

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBCMA-WTW-P22070299-1

FCC ID: RAXWE7224443

Model No.: CE1000A

Received Date: 2022/4/25

Test Date: 2022/4/25 ~ 2022/9/29

Issued Date: 2022/11/16

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FCC Registration / 723255 / TW2022

Designation Number:

Approved by: _____, **Date:** 2022/11/16
May Chen / Manager

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Prepared by : Cherry Chuo / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBCMA-WTW-P22070299-1	Original release.	2022/11/16

1 Certificate

Product: Verizon Wi-Fi Extender

Brand: Verizon

Test Model: CE1000A

Sample Status: Engineering sample

Applicant: Arcadyan Technology Corporation

Test Date: 2022/4/25 ~ 2022/9/29

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)(1/2/3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1/2/3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -9.62 dB at 0.55234 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -5.1 dB at 732.47 MHz
15.407(b)(1/2/3/4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -1.0 dB at 5150.00, 5640.20 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:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.1 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 1733.3 Mbps 802.11ax: up to 2401.9 Mbps
Operating Frequency	5180 ~ 5240 MHz 5745 ~ 5825 MHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 9 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 4 802.11ac (VHT80), 802.11ax (HE80): 2
Output Power	CDD Mode 5180 ~ 5240 MHz : 617.987 mW (27.91 dBm) 5745 ~ 5825 MHz : 997.309 mW (29.99 dBm) Beamforming Mode 5180 ~ 5240 MHz : 484.226 mW (26.85 dBm) 5745 ~ 5825 MHz : 667.198 mW (28.24 dBm)
EUT Category	Indoor Access Point

Note:

1. The EUT must be supplied with a power adapter and following below table:

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 (Only for test, not for sale)		
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

2. The EUT uses following accessories.

RJ45 Cable	
Specification	
Signal Line : 3 m , non-shielded	

3. 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)

4. Simultaneously transmission condition.

Condition	Technology
1	WLAN (2.4 GHz) + WLAN (5 GHz) _Low Band + WLAN (5 GHz)_High Band
2	WLAN (2.4 GHz) + WLAN (5 GHz) _ Full Band

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

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna NO.	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type	Cable Loss (dB)	Cable Length (mm)
2.4G/5GL DB ANT 1	0.9	2.4~2.4835GHz	PIFA	ipex(MHF)	0.72	115
	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	0.5	2.4~2.4835GHz	PIFA	ipex(MHF)	0.88	140
	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	1.3	2.4~2.4835GHz	PIFA	ipex(MHF)	0.71	113
	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	0.3	2.4~2.4835GHz	PIFA	ipex(MHF)	0.61	98
	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	1.3	5.47~5.725GHz	PIFA	ipex(MHF)	1.26	140
	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	3.2	5.47~5.725GHz	PIFA	ipex(MHF)	1.26	140
	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	1.9	5.47~5.725GHz	PIFA	ipex(MHF)	0.63	70
	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	0.2	5.47~5.725GHz	PIFA	ipex(MHF)	0.52	58
	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	0.15	5.15~5.25GHz	Dipole	ipex(MHF)	1.22	140
	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) and 802.11ax mode for 20 MHz (40 MHz, 80 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 ~ 5240MHz

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

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

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

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

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

Channel	Frequency
42	5210 MHz

FOR 5745 ~ 5825MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

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

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. The AC Adapter has the following models: 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. 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.
Worst Case:	1. AC Adapter For AC Power Conducted Emissions, Worst Condition: Lucent Trans:1A98-1250-02 2. AC Adapter For Unwanted Emissions below 1 GHz, Worst Condition: DELTA:ADH-60BW B 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).

Note: Partial RU (resource unit) configurations not supported.

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
RF Output Power	A	802.11a	CDD	36, 40, 48,	BPSK	6Mb/s
		802.11ac (VHT20)	CDD & Beamforming	36, 40, 48,	BPSK	MCS0
		802.11ac (VHT40)	CDD & Beamforming	38, 46	BPSK	MCS0
		802.11ac (VHT80)	CDD & Beamforming	42	BPSK	MCS0
		802.11ax (HE20)	CDD & Beamforming	36, 40, 48,	BPSK	MCS0
		802.11ax (HE40)	CDD & Beamforming	38, 46	BPSK	MCS0
		802.11ax (HE80)	CDD & Beamforming	42	BPSK	MCS0
	B	802.11a	CDD	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
		802.11ac (VHT20)	CDD & Beamforming	36, 40, 48, 149, 157, 165	BPSK	MCS0
		802.11ac (VHT40)	CDD & Beamforming	38, 46, 151, 159	BPSK	MCS0
		802.11ac (VHT80)	CDD & Beamforming	42, 155	BPSK	MCS0
		802.11ax (HE20)	CDD & Beamforming	36, 40, 48, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD & Beamforming	38, 46, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD & Beamforming	42, 155	BPSK	MCS0
	C	802.11a	CDD	149, 157, 165	BPSK	6Mb/s
		802.11ac (VHT20)	CDD & Beamforming	149, 157, 165	BPSK	MCS0
		802.11ac (VHT40)	CDD & Beamforming	151, 159	BPSK	MCS0
		802.11ac (VHT80)	CDD & Beamforming	155	BPSK	MCS0

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
		802.11ax (HE20)	CDD & Beamforming	149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD & Beamforming	151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD & Beamforming	155	BPSK	MCS0
6 dB Bandwidth	B	802.11a	CDD	149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	155	BPSK	MCS0
	C	802.11a	CDD	149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	155	BPSK	MCS0
Occupied Bandwidth / Power Spectral Density	A	802.11a	CDD	36, 40, 48,	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48,	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46	BPSK	MCS0
		802.11ax (HE80)	CDD	42,	BPSK	MCS0
	B	802.11a	CDD	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 155	BPSK	MCS0
	C	802.11a	CDD	149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	155	BPSK	MCS0
Frequency Stability	A	802.11a	-	36	un-modulation	-
	B	802.11a	-	36	un-modulation	-
	C	802.11a	-	149	un-modulation	-
AC Power Conducted Emissions	A	802.11ax (HE40)	CDD	46	BPSK	MCS0
	B	802.11ax (HE20)	CDD	165	BPSK	MCS0

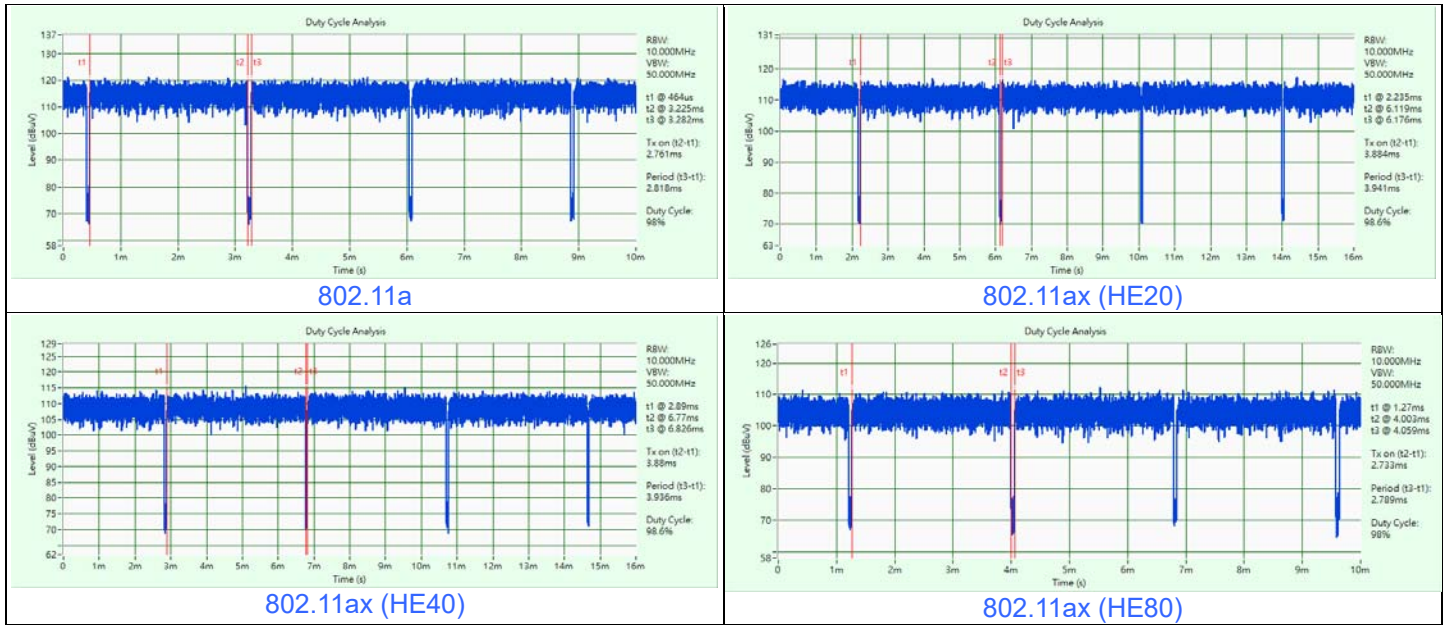
Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	
	C	802.11ax (HE80)	CDD	155	BPSK	MCS0	
Unwanted Emissions below 1 GHz	A	802.11ax (HE40)	CDD	46	BPSK	MCS0	
	B	802.11ax (HE20)	CDD	165	BPSK	MCS0	
	C	802.11ax (HE80)	CDD	155	BPSK	MCS0	
Unwanted Emissions above 1 GHz	A	802.11a	CDD	36, 40, 48,	BPSK	6Mb/s	
		802.11ax (HE20)	CDD	36, 40, 48,	BPSK	MCS0	
		802.11ax (HE40)	CDD	38, 46,	BPSK	MCS0	
		802.11ax (HE80)	CDD	42,	BPSK	MCS0	
	B	802.11a	CDD	36, 40, 48, 149, 157, 165	BPSK	6Mb/s	
		802.11ax (HE20)	CDD	36, 40, 48, 149, 157, 165	BPSK	MCS0	
		802.11ax (HE40)	CDD	38, 46, 151, 159	BPSK	MCS0	
		802.11ax (HE80)	CDD	42, 155	BPSK	MCS0	
	C	802.11a	CDD	149, 157, 165	BPSK	6Mb/s	
		802.11ax (HE20)	CDD	149, 157, 165	BPSK	MCS0	
		802.11ax (HE40)	CDD	151, 159	BPSK	MCS0	
		802.11ax (HE80)	CDD	155	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.

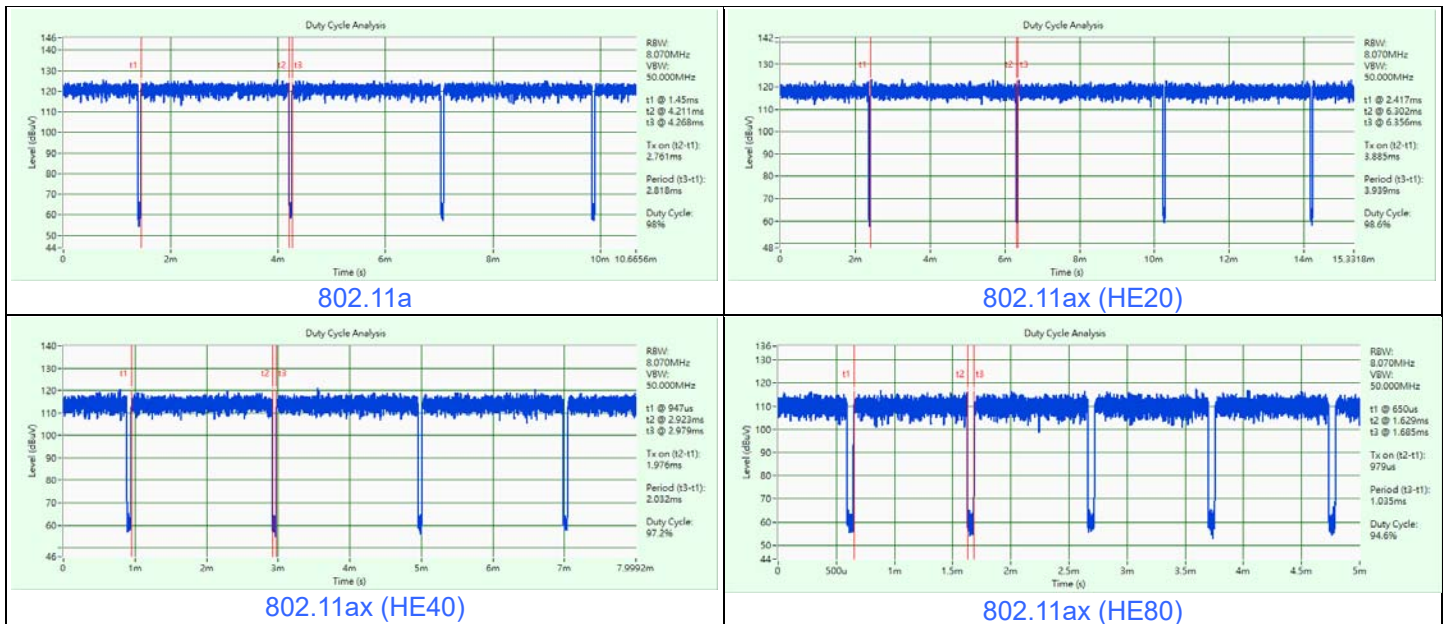
- 802.11a:** Duty cycle = $2.761 \text{ ms} / 2.818 \text{ ms} \times 100\% = 98.0\%$
- 802.11ax (HE20):** Duty cycle = $3.884 \text{ ms} / 3.941 \text{ ms} \times 100\% = 98.6\%$
- 802.11ax (HE40):** Duty cycle = $3.88 \text{ ms} / 3.936 \text{ ms} \times 100\% = 98.6\%$
- 802.11ax (HE80):** Duty cycle = $2.733 \text{ ms} / 2.789 \text{ ms} \times 100\% = 98.0\%$



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.

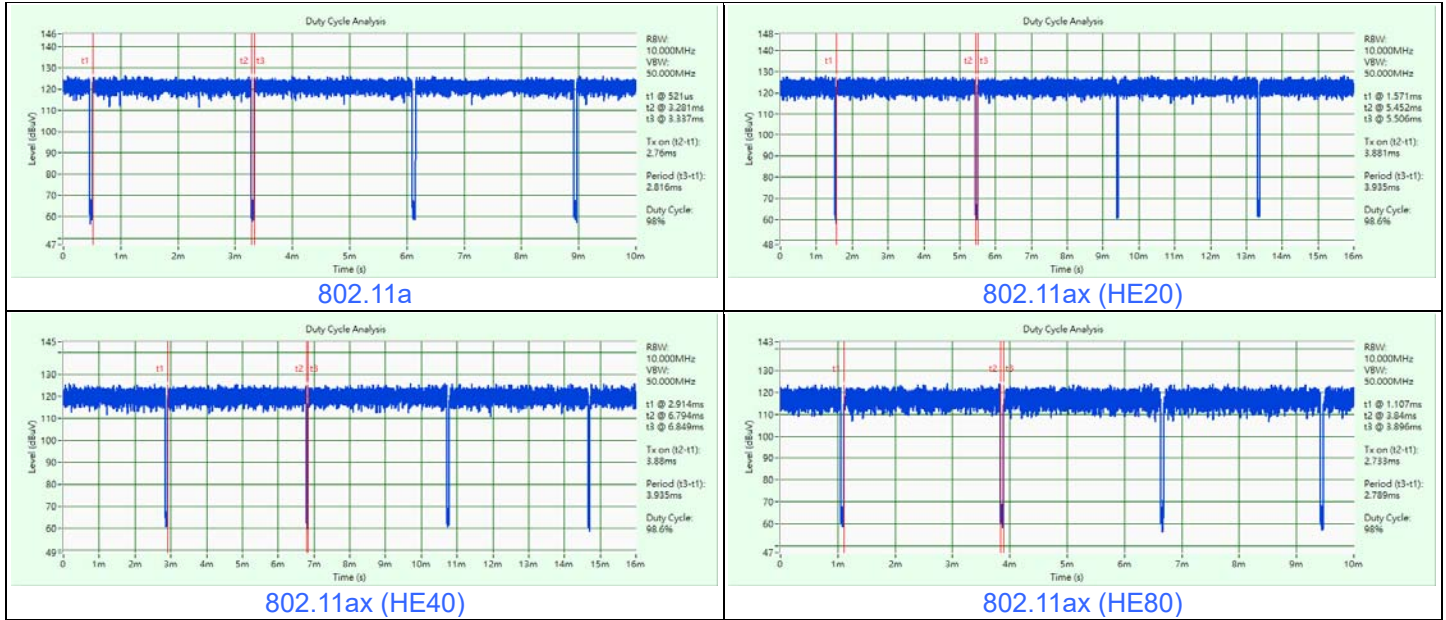
- 802.11a:** Duty cycle = $2.761 \text{ ms} / 2.818 \text{ ms} \times 100\% = 98.0\%$
- 802.11ax (HE20):** Duty cycle = $3.885 \text{ ms} / 3.939 \text{ ms} \times 100\% = 98.6\%$
- 802.11ax (HE40):** Duty cycle = $1.976 \text{ ms} / 2.032 \text{ ms} \times 100\% = 97.2\%$, duty factor = $10 \cdot \log(1/\text{Duty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

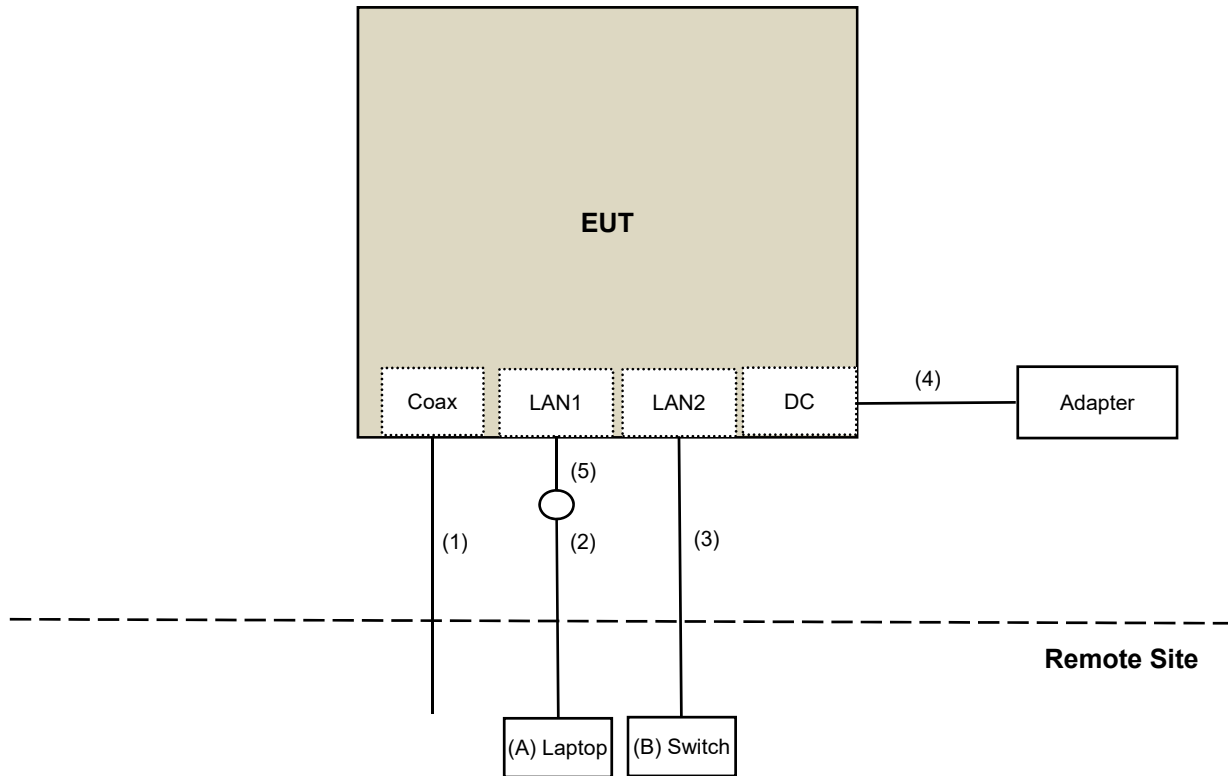
- 802.11a:** Duty cycle = $2.76 \text{ ms} / 2.816 \text{ ms} \times 100\% = 98.0\%$
- 802.11ax (HE20):** Duty cycle = $3.881 \text{ ms} / 3.935 \text{ ms} \times 100\% = 98.6\%$
- 802.11ax (HE40):** Duty cycle = $3.88 \text{ ms} / 3.935 \text{ ms} \times 100\% = 98.6\%$
- 802.11ax (HE80):** Duty cycle = $2.733 \text{ ms} / 2.789 \text{ ms} \times 100\% = 98.0\%$



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	1	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 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: 2022/7/6

4.2 Power Spectral Density

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: 2022/7/6

4.3 6 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: 2022/7/6

4.4 Occupied Bandwidth

Refer to section 4.2 to get information of the instruments.

4.5 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: 2022/7/6

4.6 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

4.7 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

4.8 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: 2022/4/25 ~ 2022/9/29

5 Limits of Test Items

5.1 RF Output Power

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

Operation Band	Limit
U-NII-3	1 Watt (30 dBm)

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.

5.2 Power Spectral Density

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

Operation Band	Limit
U-NII-3	30 dBm/ 500 kHz

5.3 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.

5.4 Occupied Bandwidth

The results are for reference only.

5.5 Frequency Stability

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

5.6 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.

5.7 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).

5.8 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.	

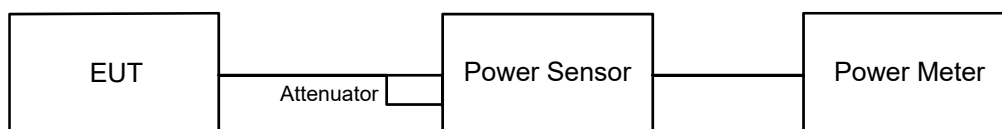
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup

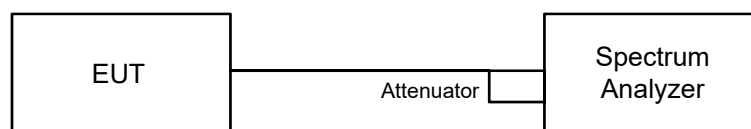


6.1.2 Test Procedure

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.

6.2 Power Spectral Density

6.2.1 Test Setup



6.2.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

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

For specified measurement bandwidth 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 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 $BWCF = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- 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

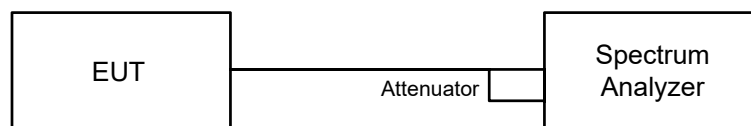
For specified measurement bandwidth 500 kHz:

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 $10 \log (1/\text{duty cycle})$.

6.3 6 dB Bandwidth

6.3.1 Test Setup

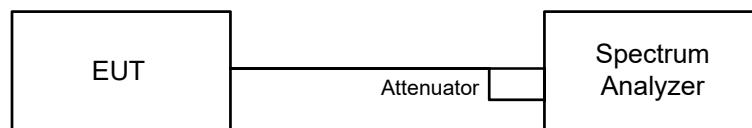


6.3.2 Test Procedure

- 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.

6.4 Occupied Bandwidth

6.4.1 Test Setup

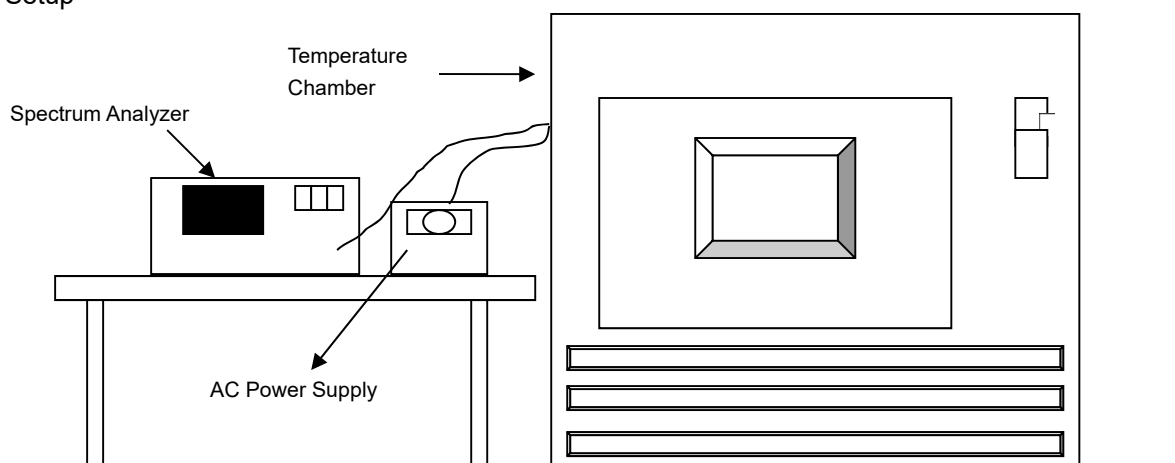


6.4.2 Test Procedure

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.

6.5 Frequency Stability

6.5.1 Test Setup

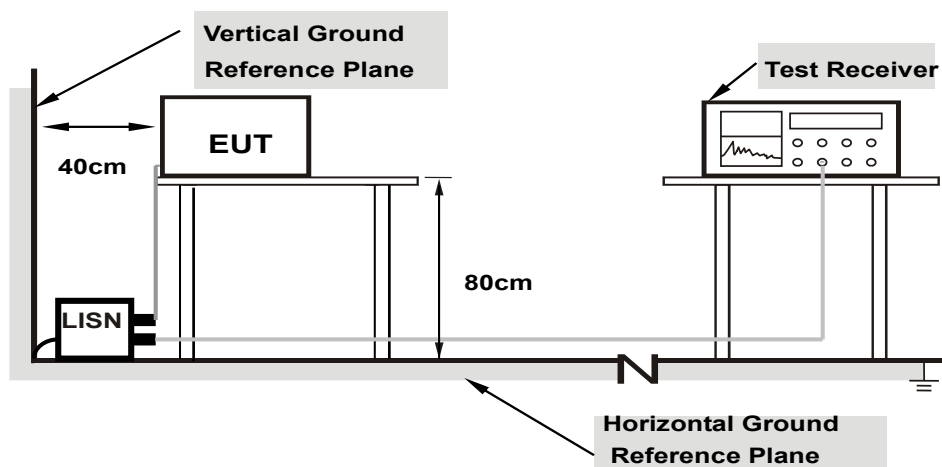


6.5.2 Test Procedure

- 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.

6.6 AC Power Conducted Emissions

6.6.1 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).

6.6.2 Test Procedure

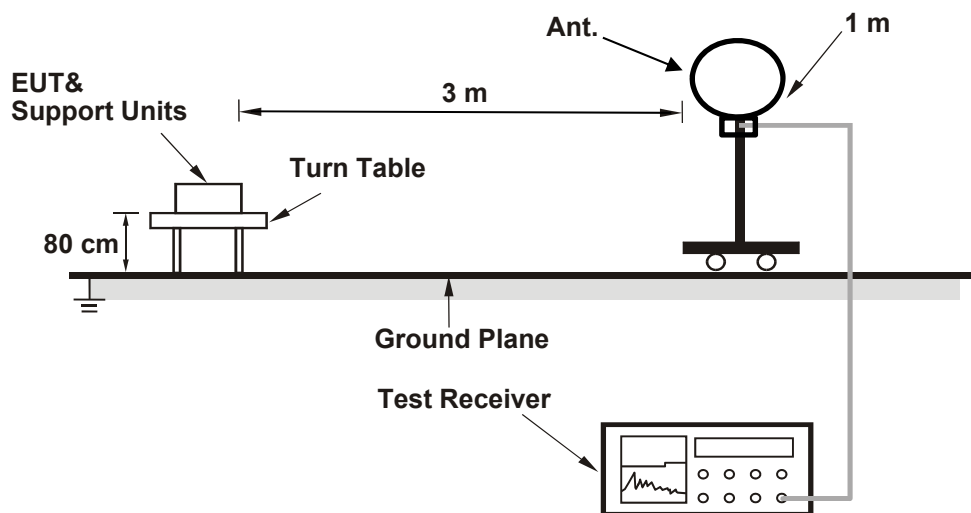
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

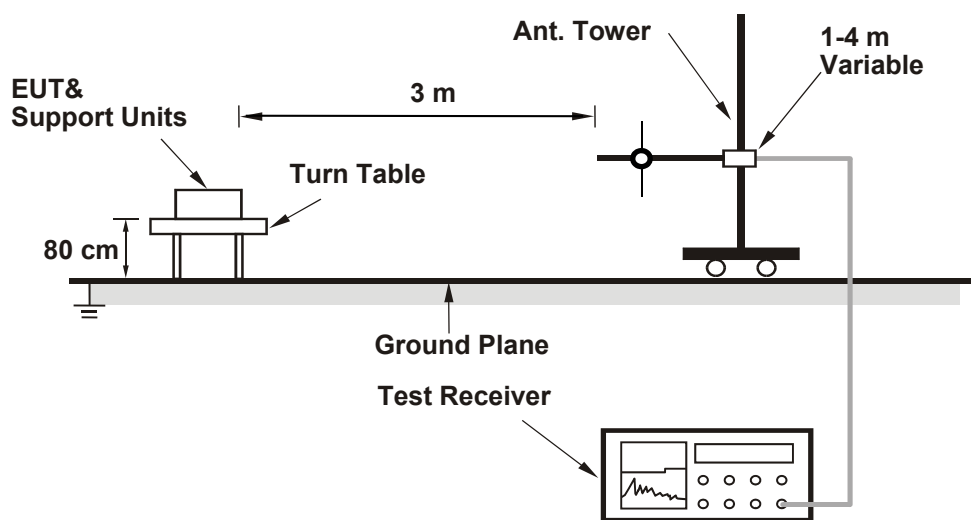
6.7 Unwanted Emissions below 1 GHz

6.7.1 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).

6.7.2 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.

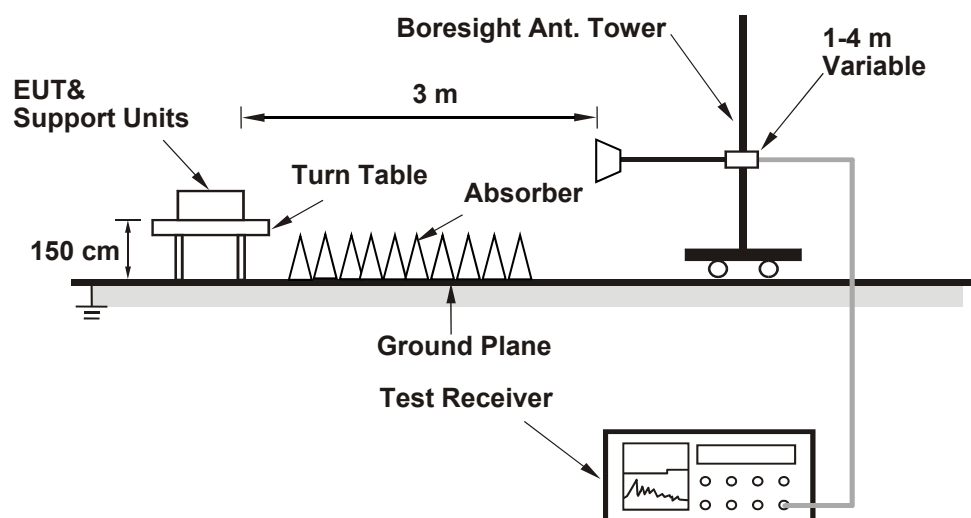
Notes:

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.

6.8 Unwanted Emissions above 1 GHz

6.8.1 Test Setup

For Radiated emission above 1 GHz



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

6.8.2 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 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				
36	5180	20.38	20.13	19.84	20.07	410.19	26.13	30	Pass
40	5200	20.98	20.66	20.04	21.08	470.885	26.73	30	Pass
48	5240	20.98	20.93	20.37	21.42	496.762	26.96	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, 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				
36	5180	18.99	18.75	17.89	17.72	274.913	24.39	30	Pass
40	5200	21.08	20.89	20.21	20.98	481.245	26.82	30	Pass
48	5240	21.38	21.25	21.18	21.38	539.381	27.32	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, 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				
38	5190	17.88	17.66	17.02	17.21	222.672	23.48	30	Pass
46	5230	21.81	21.77	21.16	21.23	565.376	27.52	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, 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				
42	5210	17.25	17.03	17.06	16.39	197.922	22.96	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, 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				
36	5180	19.16	18.87	18.16	17.99	287.918	24.59	30	Pass
40	5200	21.34	21.06	20.23	21.01	495.41	26.95	30	Pass
48	5240	21.64	21.67	21.34	21.43	567.914	27.54	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, 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				
38	5190	18.33	18.21	17.56	17.32	245.266	23.90	30	Pass
46	5230	22.23	21.98	21.63	21.69	617.987	27.91	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, 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				
42	5210	17.49	17.28	17.36	16.72	211.001	23.24	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, 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				
36	5180	17.90	17.62	16.88	16.65	214.46	23.31	28.8	Pass
40	5200	19.99	19.82	19.15	19.97	377.246	25.77	28.8	Pass
48	5240	20.34	20.16	20.03	20.15	416.104	26.19	28.8	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-1, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to $30-(7.2-6) = 28.8$ 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				
38	5190	16.82	16.61	15.99	16.42	177.47	22.49	28.8	Pass
46	5230	20.77	20.74	20.10	20.19	444.777	26.48	28.8	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-1, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to $30-(7.2-6) = 28.8$ 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				
42	5210	16.90	16.82	16.87	16.16	187.007	22.72	28.8	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-1, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to $30-(7.2-6) = 28.8$ 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				
36	5180	18.07	17.82	17.01	16.88	223.642	23.50	28.8	Pass
40	5200	20.35	20.15	19.30	20.07	398.646	26.01	28.8	Pass
48	5240	20.61	20.52	20.26	20.27	440.384	26.44	28.8	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-1, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to $30-(7.2-6) = 28.8$ dBm.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.32	17.07	16.55	16.32	192.925	22.85	28.8	Pass
46	5230	21.18	20.94	20.57	20.60	484.226	26.85	28.8	Pass

Notes:

1. Directional gain = $10 \log\left[\frac{(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2}{4}\right]$
2. For U-NII-1, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (7.2 - 6) = 28.8$ dBm.

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	16.93	16.79	16.85	16.30	188.145	22.74	28.8	Pass

Notes:

1. Directional gain = $10 \log\left[\frac{(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2}{4}\right]$
2. For U-NII-1, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (7.2 - 6) = 28.8$ dBm.

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				
36	5180	19.81	19.24	19.47	19.17	350.781	25.45	30	Pass
40	5200	22.03	21.65	21.51	21.71	595.637	27.75	30	Pass
48	5240	21.98	21.59	21.38	21.66	585.932	27.68	30	Pass
149	5745	24.00	23.17	23.15	23.92	911.822	29.60	30	Pass
157	5785	23.90	23.38	22.73	23.46	872.561	29.41	30	Pass
165	5825	24.09	23.09	23.01	24.03	913.069	29.61	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the directional gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
3. 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				
36	5180	17.25	17.49	17.28	17.37	217.225	23.37	30	Pass
40	5200	21.56	21.29	21.17	21.23	541.462	27.34	30	Pass
48	5240	21.33	21.13	20.97	21.16	521.192	27.17	30	Pass
149	5745	23.73	22.83	22.78	23.62	847.729	29.28	30	Pass
157	5785	23.51	22.99	22.80	23.58	842.036	29.25	30	Pass
165	5825	23.98	22.59	22.84	24.19	886.317	29.48	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the directional gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
3. 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				
38	5190	16.42	15.80	16.43	15.87	164.463	22.16	30	Pass
46	5230	21.18	20.61	21.00	20.92	495.787	26.95	30	Pass
151	5755	23.74	24.06	22.94	23.54	914.007	29.61	30	Pass
159	5795	24.07	23.30	22.43	23.96	892.937	29.51	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
3. 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				
42	5210	16.50	16.06	16.43	15.73	166.398	22.21	30	Pass
155	5775	20.38	20.95	20.94	21.09	486.289	26.87	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the directional gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the directional 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				
36	5180	17.48	17.71	17.56	17.58	229.292	23.60	30	Pass
40	5200	21.85	21.57	21.38	21.45	573.699	27.59	30	Pass
48	5240	21.60	21.42	21.22	21.36	552.427	27.42	30	Pass
149	5745	23.93	23.06	23.00	23.83	890.547	29.50	30	Pass
157	5785	23.75	23.25	23.03	23.88	893.739	29.51	30	Pass
165	5825	24.24	22.80	23.14	24.49	943.26	29.75	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the directional gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
3. 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				
38	5190	16.67	16.07	16.70	16.07	174.14	22.41	30	Pass
46	5230	21.44	20.84	21.30	21.18	526.771	27.22	30	Pass
151	5755	23.96	24.36	23.17	23.84	971.378	29.87	30	Pass
159	5795	24.29	23.55	22.63	24.19	940.652	29.73	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
3. 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				
42	5210	16.72	16.27	16.77	16.01	176.79	22.47	30	Pass
155	5775	20.63	21.23	21.10	21.33	513.007	27.10	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the directional gain is 3.1 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the directional 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				
36	5180	16.16	16.46	16.09	16.33	169.162	22.28	28.8	Pass
40	5200	20.50	20.21	20.13	20.10	422.524	26.26	28.8	Pass
48	5240	20.27	19.94	19.89	20.03	403.234	26.06	28.8	Pass
149	5745	22.02	21.10	21.07	21.91	571.223	27.57	28.27	Pass
157	5785	21.79	21.26	21.09	21.84	565.953	27.53	28.27	Pass
165	5825	22.28	20.84	21.09	22.47	595.515	27.75	28.27	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-1, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to 30-(7.2-6) = 28.8 dBm.
3. 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				
38	5190	15.40	14.67	15.27	14.87	128.324	21.08	28.8	Pass
46	5230	20.04	19.50	19.88	19.92	385.5	25.86	28.8	Pass
151	5755	21.85	22.24	21.11	21.63	595.271	27.75	28.27	Pass
159	5795	22.13	21.38	20.58	22.09	576.805	27.61	28.27	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-1, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to $30-(7.2-6) = 28.8$ dBm.
3. 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				
42	5210	16.29	15.87	16.21	15.55	158.872	22.01	28.8	Pass
155	5775	20.19	20.74	20.75	20.88	464.361	26.67	28.27	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-1, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to $30-(7.2-6) = 28.8$ dBm.
3. 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				
36	5180	16.37	16.65	16.39	16.56	178.43	22.51	28.8	Pass
40	5200	20.77	20.39	20.36	20.39	446.833	26.50	28.8	Pass
48	5240	20.47	20.23	20.13	20.28	426.566	26.30	28.8	Pass
149	5745	22.19	21.35	21.28	22.10	598.493	27.77	28.27	Pass
157	5785	22.04	21.54	21.30	22.16	601.85	27.79	28.27	Pass
165	5825	22.49	21.09	21.40	22.74	631.918	28.01	28.27	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-1, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to $30-(7.2-6) = 28.8$ dBm.
3. 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				
38	5190	15.65	14.94	15.54	15.07	135.863	21.33	28.8	Pass
46	5230	20.30	19.73	20.18	20.18	409.588	26.12	28.8	Pass
151	5755	22.08	22.39	21.24	21.91	623.1	27.95	28.27	Pass
159	5795	22.33	21.74	20.67	22.23	604.071	27.81	28.27	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-1, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to $30-(7.2-6) = 28.8$ dBm.
3. 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				
42	5210	16.53	16.15	16.66	15.88	171.258	22.34	28.8	Pass
155	5775	20.49	21.10	20.98	21.19	497.605	26.97	28.27	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-1, the directional gain is 7.2 dBi > 6 dBi, so the output power limit shall be reduced to $30-(7.2-6) = 28.8$ dBm.
3. 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				
149	5745	24.07	23.82	23.10	24.69	994.877	29.98	30	Pass
157	5785	23.69	23.77	23.29	24.94	997.309	29.99	30	Pass
165	5825	23.48	23.59	22.87	24.83	949.134	29.77	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. 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				
149	5745	23.65	23.79	23.06	24.67	966.462	29.85	30	Pass
157	5785	23.52	23.69	23.03	24.79	960.999	29.83	30	Pass
165	5825	23.20	23.40	22.89	24.66	914.657	29.61	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. 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				
151	5755	23.69	23.76	23.29	24.32	955.268	29.80	30	Pass
159	5795	23.38	23.61	23.58	24.44	953.391	29.79	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. 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				
155	5775	23.23	23.37	22.91	24.31	892.856	29.51	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-3, 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				
149	5745	23.76	23.84	23.11	24.93	995.603	29.98	30	Pass
157	5785	23.61	23.78	23.23	24.99	994.274	29.98	30	Pass
165	5825	23.41	23.69	23.04	24.76	953.763	29.79	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. 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				
151	5755	23.72	23.96	23.55	24.51	993.343	29.97	30	Pass
159	5795	23.64	23.79	23.67	24.67	996.437	29.98	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. 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				
155	5775	23.44	23.50	23.23	24.66	947.466	29.77	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-3, 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				
149	5745	21.46	21.61	20.84	22.59	587.726	27.69	28.26	Pass
157	5785	21.32	21.51	20.97	22.68	587.477	27.69	28.26	Pass
165	5825	21.65	21.84	21.30	23.07	636.639	28.04	28.26	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-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				
151	5755	21.27	21.38	20.84	22.32	563.319	27.51	28.26	Pass
159	5795	21.25	21.21	21.19	22.33	568.006	27.54	28.26	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-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				
155	5775	21.62	21.81	21.42	22.69	621.372	27.93	28.26	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-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 (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				
149	5745	21.60	21.74	20.95	22.83	610.142	27.85	28.26	Pass
157	5785	21.50	21.67	21.06	22.90	610.775	27.86	28.26	Pass
165	5825	21.84	22.09	21.44	23.20	662.81	28.21	28.26	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-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				
151	5755	21.50	21.72	21.34	22.36	598.179	27.77	28.26	Pass
159	5795	21.44	21.54	21.54	22.53	603.498	27.81	28.26	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-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				
155	5775	21.84	21.97	21.72	23.19	667.198	28.24	28.26	Pass

Notes:

1. Directional gain = $10 \log\left[\frac{(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2}{4}\right]$
2. 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.

7.2 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			
36	5180	8.82	8.99	9.02	8.99	14.98	15.80	Pass
40	5200	9.02	9.29	9.27	8.97	15.16	15.80	Pass
48	5240	8.95	9.15	9.28	8.93	15.10	15.80	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-1, the directional gain is 7.2 dBi > 6dBi, so the power density limit shall be reduced to $17-(7.2-6) = 15.8$ 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			
36	5180	6.63	6.17	5.91	6.09	12.23	15.80	Pass
40	5200	9.05	9.07	8.68	9.01	14.98	15.80	Pass
48	5240	9.19	9.07	8.69	9.13	15.04	15.80	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-1, the directional gain is 7.2 dBi > 6dBi, so the power density limit shall be reduced to $17-(7.2-6) = 15.8$ 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			
38	5190	2.86	2.96	2.63	2.90	8.86	15.80	Pass
46	5230	6.28	6.74	6.70	6.82	12.66	15.80	Pass

Notes:

1. 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.
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-1, the directional gain is 7.2 dBi > 6dBi, so the power density limit shall be reduced to $17-(7.2-6) = 15.8$ dBm/MHz.

802.11ax (HE80)

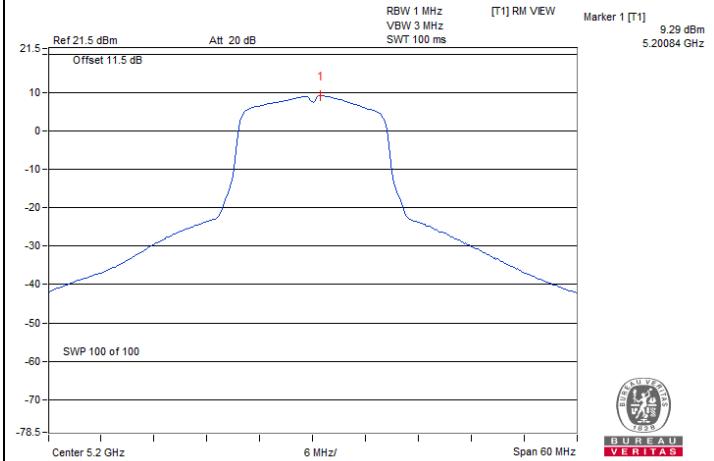
Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
42	5210	-0.59	-0.90	-0.80	-1.47	5.09	15.80	Pass

Notes:

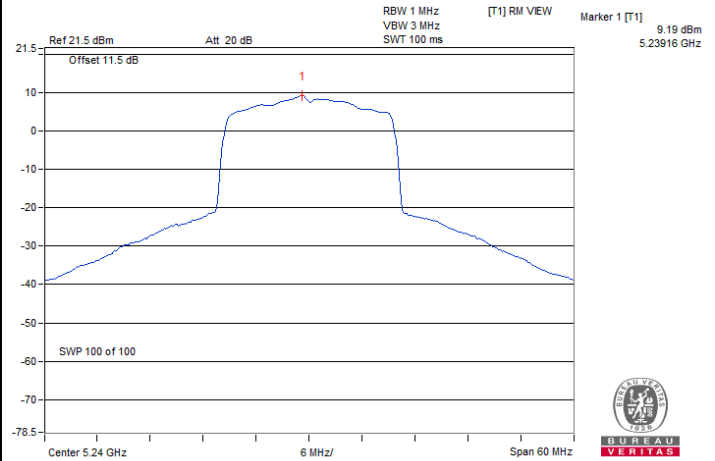
1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
3. For U-NII-1, the directional gain is 7.2 dBi > 6dBi, so the power density limit shall be reduced to $17-(7.2-6) = 15.8$ dBm/MHz.



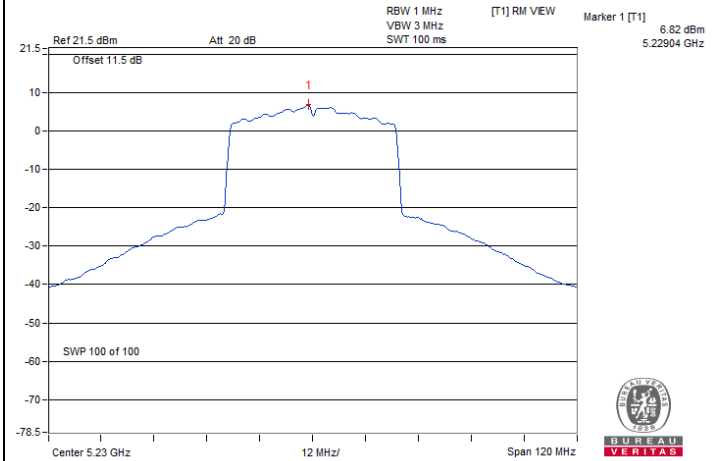
Spectrum Plot of Maximum Value



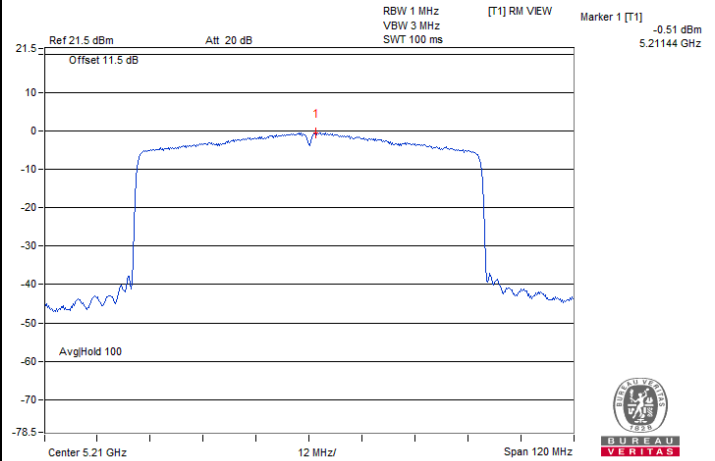
802.11a / Chain1 : CH 40



802.11ax (HE20) / Chain0 : CH 48



802.11ax (HE40) / Chain3 : CH 46



802.11ax (HE80) / Chain0 : CH 42

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			
36	5180	7.48	7.59	7.37	7.10	13.41	15.80	Pass
40	5200	9.33	9.31	9.22	9.05	15.25	15.80	Pass
48	5240	9.14	9.09	9.29	9.02	15.16	15.80	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-1, the directional gain is 7.2 dBi > 6dBi, so the power density limit shall be reduced to $17-(7.2-6) = 15.8$ 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			
36	5180	5.44	5.22	5.32	5.03	11.28	15.80	Pass
40	5200	8.47	9.05	9.08	8.90	14.90	15.80	Pass
48	5240	8.70	8.94	9.17	8.92	14.96	15.80	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-1, the directional gain is 7.2 dBi > 6dBi, so the power density limit shall be reduced to $17-(7.2-6) = 15.8$ 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				
38	5190	1.15	1.06	1.11	1.10	0.12	7.25	15.80	Pass
46	5230	6.06	5.75	6.06	6.11	0.12	12.14	15.80	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-1, the directional gain is 7.2 dBi > 6dBi, so the power density limit shall be reduced to $17-(7.2-6) = 15.8$ 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				
42	5210	-1.83	-2.26	-1.69	-2.53	0.24	4.20	15.80	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-1, the directional gain is 7.2 dBi > 6dBi, so the power density limit shall be reduced to $17-(7.2-6) = 15.8$ 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				
149	5745	2.48	2.26	2.10	2.12	8.26	10.48	28.27	Pass
157	5785	1.58	1.51	1.44	1.24	7.46	9.68	28.27	Pass
165	5825	1.91	1.94	1.74	1.70	7.84	10.06	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-3, the directional gain is 7.73 dBi > 6 dBi, so the power density limit shall be reduced to $30-(7.73-6) = 28.27$ dBm/500kHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
149	5745	0.89	0.56	0.47	0.52	6.63	8.85	28.27	Pass
157	5785	0.64	0.52	0.52	0.36	6.53	8.75	28.27	Pass
165	5825	1.04	0.87	0.70	0.78	6.87	9.09	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-3, the directional gain is 7.73 dBi > 6 dBi, so the power density limit shall be reduced to $30-(7.73-6) = 28.27$ dBm/500kHz.

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					
151	5755	-1.80	-1.93	-1.88	-2.04	4.11	0.12	6.45	28.27	Pass
159	5795	-1.55	-1.70	-1.81	-1.81	4.3	0.12	6.64	28.27	Pass

Notes:

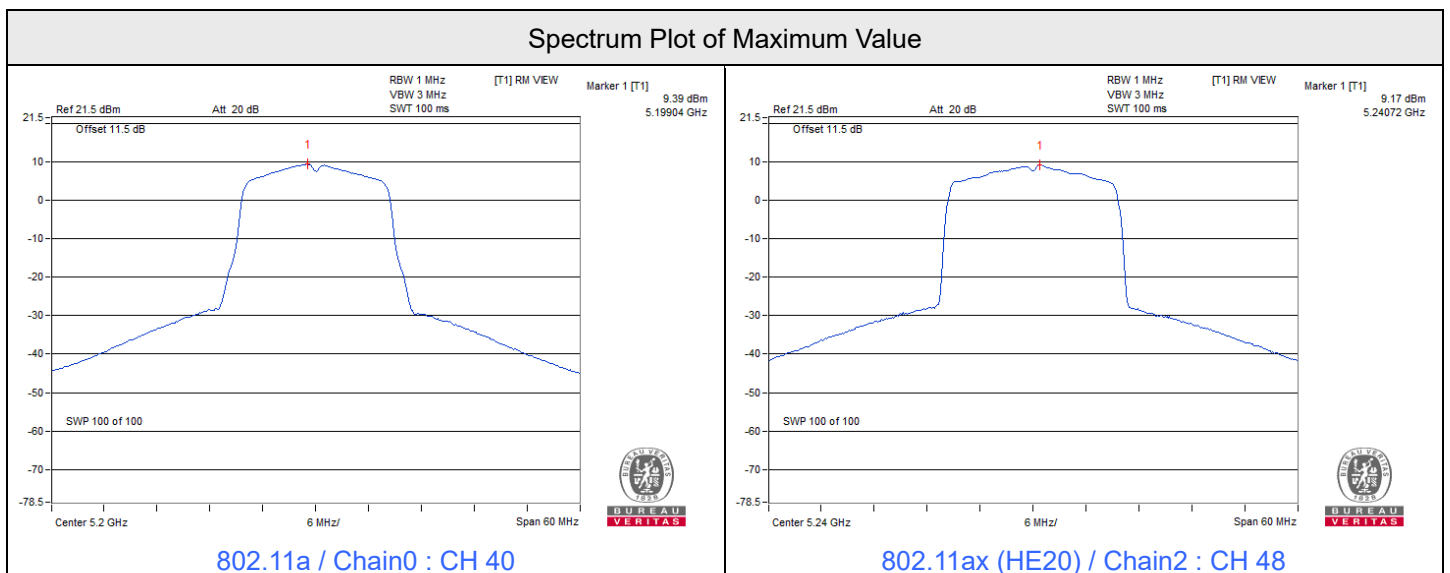
- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-3, the directional gain is 7.73 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (7.73 - 6) = 28.27 \text{ dBm/500kHz}$.

802.11ax (HE80)

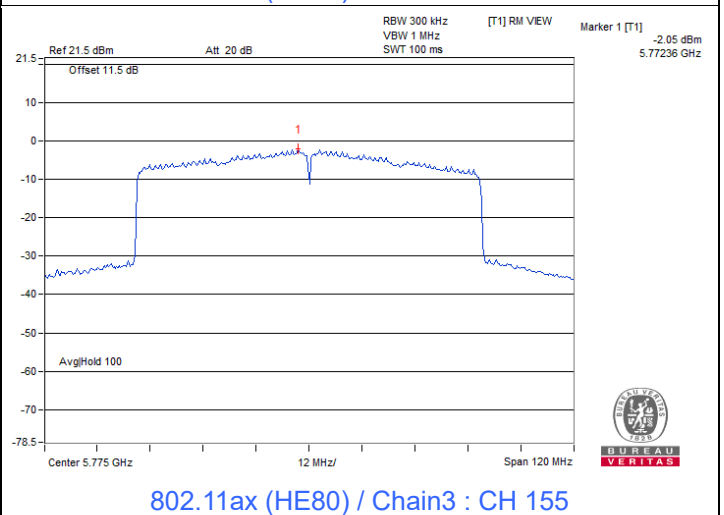
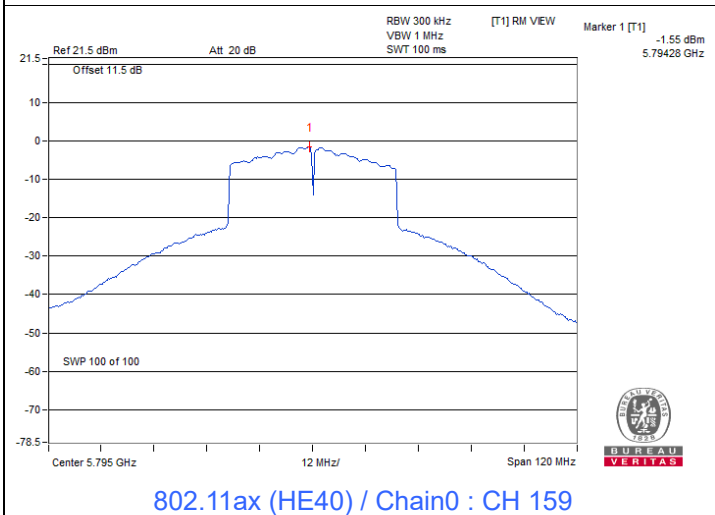
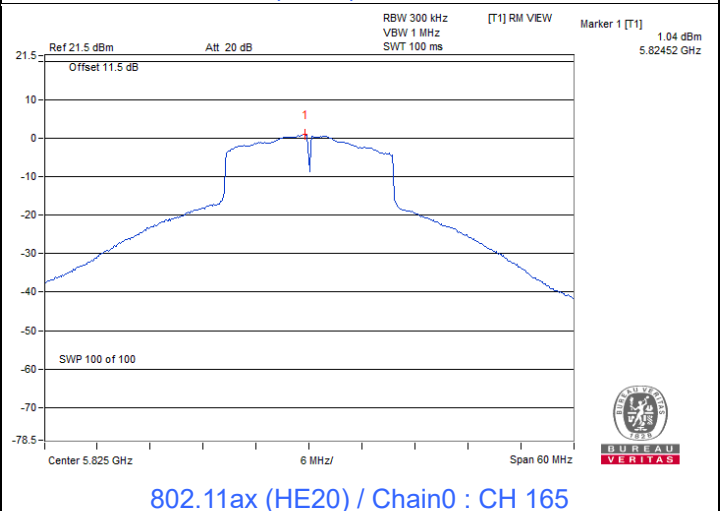
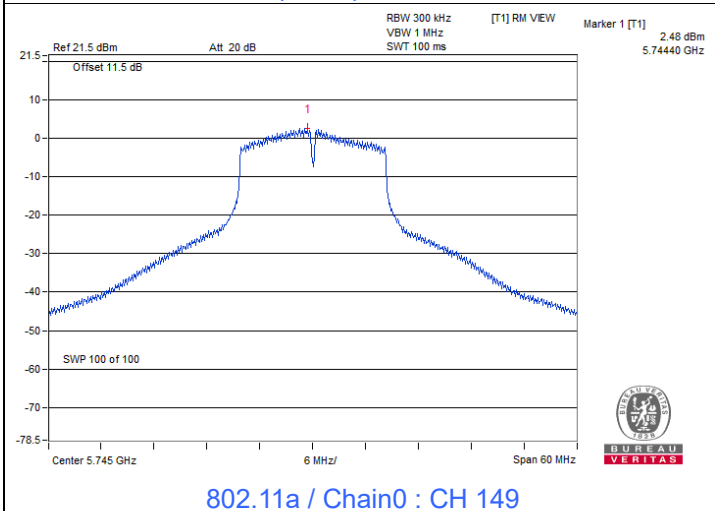
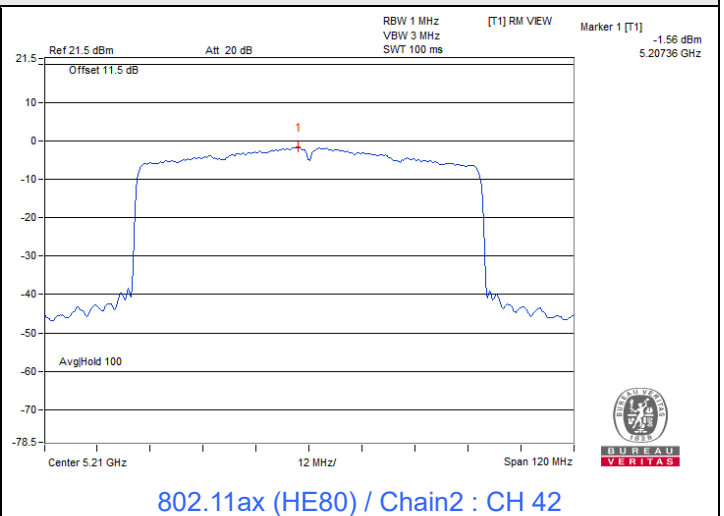
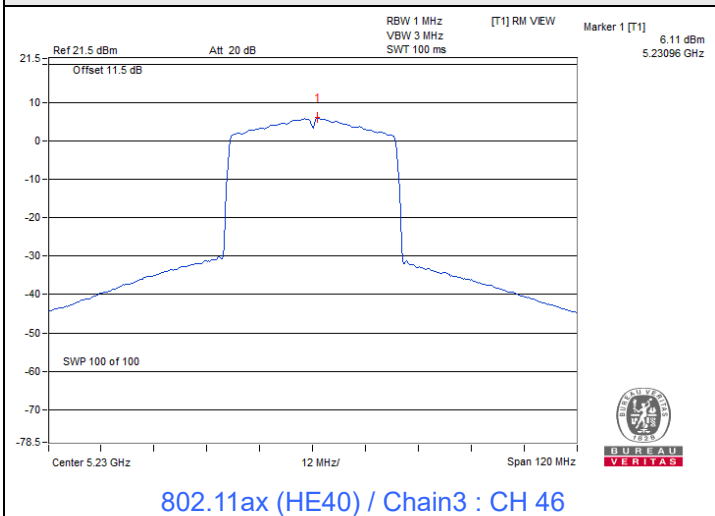
Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
155	5775	-3.03	-2.64	-2.22	-2.05	3.55	0.24	6.01	28.27	Pass

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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-3, the directional gain is 7.73 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (7.73 - 6) = 28.27 \text{ dBm/500kHz}$.



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/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
149	5745	2.25	2.30	2.42	2.33	8.35	10.57	28.26	Pass
157	5785	2.28	2.45	2.58	2.43	8.46	10.68	28.26	Pass
165	5825	2.10	2.21	2.34	2.14	8.22	10.44	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-3, the directional gain is 7.74 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (7.74 - 6) = 28.26$ dBm/500kHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
149	5745	0.93	0.93	0.94	1.00	6.97	9.19	28.26	Pass
157	5785	1.01	1.07	1.15	0.94	7.06	9.28	28.26	Pass
165	5825	0.69	0.74	0.87	0.57	6.74	8.96	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-3, the directional gain is 7.74 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (7.74 - 6) = 28.26$ dBm/500kHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
151	5755	-0.95	-0.92	-0.86	-1.02	5.08	7.30	28.26	Pass
159	5795	-0.72	-0.83	-0.69	-0.92	5.23	7.45	28.26	Pass

Notes:

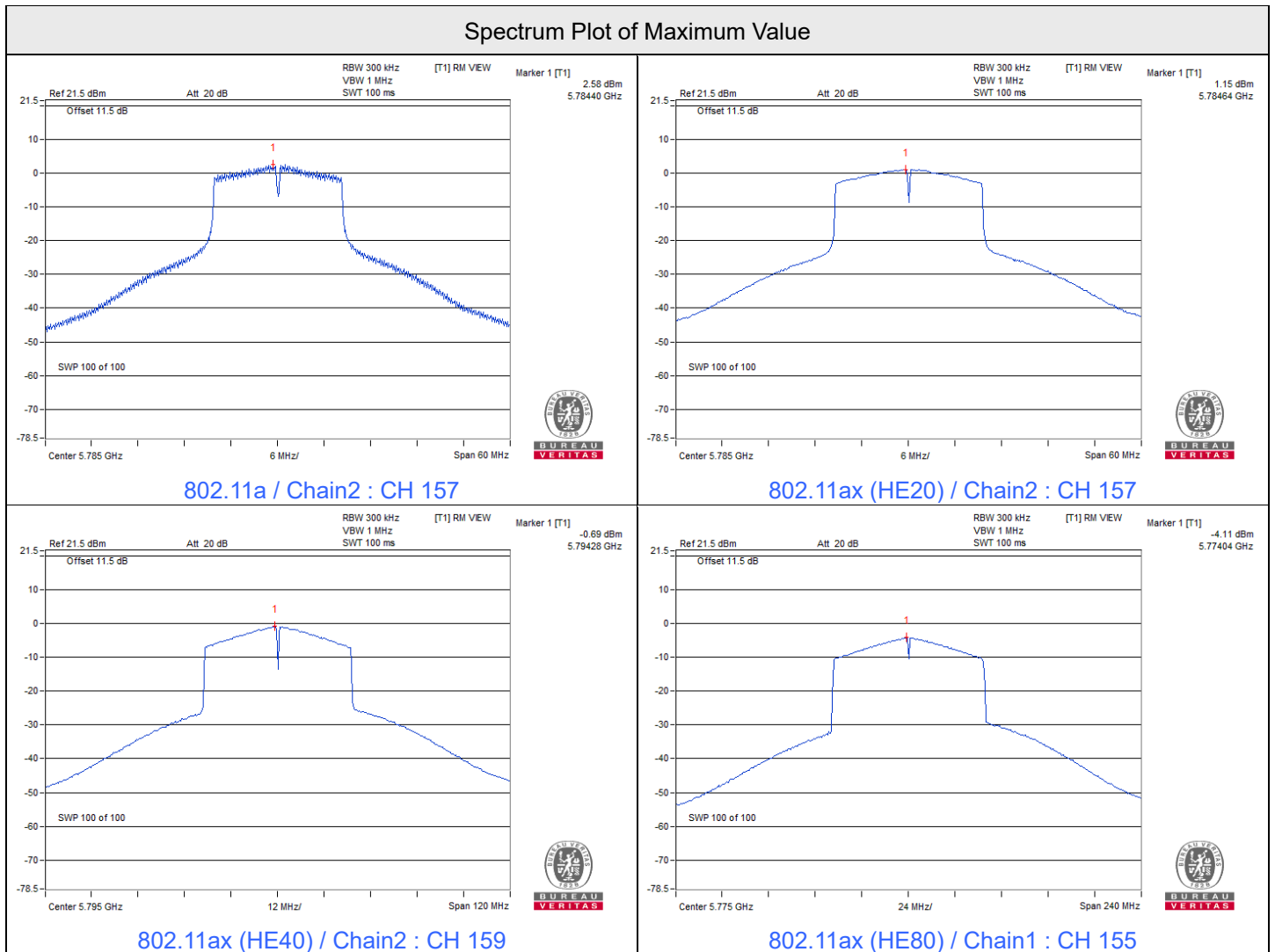
- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-3, the directional gain is 7.74 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (7.74 - 6) = 28.26$ dBm/500kHz.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
155	5775	-4.20	-4.11	-4.22	-4.23	1.83	4.05	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20} + 10^{\text{Chain2}/20} + 10^{\text{Chain3}/20})^2 / 4]$
- For U-NII-3, the directional gain is 7.74 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (7.74 - 6) = 28.26$ dBm/500kHz.



7.3 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		
149	5745	15.13	15.13	15.14	15.10	0.5	Pass
157	5785	15.14	15.13	15.20	15.13	0.5	Pass
165	5825	15.15	15.72	15.17	15.15	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		
149	5745	16.72	17.36	16.36	17.07	0.5	Pass
157	5785	16.98	16.71	16.86	16.22	0.5	Pass
165	5825	15.90	16.00	15.92	16.56	0.5	Pass

802.11ax (HE40)

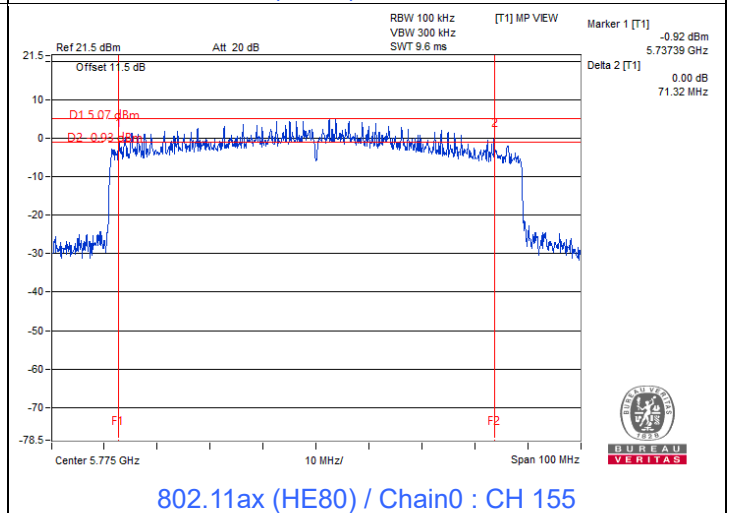
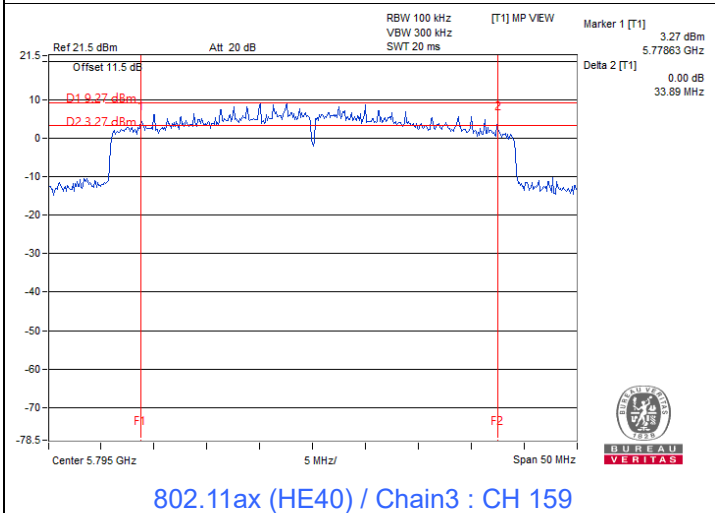
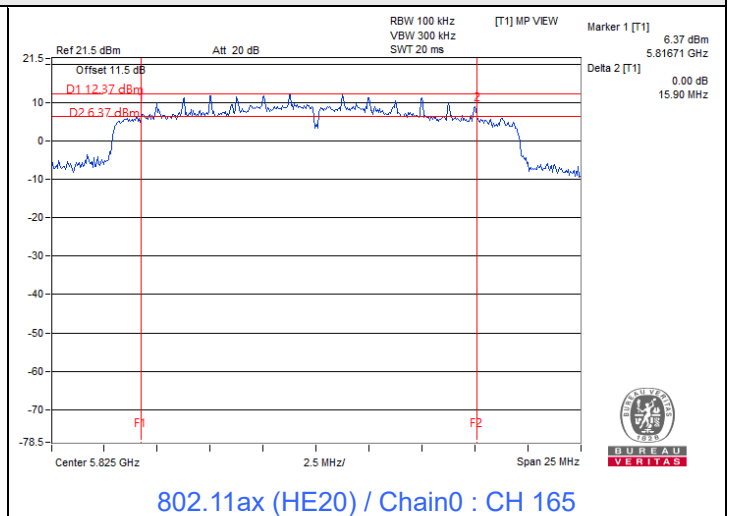
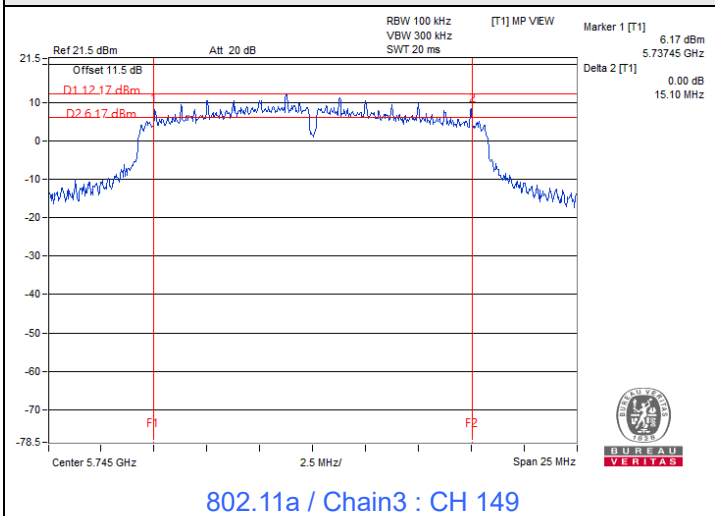
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
151	5755	33.93	35.19	35.16	36.11	0.5	Pass
159	5795	34.17	33.95	33.95	33.89	0.5	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
155	5775	71.32	71.34	76.06	75.05	0.5	Pass



Spectrum Plot of Minimum 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

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	15.96	16.09	15.94	15.75	0.5	Pass
157	5785	15.17	16.08	16.36	16.33	0.5	Pass
165	5825	15.74	15.74	15.38	15.39	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		
149	5745	17.84	18.18	17.73	17.74	0.5	Pass
157	5785	18.31	17.76	18.18	17.74	0.5	Pass
165	5825	18.05	17.63	17.28	17.26	0.5	Pass

802.11ax (HE40)

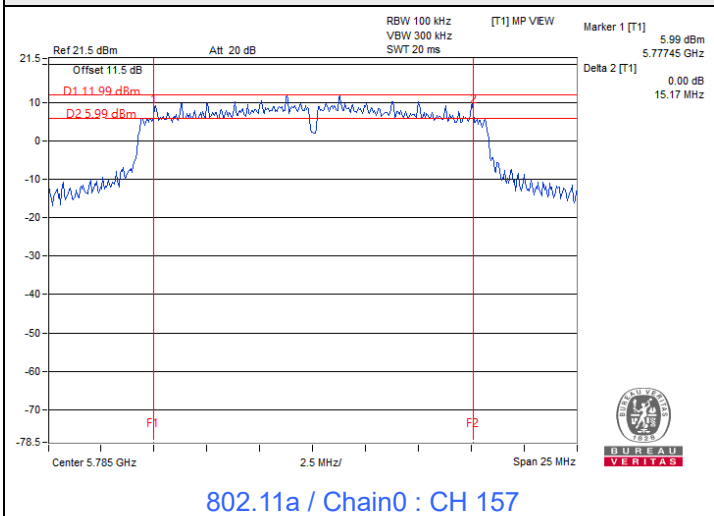
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
151	5755	32.70	33.95	32.70	33.88	0.5	Pass
159	5795	33.93	35.13	35.15	35.12	0.5	Pass

802.11ax (HE80)

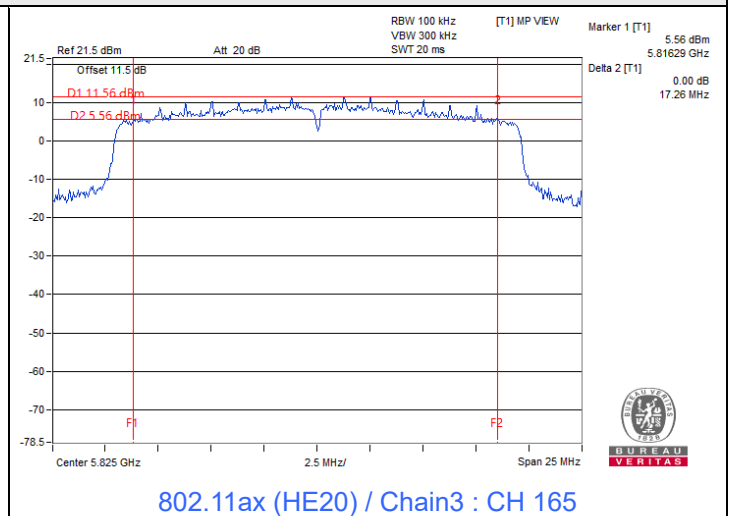
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
155	5775	70.24	74.04	75.23	74.03	0.5	Pass



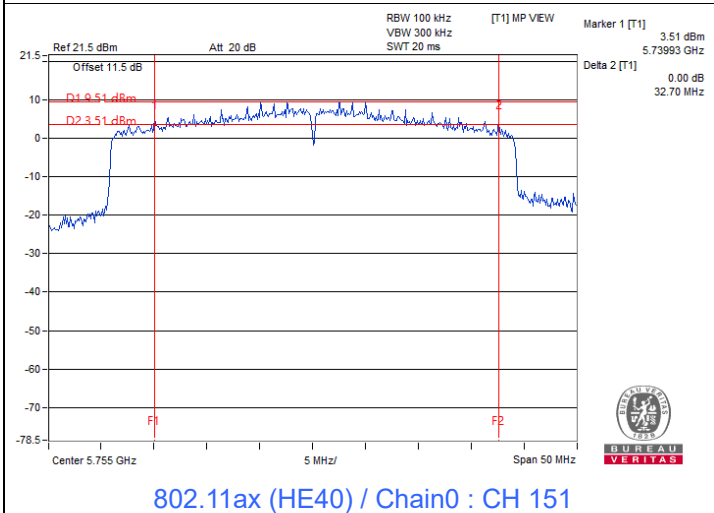
Spectrum Plot of Minimum Value



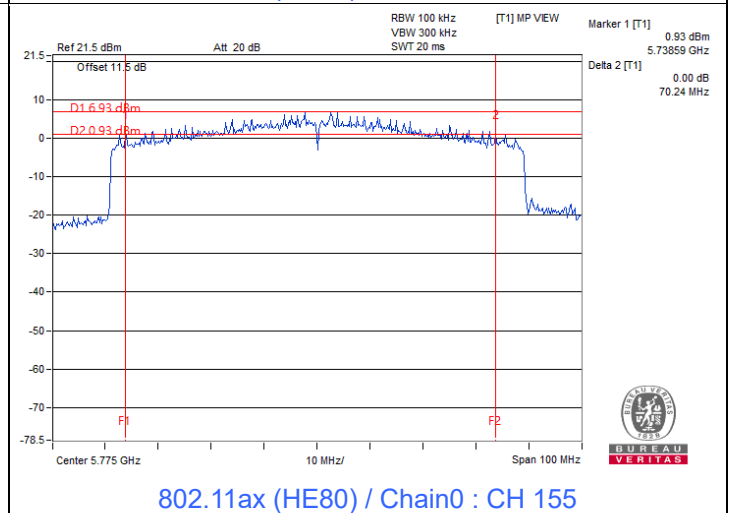
802.11a / Chain0 : CH 157



802.11ax (HE20) / Chain3 : CH 165



802.11ax (HE40) / Chain0 : CH 151



802.11ax (HE80) / Chain0 : CH 155

7.4 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
36	5180	16.56	16.80	16.56	16.56
40	5200	16.56	16.68	16.56	16.56
48	5240	16.56	16.56	16.68	16.56

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	18.96	18.96	18.96	18.96
40	5200	18.96	19.08	18.96	19.08
48	5240	18.84	18.96	18.84	18.96

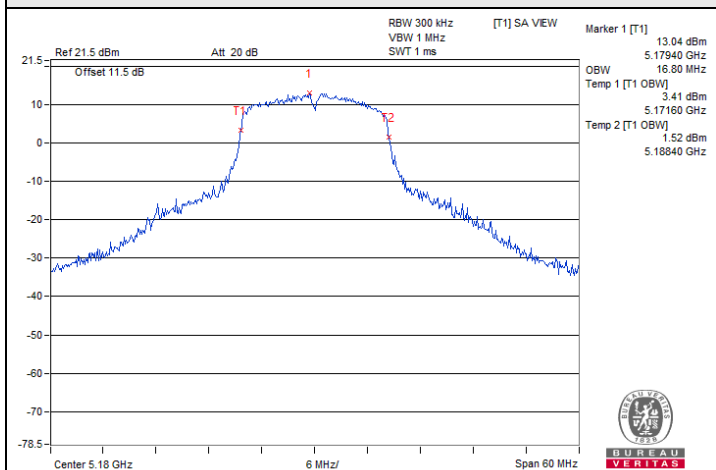
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	37.68	37.68	37.56	37.80
46	5230	37.92	37.92	38.16	37.92

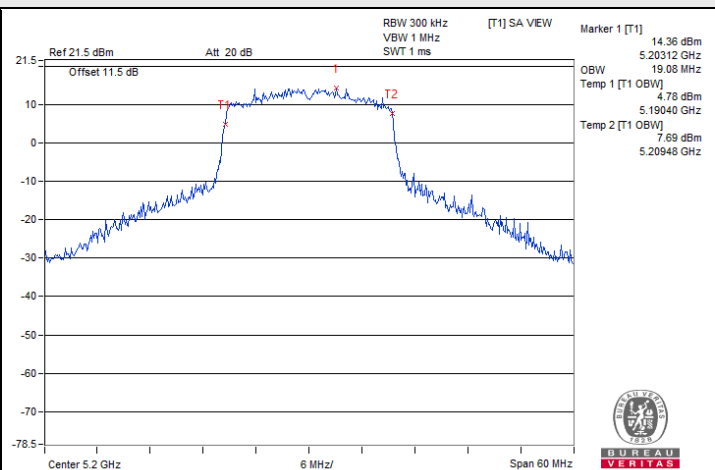
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	76.80	76.32	76.56	76.56

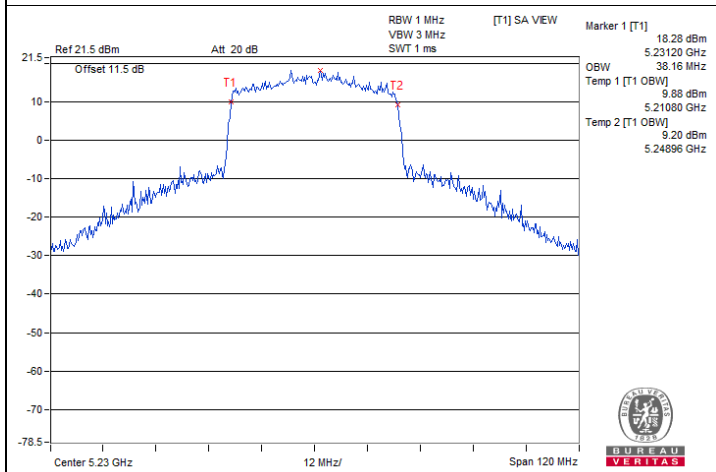
Spectrum Plot of Maximum Value



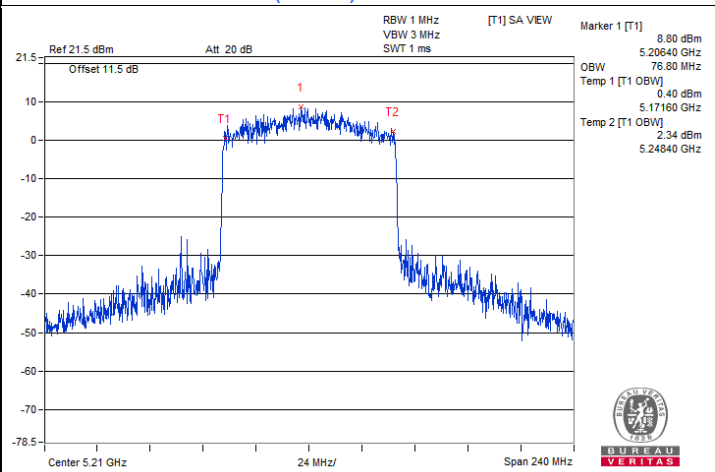
802.11a / Chain1 : CH 36



802.11ax (HE20) / Chain1 : CH 40

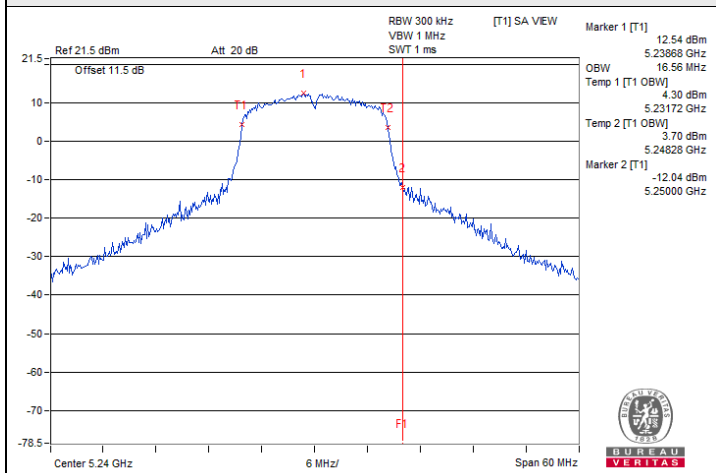
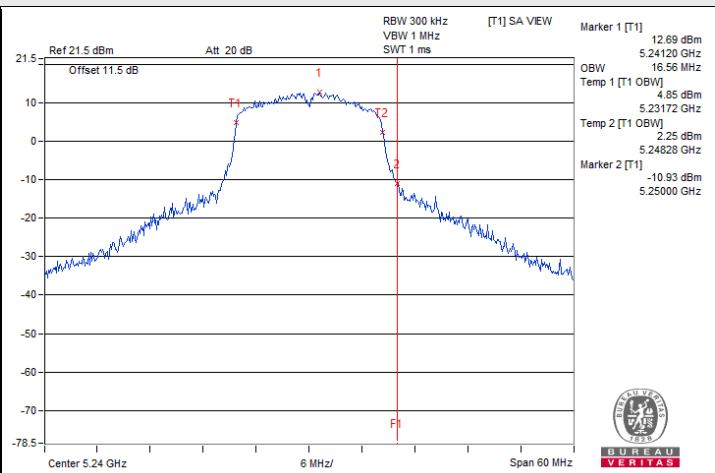
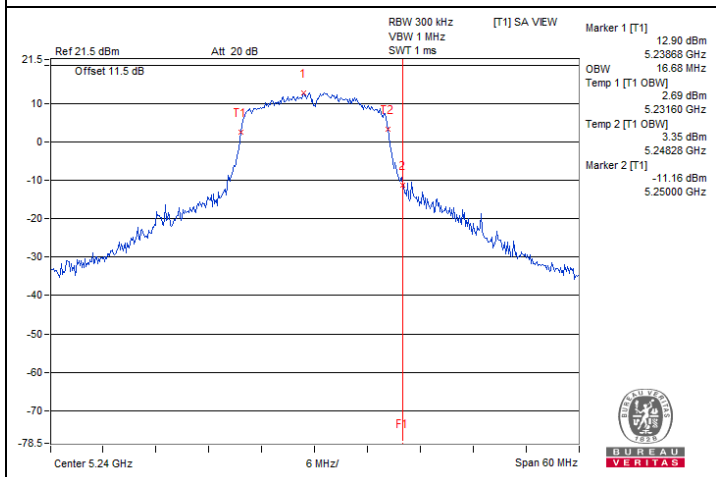
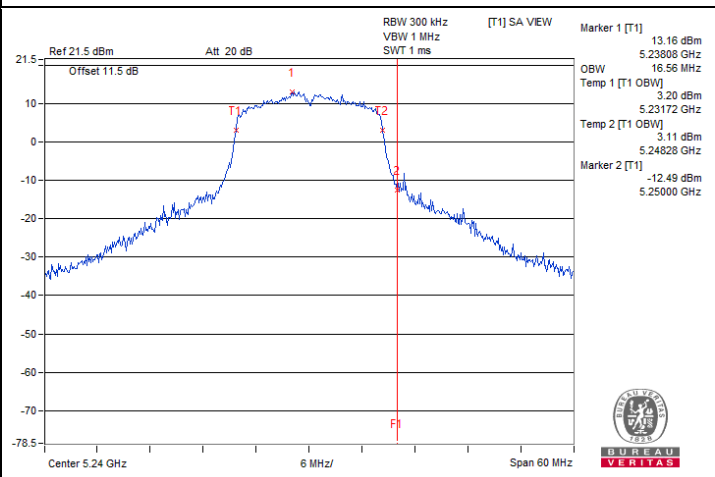
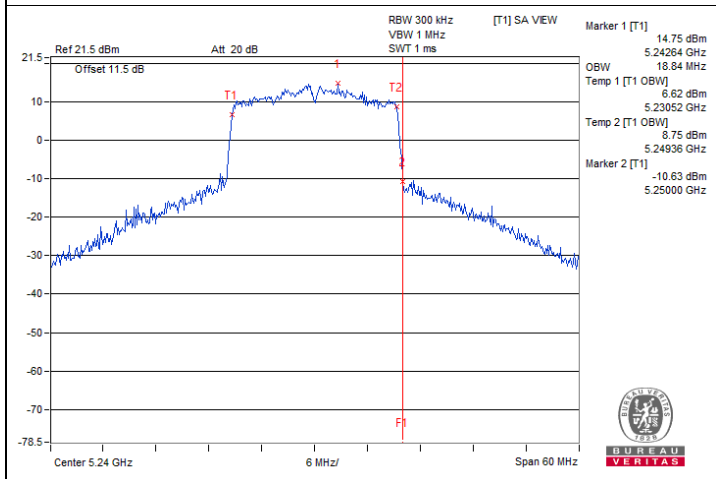
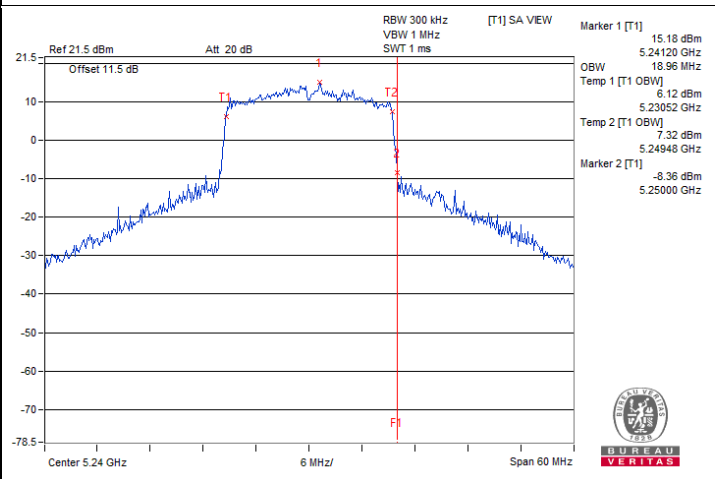


802.11ax (HE40) / Chain2 : CH 46

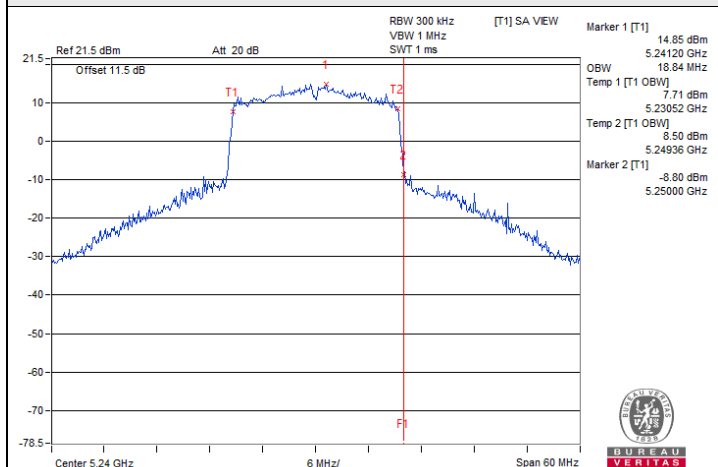


802.11ax (HE80) / Chain0 : CH 42

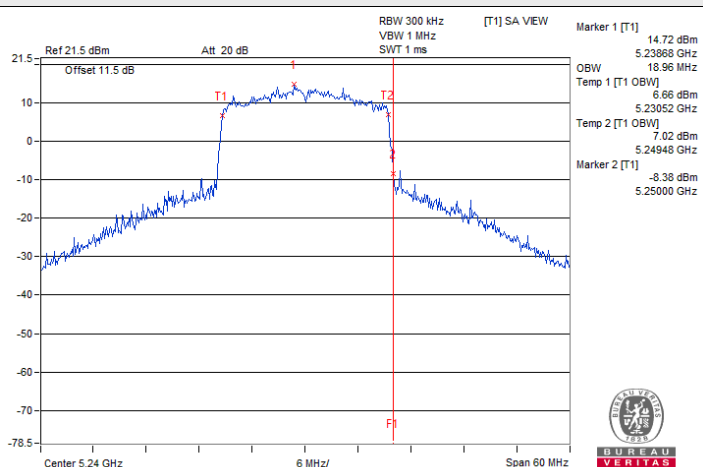
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)

**802.11a / Chain 0 : CH 48****802.11a / Chain 1 : CH 48****802.11a / Chain 2 : CH 48****802.11a / Chain 3 : CH 48****802.11ax (HE20) / Chain 0 : CH 48****802.11ax (HE20) / Chain 1 : CH 48**

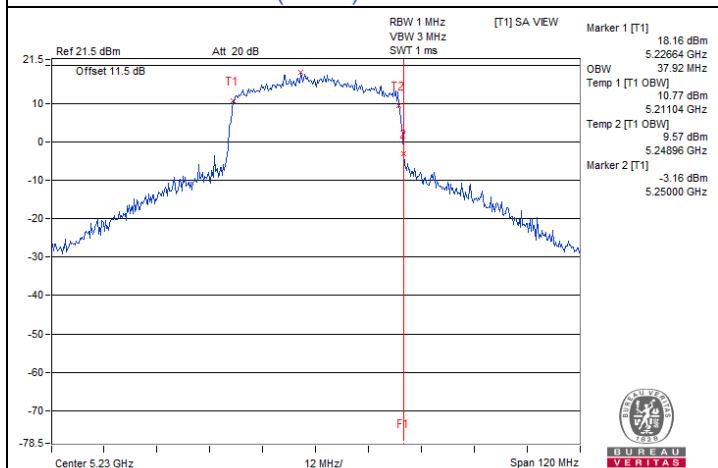
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)



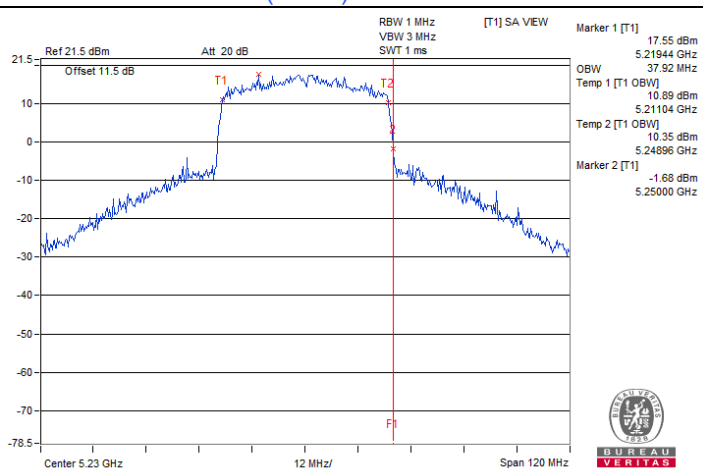
802.11ax (HE20) / Chain 2 : CH 48



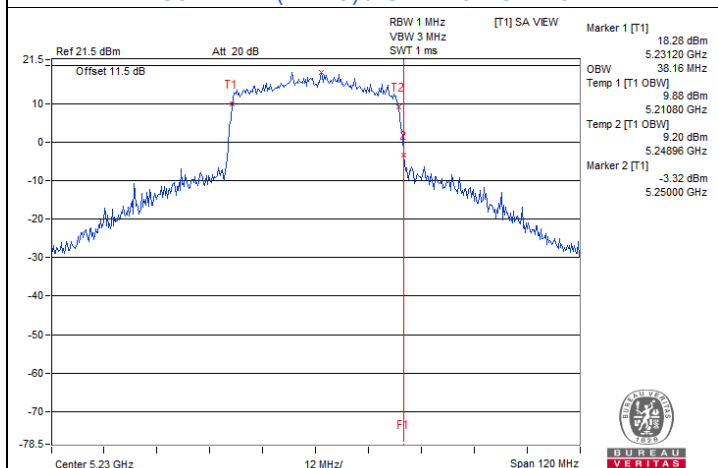
802.11ax (HE20) / Chain 3 : CH 48



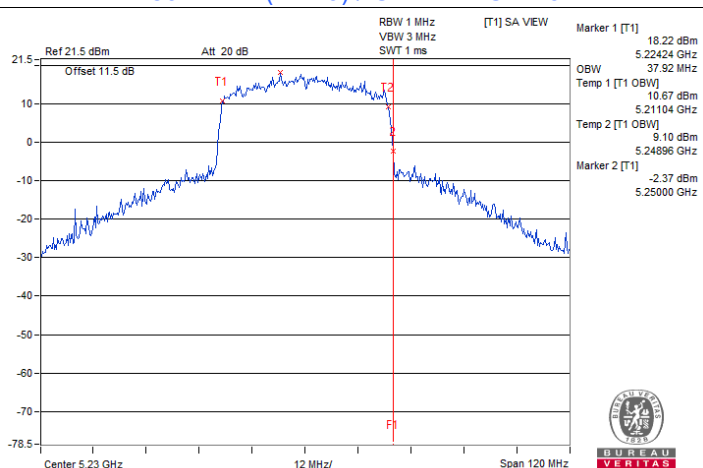
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46



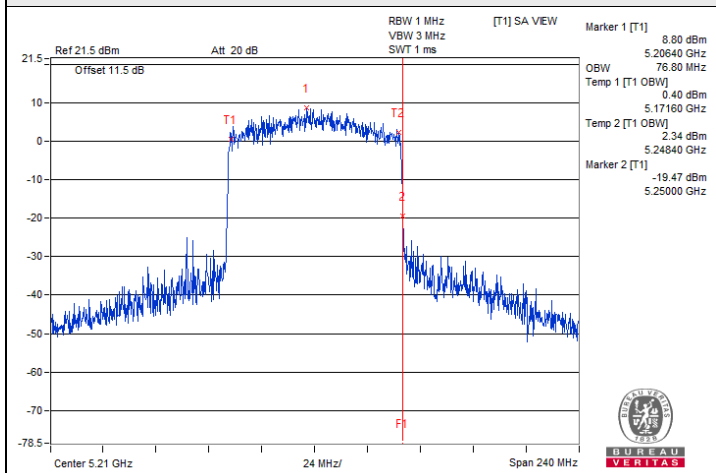
802.11ax (HE40) / Chain 2 : CH 46



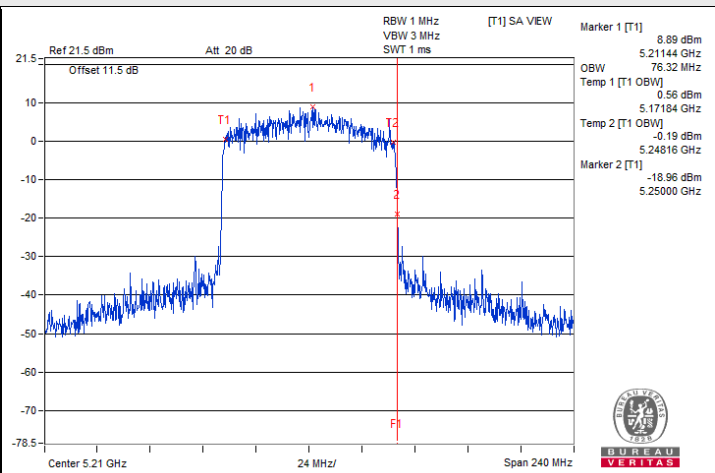
802.11ax (HE40) / Chain 3 : CH 46



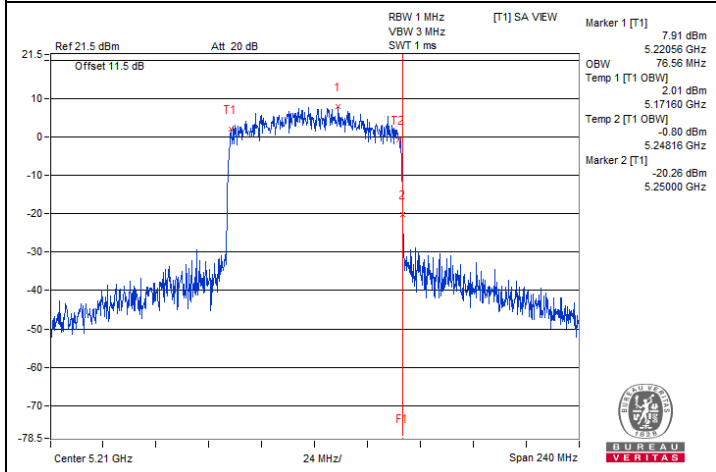
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)



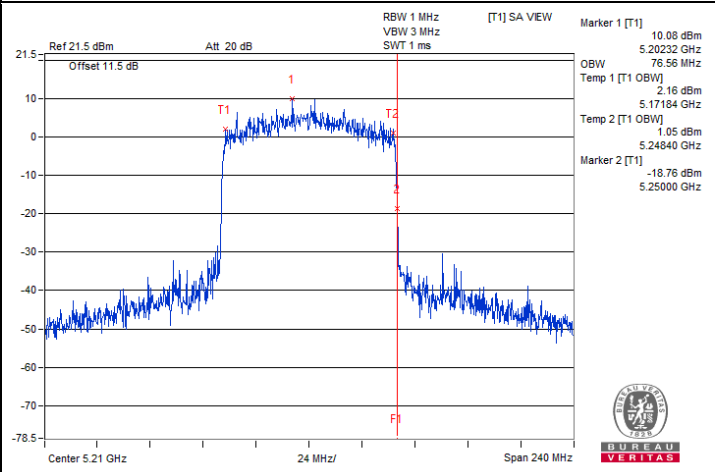
802.11ax (HE80) / Chain 0 : CH 42



802.11ax (HE80) / Chain 1 : CH 42



802.11ax (HE80) / Chain 2 : CH 42



802.11ax (HE80) / Chain 3 : CH 42

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
36	5180	16.44	16.56	16.44	16.44
40	5200	16.44	16.56	16.56	16.44
48	5240	16.56	16.44	16.56	16.56
149	5745	17.48	17.65	17.83	17.65
157	5785	17.64	17.40	17.76	17.76
165	5825	22.56	22.44	22.56	23.04

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	18.96	18.96	18.96	18.96
40	5200	18.96	18.96	18.96	18.96
48	5240	18.72	18.72	18.84	18.84
149	5745	19.32	19.44	19.32	19.44
157	5785	19.68	19.56	19.44	19.56
165	5825	25.92	25.80	25.92	25.80

802.11ax (HE40)

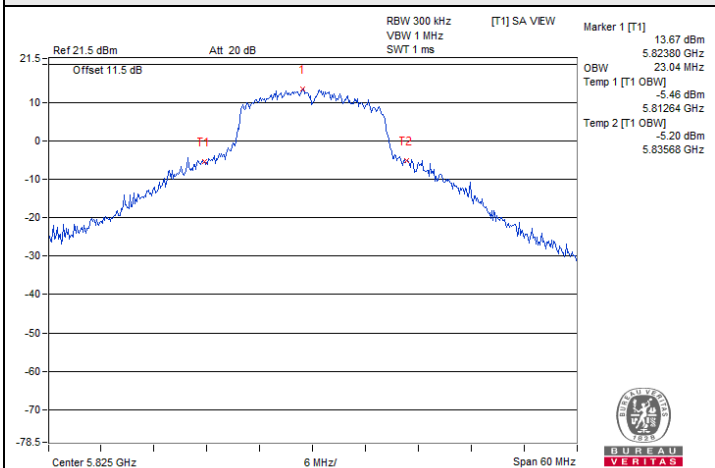
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	37.68	37.56	37.68	37.56
46	5230	37.68	37.68	37.92	37.92
151	5755	38.64	38.64	38.88	38.88
159	5795	38.64	38.64	38.64	38.64

802.11ax (HE80)

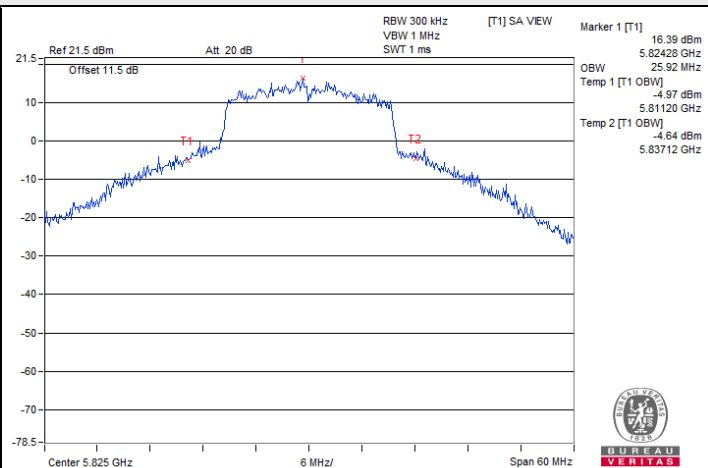
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	76.80	76.56	76.80	76.56
155	5775	76.80	76.80	76.56	76.80



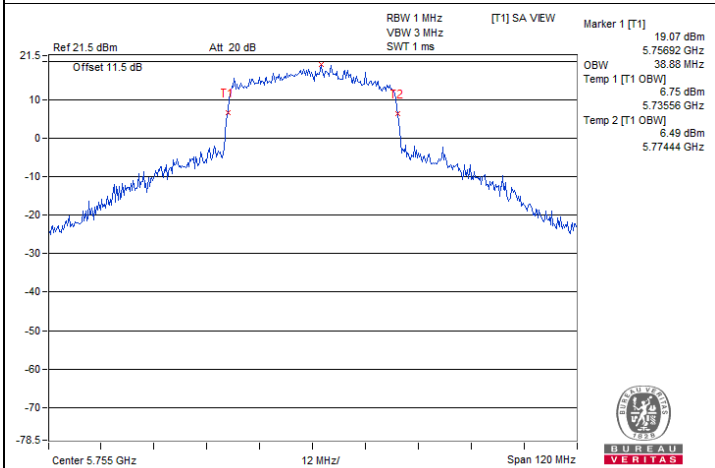
Spectrum Plot of Maximum Value



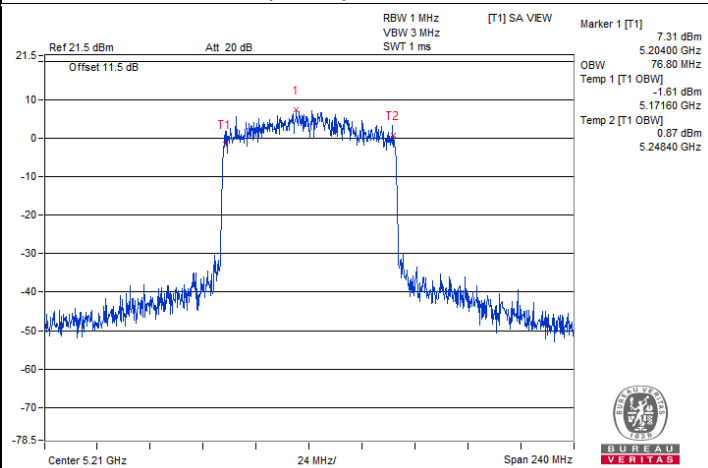
802.11a / Chain3 : CH 165



802.11ax (HE20) / Chain0 : CH 165

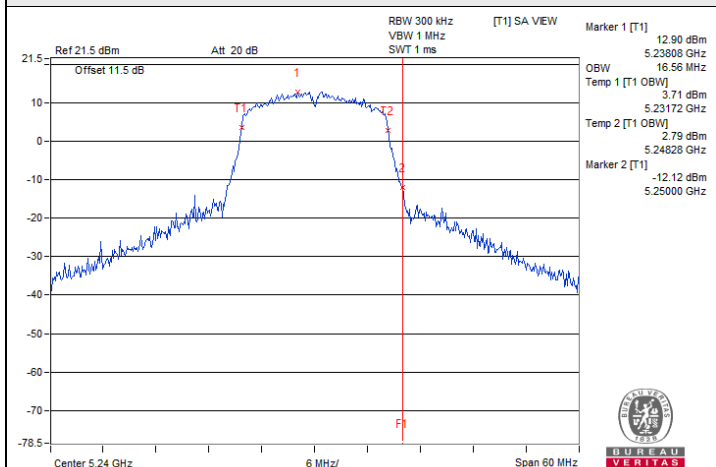
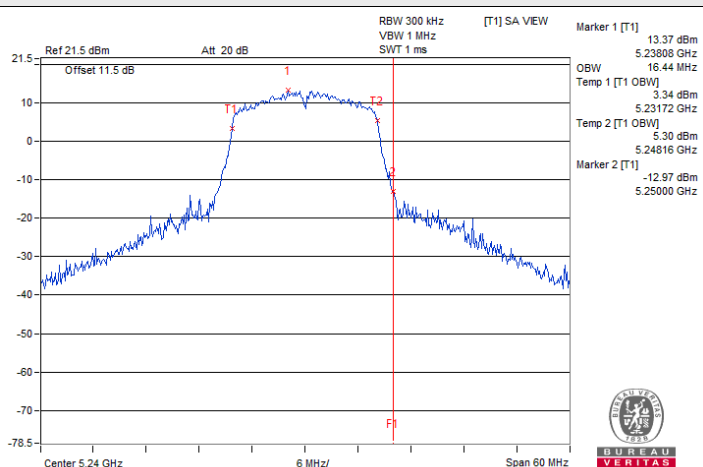
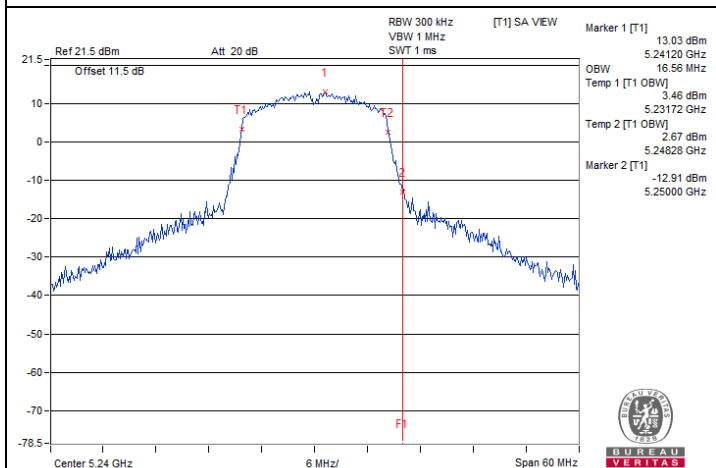
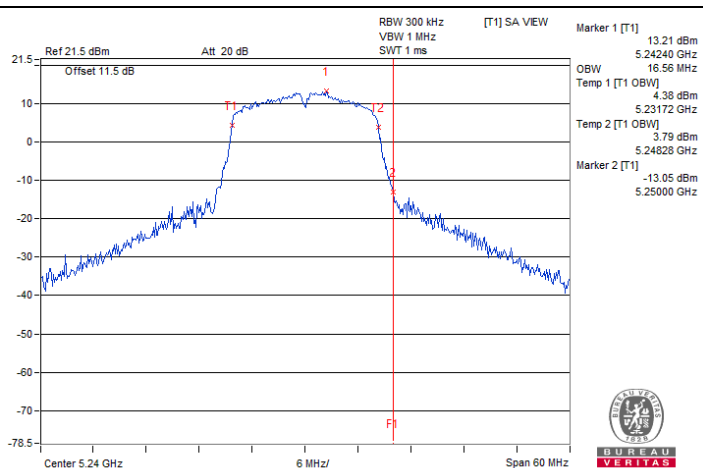
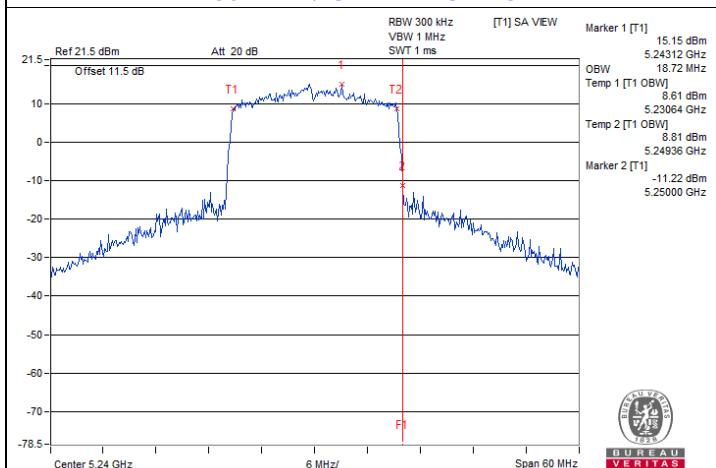
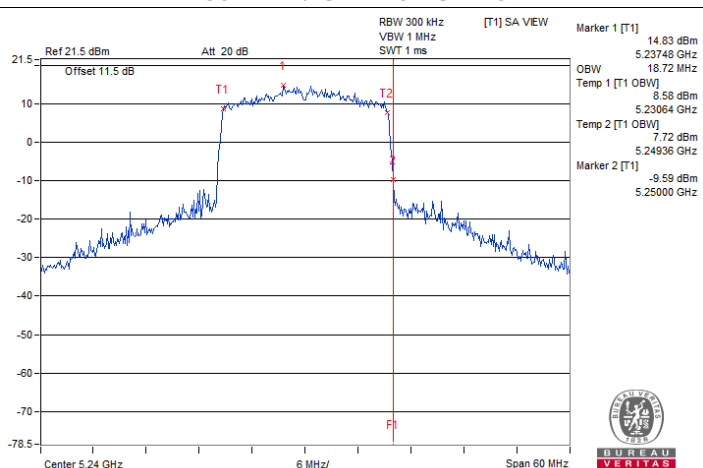


802.11ax (HE40) / Chain2 : CH 151

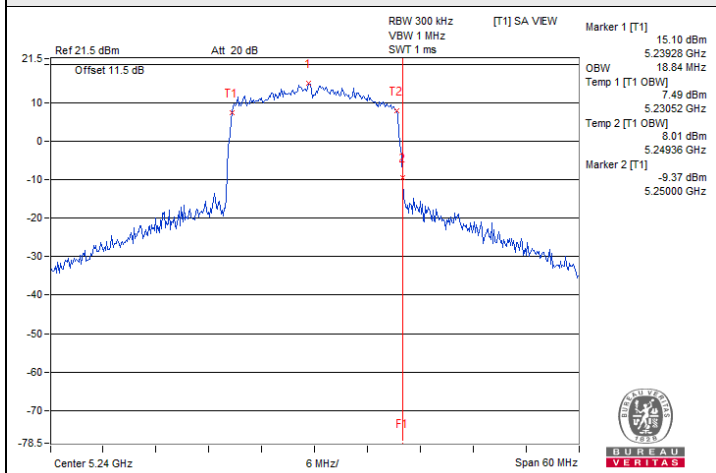


802.11ax (HE80) / Chain0 : CH 42

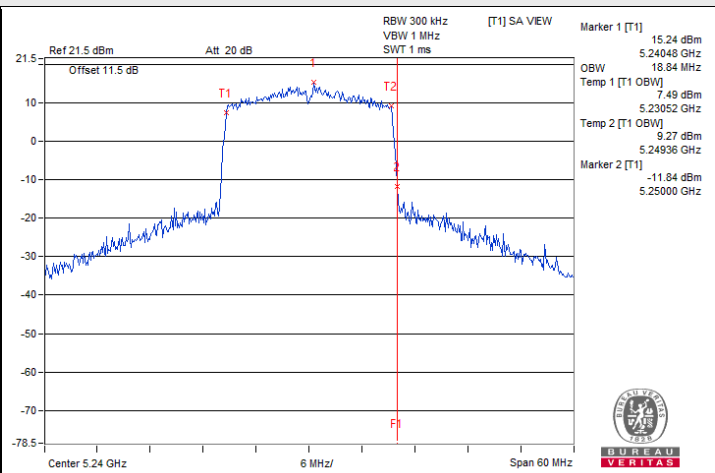
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)

**802.11a / Chain 0 : CH 48****802.11a / Chain 1 : CH 48****802.11a / Chain 2 : CH 48****802.11a / Chain 3 : CH 48****802.11ax (HE20) / Chain 0 : CH 48****802.11ax (HE20) / Chain 1 : CH 48**

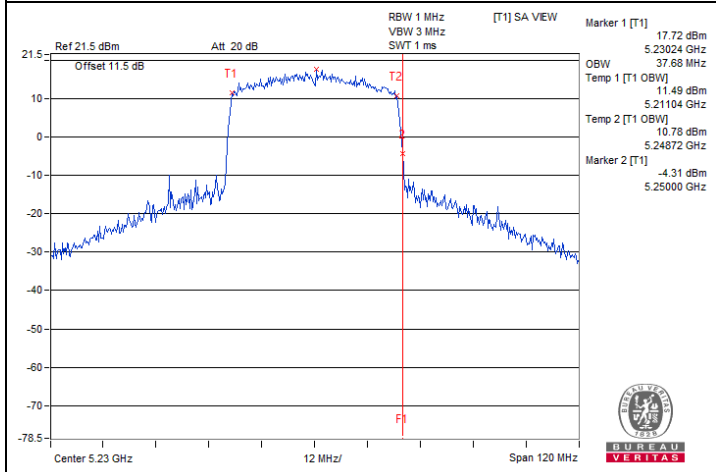
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)



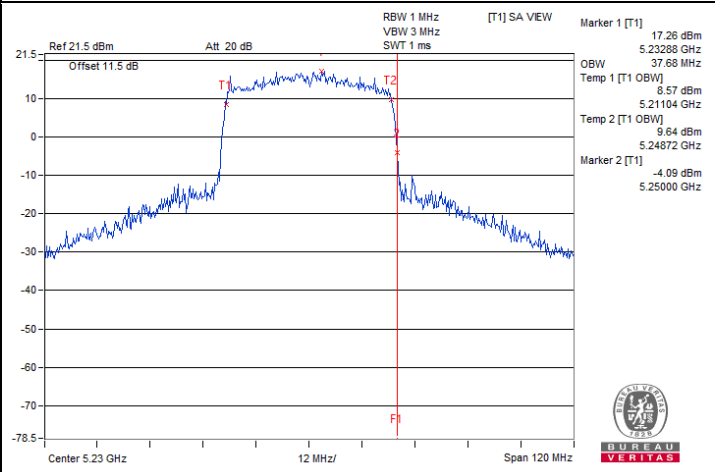
802.11ax (HE20) / Chain 2 : CH 48



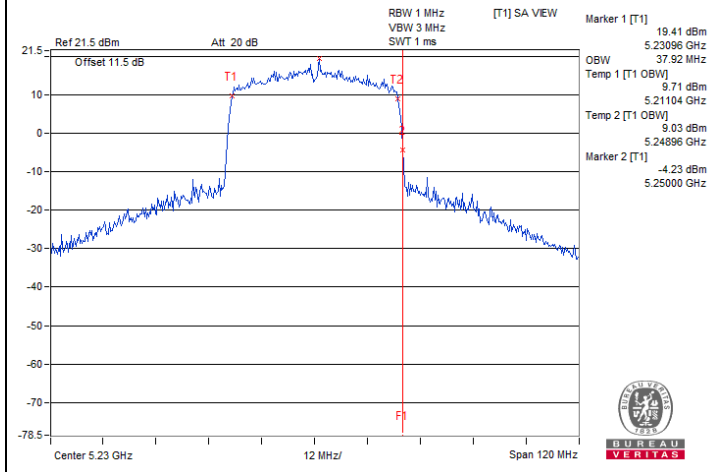
802.11ax (HE20) / Chain 3 : CH 48



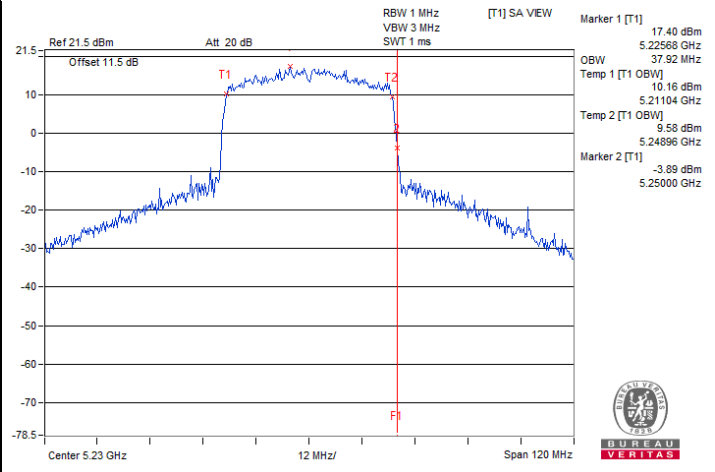
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46



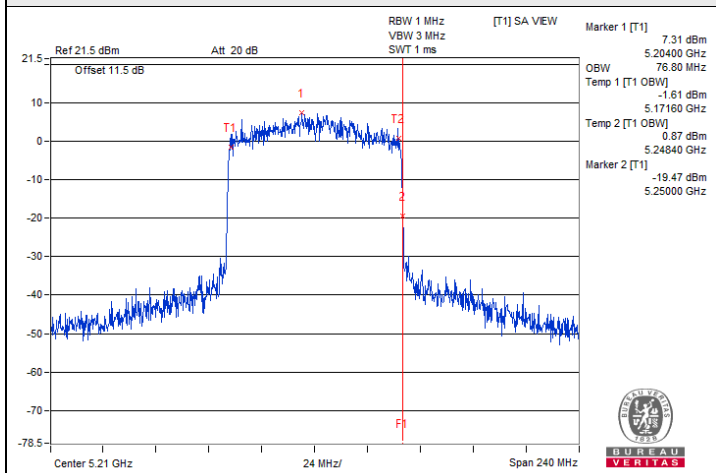
802.11ax (HE40) / Chain 2 : CH 46



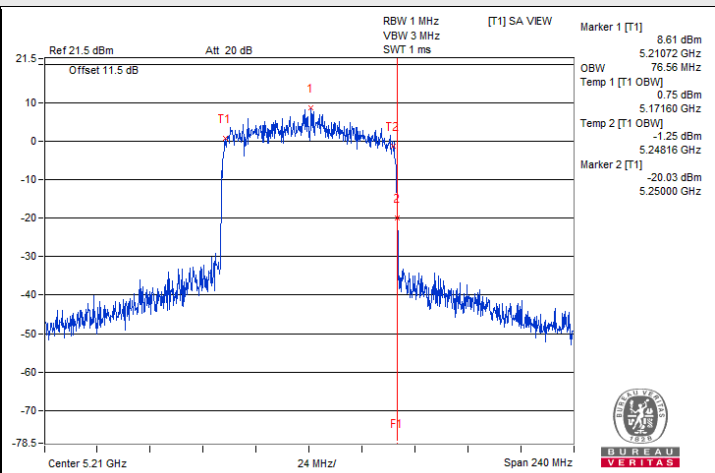
802.11ax (HE40) / Chain 3 : CH 46



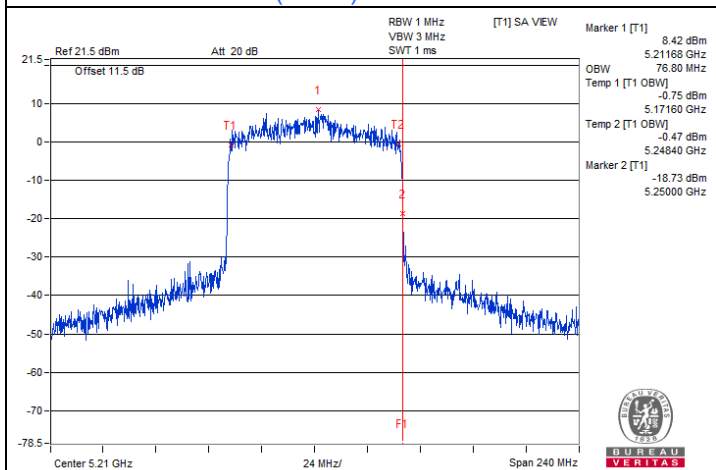
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)



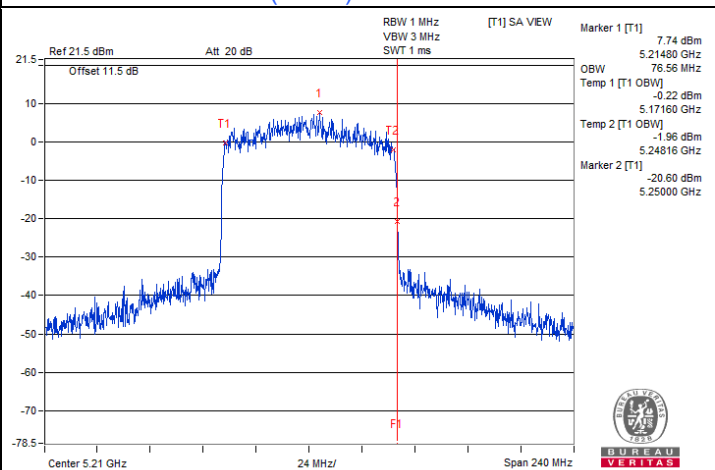
802.11ax (HE80) / Chain 0 : CH 42



802.11ax (HE80) / Chain 1 : CH 42



802.11ax (HE80) / Chain 2 : CH 42

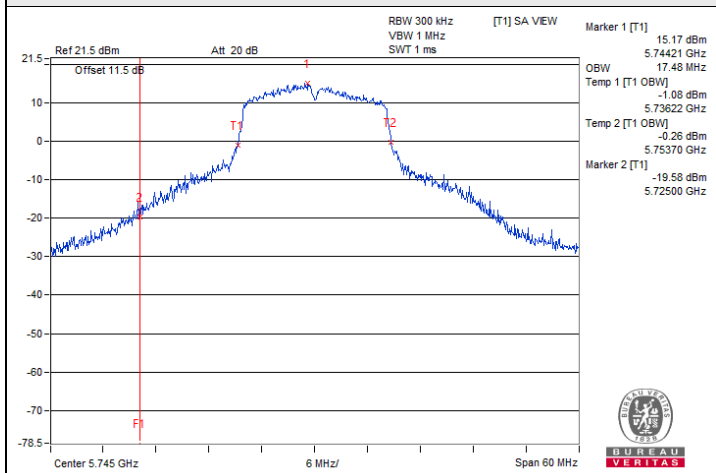


802.11ax (HE80) / Chain 3 : CH 42

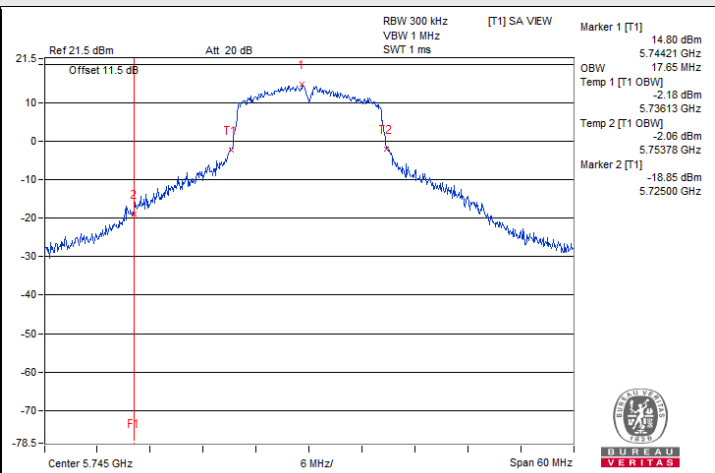


Spectrum Plot for nearby DFS band

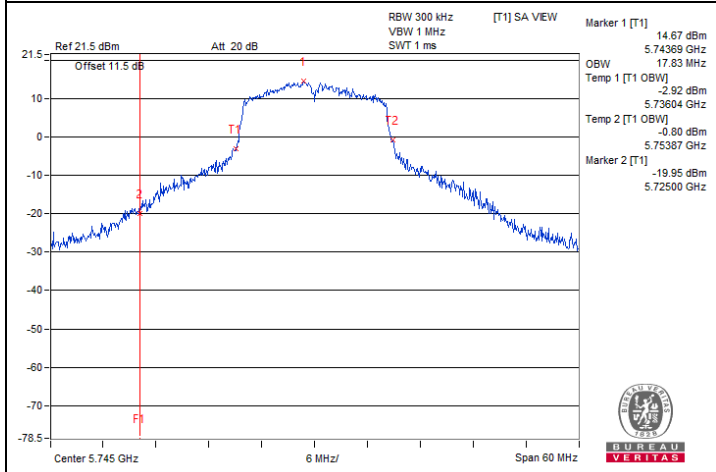
(DFS is required, if 99% OCP straddle into U-NII-2C band)



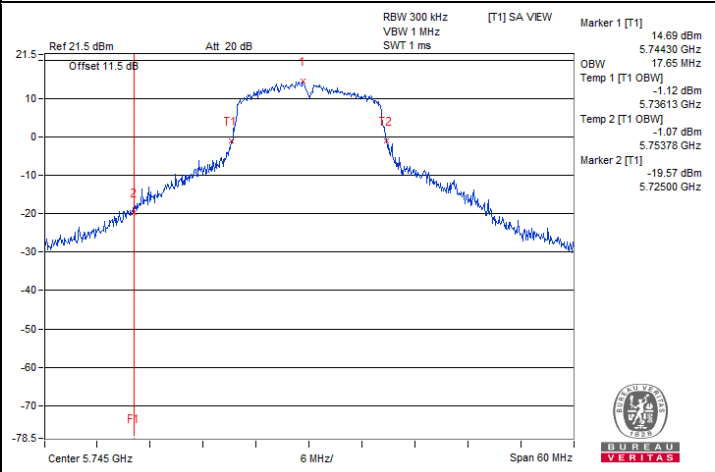
802.11a / Chain 0 : CH 149



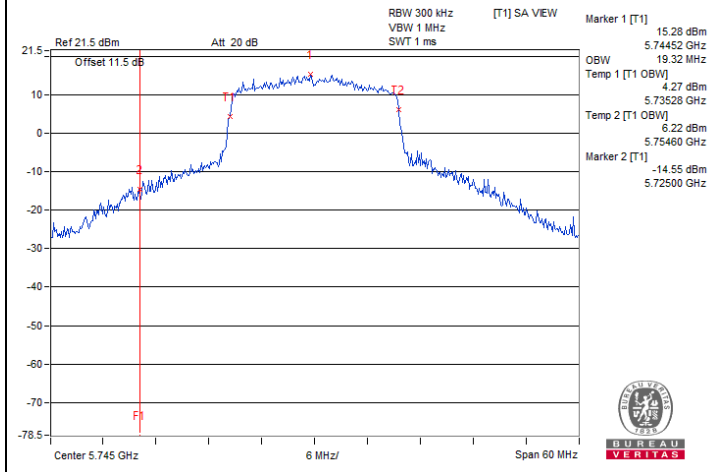
802.11a / Chain 1 : CH 149



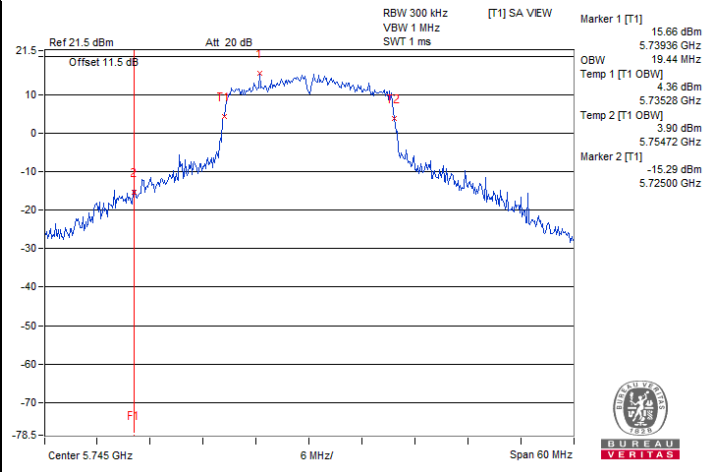
802.11a / Chain 2 : CH 149



802.11a / Chain 3 : CH 149

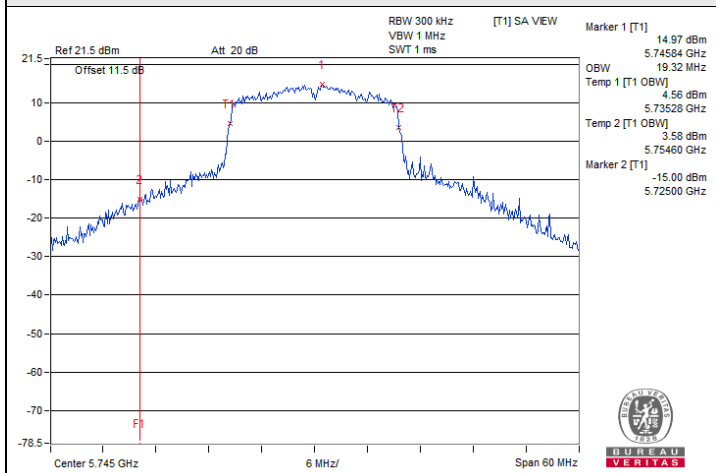
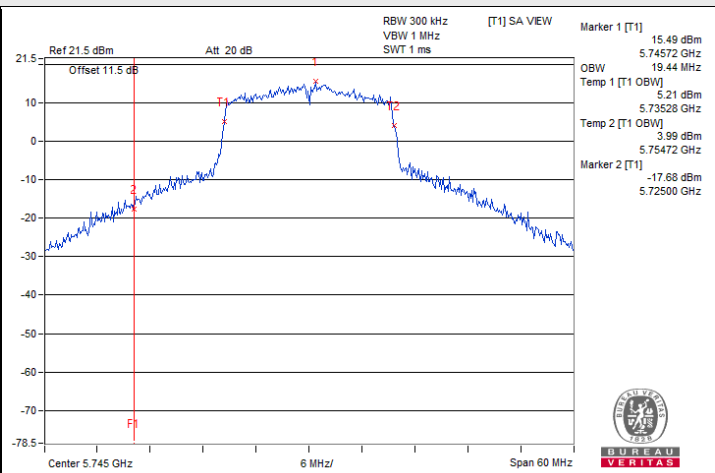
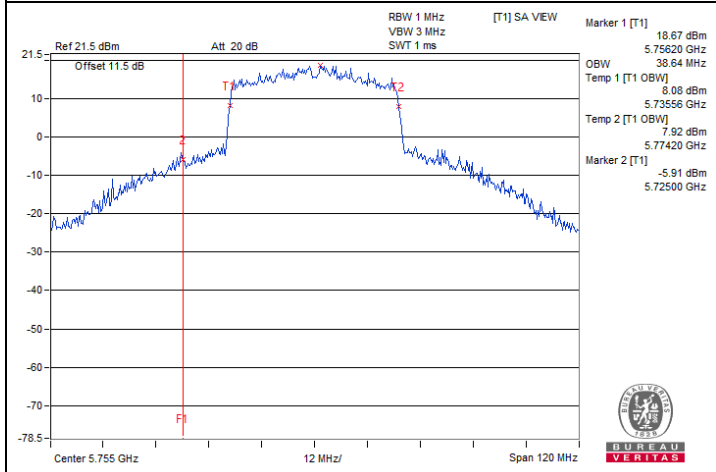
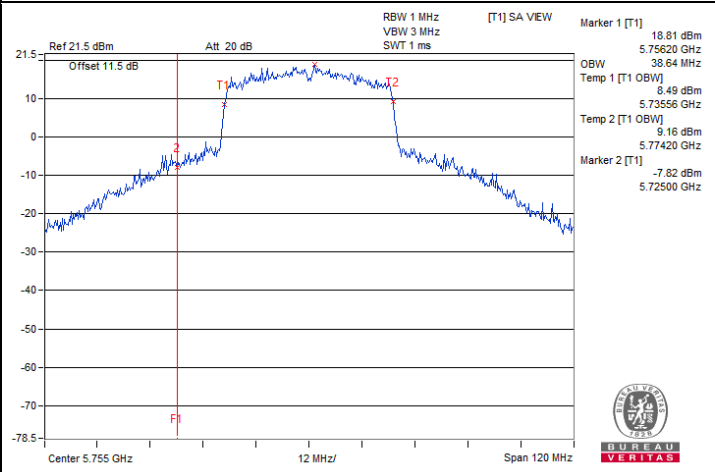
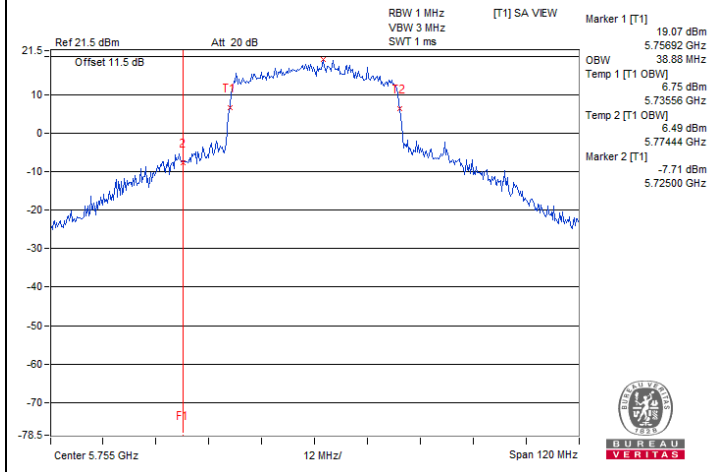
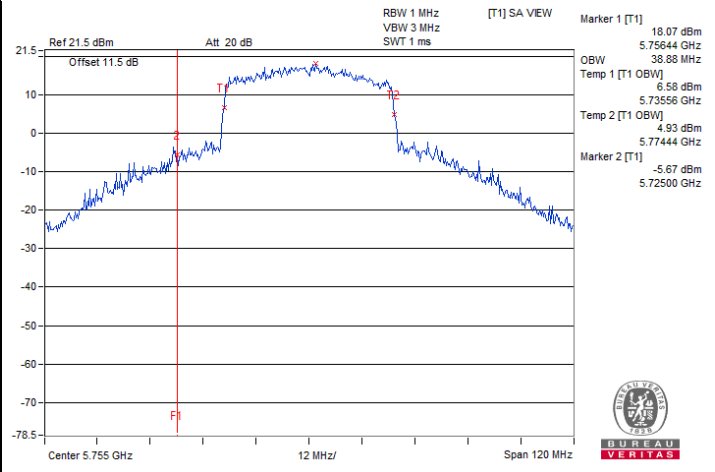


802.11ax (HE20) / Chain 0 : CH 149



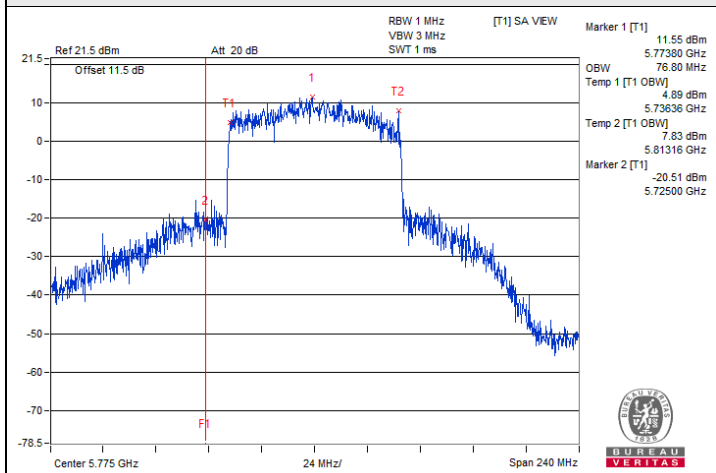
802.11ax (HE20) / Chain 1 : CH 149

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

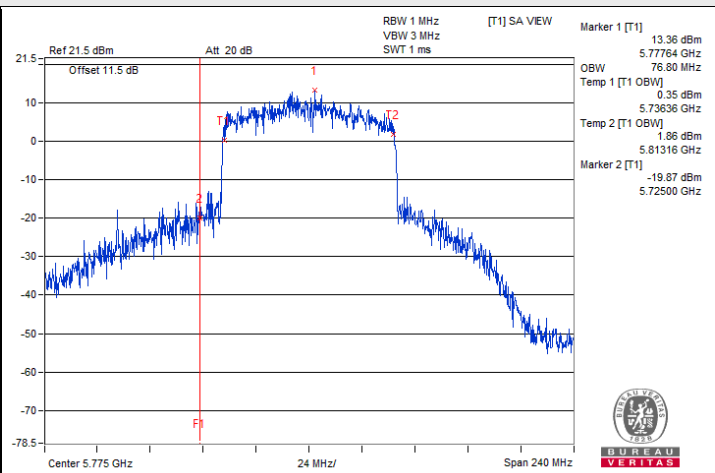
**802.11ax (HE20) / Chain 2 : CH 149****802.11ax (HE20) / Chain 3 : CH 149****802.11ax (HE40) / Chain 0 : CH 151****802.11ax (HE40) / Chain 1 : CH 151****802.11ax (HE40) / Chain 2 : CH 151****802.11ax (HE40) / Chain 3 : CH 151**



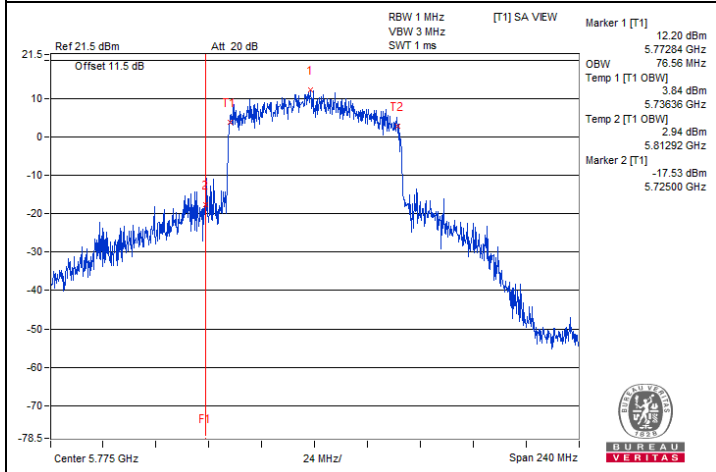
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)



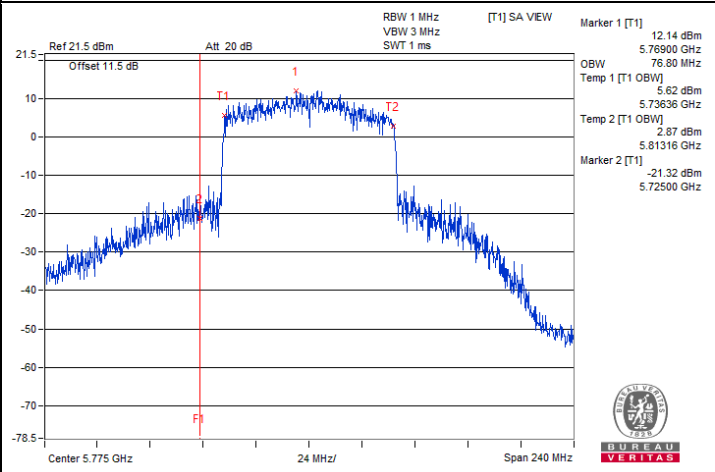
802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155



802.11ax (HE80) / Chain 2 : CH 155



802.11ax (HE80) / Chain 3 : CH 155

Mode 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
149	5745	16.68	16.68	16.68	16.80
157	5785	17.40	17.52	17.52	17.40
165	5825	16.68	16.80	16.68	16.80

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
149	5745	19.08	18.96	19.08	19.08
157	5785	19.32	19.32	19.32	19.20
165	5825	19.08	18.96	19.08	19.20

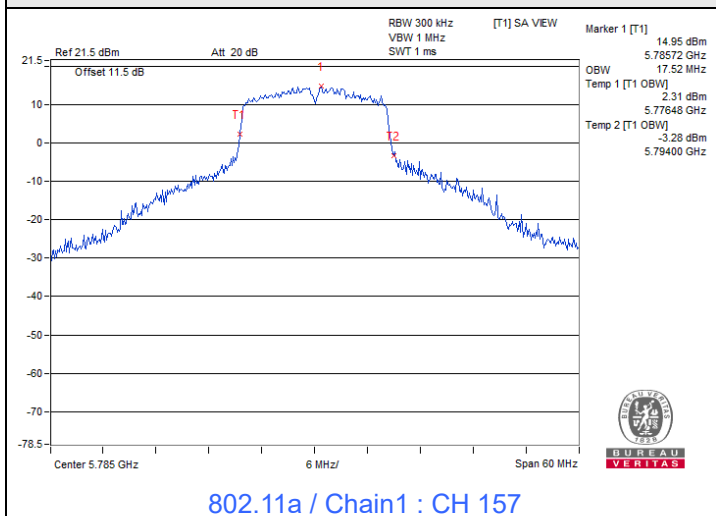
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
151	5755	37.92	37.92	37.92	37.68
159	5795	38.04	37.92	37.92	37.92

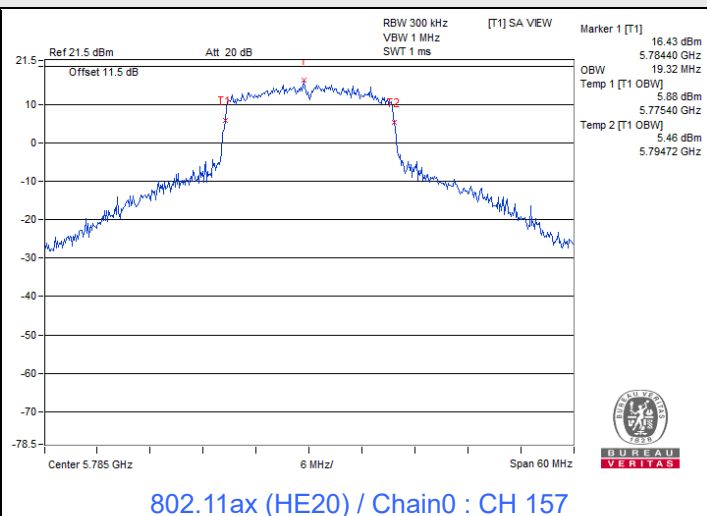
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
155	5775	76.80	76.80	76.80	77.28

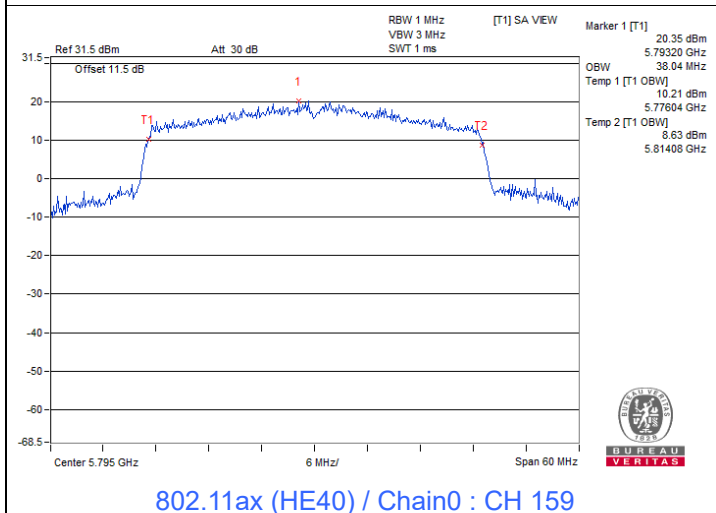
Spectrum Plot of Maximum Value



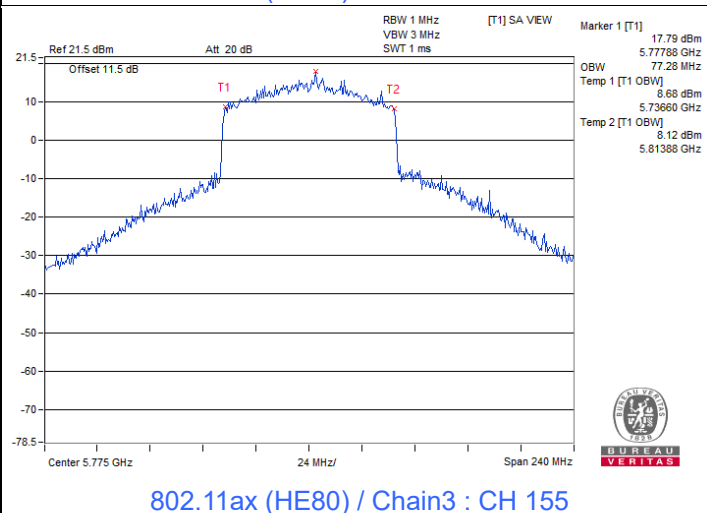
802.11a / Chain1 : CH 157



802.11ax (HE20) / Chain0 : CH 157

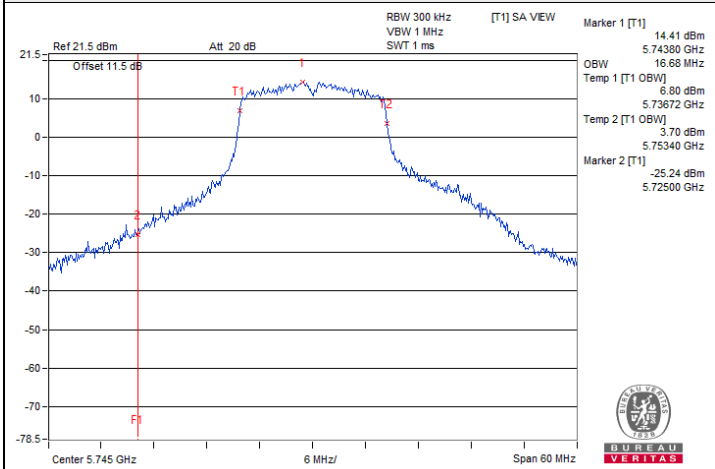


802.11ax (HE40) / Chain0 : CH 159

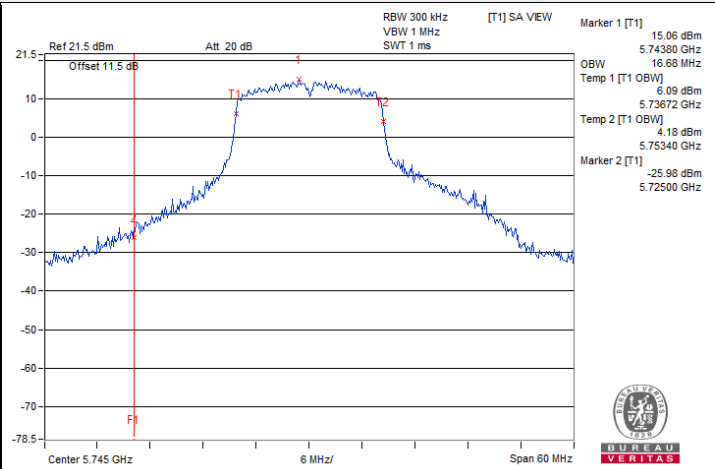


802.11ax (HE80) / Chain3 : CH 155

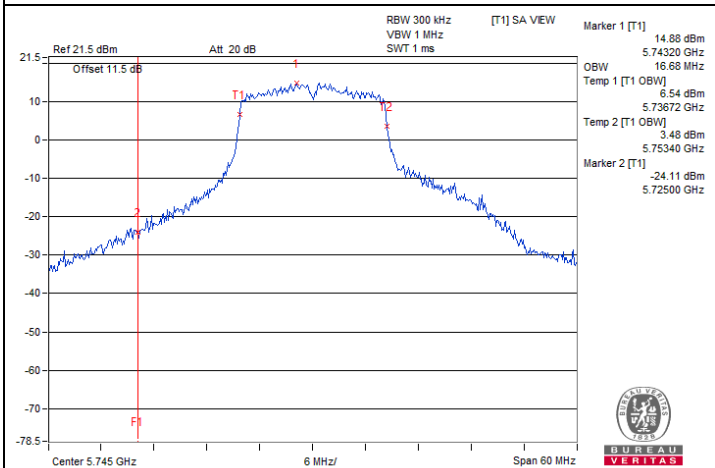
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)



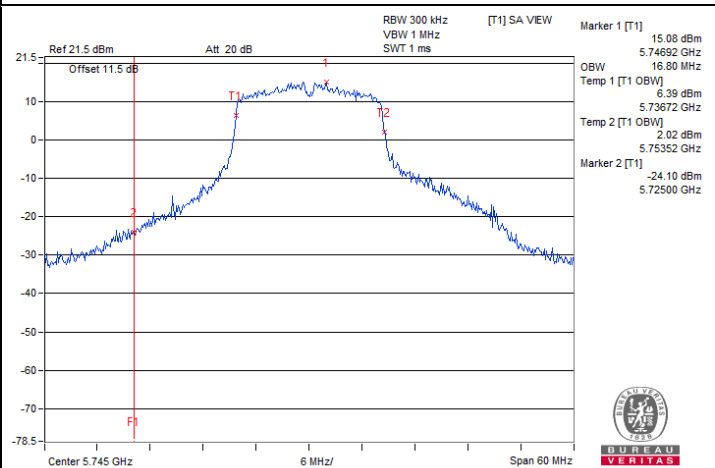
802.11a / Chain 0 : CH 149



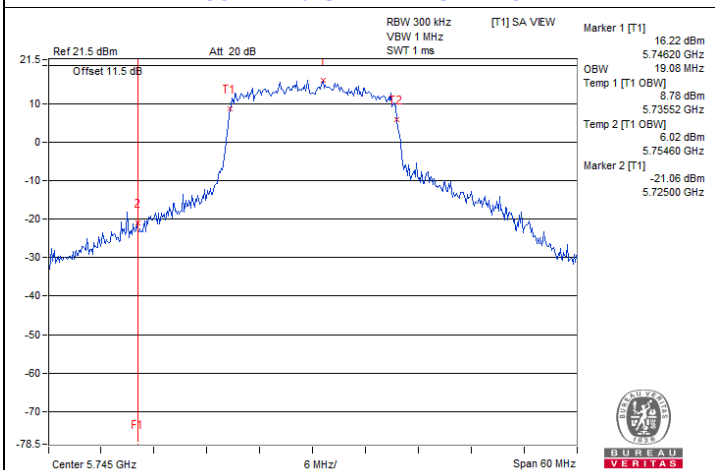
802.11a / Chain 1 : CH 149



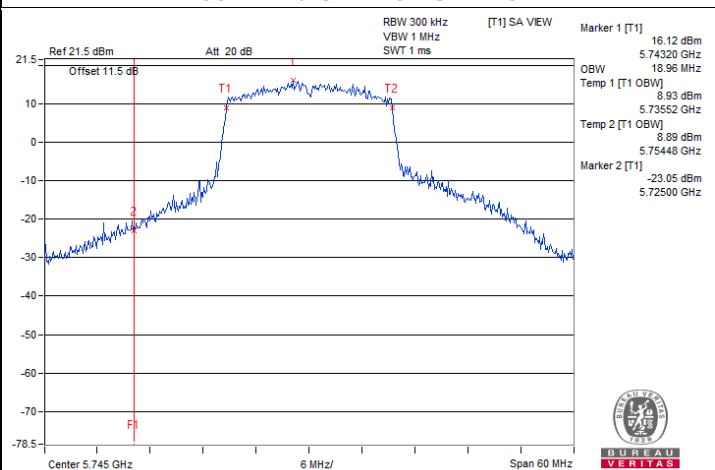
802.11a / Chain 2 : CH 149



802.11a / Chain 3 : CH 149

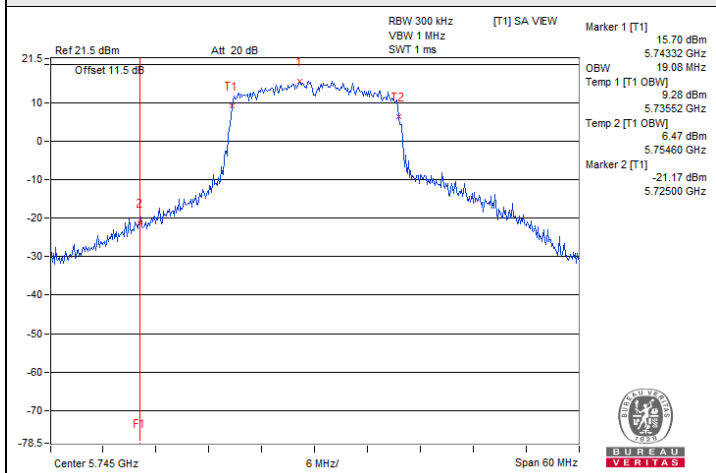
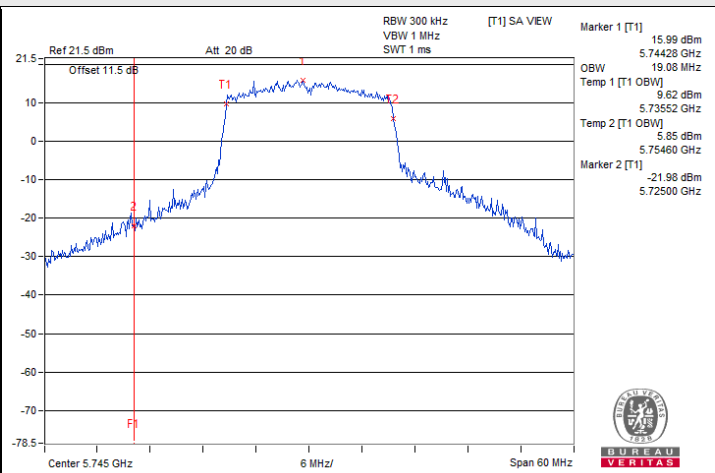
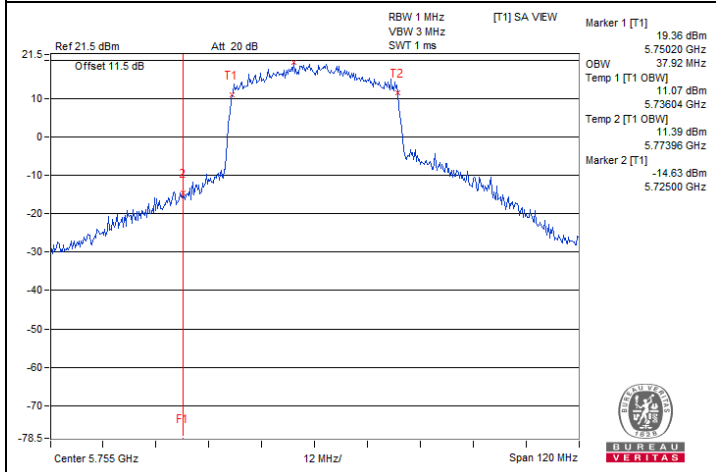
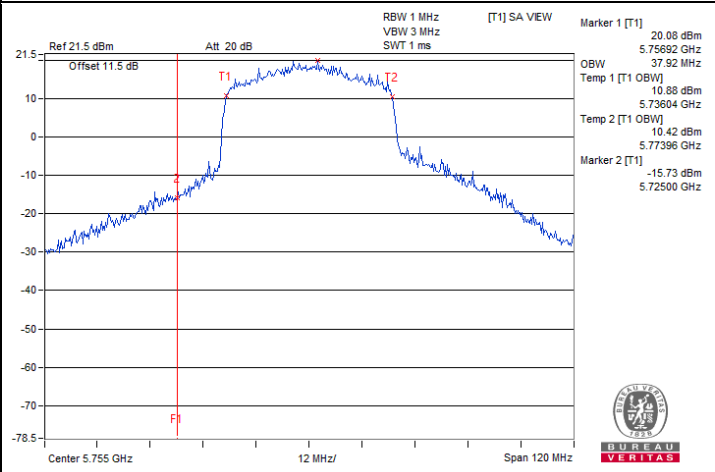
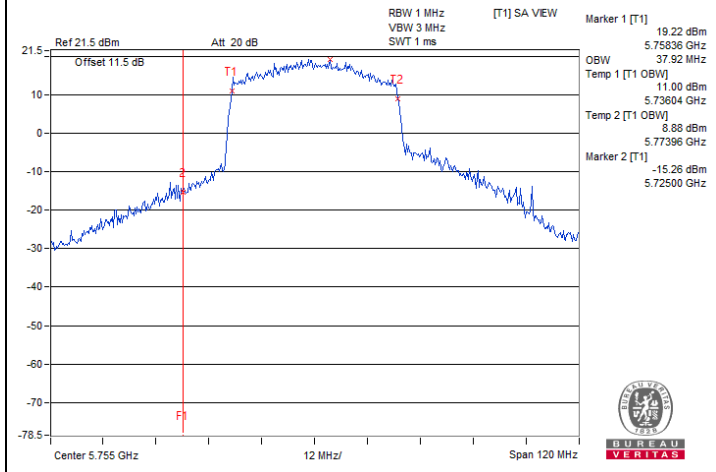
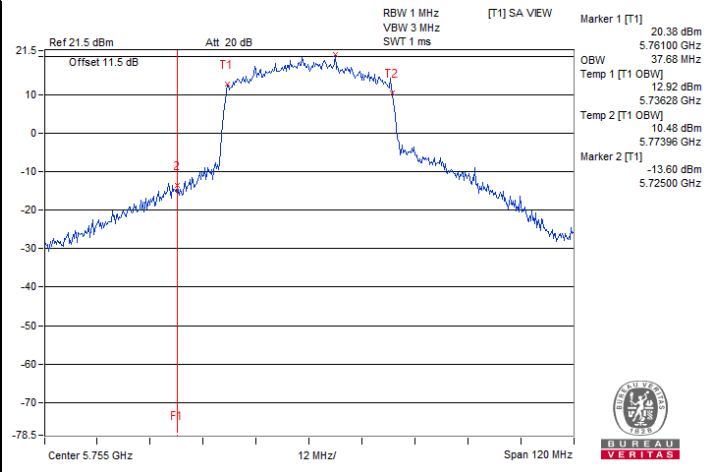


802.11ax (HE20) / Chain 0 : CH 149



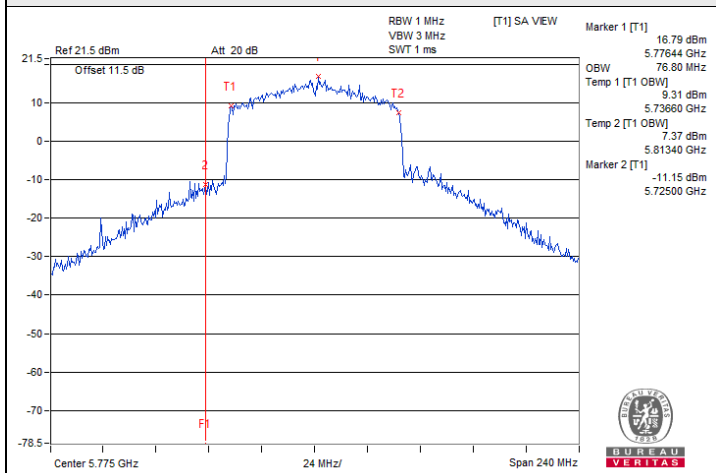
802.11ax (HE20) / Chain 1 : CH 149

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

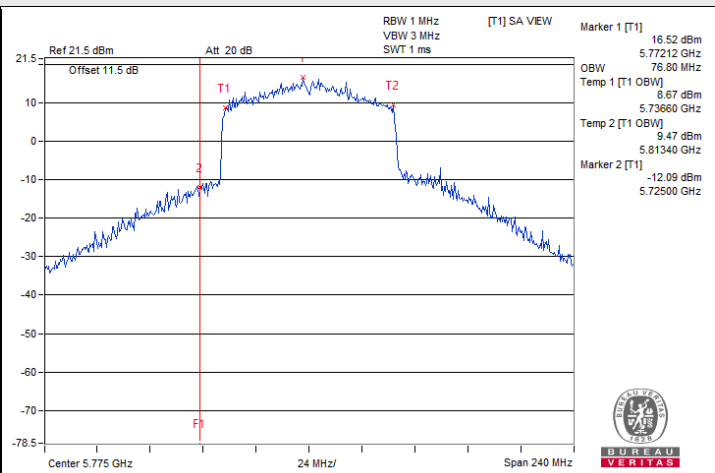
**802.11ax (HE20) / Chain 2 : CH 149****802.11ax (HE20) / Chain 3 : CH 149****802.11ax (HE40) / Chain 0 : CH 151****802.11ax (HE40) / Chain 1 : CH 151****802.11ax (HE40) / Chain 2 : CH 151****802.11ax (HE40) / Chain 3 : CH 151**



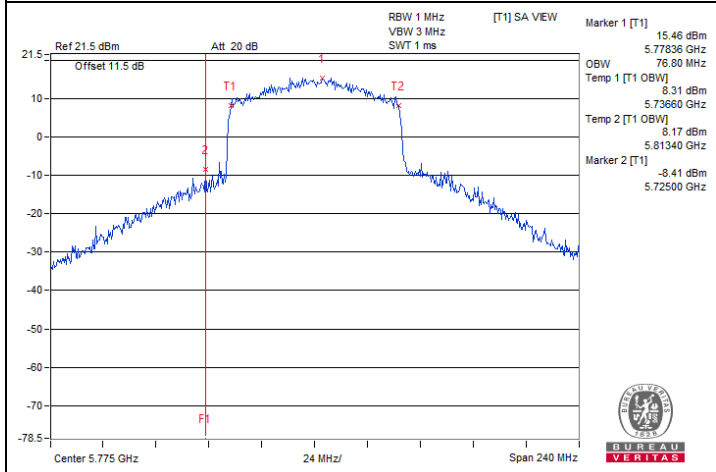
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)



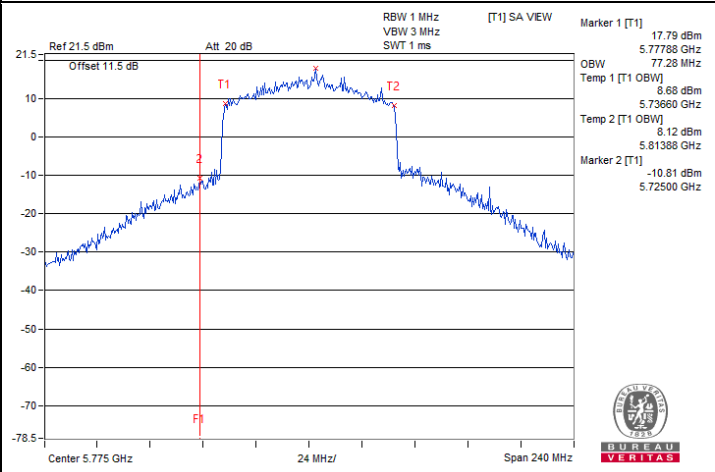
802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155



802.11ax (HE80) / Chain 2 : CH 155



802.11ax (HE80) / Chain 3 : CH 155

7.5 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: 5180 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	5179.9807	Pass	5179.9847	Pass	5179.9816	Pass	5179.9844	Pass
30	120	5180.0089	Pass	5180.0047	Pass	5180.0082	Pass	5180.0081	Pass
20	120	5179.9994	Pass	5180.0021	Pass	5179.9992	Pass	5180.0004	Pass
10	120	5179.9956	Pass	5179.9974	Pass	5179.996	Pass	5179.9964	Pass
5	120	5180.0125	Pass	5180.0122	Pass	5180.0116	Pass	5180.0134	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	138	5180.0001	Pass	5180.0023	Pass	5180.0047	Pass	5180.0033	Pass
	120	5179.9994	Pass	5180.0021	Pass	5179.9992	Pass	5180.0004	Pass
	102	5180.0037	Pass	5180.004	Pass	5180.0003	Pass	5180.0024	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: 5180 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	5179.9799	Pass	5179.9839	Pass	5179.9808	Pass	5179.9798	Pass
30	120	5180.018	Pass	5180.0176	Pass	5180.0211	Pass	5180.0211	Pass
20	120	5179.9986	Pass	5180.0013	Pass	5179.9984	Pass	5179.9996	Pass
10	120	5179.9947	Pass	5179.9965	Pass	5179.9951	Pass	5179.9955	Pass
5	120	5180.0117	Pass	5180.0114	Pass	5180.0108	Pass	5180.0126	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	138	5180.0005	Pass	5179.9975	Pass	5179.9999	Pass	5180.0005	Pass
	120	5179.9986	Pass	5180.0013	Pass	5179.9984	Pass	5179.9996	Pass
	102	5180.0037	Pass	5180.004	Pass	5180.0055	Pass	5180.0076	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: 5745 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	5745.0085	Pass	5745.0073	Pass	5745.0096	Pass	5745.0085	Pass
30	120	5744.9934	Pass	5744.993	Pass	5744.9911	Pass	5744.9911	Pass
20	120	5745.0294	Pass	5745.0267	Pass	5745.0291	Pass	5745.0305	Pass
10	120	5744.9845	Pass	5744.9806	Pass	5744.9847	Pass	5744.9852	Pass
5	120	5744.9964	Pass	5744.9961	Pass	5744.9954	Pass	5744.9974	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5745 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	5745.028	Pass	5745.0247	Pass	5745.0274	Pass	5745.0281	Pass
	120	5745.0294	Pass	5745.0267	Pass	5745.0291	Pass	5745.0305	Pass
	102	5745.0374	Pass	5745.032	Pass	5745.0337	Pass	5745.036	Pass

7.6 AC Power Conducted Emissions

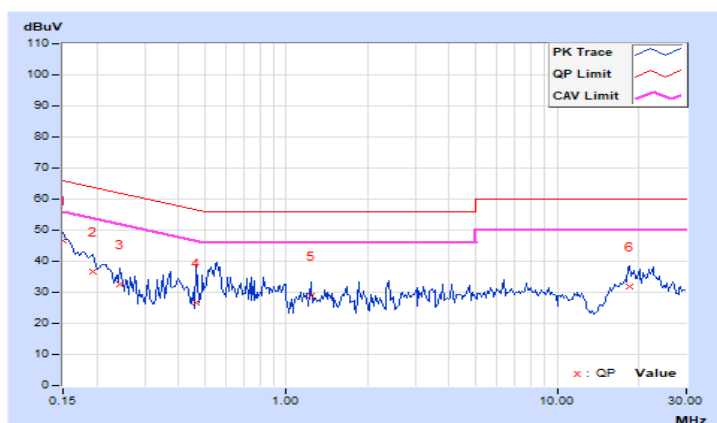
Mode A

RF Mode	TX 802.11ax (HE40)	Channel	CH 46 : 5230 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	0.15000	10.04	36.46	23.34	46.50	33.38	66.00	56.00	-19.50	-22.62
2	0.19297	10.05	26.74	15.83	36.79	25.88	63.91	53.91	-27.12	-28.03
3	0.24375	10.05	22.61	13.98	32.66	24.03	61.97	51.97	-29.31	-27.94
4	0.46250	10.06	16.43	5.31	26.49	15.37	56.65	46.65	-30.16	-31.28
5	1.23047	10.13	18.65	10.92	28.78	21.05	56.00	46.00	-27.22	-24.95
6	18.53906	11.24	20.52	14.50	31.76	25.74	60.00	50.00	-28.24	-24.26

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

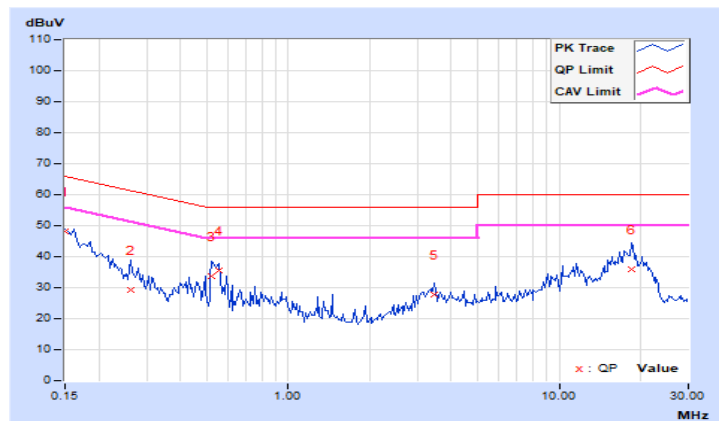


RF Mode	TX 802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 67% RH
Tested By	Sampson Chen		

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	0.15000	10.04	38.06	23.36	48.10	33.40	66.00	56.00	-17.90	-22.60
2	0.26328	10.05	19.22	10.53	29.27	20.58	61.33	51.33	-32.06	-30.75
3	0.52109	10.07	23.45	13.77	33.52	23.84	56.00	46.00	-22.48	-22.16
4	0.55234	10.07	25.51	24.07	35.58	34.14	56.00	46.00	-20.42	-11.86
5	3.47656	10.26	17.65	9.27	27.91	19.53	56.00	46.00	-28.09	-26.47
6	18.48047	11.03	24.99	19.40	36.02	30.43	60.00	50.00	-23.98	-19.57

Remarks:

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



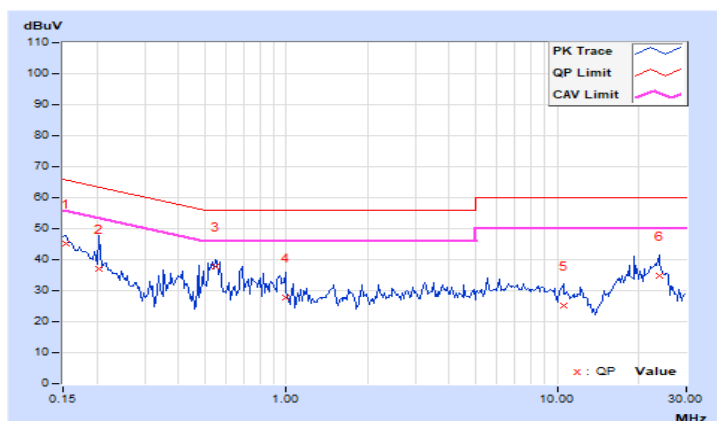
Mode B

RF Mode	TX 802.11ax (HE20)	Channel	CH 165 : 5825 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	35.18	22.43	45.22	32.47	65.79	55.79	-20.57	-23.32
2	0.20469	10.05	27.10	15.60	37.15	25.65	63.42	53.42	-26.27	-27.77
3	0.54844	10.07	27.60	25.24	37.67	35.31	56.00	46.00	-18.33	-10.69
4	0.99375	10.11	17.60	11.79	27.71	21.90	56.00	46.00	-28.29	-24.10
5	10.52344	10.76	14.27	7.15	25.03	17.91	60.00	50.00	-34.97	-32.09
6	23.83594	11.39	23.37	17.26	34.76	28.65	60.00	50.00	-25.24	-21.35

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

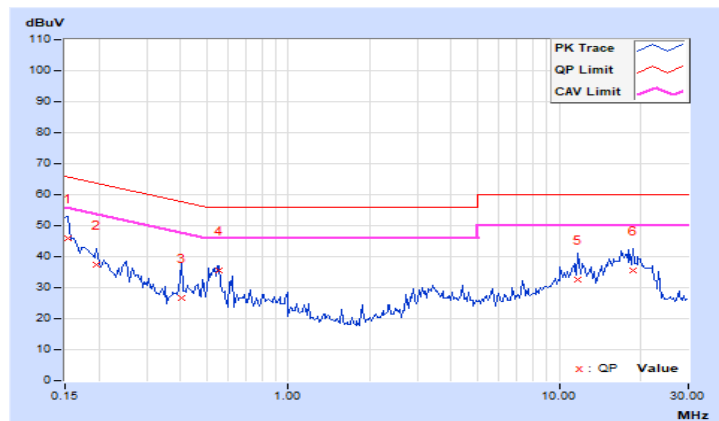


RF Mode	TX 802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 67% RH
Tested By	Sampson Chen		

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	35.82	20.12	45.86	30.16	65.79	55.79	-19.93	-25.63
2	0.19687	10.05	27.40	12.32	37.45	22.37	63.74	53.74	-26.29	-31.37
3	0.40391	10.06	16.47	10.37	26.53	20.43	57.77	47.77	-31.24	-27.34
4	0.55234	10.07	25.47	23.27	35.54	33.34	56.00	46.00	-20.46	-12.66
5	11.76172	10.73	21.87	15.93	32.60	26.66	60.00	50.00	-27.40	-23.34
6	18.68750	11.04	24.55	18.64	35.59	29.68	60.00	50.00	-24.41	-20.32

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



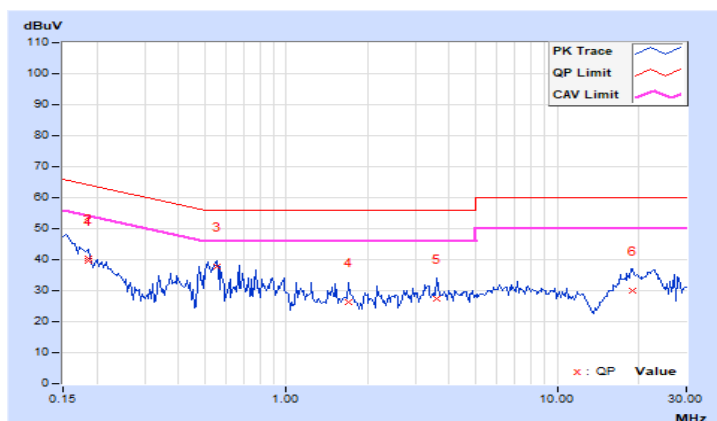
Mode C

RF Mode	TX 802.11ax (HE80)	Channel	CH 155 : 5775 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	0.18516	10.05	29.73	17.38	39.78	27.43	64.25	54.25	-24.47	-26.82
2	0.18516	10.05	30.41	17.42	40.46	27.47	64.25	54.25	-23.79	-26.78
3	0.55234	10.07	27.58	26.31	37.65	36.38	56.00	46.00	-18.35	-9.62
4	1.69531	10.16	16.18	11.68	26.34	21.84	56.00	46.00	-29.66	-24.16
5	3.60938	10.28	17.19	9.60	27.47	19.88	56.00	46.00	-28.53	-26.12
6	19.00000	11.26	18.66	11.59	29.92	22.85	60.00	50.00	-30.08	-27.15

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

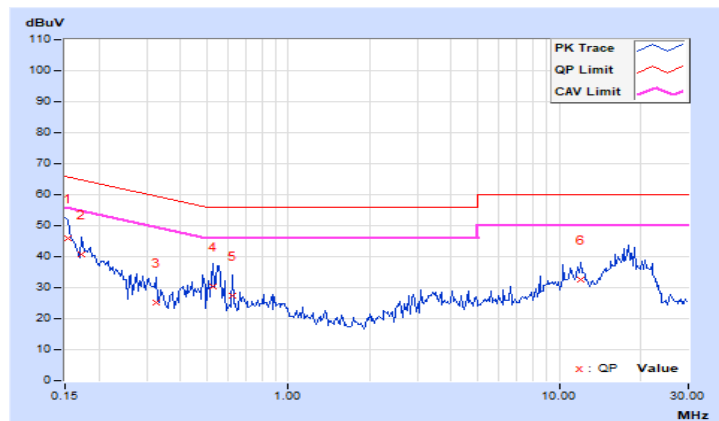


RF Mode	TX 802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 67% RH
Tested By	Sampson Chen		

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	35.88	20.16	45.92	30.20	65.79	55.79	-19.87	-25.59
2	0.17344	10.04	30.73	14.48	40.77	24.52	64.79	54.79	-24.02	-30.27
3	0.32578	10.06	15.08	7.48	25.14	17.54	59.56	49.56	-34.42	-32.02
4	0.52500	10.07	20.41	11.24	30.48	21.31	56.00	46.00	-25.52	-24.69
5	0.62266	10.08	17.28	0.19	27.36	10.27	56.00	46.00	-28.64	-35.73
6	12.03125	10.74	21.69	15.87	32.43	26.61	60.00	50.00	-27.57	-23.39

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



7.7 Unwanted Emissions below 1 GHz

Mode A

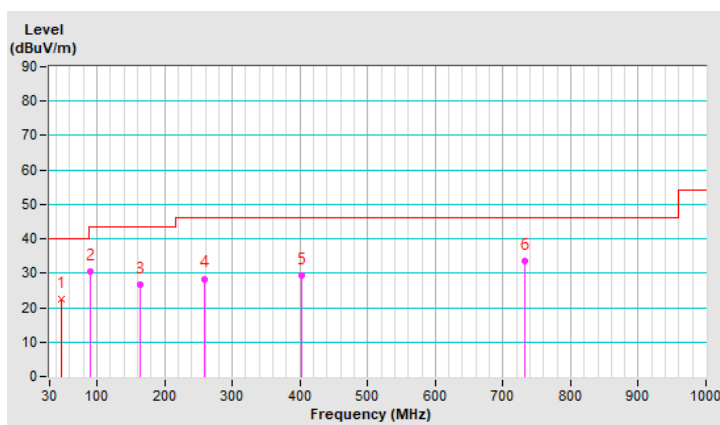
RF Mode	TX 802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 73% RH
Tested By	Sampson Chen		

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	47.30	22.6 QP	40.0	-17.4	1.00 H	210	35.4	-12.8
2	90.30	30.4 QP	43.5	-13.1	1.00 H	252	49.0	-18.6
3	163.70	26.7 QP	43.5	-16.8	1.50 H	194	39.6	-12.9
4	258.70	28.4 QP	46.0	-17.6	1.50 H	204	42.2	-13.8
5	401.70	29.4 QP	46.0	-16.6	1.50 H	289	39.2	-9.8
6	731.80	33.4 QP	46.0	-12.6	1.00 H	243	36.7	-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.

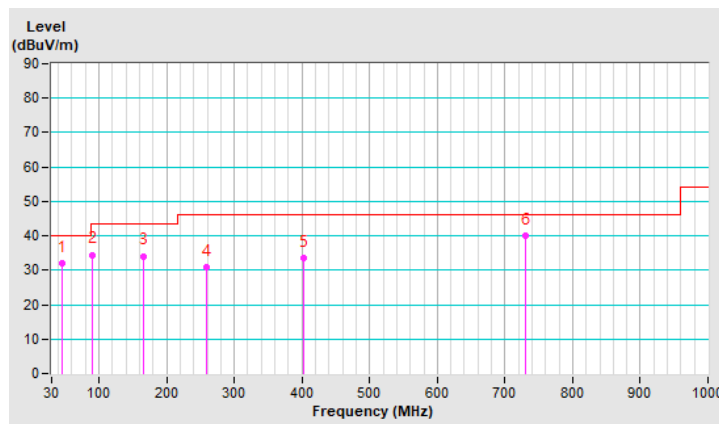


RF Mode	TX 802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 73% RH
Tested By	Sampson Chen		

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	46.40	32.1 QP	40.0	-7.9	1.00 V	26	44.8	-12.7
2	89.40	34.5 QP	43.5	-9.0	1.00 V	261	53.1	-18.6
3	166.70	34.1 QP	43.5	-9.4	1.50 V	198	47.1	-13.0
4	258.30	30.8 QP	46.0	-15.2	1.50 V	204	44.6	-13.8
5	401.80	33.7 QP	46.0	-12.3	1.50 V	297	43.5	-9.8
6	731.20	40.1 QP	46.0	-5.9	1.00 V	228	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 B

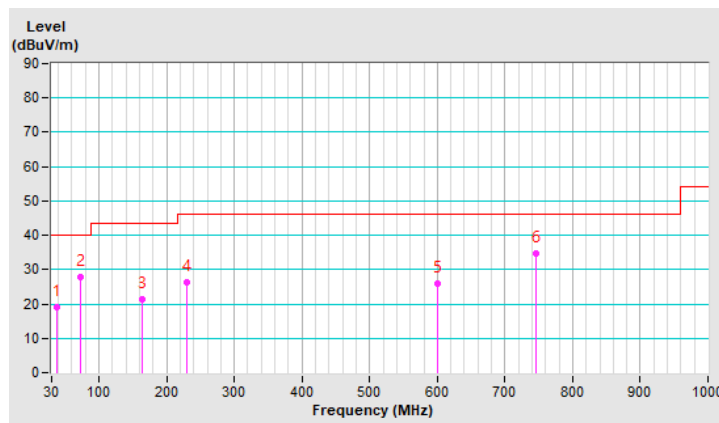
RF Mode	TX 802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 73% RH
Tested By	Sampson Chen		

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	38.41	19.0 QP	40.0	-21.0	1.00 H	221	32.3	-13.3
2	72.86	27.7 QP	40.0	-12.3	3.00 H	269	43.4	-15.7
3	163.41	21.2 QP	43.5	-22.3	2.00 H	67	34.0	-12.8
4	228.86	26.4 QP	46.0	-19.6	1.50 H	229	42.0	-15.6
5	601.24	25.8 QP	46.0	-20.2	1.50 H	94	30.9	-5.1
6	745.26	34.7 QP	46.0	-11.3	1.00 H	105	37.6	-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.



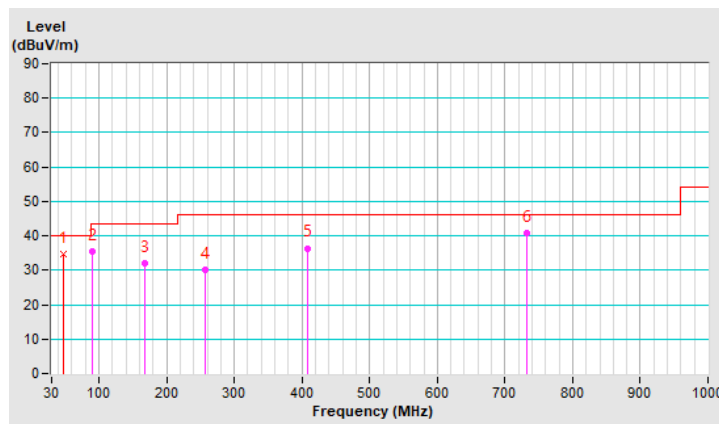


RF Mode	TX 802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 73% RH
Tested By	Sampson Chen		

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	48.12	34.8 QP	40.0	-5.2	1.00 V	19	47.5	-12.7
2	90.38	35.4 QP	43.5	-8.1	1.00 V	248	54.0	-18.6
3	168.41	31.9 QP	43.5	-11.6	1.50 V	201	45.0	-13.1
4	257.89	29.9 QP	46.0	-16.1	1.50 V	196	43.7	-13.8
5	407.40	36.4 QP	46.0	-9.6	1.50 V	298	46.1	-9.7
6	732.47	40.9 QP	46.0	-5.1	1.00 V	235	44.2	-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

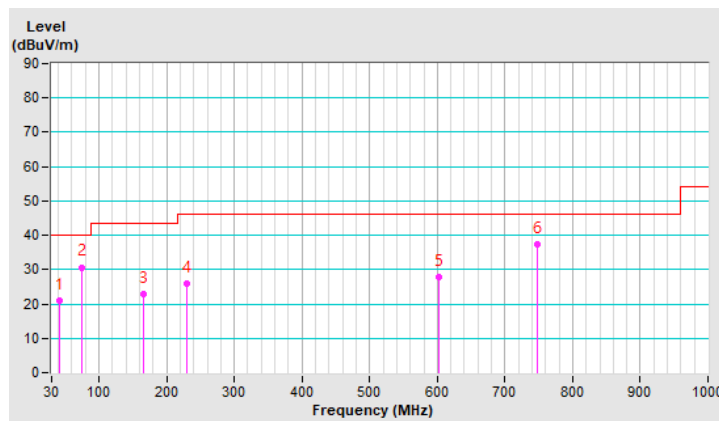
RF Mode	TX 802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 73% RH
Tested By	Sampson Chen		

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	41.28	20.8 QP	40.0	-19.2	1.00 H	225	33.8	-13.0
2	74.68	30.7 QP	40.0	-9.3	3.00 H	271	46.7	-16.0
3	165.93	23.0 QP	43.5	-20.5	2.00 H	68	35.9	-12.9
4	230.68	25.9 QP	46.0	-20.1	1.50 H	231	41.3	-15.4
5	602.18	27.9 QP	46.0	-18.1	1.50 H	96	33.0	-5.1
6	747.62	37.4 QP	46.0	-8.6	1.00 H	106	40.2	-2.8

Remarks:

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

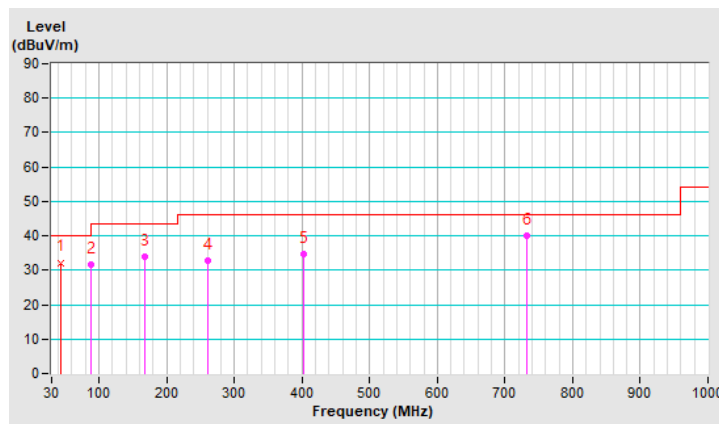


RF Mode	TX 802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 73% RH
Tested By	Sampson Chen		

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	43.68	32.2 QP	40.0	-7.8	1.00 V	19	45.1	-12.9
2	87.40	31.5 QP	40.0	-8.5	1.00 V	257	50.1	-18.6
3	167.42	33.9 QP	43.5	-9.6	1.50 V	205	47.0	-13.1
4	261.55	32.9 QP	46.0	-13.1	1.50 V	193	46.6	-13.7
5	403.32	34.6 QP	46.0	-11.4	1.50 V	301	44.3	-9.7
6	731.87	39.9 QP	46.0	-6.1	1.00 V	238	43.2	-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.



7.8 Unwanted Emissions above 1 GHz

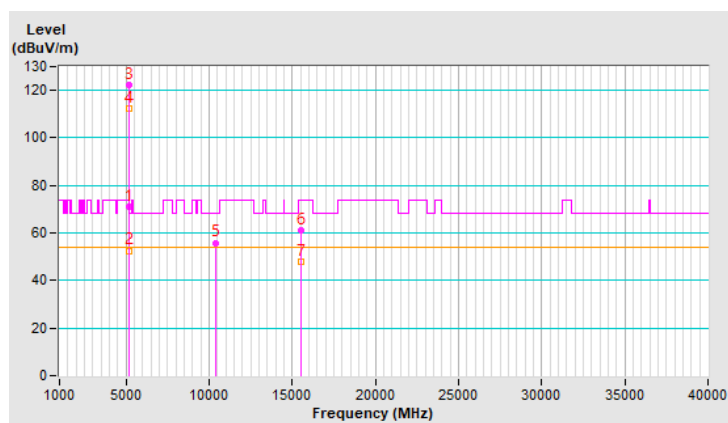
Mode A

RF Mode	TX 802.11a	Channel	CH 36 : 5180 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	71.0 PK	74.0	-3.0	1.52 H	83	68.6	2.4
2	5150.00	52.6 AV	54.0	-1.4	1.52 H	83	50.2	2.4
3	*5180.00	122.1 PK			1.52 H	83	119.9	2.2
4	*5180.00	112.2 AV			1.52 H	83	110.0	2.2
5	#10360.00	55.9 PK	68.2	-12.3	1.53 H	193	44.2	11.7
6	15540.00	61.2 PK	74.0	-12.8	1.62 H	143	49.4	11.8
7	15540.00	48.1 AV	54.0	-5.9	1.62 H	143	36.3	11.8

Remarks:

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

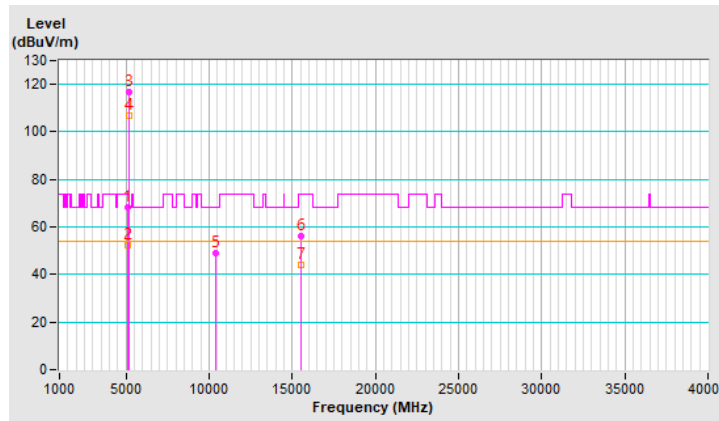


RF Mode	TX 802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	5144.00	68.4 PK	74.0	-5.6	1.50 V	360	66.0	2.4
2	5144.00	52.1 AV	54.0	-1.9	1.50 V	360	49.7	2.4
3	*5180.00	116.9 PK			1.50 V	360	114.7	2.2
4	*5180.00	107.0 AV			1.50 V	360	104.8	2.2
5	#10360.00	49.1 PK	68.2	-19.1	1.47 V	205	37.4	11.7
6	15540.00	56.2 PK	74.0	-17.8	1.39 V	207	44.4	11.8
7	15540.00	43.8 AV	54.0	-10.2	1.39 V	207	32.0	11.8

Remarks:

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



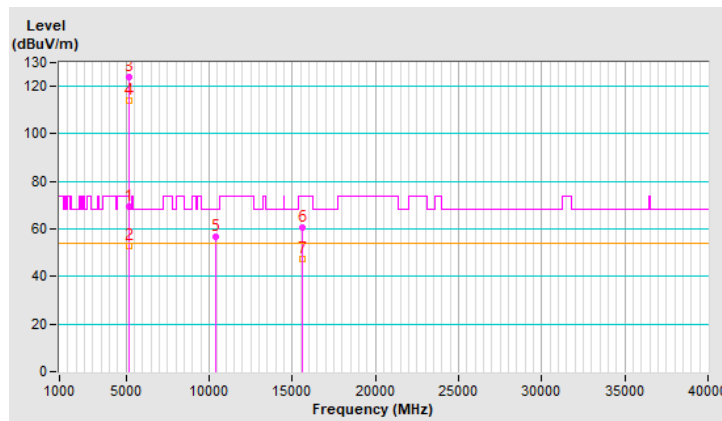
RF Mode	TX 802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	69.6 PK	74.0	-4.4	1.67 H	277	67.2	2.4
2	5150.00	52.9 AV	54.0	-1.1	1.67 H	277	50.5	2.4
3	*5200.00	123.9 PK			1.67 H	277	121.8	2.1
4	*5200.00	114.0 AV			1.67 H	277	111.9	2.1
5	#10400.00	56.5 PK	68.2	-11.7	1.60 H	208	44.6	11.9
6	15600.00	60.5 PK	74.0	-13.5	1.63 H	131	49.0	11.5
7	15600.00	47.6 AV	54.0	-6.4	1.63 H	131	36.1	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.

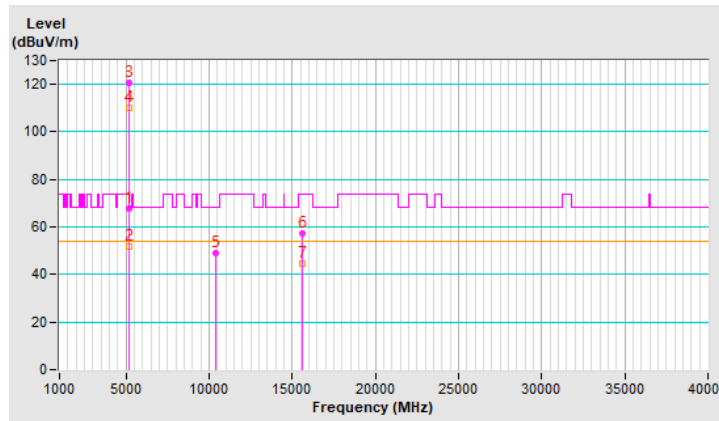


RF Mode	TX 802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	67.6 PK	74.0	-6.4	1.40 V	341	65.2	2.4
2	5150.00	51.8 AV	54.0	-2.2	1.40 V	341	49.4	2.4
3	*5200.00	120.6 PK			1.40 V	341	118.5	2.1
4	*5200.00	110.3 AV			1.40 V	341	108.2	2.1
5	#10400.00	49.0 PK	68.2	-19.2	1.52 V	214	37.1	11.9
6	15600.00	57.4 PK	74.0	-16.6	1.46 V	194	45.9	11.5
7	15600.00	44.6 AV	54.0	-9.4	1.46 V	194	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.



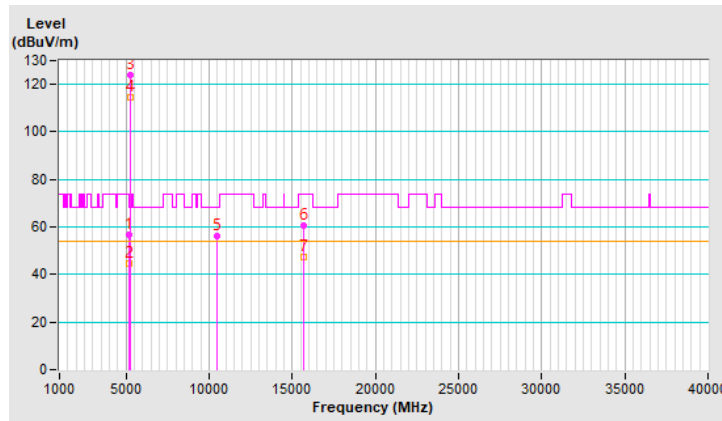
RF Mode	TX 802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	56.7 PK	74.0	-17.3	1.78 H	278	54.3	2.4
2	5150.00	44.4 AV	54.0	-9.6	1.78 H	278	42.0	2.4
3	*5240.00	124.0 PK			1.78 H	278	122.1	1.9
4	*5240.00	114.4 AV			1.78 H	278	112.5	1.9
5	#10480.00	56.4 PK	68.2	-11.8	1.55 H	196	44.5	11.9
6	15720.00	60.5 PK	74.0	-13.5	1.65 H	139	48.8	11.7
7	15720.00	47.6 AV	54.0	-6.4	1.65 H	139	35.9	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.
6. " # " : The radiated frequency is out of the restricted band.

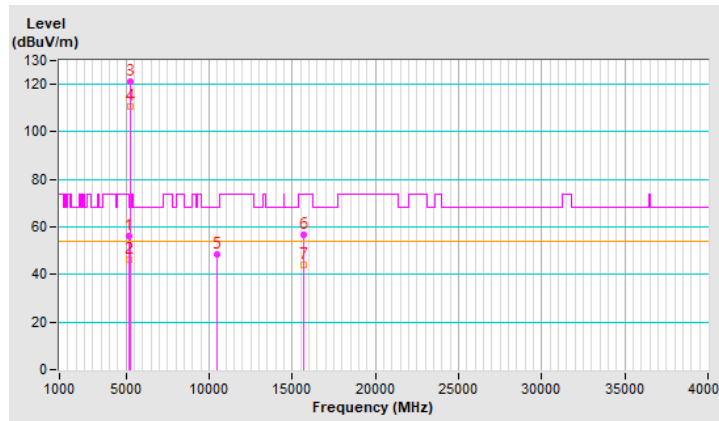


RF Mode	TX 802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	56.0 PK	74.0	-18.0	1.55 V	353	53.6	2.4
2	5150.00	46.5 AV	54.0	-7.5	1.55 V	353	44.1	2.4
3	*5240.00	121.0 PK			1.55 V	353	119.1	1.9
4	*5240.00	110.5 AV			1.55 V	353	108.6	1.9
5	#10480.00	48.7 PK	68.2	-19.5	1.49 V	202	36.8	11.9
6	15720.00	56.7 PK	74.0	-17.3	1.42 V	191	45.0	11.7
7	15720.00	44.2 AV	54.0	-9.8	1.42 V	191	32.5	11.7

Remarks:

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

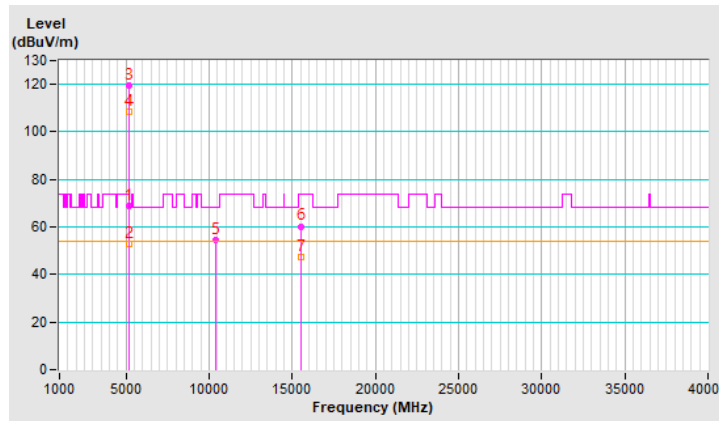


RF Mode	TX 802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	68.8 PK	74.0	-5.2	1.43 H	72	66.4	2.4
2	5150.00	52.8 AV	54.0	-1.2	1.43 H	72	50.4	2.4
3	*5180.00	119.5 PK			1.43 H	72	117.3	2.2
4	*5180.00	108.4 AV			1.43 H	72	106.2	2.2
5	#10360.00	54.3 PK	68.2	-13.9	1.59 H	209	42.6	11.7
6	15540.00	60.3 PK	74.0	-13.7	1.69 H	147	48.5	11.8
7	15540.00	47.6 AV	54.0	-6.4	1.69 H	147	35.8	11.8

Remarks:

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

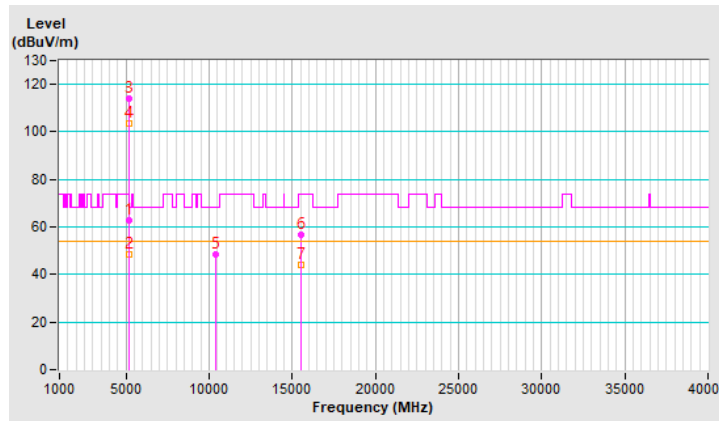


RF Mode	TX 802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	63.0 PK	74.0	-11.0	1.82 V	148	60.6	2.4
2	5150.00	48.6 AV	54.0	-5.4	1.82 V	148	46.2	2.4
3	*5180.00	114.0 PK			1.82 V	148	111.8	2.2
4	*5180.00	103.6 AV			1.82 V	148	101.4	2.2
5	#10360.00	48.6 PK	68.2	-19.6	1.52 V	200	36.9	11.7
6	15540.00	56.5 PK	74.0	-17.5	1.45 V	184	44.7	11.8
7	15540.00	44.2 AV	54.0	-9.8	1.45 V	184	32.4	11.8

Remarks:

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

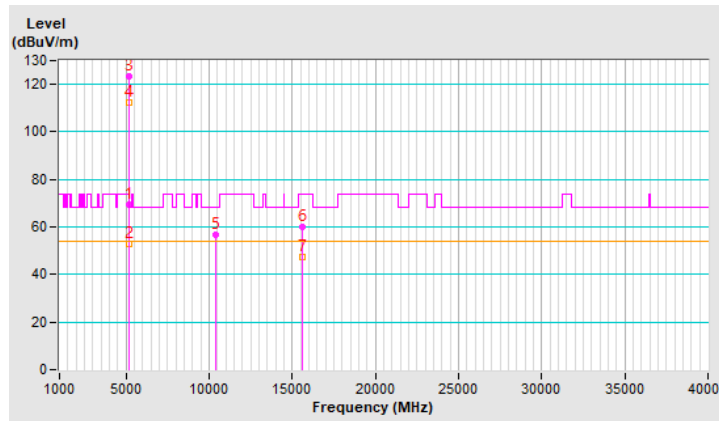


RF Mode	TX 802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	69.5 PK	74.0	-4.5	1.51 H	93	67.1	2.4
2	5150.00	52.8 AV	54.0	-1.2	1.51 H	93	50.4	2.4
3	*5200.00	123.3 PK			1.51 H	93	121.2	2.1
4	*5200.00	112.4 AV			1.51 H	93	110.3	2.1
5	#10400.00	56.8 PK	68.2	-11.4	1.58 H	189	44.9	11.9
6	15600.00	59.9 PK	74.0	-14.1	1.64 H	154	48.4	11.5
7	15600.00	47.1 AV	54.0	-6.9	1.64 H	154	35.6	11.5

Remarks:

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

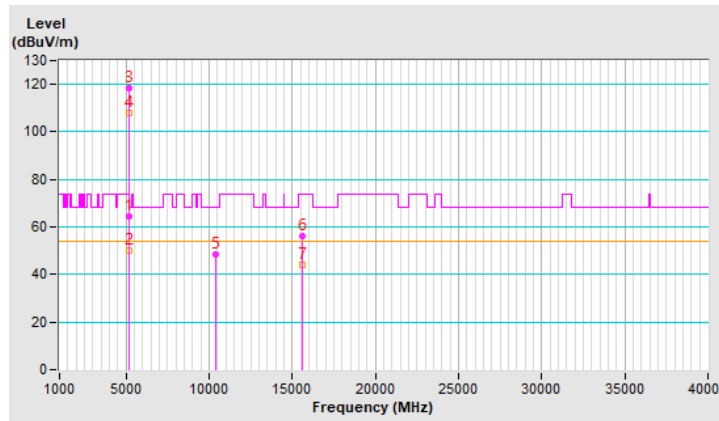


RF Mode	TX 802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	64.5 PK	74.0	-9.5	1.79 V	134	62.1	2.4
2	5150.00	49.9 AV	54.0	-4.1	1.79 V	134	47.5	2.4
3	*5200.00	118.3 PK			1.79 V	134	116.2	2.1
4	*5200.00	108.0 AV			1.79 V	134	105.9	2.1
5	#10400.00	48.4 PK	68.2	-19.8	1.54 V	205	36.5	11.9
6	15600.00	56.3 PK	74.0	-17.7	1.36 V	187	44.8	11.5
7	15600.00	43.8 AV	54.0	-10.2	1.36 V	187	32.3	11.5

Remarks:

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



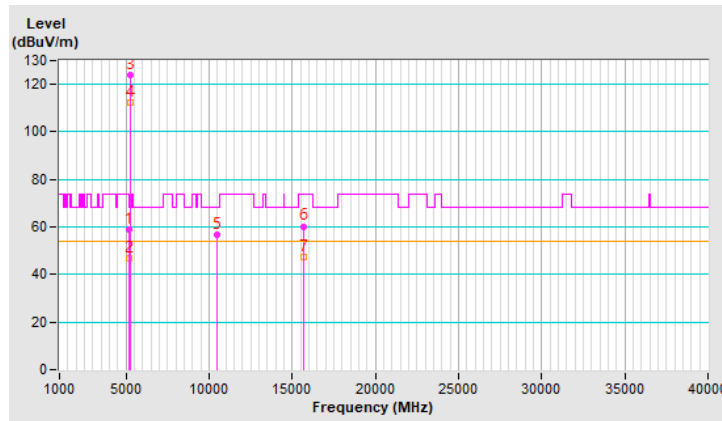
RF Mode	TX 802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	58.8 PK	74.0	-15.2	1.52 H	92	56.4	2.4
2	5150.00	46.8 AV	54.0	-7.2	1.52 H	92	44.4	2.4
3	*5240.00	123.8 PK			1.52 H	92	121.9	1.9
4	*5240.00	112.5 AV			1.52 H	92	110.6	1.9
5	#10480.00	56.5 PK	68.2	-11.7	1.53 H	187	44.6	11.9
6	15720.00	60.3 PK	74.0	-13.7	1.64 H	154	48.6	11.7
7	15720.00	47.2 AV	54.0	-6.8	1.64 H	154	35.5	11.7

Remarks:

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

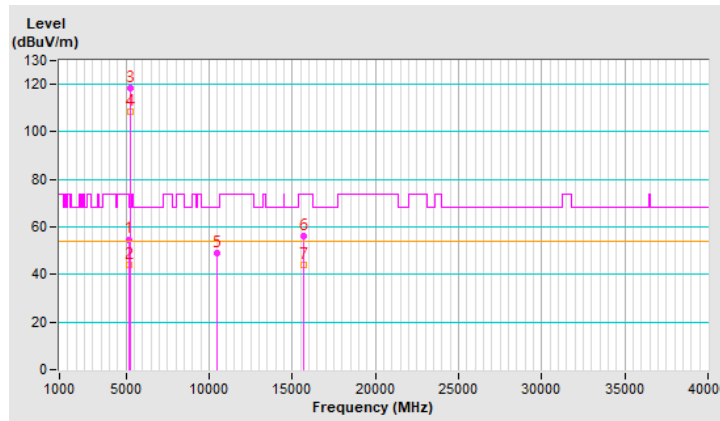


RF Mode	TX 802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	54.8 PK	74.0	-19.2	1.80 V	149	52.4	2.4
2	5150.00	44.1 AV	54.0	-9.9	1.80 V	149	41.7	2.4
3	*5240.00	118.6 PK			1.80 V	149	116.7	1.9
4	*5240.00	108.5 AV			1.80 V	149	106.6	1.9
5	#10480.00	49.2 PK	68.2	-19.0	1.46 V	195	37.3	11.9
6	15720.00	56.3 PK	74.0	-17.7	1.42 V	175	44.6	11.7
7	15720.00	44.0 AV	54.0	-10.0	1.42 V	175	32.3	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.

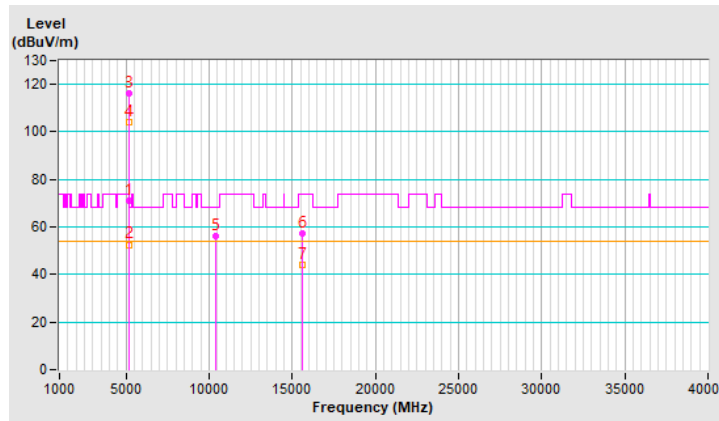


RF Mode	TX 802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	5146.85	70.8 PK	74.0	-3.2	1.53 H	97	68.4	2.4
2	5146.85	52.6 AV	54.0	-1.4	1.53 H	97	50.2	2.4
3	*5190.00	116.0 PK			1.53 H	97	113.8	2.2
4	*5190.00	104.1 AV			1.53 H	97	101.9	2.2
5	#10380.00	56.0 PK	68.2	-12.2	1.48 H	204	44.2	11.8
6	15570.00	57.4 PK	74.0	-16.6	1.67 H	137	45.6	11.8
7	15570.00	44.0 AV	54.0	-10.0	1.67 H	137	32.2	11.8

Remarks:

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

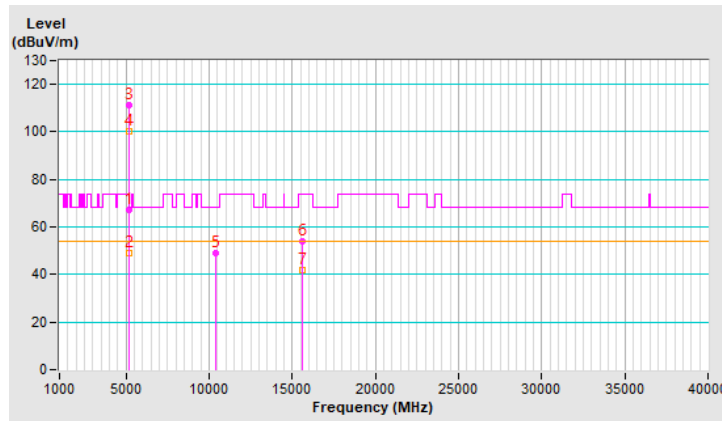


RF Mode	TX 802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	5148.34	67.2 PK	74.0	-6.8	1.48 V	200	64.8	2.4
2	5148.34	49.0 AV	54.0	-5.0	1.48 V	200	46.6	2.4
3	*5190.00	111.2 PK			1.48 V	200	109.0	2.2
4	*5190.00	100.4 AV			1.48 V	200	98.2	2.2
5	#10380.00	48.8 PK	68.2	-19.4	1.45 V	200	37.0	11.8
6	15570.00	53.9 PK	74.0	-20.1	1.41 V	198	42.1	11.8
7	15570.00	41.9 AV	54.0	-12.1	1.41 V	198	30.1	11.8

Remarks:

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

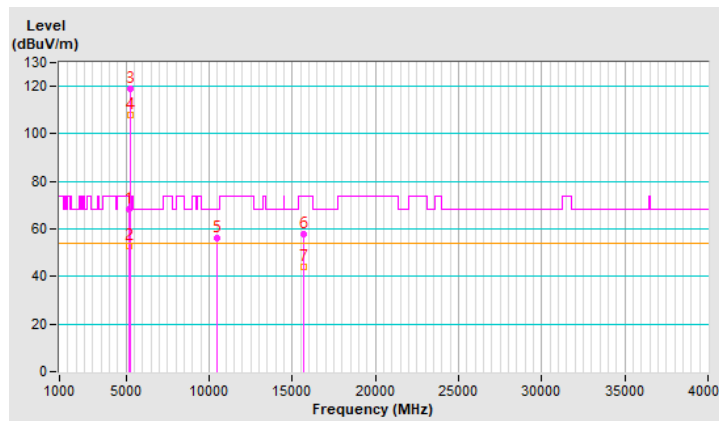


RF Mode	TX 802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	68.1 PK	74.0	-5.9	1.43 H	75	65.7	2.4
2	5150.00	52.7 AV	54.0	-1.3	1.43 H	75	50.3	2.4
3	*5230.00	119.0 PK			1.43 H	75	117.0	2.0
4	*5230.00	107.9 AV			1.43 H	75	105.9	2.0
5	#10460.00	56.2 PK	68.2	-12.0	1.57 H	197	44.2	12.0
6	15690.00	57.6 PK	74.0	-16.4	1.58 H	143	45.7	11.9
7	15690.00	44.3 AV	54.0	-9.7	1.58 H	143	32.4	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.

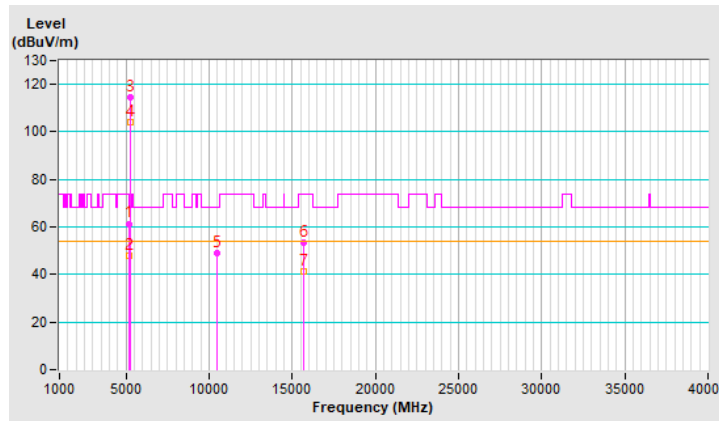


RF Mode	TX 802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	61.4 PK	74.0	-12.6	1.52 V	204	59.0	2.4
2	5150.00	47.8 AV	54.0	-6.2	1.52 V	204	45.4	2.4
3	*5230.00	114.4 PK			1.52 V	204	112.4	2.0
4	*5230.00	104.3 AV			1.52 V	204	102.3	2.0
5	#10460.00	49.0 PK	68.2	-19.2	1.43 V	209	37.0	12.0
6	15690.00	53.4 PK	74.0	-20.6	1.47 V	196	41.5	11.9
7	15690.00	41.4 AV	54.0	-12.6	1.47 V	196	29.5	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.



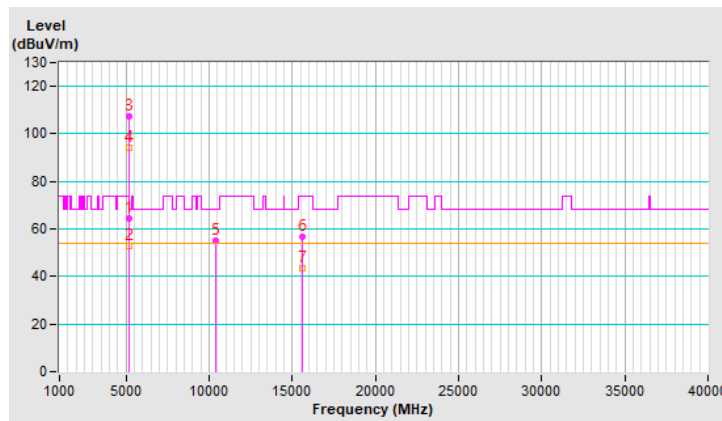
RF Mode	TX 802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.2 PK	74.0	-9.8	2.48 H	264	61.8	2.4
2	5150.00	52.9 AV	54.0	-1.1	2.48 H	264	50.5	2.4
3	*5210.00	107.6 PK			2.48 H	264	105.6	2.0
4	*5210.00	94.1 AV			2.48 H	264	92.1	2.0
5	#10420.00	55.0 PK	68.2	-13.2	1.47 H	212	43.4	11.6
6	15630.00	56.6 PK	74.0	-17.4	1.57 H	146	45.4	11.2
7	15630.00	43.5 AV	54.0	-10.5	1.57 H	146	32.3	11.2

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.

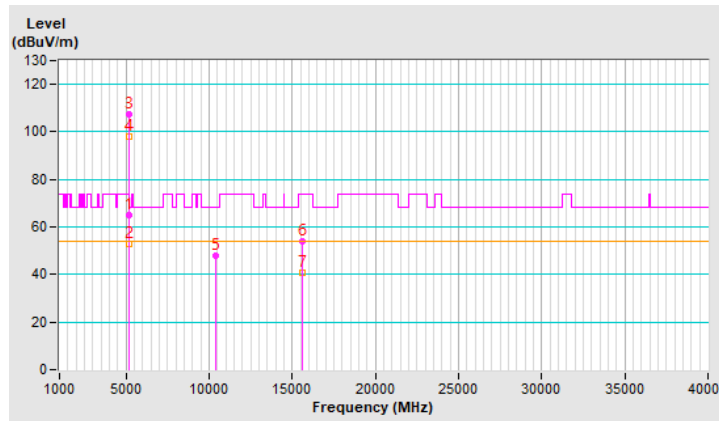


RF Mode	TX 802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

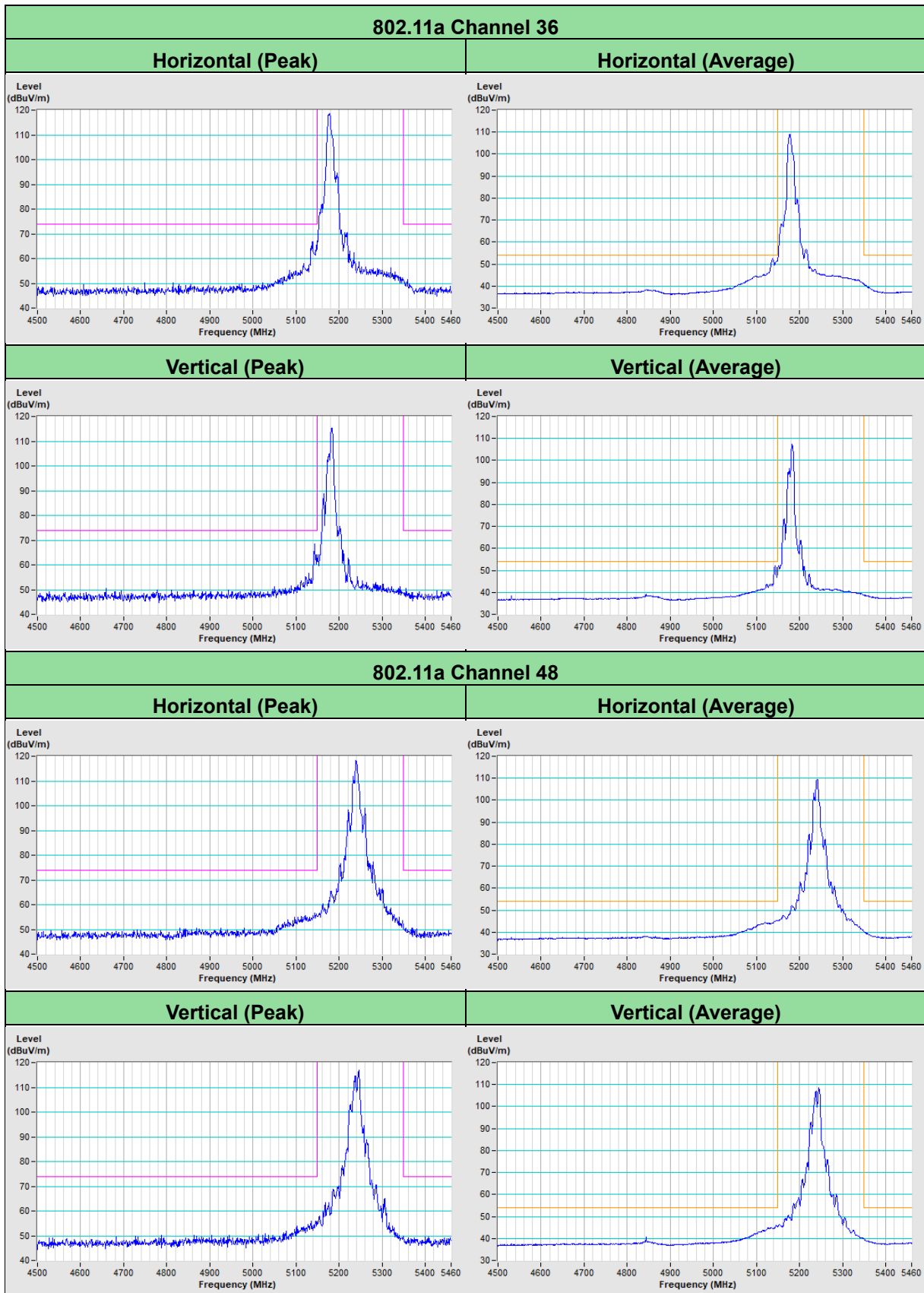
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.9 PK	74.0	-9.1	1.42 V	199	62.5	2.4
2	5150.00	52.8 AV	54.0	-1.2	1.42 V	199	50.4	2.4
3	*5210.00	107.3 PK			1.42 V	199	105.3	2.0
4	*5210.00	98.2 AV			1.42 V	199	96.2	2.0
5	#10420.00	47.8 PK	68.2	-20.4	1.45 V	183	36.2	11.6
6	15630.00	53.9 PK	74.0	-20.1	1.53 V	189	42.7	11.2
7	15630.00	40.6 AV	54.0	-13.4	1.53 V	189	29.4	11.2

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.

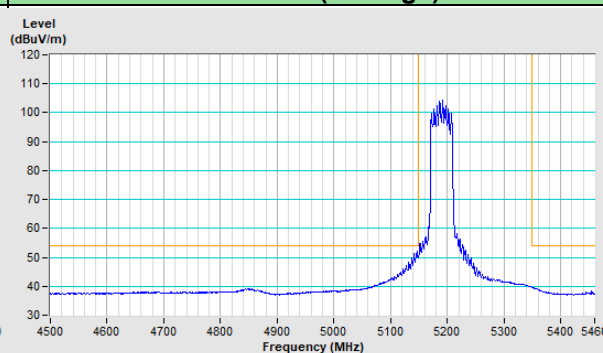
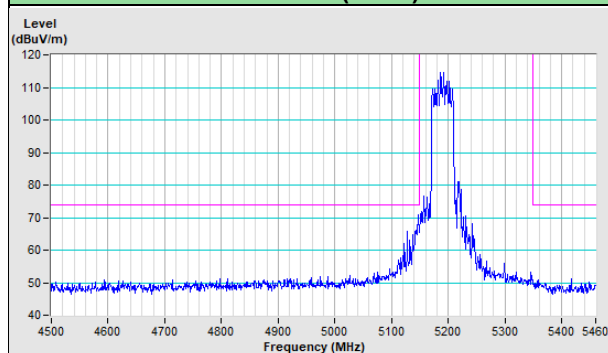


Mode A_Plot of Band Edge

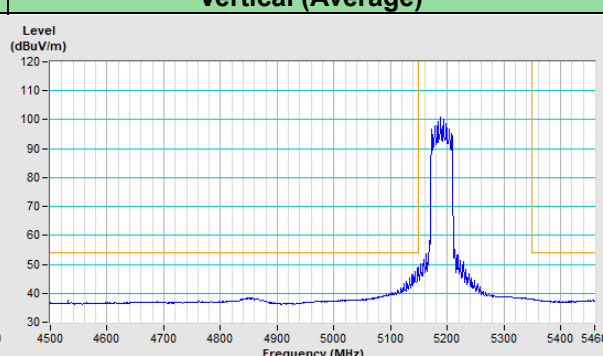
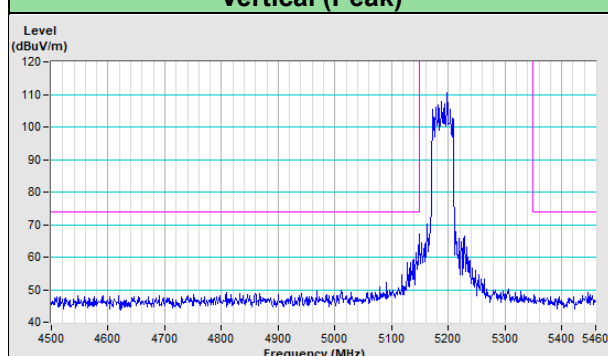


802.11ax (HE40) Channel 38

Horizontal (Peak) Horizontal (Average)

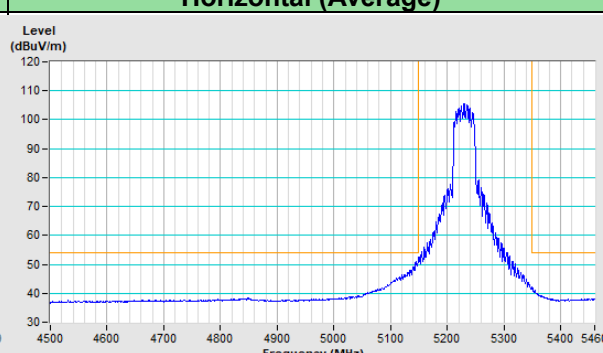
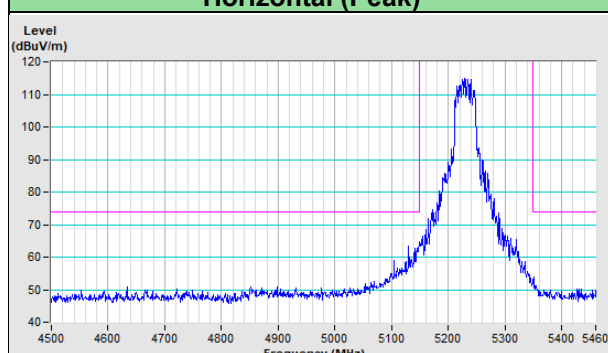


Vertical (Peak) Vertical (Average)

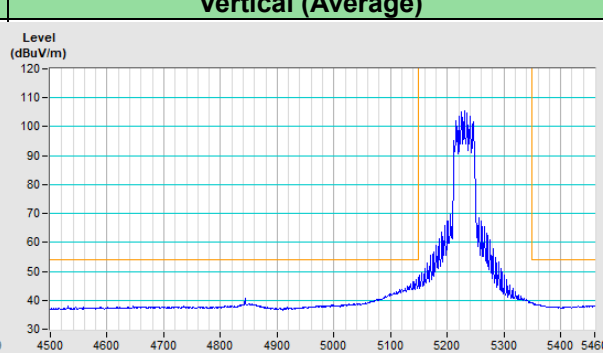
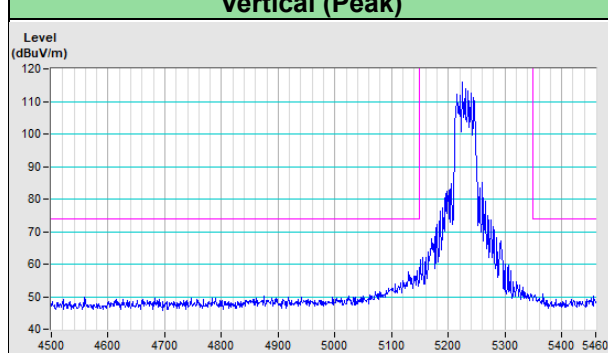


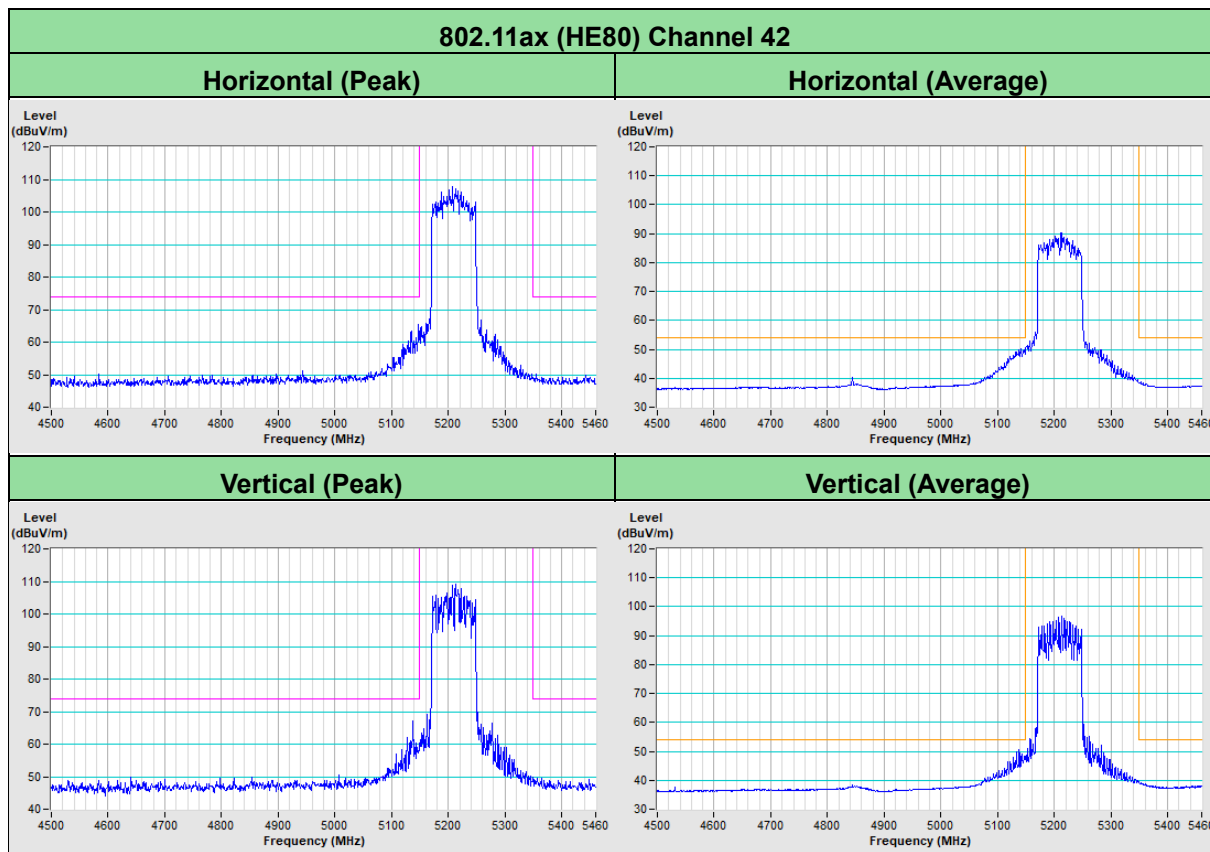
802.11ax (HE40) Channel 46

Horizontal (Peak) Horizontal (Average)



Vertical (Peak) Vertical (Average)





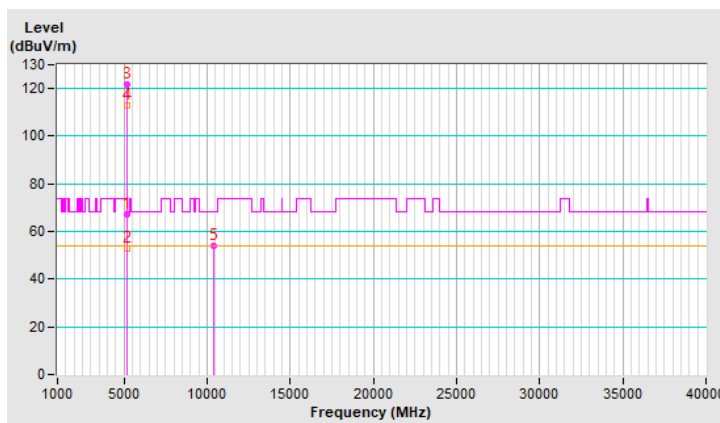
Mode B

RF Mode	TX 802.11a	Channel	CH 36 : 5180 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	67.0 PK	74.0	-7.0	1.31 H	251	64.6	2.4
2	5150.00	52.9 AV	54.0	-1.1	1.31 H	251	50.5	2.4
3	*5180.00	121.7 PK			1.31 H	251	119.5	2.2
4	*5180.00	112.8 AV			1.31 H	251	110.6	2.2
5	#10360.00	53.8 PK	68.2	-14.4	1.66 H	124	42.1	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.



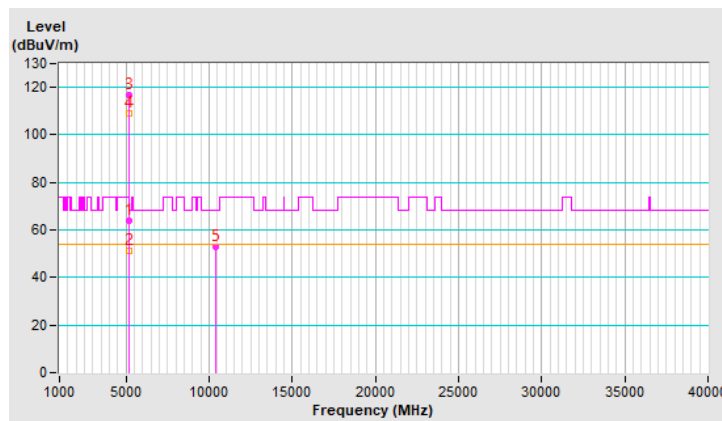
RF Mode	TX 802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	63.8 PK	74.0	-10.2	2.77 V	204	61.4	2.4
2	5150.00	51.1 AV	54.0	-2.9	2.77 V	204	48.7	2.4
3	*5180.00	117.0 PK			2.77 V	204	114.8	2.2
4	*5180.00	108.9 AV			2.77 V	204	106.7	2.2
5	#10360.00	52.9 PK	68.2	-15.3	1.03 V	211	41.2	11.7

Remarks:

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

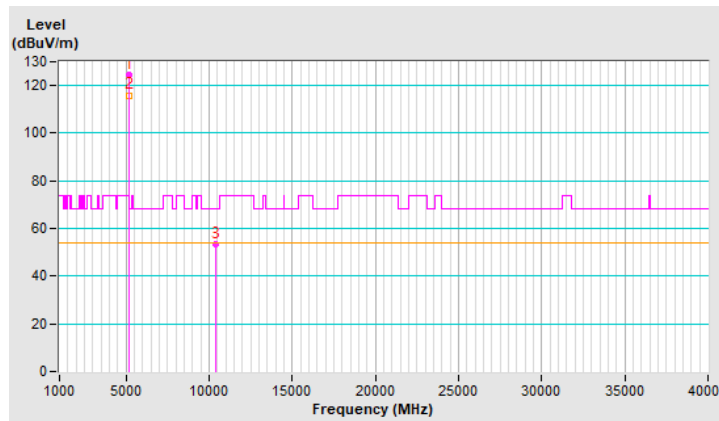


RF Mode	TX 802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	*5200.00	124.5 PK			1.30 H	252	122.4	2.1
2	*5200.00	116.0 AV			1.30 H	252	113.9	2.1
3	#10400.00	53.5 PK	68.2	-14.7	1.63 H	125	41.6	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.

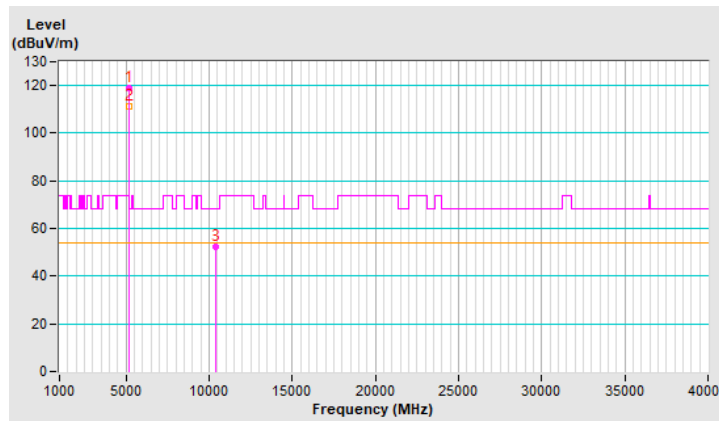


RF Mode	TX 802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	*5200.00	119.2 PK			2.74 V	206	117.1	2.1
2	*5200.00	111.4 AV			2.74 V	206	109.3	2.1
3	#10400.00	52.4 PK	68.2	-15.8	1.05 V	218	40.5	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.



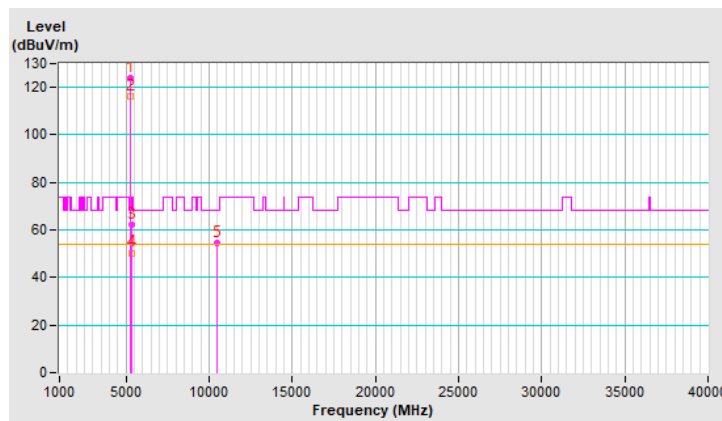
RF Mode	TX 802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	*5240.00	124.0 PK			1.20 H	250	122.1	1.9
2	*5240.00	116.1 AV			1.20 H	250	114.2	1.9
3	5350.00	62.0 PK	74.0	-12.0	1.20 H	250	60.0	2.0
4	5350.00	50.4 AV	54.0	-3.6	1.20 H	250	48.4	2.0
5	#10480.00	54.3 PK	68.2	-13.9	1.65 H	120	42.4	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.

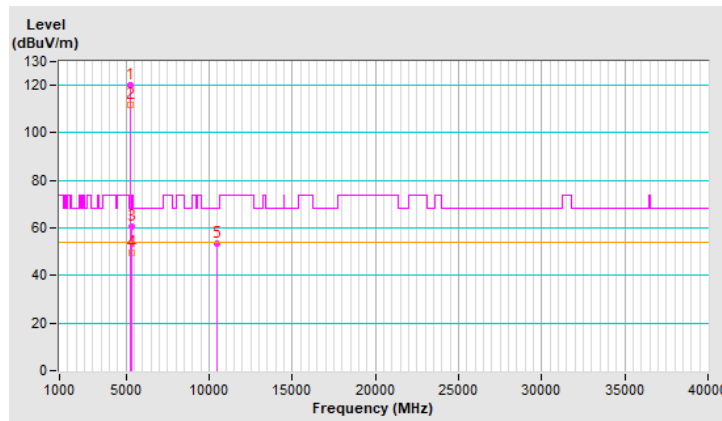


RF Mode	TX 802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	*5240.00	119.9 PK			2.71 V	205	118.0	1.9
2	*5240.00	112.0 AV			2.71 V	205	110.1	1.9
3	5350.00	60.6 PK	74.0	-13.4	2.71 V	205	58.6	2.0
4	5350.00	49.5 AV	54.0	-4.5	2.71 V	205	47.5	2.0
5	#10480.00	53.3 PK	68.2	-14.9	1.06 V	214	41.4	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.

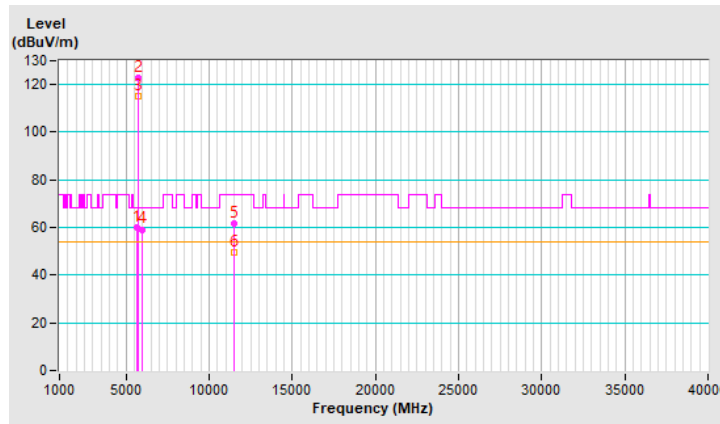


RF Mode	TX 802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5622.85	60.1 PK	68.2	-8.1	2.75 H	219	57.9	2.2
2	*5745.00	122.6 PK			2.75 H	219	120.1	2.5
3	*5745.00	114.9 AV			2.75 H	219	112.4	2.5
4	#5996.98	59.2 PK	68.2	-9.0	2.75 H	219	56.3	2.9
5	11490.00	61.5 PK	74.0	-12.5	1.17 H	302	49.1	12.4
6	11490.00	49.6 AV	54.0	-4.4	1.17 H	302	37.2	12.4

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.

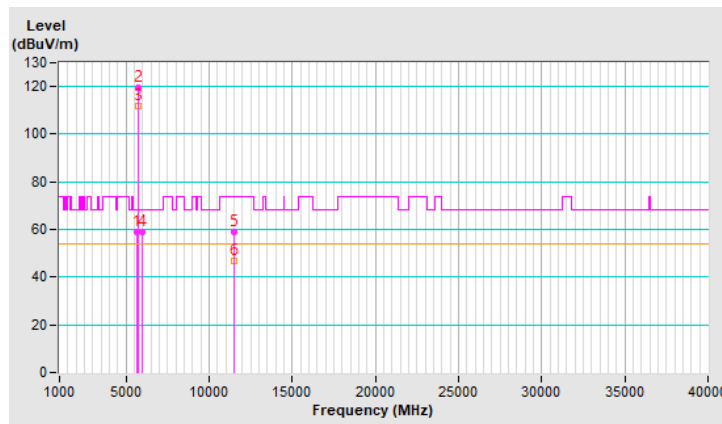


RF Mode	TX 802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5647.37	58.9 PK	68.2	-9.3	1.50 V	16	56.6	2.3
2	*5745.00	119.5 PK			1.50 V	16	117.0	2.5
3	*5745.00	111.6 AV			1.50 V	16	109.1	2.5
4	#5989.67	58.9 PK	68.2	-9.3	1.50 V	16	56.0	2.9
5	11490.00	58.9 PK	74.0	-15.1	1.28 V	337	46.5	12.4
6	11490.00	46.9 AV	54.0	-7.1	1.28 V	337	34.5	12.4

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.



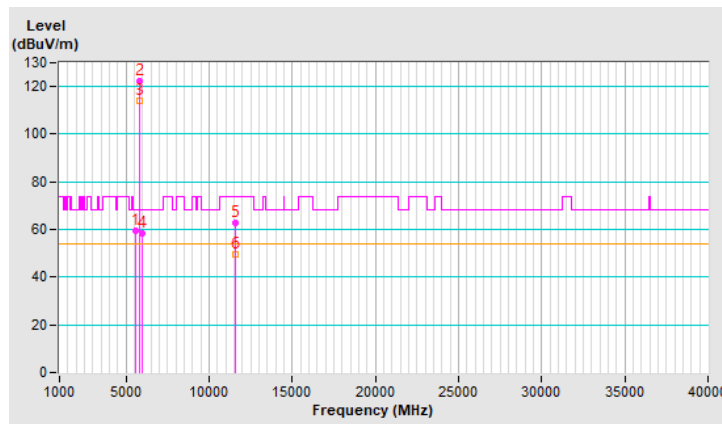
RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5576.96	59.5 PK	68.2	-8.7	2.63 H	97	57.3	2.2
2	*5785.00	122.1 PK			2.63 H	97	119.4	2.7
3	*5785.00	114.0 AV			2.63 H	97	111.3	2.7
4	#5953.93	58.6 PK	68.2	-9.6	2.63 H	97	55.7	2.9
5	11570.00	62.8 PK	74.0	-11.2	1.46 H	26	50.4	12.4
6	11570.00	49.5 AV	54.0	-4.5	1.46 H	26	37.1	12.4

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.

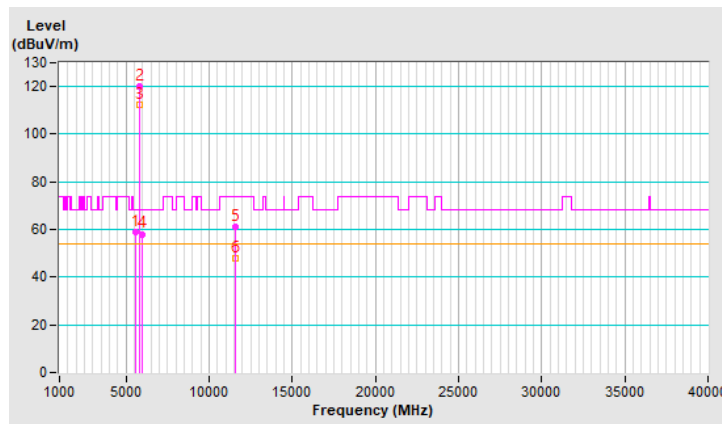


RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5607.53	58.7 PK	68.2	-9.5	2.65 V	18	56.5	2.2
2	*5785.00	120.2 PK			2.65 V	18	117.5	2.7
3	*5785.00	112.2 AV			2.65 V	18	109.5	2.7
4	#6005.11	58.1 PK	68.2	-10.1	2.65 V	18	55.2	2.9
5	11570.00	61.0 PK	74.0	-13.0	1.01 V	253	48.6	12.4
6	11570.00	48.1 AV	54.0	-5.9	1.01 V	253	35.7	12.4

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.



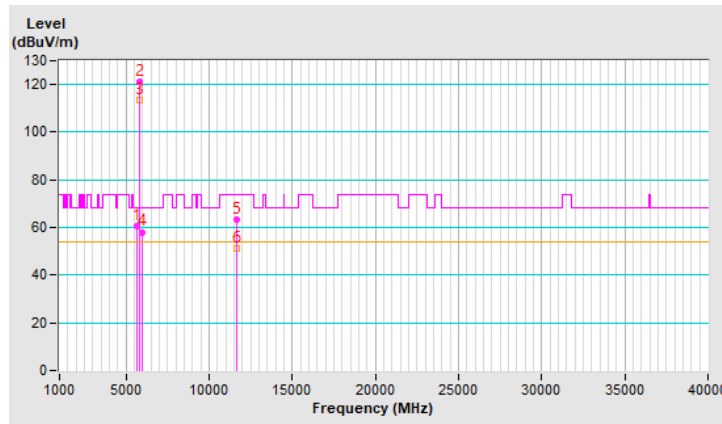
RF Mode	TX 802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5639.12	60.6 PK	68.2	-7.6	1.26 H	217	58.3	2.3
2	*5825.00	121.3 PK			1.26 H	217	118.5	2.8
3	*5825.00	113.3 AV			1.26 H	217	110.5	2.8
4	#5970.61	58.1 PK	68.2	-10.1	1.26 H	217	55.2	2.9
5	11650.00	63.5 PK	74.0	-10.5	1.19 H	305	51.6	11.9
6	11650.00	51.2 AV	54.0	-2.8	1.19 H	305	39.3	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.
6. " # " : The radiated frequency is out of the restricted band.

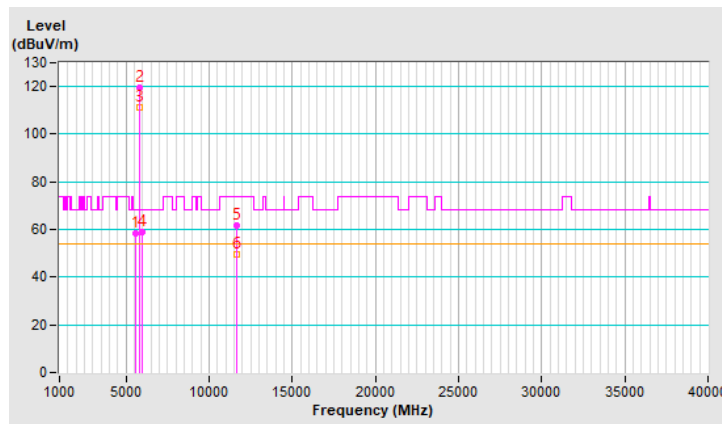


RF Mode	TX 802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5558.43	58.5 PK	68.2	-9.7	2.61 V	17	56.3	2.2
2	*5825.00	119.6 PK			2.61 V	17	116.8	2.8
3	*5825.00	111.3 AV			2.61 V	17	108.5	2.8
4	#5962.42	59.0 PK	68.2	-9.2	2.61 V	17	56.1	2.9
5	11650.00	61.7 PK	74.0	-12.3	1.31 V	333	49.8	11.9
6	11650.00	49.5 AV	54.0	-4.5	1.31 V	333	37.6	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.

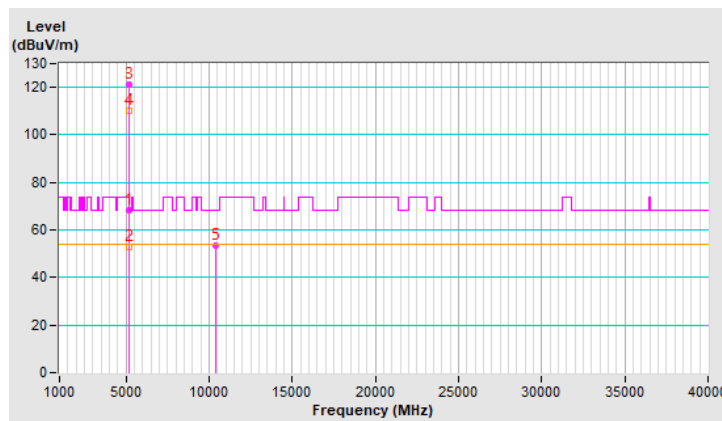


RF Mode	TX 802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	68.3 PK	74.0	-5.7	2.28 H	250	65.9	2.4
2	5150.00	52.7 AV	54.0	-1.3	2.28 H	250	50.3	2.4
3	*5180.00	121.0 PK			2.28 H	250	118.8	2.2
4	*5180.00	110.0 AV			2.28 H	250	107.8	2.2
5	#10360.00	53.4 PK	68.2	-14.8	1.88 H	153	41.7	11.7

Remarks:

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

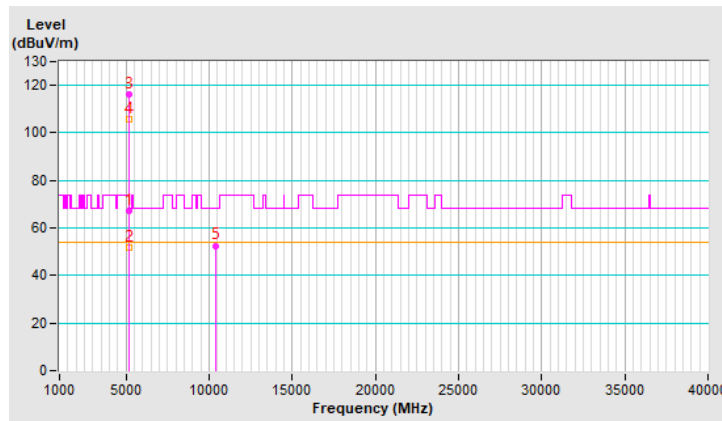


RF Mode	TX 802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	67.1 PK	74.0	-6.9	2.43 V	31	64.7	2.4
2	5150.00	51.6 AV	54.0	-2.4	2.43 V	31	49.2	2.4
3	*5180.00	116.0 PK			2.43 V	31	113.8	2.2
4	*5180.00	105.5 AV			2.43 V	31	103.3	2.2
5	#10360.00	52.6 PK	68.2	-15.6	1.23 V	181	40.9	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.
6. " # " : The radiated frequency is out of the restricted band.



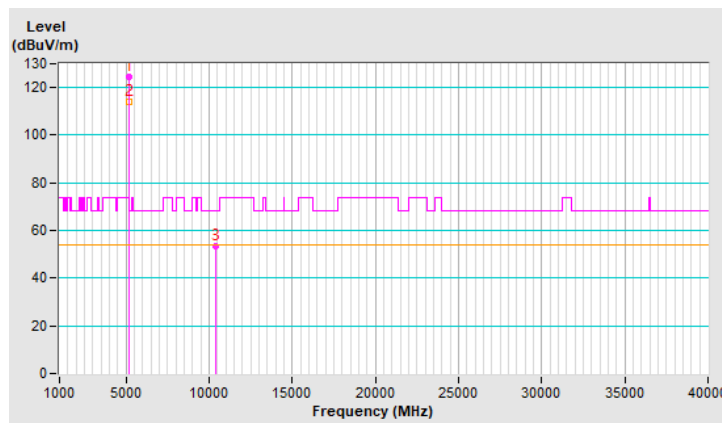
RF Mode	TX 802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	*5200.00	124.6 PK			2.38 H	249	122.5	2.1
2	*5200.00	114.1 AV			2.38 H	249	112.0	2.1
3	#10400.00	53.6 PK	68.2	-14.6	1.82 H	160	41.7	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.
6. " # " : The radiated frequency is out of the restricted band.

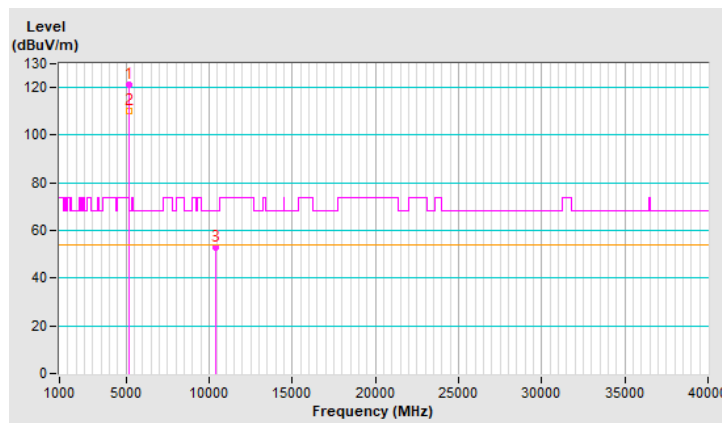


RF Mode	TX 802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	*5200.00	121.2 PK			2.40 V	31	119.1	2.1
2	*5200.00	110.4 AV			2.40 V	31	108.3	2.1
3	#10400.00	52.8 PK	68.2	-15.4	1.19 V	176	40.9	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.



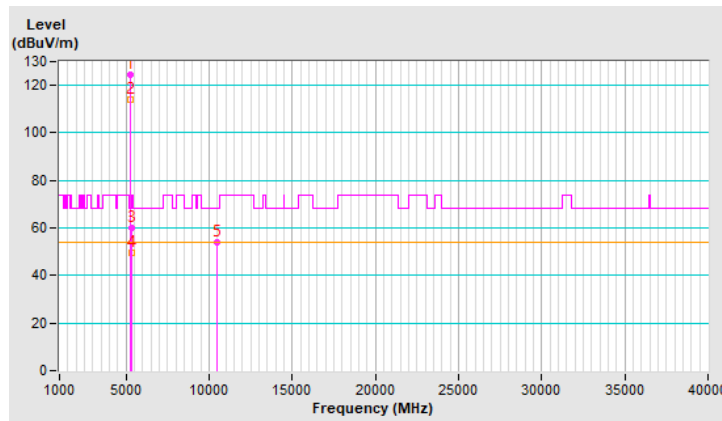
RF Mode	TX 802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	*5240.00	124.5 PK			2.40 H	247	122.6	1.9
2	*5240.00	113.9 AV			2.40 H	247	112.0	1.9
3	5350.00	60.2 PK	74.0	-13.8	2.40 H	247	58.2	2.0
4	5350.00	49.8 AV	54.0	-4.2	2.40 H	247	47.8	2.0
5	#10480.00	54.2 PK	68.2	-14.0	1.90 H	167	42.3	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.
6. " # " : The radiated frequency is out of the restricted band.



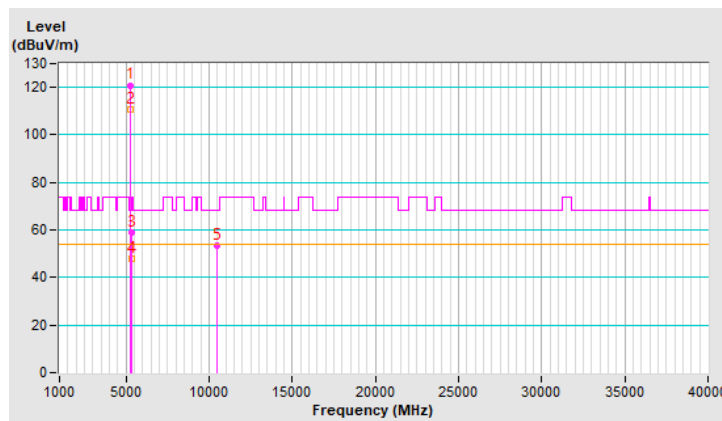
RF Mode	TX 802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	*5240.00	120.9 PK			2.40 V	32	119.0	1.9
2	*5240.00	110.6 AV			2.40 V	32	108.7	1.9
3	5350.00	58.9 PK	74.0	-15.1	2.40 V	32	56.9	2.0
4	5350.00	48.0 AV	54.0	-6.0	2.40 V	32	46.0	2.0
5	#10480.00	53.3 PK	68.2	-14.9	1.35 V	192	41.4	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.

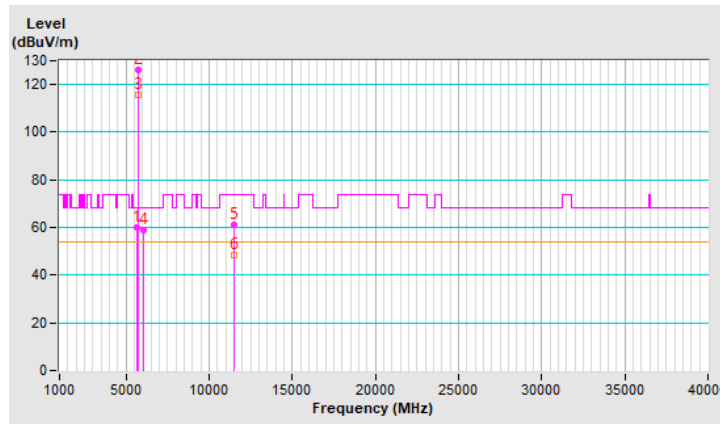


RF Mode	TX 802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5631.76	60.1 PK	68.2	-8.1	3.34 H	265	57.8	2.3
2	*5745.00	126.0 PK			3.34 H	265	123.5	2.5
3	*5745.00	115.5 AV			3.34 H	265	113.0	2.5
4	#6013.60	58.7 PK	68.2	-9.5	3.34 H	265	55.8	2.9
5	11490.00	61.0 PK	74.0	-13.0	1.13 H	302	48.6	12.4
6	11490.00	48.5 AV	54.0	-5.5	1.13 H	302	36.1	12.4

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.

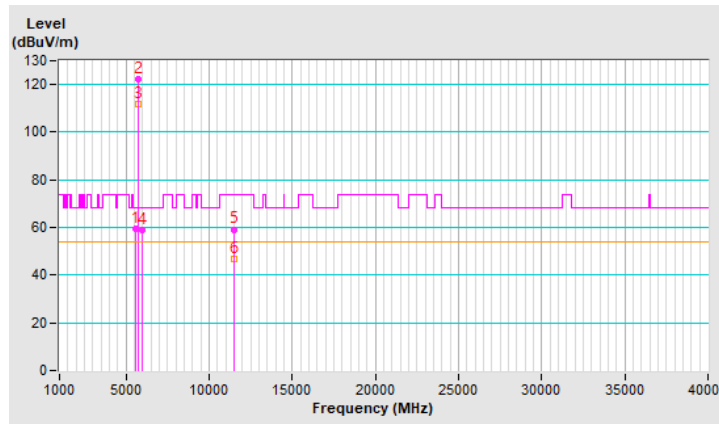


RF Mode	TX 802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5595.42	59.5 PK	68.2	-8.7	2.67 V	20	57.3	2.2
2	*5745.00	122.3 PK			2.67 V	20	119.8	2.5
3	*5745.00	111.9 AV			2.67 V	20	109.4	2.5
4	#5993.12	59.1 PK	68.2	-9.1	2.67 V	20	56.2	2.9
5	11490.00	59.2 PK	74.0	-14.8	1.26 V	338	46.8	12.4
6	11490.00	46.6 AV	54.0	-7.4	1.26 V	338	34.2	12.4

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.



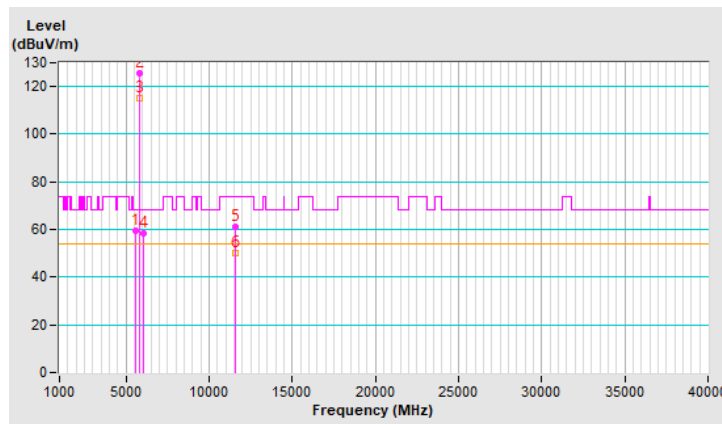
RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5594.00	59.7 PK	68.2	-8.5	2.61 H	244	57.5	2.2
2	*5785.00	125.4 PK			2.61 H	244	122.7	2.7
3	*5785.00	115.1 AV			2.61 H	244	112.4	2.7
4	#6024.82	58.6 PK	68.2	-9.6	2.61 H	244	55.6	3.0
5	11570.00	61.0 PK	74.0	-13.0	1.19 H	311	48.6	12.4
6	11570.00	50.0 AV	54.0	-4.0	1.19 H	311	37.6	12.4

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.

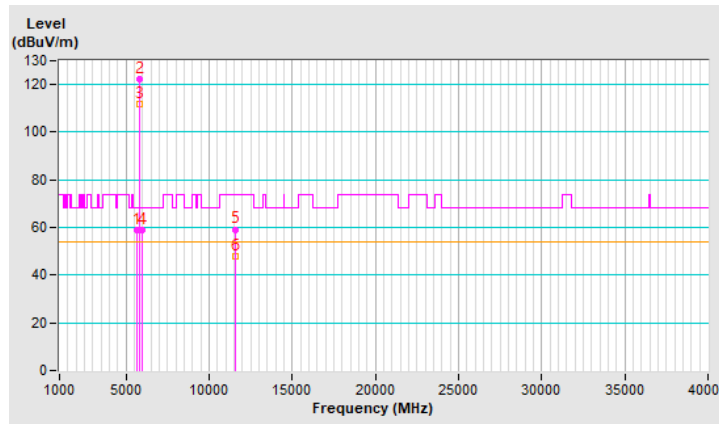


RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5627.54	59.1 PK	68.2	-9.1	2.63 V	21	56.8	2.3
2	*5785.00	122.2 PK			2.63 V	21	119.5	2.7
3	*5785.00	111.6 AV			2.63 V	21	108.9	2.7
4	#6005.58	58.9 PK	68.2	-9.3	2.63 V	21	56.0	2.9
5	11570.00	59.2 PK	74.0	-14.8	1.25 V	335	46.8	12.4
6	11570.00	47.9 AV	54.0	-6.1	1.25 V	335	35.5	12.4

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.



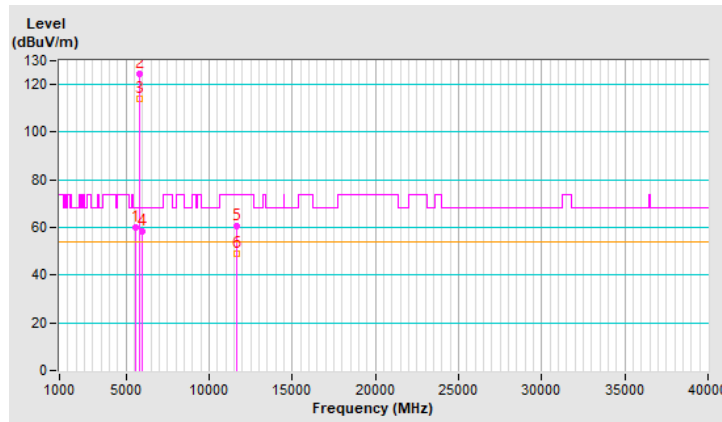
RF Mode	TX 802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5591.15	59.9 PK	68.2	-8.3	3.39 H	259	57.7	2.2
2	*5825.00	124.3 PK			3.39 H	259	121.5	2.8
3	*5825.00	114.2 AV			3.39 H	259	111.4	2.8
4	#6004.10	58.3 PK	68.2	-9.9	3.39 H	259	55.4	2.9
5	11650.00	60.4 PK	74.0	-13.6	1.36 H	309	48.5	11.9
6	11650.00	49.0 AV	54.0	-5.0	1.36 H	309	37.1	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.

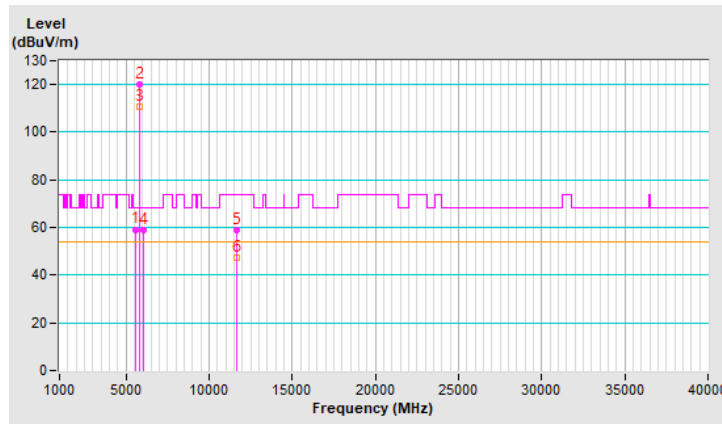


RF Mode	TX 802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5552.20	59.2 PK	68.2	-9.0	2.70 V	21	57.0	2.2
2	*5825.00	120.2 PK			2.70 V	21	117.4	2.8
3	*5825.00	110.9 AV			2.70 V	21	108.1	2.8
4	#6023.46	58.9 PK	68.2	-9.3	2.70 V	21	55.9	3.0
5	11650.00	58.7 PK	74.0	-15.3	1.24 V	337	46.8	11.9
6	11650.00	47.6 AV	54.0	-6.4	1.24 V	337	35.7	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.
6. " # " : The radiated frequency is out of the restricted band.

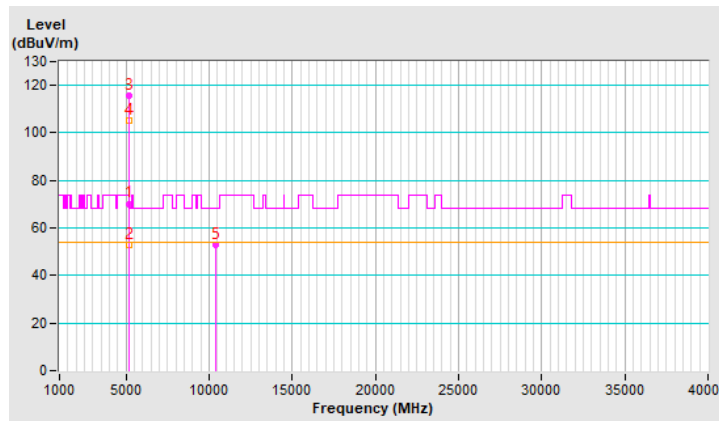


RF Mode	TX 802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	70.2 PK	74.0	-3.8	2.29 H	249	67.8	2.4
2	5150.00	53.0 AV	54.0	-1.0	2.29 H	249	50.6	2.4
3	*5190.00	115.9 PK			2.29 H	249	113.7	2.2
4	*5190.00	105.0 AV			2.29 H	249	102.8	2.2
5	#10380.00	53.1 PK	68.2	-15.1	1.93 H	158	41.3	11.8

Remarks:

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

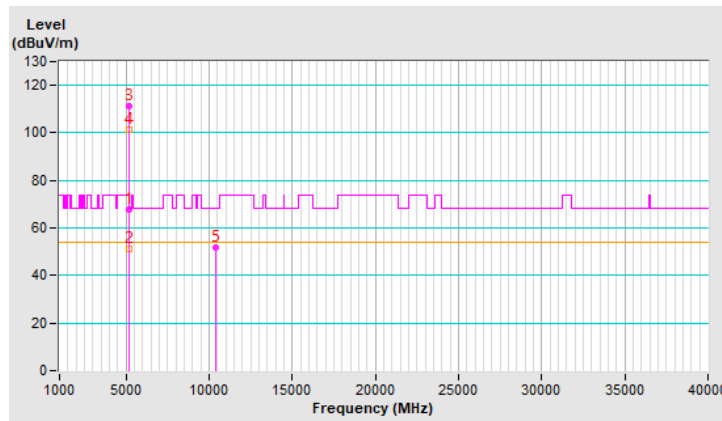


RF Mode	TX 802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	67.7 PK	74.0	-6.3	2.45 V	31	65.3	2.4
2	5150.00	51.3 AV	54.0	-2.7	2.45 V	31	48.9	2.4
3	*5190.00	111.3 PK			2.45 V	31	109.1	2.2
4	*5190.00	101.4 AV			2.45 V	31	99.2	2.2
5	#10380.00	52.0 PK	68.2	-16.2	1.28 V	187	40.2	11.8

Remarks:

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



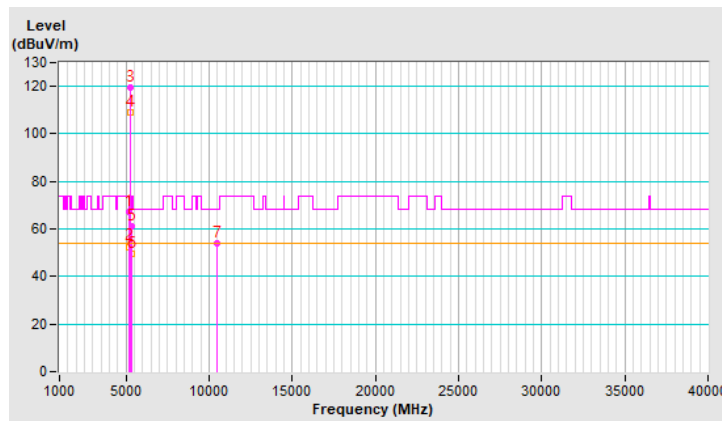
RF Mode	TX 802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	67.0 PK	74.0	-7.0	2.26 H	246	64.6	2.4
2	5150.00	52.6 AV	54.0	-1.4	2.26 H	246	50.2	2.4
3	*5230.00	119.6 PK			2.26 H	246	117.6	2.0
4	*5230.00	109.0 AV			2.26 H	246	107.0	2.0
5	5350.00	61.0 PK	74.0	-13.0	2.26 H	246	59.0	2.0
6	5350.00	49.8 AV	54.0	-4.2	2.26 H	246	47.8	2.0
7	#10460.00	53.8 PK	68.2	-14.4	1.95 H	160	41.8	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.

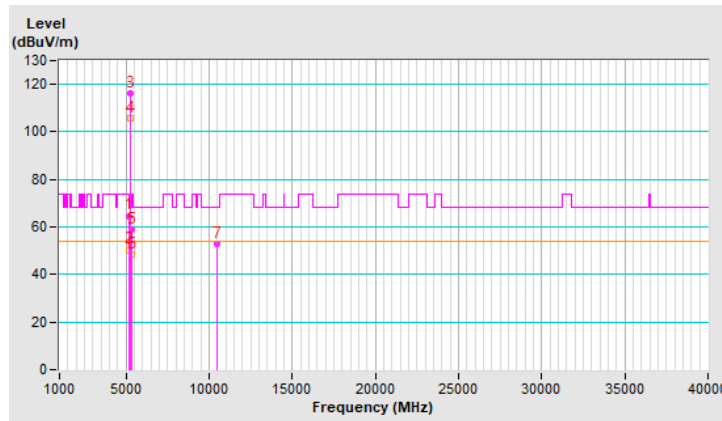


RF Mode	TX 802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	64.7 PK	74.0	-9.3	2.39 V	33	62.3	2.4
2	5150.00	50.4 AV	54.0	-3.6	2.39 V	33	48.0	2.4
3	*5230.00	116.0 PK			2.39 V	33	114.0	2.0
4	*5230.00	105.8 AV			2.39 V	33	103.8	2.0
5	5350.00	58.9 PK	74.0	-15.1	2.39 V	33	56.9	2.0
6	5350.00	48.3 AV	54.0	-5.7	2.39 V	33	46.3	2.0
7	#10460.00	52.7 PK	68.2	-15.5	1.20 V	185	40.7	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.

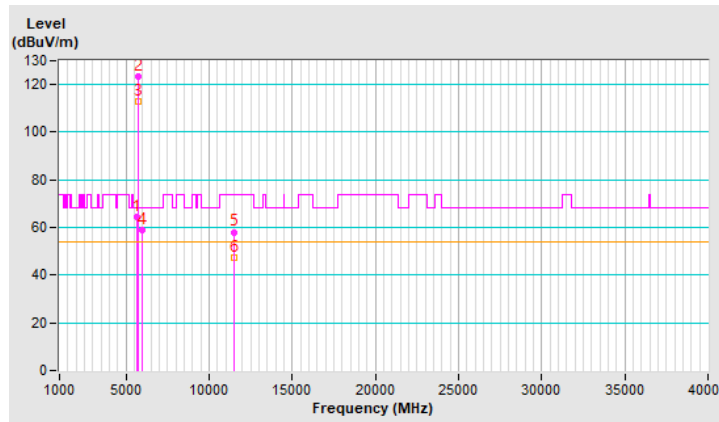


RF Mode	TX 802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5646.43	64.2 PK	68.2	-4.0	3.47 H	268	61.9	2.3
2	*5755.00	123.2 PK			3.47 H	268	120.6	2.6
3	*5755.00	112.9 AV			3.47 H	268	110.3	2.6
4	#5973.40	59.1 PK	68.2	-9.1	3.47 H	268	56.2	2.9
5	11510.00	58.1 PK	74.0	-15.9	1.00 H	312	45.7	12.4
6	11510.00	47.1 AV	54.0	-6.9	1.00 H	312	34.7	12.4

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.

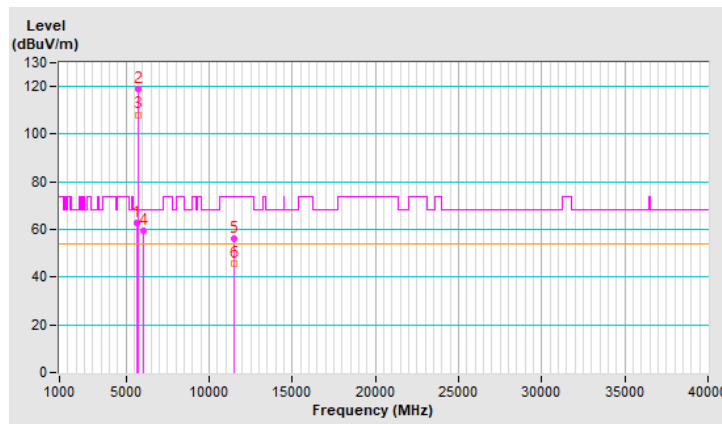


RF Mode	TX 802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5646.90	63.0 PK	68.2	-5.2	2.65 V	21	60.7	2.3
2	*5755.00	119.1 PK			2.65 V	21	116.5	2.6
3	*5755.00	108.2 AV			2.65 V	21	105.6	2.6
4	#6023.40	59.4 PK	68.2	-8.8	2.65 V	21	56.4	3.0
5	11510.00	56.4 PK	74.0	-17.6	1.20 V	314	44.0	12.4
6	11510.00	45.5 AV	54.0	-8.5	1.20 V	314	33.1	12.4

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.

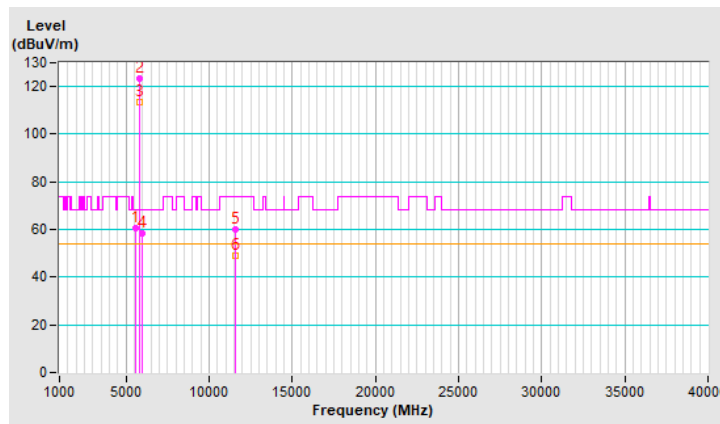


RF Mode	TX 802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5563.66	60.4 PK	68.2	-7.8	3.41 H	261	58.2	2.2
2	*5795.00	123.2 PK			3.41 H	261	120.5	2.7
3	*5795.00	113.2 AV			3.41 H	261	110.5	2.7
4	#5984.45	58.6 PK	68.2	-9.6	3.41 H	261	55.7	2.9
5	11590.00	60.1 PK	74.0	-13.9	1.03 H	311	47.8	12.3
6	11590.00	49.0 AV	54.0	-5.0	1.03 H	311	36.7	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.

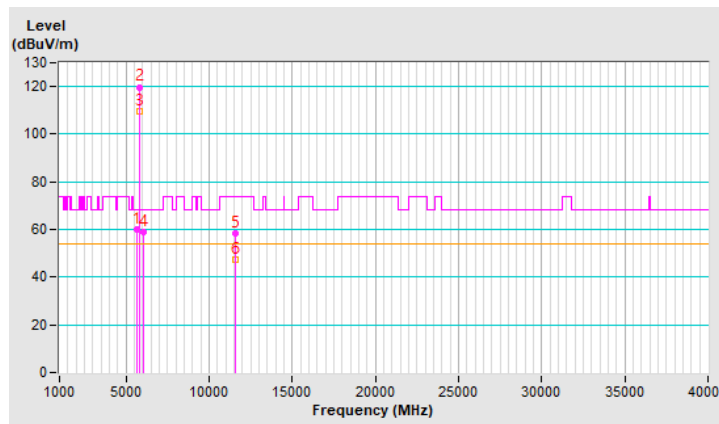


RF Mode	TX 802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 53% RH
Tested By	Jed Wu		

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	#5646.90	60.1 PK	68.2	-8.1	2.63 V	20	57.8	2.3
2	*5795.00	119.8 PK			2.63 V	20	117.1	2.7
3	*5795.00	109.5 AV			2.63 V	20	106.8	2.7
4	#6017.76	58.7 PK	68.2	-9.5	2.63 V	20	55.7	3.0
5	11590.00	58.4 PK	74.0	-15.6	1.18 V	317	46.1	12.3
6	11590.00	47.6 AV	54.0	-6.4	1.18 V	317	35.3	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.

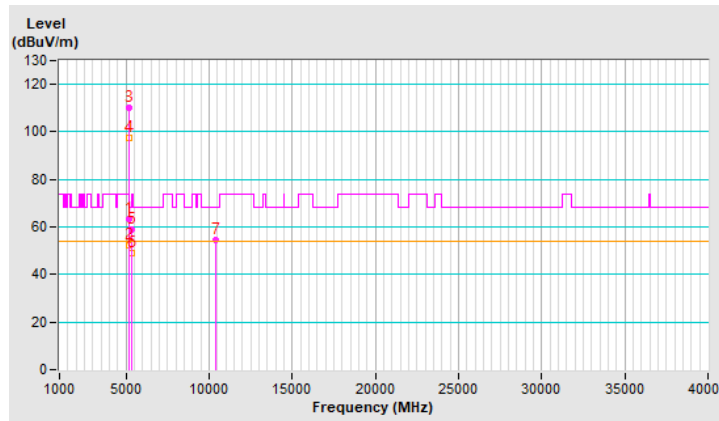


RF Mode	TX 802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.5 PK	74.0	-10.5	1.36 H	255	61.1	2.4
2	5150.00	52.4 AV	54.0	-1.6	1.36 H	255	50.0	2.4
3	*5210.00	110.1 PK			1.36 H	255	108.1	2.0
4	*5210.00	97.5 AV			1.36 H	255	95.5	2.0
5	5350.00	59.1 PK	74.0	-14.9	1.36 H	255	57.1	2.0
6	5350.00	48.9 AV	54.0	-5.1	1.36 H	255	46.9	2.0
7	#10420.00	54.6 PK	68.2	-13.6	1.99 H	158	43.0	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.
6. " # " : The radiated frequency is out of the restricted band.

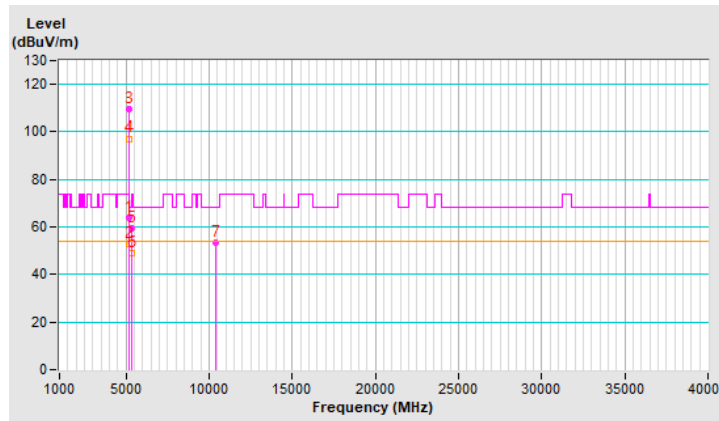


RF Mode	TX 802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.1 PK	74.0	-9.9	1.58 V	248	61.7	2.4
2	5150.00	52.9 AV	54.0	-1.1	1.58 V	248	50.5	2.4
3	*5210.00	109.7 PK			1.58 V	248	107.7	2.0
4	*5210.00	97.2 AV			1.58 V	248	95.2	2.0
5	5350.00	59.6 PK	74.0	-14.4	1.58 V	248	57.6	2.0
6	5350.00	49.2 AV	54.0	-4.8	1.58 V	248	47.2	2.0
7	#10420.00	53.2 PK	68.2	-15.0	1.35 V	190	41.6	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.
6. " # " : The radiated frequency is out of the restricted band.

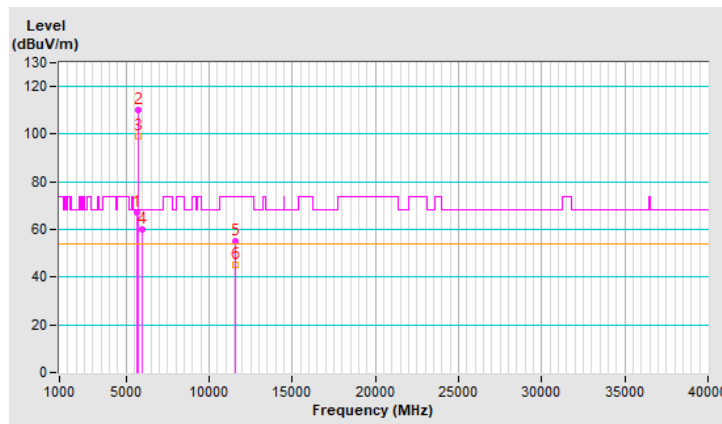


RF Mode	TX 802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5640.20	67.2 PK	68.2	-1.0	1.33 H	250	64.9	2.3
2	*5775.00	110.0 PK			1.33 H	250	107.4	2.6
3	*5775.00	99.3 AV			1.33 H	250	96.7	2.6
4	#5956.77	60.2 PK	68.2	-8.0	1.33 H	250	57.3	2.9
5	11550.00	55.1 PK	74.0	-18.9	1.12 H	317	42.9	12.2
6	11550.00	45.4 AV	54.0	-8.6	1.12 H	317	33.2	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.

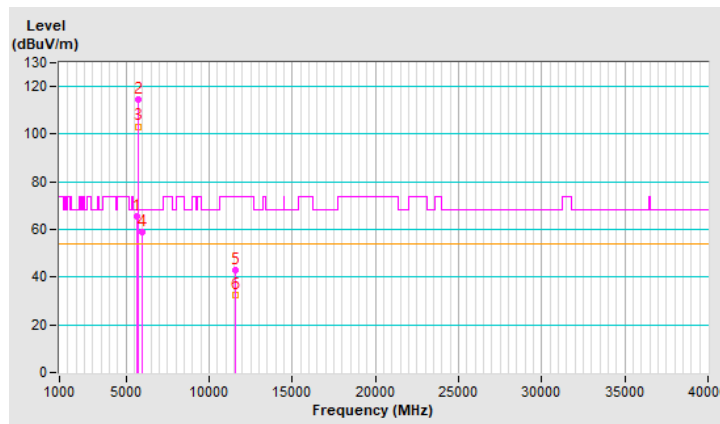


RF Mode	TX 802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Louis Yang		

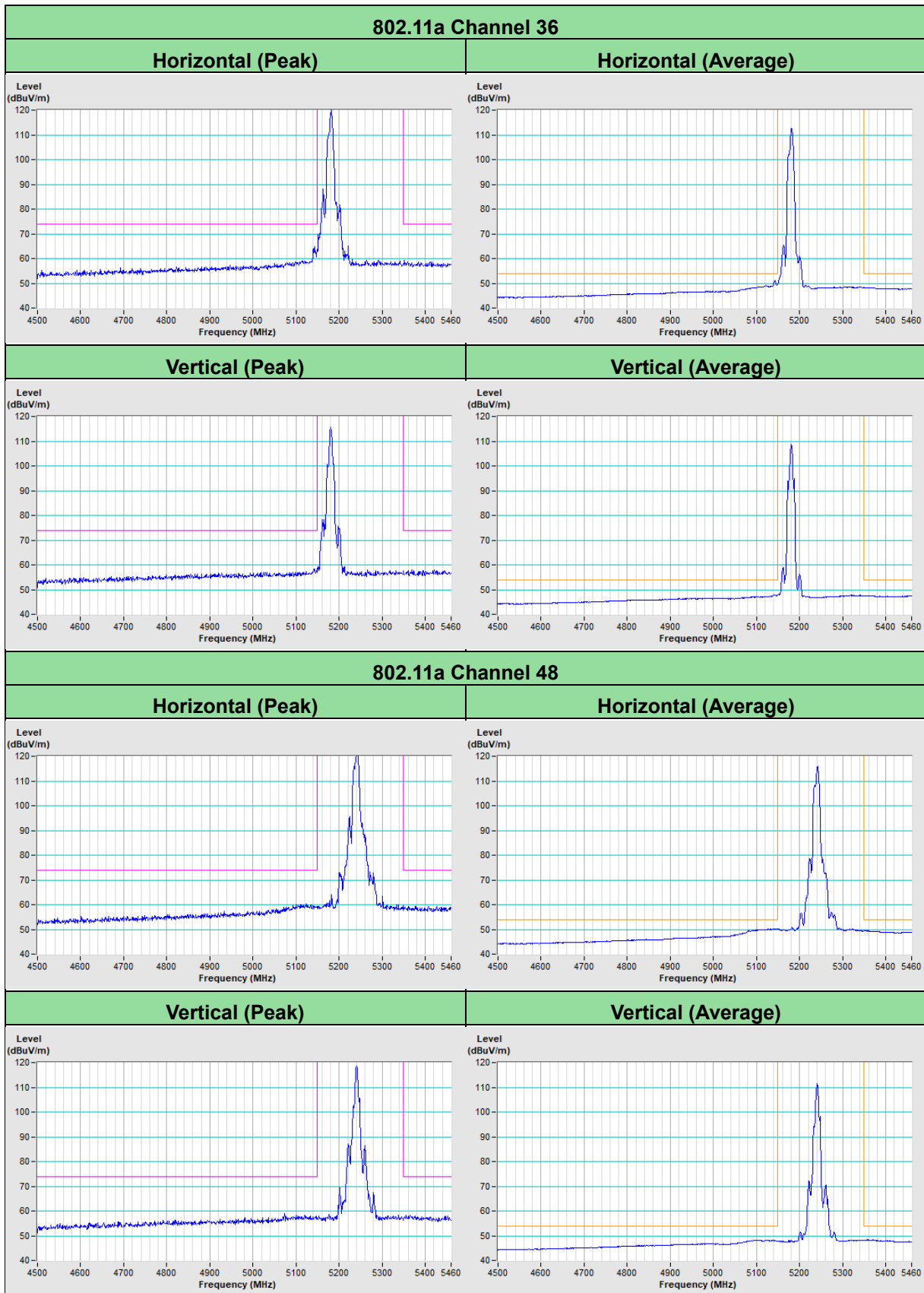
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.30	65.7 PK	68.2	-2.5	2.27 V	188	63.4	2.3
2	*5775.00	114.5 PK			2.27 V	188	111.9	2.6
3	*5775.00	103.3 AV			2.27 V	188	100.7	2.6
4	#5998.42	59.1 PK	68.2	-9.1	2.27 V	188	56.2	2.9
5	11550.00	43.1 PK	74.0	-30.9	1.27 V	318	30.9	12.2
6	11550.00	32.7 AV	54.0	-21.3	1.27 V	318	20.5	12.2

Remarks:

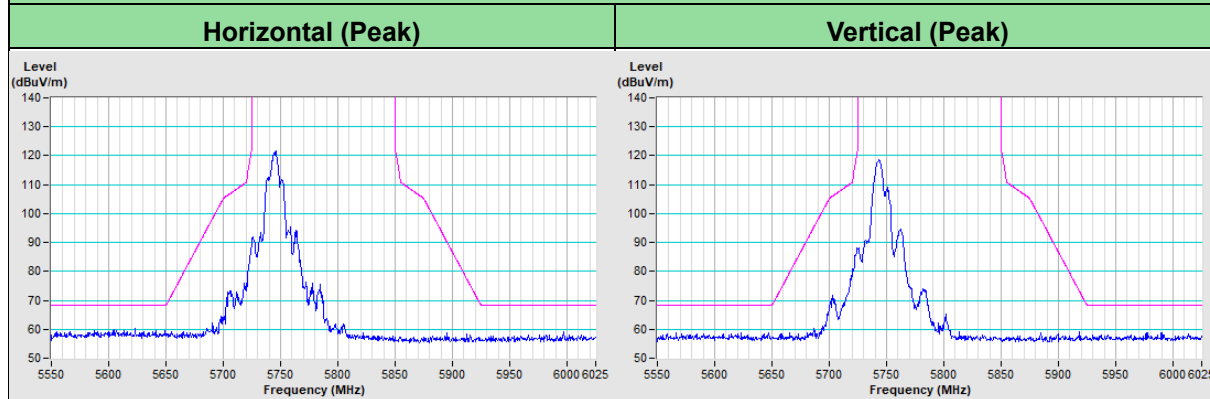
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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



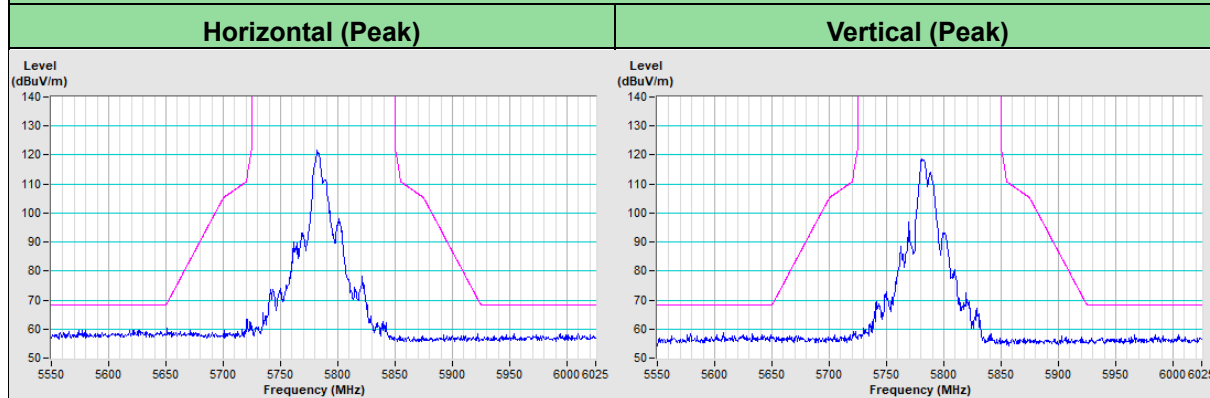
Mode B_Plot of Band Edge



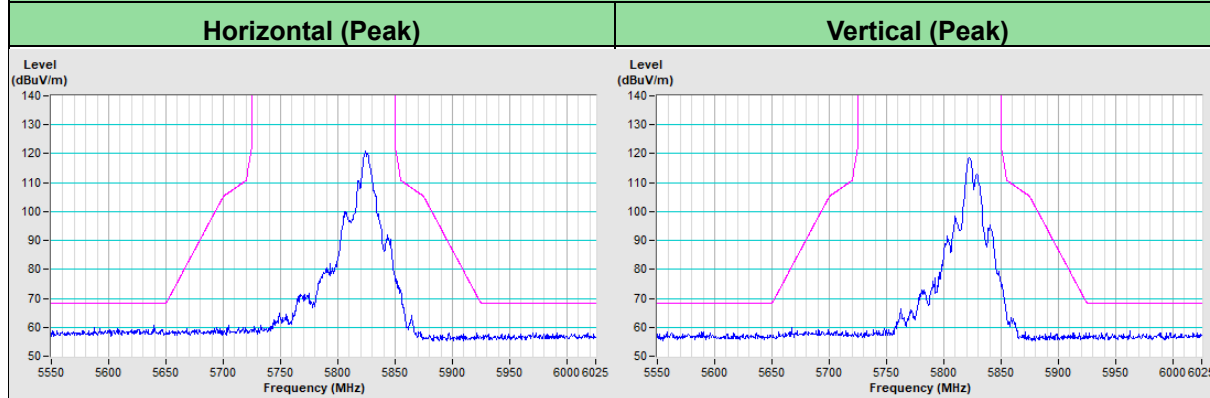
802.11a Channel 149



802.11a Channel 157

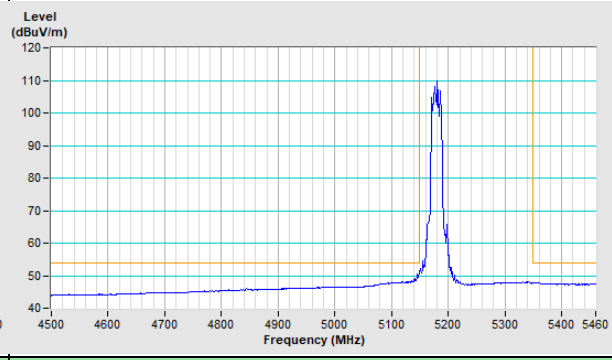
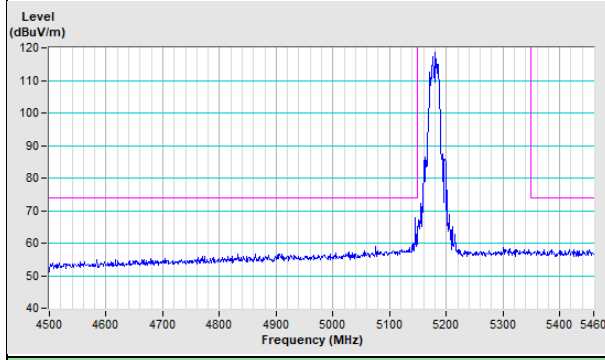


802.11a Channel 165

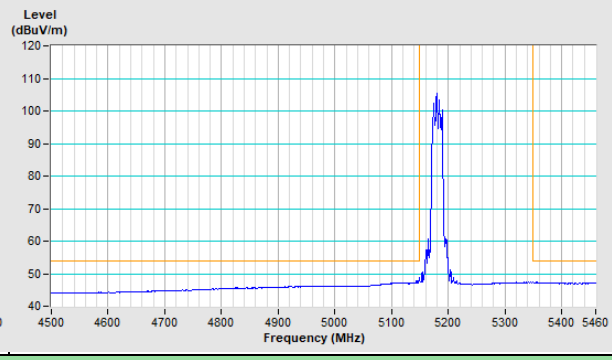
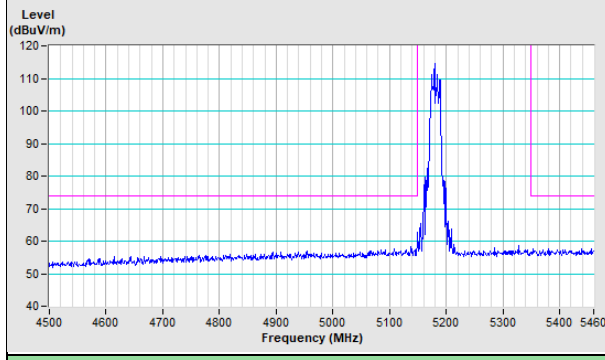


802.11ax (HE20) Channel 36

Horizontal (Peak) Horizontal (Average)

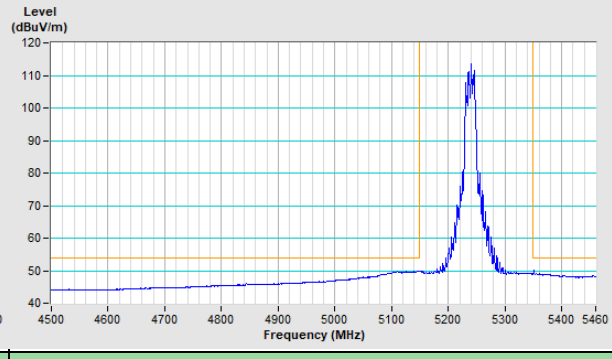
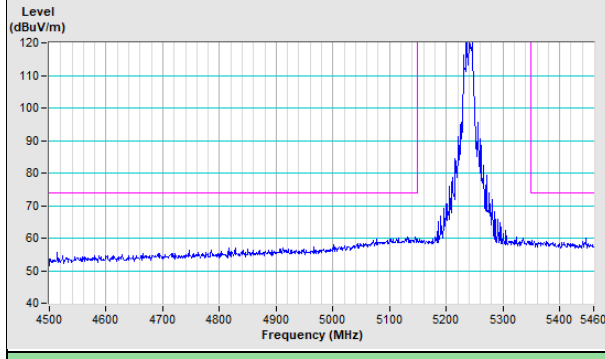


Vertical (Peak) Vertical (Average)

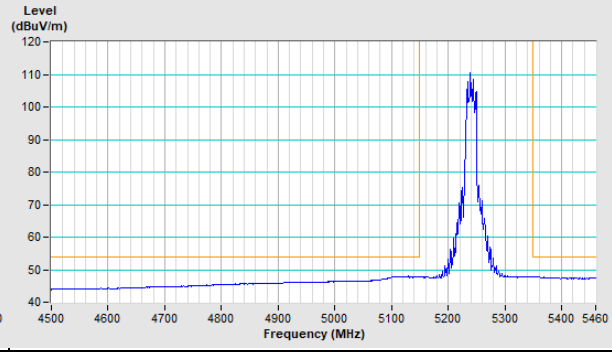
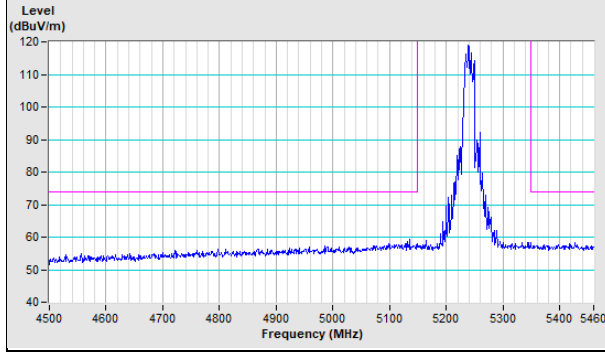


802.11ax (HE20) Channel 48

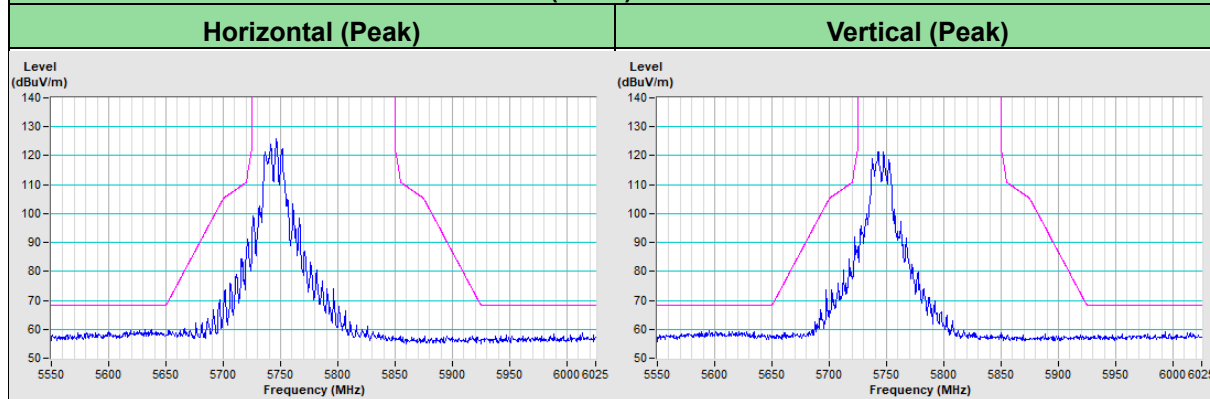
Horizontal (Peak) Horizontal (Average)



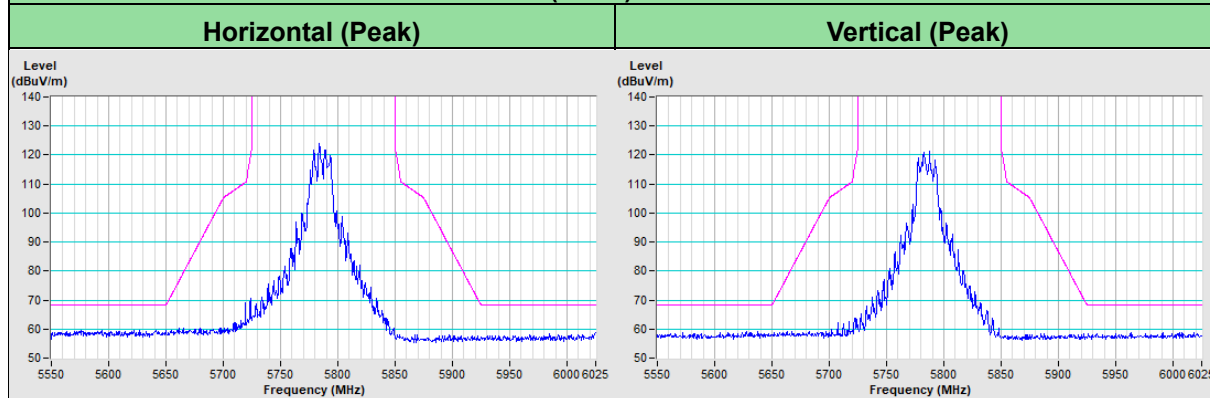
Vertical (Peak) Vertical (Average)



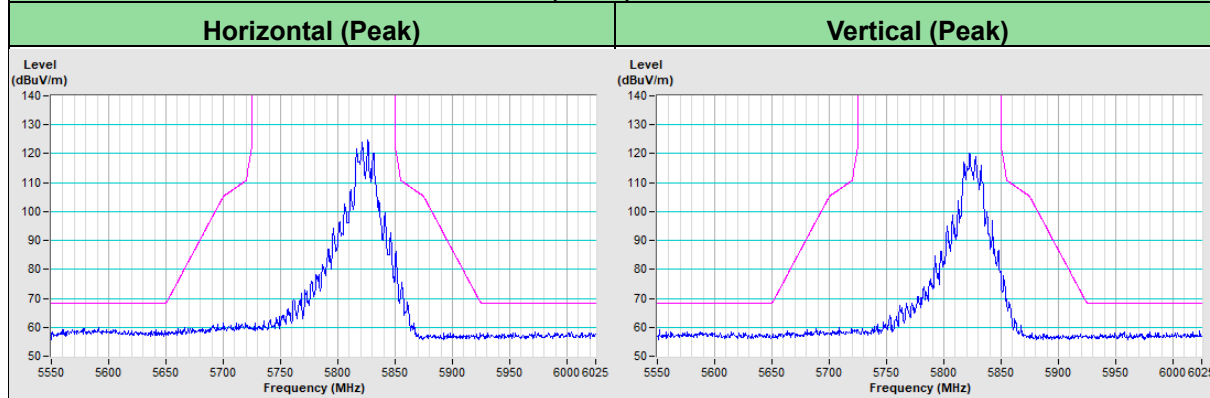
802.11ax (HE20) Channel 149



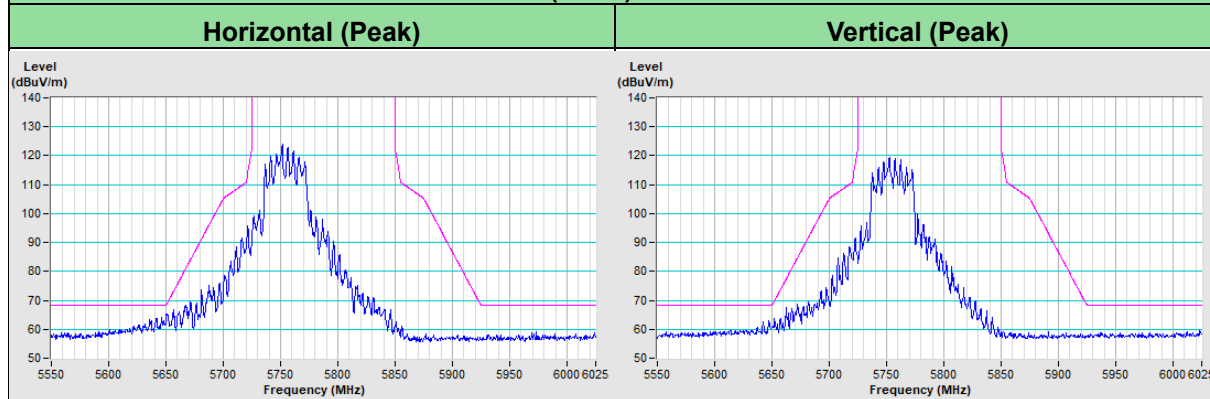
802.11ax (HE20) Channel 157



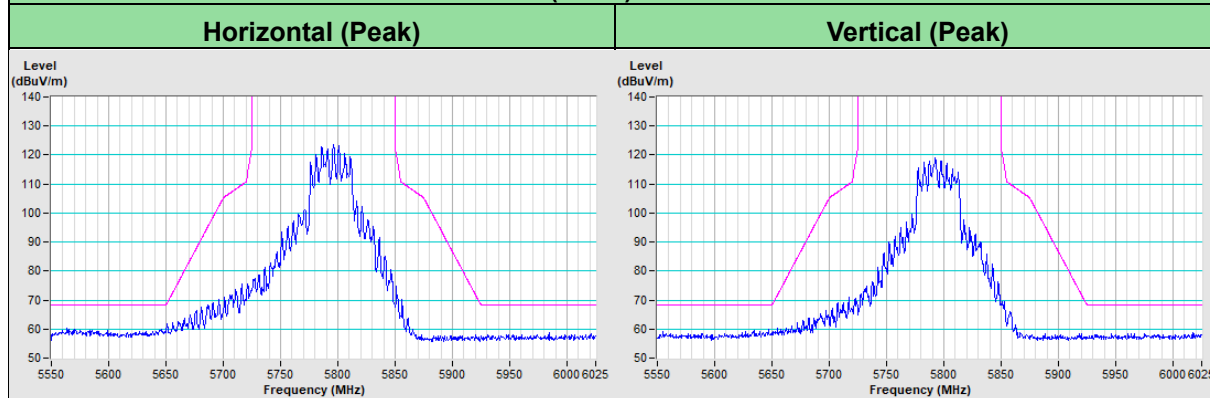
802.11ax (HE20) Channel 165



802.11ax (HE40) Channel 151

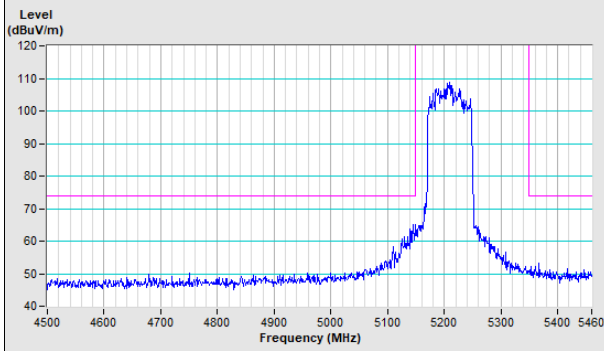


802.11ax (HE40) Channel 159

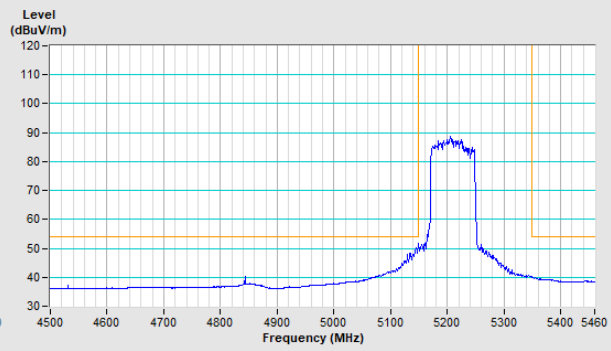


802.11ax (HE80) Channel 42

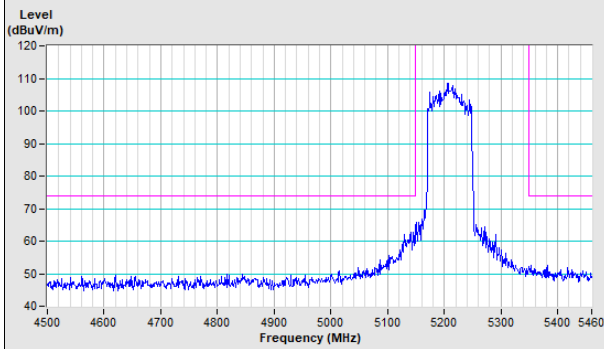
Horizontal (Peak)



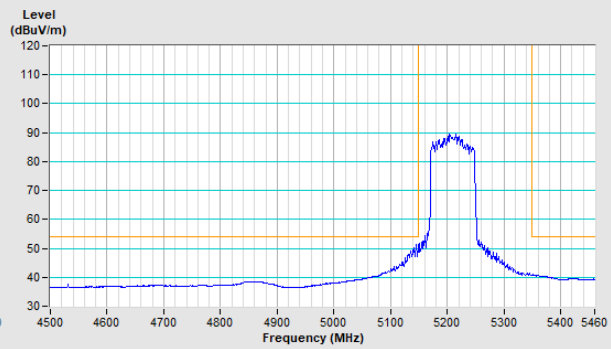
Horizontal (Average)



Vertical (Peak)

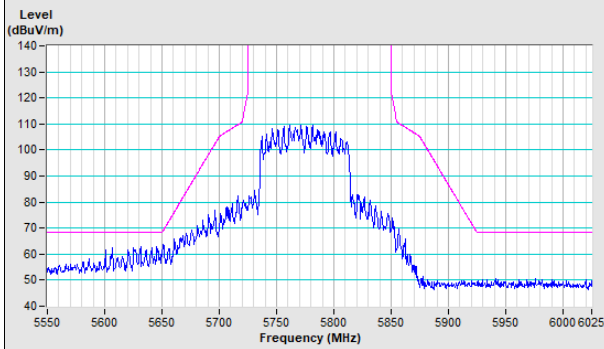


Vertical (Average)

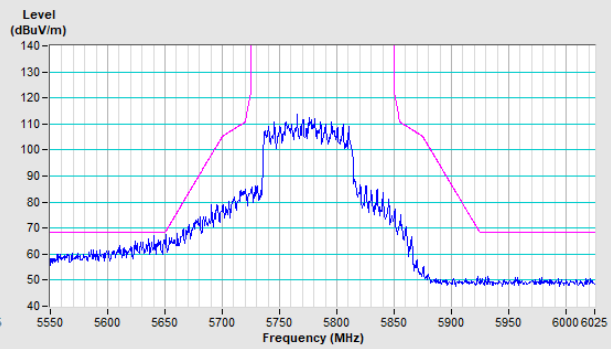


802.11ax (HE80) Channel 155

Horizontal (Peak)



Vertical (Peak)



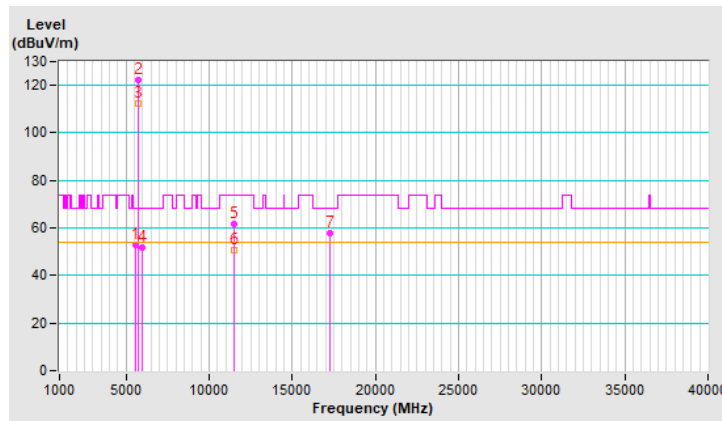
Mode C

RF Mode	TX 802.11a	Channel	CH 149 : 5745 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	#5588.84	52.9 PK	68.2	-15.3	1.17 H	218	50.7	2.2
2	*5745.00	122.1 PK			1.17 H	218	119.6	2.5
3	*5745.00	112.4 AV			1.17 H	218	109.9	2.5
4	#5943.72	51.6 PK	68.2	-16.6	1.17 H	218	48.7	2.9
5	11490.00	61.6 PK	74.0	-12.4	1.57 H	221	49.2	12.4
6	11490.00	50.7 AV	54.0	-3.3	1.57 H	221	38.3	12.4
7	#17235.00	57.9 PK	68.2	-10.3	1.43 H	70	41.2	16.7

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.

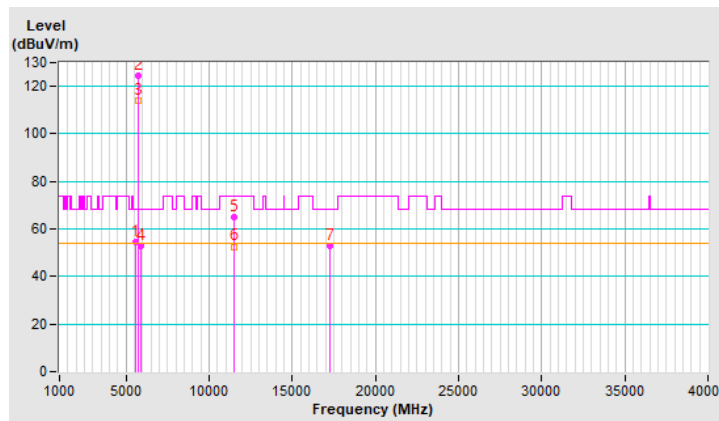


RF Mode	TX 802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	#5606.81	54.5 PK	68.2	-13.7	1.02 V	264	52.3	2.2
2	*5745.00	124.4 PK			1.02 V	264	121.9	2.5
3	*5745.00	114.0 AV			1.02 V	264	111.5	2.5
4	#5933.48	52.9 PK	68.2	-15.3	1.02 V	264	50.0	2.9
5	11490.00	65.2 PK	74.0	-8.8	1.49 V	21	52.8	12.4
6	11490.00	52.6 AV	54.0	-1.4	1.49 V	21	40.2	12.4
7	#17235.00	52.8 PK	68.2	-15.4	1.46 V	110	36.1	16.7

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.



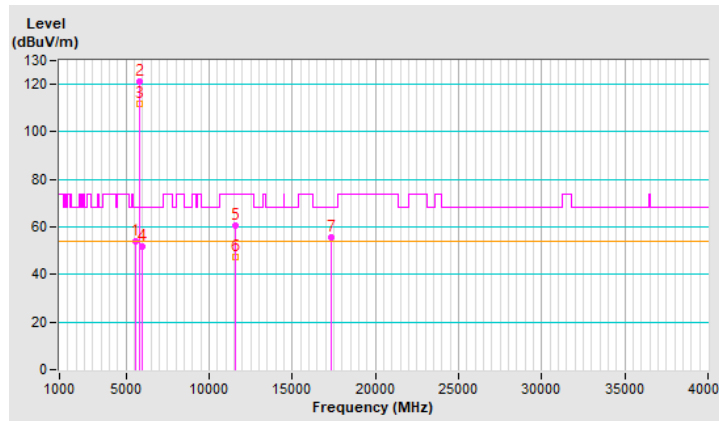
RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	#5575.76	53.8 PK	68.2	-14.4	1.16 H	220	51.6	2.2
2	*5785.00	121.2 PK			1.16 H	220	118.5	2.7
3	*5785.00	111.6 AV			1.16 H	220	108.9	2.7
4	#5979.08	51.9 PK	68.2	-16.3	1.16 H	220	49.0	2.9
5	11570.00	60.5 PK	74.0	-13.5	1.70 H	230	48.1	12.4
6	11570.00	47.6 AV	54.0	-6.4	1.70 H	230	35.2	12.4
7	#17355.00	55.6 PK	68.2	-12.6	1.55 H	48	38.0	17.6

Remarks:

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

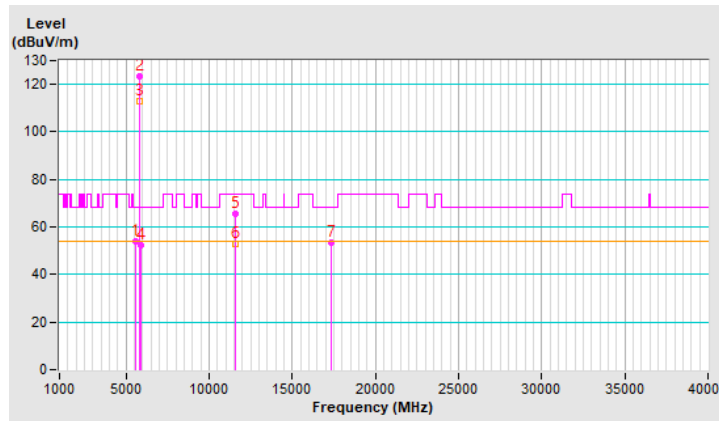


RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	#5606.81	54.2 PK	68.2	-14.0	1.46 V	263	52.0	2.2
2	*5785.00	123.3 PK			1.46 V	263	120.6	2.7
3	*5785.00	113.0 AV			1.46 V	263	110.3	2.7
4	#5933.48	52.1 PK	68.2	-16.1	1.46 V	263	49.2	2.9
5	11570.00	65.7 PK	74.0	-8.3	1.50 V	22	53.3	12.4
6	11570.00	52.8 AV	54.0	-1.2	1.50 V	22	40.4	12.4
7	#17355.00	53.2 PK	68.2	-15.0	1.50 V	123	35.6	17.6

Remarks:

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

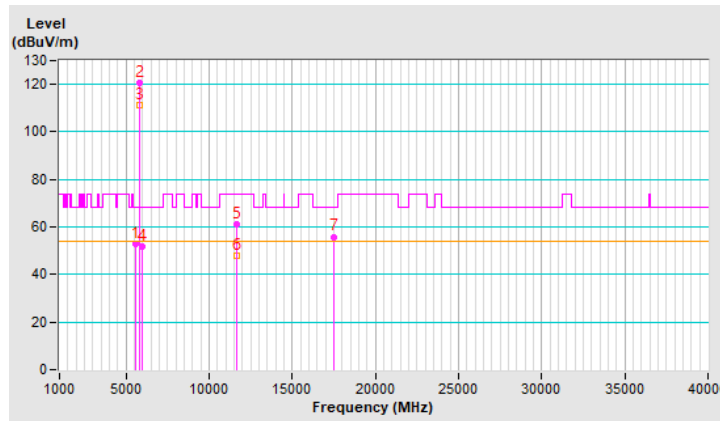


RF Mode	TX 802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	#5610.32	52.7 PK	68.2	-15.5	1.17 H	211	50.5	2.2
2	*5825.00	120.6 PK			1.17 H	211	117.8	2.8
3	*5825.00	111.3 AV			1.17 H	211	108.5	2.8
4	#6006.15	51.8 PK	68.2	-16.4	1.17 H	211	48.9	2.9
5	11650.00	61.2 PK	74.0	-12.8	1.76 H	214	49.3	11.9
6	11650.00	48.1 AV	54.0	-5.9	1.76 H	214	36.2	11.9
7	#17475.00	55.9 PK	68.2	-12.3	1.50 H	40	37.4	18.5

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.

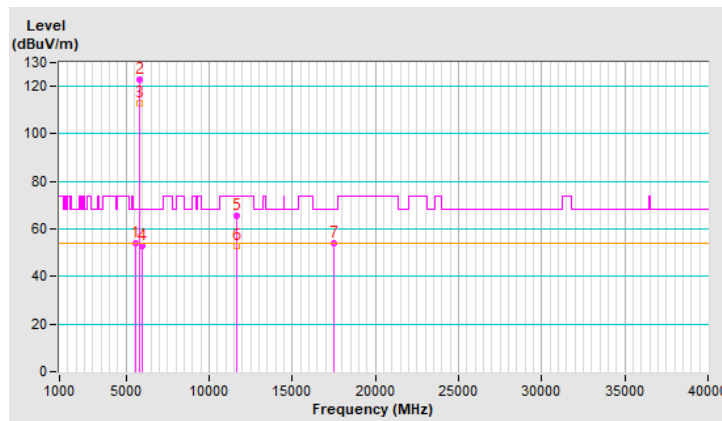


RF Mode	TX 802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	#5585.87	54.0 PK	68.2	-14.2	1.50 V	260	51.8	2.2
2	*5825.00	122.6 PK			1.50 V	260	119.8	2.8
3	*5825.00	112.8 AV			1.50 V	260	110.0	2.8
4	#5955.12	53.1 PK	68.2	-15.1	1.50 V	260	50.2	2.9
5	11650.00	65.5 PK	74.0	-8.5	1.57 V	23	53.6	11.9
6	11650.00	52.7 AV	54.0	-1.3	1.57 V	23	40.8	11.9
7	#17475.00	54.2 PK	68.2	-14.0	1.55 V	106	35.7	18.5

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.

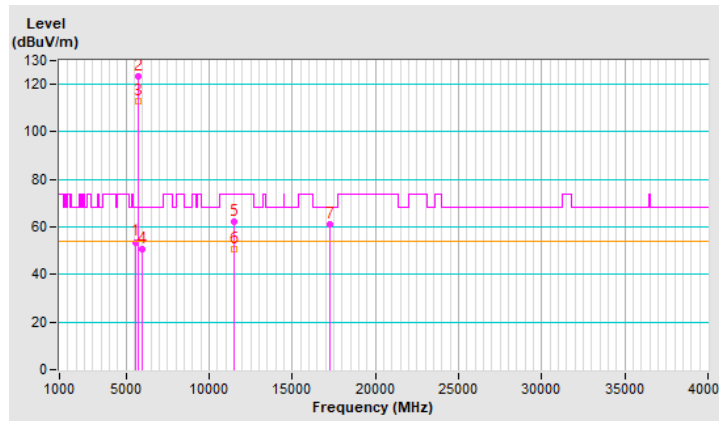


RF Mode	TX 802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	#5590.52	53.7 PK	68.2	-14.5	1.32 H	214	51.5	2.2
2	*5745.00	123.3 PK			1.32 H	214	120.8	2.5
3	*5745.00	112.9 AV			1.32 H	214	110.4	2.5
4	#5978.68	50.8 PK	68.2	-17.4	1.32 H	214	47.9	2.9
5	11490.00	62.0 PK	74.0	-12.0	1.44 H	202	49.6	12.4
6	11490.00	50.8 AV	54.0	-3.2	1.44 H	202	38.4	12.4
7	#17235.00	60.9 PK	68.2	-7.3	2.25 H	220	44.2	16.7

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.

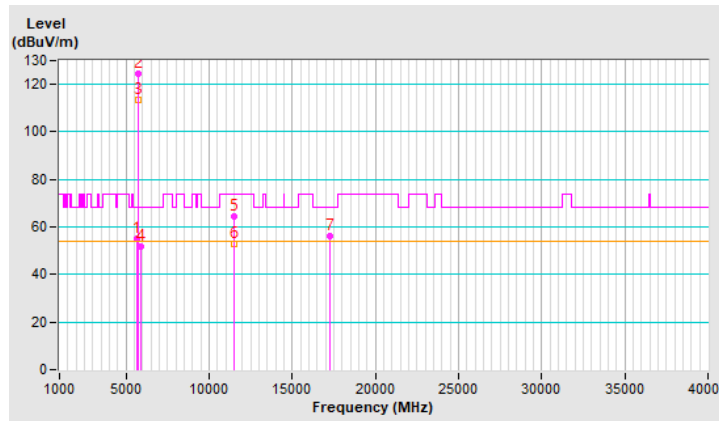


RF Mode	TX 802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	#5650.00	55.0 PK	68.2	-13.2	1.05 V	259	52.7	2.3
2	*5745.00	124.5 PK			1.05 V	259	122.0	2.5
3	*5745.00	113.5 AV			1.05 V	259	111.0	2.5
4	#5927.17	51.8 PK	68.2	-16.4	1.05 V	259	48.9	2.9
5	11490.00	64.2 PK	74.0	-9.8	1.53 V	22	51.8	12.4
6	11490.00	52.7 AV	54.0	-1.3	1.53 V	22	40.3	12.4
7	#17235.00	56.1 PK	68.2	-12.1	1.53 V	224	39.4	16.7

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.

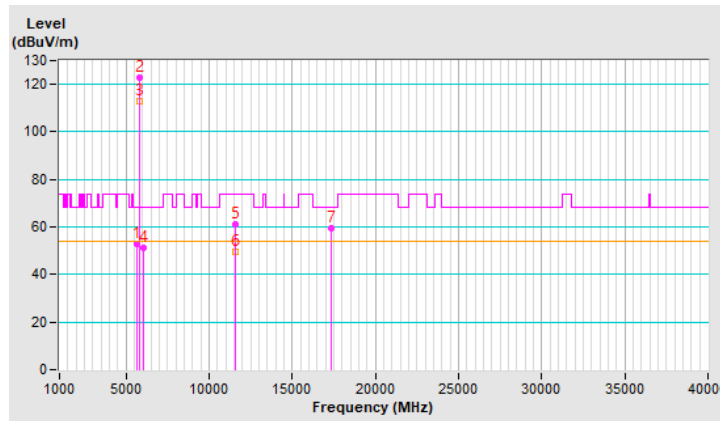


RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	#5631.33	53.1 PK	68.2	-15.1	1.31 H	222	50.8	2.3
2	*5785.00	122.8 PK			1.31 H	222	120.1	2.7
3	*5785.00	112.7 AV			1.31 H	222	110.0	2.7
4	#6016.08	51.0 PK	68.2	-17.2	1.31 H	222	48.0	3.0
5	11570.00	61.3 PK	74.0	-12.7	1.68 H	205	48.9	12.4
6	11570.00	49.6 AV	54.0	-4.4	1.68 H	205	37.2	12.4
7	#17355.00	59.7 PK	68.2	-8.5	2.16 H	243	42.1	17.6

Remarks:

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

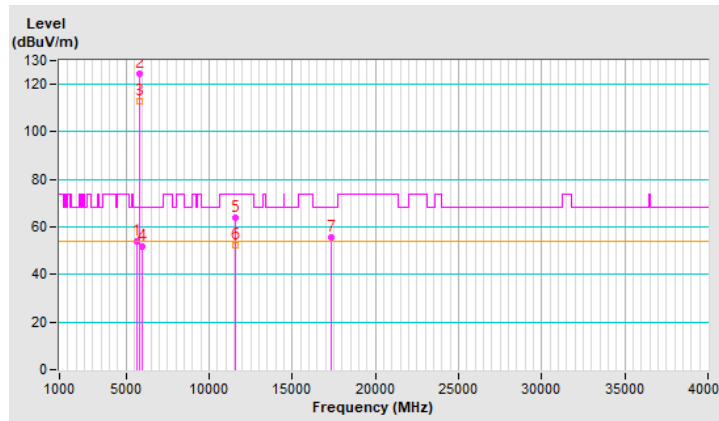


RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	#5626.76	54.0 PK	68.2	-14.2	1.00 V	257	51.7	2.3
2	*5785.00	124.5 PK			1.00 V	257	121.8	2.7
3	*5785.00	113.1 AV			1.00 V	257	110.4	2.7
4	#5958.57	51.9 PK	68.2	-16.3	1.00 V	257	49.0	2.9
5	11570.00	63.8 PK	74.0	-10.2	1.49 V	20	51.4	12.4
6	11570.00	52.4 AV	54.0	-1.6	1.49 V	20	40.0	12.4
7	#17355.00	55.4 PK	68.2	-12.8	1.46 V	242	37.8	17.6

Remarks:

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



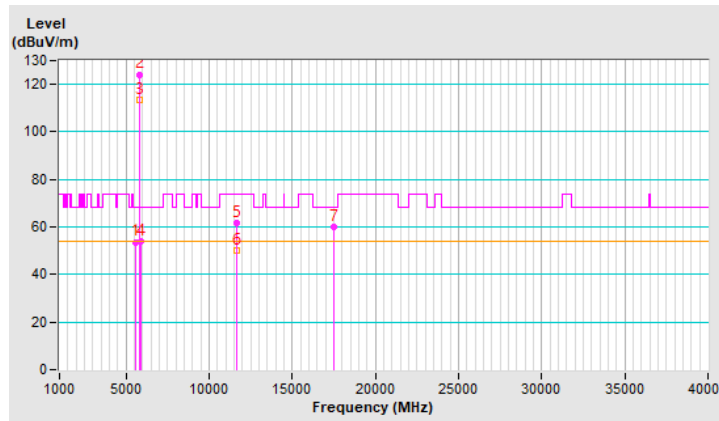
RF Mode	TX 802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	#5616.44	53.7 PK	68.2	-14.5	1.90 H	220	51.5	2.2
2	*5825.00	124.2 PK			1.90 H	220	121.4	2.8
3	*5825.00	113.4 AV			1.90 H	220	110.6	2.8
4	#5924.30	54.2 PK	68.2	-14.0	1.90 H	220	51.3	2.9
5	11650.00	61.6 PK	74.0	-12.4	1.60 H	195	49.7	11.9
6	11650.00	50.1 AV	54.0	-3.9	1.60 H	195	38.2	11.9
7	#17475.00	59.8 PK	68.2	-8.4	2.30 H	231	41.3	18.5

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.

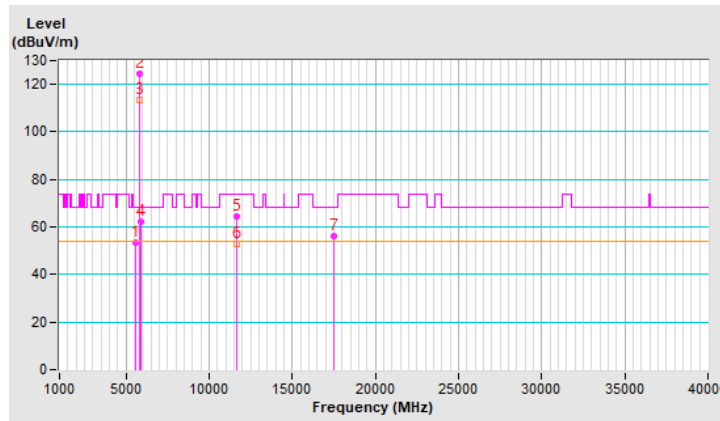


RF Mode	TX 802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	#5616.44	53.2 PK	68.2	-15.0	1.10 V	268	51.0	2.2
2	*5825.00	124.4 PK			1.10 V	268	121.6	2.8
3	*5825.00	113.6 AV			1.10 V	268	110.8	2.8
4	#5924.30	62.1 PK	68.2	-6.1	1.10 V	268	59.2	2.9
5	11650.00	64.4 PK	74.0	-9.6	1.46 V	20	52.5	11.9
6	11650.00	52.8 AV	54.0	-1.2	1.46 V	20	40.9	11.9
7	#17475.00	56.1 PK	68.2	-12.1	1.50 V	251	37.6	18.5

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.

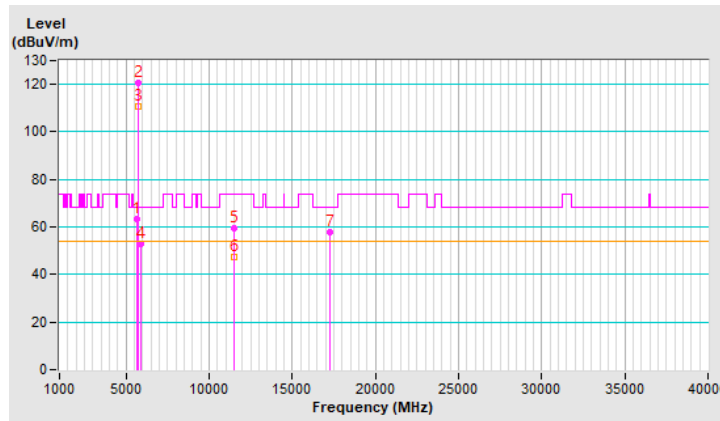


RF Mode	TX 802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	#5648.80	63.5 PK	68.2	-4.7	1.31 H	208	61.2	2.3
2	*5755.00	120.7 PK			1.31 H	208	118.1	2.6
3	*5755.00	110.5 AV			1.31 H	208	107.9	2.6
4	#5929.25	52.7 PK	68.2	-15.5	1.31 H	208	49.8	2.9
5	11510.00	59.2 PK	74.0	-14.8	1.58 H	184	46.8	12.4
6	11510.00	47.2 AV	54.0	-6.8	1.58 H	184	34.8	12.4
7	#17265.00	57.6 PK	68.2	-10.6	2.27 H	218	40.8	16.8

Remarks:

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

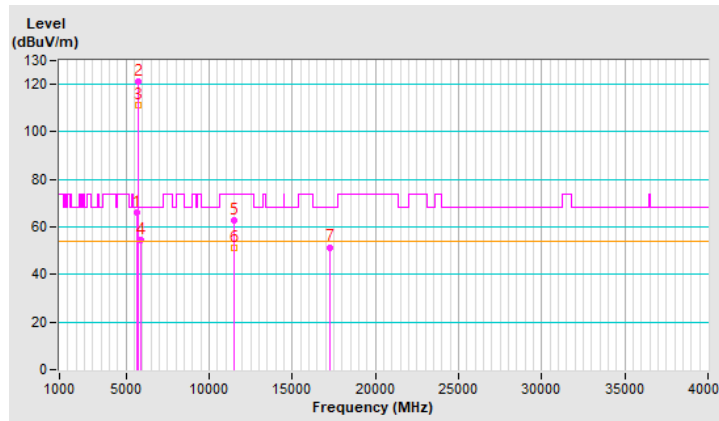


RF Mode	TX 802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	#5649.61	66.1 PK	68.2	-2.1	1.07 V	257	63.8	2.3
2	*5755.00	121.4 PK			1.07 V	257	118.8	2.6
3	*5755.00	111.0 AV			1.07 V	257	108.4	2.6
4	#5930.91	54.7 PK	68.2	-13.5	1.07 V	257	51.8	2.9
5	11510.00	62.6 PK	74.0	-11.4	1.59 V	19	50.2	12.4
6	11510.00	51.3 AV	54.0	-2.7	1.59 V	19	38.9	12.4
7	#17265.00	51.5 PK	68.2	-16.7	1.43 V	255	34.7	16.8

Remarks:

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

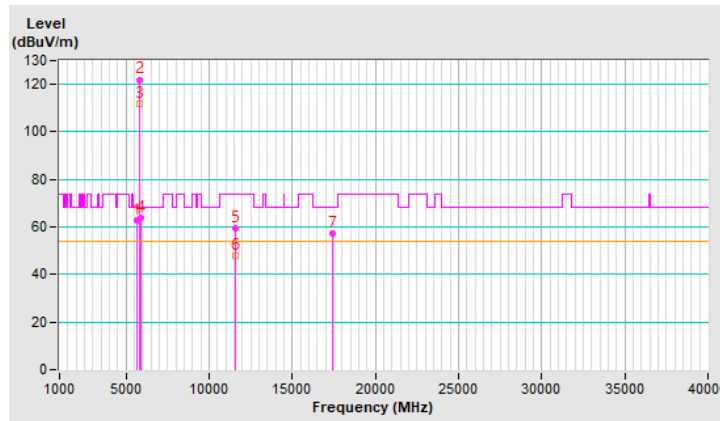


RF Mode	TX 802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	#5649.95	62.8 PK	68.2	-5.4	1.27 H	211	60.5	2.3
2	*5795.00	122.0 PK			1.27 H	211	119.3	2.7
3	*5795.00	111.6 AV			1.27 H	211	108.9	2.7
4	#5928.59	63.7 PK	68.2	-4.5	1.27 H	211	60.8	2.9
5	11590.00	59.5 PK	74.0	-14.5	1.53 H	197	47.2	12.3
6	11590.00	47.8 AV	54.0	-6.2	1.53 H	197	35.5	12.3
7	#17385.00	57.1 PK	68.2	-11.1	2.24 H	236	39.3	17.8

Remarks:

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

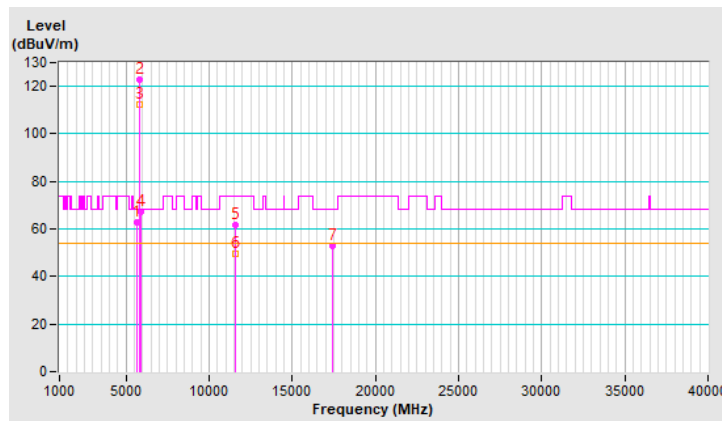


RF Mode	TX 802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	#5649.19	63.0 PK	68.2	-5.2	1.26 V	270	60.7	2.3
2	*5795.00	122.6 PK			1.26 V	270	119.9	2.7
3	*5795.00	112.1 AV			1.26 V	270	109.4	2.7
4	#5927.22	67.1 PK	68.2	-1.1	1.26 V	270	64.2	2.9
5	11590.00	61.7 PK	74.0	-12.3	1.54 V	29	49.4	12.3
6	11590.00	49.6 AV	54.0	-4.4	1.54 V	29	37.3	12.3
7	#17385.00	52.9 PK	68.2	-15.3	1.48 V	240	35.1	17.8

Remarks:

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

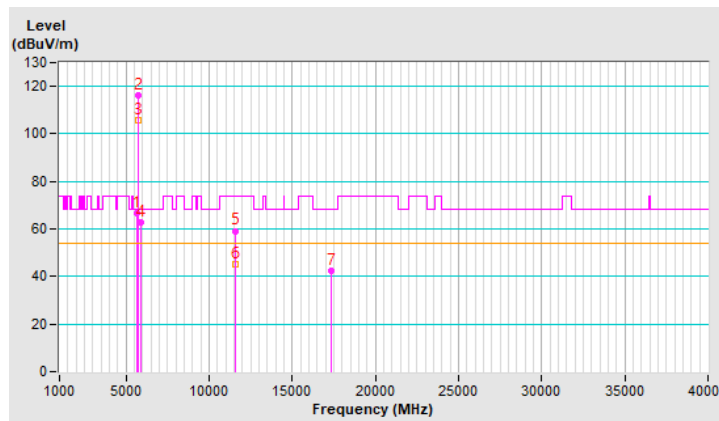


RF Mode	TX 802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

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	#5642.11	66.8 PK	68.2	-1.4	1.39 H	227	64.5	2.3
2	*5775.00	116.1 PK			1.39 H	227	113.5	2.6
3	*5775.00	105.7 AV			1.39 H	227	103.1	2.6
4	#5929.88	62.6 PK	68.2	-5.6	1.39 H	227	59.7	2.9
5	11550.00	59.2 PK	74.0	-14.8	1.52 H	187	46.9	12.3
6	11550.00	45.4 AV	54.0	-8.6	1.52 H	187	33.1	12.3
7	#17325.00	42.6 PK	68.2	-25.6	2.21 H	238	25.4	17.2

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.

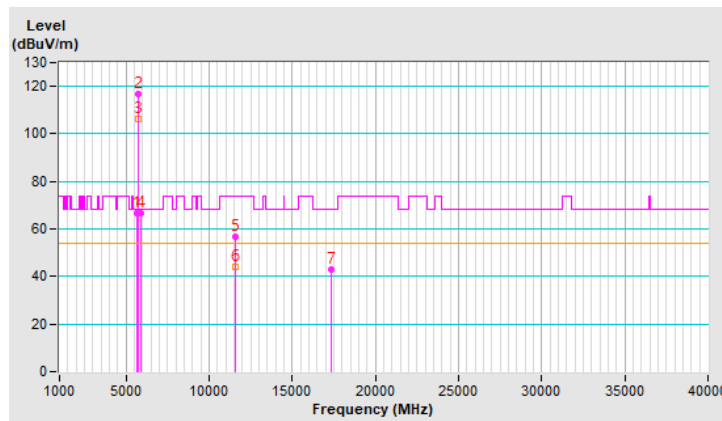


RF Mode	TX 802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 69% RH
Tested By	Sampson Chen		

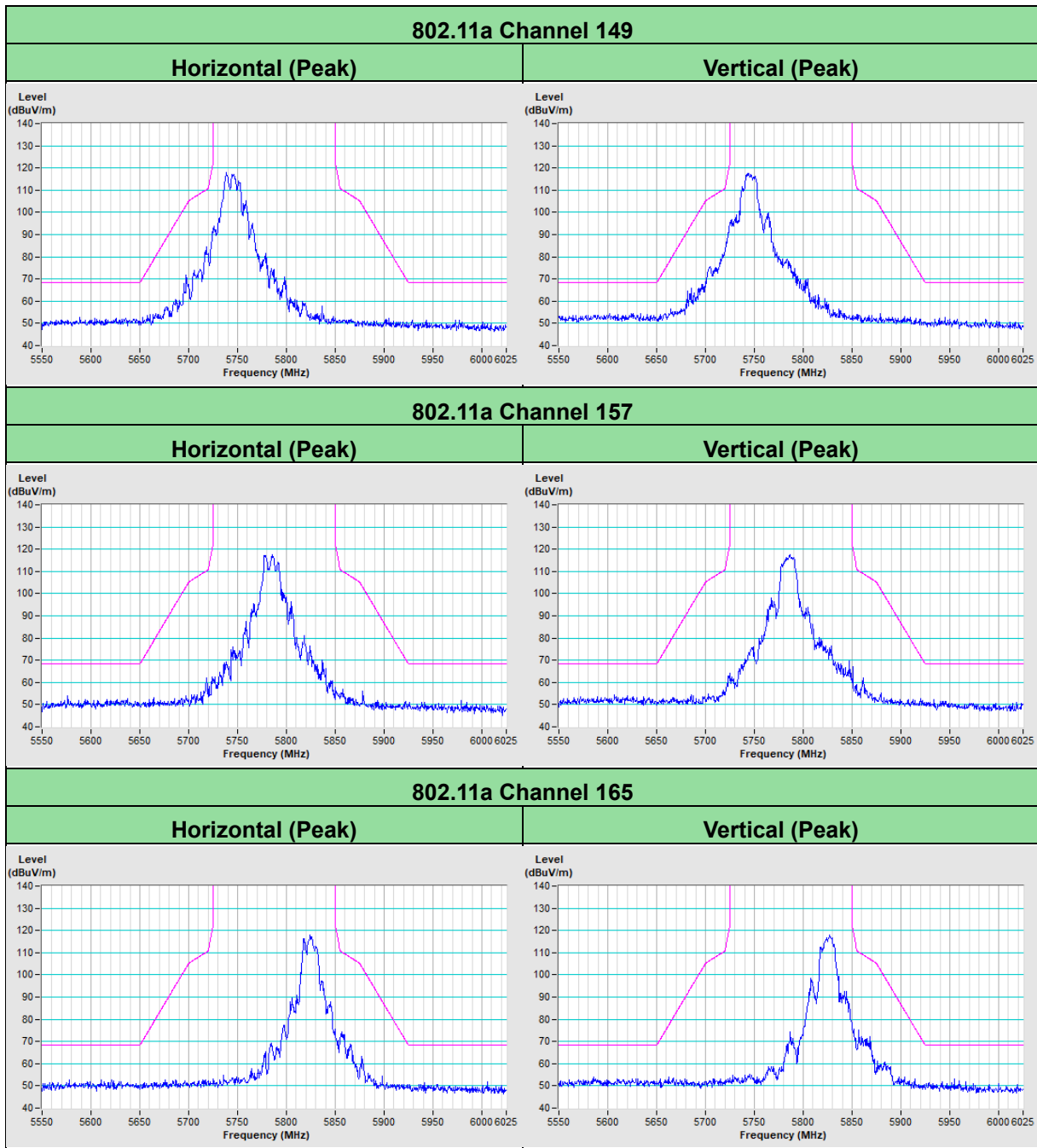
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.20	66.5 PK	68.2	-1.7	1.43 V	270	64.2	2.3
2	*5775.00	116.8 PK			1.43 V	270	114.2	2.6
3	*5775.00	106.2 AV			1.43 V	270	103.6	2.6
4	#5927.97	66.8 PK	68.2	-1.4	1.43 V	270	63.9	2.9
5	11550.00	56.8 PK	74.0	-17.2	1.58 V	3	44.5	12.3
6	11550.00	44.2 AV	54.0	-9.8	1.58 V	3	31.9	12.3
7	#17325.00	43.1 PK	68.2	-25.1	1.43 V	268	25.9	17.2

Remarks:

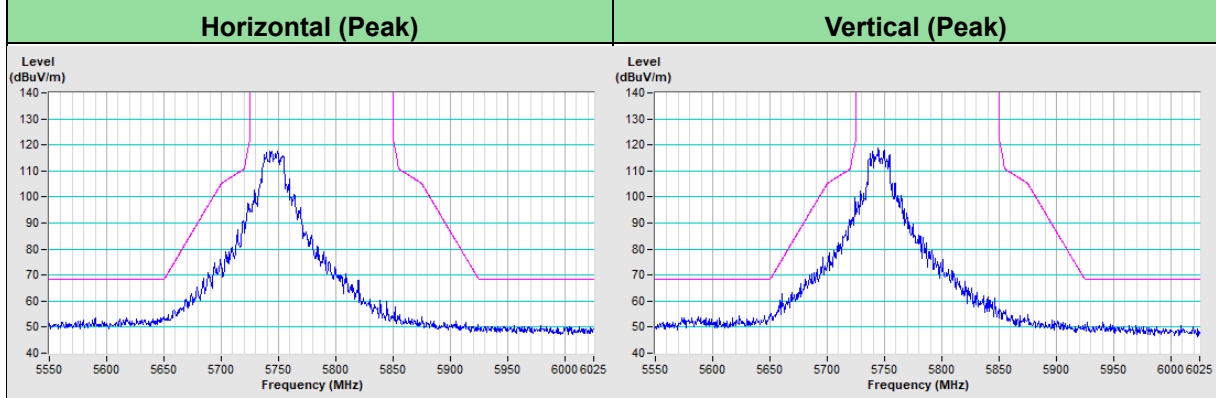
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency,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



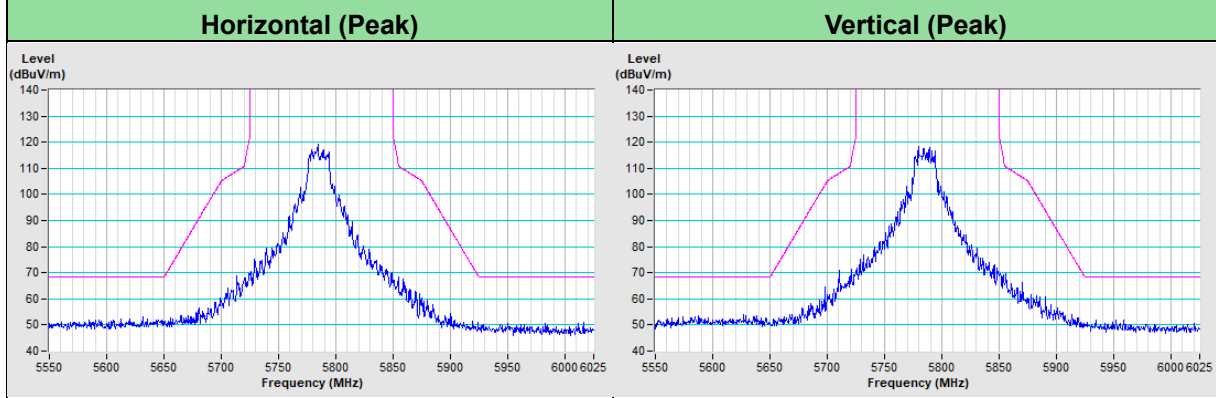
Mode C_Plot of Band Edge



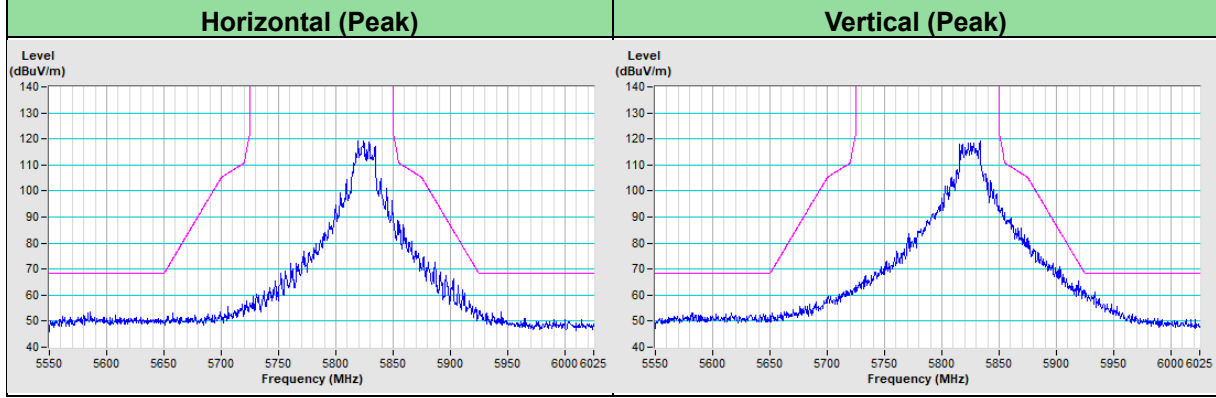
802.11ax (HE20) Channel 149



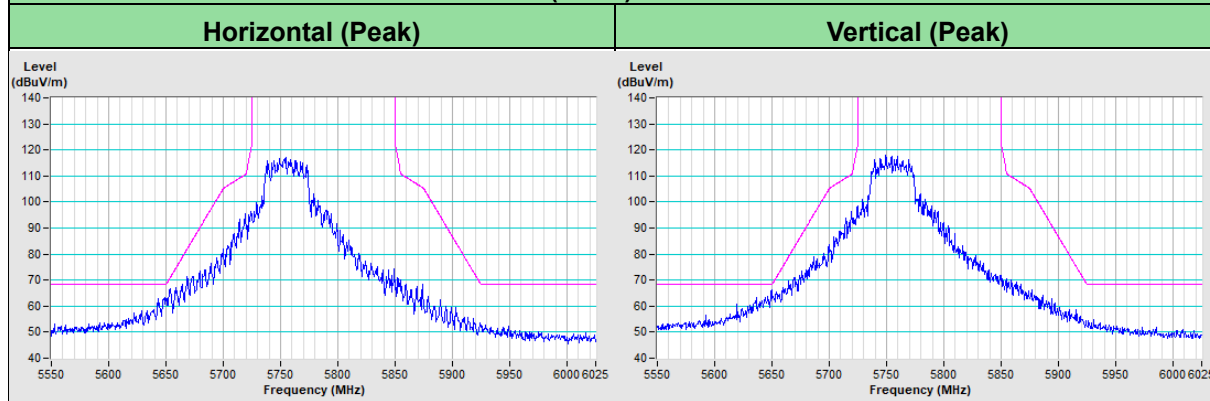
802.11ax (HE20) Channel 157



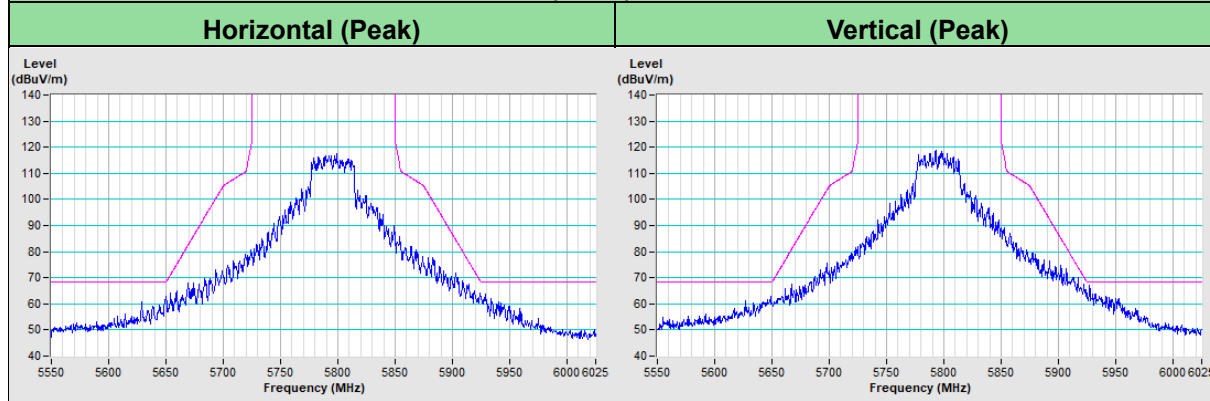
802.11ax (HE20) Channel 165



802.11ax (HE40) Channel 151



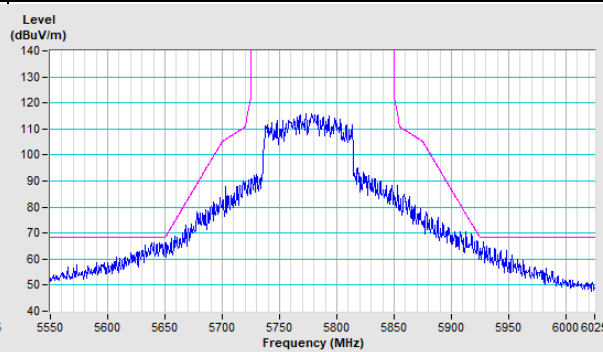
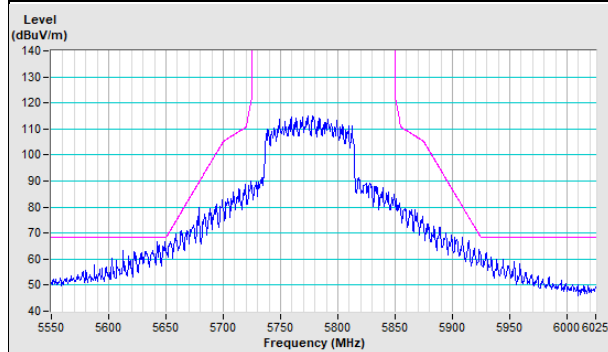
802.11ax (HE40) Channel 159



802.11ax (HE80) Channel 155

Horizontal (Peak)

Vertical (Peak)



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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