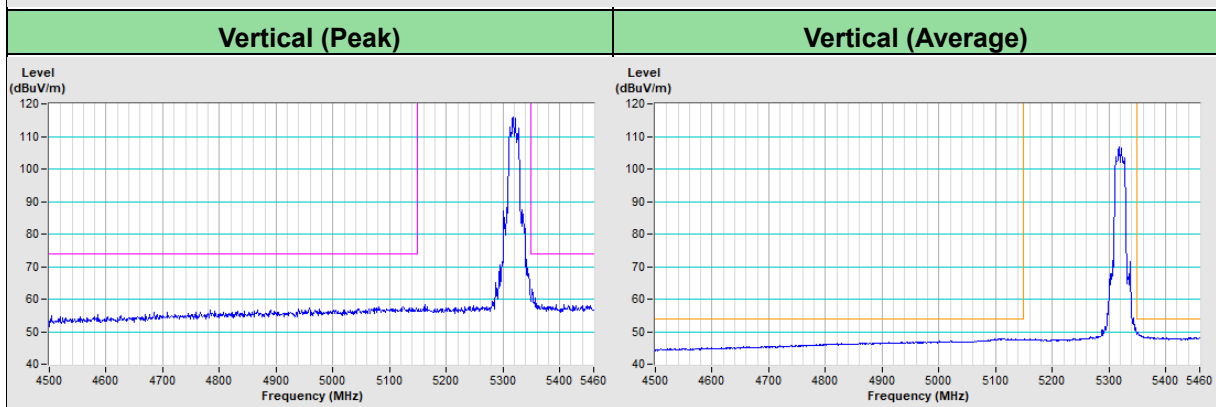
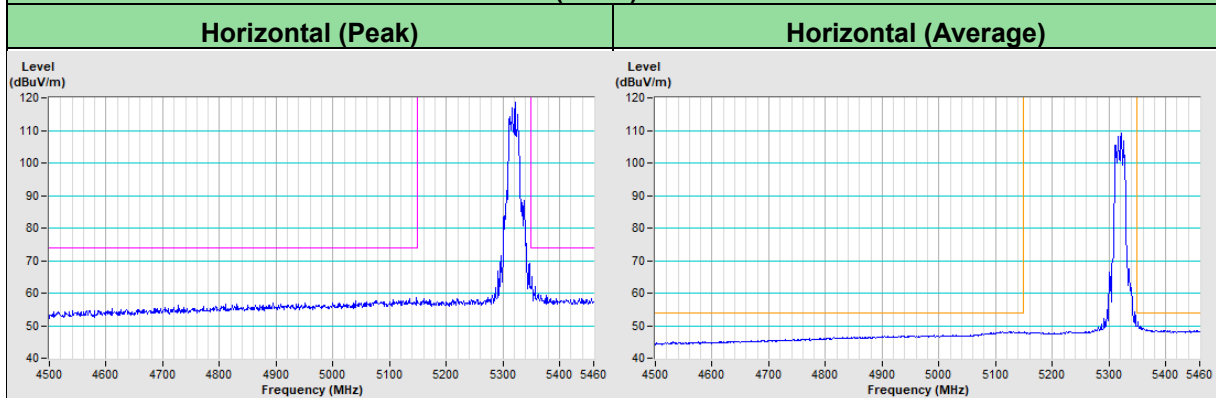


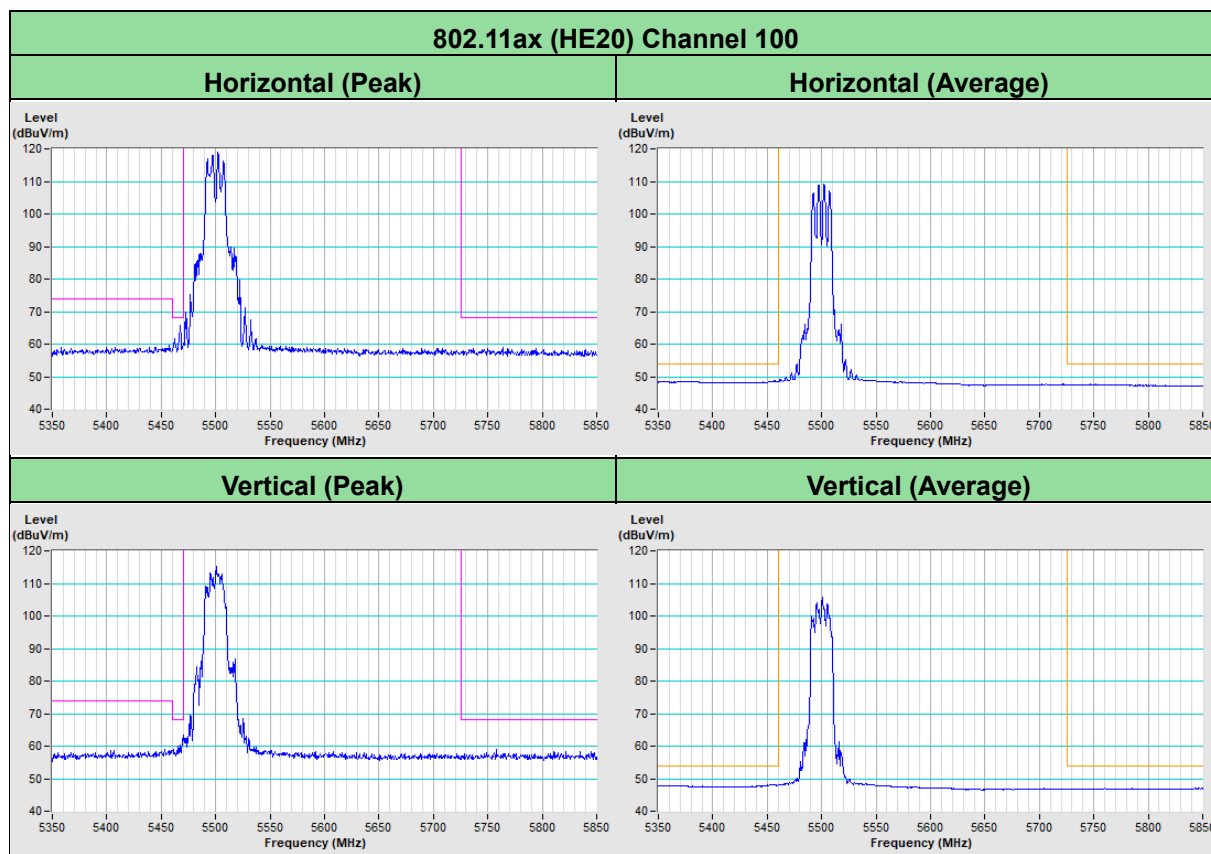


802.11ax (HE20) Channel 52



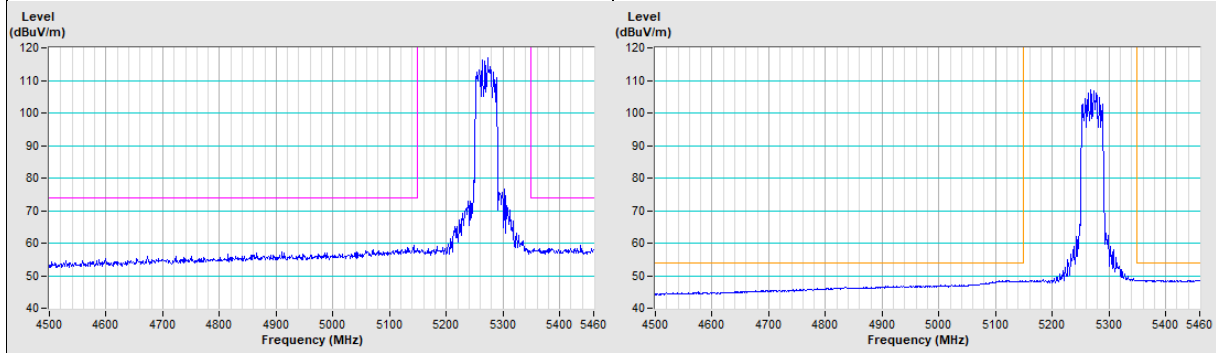
802.11ax (HE20) Channel 64



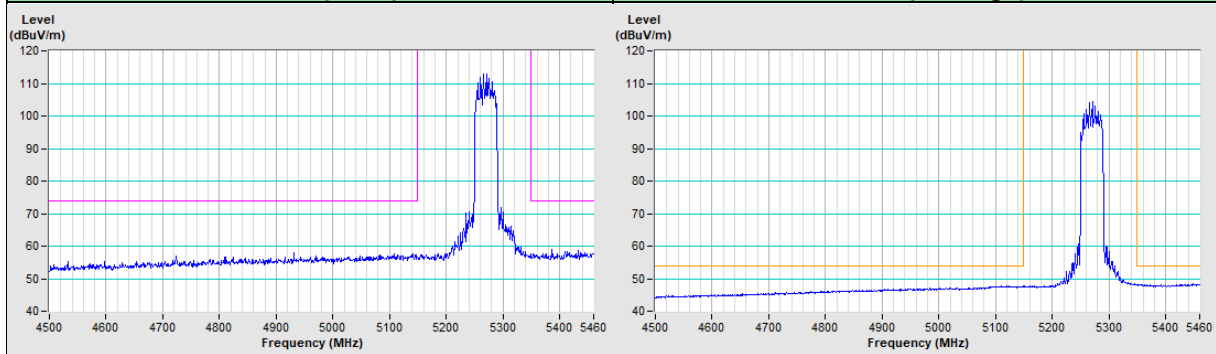


802.11ax (HE40) Channel 54

Horizontal (Peak)	Horizontal (Average)
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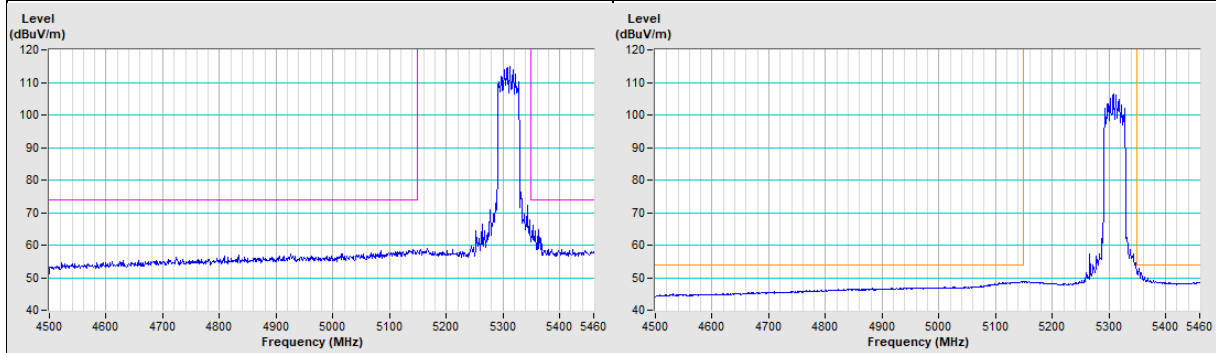


Vertical (Peak)	Vertical (Average)
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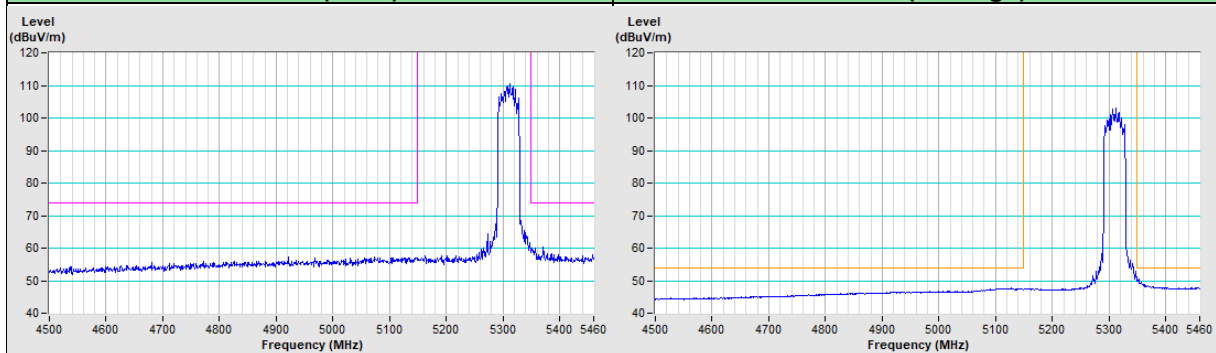


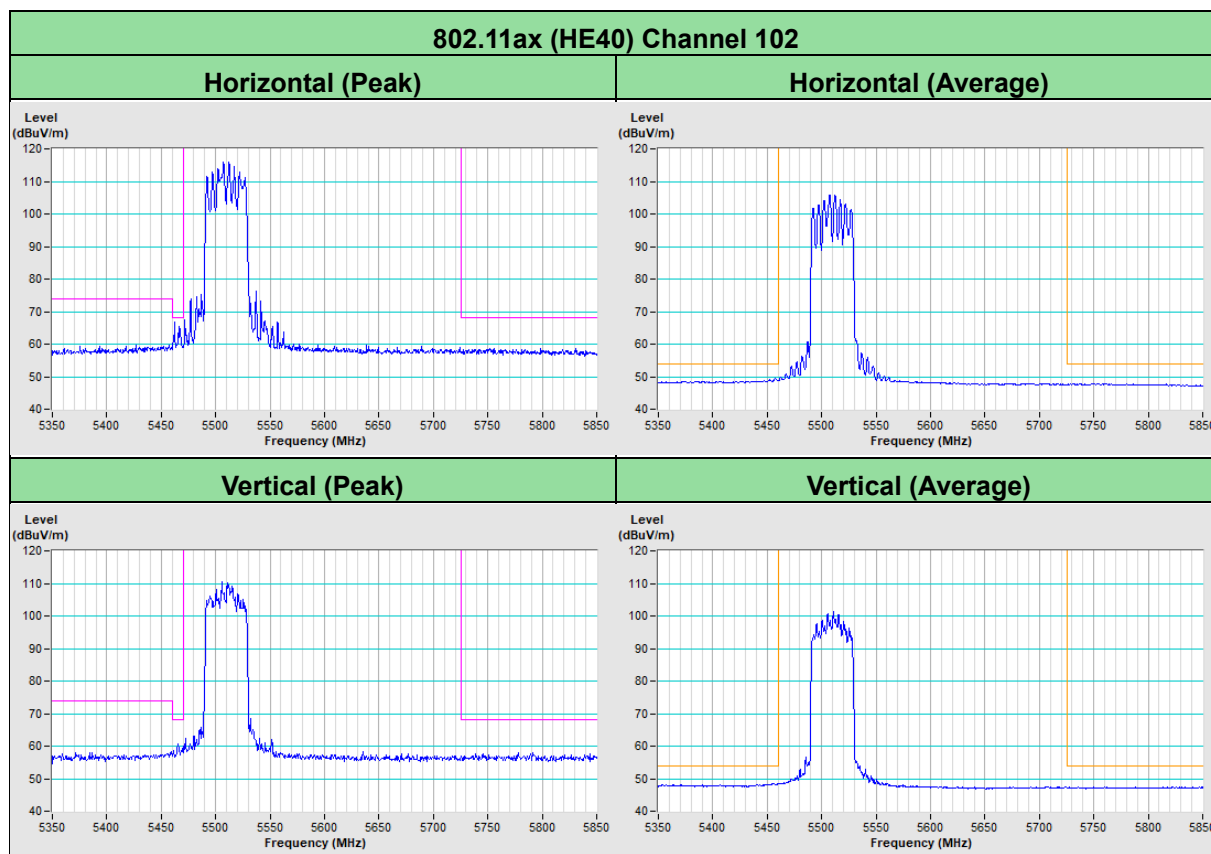
802.11ax (HE40) Channel 62

Horizontal (Peak)	Horizontal (Average)
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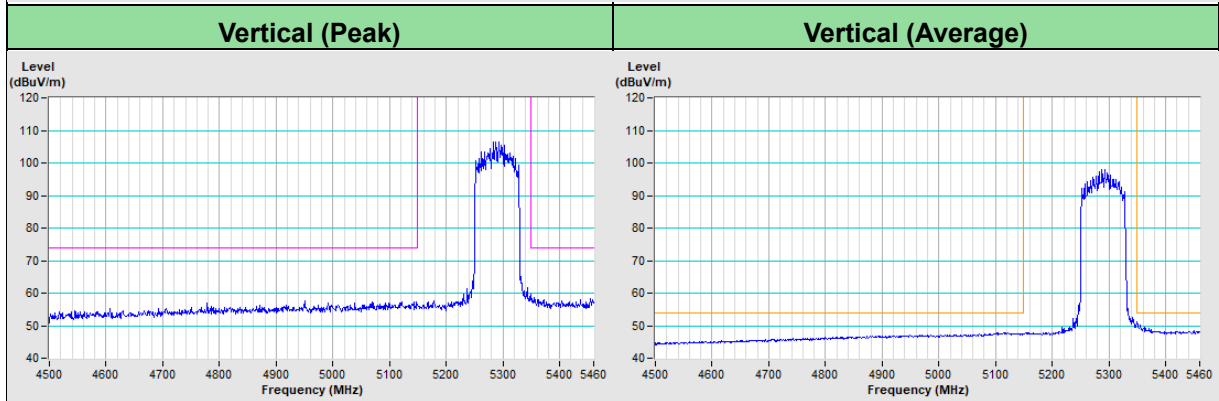
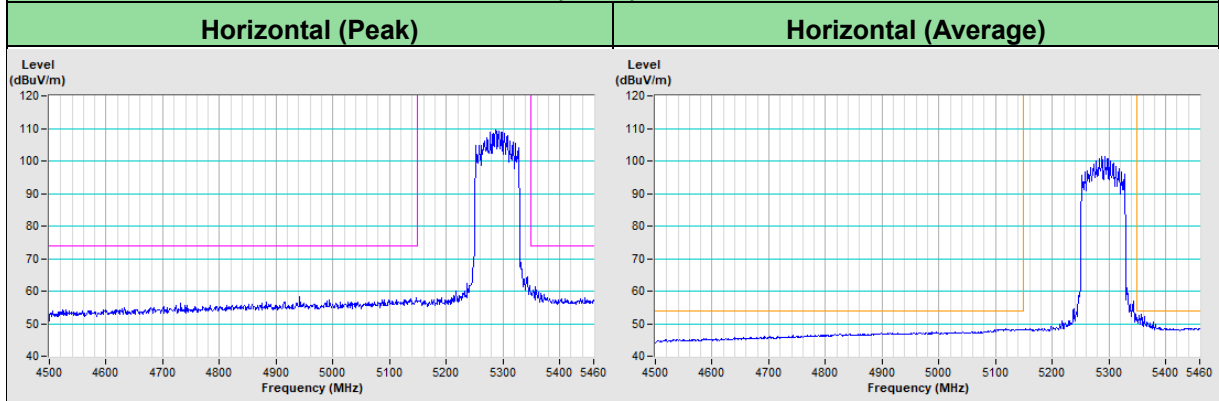


Vertical (Peak)	Vertical (Average)
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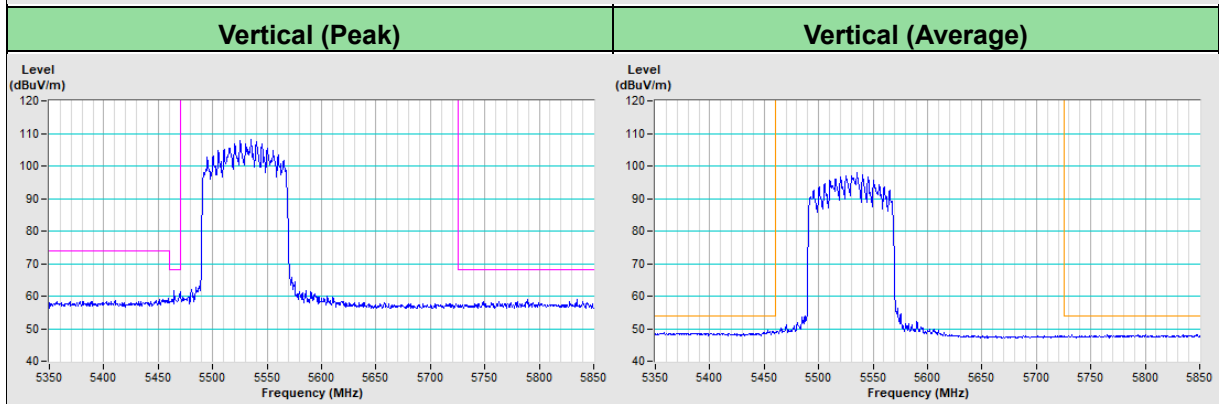
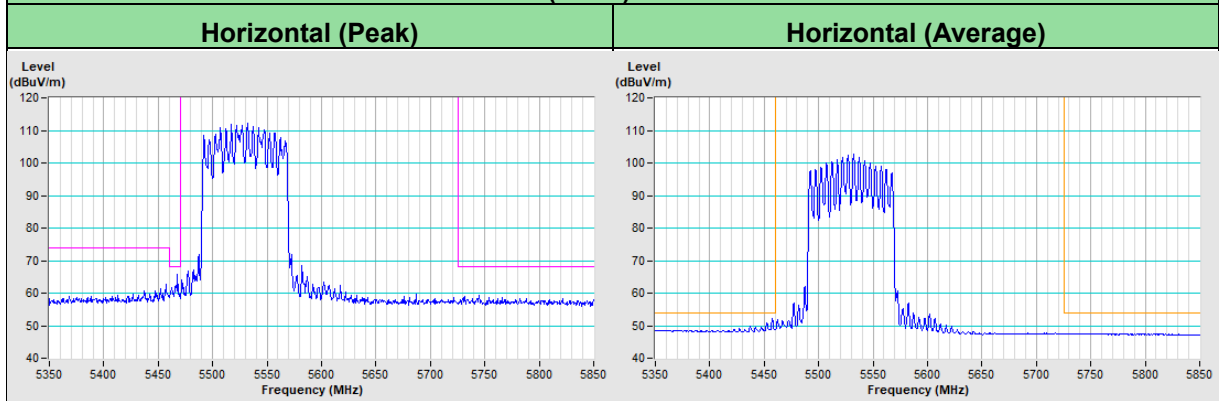




802.11ax (HE80) Channel 58



802.11ax (HE80) Channel 106



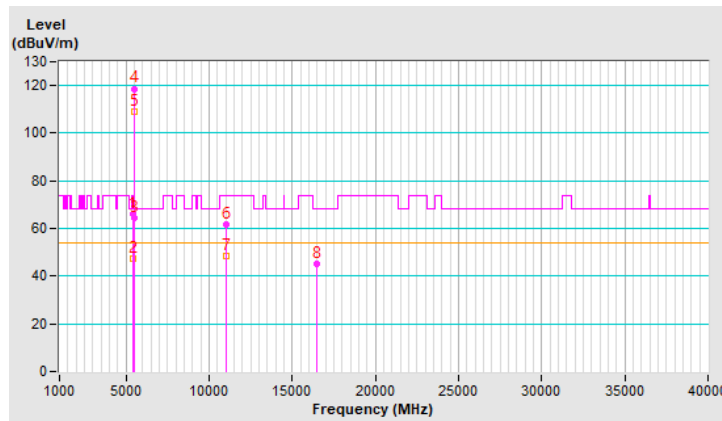
Mode C

RF Mode	TX 802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	66.2 PK	74.0	-7.8	1.72 H	211	64.0	2.2
2	5460.00	47.4 AV	54.0	-6.6	1.72 H	211	45.2	2.2
3	#5470.00	64.5 PK	68.2	-3.7	1.72 H	211	62.3	2.2
4	*5500.00	118.7 PK			1.72 H	211	116.6	2.1
5	*5500.00	108.9 AV			1.72 H	211	106.8	2.1
6	11000.00	61.7 PK	74.0	-12.3	1.48 H	118	49.6	12.1
7	11000.00	48.2 AV	54.0	-5.8	1.48 H	118	36.1	12.1
8	#16500.00	45.3 PK	68.2	-22.9	3.17 H	143	31.9	13.4

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

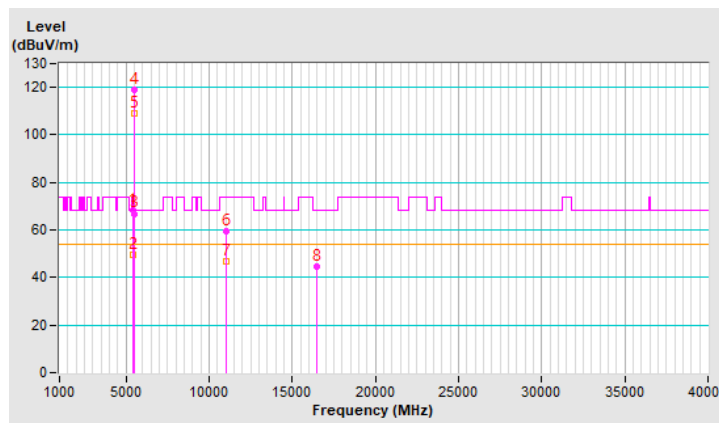


RF Mode	TX 802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	68.2 PK	74.0	-5.8	1.50 V	343	66.0	2.2
2	5460.00	49.6 AV	54.0	-4.4	1.50 V	343	47.4	2.2
3	#5470.00	66.9 PK	68.2	-1.3	1.50 V	343	64.7	2.2
4	*5500.00	119.1 PK			1.50 V	343	117.0	2.1
5	*5500.00	109.1 AV			1.50 V	343	107.0	2.1
6	11000.00	59.5 PK	74.0	-14.5	1.52 V	337	47.4	12.1
7	11000.00	46.8 AV	54.0	-7.2	1.52 V	337	34.7	12.1
8	#16500.00	44.8 PK	68.2	-23.4	1.53 V	149	31.4	13.4

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



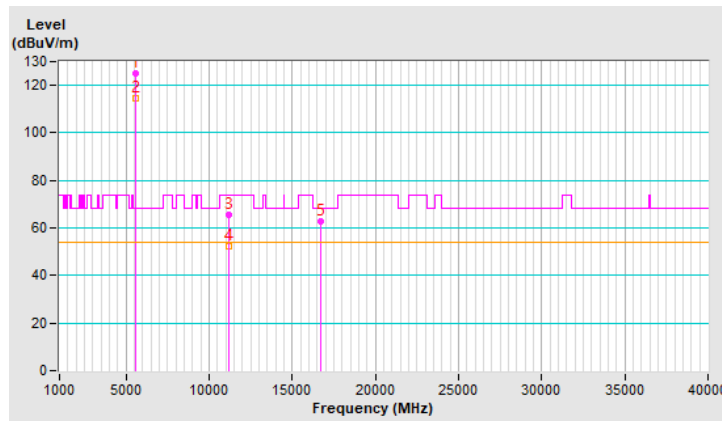
RF Mode	TX 802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	124.9 PK			1.67 H	212	122.7	2.2
2	*5580.00	114.8 AV			1.67 H	212	112.6	2.2
3	11160.00	65.5 PK	74.0	-8.5	1.46 H	111	53.6	11.9
4	11160.00	52.5 AV	54.0	-1.5	1.46 H	111	40.6	11.9
5	#16740.00	62.8 PK	68.2	-5.4	3.32 H	133	47.6	15.2

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

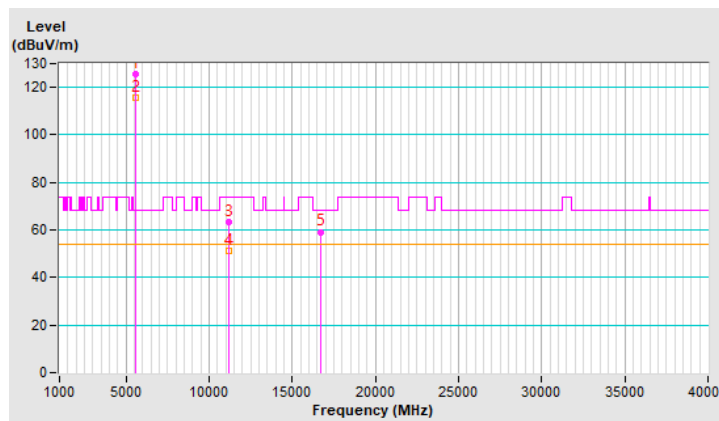


RF Mode	TX 802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	125.6 PK			1.04 V	265	123.4	2.2
2	*5580.00	115.6 AV			1.04 V	265	113.4	2.2
3	11160.00	63.5 PK	74.0	-10.5	1.48 V	330	51.6	11.9
4	11160.00	51.3 AV	54.0	-2.7	1.48 V	330	39.4	11.9
5	#16740.00	59.2 PK	68.2	-9.0	1.54 V	137	44.0	15.2

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



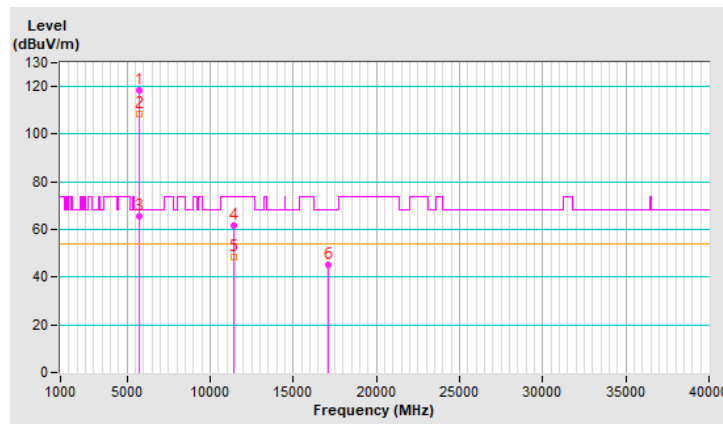
RF Mode	TX 802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	118.2 PK			1.45 H	227	115.9	2.3
2	*5700.00	108.6 AV			1.45 H	227	106.3	2.3
3	#5725.00	65.3 PK	68.2	-2.9	1.45 H	227	62.8	2.5
4	11400.00	61.9 PK	74.0	-12.1	1.43 H	119	49.7	12.2
5	11400.00	48.2 AV	54.0	-5.8	1.43 H	119	36.0	12.2
6	#17100.00	45.1 PK	68.2	-23.1	3.13 H	137	28.5	16.6

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

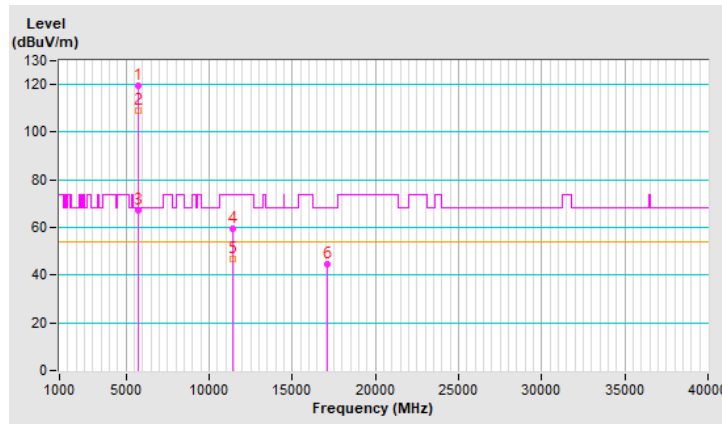


RF Mode	TX 802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	119.4 PK			1.17 V	265	117.1	2.3
2	*5700.00	109.0 AV			1.17 V	265	106.7	2.3
3	#5725.00	67.0 PK	68.2	-1.2	1.17 V	265	64.5	2.5
4	11400.00	59.4 PK	74.0	-14.6	1.52 V	340	47.2	12.2
5	11400.00	46.6 AV	54.0	-7.4	1.52 V	340	34.4	12.2
6	#17100.00	44.4 PK	68.2	-23.8	1.58 V	138	27.8	16.6

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



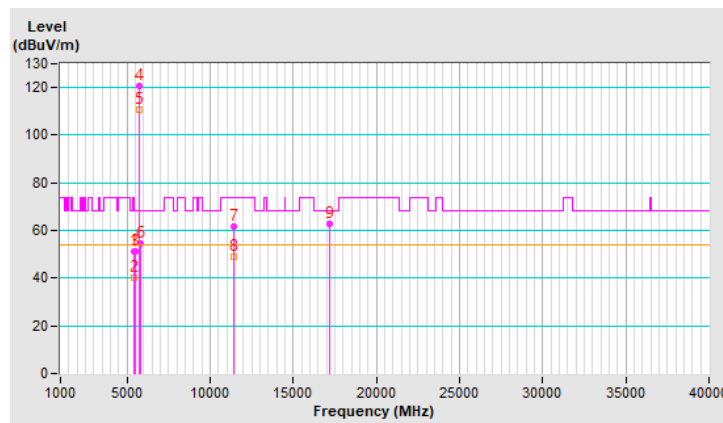
RF Mode	TX 802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	51.1 PK	74.0	-22.9	1.56 H	219	48.9	2.2
2	5460.00	40.2 AV	54.0	-13.8	1.56 H	219	38.0	2.2
3	#5470.00	51.3 PK	68.2	-16.9	1.56 H	219	49.1	2.2
4	*5720.00	120.8 PK			1.56 H	219	118.4	2.4
5	*5720.00	110.9 AV			1.56 H	219	108.5	2.4
6	#5850.00	54.6 PK	68.2	-13.6	1.56 H	219	51.7	2.9
7	11440.00	61.8 PK	74.0	-12.2	1.58 H	221	49.6	12.2
8	11440.00	49.1 AV	54.0	-4.9	1.58 H	221	36.9	12.2
9	#17160.00	63.0 PK	68.2	-5.2	2.49 H	146	46.5	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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

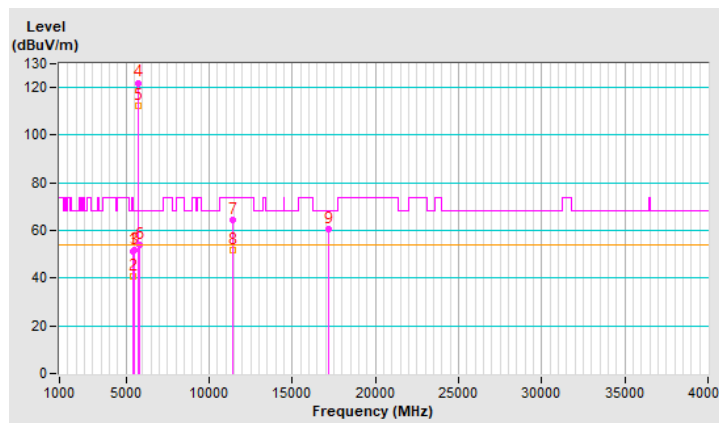


RF Mode	TX 802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	51.5 PK	74.0	-22.5	1.25 V	255	49.3	2.2
2	5460.00	40.5 AV	54.0	-13.5	1.25 V	255	38.3	2.2
3	#5470.00	51.9 PK	68.2	-16.3	1.25 V	255	49.7	2.2
4	*5720.00	122.0 PK			1.25 V	255	119.6	2.4
5	*5720.00	112.6 AV			1.25 V	255	110.2	2.4
6	#5850.00	54.2 PK	68.2	-14.0	1.25 V	255	51.3	2.9
7	11440.00	64.5 PK	74.0	-9.5	1.51 V	19	52.3	12.2
8	11440.00	52.0 AV	54.0	-2.0	1.51 V	19	39.8	12.2
9	#17160.00	60.4 PK	68.2	-7.8	2.63 V	145	43.9	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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.



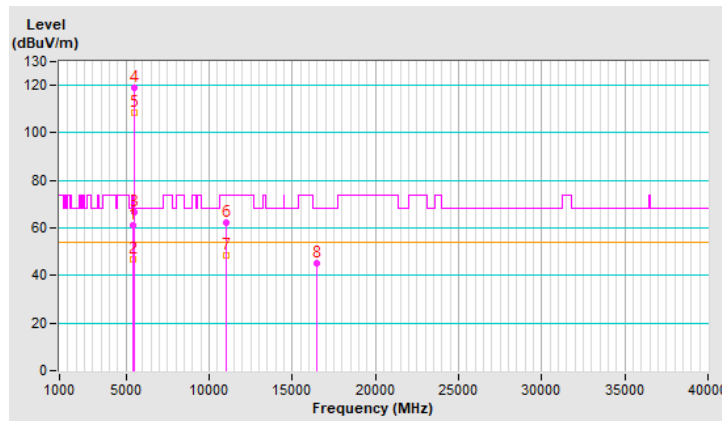
RF Mode	TX 802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	61.3 PK	74.0	-12.7	2.11 H	235	59.1	2.2
2	5460.00	47.0 AV	54.0	-7.0	2.11 H	235	44.8	2.2
3	#5466.60	66.7 PK	68.2	-1.5	2.11 H	235	64.5	2.2
4	*5500.00	119.2 PK			2.11 H	235	117.1	2.1
5	*5500.00	108.3 AV			2.11 H	235	106.2	2.1
6	11000.00	62.1 PK	74.0	-11.9	1.45 H	117	50.0	12.1
7	11000.00	48.6 AV	54.0	-5.4	1.45 H	117	36.5	12.1
8	#16500.00	45.1 PK	68.2	-23.1	3.16 H	138	31.7	13.4

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

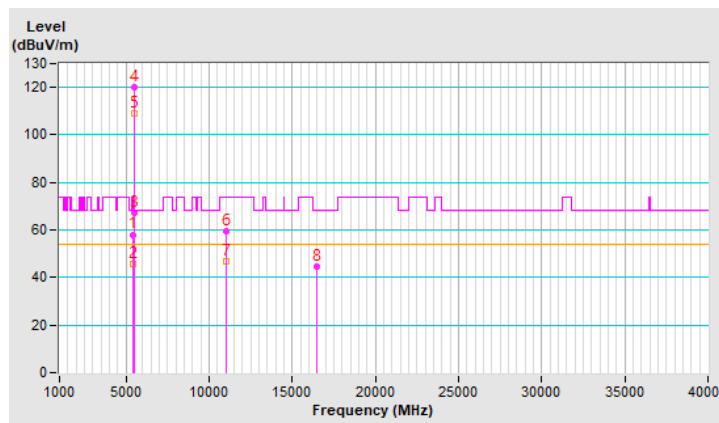


RF Mode	TX 802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	5456.80	58.1 PK	74.0	-15.9	1.51 V	101	55.9	2.2
2	5456.80	45.8 AV	54.0	-8.2	1.51 V	101	43.6	2.2
3	#5466.60	67.1 PK	68.2	-1.1	1.51 V	101	64.9	2.2
4	*5500.00	120.1 PK			1.51 V	101	118.0	2.1
5	*5500.00	108.8 AV			1.51 V	101	106.7	2.1
6	11000.00	59.4 PK	74.0	-14.6	1.54 V	348	47.3	12.1
7	11000.00	46.7 AV	54.0	-7.3	1.54 V	348	34.6	12.1
8	#16500.00	44.6 PK	68.2	-23.6	1.57 V	145	31.2	13.4

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



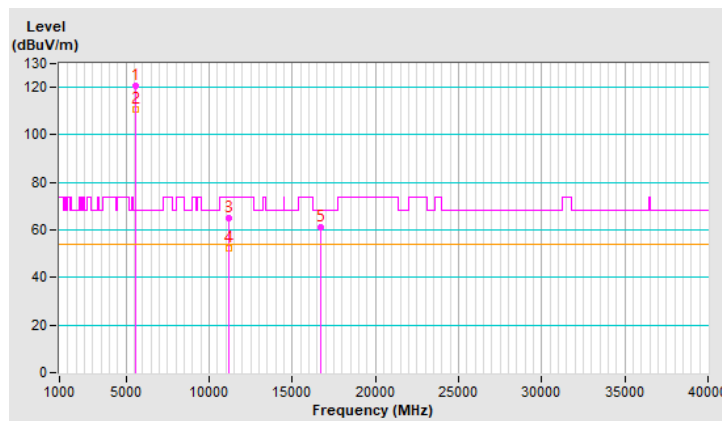
RF Mode	TX 802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	120.6 PK			1.97 H	228	118.4	2.2
2	*5580.00	110.6 AV			1.97 H	228	108.4	2.2
3	11160.00	65.1 PK	74.0	-8.9	1.37 H	123	53.2	11.9
4	11160.00	52.3 AV	54.0	-1.7	1.37 H	123	40.4	11.9
5	#16740.00	61.2 PK	68.2	-7.0	3.05 H	119	46.0	15.2

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

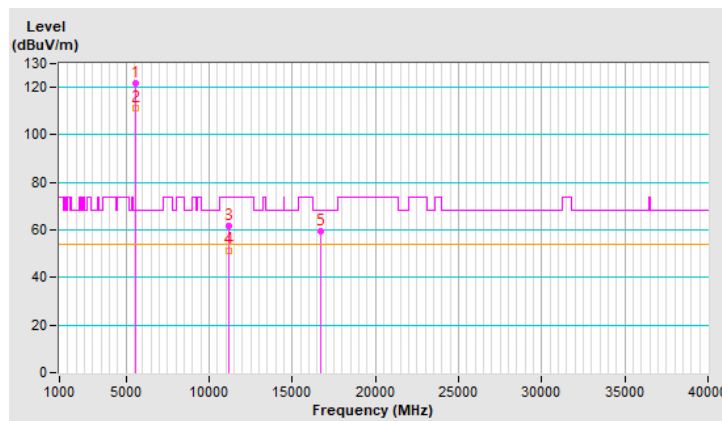


RF Mode	TX 802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	121.5 PK			1.54 V	89	119.3	2.2
2	*5580.00	111.3 AV			1.54 V	89	109.1	2.2
3	11160.00	61.5 PK	74.0	-12.5	1.80 V	224	49.6	11.9
4	11160.00	51.5 AV	54.0	-2.5	1.80 V	224	39.6	11.9
5	#16740.00	59.5 PK	68.2	-8.7	1.60 V	150	44.3	15.2

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



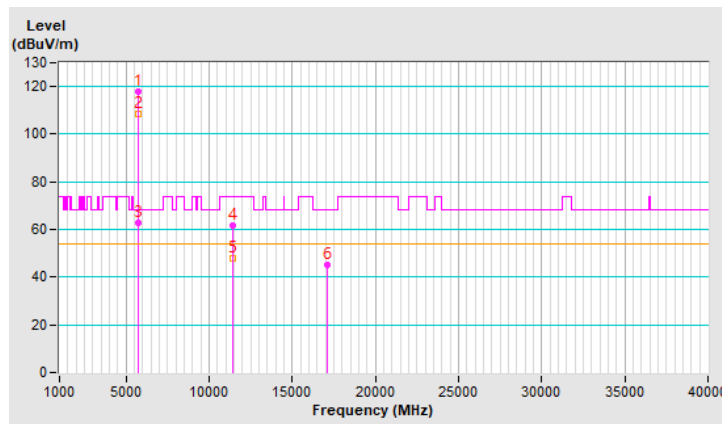
RF Mode	TX 802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	118.0 PK			2.27 H	220	115.7	2.3
2	*5700.00	108.3 AV			2.27 H	220	106.0	2.3
3	#5725.00	62.7 PK	68.2	-5.5	2.27 H	220	60.2	2.5
4	11400.00	61.5 PK	74.0	-12.5	1.43 H	121	49.3	12.2
5	11400.00	48.0 AV	54.0	-6.0	1.43 H	121	35.8	12.2
6	#17100.00	45.2 PK	68.2	-23.0	3.09 H	144	28.6	16.6

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

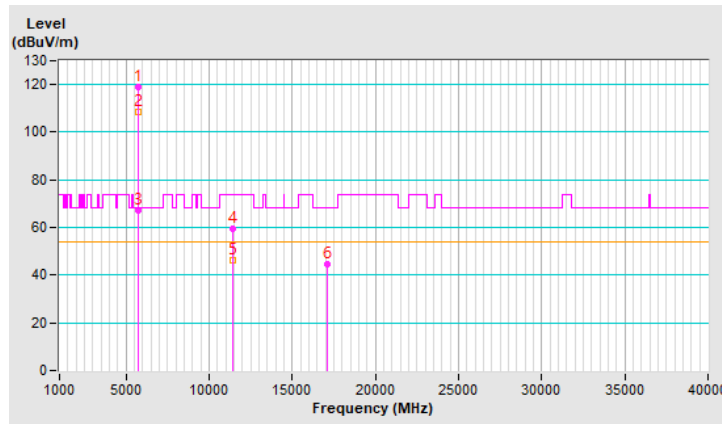


RF Mode	TX 802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	118.8 PK			1.56 V	99	116.5	2.3
2	*5700.00	108.7 AV			1.56 V	99	106.4	2.3
3	#5725.00	67.1 PK	68.2	-1.1	1.56 V	99	64.6	2.5
4	11400.00	59.6 PK	74.0	-14.4	1.50 V	329	47.4	12.2
5	11400.00	46.5 AV	54.0	-7.5	1.50 V	329	34.3	12.2
6	#17100.00	44.6 PK	68.2	-23.6	1.61 V	134	28.0	16.6

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



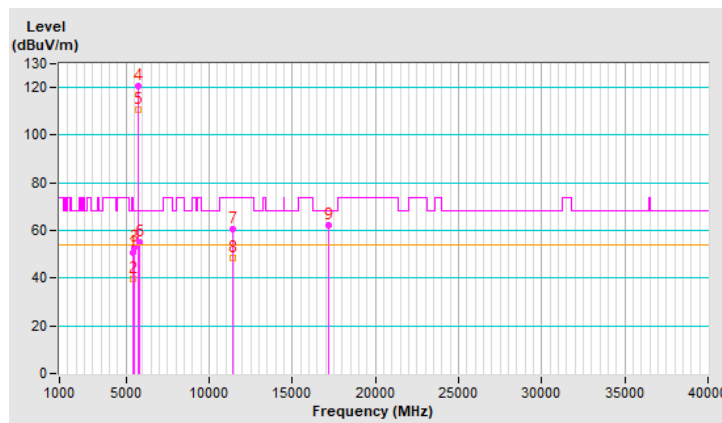
RF Mode	TX 802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	50.6 PK	74.0	-23.4	2.30 H	222	48.4	2.2
2	5460.00	39.8 AV	54.0	-14.2	2.30 H	222	37.6	2.2
3	#5470.00	52.7 PK	68.2	-15.5	2.30 H	222	50.5	2.2
4	*5720.00	120.8 PK			2.30 H	222	118.4	2.4
5	*5720.00	110.9 AV			2.30 H	222	108.5	2.4
6	#5850.00	55.1 PK	68.2	-13.1	2.30 H	222	52.2	2.9
7	11440.00	60.5 PK	74.0	-13.5	1.53 H	206	48.3	12.2
8	11440.00	48.7 AV	54.0	-5.3	1.53 H	206	36.5	12.2
9	#17160.00	62.4 PK	68.2	-5.8	2.19 H	213	45.9	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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

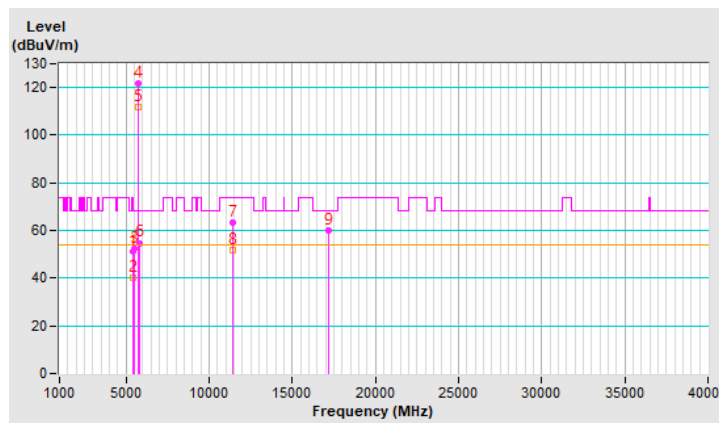


RF Mode	TX 802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	51.4 PK	74.0	-22.6	1.43 V	107	49.2	2.2
2	5460.00	40.3 AV	54.0	-13.7	1.43 V	107	38.1	2.2
3	#5470.00	52.2 PK	68.2	-16.0	1.43 V	107	50.0	2.2
4	*5720.00	121.9 PK			1.43 V	107	119.5	2.4
5	*5720.00	111.6 AV			1.43 V	107	109.2	2.4
6	#5850.00	54.8 PK	68.2	-13.4	1.43 V	107	51.9	2.9
7	11440.00	63.1 PK	74.0	-10.9	1.41 V	24	50.9	12.2
8	11440.00	52.0 AV	54.0	-2.0	1.41 V	24	39.8	12.2
9	#17160.00	59.8 PK	68.2	-8.4	1.60 V	236	43.3	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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

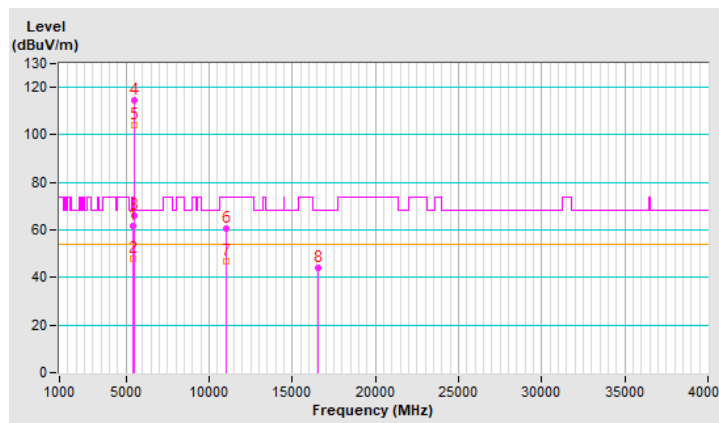


RF Mode	TX 802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	5456.00	61.8 PK	74.0	-12.2	2.08 H	201	59.6	2.2
2	5456.00	48.1 AV	54.0	-5.9	2.08 H	201	45.9	2.2
3	#5470.00	66.2 PK	68.2	-2.0	2.08 H	201	64.0	2.2
4	*5510.00	114.7 PK			2.08 H	201	112.6	2.1
5	*5510.00	104.2 AV			2.08 H	201	102.1	2.1
6	11020.00	60.5 PK	74.0	-13.5	1.55 H	190	48.4	12.1
7	11020.00	46.8 AV	54.0	-7.2	1.55 H	190	34.7	12.1
8	#16530.00	44.0 PK	68.2	-24.2	2.26 H	223	30.3	13.7

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

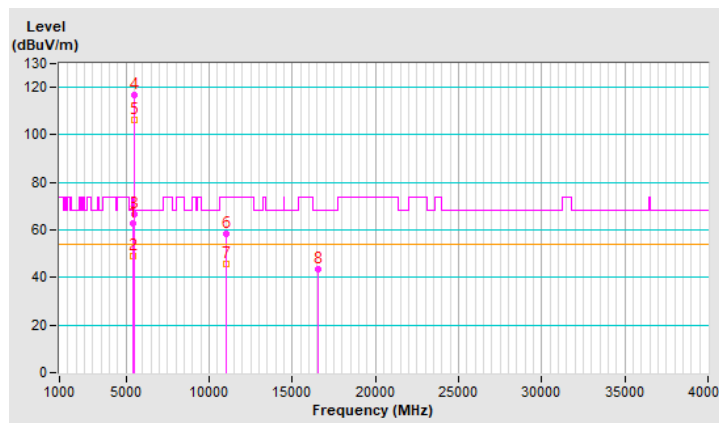


RF Mode	TX 802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	5457.50	63.0 PK	74.0	-11.0	1.39 V	81	60.8	2.2
2	5457.50	49.2 AV	54.0	-4.8	1.39 V	81	47.0	2.2
3	#5467.00	66.5 PK	68.2	-1.7	1.39 V	81	64.3	2.2
4	*5510.00	116.7 PK			1.39 V	81	114.6	2.1
5	*5510.00	106.4 AV			1.39 V	81	104.3	2.1
6	11020.00	58.3 PK	74.0	-15.7	1.43 V	34	46.2	12.1
7	11020.00	45.6 AV	54.0	-8.4	1.43 V	34	33.5	12.1
8	#16530.00	43.5 PK	68.2	-24.7	1.55 V	243	29.8	13.7

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



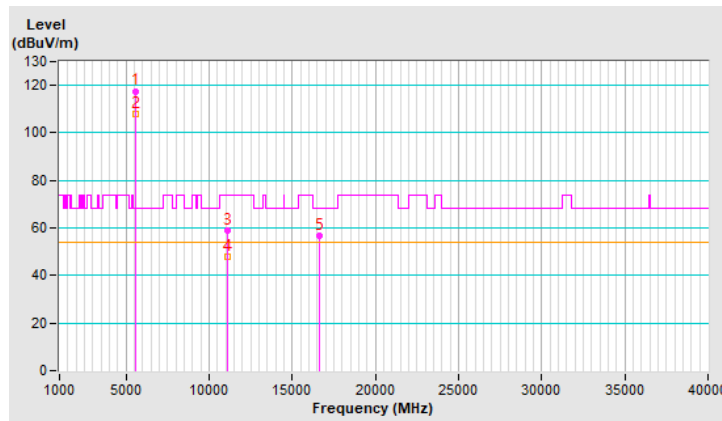
RF Mode	TX 802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	*5550.00	117.6 PK			2.00 H	197	115.4	2.2
2	*5550.00	107.8 AV			2.00 H	197	105.6	2.2
3	11100.00	59.0 PK	74.0	-15.0	1.55 H	185	47.1	11.9
4	11100.00	47.9 AV	54.0	-6.1	1.55 H	185	36.0	11.9
5	#16650.00	56.9 PK	68.2	-11.3	2.22 H	237	42.2	14.7

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

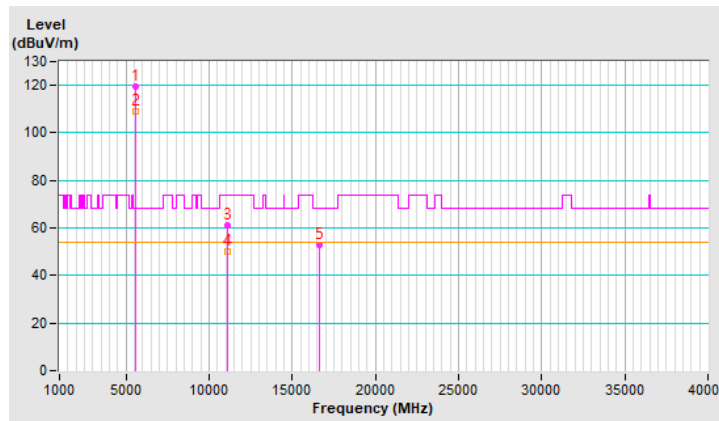


RF Mode	TX 802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	*5550.00	119.3 PK			1.43 V	90	117.1	2.2
2	*5550.00	109.0 AV			1.43 V	90	106.8	2.2
3	11100.00	61.2 PK	74.0	-12.8	1.46 V	5	49.3	11.9
4	11100.00	49.9 AV	54.0	-4.1	1.46 V	5	38.0	11.9
5	#16650.00	52.8 PK	68.2	-15.4	1.44 V	256	38.1	14.7

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



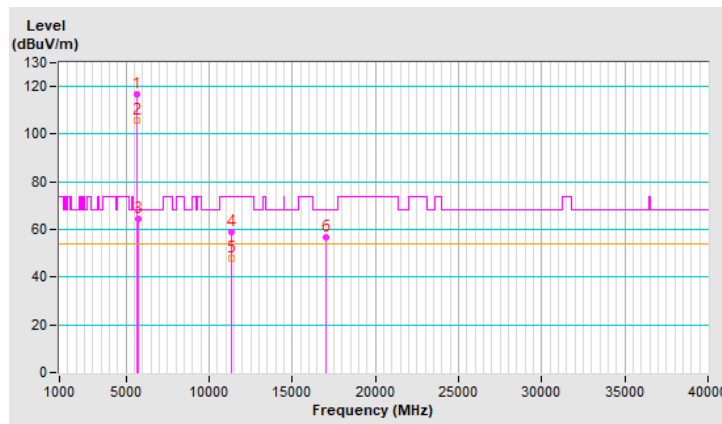
RF Mode	TX 802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	*5670.00	116.8 PK			2.05 H	205	114.6	2.2
2	*5670.00	105.8 AV			2.05 H	205	103.6	2.2
3	#5725.00	64.3 PK	68.2	-3.9	2.05 H	205	61.8	2.5
4	11340.00	58.7 PK	74.0	-15.3	1.60 H	192	46.6	12.1
5	11340.00	47.7 AV	54.0	-6.3	1.60 H	192	35.6	12.1
6	#17010.00	56.9 PK	68.2	-11.3	2.30 H	224	40.4	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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

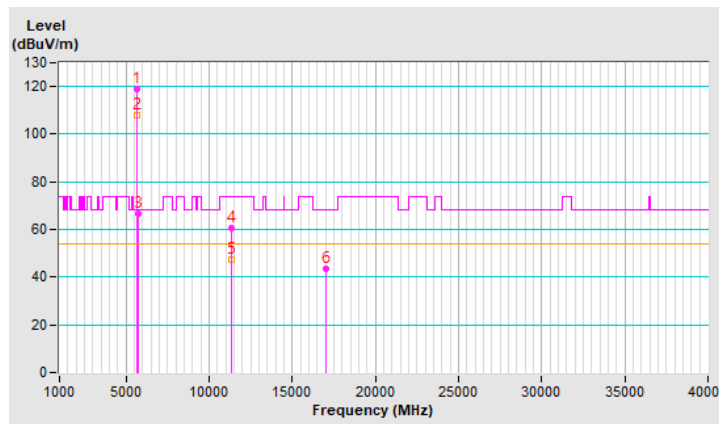


RF Mode	TX 802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	*5670.00	118.8 PK			1.49 V	90	116.6	2.2
2	*5670.00	107.9 AV			1.49 V	90	105.7	2.2
3	#5725.00	66.6 PK	68.2	-1.6	1.49 V	90	64.1	2.5
4	11340.00	60.6 PK	74.0	-13.4	1.48 V	15	48.5	12.1
5	11340.00	47.5 AV	54.0	-6.5	1.48 V	15	35.4	12.1
6	#17010.00	43.5 PK	68.2	-24.7	1.54 V	255	27.0	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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



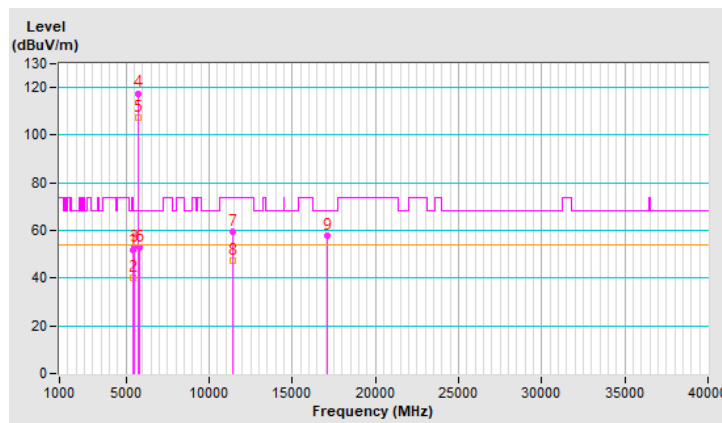
RF Mode	TX 802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	51.7 PK	74.0	-22.3	2.04 H	186	49.5	2.2
2	5460.00	40.4 AV	54.0	-13.6	2.04 H	186	38.2	2.2
3	#5470.00	52.8 PK	68.2	-15.4	2.04 H	186	50.6	2.2
4	*5710.00	117.6 PK			2.04 H	186	115.2	2.4
5	*5710.00	107.6 AV			2.04 H	186	105.2	2.4
6	#5850.00	52.9 PK	68.2	-15.3	2.04 H	186	50.0	2.9
7	11420.00	59.2 PK	74.0	-14.8	1.51 H	188	46.9	12.3
8	11420.00	47.2 AV	54.0	-6.8	1.51 H	188	34.9	12.3
9	#17130.00	57.6 PK	68.2	-10.6	2.25 H	213	41.0	16.6

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

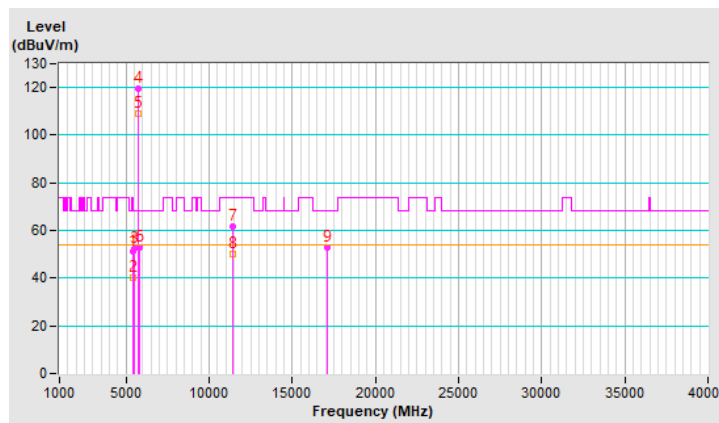


RF Mode	TX 802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	51.4 PK	74.0	-22.6	1.40 V	101	49.2	2.2
2	5460.00	40.0 AV	54.0	-14.0	1.40 V	101	37.8	2.2
3	#5470.00	52.5 PK	68.2	-15.7	1.40 V	101	50.3	2.2
4	*5710.00	119.7 PK			1.40 V	101	117.3	2.4
5	*5710.00	109.3 AV			1.40 V	101	106.9	2.4
6	#5850.00	53.1 PK	68.2	-15.1	1.40 V	101	50.2	2.9
7	11420.00	61.5 PK	74.0	-12.5	1.47 V	24	49.2	12.3
8	11420.00	50.2 AV	54.0	-3.8	1.47 V	24	37.9	12.3
9	#17130.00	52.9 PK	68.2	-15.3	1.51 V	249	36.3	16.6

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



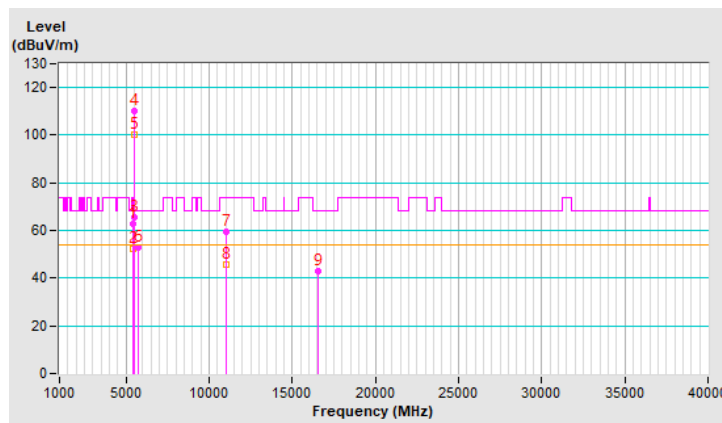
RF Mode	TX 802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	62.8 PK	74.0	-11.2	1.51 H	217	60.6	2.2
2	5460.00	52.3 AV	54.0	-1.7	1.51 H	217	50.1	2.2
3	#5470.00	65.5 PK	68.2	-2.7	1.51 H	217	63.3	2.2
4	*5530.00	110.3 PK			1.51 H	217	108.2	2.1
5	*5530.00	100.2 AV			1.51 H	217	98.1	2.1
6	#5754.30	53.1 PK	68.2	-15.1	1.51 H	217	50.5	2.6
7	11060.00	59.4 PK	74.0	-14.6	1.58 H	192	47.4	12.0
8	11060.00	45.7 AV	54.0	-8.3	1.58 H	192	33.7	12.0
9	#16590.00	43.1 PK	68.2	-25.1	2.21 H	235	28.8	14.3

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

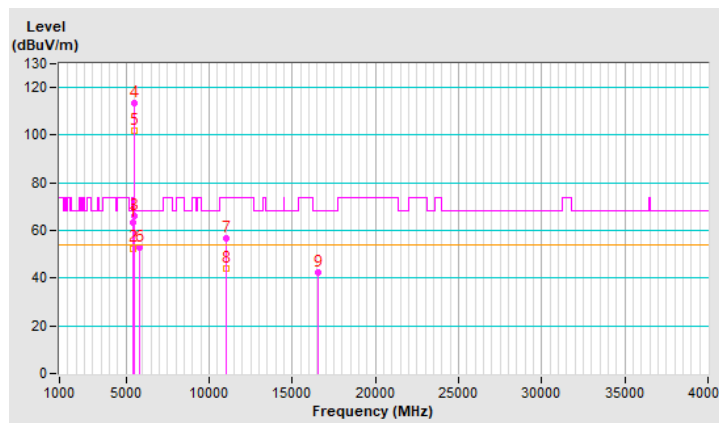


RF Mode	TX 802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	63.2 PK	74.0	-10.8	1.57 V	69	61.0	2.2
2	5460.00	52.6 AV	54.0	-1.4	1.57 V	69	50.4	2.2
3	#5470.00	66.0 PK	68.2	-2.2	1.57 V	69	63.8	2.2
4	*5530.00	113.2 PK			1.57 V	69	111.1	2.1
5	*5530.00	101.7 AV			1.57 V	69	99.6	2.1
6	#5827.00	52.7 PK	68.2	-15.5	1.57 V	69	49.9	2.8
7	11060.00	56.8 PK	74.0	-17.2	1.60 V	26	44.8	12.0
8	11060.00	43.9 AV	54.0	-10.1	1.60 V	26	31.9	12.0
9	#16590.00	42.6 PK	68.2	-25.6	1.39 V	268	28.3	14.3

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.



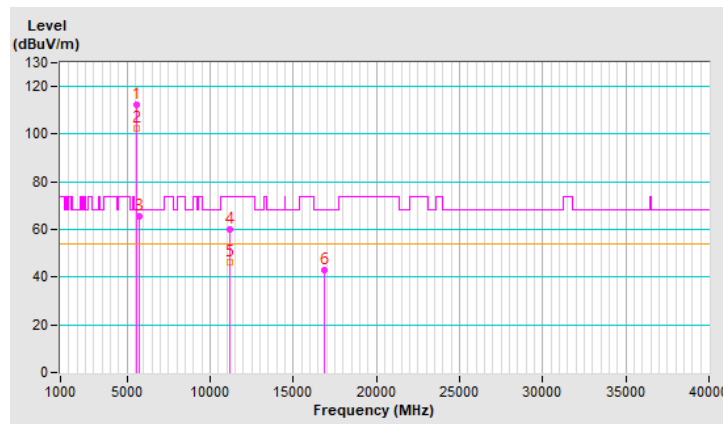
RF Mode	TX 802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	*5610.00	112.3 PK			1.49 H	164	110.1	2.2
2	*5610.00	102.3 AV			1.49 H	164	100.1	2.2
3	#5725.00	65.5 PK	68.2	-2.7	1.49 H	164	63.0	2.5
4	11220.00	60.1 PK	74.0	-13.9	1.50 H	208	48.0	12.1
5	11220.00	46.1 AV	54.0	-7.9	1.50 H	208	34.0	12.1
6	#16830.00	42.8 PK	68.2	-25.4	2.25 H	244	27.1	15.7

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

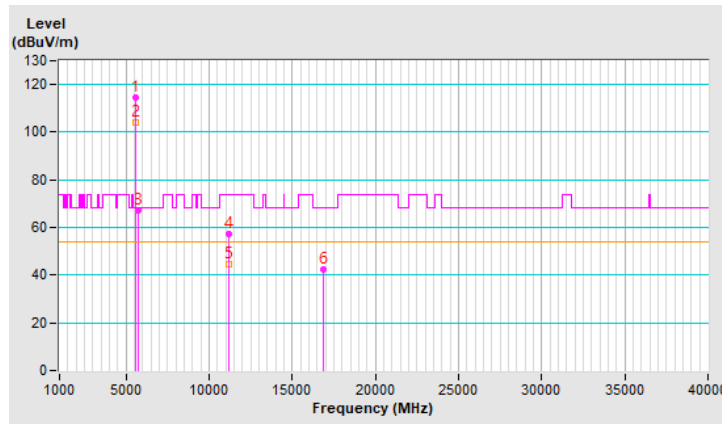


RF Mode	TX 802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	*5610.00	114.8 PK			1.46 V	102	112.6	2.2
2	*5610.00	103.9 AV			1.46 V	102	101.7	2.2
3	#5725.00	67.0 PK	68.2	-1.2	1.46 V	102	64.5	2.5
4	11220.00	57.1 PK	74.0	-16.9	1.60 V	17	45.0	12.1
5	11220.00	44.4 AV	54.0	-9.6	1.60 V	17	32.3	12.1
6	#16830.00	42.3 PK	68.2	-25.9	1.39 V	256	26.6	15.7

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



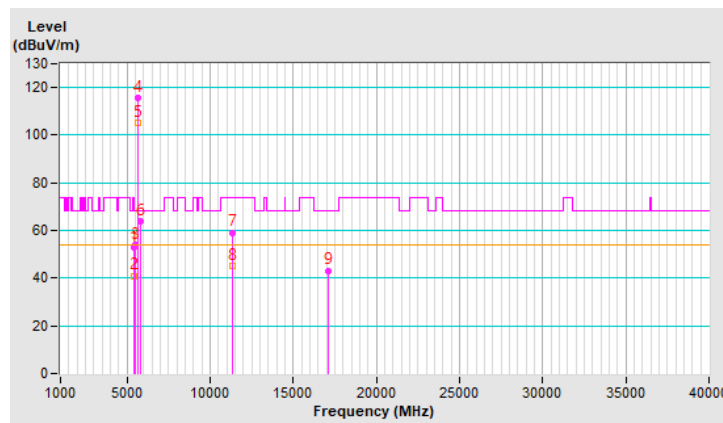
RF Mode	TX 802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	52.8 PK	74.0	-21.2	1.39 H	197	50.6	2.2
2	5460.00	41.0 AV	54.0	-13.0	1.39 H	197	38.8	2.2
3	#5470.00	54.0 PK	68.2	-14.2	1.39 H	197	51.8	2.2
4	*5690.00	115.8 PK			1.39 H	197	113.5	2.3
5	*5690.00	105.1 AV			1.39 H	197	102.8	2.3
6	#5850.00	63.9 PK	68.2	-4.3	1.39 H	197	61.0	2.9
7	11380.00	59.2 PK	74.0	-14.8	1.56 H	186	47.0	12.2
8	11380.00	45.3 AV	54.0	-8.7	1.56 H	186	33.1	12.2
9	#17070.00	43.2 PK	68.2	-25.0	2.20 H	239	26.6	16.6

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, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

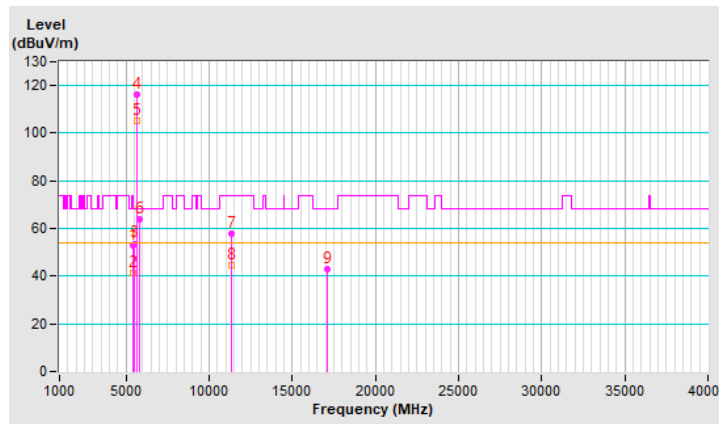


RF Mode	TX 802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	53.1 PK	74.0	-20.9	1.47 V	91	50.9	2.2
2	5460.00	41.2 AV	54.0	-12.8	1.47 V	91	39.0	2.2
3	#5470.00	53.7 PK	68.2	-14.5	1.47 V	91	51.5	2.2
4	*5690.00	116.3 PK			1.47 V	91	114.0	2.3
5	*5690.00	105.0 AV			1.47 V	91	102.7	2.3
6	#5850.00	64.0 PK	68.2	-4.2	1.47 V	91	61.1	2.9
7	11380.00	57.6 PK	74.0	-16.4	1.60 V	32	45.4	12.2
8	11380.00	44.8 AV	54.0	-9.2	1.60 V	32	32.6	12.2
9	#17070.00	43.1 PK	68.2	-25.1	1.47 V	258	26.5	16.6

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.



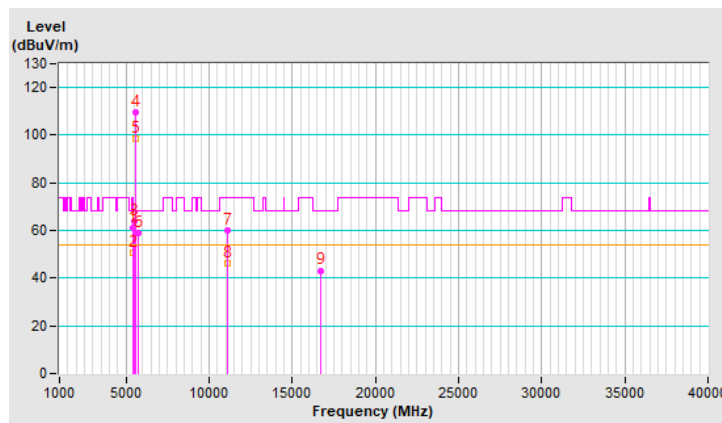
RF Mode	TX 802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	61.3 PK	74.0	-12.7	1.47 H	215	59.1	2.2
2	5460.00	50.5 AV	54.0	-3.5	1.47 H	215	48.3	2.2
3	#5470.00	64.0 PK	68.2	-4.2	1.47 H	215	61.8	2.2
4	*5570.00	109.6 PK			1.47 H	215	107.4	2.2
5	*5570.00	98.6 AV			1.47 H	215	96.4	2.2
6	#5731.70	58.7 PK	68.2	-9.5	1.47 H	215	56.2	2.5
7	11140.00	59.9 PK	74.0	-14.1	1.52 H	191	48.0	11.9
8	11140.00	46.0 AV	54.0	-8.0	1.52 H	191	34.1	11.9
9	#16710.00	43.2 PK	68.2	-25.0	2.28 H	238	28.2	15.0

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, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

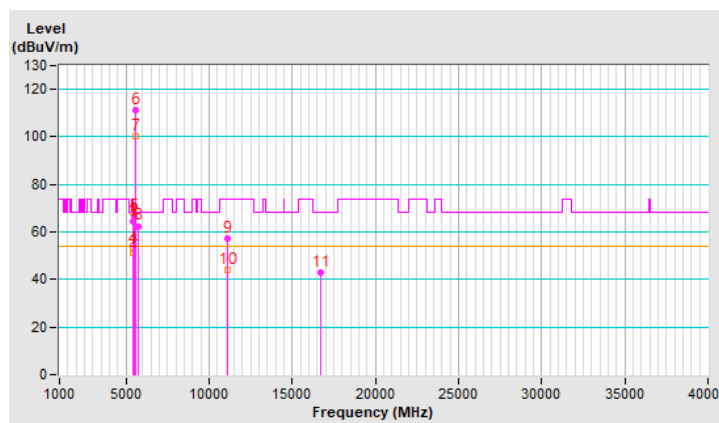


RF Mode	TX 802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

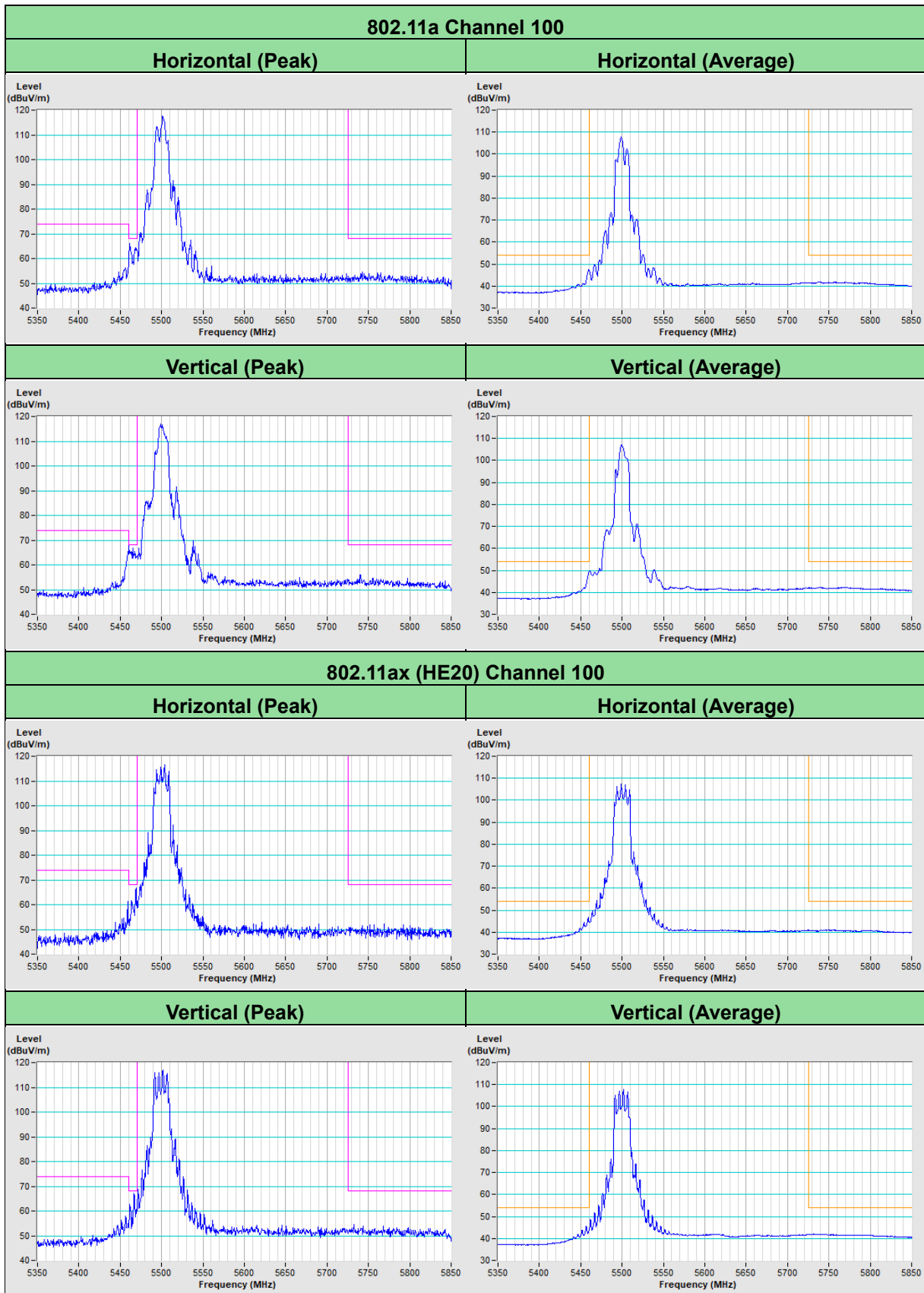
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5446.20	64.6 PK	74.0	-9.4	1.46 V	96	62.5	2.1
2	5446.20	51.3 AV	54.0	-2.7	1.46 V	96	49.2	2.1
3	5457.00	64.6 PK	74.0	-9.4	1.46 V	96	62.4	2.2
4	5457.00	52.8 AV	54.0	-1.2	1.46 V	96	50.6	2.2
5	#5463.70	66.7 PK	68.2	-1.5	1.46 V	96	64.5	2.2
6	*5570.00	111.1 PK			1.46 V	96	108.9	2.2
7	*5570.00	100.3 AV			1.46 V	96	98.1	2.2
8	#5732.25	62.5 PK	68.2	-5.7	1.46 V	96	60.0	2.5
9	11140.00	57.1 PK	74.0	-16.9	1.54 V	16	45.2	11.9
10	11140.00	44.3 AV	54.0	-9.7	1.54 V	16	32.4	11.9
11	#16710.00	42.8 PK	68.2	-25.4	1.41 V	267	27.8	15.0

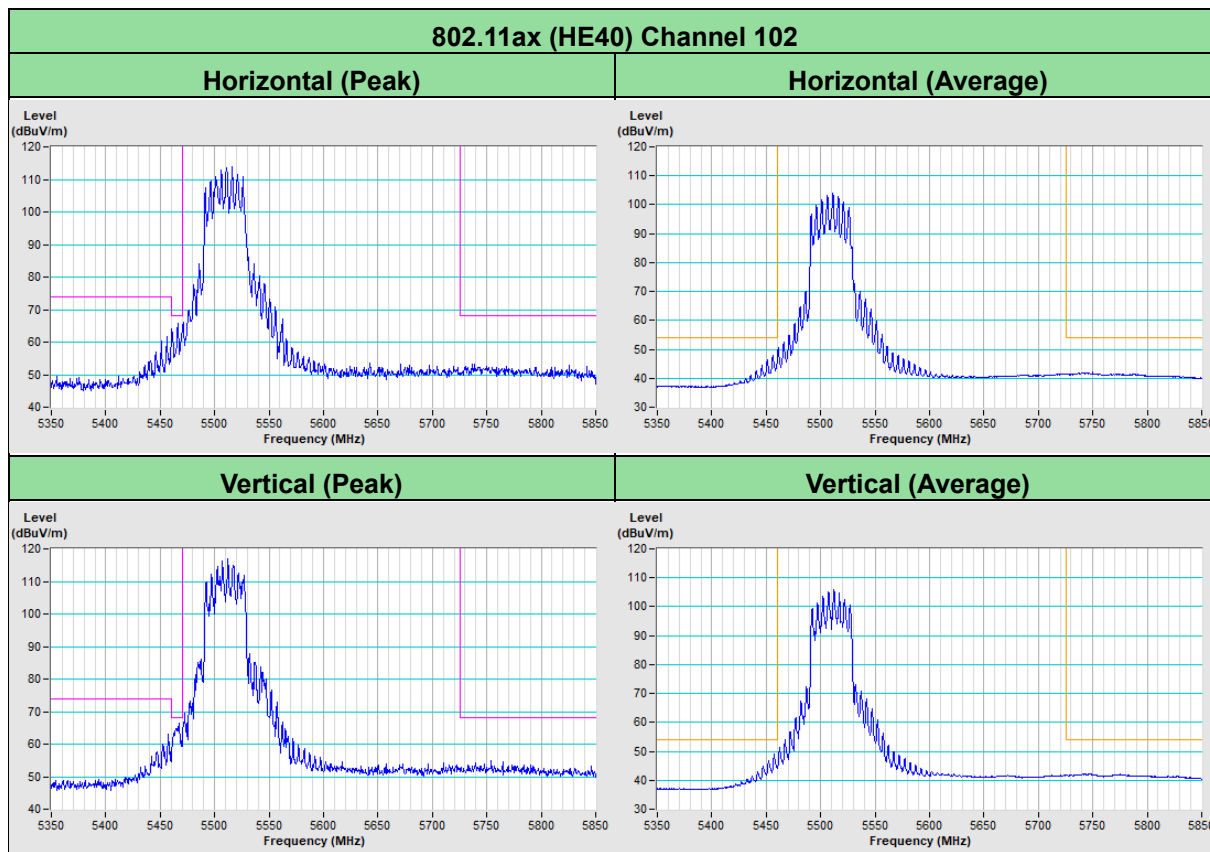
Remarks:

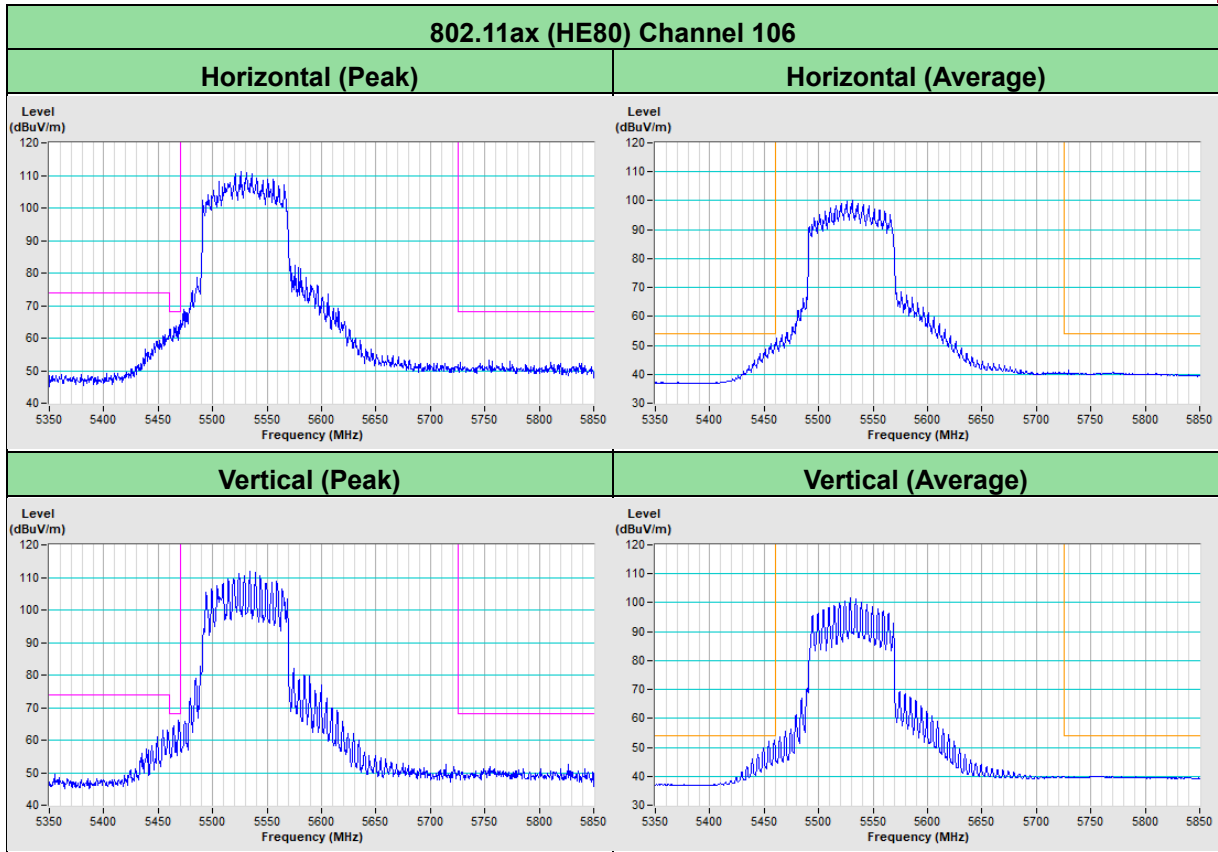
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency,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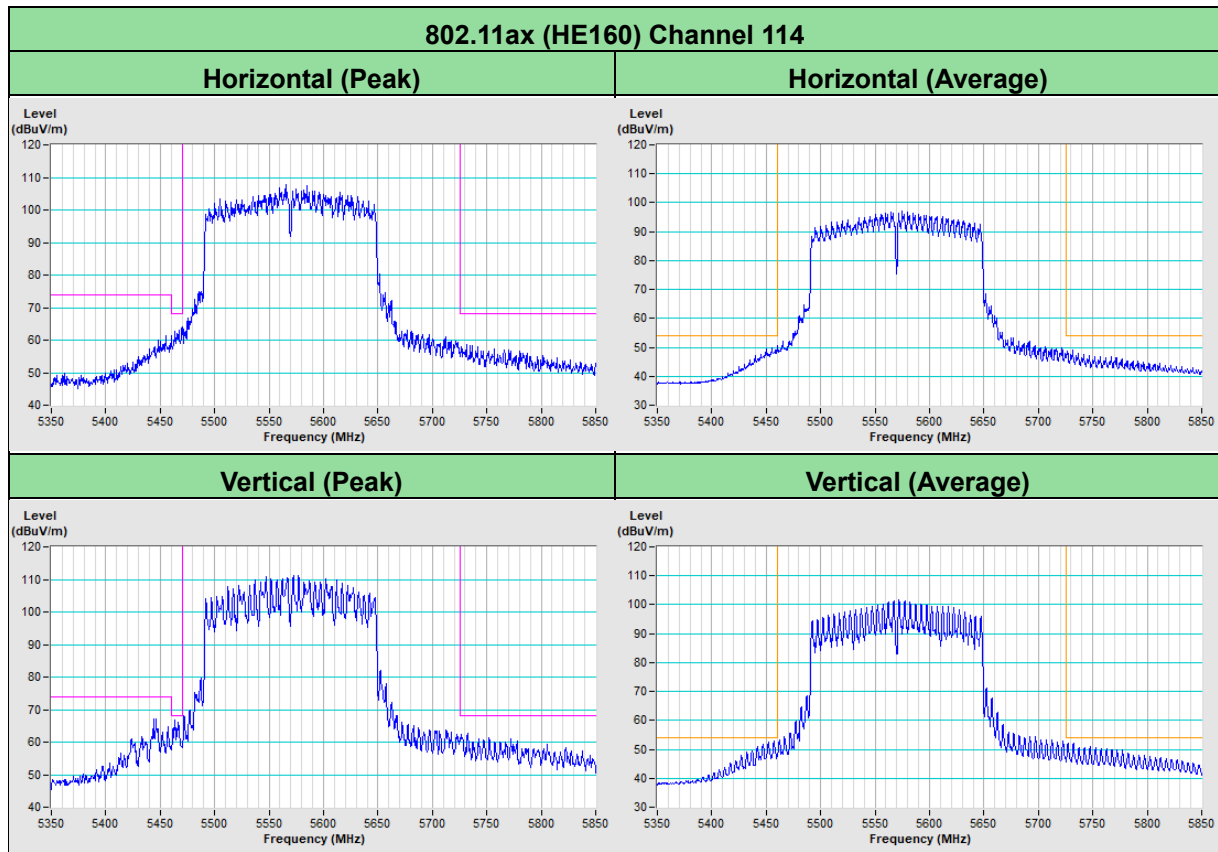


Mode C_Plot of Band Edge



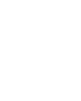






8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)



9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Web Site: <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

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