

## FCC Test Report

**Report No.:** RFBBQZ-WTW-P21060951-2

**FCC ID:** PY321400546

**Test Model:** WAX630E, WAX620E

**Received Date:** May 05, 2021

**Test Date:** May 05 ~ Nov. 15, 2021

**Issued Date:** Nov. 29, 2021

**Applicant and Manufacturer:** NETGEAR, INC

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**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
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**FCC Registration / Designation Number:** 788550 / TW0003



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### Release Control Record

Issue No.	Description	Date Issued
RFBBQZ-WTW-P21060951-2	Original release.	Nov. 29, 2021

## 1 Certificate of Conformity

**Product:** Insight Managed WiFi 6E AXE7800 Tri-band Multi-Gig Access Point,  
Insight Managed WiFi 6E AXE5400 Tri-band Multi-Gig Access Point

**Brand:** NETGEAR

**Test Model:** WAX630E, WAX620E

**Sample Status:** Engineering Sample

**Applicant and  
Manufacturer:** NETGEAR, INC

**Test Date:** May 05 ~ Nov. 15, 2021

**Standards:** 47 CFR FCC Part 15, Subpart E (Section 15.407)  
ANSI C63.10:2013

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.

**Prepared by :** Celine Chou , **Date:** Nov. 29, 2021  
Celine Chou / Senior Specialist

**Approved by :** Jeremy Lin , **Date:** Nov. 29, 2021  
Jeremy Lin / Project Engineer

## 2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(9)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -1.42dB at 16.51800MHz.
15.407(b)(1/2/3/4(i/ii)/9)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -0.1dB at 5150.00MHz, 5466.00MHz, 5470.00MHz, 5642.80MHz, 5725.00MHz, 11490.00MHz and 11510.00MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector is i-pex(MHF) not a standard connector.

### Note:

- For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.
- For U-NII-1, U-NII-2A, U-NII-2C band compliance with rule 15.407(b) of the band-edge items, the test plots were recorded in Annex B. Test Procedures refer to report 4.1.3.
- 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	Frequency	Expanded Uncertainty (k=2) ( $\pm$ )
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.79 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.63 dB
	200MHz ~ 1000MHz	3.64 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

### 2.2 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

Product	Insight Managed WiFi 6E AXE7800 Tri-band Multi-Gig Access Point, Insight Managed WiFi 6E AXE5400 Tri-band Multi-Gig Access Point
Brand	NETGEAR
Test Model	WAX630E, WAX620E
Model Difference	Refer to note
Sample Status	Engineering Sample
Power Supply Rating	12Vdc from adapter 54Vdc from POE
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
Modulation Technology	OFDM, OFDMA
Transfer Rate	For WAX630E 802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 600Mbps 802.11ac: up to 3466.7Mbps 802.11ax: up to 4804.0Mbps For WAX620E 802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 300Mbps 802.11ac: up to 1733.3Mbps 802.11ax: up to 2401.9Mbps
Operating Frequency	5180 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
Number of Channel	5180 ~ 5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 8 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 4 802.11ac (VHT80), 802.11ax (HE80): 2 802.11ac (VHT160), 802.11ax (HE160): 1 5500 ~ 5720MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 12 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 6 802.11ac (VHT80), 802.11ax (HE80): 3 802.11ac (VHT160), 802.11ax (HE160): 1 5745 ~ 5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 5 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1

Output Power	For WAX630E CDD Mode: 5180 ~ 5250MHz: 822.154mW 5250 ~ 5320MHz: 210.755mW 5500 ~ 5720MHz: 212.760mW 5745 ~ 5825MHz: 829.376mW Beamforming Mode: 5180 ~ 5250MHz: 822.154mW 5250 ~ 5320MHz: 210.755mW 5500 ~ 5720MHz: 212.093mW 5745 ~ 5825MHz: 829.376mW For WAX620E CDD Mode: 5180 ~ 5250MHz: 551.709mW 5250 ~ 5320MHz: 212.591mW 5500 ~ 5720MHz: 211.946mW 5745 ~ 5825MHz: 828.954mW Beamforming Mode: 5180 ~ 5250MHz: 505.305mW 5250 ~ 5320MHz: 212.591mW 5500 ~ 5720MHz: 211.946mW 5745 ~ 5825MHz: 827.052mW
Antenna Type	Refer to note
Antenna Connector	Refer to note
Accessory Device	Refer to note
Cable Supplied	NA

Note:

- The following models are provided to this EUT.

Brand	Model	Description
NETGEAR	WAX630E	2.4G & 6G support 2TX, 5G support 4TX
	WAX620E	2.4G & 5G & 6G support 2TX

2. For WAX630E, the EUT incorporates a MIMO function. Physically, the EUT provides 4 completed transmitters and 4 receivers.

Modulation Mode	TX Function	Beamforming Mode
802.11a	4TX	Not Support
802.11n (HT20)	4TX	Not Support
802.11n (HT40)	4TX	Not Support
802.11ac (VHT20)	4TX	Support
802.11ac (VHT40)	4TX	Support
802.11ac (VHT80)	4TX	Support
802.11ac (VHT160)	4TX	Support
802.11ax (HE20)	4TX	Support
802.11ax (HE40)	4TX	Support
802.11ax (HE80)	4TX	Support
802.11ax (HE160)	4TX	Support

\* The bandwidth and modulation are similar for HT20/HT40 on 802.11n mode and VHT20/VHT40/VHT80/VHT160 on 802.11ac mode and HE20/HE40/HE80/HE160 on 802.11ax mode. Therefore the investigated worst case is the representative mode in test report. (Final test mode refer section 3.2.1)

\* For 802.11n and 802.11ac, CDD mode and Beamforming mode are presented in power output test item. For other test items, CDD mode is the worst case for final tests after pretesting.

3. For WAX620E, the EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

Modulation Mode	TX Function	Beamforming Mode
802.11a	2TX	Not Support
802.11n (HT20)	2TX	Not Support
802.11n (HT40)	2TX	Not Support
802.11ac (VHT20)	2TX	Support
802.11ac (VHT40)	2TX	Support
802.11ac (VHT80)	2TX	Support
802.11ac (VHT160)	2TX	Support
802.11ax (HE20)	2TX	Support
802.11ax (HE40)	2TX	Support
802.11ax (HE80)	2TX	Support
802.11ax (HE160)	2TX	Support

\* The bandwidth and modulation are similar for HT20/HT40 on 802.11n mode and VHT20/VHT40/VHT80/VHT160 on 802.11ac mode and HE20/HE40/HE80/HE160 on 802.11ax mode. Therefore the investigated worst case is the representative mode in test report. (Final test mode refer section 3.2.1)

\* For 802.11n and 802.11ac, CDD mode and Beamforming mode are presented in power output test item. For other test items, CDD mode is the worst case for final tests after pretesting.

4. The EUT consumes power from the following adapters and POE.

Adapter 1	
Brand	NETGEAR
Model	AD2150F10
Input Power	100-120Vac, 50/60MHz, 1.0A Max.
Output Power	12Vdc, 3.5A
Power Line	1.8m power cable without core attached on adapter

Adapter 2	
Brand	NETGEAR
Model	2ABN042F
Input Power	100-240Vac, 50/60MHz, 1.3A Max.
Output Power	12Vdc, 3.5A
Power Line	1.85m power cable without core attached on adapter

\* Adapter 1 was chosen for final test and presented in the test report.

POE (for support unit only)	
Brand	Fujitsu Limited
Model	SJMPWJ1
Input Power	100Vac, 50/60Hz, 0.4A
Output Power	54Vdc, 0.8A

5. The Antenna information is listed as below.

For WAX630E

Ant. Type	Dipole		
Connector Type	i-pex(MHF)		
Directional Gain (dBi)			
5180-5250MHz	5250-5320MHz	5500-5720MHz	5745-5825MHz
6.25	6.26	6.12	6.06

\* For detailed antenna information, please refer to the Operational Description-Antenna Specification report.

For WAX620E

Ant. Type	Dipole		
Connector Type	i-pex(MHF)		
Directional Gain (dBi)			
5180-5250MHz	5250-5320MHz	5500-5720MHz	5745-5825MHz
4.42	4.38	4.17	4.11

\* For detailed antenna information, please refer to the Operational Description-Antenna Specification report.

### 3.2 Description of Test Modes

#### For 5180 ~ 5320MHz:

8 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
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

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

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

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

Channel	Frequency	Channel	Frequency
42	5210MHz	58	5290MHz

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

Channel	Frequency
50	5250MHz

#### For 5500 ~ 5720MHz:

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

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

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

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

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

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

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

Channel	Frequency
114	5570MHz

For 5745 ~ 5825MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

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

Channel	Frequency
155	5775MHz

### 3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE $\geq$ 1G	RE<1G	PLC	APCM	
A	√	√	√	√	Powered by adapter
B	-	√	√	-	Powered by POE

Where RE $\geq$ 1G: Radiated Emission above 1GHz & Bandedge Measurement  
 RE<1G: Radiated Emission below 1GHz  
 PLC: Power Line Conducted Emission  
 APCM: Antenna Port Conducted Measurement

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane for 4TX and X-plane for 2TX**.
2. Radiated emission test (below 1GHz) and power line conducted emission test items chosen the worst maximum power.

#### Radiated Emission Test (Above 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)	TX Functon
A	802.11a	5180-5250	36 to 48	36, 40, 48	OFDM	6.0	4TX (WAX630E), 2TX (WAX620E)
	802.11ax (HE20)		36 to 48	36, 40, 48	OFDMA	MCS0	
	802.11ax (HE40)		38 to 46	38, 46	OFDMA	MCS0	
	802.11ax (HE80)		42	42	OFDMA	MCS0	
	802.11ax (HE160)		50	50	OFDMA	MCS0	
A	802.11a	5250-5320	52 to 64	52, 60, 64	OFDM	6.0	4TX (WAX630E), 2TX (WAX620E)
	802.11ax (HE20)		52 to 64	52, 60, 64	OFDMA	MCS0	
	802.11ax (HE40)		54 to 62	54, 62	OFDMA	MCS0	
	802.11ax (HE80)		58	58	OFDMA	MCS0	
	802.11ax (HE160)		50	50	OFDMA	MCS0	
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0	4TX (WAX630E), 2TX (WAX620E)
	802.11ax (HE20)		100 to 144	100, 116, 140, 144	OFDMA	MCS0	
	802.11ax (HE40)		102 to 142	102, 110, 134, 142	OFDMA	MCS0	
	802.11ax (HE80)		106 to 138	106, 122, 138	OFDMA	MCS0	
	802.11ax (HE160)		114	114	OFDMA	MCS0	
A	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0	4TX (WAX630E), 2TX (WAX620E)
	802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	MCS0	
	802.11ax (HE40)		151 to 159	151, 159	OFDMA	MCS0	
	802.11ax (HE80)		155	155	OFDMA	MCS0	

**Radiated Emission Test (Below 1GHz):**

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)	TX Functon
A, B	802.11a	5180-5250	36 to 48	149	OFDM	6.0	2TX (WAX620E)
	802.11a	5250-5320	52 to 64		OFDM	6.0	
	802.11a	5500-5720	100 to 144		OFDM	6.0	
	802.11a	5745-5825	149 to 165		OFDM	6.0	
A, B	802.11ax (HE20)	5180-5250	36 to 48	157	OFDMA	MCS0	4TX (WAX630E)
	802.11ax (HE20)	5250-5320	52 to 64		OFDMA	MCS0	
	802.11ax (HE20)	5500-5720	100 to 144		OFDMA	MCS0	
	802.11ax (HE20)	5745-5825	149 to 165		OFDMA	MCS0	

**Power Line Conducted Emission Test:**

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)	TX Functon
A, B	802.11a	5180-5250	36 to 48	149	OFDM	6.0	2TX (WAX620E)
	802.11a	5250-5320	52 to 64		OFDM	6.0	
	802.11a	5500-5720	100 to 144		OFDM	6.0	
	802.11a	5745-5825	149 to 165		OFDM	6.0	
A, B	802.11ax (HE20)	5180-5250	36 to 48	157	OFDMA	MCS0	4TX (WAX630E)
	802.11ax (HE20)	5250-5320	52 to 64		OFDMA	MCS0	
	802.11ax (HE20)	5500-5720	100 to 144		OFDMA	MCS0	
	802.11ax (HE20)	5745-5825	149 to 165		OFDMA	MCS0	

**Bandwidth, Power Spectral Density and Frequency Stability Measurement:**

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)	TX Functon
A	802.11a	5180-5250	36 to 48	36, 40, 48	OFDM	6.0	4TX (WAX630E), 2TX (WAX620E)
	802.11ax (HE20)		36 to 48	36, 40, 48	OFDMA	MCS0	
	802.11ax (HE40)		38 to 46	38, 46	OFDMA	MCS0	
	802.11ax (HE80)		42	42	OFDMA	MCS0	
	802.11ax (HE160)		50	50	OFDMA	MCS0	
A	802.11a	5250-5320	52 to 64	52, 60, 64	OFDM	6.0	4TX (WAX630E), 2TX (WAX620E)
	802.11ax (HE20)		52 to 64	52, 60, 64	OFDMA	MCS0	
	802.11ax (HE40)		54 to 62	54, 62	OFDMA	MCS0	
	802.11ax (HE80)		58	58	OFDMA	MCS0	
	802.11ax (HE160)		50	50	OFDMA	MCS0	
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0	4TX (WAX630E), 2TX (WAX620E)
	802.11ax (HE20)		100 to 144	100, 116, 140, 144	OFDMA	MCS0	
	802.11ax (HE40)		102 to 142	102, 110, 134, 142	OFDMA	MCS0	
	802.11ax (HE80)		106 to 138	106, 122, 138	OFDMA	MCS0	
	802.11ax (HE160)		114	114	OFDMA	MCS0	
A	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0	4TX (WAX630E), 2TX (WAX620E)
	802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	MCS0	
	802.11ax (HE40)		151 to 159	151, 159	OFDMA	MCS0	
	802.11ax (HE80)		155	155	OFDMA	MCS0	

**Conducted Output Power Measurement:**

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)	TX Functon
A	802.11a	5180-5250	36 to 48	36, 40, 48	OFDM	6.0	4TX (WAX630E), 2TX (WAX620E)
	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	6.5	
	802.11ac (VHT40)		38 to 46	38, 46	OFDM	13.5	
	802.11ac (VHT80)		42	42	OFDM	29.3	
	802.11ac (VHT160)		50	50	OFDM	58.5	
	802.11ax (HE20)		36 to 48	36, 40, 48	OFDMA	MCS0	
	802.11ax (HE40)		38 to 46	38, 46	OFDMA	MCS0	
	802.11ax (HE80)		42	42	OFDMA	MCS0	
	802.11ax (HE160)		50	50	OFDMA	MCS0	
A	802.11a	5250-5320	52 to 64	52, 60, 64	OFDM	6.0	4TX (WAX630E), 2TX (WAX620E)
	802.11ac (VHT20)		52 to 64	52, 60, 64	OFDM	6.5	
	802.11ac (VHT40)		54 to 62	54, 62	OFDM	13.5	
	802.11ac (VHT80)		58	58	OFDM	29.3	
	802.11ac (VHT160)		50	50	OFDM	58.5	
	802.11ax (HE20)		52 to 64	52, 60, 64	OFDMA	MCS0	
	802.11ax (HE40)		54 to 62	54, 62	OFDMA	MCS0	
	802.11ax (HE80)		58	58	OFDMA	MCS0	
	802.11ax (HE160)		50	50	OFDMA	MCS0	
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0	4TX (WAX630E), 2TX (WAX620E)
	802.11ac (VHT20)		100 to 144	100, 116, 140, 144	OFDM	6.5	
	802.11ac (VHT40)		102 to 142	102, 110, 134, 142	OFDM	13.5	
	802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	29.3	
	802.11ac (VHT160)		114	114	OFDM	58.5	
	802.11ax (HE20)		100 to 144	100, 116, 140, 144	OFDMA	MCS0	
	802.11ax (HE40)		102 to 142	102, 110, 134, 142	OFDMA	MCS0	
	802.11ax (HE80)		106 to 138	106, 122, 138	OFDMA	MCS0	
	802.11ax (HE160)		114	114	OFDMA	MCS0	
A	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0	4TX (WAX630E), 2TX (WAX620E)
	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	6.5	
	802.11ac (VHT40)		151 to 159	151, 159	OFDM	13.5	
	802.11ac (VHT80)		155	155	OFDM	29.3	
	802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	MCS0	
	802.11ax (HE40)		151 to 159	151, 159	OFDMA	MCS0	
	802.11ax (HE80)		155	155	OFDMA	MCS0	

**Test Condition:**

Applicable to	Environmental Conditions	Input Power	Tested by
RE $\geq$ 1G	25 deg. C, 70% RH	120Vac, 60Hz	Noah Chang Hans Wu
RE<1G	25 deg. C, 70% RH 23 deg. C, 66% RH	120Vac, 60Hz 54Vdc	Hans Wu Titan Hsu
PLC	25 deg. C, 70% RH 25 deg. C, 75% RH 23 deg. C, 75% RH 23 deg. C, 66% RH	120Vac, 60Hz 54Vdc	Rex Wang Greg Lin Titan Hsu
APCM	25 deg. C, 60% RH	120Vac, 60Hz	Jisyong Wang

### 3.3 Duty Cycle of Test Signal

#### 4TX (WAX630E)

Duty cycle of test signal is < 98%, duty factor is required.

802.11a: Duty cycle =  $1.972/2.107 = 0.936$ , Duty factor =  $10 * \log(1/0.936) = 0.29$

802.11ax (HE20): Duty cycle =  $5.430/5.860 = 0.927$ , Duty factor =  $10 * \log(1/0.927) = 0.33$

802.11ax (HE40): Duty cycle =  $5.375/5.900 = 0.911$ , Duty factor =  $10 * \log(1/0.911) = 0.40$

802.11ax (HE80): Duty cycle =  $5.420/5.930 = 0.914$ , Duty factor =  $10 * \log(1/0.914) = 0.39$

802.11ax (HE160): Duty cycle =  $5.375/6.325 = 0.850$ , Duty factor =  $11 * \log(1/0.850) = 0.71$



**2TX (WAX620E)**

Duty cycle of test signal is < 98%, duty factor is required.

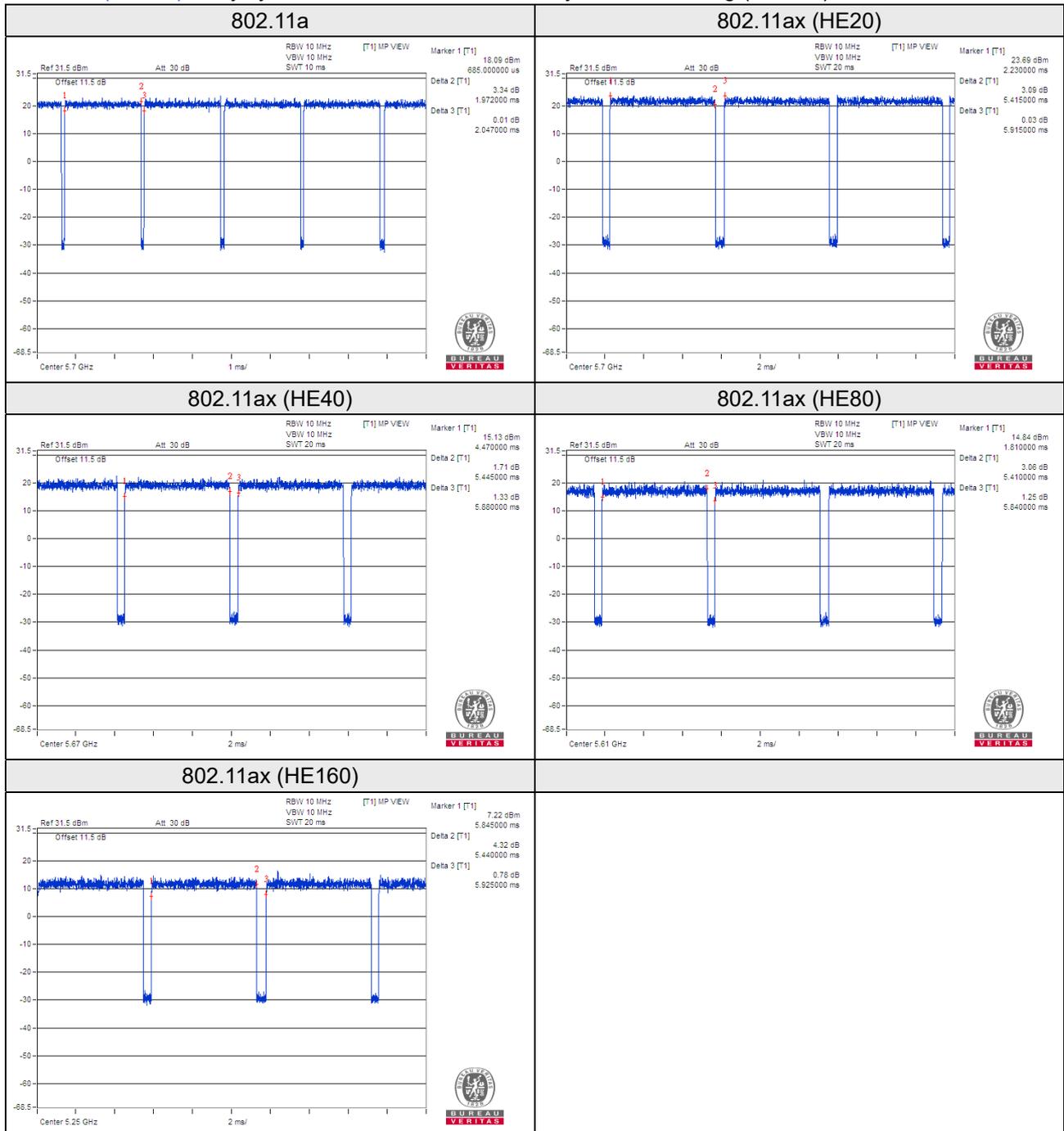
**802.11a:** Duty cycle = 1.972/2.047 = 0.963, Duty factor = 10 \* log (1/0.963) = 0.16

**802.11ax (HE20):** Duty cycle = 5.415/5.915 = 0.915, Duty factor = 10 \* log (1/0.915) = 0.38

**802.11ax (HE40):** Duty cycle = 5.445/5.880 = 0.926, Duty factor = 10 \* log (1/0.926) = 0.33

**802.11ax (HE80):** Duty cycle = 5.410/5.840 = 0.926, Duty factor = 10 \* log (1/0.926) = 0.33

**802.11ax (HE160):** Duty cycle = 5.440/5.925 = 0.918, Duty factor = 11 \* log (1/0.918) = 0.37



### 3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

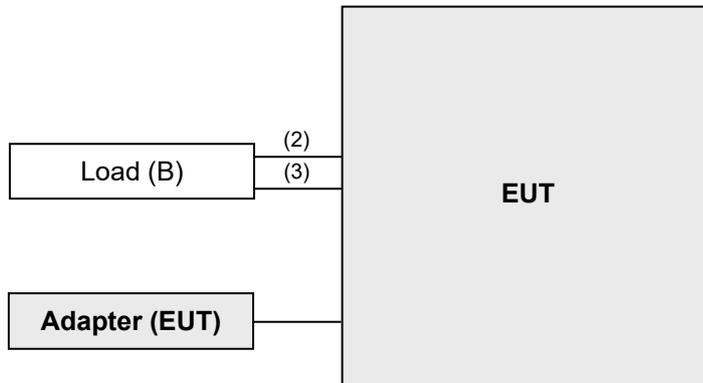
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5430	2RL3YW1	FCC DoC Approved	-
B.	Load	NA	NA	NA	FCC DoC Approved	-
C.	POE	Fujjitsu Limited	SJMPWJ1	NA	NA	Provided by manufacturer

Note: All power cords of the above support units are non-shielded (1.8m).

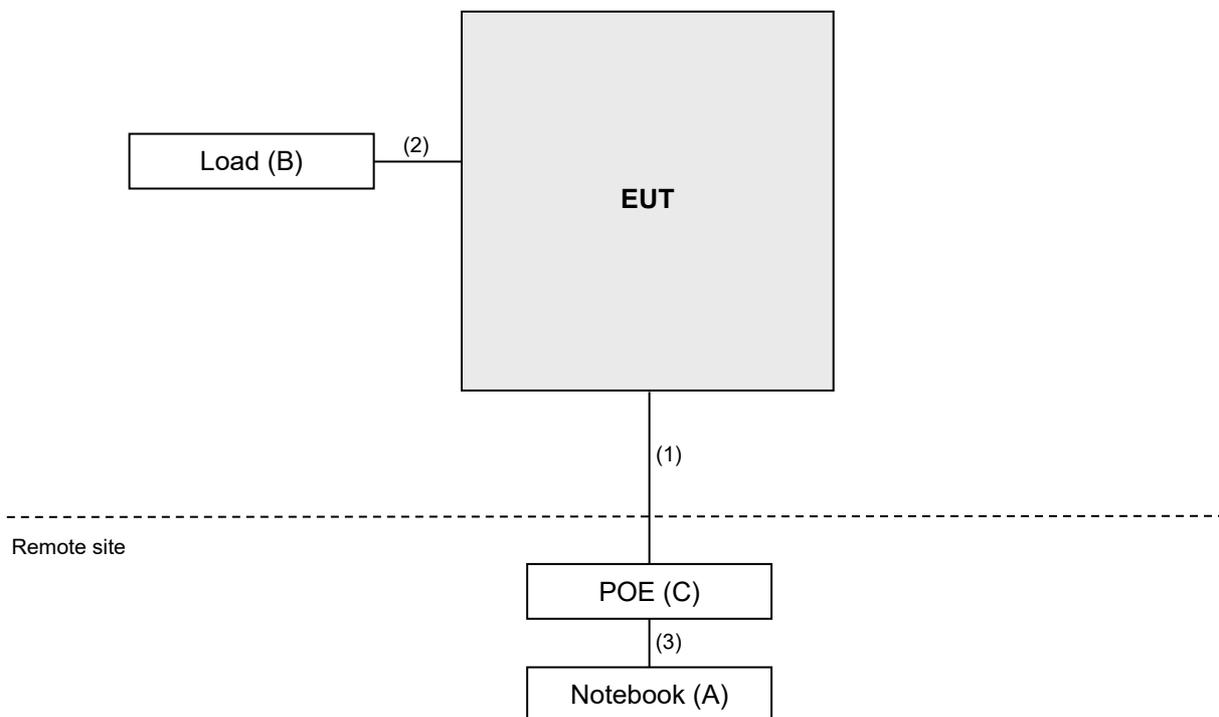
ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	LAN Cable	1	6	N	0	RJ45, Cat5e
2.	LAN Cable	1	1.5	N	0	RJ45, Cat5e
3.	LAN Cable	1	1.5	N	0	RJ45, Cat5e

### 3.4.1 Configuration of System under Test

#### Test Mode A



#### Test Mode B



### **3.5 General Description of Applied Standards and References**

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

**Test standard:**

**FCC Part 15, Subpart E (15.407)**

ANSI C63.10:2013

All test items have been performed and recorded as per the above standards.

**References Test Guidance:**

**KDB 789033 D02 General UNII Test Procedure New Rules v02r01**

**KDB 662911 D01 Multiple Transmitter Output v02r01**

All test items have been performed as a reference to the above KDB test guidance.

## 4 Test Types and Results

### 4.1 Radiated Emission and Bandedge Measurement

#### 4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

Note:

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 1000MHz, 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 20dB 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 3m	
		PK: 74 (dBµV/m)	AV: 54 (dBµV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2(dBµV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	15.407(b)(4)(i)	PK: -27 (dBm/MHz) <sup>*1</sup> PK: 10 (dBm/MHz) <sup>*2</sup> PK: 15.6 (dBm/MHz) <sup>*3</sup> PK: 27 (dBm/MHz) <sup>*4</sup>	PK: 68.2(dBµV/m) <sup>*1</sup> PK: 105.2 (dBµV/m) <sup>*2</sup> PK: 110.8(dBµV/m) <sup>*3</sup> PK: 122.2 (dBµV/m) <sup>*4</sup>
<sup>*1</sup> beyond 75 MHz or more above of the band edge.		<sup>*2</sup> below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.	
<sup>*3</sup> below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.		<sup>*4</sup> from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

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

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

#### 4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Dec. 31, 2020	Dec. 30, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 16, 2020	Sep. 15, 2021
			Sep. 15, 2021	Sep. 14, 2022
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Nov. 03, 2020	Nov. 02, 2021
			Nov. 01, 2021	Oct. 31, 2022
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-1170	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 22, 2020	Nov. 21, 2021
Loop Antenna EMCI	EM-6879	269	Sep. 17, 2020	Sep. 16, 2021
			Sep. 16, 2021	Sep. 15, 2022
Preamplifier Agilent (Below 1GHz)	8447D	2944A10631	Jun. 08, 2020	Jun. 07, 2021
			Jun. 05, 2021	Jun. 04, 2022
Preamplifier KEYSIGHT (Above 1GHz)	83017A	MY53270295	Jun. 08, 2020	Jun. 07, 2021
			Jun. 05, 2021	Jun. 04, 2022
RF Coaxial Cable WOKEN With 5dB PAD	8D-FB	Cable-CH4-01	Aug. 16, 2020	Aug. 15, 2021
			Jul. 24, 2021	Jul. 23, 2022
RF Coaxial Cable EMCI	EMC102-KM-KM-3000	150929	Aug. 16, 2020	Aug. 15, 2021
			Jul. 24, 2021	Jul. 23, 2022
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	Aug. 16, 2020	Aug. 15, 2021
			Jul. 24, 2021	Jul. 23, 2022
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MY 13380+295012/04	Jun. 08, 2020	Jun. 07, 2021
			Jun. 05, 2021	Jun. 04, 2022
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03 (250724)	Jun. 08, 2020	Jun. 07, 2021
			Jun. 05, 2021	Jun. 04, 2022
Software BV ADT	ADT_Radiated_V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021703	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA
Peak Power Analyzer KEYSIGHT	8990B	MY51000485	Jan. 19, 2021	Jan. 18, 2022
Wideband Power Sensor KEYSIGHT	N1923A	MY58020002	Jan. 11, 2021	Jan. 10, 2022
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980175	Sep. 04, 2020	Sep. 03, 2021
			Sep. 04, 2021	Sep. 03, 2022

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.  
2. The test was performed in HwaYa Chamber 4.

### 4.1.3 Test Procedures

#### For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. 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.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

#### For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) 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.
- f. The test-receiver system was set to peak and average detect 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.

Note:

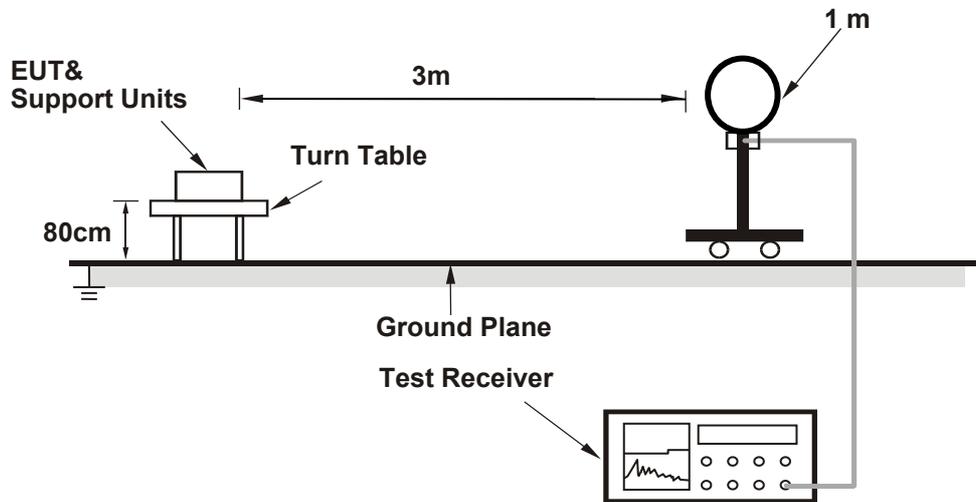
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98%) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.  
**4TX (WAX630E)**  
 (802.11a: RBW = 1MHz, VBW = 1kHz; 802.11ax (HE20): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE40): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE80): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE160): RBW = 1MHz, VBW = 1kHz)  
**2TX (WAX620E)**  
 (802.11a: RBW = 1MHz, VBW = 1kHz; 802.11ax (HE20): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE40): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE80): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE160): RBW = 1MHz, VBW = 1kHz)
4. All modes of operation were investigated and the worst-case emissions are reported.

**4.1.4 Deviation from Test Standard**

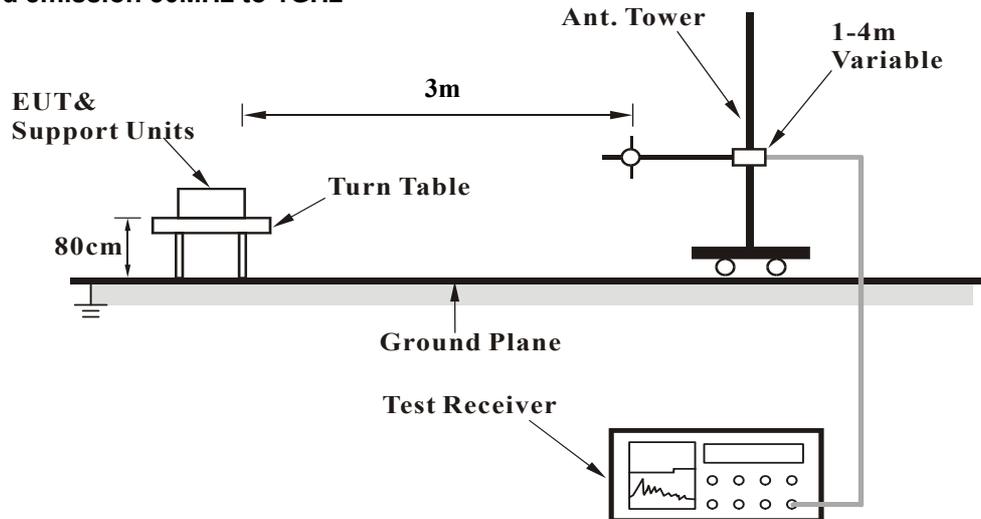
No deviation.

**4.1.5 Test Setup**

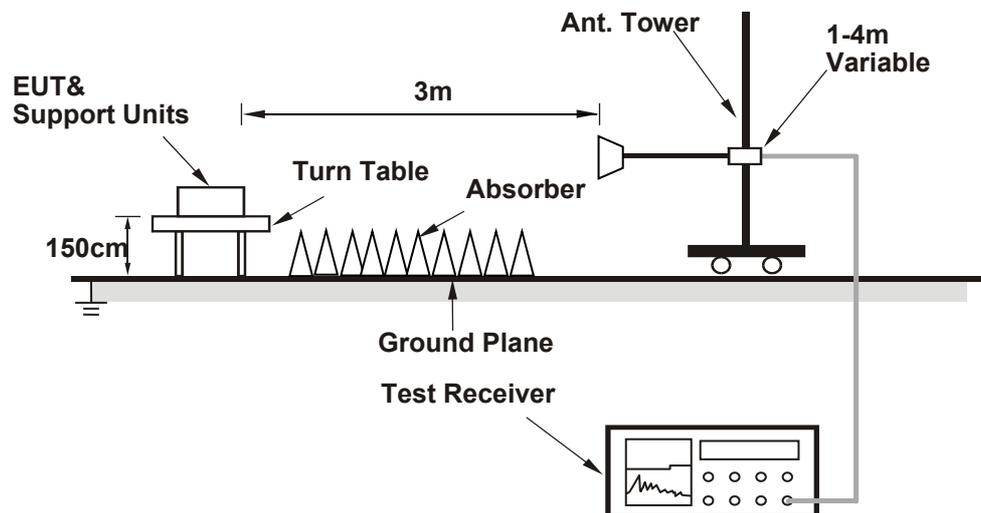
**For Radiated emission below 30MHz**



### For Radiated emission 30MHz to 1GHz



### For Radiated emission above 1GHz



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

#### 4.1.6 EUT Operating Conditions

- Placed the EUT on the testing table.
- Prepared a notebook to act as a communication partner and placed it outside of testing area.
- The communication partner connected with EUT via a RJ45 cable and ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- The communication partner sent data to EUT by command.

#### 4.1.7 Test Results

Above 1GHz data:

4TX (WAX630E)

RF Mode	TX 802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	65.9 PK	74.0	-8.1	1.00 H	338	52.9	13.0
2	5150.00	53.2 AV	54.0	-0.8	1.00 H	338	40.2	13.0
3	*5180.00	115.7 PK			1.00 H	338	73.2	42.5
4	*5180.00	107.3 AV			1.00 H	338	64.8	42.5
5	#10360.00	62.5 PK	68.2	-5.7	1.52 H	312	40.0	22.5
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	62.9 PK	74.0	-11.1	1.47 V	9	49.9	13.0
2	5150.00	51.0 AV	54.0	-3.0	1.47 V	9	38.0	13.0
3	*5180.00	115.3 PK			1.47 V	9	72.8	42.5
4	*5180.00	105.8 AV			1.47 V	9	63.3	42.5
5	#10360.00	61.4 PK	68.2	-6.8	2.64 V	152	38.9	22.5

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	67.4 PK	74.0	-6.6	1.50 H	359	54.4	13.0
2	5150.00	53.7 AV	54.0	-0.3	1.50 H	359	40.7	13.0
3	*5200.00	120.4 PK			1.50 H	359	78.0	42.4
4	*5200.00	111.4 AV			1.50 H	359	69.0	42.4
5	#10400.00	63.4 PK	68.2	-4.8	2.03 H	114	40.6	22.8

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	61.6 PK	74.0	-12.4	1.48 V	11	48.6	13.0
2	5150.00	50.4 AV	54.0	-3.6	1.48 V	11	37.4	13.0
3	*5200.00	119.2 PK			1.48 V	11	76.8	42.4
4	*5200.00	110.3 AV			1.48 V	11	67.9	42.4
5	#10400.00	62.0 PK	68.2	-6.2	2.41 V	156	39.2	22.8

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	122.6 PK			1.48 H	358	80.2	42.4
2	*5240.00	113.0 AV			1.48 H	358	70.6	42.4
3	5350.00	60.3 PK	74.0	-13.7	1.48 H	358	47.2	13.1
4	5350.00	48.4 AV	54.0	-5.6	1.48 H	358	35.3	13.1
5	#10480.00	61.0 PK	68.2	-7.2	1.63 H	96	38.2	22.8

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	121.5 PK			1.50 V	10	79.1	42.4
2	*5240.00	112.1 AV			1.50 V	10	69.7	42.4
3	5350.00	59.9 PK	74.0	-14.1	1.50 V	10	46.8	13.1
4	5350.00	48.2 AV	54.0	-5.8	1.50 V	10	35.1	13.1
5	#10480.00	60.7 PK	68.2	-7.5	1.66 V	239	37.9	22.8

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.5 PK	74.0	-13.5	1.00 H	11	47.5	13.0
2	5150.00	48.9 AV	54.0	-5.1	1.00 H	11	35.9	13.0
3	*5260.00	117.0 PK			1.00 H	11	74.5	42.5
4	*5260.00	108.0 AV			1.00 H	11	65.5	42.5
5	#10520.00	61.7 PK	68.2	-6.5	1.56 H	236	38.8	22.9

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.5 PK	74.0	-14.5	1.56 V	23	46.5	13.0
2	5150.00	48.2 AV	54.0	-5.8	1.56 V	23	35.2	13.0
3	*5260.00	116.3 PK			1.56 V	23	73.8	42.5
4	*5260.00	107.0 AV			1.56 V	23	64.5	42.5
5	#10520.00	61.1 PK	68.2	-7.1	2.98 V	177	38.2	22.9

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	115.3 PK			1.00 H	5	72.7	42.6
2	*5300.00	106.8 AV			1.00 H	5	64.2	42.6
3	10600.00	62.7 PK	74.0	-11.3	2.10 H	312	39.5	23.2
4	10600.00	50.9 AV	54.0	-3.1	2.10 H	312	27.7	23.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	114.4 PK			1.52 V	12	71.8	42.6
2	*5300.00	105.7 AV			1.52 V	12	63.1	42.6
3	10600.00	61.4 PK	74.0	-12.6	2.64 V	185	38.2	23.2
4	10600.00	50.5 AV	54.0	-3.5	2.64 V	185	27.3	23.2

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.

RF Mode	TX 802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	114.8 PK			3.25 H	7	72.1	42.7
2	*5320.00	105.4 AV			3.25 H	7	62.7	42.7
3	5350.00	60.2 PK	74.0	-13.8	3.25 H	7	47.1	13.1
4	5350.00	48.2 AV	54.0	-5.8	3.25 H	7	35.1	13.1
5	10640.00	62.5 PK	74.0	-11.5	1.56 H	360	39.1	23.4
6	10640.00	51.4 AV	54.0	-2.6	1.56 H	360	28.0	23.4

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	114.0 PK			1.47 V	8	71.3	42.7
2	*5320.00	104.6 AV			1.47 V	8	61.9	42.7
3	5350.00	59.9 PK	74.0	-14.1	1.47 V	8	46.8	13.1
4	5350.00	48.0 AV	54.0	-6.0	1.47 V	8	34.9	13.1
5	10640.00	61.9 PK	74.0	-12.1	2.29 V	153	38.5	23.4
6	10640.00	50.7 AV	54.0	-3.3	2.29 V	153	27.3	23.4

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.

RF Mode	TX 802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.4 PK	74.0	-14.6	2.23 H	2	45.8	13.6
2	5460.00	45.2 AV	54.0	-8.8	2.23 H	2	31.6	13.6
3	#5470.00	60.9 PK	68.2	-7.3	2.23 H	2	47.3	13.6
4	*5500.00	114.2 PK			2.23 H	2	71.0	43.2
5	*5500.00	105.9 AV			2.23 H	2	62.7	43.2
6	11000.00	62.9 PK	74.0	-11.1	1.63 H	304	38.2	24.7
7	11000.00	52.3 AV	54.0	-1.7	1.63 H	304	27.6	24.7

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.8 PK	74.0	-15.2	1.53 V	46	45.3	13.5
2	5460.00	44.7 AV	54.0	-9.3	1.53 V	46	31.2	13.5
3	#5470.00	60.4 PK	68.2	-7.8	1.53 V	46	46.8	13.6
4	*5500.00	113.6 PK			1.53 V	46	70.4	43.2
5	*5500.00	105.5 AV			1.53 V	46	62.3	43.2
6	11000.00	62.6 PK	74.0	-11.4	2.04 V	91	38.3	24.3
7	11000.00	51.2 AV	54.0	-2.8	2.04 V	91	26.9	24.3

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	116.1 PK			2.96 H	348	73.0	43.1
2	*5580.00	107.3 AV			2.96 H	348	64.2	43.1
3	11160.00	62.9 PK	74.0	-11.1	1.43 H	312	38.2	24.7
4	11160.00	52.3 AV	54.0	-1.7	1.43 H	312	27.6	24.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	115.8 PK			1.50 V	43	72.7	43.1
2	*5580.00	107.0 AV			1.50 V	43	63.9	43.1
3	11160.00	62.3 PK	74.0	-11.7	2.29 V	104	37.6	24.7
4	11160.00	51.9 AV	54.0	-2.1	2.29 V	104	27.2	24.7

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	115.5 PK			2.81 H	354	72.1	43.4
2	*5700.00	107.1 AV			2.81 H	354	63.7	43.4
3	#5725.00	65.1 PK	68.2	-3.1	2.81 H	354	51.3	13.8
4	11400.00	63.1 PK	74.0	-10.9	1.63 H	289	37.8	25.3
5	11400.00	52.6 AV	54.0	-1.4	1.63 H	289	27.3	25.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	115.0 PK			1.55 V	51	71.6	43.4
2	*5700.00	106.6 AV			1.55 V	51	63.2	43.4
3	#5725.00	64.7 PK	68.2	-3.5	1.55 V	51	50.9	13.8
4	11400.00	62.5 PK	74.0	-11.5	2.16 V	77	37.2	25.3
5	11400.00	52.4 AV	54.0	-1.6	2.16 V	77	27.1	25.3

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	114.7 PK			2.83 H	344	71.2	43.5
2	*5720.00	106.6 AV			2.83 H	344	63.1	43.5
3	#5850.00	61.5 PK	68.2	-6.7	2.83 H	344	47.1	14.4
4	11440.00	62.9 PK	74.0	-11.1	1.54 H	310	37.7	25.2
5	11440.00	52.5 AV	54.0	-1.5	1.54 H	310	27.3	25.2

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	114.4 PK			1.56 V	43	70.9	43.5
2	*5720.00	106.3 AV			1.56 V	43	62.8	43.5
3	#5850.00	61.1 PK	68.2	-7.1	1.56 V	43	46.8	14.3
4	11440.00	62.5 PK	74.0	-11.5	2.14 V	106	37.4	25.1
5	11440.00	52.0 AV	54.0	-2.0	2.14 V	106	26.9	25.1

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5616.80	64.6 PK	68.2	-3.6	1.56 H	25	50.9	13.7
2	*5745.00	119.6 PK			1.56 H	25	75.9	43.7
3	*5745.00	110.7 AV			1.56 H	25	67.0	43.7
4	#5932.40	65.6 PK	68.2	-2.6	1.56 H	25	51.1	14.5
5	11490.00	63.5 PK	74.0	-10.5	1.44 H	240	38.4	25.1
<b>6</b>	<b>11490.00</b>	<b>53.9 AV</b>	<b>54.0</b>	<b>-0.1</b>	<b>1.44 H</b>	<b>240</b>	<b>28.8</b>	<b>25.1</b>

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5636.00	61.9 PK	68.2	-6.3	1.69 V	15	48.2	13.7
2	*5745.00	118.3 PK			1.69 V	15	74.6	43.7
3	*5745.00	109.9 AV			1.69 V	15	66.2	43.7
4	#5952.00	64.8 PK	68.2	-3.4	1.69 V	15	50.3	14.5
5	11490.00	63.2 PK	74.0	-10.8	2.44 V	143	38.1	25.1
6	11490.00	52.6 AV	54.0	-1.4	2.44 V	143	27.5	25.1

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5618.00	63.6 PK	68.2	-4.6	1.43 H	27	49.9	13.7
2	*5785.00	119.0 PK			1.43 H	27	75.0	44.0
3	*5785.00	110.7 AV			1.43 H	27	66.7	44.0
4	#5980.80	63.0 PK	68.2	-5.2	1.43 H	27	48.5	14.5
5	11570.00	64.7 PK	74.0	-9.3	1.44 H	239	39.7	25.0
6	11570.00	53.6 AV	54.0	-0.4	1.44 H	239	28.6	25.0

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	#5617.60	62.8 PK	68.2	-5.4	1.52 V	8	49.2	13.6
2	*5785.00	118.2 PK			1.52 V	8	74.2	44.0
3	*5785.00	109.9 AV			1.52 V	8	65.9	44.0
4	#5957.20	63.8 PK	68.2	-4.4	1.52 V	8	49.3	14.5
5	11570.00	63.2 PK	74.0	-10.8	2.33 V	189	38.2	25.0
6	11570.00	52.4 AV	54.0	-1.6	2.33 V	189	27.4	25.0

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5611.20	63.8 PK	68.2	-4.4	1.42 H	25	50.1	13.7
2	*5825.00	118.3 PK			1.42 H	25	74.3	44.0
3	*5825.00	110.1 AV			1.42 H	25	66.1	44.0
4	#5930.00	63.0 PK	68.2	-5.2	1.42 H	25	48.4	14.6
5	11650.00	63.7 PK	74.0	-10.3	3.40 H	240	39.0	24.7
6	11650.00	53.7 AV	54.0	-0.3	3.40 H	240	29.0	24.7

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	#5604.40	63.6 PK	68.2	-4.6	1.49 V	14	50.0	13.6
2	*5825.00	117.4 PK			1.49 V	14	73.4	44.0
3	*5825.00	109.3 AV			1.49 V	14	65.3	44.0
4	#5981.60	63.8 PK	68.2	-4.4	1.49 V	14	49.3	14.5
5	11650.00	63.2 PK	74.0	-10.8	2.31 V	149	38.5	24.7
6	11650.00	52.5 AV	54.0	-1.5	2.31 V	149	27.8	24.7

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	67.8 PK	74.0	-6.2	2.42 H	338	54.8	13.0
2	<b>5150.00</b>	<b>53.9 AV</b>	<b>54.0</b>	<b>-0.1</b>	<b>2.42 H</b>	<b>338</b>	<b>40.9</b>	<b>13.0</b>
3	*5180.00	117.7 PK			2.42 H	338	75.2	42.5
4	*5180.00	97.0 AV			2.42 H	338	54.5	42.5
5	#10360.00	60.6 PK	68.2	-7.6	1.31 H	316	38.1	22.5

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	5146.50	62.0 PK	74.0	-12.0	1.47 V	9	49.0	13.0
2	5146.50	50.4 AV	54.0	-3.6	1.47 V	9	37.4	13.0
3	*5180.00	117.1 PK			1.47 V	9	74.6	42.5
4	*5180.00	96.2 AV			1.47 V	9	53.7	42.5
5	#10360.00	59.7 PK	68.2	-8.5	2.51 V	147	37.2	22.5

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	65.0 PK	74.0	-9.0	1.18 H	358	52.0	13.0
2	5150.00	53.6 AV	54.0	-0.4	1.18 H	358	40.6	13.0
3	*5200.00	121.0 PK			1.18 H	358	78.6	42.4
4	*5200.00	109.5 AV			1.18 H	358	67.1	42.4
5	#10400.00	62.6 PK	68.2	-5.6	1.71 H	92	39.8	22.8

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	5145.60	61.6 PK	74.0	-12.4	1.52 V	10	48.6	13.0
2	5145.60	50.5 AV	54.0	-3.5	1.52 V	10	37.5	13.0
3	*5200.00	120.3 PK			1.52 V	10	77.9	42.4
4	*5200.00	108.4 AV			1.52 V	10	66.0	42.4
5	#10400.00	61.0 PK	68.2	-7.2	2.63 V	154	38.2	22.8

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	122.4 PK			1.41 H	356	80.0	42.4
2	*5240.00	111.3 AV			1.41 H	356	68.9	42.4
3	5350.00	58.4 PK	74.0	-15.6	1.41 H	356	45.3	13.1
4	5350.00	48.4 AV	54.0	-5.6	1.41 H	356	35.3	13.1
5	#10480.00	61.3 PK	68.2	-6.9	1.68 H	162	38.5	22.8

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	121.6 PK			1.49 V	13	79.2	42.4
2	*5240.00	110.5 AV			1.49 V	13	68.1	42.4
3	5350.00	58.0 PK	74.0	-16.0	1.49 V	13	44.9	13.1
4	5350.00	48.2 AV	54.0	-5.8	1.49 V	13	35.1	13.1
5	#10480.00	61.0 PK	68.2	-7.2	2.55 V	173	38.2	22.8

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.9 PK	74.0	-14.1	1.00 H	2	46.9	13.0
2	5150.00	48.5 AV	54.0	-5.5	1.00 H	2	35.5	13.0
3	*5260.00	118.4 PK			1.00 H	2	75.9	42.5
4	*5260.00	106.7 AV			1.00 H	2	64.2	42.5
5	#10520.00	61.3 PK	68.2	-6.9	3.16 H	260	38.4	22.9

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.2 PK	74.0	-14.8	1.55 V	26	46.2	13.0
2	5150.00	48.0 AV	54.0	-6.0	1.55 V	26	35.0	13.0
3	*5260.00	117.3 PK			1.55 V	26	74.8	42.5
4	*5260.00	105.8 AV			1.55 V	26	63.3	42.5
5	#10520.00	60.8 PK	68.2	-7.4	2.63 V	200	37.9	22.9

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	116.5 PK			1.00 H	360	73.9	42.6
2	*5300.00	106.5 AV			1.00 H	360	63.9	42.6
3	10600.00	62.3 PK	74.0	-11.7	2.14 H	156	39.1	23.2
4	10600.00	51.2 AV	54.0	-2.8	2.14 H	156	28.0	23.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	158.4 PK			1.48 V	14	115.8	42.6
2	*5300.00	148.5 AV			1.48 V	14	105.9	42.6
3	10600.00	61.4 PK	74.0	-12.6	2.46 V	186	38.2	23.2
4	10600.00	50.5 AV	54.0	-3.5	2.46 V	186	27.3	23.2

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	116.2 PK			1.00 H	4	73.5	42.7
2	*5320.00	106.4 AV			1.00 H	4	63.7	42.7
3	5350.00	61.4 PK	74.0	-12.6	1.00 H	4	48.3	13.1
4	5350.00	49.8 AV	54.0	-4.2	1.00 H	4	36.7	13.1
5	10640.00	62.6 PK	74.0	-11.4	2.16 H	200	39.2	23.4
6	10640.00	51.6 AV	54.0	-2.4	2.16 H	200	28.2	23.4

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	115.5 PK			1.46 V	19	72.8	42.7
2	*5320.00	105.5 AV			1.46 V	19	62.8	42.7
3	5350.00	61.0 PK	74.0	-13.0	1.46 V	19	47.9	13.1
4	5350.00	48.8 AV	54.0	-5.2	1.46 V	19	35.7	13.1
5	10640.00	61.9 PK	74.0	-12.1	2.69 V	125	38.5	23.4
6	10640.00	51.0 AV	54.0	-3.0	2.69 V	125	27.6	23.4

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.9 PK	74.0	-10.1	2.83 H	356	50.3	13.6
2	5460.00	49.0 AV	54.0	-5.0	2.83 H	356	35.4	13.6
3	#5470.00	65.3 PK	68.2	-2.9	2.83 H	356	51.7	13.6
4	*5500.00	117.0 PK			2.83 H	356	73.8	43.2
5	*5500.00	106.1 AV			2.83 H	356	62.9	43.2
6	11000.00	62.2 PK	74.0	-11.8	1.68 H	273	37.5	24.7
7	11000.00	52.0 AV	54.0	-2.0	1.68 H	273	27.3	24.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.6 PK	74.0	-10.4	1.50 V	45	50.0	13.6
2	5460.00	48.8 AV	54.0	-5.2	1.50 V	45	35.2	13.6
3	#5470.00	64.8 PK	68.2	-3.4	1.50 V	45	51.2	13.6
4	*5500.00	116.6 PK			1.50 V	45	73.4	43.2
5	*5500.00	105.8 AV			1.50 V	45	62.6	43.2
6	11000.00	61.8 PK	74.0	-12.2	2.03 V	99	37.1	24.7
7	11000.00	51.6 AV	54.0	-2.4	2.03 V	99	26.9	24.7

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	117.2 PK			2.80 H	7	74.1	43.1
2	*5580.00	106.9 AV			2.80 H	7	63.8	43.1
3	11160.00	63.0 PK	74.0	-11.0	1.52 H	344	38.3	24.7
4	11160.00	52.6 AV	54.0	-1.4	1.52 H	344	27.9	24.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	116.9 PK			1.54 V	56	73.8	43.1
2	*5580.00	106.5 AV			1.54 V	56	63.4	43.1
3	11160.00	62.4 PK	74.0	-11.6	2.01 V	108	38.0	24.4
4	11160.00	51.9 AV	54.0	-2.1	2.01 V	108	27.5	24.4

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	115.7 PK			2.82 H	354	72.3	43.4
2	*5700.00	106.5 AV			2.82 H	354	63.1	43.4
3	#5725.00	66.8 PK	68.2	-1.4	2.82 H	354	53.0	13.8
4	11400.00	62.9 PK	74.0	-11.1	1.59 H	328	37.6	25.3
5	11400.00	52.4 AV	54.0	-1.6	1.59 H	328	27.1	25.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	115.3 PK			1.61 V	48	71.9	43.4
2	*5700.00	105.9 AV			1.61 V	48	62.5	43.4
3	#5725.00	66.2 PK	68.2	-2.0	1.61 V	48	52.4	13.8
4	11400.00	62.4 PK	74.0	-11.6	1.84 V	115	37.2	25.2
5	11400.00	52.6 AV	54.0	-1.4	1.84 V	115	27.4	25.2

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	118.6 PK			2.83 H	355	75.1	43.5
2	*5720.00	107.9 AV			2.83 H	355	64.4	43.5
3	#5850.00	60.7 PK	68.2	-7.5	2.83 H	355	46.3	14.4
4	11440.00	63.8 PK	74.0	-10.2	1.53 H	299	38.6	25.2
5	11440.00	52.9 AV	54.0	-1.1	1.53 H	299	27.7	25.2

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	118.1 PK			1.51 V	48	74.6	43.5
2	*5720.00	107.4 AV			1.51 V	48	63.9	43.5
3	#5850.00	60.3 PK	68.2	-7.9	1.51 V	48	46.0	14.3
4	11440.00	63.3 PK	74.0	-10.7	2.03 V	114	38.2	25.1
5	11440.00	52.2 AV	54.0	-1.8	2.03 V	114	27.1	25.1

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5630.40	62.1 PK	68.2	-6.1	1.47 H	22	48.4	13.7
2	*5745.00	122.4 PK			1.47 H	22	78.7	43.7
3	*5745.00	110.3 AV			1.47 H	22	66.6	43.7
4	#5951.20	62.8 PK	68.2	-5.4	1.47 H	22	48.2	14.6
5	11490.00	65.1 PK	74.0	-8.9	3.29 H	239	40.0	25.1
6	11490.00	53.8 AV	54.0	-0.2	3.29 H	239	28.7	25.1

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	#5623.20	62.7 PK	68.2	-5.5	1.48 V	12	49.0	13.7
2	*5745.00	121.5 PK			1.48 V	12	77.8	43.7
3	*5745.00	109.8 AV			1.48 V	12	66.1	43.7
4	#5970.80	62.8 PK	68.2	-5.4	1.48 V	12	48.3	14.5
5	11490.00	63.7 PK	74.0	-10.3	2.15 V	109	38.6	25.1
6	11490.00	52.4 AV	54.0	-1.6	2.15 V	109	27.3	25.1

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5600.00	62.9 PK	68.2	-5.3	2.57 H	15	49.2	13.7
2	*5785.00	120.6 PK			2.57 H	15	76.6	44.0
3	*5785.00	109.9 AV			2.57 H	15	65.9	44.0
4	#5946.40	64.4 PK	68.2	-3.8	2.57 H	15	49.8	14.6
5	11570.00	64.9 PK	74.0	-9.1	2.55 H	165	39.9	25.0
6	11570.00	53.7 AV	54.0	-0.3	2.55 H	165	28.7	25.0

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	#5622.80	62.7 PK	68.2	-5.5	1.47 V	16	49.0	13.7
2	*5785.00	119.3 PK			1.47 V	16	75.3	44.0
3	*5785.00	109.8 AV			1.47 V	16	65.8	44.0
4	#5940.00	64.0 PK	68.2	-4.2	1.47 V	16	49.5	14.5
5	11570.00	63.9 PK	74.0	-10.1	2.63 V	152	38.9	25.0
6	11570.00	52.4 AV	54.0	-1.6	2.63 V	152	27.4	25.0

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5623.60	62.2 PK	68.2	-6.0	2.55 H	25	48.4	13.8
2	*5825.00	119.2 PK			2.55 H	25	75.2	44.0
3	*5825.00	109.4 AV			2.55 H	25	65.4	44.0
4	#5951.60	64.3 PK	68.2	-3.9	2.55 H	25	49.7	14.6
5	11650.00	64.8 PK	74.0	-9.2	2.55 H	170	40.1	24.7
6	11650.00	53.8 AV	54.0	-0.2	2.55 H	170	29.1	24.7

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	#5630.40	63.2 PK	68.2	-5.0	1.45 V	11	49.5	13.7
2	*5825.00	118.4 PK			1.45 V	11	74.4	44.0
3	*5825.00	108.6 AV			1.45 V	11	64.6	44.0
4	#5935.20	63.1 PK	68.2	-5.1	1.45 V	11	48.7	14.4
5	11650.00	63.3 PK	74.0	-10.7	2.41 V	163	38.6	24.7
6	11650.00	52.5 AV	54.0	-1.5	2.41 V	163	27.8	24.7

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	65.1 PK	74.0	-8.9	2.42 H	325	52.1	13.0
2	5150.00	53.2 AV	54.0	-0.8	2.42 H	325	40.2	13.0
3	*5190.00	113.2 PK			2.42 H	325	70.7	42.5
4	*5190.00	103.6 AV			2.42 H	325	61.1	42.5
5	#10380.00	60.8 PK	68.2	-7.4	1.31 H	309	38.1	22.7

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	5146.80	62.5 PK	74.0	-11.5	1.55 V	15	49.5	13.0
2	5146.80	51.6 AV	54.0	-2.4	1.55 V	15	38.6	13.0
3	*5190.00	112.3 PK			1.55 V	15	69.8	42.5
4	*5190.00	102.8 AV			1.55 V	15	60.3	42.5
5	#10380.00	59.8 PK	68.2	-8.4	2.36 V	128	37.1	22.7

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5230.00	118.9 PK			1.33 H	359	76.5	42.4
2	*5230.00	109.0 AV			1.33 H	359	66.6	42.4
3	5350.00	64.5 PK	74.0	-9.5	1.33 H	359	51.4	13.1
4	5350.00	53.6 AV	54.0	-0.4	1.33 H	359	40.5	13.1
5	#10460.00	61.6 PK	68.2	-6.6	1.84 H	236	38.7	22.9

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	5148.50	65.3 PK	74.0	-8.7	1.48 V	12	52.3	13.0
2	5148.50	52.1 AV	54.0	-1.9	1.48 V	12	39.1	13.0
3	*5230.00	115.0 PK			1.48 V	12	72.6	42.4
4	*5230.00	104.6 AV			1.48 V	12	62.2	42.4
5	#10460.00	60.4 PK	68.2	-7.8	2.69 V	177	37.5	22.9

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.3 PK	74.0	-14.7	1.05 H	22	46.3	13.0
2	5150.00	48.7 AV	54.0	-5.3	1.05 H	22	35.7	13.0
3	*5270.00	113.7 PK			1.05 H	360	71.2	42.5
4	*5270.00	103.6 AV			1.05 H	360	61.1	42.5
5	#10540.00	61.6 PK	68.2	-6.6	1.55 H	218	38.7	22.9

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.2 PK	74.0	-15.8	1.44 V	13	45.2	13.0
2	5150.00	48.1 AV	54.0	-5.9	1.44 V	13	35.1	13.0
3	*5270.00	113.1 PK			1.44 V	13	70.6	42.5
4	*5270.00	103.0 AV			1.44 V	13	60.5	42.5
5	#10540.00	61.1 PK	68.2	-7.1	2.66 V	198	38.2	22.9

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	112.0 PK			1.05 H	25	69.4	42.6
2	*5310.00	102.5 AV			1.05 H	25	59.9	42.6
3	5352.00	64.7 PK	74.0	-9.3	1.05 H	25	51.5	13.2
4	5352.00	53.3 AV	54.0	-0.7	1.05 H	25	40.1	13.2
5	10620.00	62.7 PK	74.0	-11.3	1.65 H	288	38.8	23.9
6	10620.00	51.5 AV	54.0	-2.5	1.65 H	288	27.6	23.9

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	111.2 PK			1.46 V	10	68.6	42.6
2	*5310.00	101.7 AV			1.46 V	10	59.1	42.6
3	5355.00	63.0 PK	74.0	-11.0	1.46 V	10	49.9	13.1
4	5355.00	52.6 AV	54.0	-1.4	1.46 V	10	39.5	13.1
5	10620.00	61.8 PK	74.0	-12.2	2.22 V	198	38.5	23.3
6	10620.00	50.6 AV	54.0	-3.4	2.22 V	198	27.3	23.3

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.5 PK	74.0	-9.5	2.87 H	349	50.9	13.6
2	5460.00	49.8 AV	54.0	-4.2	2.87 H	349	36.2	13.6
3	#5470.00	67.2 PK	68.2	-1.0	2.87 H	349	53.6	13.6
4	*5510.00	114.2 PK			2.87 H	349	71.0	43.2
5	*5510.00	103.8 AV			2.87 H	349	60.6	43.2
6	11020.00	62.3 PK	74.0	-11.7	1.68 H	332	37.6	24.7
7	11020.00	52.0 AV	54.0	-2.0	1.68 H	332	27.3	24.7

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.7 PK	74.0	-10.3	1.58 V	63	50.2	13.5
2	5460.00	49.3 AV	54.0	-4.7	1.58 V	63	35.8	13.5
3	#5470.00	66.8 PK	68.2	-1.4	1.58 V	63	53.2	13.6
4	*5510.00	113.6 PK			1.58 V	63	70.4	43.2
5	*5510.00	103.4 AV			1.58 V	63	60.2	43.2
6	11020.00	61.4 PK	74.0	-12.6	1.94 V	103	37.1	24.3
7	11020.00	51.1 AV	54.0	-2.9	1.94 V	103	26.8	24.3

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	113.7 PK			2.88 H	351	70.6	43.1
2	*5550.00	103.3 AV			2.88 H	351	60.2	43.1
3	11100.00	62.2 PK	74.0	-11.8	1.63 H	296	37.6	24.6
4	11100.00	51.8 AV	54.0	-2.2	1.63 H	296	27.2	24.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	113.4 PK			1.50 V	42	70.3	43.1
2	*5550.00	102.9 AV			1.50 V	42	59.8	43.1
3	11100.00	61.4 PK	74.0	-12.6	2.03 V	111	37.1	24.3
4	11100.00	51.1 AV	54.0	-2.9	2.03 V	111	26.8	24.3

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	114.7 PK			2.50 H	340	71.4	43.3
2	*5670.00	104.5 AV			2.50 H	340	61.2	43.3
3	#5725.00	64.6 PK	68.2	-3.6	2.50 H	340	50.8	13.8
4	11340.00	63.0 PK	74.0	-11.0	1.46 H	323	38.0	25.0
5	11340.00	52.2 AV	54.0	-1.8	1.46 H	323	27.2	25.0

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	114.4 PK			1.45 V	50	71.1	43.3
2	*5670.00	104.2 AV			1.45 V	50	60.9	43.3
3	#5725.00	64.1 PK	68.2	-4.1	1.45 V	50	50.3	13.8
4	11340.00	62.1 PK	74.0	-11.9	2.26 V	108	37.2	24.9
5	11340.00	51.4 AV	54.0	-2.6	2.26 V	108	26.5	24.9

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5710.00	113.5 PK			2.58 H	340	70.1	43.4
2	*5710.00	104.2 AV			2.58 H	340	60.8	43.4
3	#5850.00	60.9 PK	68.2	-7.3	2.58 H	340	46.5	14.4
4	11420.00	62.9 PK	74.0	-11.1	1.63 H	308	37.6	25.3
5	11420.00	52.4 AV	54.0	-1.6	1.63 H	308	27.1	25.3

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	*5710.00	112.9 PK			1.58 V	44	69.5	43.4
2	*5710.00	103.4 AV			1.58 V	44	60.0	43.4
3	#5850.00	60.4 PK	68.2	-7.8	1.58 V	44	46.1	14.3
4	11420.00	62.2 PK	74.0	-11.8	1.98 V	103	37.0	25.2
5	11420.00	51.7 AV	54.0	-2.3	1.98 V	103	26.5	25.2

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5646.80	65.0 PK	68.2	-3.2	2.35 H	347	51.3	13.7
2	*5755.00	119.4 PK			2.35 H	347	75.6	43.8
3	*5755.00	109.6 AV			2.35 H	347	65.8	43.8
4	#5941.20	62.8 PK	68.2	-5.4	2.35 H	347	48.2	14.6
5	11510.00	64.5 PK	74.0	-9.5	1.47 H	228	39.5	25.0
<b>6</b>	<b>11510.00</b>	<b>53.9 AV</b>	<b>54.0</b>	<b>-0.1</b>	<b>1.47 H</b>	<b>228</b>	<b>28.9</b>	<b>25.0</b>

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	#5624.80	62.9 PK	68.2	-5.3	1.56 V	29	49.2	13.7
2	*5755.00	118.3 PK			1.56 V	29	74.5	43.8
3	*5755.00	108.7 AV			1.56 V	29	64.9	43.8
4	#5979.60	64.8 PK	68.2	-3.4	1.56 V	29	50.3	14.5
5	11510.00	63.9 PK	74.0	-10.1	2.30 V	158	38.9	25.0
6	11510.00	52.9 AV	54.0	-1.1	2.30 V	158	27.9	25.0

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5622.00	62.7 PK	68.2	-5.5	2.34 H	344	48.9	13.8
2	*5795.00	120.4 PK			2.34 H	344	76.4	44.0
3	*5795.00	109.5 AV			2.34 H	344	65.5	44.0
4	#5971.20	63.8 PK	68.2	-4.4	2.34 H	344	49.3	14.5
5	11590.00	63.5 PK	74.0	-10.5	1.55 H	237	38.6	24.9
6	11590.00	53.6 AV	54.0	-0.4	1.55 H	237	28.7	24.9

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	#5635.60	62.9 PK	68.2	-5.3	1.59 V	15	49.2	13.7
2	*5795.00	119.5 PK			1.59 V	15	75.5	44.0
3	*5795.00	108.8 AV			1.59 V	15	64.8	44.0
4	#5948.00	64.2 PK	68.2	-4.0	1.59 V	15	49.7	14.5
5	11590.00	63.1 PK	74.0	-10.9	2.69 V	175	38.2	24.9
6	11590.00	52.8 AV	54.0	-1.2	2.69 V	175	27.9	24.9

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	66.4 PK	74.0	-7.6	2.39 H	326	53.4	13.0
2	<b>5150.00</b>	<b>53.9 AV</b>	<b>54.0</b>	<b>-0.1</b>	<b>2.39 H</b>	<b>326</b>	<b>40.9</b>	<b>13.0</b>
3	*5210.00	110.5 PK			2.39 H	326	68.1	42.4
4	*5210.00	100.1 AV			2.39 H	326	57.7	42.4
5	#10420.00	61.2 PK	68.2	-7.0	1.05 H	113	38.3	22.9

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	5135.70	64.8 PK	74.0	-9.2	1.47 V	9	51.8	13.0
2	5135.70	52.9 AV	54.0	-1.1	1.47 V	9	39.9	13.0
3	*5210.00	109.9 PK			1.47 V	9	67.5	42.4
4	*5210.00	99.3 AV			1.47 V	9	56.9	42.4
5	#10420.00	60.1 PK	68.2	-8.1	2.55 V	189	37.2	22.9

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	108.6 PK			1.07 H	346	66.0	42.6
2	*5290.00	99.5 AV			1.07 H	346	56.9	42.6
3	5362.50	63.2 PK	74.0	-10.8	1.07 H	346	50.1	13.1
4	5362.50	53.6 AV	54.0	-0.4	1.07 H	346	40.5	13.1
5	#10580.00	62.4 PK	68.2	-5.8	1.56 H	296	39.3	23.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	107.9 PK			1.51 V	15	65.3	42.6
2	*5290.00	98.8 AV			1.51 V	15	56.2	42.6
3	5355.00	62.9 PK	74.0	-11.1	1.51 V	15	49.8	13.1
4	5355.00	53.0 AV	54.0	-1.0	1.51 V	15	39.9	13.1
5	#10580.00	61.4 PK	68.2	-6.8	2.36 V	189	38.3	23.1

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	66.4 PK	74.0	-7.6	2.44 H	351	52.8	13.6
2	5460.00	51.8 AV	54.0	-2.2	2.44 H	351	38.2	13.6
3	#5470.00	67.7 PK	68.2	-0.5	2.44 H	351	54.1	13.6
4	*5530.00	109.1 PK			2.44 H	351	66.0	43.1
5	*5530.00	98.8 AV			2.44 H	351	55.7	43.1
6	11060.00	61.9 PK	74.0	-12.1	1.60 H	321	37.3	24.6
7	11060.00	51.6 AV	54.0	-2.4	1.60 H	321	27.0	24.6

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.7 PK	74.0	-10.3	1.51 V	46	50.2	13.5
2	5460.00	50.4 AV	54.0	-3.6	1.51 V	46	36.9	13.5
3	#5470.00	67.1 PK	68.2	-1.1	1.51 V	46	53.5	13.6
4	*5530.00	108.7 PK			1.51 V	46	65.6	43.1
5	*5530.00	98.3 AV			1.51 V	46	55.2	43.1
6	11060.00	61.2 PK	74.0	-12.8	2.06 V	92	36.9	24.3
7	11060.00	50.9 AV	54.0	-3.1	2.06 V	92	26.6	24.3

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	110.5 PK			2.36 H	346	67.3	43.2
2	*5610.00	100.3 AV			2.36 H	346	57.1	43.2
3	#5725.00	61.8 PK	68.2	-6.4	2.36 H	346	48.0	13.8
4	11220.00	62.1 PK	74.0	-11.9	1.57 H	304	37.5	24.6
5	11220.00	51.8 AV	54.0	-2.2	1.57 H	304	27.2	24.6

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	110.0 PK			1.54 V	53	66.8	43.2
2	*5610.00	99.7 AV			1.54 V	53	56.5	43.2
3	#5725.00	61.1 PK	68.2	-7.1	1.54 V	53	47.3	13.8
4	11220.00	61.8 PK	74.0	-12.2	1.86 V	94	37.4	24.4
5	11220.00	51.3 AV	54.0	-2.7	1.86 V	94	26.9	24.4

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5690.00	109.9 PK			2.36 H	356	66.6	43.3
2	*5690.00	101.4 AV			2.36 H	356	58.1	43.3
3	#5850.00	60.9 PK	68.2	-7.3	2.36 H	356	46.5	14.4
4	11380.00	63.7 PK	74.0	-10.3	1.62 H	300	38.5	25.2
5	11380.00	53.0 AV	54.0	-1.0	1.62 H	300	27.8	25.2

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	*5690.00	109.6 PK			1.52 V	40	66.3	43.3
2	*5690.00	101.0 AV			1.52 V	40	57.7	43.3
3	#5850.00	60.3 PK	68.2	-7.9	1.52 V	40	46.0	14.3
4	11380.00	62.7 PK	74.0	-11.3	2.05 V	100	37.6	25.1
5	11380.00	52.2 AV	54.0	-1.8	2.05 V	100	27.1	25.1

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5642.80	68.1 PK	68.2	-0.1	2.61 H	10	54.4	13.7
2	*5775.00	112.5 PK			2.61 H	10	68.7	43.8
3	*5775.00	102.2 AV			2.61 H	10	58.4	43.8
4	#5934.40	63.3 PK	68.2	-4.9	2.61 H	10	48.8	14.5
5	11550.00	62.8 PK	74.0	-11.2	2.55 H	150	37.8	25.0
6	11550.00	51.9 AV	54.0	-2.1	2.55 H	150	26.9	25.0

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	#5648.00	65.7 PK	68.2	-2.5	1.44 V	6	52.1	13.6
2	*5775.00	111.7 PK			1.44 V	6	67.9	43.8
3	*5775.00	101.4 AV			1.44 V	6	57.6	43.8
4	#5946.00	64.3 PK	68.2	-3.9	1.44 V	6	49.8	14.5
5	11550.00	62.2 PK	74.0	-11.8	2.65 V	198	37.2	25.0
6	11550.00	51.5 AV	54.0	-2.5	2.65 V	198	26.5	25.0

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	1.92 H	340	51.2	13.0
2	5150.00	53.7 AV	54.0	-0.3	1.92 H	340	40.7	13.0
3	*5250.00	105.6 PK			1.92 H	340	63.2	42.4
4	*5250.00	95.7 AV			1.92 H	340	53.3	42.4
5	#10500.00	60.7 PK	68.2	-7.5	2.15 H	175	37.8	22.9

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	5134.90	62.5 PK	74.0	-11.5	1.50 V	15	49.5	13.0
2	5134.90	52.8 AV	54.0	-1.2	1.50 V	15	39.8	13.0
3	*5250.00	104.9 PK			1.50 V	15	62.5	42.4
4	*5250.00	95.1 AV			1.50 V	15	52.7	42.4
5	#10500.00	60.8 PK	68.2	-7.4	2.55 V	182	37.9	22.9

Remarks:

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

RF Mode	TX 802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5450.70	63.6 PK	74.0	-10.4	2.76 H	352	50.2	13.4
2	5450.70	53.4 AV	54.0	-0.6	2.76 H	352	40.0	13.4
3	#5470.00	64.5 PK	68.2	-3.7	2.76 H	352	50.9	13.6
4	*5570.00	104.4 PK			2.76 H	352	61.3	43.1
5	*5570.00	95.7 AV			2.76 H	352	52.6	43.1
6	11140.00	62.9 PK	74.0	-11.1	1.65 H	322	38.2	24.7
7	11140.00	52.2 AV	54.0	-1.8	1.65 H	322	27.5	24.7

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.3 PK	74.0	-10.7	1.58 V	53	49.7	13.6
2	5460.00	52.8 AV	54.0	-1.2	1.58 V	53	39.2	13.6
3	#5470.00	64.1 PK	68.2	-4.1	1.58 V	53	50.5	13.6
4	*5570.00	74.3 PK			1.58 V	53	60.7	13.6
5	*5570.00	65.5 AV			1.58 V	53	51.9	13.6
6	11140.00	62.5 PK	74.0	-11.5	1.97 V	103	37.8	24.7
7	11140.00	51.7 AV	54.0	-2.3	1.97 V	103	27.0	24.7

Remarks:

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

2TX (WAX620E)

RF Mode	TX 802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	66.1 PK	74.0	-7.9	1.46 H	9	53.1	13.0
2	5150.00	53.6 AV	54.0	-0.4	1.46 H	9	40.6	13.0
3	*5180.00	115.1 PK			1.46 H	9	72.6	42.5
4	*5180.00	106.6 AV			1.46 H	9	64.1	42.5
5	#10360.00	61.1 PK	68.2	-7.1	1.86 H	171	38.6	22.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.4 PK	74.0	-14.6	3.11 V	292	46.4	13.0
2	5150.00	48.2 AV	54.0	-5.8	3.11 V	292	35.2	13.0
3	*5180.00	108.3 PK			3.11 V	292	65.8	42.5
4	*5180.00	100.2 AV			3.11 V	292	57.7	42.5
5	#10360.00	60.9 PK	68.2	-7.3	1.92 V	165	38.4	22.5

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	65.4 PK	74.0	-8.6	1.49 H	10	52.4	13.0
2	<b>5150.00</b>	<b>53.9 AV</b>	<b>54.0</b>	<b>-0.1</b>	<b>1.49 H</b>	<b>10</b>	<b>40.9</b>	<b>13.0</b>
3	*5200.00	118.4 PK			1.49 H	10	76.0	42.4
4	*5200.00	109.5 AV			1.49 H	10	67.1	42.4
5	5350.00	59.4 PK	74.0	-14.6	1.49 H	10	46.3	13.1
6	5350.00	48.2 AV	54.0	-5.8	1.49 H	10	35.1	13.1
7	#10400.00	60.8 PK	68.2	-7.4	1.84 H	162	38.0	22.8
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	60.3 PK	74.0	-13.7	3.11 V	292	47.3	13.0
2	5150.00	48.9 AV	54.0	-5.1	3.11 V	292	35.9	13.0
3	*5200.00	112.7 PK			3.11 V	292	70.3	42.4
4	*5200.00	103.5 AV			3.11 V	292	61.1	42.4
5	#10400.00	62.6 PK	68.2	-5.6	1.92 V	177	39.8	22.8

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	121.1 PK			1.53 H	11	78.7	42.4
2	*5240.00	112.0 AV			1.53 H	11	69.6	42.4
3	5350.00	59.1 PK	74.0	-14.9	1.53 H	11	46.0	13.1
4	5350.00	48.6 AV	54.0	-5.4	1.53 H	11	35.5	13.1
5	#10480.00	60.2 PK	68.2	-8.0	1.88 H	179	37.4	22.8

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	114.9 PK			3.14 V	279	72.5	42.4
2	*5240.00	105.3 AV			3.14 V	279	62.9	42.4
3	5350.00	58.7 PK	74.0	-15.3	3.14 V	279	45.6	13.1
4	5350.00	47.8 AV	54.0	-6.2	3.14 V	279	34.7	13.1
5	#10480.00	61.7 PK	68.2	-6.5	1.99 V	158	38.9	22.8

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.7 PK	74.0	-13.3	1.23 H	79	47.7	13.0
2	5150.00	47.9 AV	54.0	-6.1	1.23 H	79	34.9	13.0
3	*5260.00	116.6 PK			1.23 H	79	74.1	42.5
4	*5260.00	108.5 AV			1.23 H	79	66.0	42.5
5	#10520.00	59.8 PK	68.2	-8.4	2.28 H	174	36.9	22.9

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.2 PK	74.0	-14.8	3.08 V	297	46.2	13.0
2	5150.00	48.1 AV	54.0	-5.9	3.08 V	297	35.1	13.0
3	*5260.00	111.5 PK			3.08 V	297	69.0	42.5
4	*5260.00	102.2 AV			3.08 V	297	59.7	42.5
5	#10520.00	59.7 PK	68.2	-8.5	1.90 V	287	36.8	22.9

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	116.4 PK			1.23 H	78	73.8	42.6
2	*5300.00	107.9 AV			1.23 H	78	65.3	42.6
3	10600.00	60.0 PK	74.0	-14.0	2.10 H	142	36.8	23.2
4	10600.00	49.9 AV	54.0	-4.1	2.10 H	142	26.7	23.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	110.3 PK			3.08 V	283	67.7	42.6
2	*5300.00	101.8 AV			3.08 V	283	59.2	42.6
3	10600.00	61.4 PK	74.0	-12.6	2.98 V	142	38.2	23.2
4	10600.00	49.7 AV	54.0	-4.3	2.98 V	142	26.5	23.2

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.

RF Mode	TX 802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	115.8 PK			1.19 H	81	73.1	42.7
2	*5320.00	107.2 AV			1.19 H	81	64.5	42.7
3	5350.00	66.9 PK	74.0	-7.1	1.19 H	81	53.8	13.1
4	5350.00	53.7 AV	54.0	-0.3	1.19 H	81	40.6	13.1
5	10640.00	62.3 PK	74.0	-11.7	1.96 H	258	38.9	23.4
6	10640.00	50.7 AV	54.0	-3.3	1.96 H	258	27.3	23.4

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	110.4 PK			3.11 V	293	67.7	42.7
2	*5320.00	100.9 AV			3.11 V	293	58.2	42.7
3	5350.00	63.6 PK	74.0	-10.4	3.11 V	293	50.5	13.1
4	5350.00	51.1 AV	54.0	-2.9	3.11 V	293	38.0	13.1
5	10640.00	62.0 PK	74.0	-12.0	2.25 V	143	38.6	23.4
6	10640.00	50.5 AV	54.0	-3.5	2.25 V	143	27.1	23.4

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.

RF Mode	TX 802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.4 PK	74.0	-14.6	1.27 H	70	45.9	13.5
2	5460.00	48.4 AV	54.0	-5.6	1.27 H	70	34.9	13.5
3	#5467.00	68.0 PK	68.2	-0.2	1.27 H	70	54.4	13.6
4	*5500.00	113.9 PK			1.27 H	70	70.7	43.2
5	*5500.00	105.3 AV			1.27 H	70	62.1	43.2
6	11000.00	61.9 PK	74.0	-12.1	1.92 H	211	37.6	24.3
7	11000.00	51.6 AV	54.0	-2.4	1.92 H	211	27.3	24.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.3 PK	74.0	-15.7	3.92 V	64	44.8	13.5
2	5460.00	48.7 AV	54.0	-5.3	3.92 V	64	35.2	13.5
3	#5470.00	65.8 PK	68.2	-2.4	3.92 V	64	52.2	13.6
4	*5500.00	113.0 PK			3.92 V	64	69.8	43.2
5	*5500.00	103.6 AV			3.92 V	64	60.4	43.2
6	11000.00	61.8 PK	74.0	-12.2	2.64 V	125	37.5	24.3
7	11000.00	51.4 AV	54.0	-2.6	2.64 V	125	27.1	24.3

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	113.5 PK			1.22 H	63	70.4	43.1
2	*5580.00	105.5 AV			1.22 H	63	62.4	43.1
3	11160.00	61.4 PK	74.0	-12.6	1.86 H	200	37.0	24.4
4	11160.00	51.1 AV	54.0	-2.9	1.86 H	200	26.7	24.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	111.3 PK			3.89 V	62	68.2	43.1
2	*5580.00	103.2 AV			3.89 V	62	60.1	43.1
3	11160.00	60.9 PK	74.0	-13.1	2.41 V	146	36.5	24.4
4	11160.00	50.9 AV	54.0	-3.1	2.41 V	146	26.5	24.4

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.

RF Mode	TX 802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	113.9 PK			1.22 H	95	70.5	43.4
2	*5700.00	105.2 AV			1.22 H	95	61.8	43.4
3	#5725.00	67.8 PK	68.2	-0.4	1.22 H	95	54.0	13.8
4	11400.00	62.4 PK	74.0	-11.6	1.86 H	274	37.2	25.2
5	11400.00	52.1 AV	54.0	-1.9	1.86 H	274	26.9	25.2

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	109.3 PK			3.82 V	90	65.9	43.4
2	*5700.00	100.2 AV			3.82 V	90	56.8	43.4
3	#5725.00	65.9 PK	68.2	-2.3	3.82 V	90	52.1	13.8
4	11400.00	62.0 PK	74.0	-12.0	2.43 V	166	36.8	25.2
5	11400.00	51.7 AV	54.0	-2.3	2.43 V	166	26.5	25.2

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	116.7 PK			2.40 H	126	73.2	43.5
2	*5720.00	106.9 AV			2.40 H	126	63.4	43.5
3	#5850.00	61.3 PK	68.2	-6.9	2.40 H	126	47.0	14.3
4	11440.00	62.4 PK	74.0	-11.6	2.53 H	189	37.3	25.1
5	11440.00	52.5 AV	54.0	-1.5	2.53 H	189	27.4	25.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	110.5 PK			3.91 V	169	67.0	43.5
2	*5720.00	101.7 AV			3.91 V	169	58.2	43.5
3	#5850.00	61.0 PK	68.2	-7.2	3.91 V	169	46.7	14.3
4	11440.00	62.5 PK	74.0	-11.5	1.89 V	223	37.4	25.1
5	11440.00	52.3 AV	54.0	-1.7	1.89 V	223	27.2	25.1

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5644.40	63.6 PK	68.2	-4.6	1.16 H	118	49.9	13.7
2	*5745.00	92.0 PK			1.16 H	118	78.0	14.0
3	*5745.00	82.2 AV			1.16 H	118	68.2	14.0
4	#5966.40	63.4 PK	68.2	-4.8	1.16 H	118	48.9	14.5
5	11490.00	63.3 PK	74.0	-10.7	1.63 H	220	38.2	25.1
6	11490.00	52.2 AV	54.0	-1.8	1.63 H	220	27.1	25.1

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	61.2 PK	68.2	-7.0	3.72 V	120	47.6	13.6
2	*5745.00	117.0 PK			3.72 V	120	73.3	43.7
3	*5745.00	106.5 AV			3.72 V	120	62.8	43.7
4	#5968.80	61.9 PK	68.2	-6.3	3.72 V	120	47.4	14.5
5	11490.00	63.2 PK	74.0	-10.8	2.74 V	159	38.1	25.1
6	11490.00	51.9 AV	54.0	-2.1	2.74 V	159	26.8	25.1

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5622.00	63.1 PK	68.2	-5.1	1.19 H	130	49.4	13.7
2	*5785.00	120.3 PK			1.19 H	130	76.3	44.0
3	*5785.00	111.1 AV			1.19 H	130	67.1	44.0
4	#5966.80	63.4 PK	68.2	-4.8	1.19 H	130	48.9	14.5
5	11570.00	63.1 PK	74.0	-10.9	1.58 H	236	38.1	25.0
6	11570.00	52.0 AV	54.0	-2.0	1.58 H	236	27.0	25.0

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5601.60	62.1 PK	68.2	-6.1	3.79 V	125	48.5	13.6
2	*5785.00	115.0 PK			3.79 V	125	71.0	44.0
3	*5785.00	105.5 AV			3.79 V	125	61.5	44.0
4	#5989.60	63.7 PK	68.2	-4.5	3.79 V	125	49.2	14.5
5	11570.00	62.9 PK	74.0	-11.1	2.88 V	142	37.9	25.0
6	11570.00	51.8 AV	54.0	-2.2	2.88 V	142	26.8	25.0

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5602.40	62.0 PK	68.2	-6.2	1.26 H	131	48.4	13.6
2	*5825.00	119.0 PK			1.36 H	131	75.0	44.0
3	*5825.00	108.6 AV			1.36 H	131	64.6	44.0
4	#5977.60	63.6 PK	68.2	-4.6	1.26 H	131	49.1	14.5
5	11650.00	63.3 PK	74.0	-10.7	1.75 H	236	38.6	24.7
6	11650.00	52.0 AV	54.0	-2.0	1.75 H	236	27.3	24.7

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	#5621.20	61.9 PK	68.2	-6.3	3.74 V	121	48.2	13.7
2	*5825.00	113.6 PK			3.74 V	121	69.6	44.0
3	*5825.00	103.3 AV			3.74 V	121	59.3	44.0
4	#5963.20	61.9 PK	68.2	-6.3	3.74 V	121	47.4	14.5
5	11650.00	62.5 PK	74.0	-11.5	2.85 V	143	37.8	24.7
6	11650.00	51.5 AV	54.0	-2.5	2.85 V	143	26.8	24.7

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	64.4 PK	74.0	-9.6	1.47 H	82	51.4	13.0
2	5150.00	53.5 AV	54.0	-0.5	1.47 H	82	40.5	13.0
3	*5180.00	116.9 PK			1.47 H	82	74.4	42.5
4	*5180.00	105.7 AV			1.47 H	82	63.2	42.5
5	#10360.00	59.8 PK	68.2	-8.4	1.84 H	166	37.3	22.5

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	60.3 PK	74.0	-13.7	3.20 V	57	47.3	13.0
2	5150.00	48.6 AV	54.0	-5.4	3.20 V	57	35.6	13.0
3	*5180.00	110.2 PK			3.20 V	57	67.7	42.5
4	*5180.00	100.3 AV			3.20 V	57	57.8	42.5
5	#10360.00	60.4 PK	68.2	-7.8	2.25 V	142	37.9	22.5

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	65.5 PK	74.0	-8.5	1.48 H	359	52.5	13.0
2	5150.00	53.5 AV	54.0	-0.5	1.48 H	359	40.5	13.0
3	*5200.00	118.5 PK			1.49 H	359	76.1	42.4
4	*5200.00	108.5 AV			1.49 H	359	66.1	42.4
5	5350.00	59.3 PK	74.0	-14.7	1.49 H	359	46.2	13.1
6	5350.00	48.0 AV	54.0	-6.0	1.49 H	359	34.9	13.1
7	#10400.00	60.2 PK	68.2	-8.0	1.78 H	163	37.4	22.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.7 PK	74.0	-15.3	3.20 V	65	45.7	13.0
2	5150.00	48.0 AV	54.0	-6.0	3.20 V	65	35.0	13.0
3	*5200.00	113.4 PK			3.20 V	65	71.0	42.4
4	*5200.00	102.9 AV			3.20 V	65	60.5	42.4
5	#10400.00	61.3 PK	68.2	-6.9	2.24 V	187	38.5	22.8

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	122.1 PK			2.34 H	82	79.7	42.4
2	*5240.00	112.8 AV			2.34 H	82	70.4	42.4
3	5350.00	58.9 PK	74.0	-15.1	2.34 H	82	45.8	13.1
4	5350.00	48.7 AV	54.0	-5.3	2.34 H	82	35.6	13.1
5	#10480.00	60.3 PK	68.2	-7.9	1.98 H	200	37.5	22.8

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	116.1 PK			3.20 V	68	73.7	42.4
2	*5240.00	105.5 AV			3.20 V	68	63.1	42.4
3	5350.00	58.7 PK	74.0	-15.3	3.20 V	68	45.6	13.1
4	5350.00	48.0 AV	54.0	-6.0	3.20 V	68	34.9	13.1
5	#10480.00	61.0 PK	68.2	-7.2	1.96 V	210	38.2	22.8

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.3 PK	74.0	-14.7	1.27 H	81	46.3	13.0
2	5150.00	48.2 AV	54.0	-5.8	1.27 H	81	35.2	13.0
3	*5260.00	118.4 PK			1.27 H	81	75.9	42.5
4	*5260.00	108.0 AV			1.27 H	81	65.5	42.5
5	#10520.00	61.8 PK	68.2	-6.4	1.73 H	205	38.9	22.9

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.5 PK	74.0	-14.5	3.08 V	286	46.5	13.0
2	5150.00	48.6 AV	54.0	-5.4	3.08 V	286	35.6	13.0
3	*5260.00	112.3 PK			3.08 V	286	69.8	42.5
4	*5260.00	101.6 AV			3.08 V	286	59.1	42.5
5	#10520.00	59.4 PK	68.2	-8.8	2.29 V	230	36.5	22.9

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	117.0 PK			1.28 H	81	74.4	42.6
2	*5300.00	107.1 AV			1.28 H	81	64.5	42.6
3	10600.00	62.0 PK	74.0	-12.0	2.87 H	146	38.8	23.2
4	10600.00	50.8 AV	54.0	-3.2	2.87 H	146	27.6	23.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	112.2 PK			3.16 V	286	69.6	42.6
2	*5300.00	100.2 AV			3.16 V	286	57.6	42.6
3	10600.00	61.4 PK	74.0	-12.6	1.05 V	241	38.2	23.2
4	10600.00	50.1 AV	54.0	-3.9	1.05 V	241	26.9	23.2

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	118.0 PK			1.19 H	84	75.3	42.7
2	*5320.00	107.4 AV			1.19 H	84	64.7	42.7
3	5350.00	63.7 PK	74.0	-10.3	1.19 H	84	50.6	13.1
4	5350.00	53.8 AV	54.0	-0.2	1.19 H	84	40.7	13.1
5	10640.00	61.0 PK	74.0	-13.0	2.25 H	142	37.6	23.4
6	10640.00	50.9 AV	54.0	-3.1	2.25 H	142	27.5	23.4

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	110.9 PK			3.10 V	296	68.2	42.7
2	*5320.00	100.3 AV			3.10 V	296	57.6	42.7
3	5350.00	61.1 PK	74.0	-12.9	3.10 V	296	48.0	13.1
4	5350.00	48.2 AV	54.0	-5.8	3.10 V	296	35.1	13.1
5	10640.00	60.9 PK	74.0	-13.1	3.41 V	128	37.5	23.4
6	10640.00	50.3 AV	54.0	-3.7	3.41 V	128	26.9	23.4

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.1 PK	74.0	-13.9	1.26 H	90	46.6	13.5
2	5460.00	48.4 AV	54.0	-5.6	1.26 H	90	34.9	13.5
3	#5470.00	68.0 PK	68.2	-0.2	1.26 H	90	54.4	13.6
4	*5500.00	114.0 PK			1.26 H	90	70.8	43.2
5	*5500.00	104.5 AV			1.26 H	90	61.3	43.2
6	11000.00	60.9 PK	74.0	-13.1	1.86 H	214	36.6	24.3
7	11000.00	51.1 AV	54.0	-2.9	1.86 H	214	26.8	24.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.6 PK	74.0	-14.4	3.84 V	121	46.1	13.5
2	5460.00	48.3 AV	54.0	-5.7	3.84 V	121	34.8	13.5
3	#5470.00	63.9 PK	68.2	-4.3	3.84 V	121	50.3	13.6
4	*5500.00	111.7 PK			3.84 V	121	68.5	43.2
5	*5500.00	101.0 AV			3.84 V	121	57.8	43.2
6	11000.00	60.8 PK	74.0	-13.2	2.31 V	182	36.5	24.3
7	11000.00	51.0 AV	54.0	-3.0	2.31 V	182	26.7	24.3

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	116.4 PK			1.09 H	80	73.3	43.1
2	*5580.00	106.4 AV			1.09 H	80	63.3	43.1
3	11160.00	61.8 PK	74.0	-12.2	1.88 H	195	37.4	24.4
4	11160.00	51.7 AV	54.0	-2.3	1.88 H	195	27.3	24.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	114.7 PK			3.88 V	126	71.6	43.1
2	*5580.00	104.3 AV			3.88 V	126	61.2	43.1
3	11160.00	61.2 PK	74.0	-12.8	2.41 V	155	36.8	24.4
4	11160.00	51.1 AV	54.0	-2.9	2.41 V	155	26.7	24.4

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	115.3 PK			1.13 H	110	71.9	43.4
2	*5700.00	104.0 AV			1.13 H	110	60.6	43.4
3	#5725.00	67.8 PK	68.2	-0.4	1.13 H	110	54.0	13.8
4	11400.00	62.1 PK	74.0	-11.9	1.75 H	198	36.9	25.2
5	11400.00	52.0 AV	54.0	-2.0	1.75 H	198	26.8	25.2

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	111.4 PK			3.83 V	129	68.0	43.4
2	*5700.00	99.4 AV			3.83 V	129	56.0	43.4
3	#5725.00	66.0 PK	68.2	-2.2	3.83 V	129	52.2	13.8
4	11400.00	61.8 PK	74.0	-12.2	2.18 V	152	36.6	25.2
5	11400.00	51.9 AV	54.0	-2.1	2.18 V	152	26.7	25.2

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	118.6 PK			2.42 H	124	75.1	43.5
2	*5720.00	107.9 AV			2.42 H	124	64.4	43.5
3	#5850.00	60.9 PK	68.2	-7.3	2.42 H	124	46.6	14.3
4	11440.00	62.4 PK	74.0	-11.6	2.43 H	175	37.3	25.1
5	11440.00	52.2 AV	54.0	-1.8	2.43 H	175	27.1	25.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	112.9 PK			3.92 V	165	69.4	43.5
2	*5720.00	102.2 AV			3.92 V	165	58.7	43.5
3	#5850.00	61.1 PK	68.2	-7.1	3.92 V	165	46.8	14.3
4	11440.00	62.3 PK	74.0	-11.7	1.95 V	184	37.2	25.1
5	11440.00	52.1 AV	54.0	-1.9	1.95 V	184	27.0	25.1

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5630.40	65.1 PK	68.2	-3.1	1.17 H	128	51.4	13.7
2	*5745.00	121.7 PK			1.17 H	128	78.0	43.7
3	*5745.00	111.5 AV			1.17 H	128	67.8	43.7
4	#5980.80	62.8 PK	68.2	-5.4	1.17 H	128	48.3	14.5
5	11490.00	63.5 PK	74.0	-10.5	1.88 H	201	38.4	25.1
6	11490.00	52.1 AV	54.0	-1.9	1.88 H	201	27.0	25.1

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	#5643.60	62.6 PK	68.2	-5.6	3.79 V	119	48.9	13.7
2	*5745.00	116.8 PK			3.79 V	119	73.1	43.7
3	*5745.00	106.0 AV			3.79 V	119	62.3	43.7
4	#5993.60	61.5 PK	68.2	-6.7	3.79 V	119	47.0	14.5
5	11490.00	63.1 PK	74.0	-10.9	2.25 V	147	38.0	25.1
6	11490.00	52.0 AV	54.0	-2.0	2.25 V	147	26.9	25.1

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5603.60	62.9 PK	68.2	-5.3	1.16 H	118	49.3	13.6
2	*5785.00	120.9 PK			1.16 H	118	76.9	44.0
3	*5785.00	110.8 AV			1.16 H	118	66.8	44.0
4	#5944.40	63.3 PK	68.2	-4.9	1.16 H	118	48.8	14.5
5	11570.00	63.2 PK	74.0	-10.8	1.58 H	214	38.2	25.0
6	11570.00	52.3 AV	54.0	-1.7	1.58 H	214	27.3	25.0

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	#5627.20	61.8 PK	68.2	-6.4	3.77 V	124	48.1	13.7
2	*5785.00	115.4 PK			3.77 V	124	71.4	44.0
3	*5785.00	105.5 AV			3.77 V	124	61.5	44.0
4	#5976.40	62.4 PK	68.2	-5.8	3.77 V	124	47.9	14.5
5	11570.00	63.2 PK	74.0	-10.8	2.88 V	142	38.2	25.0
6	11570.00	51.7 AV	54.0	-2.3	2.88 V	142	26.7	25.0

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5629.60	62.9 PK	68.2	-5.3	1.28 H	117	49.2	13.7
2	*5825.00	119.9 PK			1.28 H	117	75.9	44.0
3	*5825.00	108.5 AV			1.28 H	117	64.5	44.0
4	#5952.00	63.7 PK	68.2	-4.5	1.28 H	117	49.2	14.5
5	11650.00	63.0 PK	74.0	-11.0	1.57 H	236	38.3	24.7
6	11650.00	51.9 AV	54.0	-2.1	1.57 H	236	27.2	24.7

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	#5620.40	60.6 PK	68.2	-7.6	3.80 V	133	47.0	13.6
2	*5825.00	113.2 PK			3.80 V	133	69.2	44.0
3	*5825.00	103.3 AV			3.80 V	133	59.3	44.0
4	#5957.20	62.5 PK	68.2	-5.7	3.80 V	133	48.0	14.5
5	11650.00	62.4 PK	74.0	-11.6	2.53 V	166	37.7	24.7
6	11650.00	51.2 AV	54.0	-2.8	2.53 V	166	26.5	24.7

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5144.80	64.0 PK	74.0	-10.0	1.85 H	352	51.0	13.0
2	5144.80	53.5 AV	54.0	-0.5	1.85 H	352	40.5	13.0
3	*5190.00	112.2 PK			1.85 H	352	69.7	42.5
4	*5190.00	100.8 AV			1.85 H	352	58.3	42.5
5	#10380.00	59.7 PK	68.2	-8.5	1.76 H	152	37.0	22.7

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.5 PK	74.0	-14.5	3.20 V	66	46.5	13.0
2	5150.00	48.6 AV	54.0	-5.4	3.20 V	66	35.6	13.0
3	*5190.00	104.1 PK			3.20 V	66	61.6	42.5
4	*5190.00	94.8 AV			3.20 V	66	52.3	42.5
5	#10380.00	60.6 PK	68.2	-7.6	1.68 V	247	37.9	22.7

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	64.0 PK	74.0	-10.0	1.83 H	357	51.0	13.0
2	5150.00	53.7 AV	54.0	-0.3	1.83 H	357	40.7	13.0
3	*5230.00	114.7 PK			1.83 H	357	72.3	42.4
4	*5230.00	104.9 AV			1.83 H	357	62.5	42.4
5	5350.00	59.6 PK	74.0	-14.4	1.83 H	357	46.5	13.1
6	5350.00	48.4 AV	54.0	-5.6	1.83 H	357	35.3	13.1
7	#10460.00	60.4 PK	68.2	-7.8	1.82 H	154	37.5	22.9

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	*5230.00	110.2 PK			3.20 V	67	67.8	42.4
2	*5230.00	99.7 AV			3.20 V	67	57.3	42.4
3	5350.00	58.6 PK	74.0	-15.4	3.20 V	67	45.5	13.1
4	5350.00	47.9 AV	54.0	-6.1	3.20 V	67	34.8	13.1
5	#10460.00	61.1 PK	68.2	-7.1	1.63 V	225	38.2	22.9

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5270.00	114.6 PK			1.20 H	78	72.1	42.5
2	*5270.00	105.0 AV			1.20 H	78	62.5	42.5
3	5350.00	58.8 PK	74.0	-15.2	1.20 H	78	45.7	13.1
4	5350.00	48.3 AV	54.0	-5.7	1.20 H	78	35.2	13.1
5	#10540.00	61.5 PK	68.2	-6.7	2.41 H	115	38.6	22.9

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.8 PK	74.0	-15.2	3.13 V	299	45.8	13.0
2	5150.00	48.0 AV	54.0	-6.0	3.13 V	299	35.0	13.0
3	*5270.00	107.4 PK			3.13 V	299	64.9	42.5
4	*5270.00	98.1 AV			3.13 V	299	55.6	42.5
5	#10540.00	60.5 PK	68.2	-7.7	2.33 V	165	37.6	22.9

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	113.0 PK			1.11 H	81	70.4	42.6
2	*5310.00	102.3 AV			1.11 H	81	59.7	42.6
3	5352.00	64.5 PK	74.0	-9.5	1.11 H	81	51.4	13.1
4	5352.00	53.7 AV	54.0	-0.3	1.11 H	81	40.6	13.1
5	10620.00	61.2 PK	74.0	-12.8	2.41 H	158	37.9	23.3
6	10620.00	50.1 AV	54.0	-3.9	2.41 H	158	26.8	23.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	107.8 PK			3.15 V	301	65.2	42.6
2	*5310.00	96.3 AV			3.15 V	301	53.7	42.6
3	5352.00	60.4 PK	74.0	-13.6	3.15 V	301	47.3	13.1
4	5352.00	48.8 AV	54.0	-5.2	3.15 V	301	35.7	13.1
5	10620.00	61.8 PK	74.0	-12.2	2.25 V	142	38.5	23.3
6	10620.00	50.4 AV	54.0	-3.6	2.25 V	142	27.1	23.3

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.0 PK	74.0	-14.0	1.00 H	88	46.5	13.5
2	5460.00	50.5 AV	54.0	-3.5	1.00 H	88	37.0	13.5
<b>3</b>	<b>#5470.00</b>	<b>68.1 PK</b>	<b>68.2</b>	<b>-0.1</b>	<b>1.00 H</b>	<b>88</b>	<b>54.5</b>	<b>13.6</b>
4	*5510.00	111.7 PK			1.00 H	88	68.5	43.2
5	*5510.00	100.5 AV			1.00 H	88	57.3	43.2
6	11020.00	61.0 PK	74.0	-13.0	1.89 H	203	36.7	24.3
7	11020.00	50.8 AV	54.0	-3.2	1.89 H	203	26.5	24.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.7 PK	74.0	-14.3	3.83 V	120	46.2	13.5
2	5460.00	50.2 AV	54.0	-3.8	3.83 V	120	36.7	13.5
3	#5470.00	64.8 PK	68.2	-3.4	3.83 V	120	51.2	13.6
4	*5510.00	108.7 PK			3.83 V	120	65.5	43.2
5	*5510.00	97.4 AV			3.83 V	120	54.2	43.2
6	11020.00	60.7 PK	74.0	-13.3	2.36 V	155	36.4	24.3
7	11020.00	50.6 AV	54.0	-3.4	2.36 V	155	26.3	24.3

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	112.4 PK			1.00 H	77	69.3	43.1
2	*5550.00	103.1 AV			1.00 H	77	60.0	43.1
3	11100.00	61.6 PK	74.0	-12.4	1.85 H	210	37.3	24.3
4	11100.00	51.2 AV	54.0	-2.8	1.85 H	210	26.9	24.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	110.1 PK			3.81 V	120	67.0	43.1
2	*5550.00	100.3 AV			3.81 V	120	57.2	43.1
3	11100.00	61.1 PK	74.0	-12.9	2.04 V	186	36.8	24.3
4	11100.00	51.0 AV	54.0	-3.0	2.04 V	186	26.7	24.3

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	112.6 PK			1.00 H	123	69.3	43.3
2	*5670.00	102.0 AV			1.00 H	123	58.7	43.3
<b>3</b>	<b>#5725.00</b>	<b>68.1 PK</b>	<b>68.2</b>	<b>-0.1</b>	<b>1.00 H</b>	<b>123</b>	<b>54.3</b>	<b>13.8</b>
4	11340.00	61.1 PK	74.0	-12.9	1.89 H	202	36.2	24.9
5	11340.00	51.7 AV	54.0	-2.3	1.89 H	202	26.8	24.9

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	107.7 PK			3.87 V	81	64.4	43.3
2	*5670.00	97.6 AV			3.87 V	81	54.3	43.3
3	#5725.00	64.6 PK	68.2	-3.6	3.87 V	81	50.8	13.8
4	11340.00	61.0 PK	74.0	-13.0	2.88 V	174	36.1	24.9
5	11340.00	51.4 AV	54.0	-2.6	2.88 V	174	26.5	24.9

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5710.00	113.5 PK			2.39 H	127	70.1	43.4
2	*5710.00	104.8 AV			2.39 H	127	61.4	43.4
3	#5850.00	61.8 PK	68.2	-6.4	2.39 H	127	47.5	14.3
4	11420.00	62.1 PK	74.0	-11.9	2.54 H	182	36.9	25.2
5	11420.00	52.0 AV	54.0	-2.0	2.54 H	182	26.8	25.2

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	*5710.00	108.9 PK			3.94 V	166	65.5	43.4
2	*5710.00	99.2 AV			3.94 V	166	55.8	43.4
3	#5850.00	60.8 PK	68.2	-7.4	3.94 V	166	46.5	14.3
4	11420.00	62.7 PK	74.0	-11.3	2.00 V	223	37.5	25.2
5	11420.00	52.3 AV	54.0	-1.7	2.00 V	223	27.1	25.2

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5643.60	67.8 PK	68.2	-0.4	1.15 H	127	54.1	13.7
2	*5755.00	119.7 PK			1.15 H	127	75.9	43.8
3	*5755.00	107.9 AV			1.15 H	127	64.1	43.8
4	#5934.00	62.5 PK	68.2	-5.7	1.15 H	127	48.1	14.4
5	11510.00	63.6 PK	74.0	-10.4	1.87 H	204	38.6	25.0
6	11510.00	52.3 AV	54.0	-1.7	1.87 H	204	27.3	25.0

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5633.20	63.8 PK	68.2	-4.4	3.72 V	125	50.1	13.7
2	*5755.00	112.8 PK			3.72 V	125	69.0	43.8
3	*5755.00	102.5 AV			3.72 V	125	58.7	43.8
4	#5935.20	61.8 PK	68.2	-6.4	3.72 V	125	47.4	14.4
5	11510.00	63.0 PK	74.0	-11.0	2.68 V	144	38.0	25.0
6	11510.00	51.7 AV	54.0	-2.3	2.68 V	144	26.7	25.0

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5633.60	66.8 PK	68.2	-1.4	1.18 H	132	53.1	13.7
2	*5795.00	116.5 PK			1.18 H	132	72.5	44.0
3	*5795.00	106.7 AV			1.18 H	132	62.7	44.0
4	#5974.80	63.4 PK	68.2	-4.8	1.18 H	132	48.9	14.5
5	11590.00	63.4 PK	74.0	-10.6	1.95 H	217	38.5	24.9
6	11590.00	52.0 AV	54.0	-2.0	1.95 H	217	27.1	24.9

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5641.20	62.4 PK	68.2	-5.8	3.69 V	118	48.7	13.7
2	*5795.00	112.6 PK			3.69 V	118	68.6	44.0
3	*5795.00	101.4 AV			3.69 V	118	57.4	44.0
4	#5952.00	62.1 PK	68.2	-6.1	3.69 V	118	47.6	14.5
5	11590.00	63.4 PK	74.0	-10.6	2.56 V	147	38.5	24.9
6	11590.00	51.6 AV	54.0	-2.4	2.56 V	147	26.7	24.9

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5144.50	63.4 PK	74.0	-10.6	1.77 H	348	50.4	13.0
2	5144.50	53.8 AV	54.0	-0.2	1.77 H	348	40.8	13.0
3	*5210.00	105.8 PK			1.77 H	348	63.4	42.4
4	*5210.00	96.4 AV			1.77 H	348	54.0	42.4
5	#10420.00	59.6 PK	68.2	-8.6	1.94 H	211	36.7	22.9

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	60.5 PK	74.0	-13.5	3.20 V	67	47.5	13.0
2	5150.00	49.2 AV	54.0	-4.8	3.20 V	67	36.2	13.0
3	*5210.00	103.0 PK			3.20 V	67	60.6	42.4
4	*5210.00	91.1 AV			3.20 V	67	48.7	42.4
5	#10420.00	59.7 PK	68.2	-8.5	1.52 V	263	36.8	22.9

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.8 PK	74.0	-14.2	1.11 H	84	46.8	13.0
2	5150.00	48.3 AV	54.0	-5.7	1.11 H	84	35.3	13.0
3	*5290.00	108.9 PK			1.11 H	84	66.3	42.6
4	*5290.00	98.6 AV			1.11 H	84	56.0	42.6
5	5351.20	63.6 PK	74.0	-10.4	1.11 H	84	50.5	13.1
6	5351.20	53.7 AV	54.0	-0.3	1.11 H	84	40.6	13.1
7	#10580.00	60.0 PK	68.2	-8.2	1.98 H	253	36.9	23.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.1 PK	74.0	-14.9	3.10 V	299	46.1	13.0
2	5150.00	48.1 AV	54.0	-5.9	3.10 V	299	35.1	13.0
3	*5290.00	101.4 PK			3.10 V	299	58.8	42.6
4	*5290.00	91.8 AV			3.10 V	299	49.2	42.6
5	5351.20	60.0 PK	74.0	-14.0	3.10 V	299	46.9	13.1
6	5351.20	49.1 AV	54.0	-4.9	3.10 V	299	36.0	13.1
7	#10580.00	59.7 PK	68.2	-8.5	1.04 V	129	36.6	23.1

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.0 PK	74.0	-10.0	1.00 H	91	50.5	13.5
2	5460.00	53.6 AV	54.0	-0.4	1.00 H	91	40.1	13.5
<b>3</b>	<b>#5466.00</b>	<b>68.1 PK</b>	<b>68.2</b>	<b>-0.1</b>	<b>1.00 H</b>	<b>91</b>	<b>54.6</b>	<b>13.5</b>
4	*5530.00	108.1 PK			1.00 H	91	65.0	43.1
5	*5530.00	98.0 AV			1.00 H	91	54.9	43.1
6	11060.00	61.4 PK	74.0	-12.6	1.99 H	213	37.1	24.3
7	11060.00	51.5 AV	54.0	-2.5	1.99 H	213	27.2	24.3

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.0 PK	74.0	-11.0	3.87 V	104	49.5	13.5
2	5460.00	51.6 AV	54.0	-2.4	3.87 V	104	38.1	13.5
3	#5470.00	65.2 PK	68.2	-3.0	3.87 V	104	51.6	13.6
4	*5530.00	102.1 PK			3.87 V	104	59.0	43.1
5	*5530.00	92.3 AV			3.87 V	104	49.2	43.1
6	11060.00	60.8 PK	74.0	-13.2	2.21 V	145	36.5	24.3
7	11060.00	52.1 AV	54.0	-1.9	2.21 V	145	27.8	24.3

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	109.5 PK			1.00 H	94	66.3	43.2
2	*5610.00	99.0 AV			1.00 H	94	55.8	43.2
3	#5725.00	62.3 PK	68.2	-5.9	1.00 H	94	48.5	13.8
4	11220.00	61.9 PK	74.0	-12.1	1.84 H	190	37.5	24.4
5	11220.00	51.6 AV	54.0	-2.4	1.84 H	190	27.2	24.4

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	103.8 PK			3.87 V	124	60.6	43.2
2	*5610.00	94.4 AV			3.87 V	124	51.2	43.2
3	#5725.00	62.1 PK	68.2	-6.1	3.87 V	124	48.3	13.8
4	11220.00	61.6 PK	74.0	-12.4	2.06 V	175	37.2	24.4
5	11220.00	51.2 AV	54.0	-2.8	2.06 V	175	26.8	24.4

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5690.00	112.5 PK			2.49 H	125	69.2	43.3
2	*5690.00	102.2 AV			2.49 H	125	58.9	43.3
3	#5850.00	60.9 PK	68.2	-7.3	2.49 H	125	46.6	14.3
4	11380.00	61.9 PK	74.0	-12.1	2.47 H	147	36.8	25.1
5	11380.00	51.8 AV	54.0	-2.2	2.47 H	147	26.7	25.1

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	*5690.00	104.9 PK			3.97 V	170	61.6	43.3
2	*5690.00	95.1 AV			3.97 V	170	51.8	43.3
3	#5850.00	60.5 PK	68.2	-7.7	3.97 V	170	46.2	14.3
4	11380.00	62.4 PK	74.0	-11.6	2.36 V	184	37.3	25.1
5	11380.00	52.0 AV	54.0	-2.0	2.36 V	184	26.9	25.1

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5644.40	67.9 PK	68.2	-0.3	1.14 H	130	54.2	13.7
2	*5775.00	113.9 PK			1.14 H	130	70.1	43.8
3	*5775.00	102.2 AV			1.14 H	130	58.4	43.8
4	#5927.20	63.6 PK	68.2	-4.6	1.14 H	130	49.2	14.4
5	11550.00	63.6 PK	74.0	-10.4	1.56 H	297	38.6	25.0
6	11550.00	52.0 AV	54.0	-2.0	1.56 H	297	27.0	25.0

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	#5643.20	64.3 PK	68.2	-3.9	3.74 V	118	50.6	13.7
2	*5775.00	107.8 PK			3.74 V	118	64.0	43.8
3	*5775.00	96.7 AV			3.74 V	118	52.9	43.8
4	#5963.20	61.5 PK	68.2	-6.7	3.74 V	118	47.0	14.5
5	11550.00	62.9 PK	74.0	-11.1	2.53 V	152	37.9	25.0
6	11550.00	51.8 AV	54.0	-2.2	2.53 V	152	26.8	25.0

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.
6. " # " : The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5135.00	64.7 PK	74.0	-9.3	1.14 H	78	51.7	13.0
2	5135.00	53.8 AV	54.0	-0.2	1.14 H	78	40.8	13.0
3	*5250.00	104.9 PK			1.14 H	78	62.5	42.4
4	*5250.00	95.0 AV			1.14 H	78	52.6	42.4
5	5350.00	63.1 PK	74.0	-10.9	1.14 H	78	50.0	13.1
6	5350.00	52.9 AV	54.0	-1.1	1.14 H	78	39.8	13.1
7	#10500.00	61.0 PK	68.2	-7.2	2.53 H	106	38.1	22.9
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	5143.00	58.0 PK	74.0	-16.0	3.11 V	298	45.0	13.0
2	5143.00	47.9 AV	54.0	-6.1	3.11 V	298	34.9	13.0
3	*5250.00	99.7 PK			3.11 V	298	57.3	42.4
4	*5250.00	89.2 AV			3.11 V	298	46.8	42.4
5	5353.00	58.4 PK	74.0	-15.6	3.11 V	298	45.3	13.1
6	5353.00	47.8 AV	54.0	-6.2	3.11 V	298	34.7	13.1
7	#10500.00	60.4 PK	68.2	-7.8	2.05 V	169	37.5	22.9

Remarks:

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

RF Mode	TX 802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.9 PK	74.0	-10.1	1.00 H	79	50.4	13.5
2	5460.00	53.6 AV	54.0	-0.4	1.00 H	79	40.1	13.5
3	#5470.00	65.2 PK	68.2	-3.0	1.00 H	79	51.6	13.6
4	*5570.00	104.9 PK			1.00 H	79	61.8	43.1
5	*5570.00	94.9 AV			1.00 H	79	51.8	43.1
6	#5725.00	62.0 PK	68.2	-6.2	1.00 H	79	48.2	13.8
7	11140.00	61.0 PK	74.0	-13.0	1.84 H	192	36.6	24.4
8	11140.00	51.2 AV	54.0	-2.8	1.84 H	192	26.8	24.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	63.2 PK	68.2	-5.0	3.87 V	124	49.6	13.6
2	#5470.00	62.5 PK	68.2	-5.7	3.87 V	124	48.9	13.6
3	#5470.00	50.9 AV	54.0	-3.1	3.87 V	124	37.3	13.6
4	*5570.00	101.1 PK			3.87 V	124	58.0	43.1
5	*5570.00	90.8 AV			3.87 V	124	47.7	43.1
6	#5725.00	60.5 PK	68.2	-7.7	3.87 V	124	46.7	13.8
7	11140.00	60.8 PK	74.0	-13.2	2.36 V	114	36.4	24.4
8	11140.00	50.9 AV	54.0	-3.1	2.36 V	114	26.5	24.4

Remarks:

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

Below 1GHz Worst-Case Data:

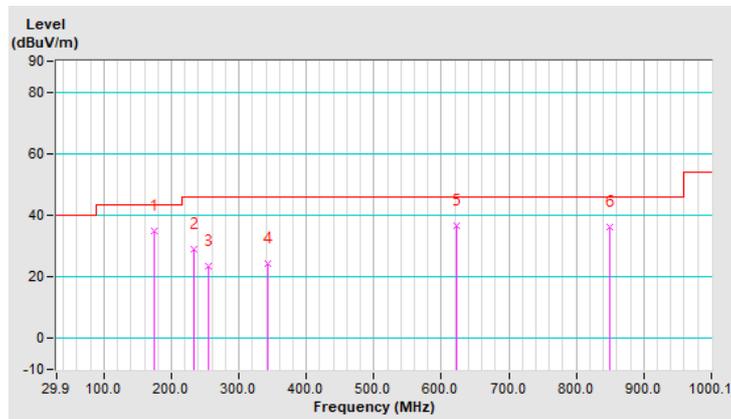
4TX (WAX630E)

RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	A		

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	175.43	35.0 QP	43.5	-8.5	1.99 H	311	44.9	-9.9
2	233.64	29.0 QP	46.0	-17.0	1.49 H	162	39.9	-10.9
3	254.99	23.6 QP	46.0	-22.4	1.99 H	54	33.0	-9.4
4	343.27	24.5 QP	46.0	-21.5	1.00 H	28	31.4	-6.9
5	622.69	36.5 QP	46.0	-9.5	1.49 H	19	38.0	-1.5
6	848.75	36.0 QP	46.0	-10.0	1.49 H	180	32.7	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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

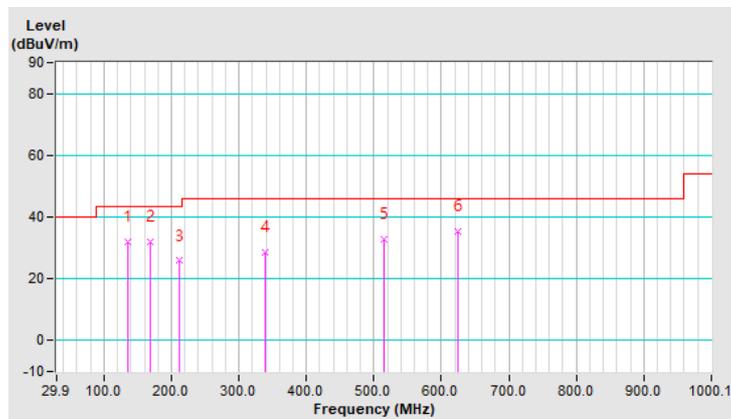


RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	A		

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	135.65	32.1 QP	43.5	-11.4	1.00 V	100	41.8	-9.7
2	169.61	32.1 QP	43.5	-11.4	1.50 V	333	41.4	-9.3
3	211.33	25.8 QP	43.5	-17.7	1.50 V	333	37.5	-11.7
4	339.39	28.5 QP	46.0	-17.5	1.50 V	300	35.5	-7.0
5	515.00	32.9 QP	46.0	-13.1	1.00 V	22	36.7	-3.8
6	624.63	35.4 QP	46.0	-10.6	2.00 V	8	36.9	-1.5

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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

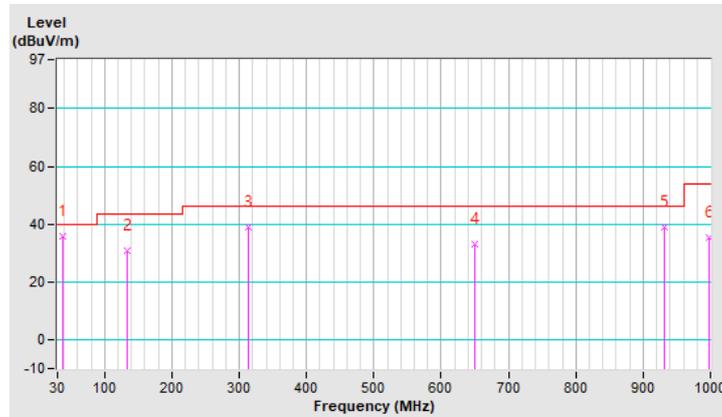


RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	B		

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	38.73	35.9 QP	40.0	-4.1	1.00 H	145	45.5	-9.6
2	132.82	30.6 QP	43.5	-12.9	2.00 H	276	40.4	-9.8
3	314.21	39.1 QP	46.0	-6.9	1.00 H	154	46.4	-7.3
4	650.80	32.9 QP	46.0	-13.1	1.00 H	198	33.7	-0.8
5	932.10	38.8 QP	46.0	-7.2	1.00 H	292	33.6	5.2
6	997.09	35.5 QP	54.0	-18.5	1.00 H	163	28.9	6.6

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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

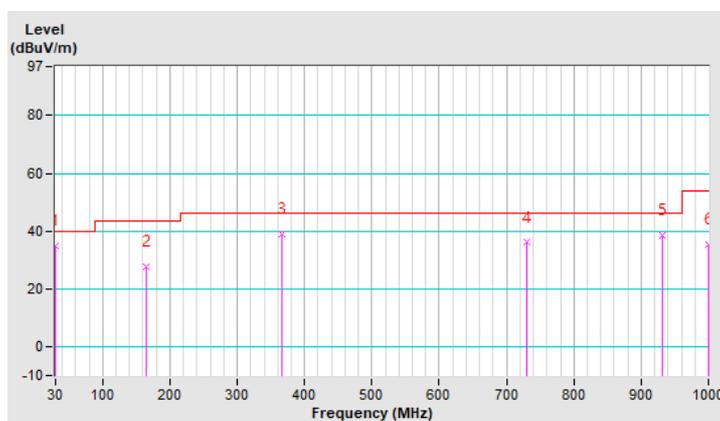


RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	B		

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	30.00	34.7 QP	40.0	-5.3	1.50 V	303	44.9	-10.2
2	165.80	27.7 QP	43.5	-15.8	2.00 V	279	36.6	-8.9
3	365.62	38.9 QP	46.0	-7.1	1.50 V	309	45.3	-6.4
4	729.37	36.0 QP	46.0	-10.0	1.00 V	291	35.3	0.7
5	932.10	38.7 QP	46.0	-7.3	1.50 V	353	33.5	5.2
6	1000.00	35.3 QP	54.0	-18.7	2.00 V	15	28.7	6.6

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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



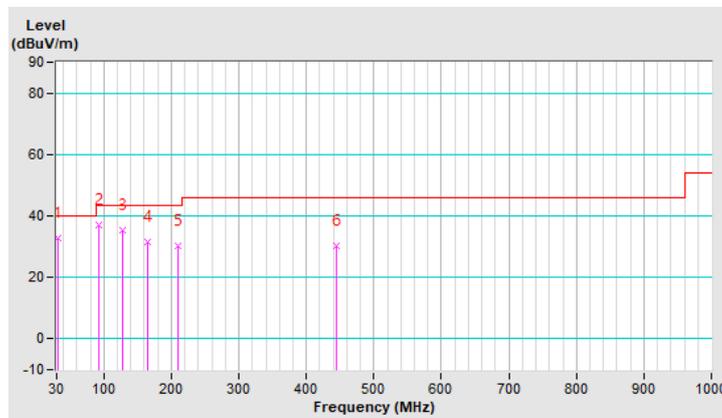
2TX (WAX620E)

RF Mode	TX 802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	A		

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	31.94	32.6 QP	40.0	-7.4	2.00 H	180	42.9	-10.3
2	92.08	36.9 QP	43.5	-6.6	1.00 H	90	51.1	-14.2
3	127.00	35.2 QP	43.5	-8.3	2.00 H	81	45.8	-10.6
4	164.83	31.6 QP	43.5	-11.9	1.50 H	6	40.5	-8.9
5	209.45	30.4 QP	43.5	-13.1	2.00 H	85	42.0	-11.6
6	444.19	30.2 QP	46.0	-15.8	1.50 H	6	35.0	-4.8

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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

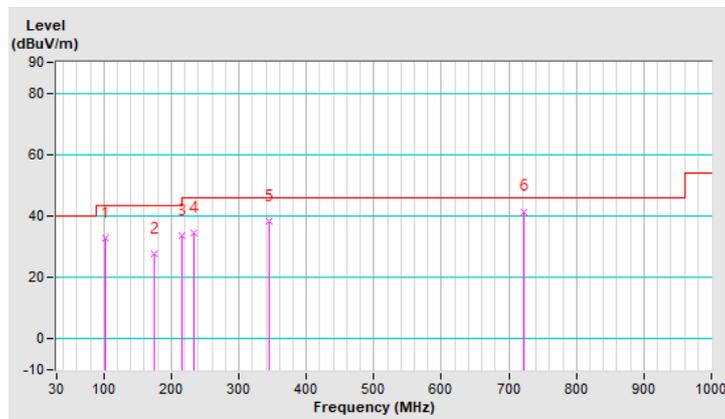


RF Mode	TX 802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	A		

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	102.75	32.7 QP	43.5	-10.8	1.99 V	141	45.6	-12.9
2	174.53	27.8 QP	43.5	-15.7	1.99 V	277	37.5	-9.7
3	215.27	33.7 QP	43.5	-9.8	1.00 V	229	45.2	-11.5
4	233.70	34.6 QP	46.0	-11.4	1.00 V	238	45.3	-10.7
5	345.25	38.4 QP	46.0	-7.6	1.99 V	277	45.2	-6.8
6	721.61	41.5 QP	46.0	-4.5	1.00 V	177	41.1	0.4

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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

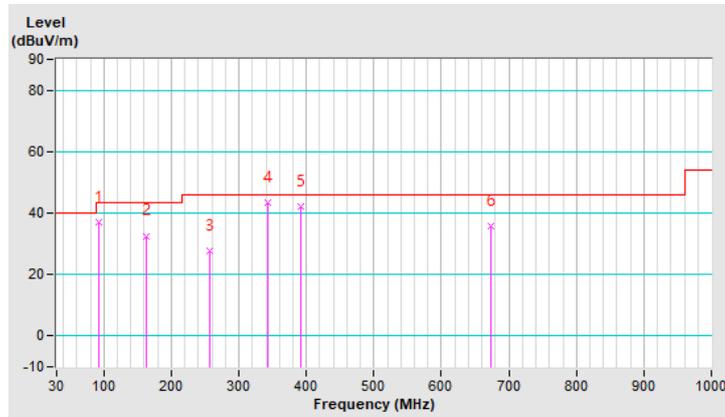


RF Mode	TX 802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	B		

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	93.05	36.9 QP	43.5	-6.6	1.00 H	304	51.0	-14.1
2	162.89	32.6 QP	43.5	-10.9	1.49 H	283	41.3	-8.7
3	256.01	27.6 QP	46.0	-18.4	1.00 H	15	36.8	-9.2
4	343.31	43.6 QP	46.0	-2.4	1.00 H	9	50.4	-6.8
5	391.81	42.0 QP	46.0	-4.0	2.00 H	147	48.0	-6.0
6	674.08	35.9 QP	46.0	-10.1	1.00 H	36	36.5	-0.6

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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

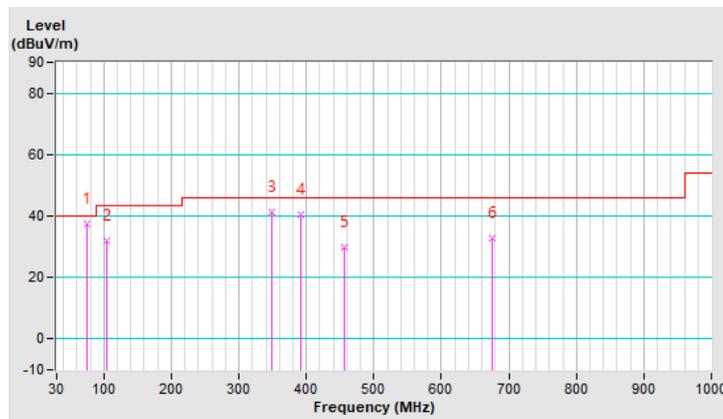


RF Mode	TX 802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	B		

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	74.62	37.6 QP	40.0	-2.4	2.00 V	256	49.1	-11.5
2	103.72	32.0 QP	43.5	-11.5	2.00 V	149	44.8	-12.8
3	348.16	41.1 QP	46.0	-4.9	1.50 V	308	47.9	-6.8
4	390.84	40.3 QP	46.0	-5.7	1.50 V	303	46.3	-6.0
5	455.83	29.7 QP	46.0	-16.3	1.00 V	247	34.3	-4.6
6	675.05	32.8 QP	46.0	-13.2	1.50 V	23	33.4	-0.6

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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



## 4.2 Conducted Emission Measurement

### 4.2.1 Limits of Conducted Emission Measurement

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

Note: 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 0.50MHz.

### 4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESR3	102412	Jan. 29, 2021	Jan. 28, 2022
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond2-01	Sep. 04, 2021	Sep. 03, 2022
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Jan. 28, 2021	Jan. 27, 2022
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Sep. 17, 2021	Sep. 16, 2022
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Shielded Room 2 (Conduction 2).

3. The VCCI Site Registration No. is C-12047.

4. Test Date: Oct. 06 ~ Nov. 12, 2021

#### 4.2.3 Test Procedures

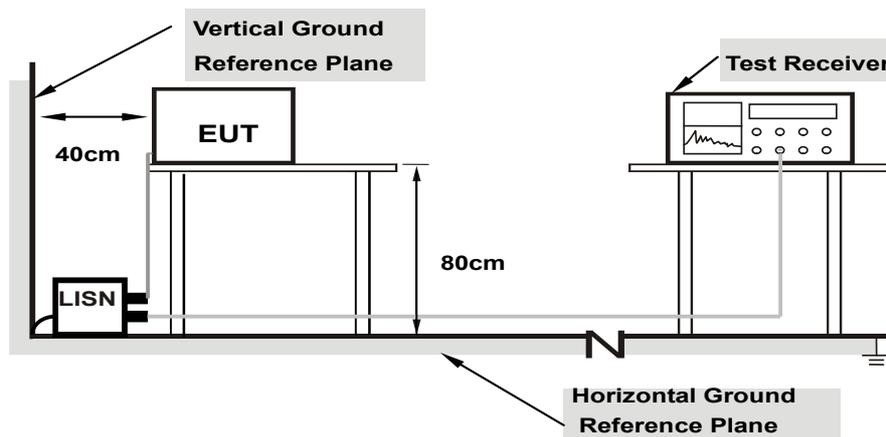
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

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

#### 4.2.4 Deviation from Test Standard

No deviation.

#### 4.2.5 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).

#### 4.2.6 EUT Operating Conditions

Same as 4.1.6.

### 4.2.7 Test Results

Worst-case data:

4TX (WAX630E)

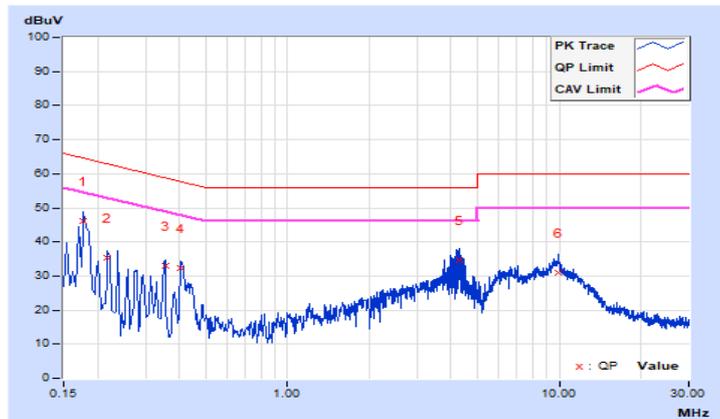
802.11ax (HE20)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.17800	10.14	36.14	18.62	46.28	28.76	64.58
2	0.21800	10.16	25.32	11.09	35.48	21.25	62.89	52.89	-27.41	-31.64
3	0.35400	10.20	22.68	10.56	32.88	20.76	58.87	48.87	-25.99	-28.11
4	0.40600	10.22	21.97	14.62	32.19	24.84	57.73	47.73	-25.54	-22.89
5	4.28200	10.40	24.31	9.18	34.71	19.58	56.00	46.00	-21.29	-26.42
6	9.89400	10.50	20.44	12.76	30.94	23.26	60.00	50.00	-29.06	-26.74

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.

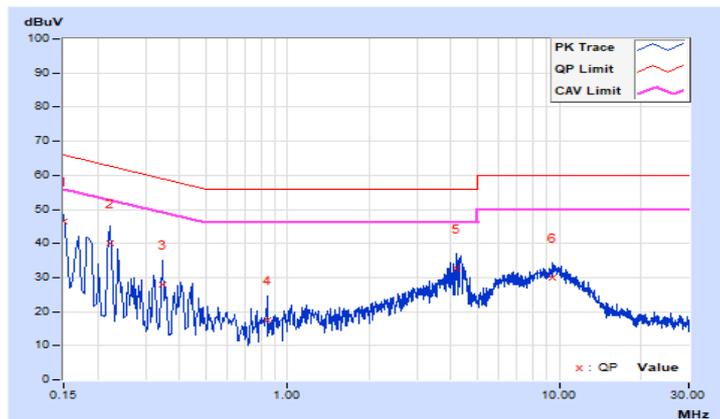


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15000	10.14	36.35	20.88	46.49	31.02	66.00
2	0.22200	10.18	29.80	9.25	39.98	19.43	62.74	52.74	-22.76	-33.31
3	0.34600	10.22	17.73	1.91	27.95	12.13	59.06	49.06	-31.11	-36.93
4	0.84200	10.28	7.36	2.64	17.64	12.92	56.00	46.00	-38.36	-33.08
5	4.20600	10.42	22.32	8.16	32.74	18.58	56.00	46.00	-23.26	-27.42
6	9.46600	10.56	19.57	11.93	30.13	22.49	60.00	50.00	-29.87	-27.51

Remarks:

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

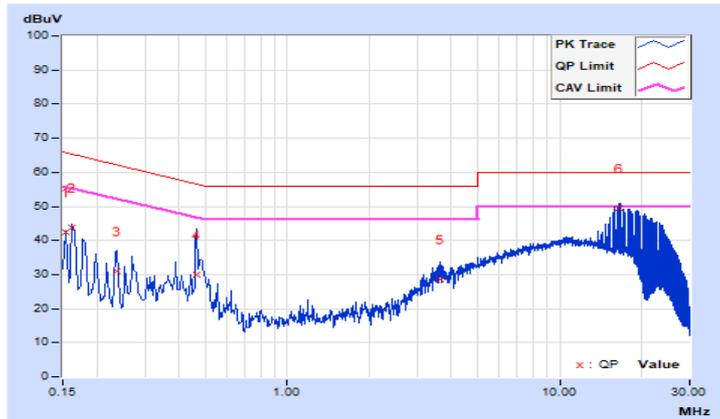


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15400	10.11	32.26	18.29	42.37	28.40	65.78
2	0.16200	10.11	33.59	17.58	43.70	27.69	65.36	55.36	-21.66	-27.67
3	0.23723	10.13	20.68	9.56	30.81	19.69	62.19	52.19	-31.38	-32.50
4	0.46200	10.14	19.85	15.48	29.99	25.62	56.66	46.66	-26.67	-21.04
5	3.61800	10.23	18.46	10.78	28.69	21.01	56.00	46.00	-27.31	-24.99
<b>6</b>	<b>16.51800</b>	<b>10.42</b>	<b>39.11</b>	<b>38.16</b>	<b>49.53</b>	<b>48.58</b>	<b>60.00</b>	<b>50.00</b>	<b>-10.47</b>	<b>-1.42</b>

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.

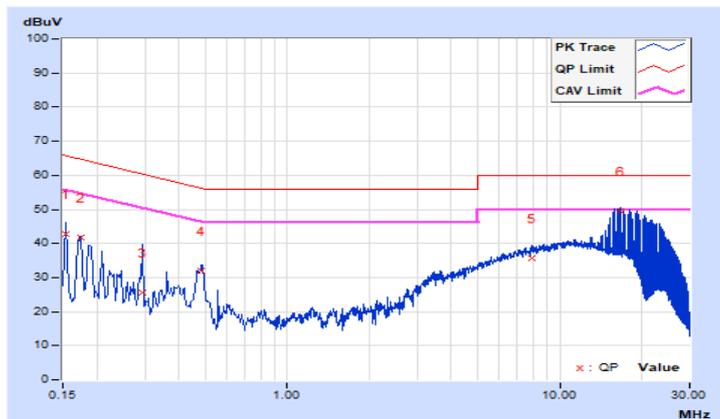


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15400	10.12	32.56	18.60	42.68	28.72	65.78
2	0.17384	10.12	31.71	17.10	41.83	27.22	64.77	54.77	-22.94	-27.55
3	0.29400	10.14	15.32	6.36	25.46	16.50	60.41	50.41	-34.95	-33.91
4	0.48572	10.15	21.69	18.01	31.84	28.16	56.24	46.24	-24.40	-18.08
5	7.88600	10.37	25.22	19.75	35.59	30.12	60.00	50.00	-24.41	-19.88
6	16.81400	10.59	38.91	37.21	49.50	47.80	60.00	50.00	-10.50	-2.20

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.



2TX (WAX620E)

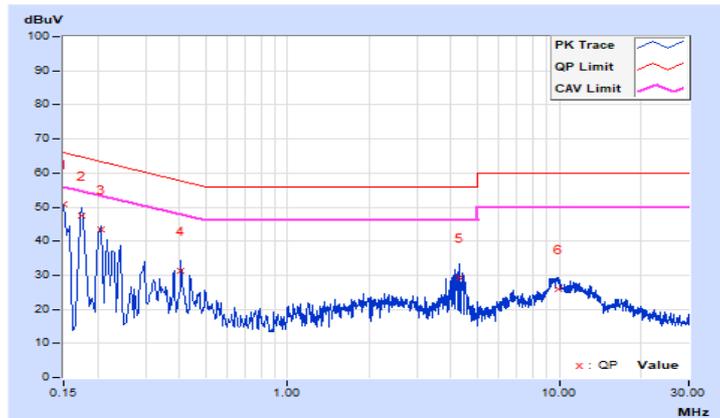
802.11a

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15000	10.12	40.86	22.31	50.98	32.43	66.00
2	0.17400	10.13	37.38	19.05	47.51	29.18	64.77	54.77	-17.26	-25.59
3	0.20577	10.15	33.32	16.12	43.47	26.27	63.37	53.37	-19.90	-27.10
4	0.40600	10.22	21.02	10.02	31.24	20.24	57.73	47.73	-26.49	-27.49
5	4.31800	10.40	18.81	5.33	29.21	15.73	56.00	46.00	-26.79	-30.27
6	9.87800	10.50	15.39	8.63	25.89	19.13	60.00	50.00	-34.11	-30.87

Remarks:

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

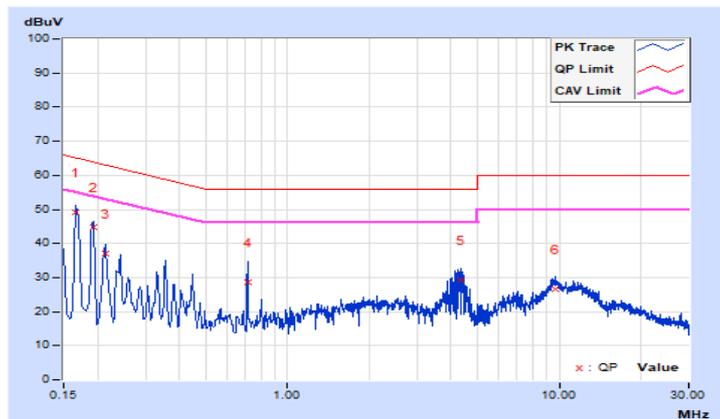


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.16600	10.15	39.05	20.38	49.20	30.53	65.16
2	0.19367	10.17	34.57	17.18	44.74	27.35	63.88	53.88	-19.14	-26.53
3	0.21400	10.17	26.84	12.50	37.01	22.67	63.05	53.05	-26.04	-30.38
4	0.71400	10.27	18.47	2.45	28.74	12.72	56.00	46.00	-27.26	-33.28
5	4.35400	10.42	19.01	4.78	29.43	15.20	56.00	46.00	-26.57	-30.80
6	9.62600	10.57	16.08	8.66	26.65	19.23	60.00	50.00	-33.35	-30.77

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.

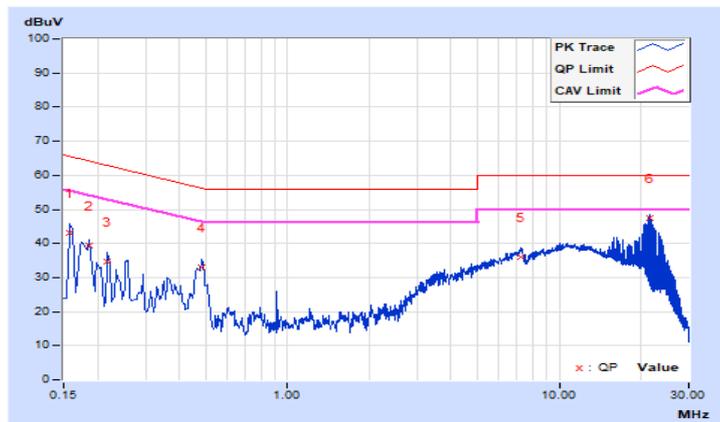


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15800	10.11	32.93	18.17	43.04	28.28	65.57
2	0.18600	10.12	29.43	15.37	39.55	25.49	64.21	54.21	-24.66	-28.72
3	0.21800	10.13	24.66	10.93	34.79	21.06	62.89	52.89	-28.10	-31.83
4	0.48200	10.14	22.98	18.39	33.12	28.53	56.30	46.30	-23.18	-17.77
5	7.20600	10.29	25.63	19.89	35.92	30.18	60.00	50.00	-24.08	-19.82
6	21.62200	10.42	36.95	35.33	47.37	45.75	60.00	50.00	-12.63	-4.25

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.

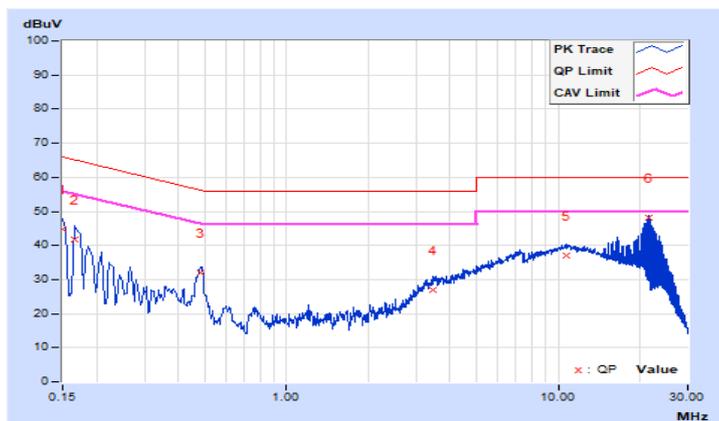


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15000	10.12	34.69	19.84	44.81	29.96	66.00
2	0.16600	10.12	31.67	17.33	41.79	27.45	65.16	55.16	-23.37	-27.71
3	0.48190	10.15	21.87	17.86	32.02	28.01	56.31	46.31	-24.29	-18.30
4	3.47000	10.26	16.59	9.49	26.85	19.75	56.00	46.00	-29.15	-26.25
5	10.75000	10.44	26.45	21.52	36.89	31.96	60.00	50.00	-23.11	-18.04
6	21.61800	10.61	37.45	36.72	48.06	47.33	60.00	50.00	-11.94	-2.67

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.



### 4.3 Transmit Power Measurement

#### 4.3.1 Limits of Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
	√	Indoor Access Point	1 Watt (30 dBm)
		Mobile and Portable client device	250mW (24 dBm)
U-NII-2A		√	250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C		√	250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3		√	1 Watt (30 dBm)

\*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

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

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

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

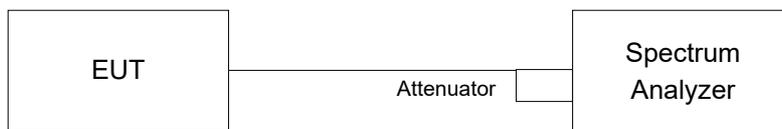
For power measurements on all other devices: Array Gain =  $10 \log(N_{ANT}/N_{SS})$  dB.

#### 4.3.2 Test Setup

For Power Output



For 26dB Bandwidth and power output of transmission above 5.725 GHz where the EBW crosses 5.725 GHz



#### 4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.3.4 Test Procedure

##### For Average Power Measurement

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

For transmission above 5.725 GHz where the EBW crosses 5.725 GHz

For channel aggregation (channel 138, 142, 144) measurement refer to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section II E 2 b) method SA-1.

##### For 26dB Bandwidth

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

#### 4.3.5 Deviation from Test Standard

No deviation.

#### 4.3.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

#### 4.3.7 Test Result

4TX (WAX630E)

Power Output:

CDD Mode

802.11a

Chan.	Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.97	20.91	20.90	20.94	495.528	26.95	30.00	Pass
40	5200	23.15	23.04	22.85	23.06	802.965	29.05	30.00	Pass
48	5240	23.06	23.03	22.98	23.02	802.268	29.04	30.00	Pass
52	5260	17.59	16.84	17.07	16.82	204.735	23.11	24.00	Pass
60	5300	17.45	17.19	16.83	16.85	204.562	23.11	24.00	Pass
64	5320	17.50	17.05	16.91	16.89	204.889	23.12	24.00	Pass
100	5500	17.61	17.10	16.69	17.15	207.509	23.17	24.00	Pass
116	5580	17.55	17.09	16.71	17.09	206.103	23.14	24.00	Pass
140	5700	17.66	17.21	16.91	17.22	<b>212.760</b>	23.28	24.00	Pass
144	5720 (For U-NII-2C)	16.26	16.06	16.02	16.11	163.458	22.13	22.85	Pass
144	5720 (For U-NII-3)	10.29	10.06	10.34	10.08	41.830	16.21	30.00	Pass
149	5745	22.95	23.12	23.09	23.01	806.049	29.06	30.00	Pass
157	5785	23.08	23.00	23.18	23.03	811.641	29.09	30.00	Pass
165	5825	23.03	23.18	23.16	23.11	820.538	29.14	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1.  $11\text{dBm} + 10\log(20.44) = 24.10 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(20.58) = 24.13 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(20.54) = 24.12 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(20.53) = 24.12 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(20.75) = 24.17 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(20.69) = 24.15 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5709.58) = 22.88 < 24\text{dBm}$

Chain 1

1.  $11\text{dBm} + 10\log(20.61) = 24.14 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(20.55) = 24.12 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(20.45) = 24.10 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(20.60) = 24.13 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(20.54) = 24.12 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(20.52) = 24.12 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5709.68) = 22.85 < 24\text{dBm}$

Chain 2

1.  $11\text{dBm} + 10\log(20.85) = 24.19 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(20.56) = 24.13 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(20.55) = 24.12 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(20.56) = 24.13 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(20.55) = 24.12 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(20.38) = 24.09 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5709.58) = 22.88 < 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(20.39) = 24.09 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(20.46) = 24.10 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(20.57) = 24.13 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(20.70) = 24.15 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(20.43) = 24.10 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(20.95) = 24.21 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5709.56) = 22.88 < 24\text{dBm}$

802.11ac (VHT20)

Chan.	Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.88	20.93	20.79	20.90	489.318	26.90	30.00	Pass
40	5200	22.82	22.99	23.06	23.33	808.073	29.07	30.00	Pass
48	5240	23.04	23.13	22.97	23.27	817.439	29.12	30.00	Pass
52	5260	17.57	16.95	17.23	16.80	207.400	23.17	24.00	Pass
60	5300	17.38	17.27	17.11	16.83	207.634	23.17	24.00	Pass
64	5320	17.62	17.11	17.11	16.79	208.371	23.19	24.00	Pass
100	5500	17.41	17.04	17.03	17.11	207.534	23.17	24.00	Pass
116	5580	17.48	17.13	17.01	17.02	208.202	23.18	24.00	Pass
140	5700	17.59	17.18	16.90	17.15	210.509	23.23	24.00	Pass
144	5720 (For U-NII-2C)	16.10	16.21	16.00	16.20	164.019	22.15	24.00	Pass
144	5720 (For U-NII-3)	10.28	10.37	10.15	10.38	42.821	16.32	30.00	Pass
149	5745	22.70	23.19	23.13	23.32	815.030	29.11	30.00	Pass
157	5785	22.94	23.24	23.09	23.24	822.218	29.15	30.00	Pass
165	5825	22.86	23.18	23.11	23.19	814.260	29.11	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1.  $11\text{dBm} + 10\log(22.34) = 24.49 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.19) = 24.46 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.25) = 24.47 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.01) = 24.42 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.11) = 24.44 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.13) = 24.44 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5709.04) = 23.03 < 24\text{dBm}$

Chain 1

1.  $11\text{dBm} + 10\log(22.03) = 24.43 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.16) = 24.45 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.41) = 24.50 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(21.90) = 24.40 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.09) = 24.44 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.10) = 24.44 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5708.97) = 23.04 < 24\text{dBm}$

Chain 2

1.  $11\text{dBm} + 10\log(21.95) = 24.41 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.12) = 24.44 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.33) = 24.48 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.23) = 24.46 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(21.99) = 24.42 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(21.96) = 24.41 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5709.23) = 22.97 < 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(22.13) = 24.44 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(21.95) = 24.41 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.12) = 24.44 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.24) = 24.47 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.45) = 24.51 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.38) = 24.49 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5708.84) = 23.08 < 24\text{dBm}$

802.11ac (VHT40)

Chan.	Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	19.95	20.05	19.86	20.07	398.466	26.00	30.00	Pass
46	5230	23.00	23.08	22.91	22.99	797.263	29.02	30.00	Pass
54	5270	17.42	16.88	17.32	16.80	205.775	23.13	24.00	Pass
62	5310	17.45	17.00	17.25	16.87	207.438	23.17	24.00	Pass
102	5510	17.54	17.34	16.77	17.04	209.071	23.20	24.00	Pass
110	5550	17.55	17.14	16.95	17.00	208.310	23.19	24.00	Pass
134	5670	17.48	17.15	16.97	16.94	207.061	23.16	24.00	Pass
142	5710 (For U-NII-2C)	16.01	16.31	16.02	16.00	162.464	22.11	24.00	Pass
142	5710 (For U-NII-3)	10.42	10.43	10.10	10.31	43.029	16.34	30.00	Pass
151	5755	22.99	22.99	22.97	23.13	801.876	29.04	30.00	Pass
159	5795	23.00	22.96	23.08	23.10	804.633	29.06	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1.  $11\text{dBm} + 10\log(41.91) = 27.22 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.72) = 27.20 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.97) = 27.22 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.77) = 27.20 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.01) = 26.56 > 24\text{dBm}$

Chain 1

1.  $11\text{dBm} + 10\log(41.70) = 27.20 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.63) = 27.19 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.80) = 27.21 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.65) = 27.19 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.83) = 27.21 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.09) = 26.55 > 24\text{dBm}$

Chain 2

1.  $11\text{dBm} + 10\log(41.51) = 27.18 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.84) = 27.21 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.81) = 27.21 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.93) = 27.22 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.87) = 27.21 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.14) = 26.54 > 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(41.65) = 27.19 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.82) = 27.21 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.74) = 27.20 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.57) = 27.18 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.15) = 26.54 > 24\text{dBm}$

802.11ac (VHT80)

Chan.	Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	17.61	17.74	17.94	18.36	247.885	23.94	30.00	Pass
58	5290	17.21	16.92	17.03	16.87	200.913	23.03	24.00	Pass
106	5530	17.02	16.95	17.02	16.98	200.134	23.01	24.00	Pass
122	5610	17.31	17.21	17.04	17.06	207.827	23.18	24.00	Pass
138	5690 (For U-NII-2C)	16.23	16.13	16.10	15.81	161.841	22.09	24.00	Pass
138	5690 (For U-NII-3)	10.01	10.21	10.03	10.00	40.588	16.08	30.00	Pass
155	5775	21.91	21.67	22.29	22.46	647.763	28.11	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1.  $11\text{dBm} + 10\log(82.87) = 30.18 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(83.59) = 30.22 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(83.22) = 30.20 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(5725.00 - 5648.56) = 29.83 > 24\text{dBm}$

Chain 1

1.  $11\text{dBm} + 10\log(82.93) = 30.18 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(82.93) = 30.18 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(82.82) = 30.18 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(5725.00 - 5648.36) = 29.84 > 24\text{dBm}$

Chain 2

1.  $11\text{dBm} + 10\log(83.28) = 30.20 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(83.07) = 30.19 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(83.35) = 30.20 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(5725.00 - 5648.50) = 29.84 > 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(83.04) = 30.19 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(83.34) = 30.20 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(83.31) = 30.20 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(5725.00 - 5648.65) = 29.83 > 24\text{dBm}$

802.11ac (VHT160)

Chan.	Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
50	5250 (For U-NII-1)	11.68	11.83	11.97	10.74	67.735	18.31	30.00	Pass
50	5250 (For U-NII-2A)	11.35	11.35	11.67	10.56	62.788	17.98	24.00	Pass
114	5570	15.65	15.82	15.53	15.42	145.484	21.63	24.00	Pass

Note:

For U-NII-1A, U-NII-2A Band:

Chain 0

1.  $11\text{dBm} + 10\log(83.58) = 30.22 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(168.16) = 33.25 > 24\text{dBm}$

Chain 1

1.  $11\text{dBm} + 10\log(83.93) = 30.23 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(168.12) = 33.25 > 24\text{dBm}$

Chain 2

1.  $11\text{dBm} + 10\log(83.90) = 30.23 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(168.43) = 33.26 > 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(83.74) = 30.22 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(168.36) = 33.26 > 24\text{dBm}$

802.11ax (HE20)

Chan.	Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.97	20.86	20.91	20.98	495.549	26.95	30.00	Pass
40	5200	22.84	23.08	23.10	23.36	816.489	29.12	30.00	Pass
48	5240	23.07	23.14	23.00	23.30	<b>822.154</b>	29.15	30.00	Pass
52	5260	17.61	16.99	17.31	16.86	210.036	23.22	24.00	Pass
60	5300	17.45	17.31	17.19	16.90	<b>210.755</b>	23.24	24.00	Pass
64	5320	17.70	17.19	17.13	16.80	210.749	23.24	24.00	Pass
100	5500	17.46	17.11	17.05	17.17	209.941	23.22	24.00	Pass
116	5580	17.50	17.19	17.02	17.05	209.643	23.21	24.00	Pass
140	5700	17.61	17.23	16.91	17.20	212.093	23.27	24.00	Pass
144	5720 (For U-NII-2C)	16.15	16.24	16.02	16.24	165.350	22.18	22.97	Pass
144	5720 (For U-NII-3)	10.32	10.41	10.19	10.42	43.217	16.36	30.00	Pass
149	5745	22.75	23.24	23.15	23.35	822.038	29.15	30.00	Pass
157	5785	22.96	23.29	23.15	23.26	<b>829.376</b>	29.19	30.00	Pass
165	5825	22.89	23.27	23.12	23.27	824.301	29.16	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1.  $11\text{dBm} + 10\log(22.34) = 24.49 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.19) = 24.46 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.25) = 24.47 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.01) = 24.42 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.11) = 24.44 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.13) = 24.44 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5709.04) = 23.03 < 24\text{dBm}$

Chain 1

1.  $11\text{dBm} + 10\log(22.03) = 24.43 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.16) = 24.45 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.41) = 24.50 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(21.90) = 24.40 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.09) = 24.44 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.10) = 24.44 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5708.97) = 23.04 < 24\text{dBm}$

Chain 2

1.  $11\text{dBm} + 10\log(21.95) = 24.41 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.12) = 24.44 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.33) = 24.48 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.23) = 24.46 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(21.99) = 24.42 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(21.96) = 24.41 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5709.23) = 22.97 < 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(22.13) = 24.44 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(21.95) = 24.41 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.12) = 24.44 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.24) = 24.47 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.45) = 24.51 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.38) = 24.49 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5708.84) = 23.08 < 24\text{dBm}$

802.11ax (HE40)

Chan.	Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	20.07	19.96	19.98	20.02	400.710	26.03	30.00	Pass
46	5230	23.06	23.11	22.97	23.03	806.008	29.06	30.00	Pass
54	5270	17.50	16.93	17.34	16.84	208.057	23.18	24.00	Pass
62	5310	17.49	17.02	17.31	16.89	209.147	23.20	24.00	Pass
102	5510	17.59	17.41	16.82	17.09	211.745	23.26	24.00	Pass
110	5550	17.60	17.15	17.03	17.06	210.706	23.24	24.00	Pass
134	5670	17.55	17.18	16.99	17.02	209.478	23.21	24.00	Pass
142	5710 (For U-NII-2C)	16.04	16.36	16.11	16.03	164.349	22.16	24.00	Pass
142	5710 (For U-NII-3)	10.17	10.47	10.20	10.34	42.828	16.32	30.00	Pass
151	5755	23.01	23.07	23.04	23.16	811.141	29.09	30.00	Pass
159	5795	23.08	22.97	23.11	23.15	812.571	29.10	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1.  $11\text{dBm} + 10\log(41.91) = 27.22 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.72) = 27.20 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.97) = 27.22 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.77) = 27.20 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.01) = 26.56 > 24\text{dBm}$

Chain 1

1.  $11\text{dBm} + 10\log(41.70) = 27.20 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.63) = 27.19 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.80) = 27.21 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.65) = 27.19 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.83) = 27.21 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.09) = 26.55 > 24\text{dBm}$

Chain 2

1.  $11\text{dBm} + 10\log(41.51) = 27.18 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.84) = 27.21 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.81) = 27.21 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.93) = 27.22 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.87) = 27.21 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.14) = 26.54 > 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(41.65) = 27.19 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.82) = 27.21 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.74) = 27.20 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.57) = 27.18 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.15) = 26.54 > 24\text{dBm}$

802.11ax (HE80)

Chan.	Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	17.68	17.77	18.03	18.44	251.811	24.01	30.00	Pass
58	5290	17.28	16.89	17.10	16.88	202.361	23.06	24.00	Pass
106	5530	17.05	16.98	17.04	16.92	200.374	23.02	24.00	Pass
122	5610	17.39	17.22	17.05	17.08	209.300	23.21	24.00	Pass
138	5690 (For U-NII-2C)	16.28	16.18	16.15	15.88	163.893	22.15	24.00	Pass
138	5690 (For U-NII-3)	10.05	10.26	10.09	10.03	41.011	16.13	30.00	Pass
155	5775	21.94	21.73	22.30	22.55	654.962	28.16	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1.  $11\text{dBm} + 10\log(82.87) = 30.18 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(83.59) = 30.22 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(83.22) = 30.20 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(5725.00 - 5648.56) = 29.83 > 24\text{dBm}$

Chain 1

1.  $11\text{dBm} + 10\log(82.93) = 30.18 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(82.93) = 30.18 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(82.82) = 30.18 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(5725.00 - 5648.36) = 29.84 > 24\text{dBm}$

Chain 2

1.  $11\text{dBm} + 10\log(83.28) = 30.20 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(83.07) = 30.19 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(83.35) = 30.20 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(5725.00 - 5648.50) = 29.84 > 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(83.04) = 30.19 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(83.34) = 30.20 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(83.31) = 30.20 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(5725.00 - 5648.65) = 29.83 > 24\text{dBm}$

802.11ax (HE160)

Chan.	Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
50	5250 (For U-NII-1)	11.71	11.88	12.00	10.77	68.288	18.34	30.00	Pass
50	5250 (For U-NII-2A)	11.37	11.38	11.70	10.59	63.186	18.01	24.00	Pass
114	5570	15.69	15.89	15.61	15.50	147.756	21.70	24.00	Pass

Note:

For U-NII-1A, U-NII-2A Band:

Chain 0

1.  $11\text{dBm} + 10\log(83.58) = 30.22 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(168.16) = 33.25 > 24\text{dBm}$

Chain 1

1.  $11\text{dBm} + 10\log(83.93) = 30.23 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(168.12) = 33.25 > 24\text{dBm}$

Chain 2

1.  $11\text{dBm} + 10\log(83.90) = 30.23 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(168.43) = 33.26 > 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(83.74) = 30.22 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(168.36) = 33.26 > 24\text{dBm}$

Beamforming Mode

802.11ac (VHT20)

Chan.	Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.88	20.93	20.79	20.90	489.318	26.90	29.75	Pass
40	5200	22.82	22.99	23.06	23.33	808.073	29.07	29.75	Pass
48	5240	23.04	23.13	22.97	23.27	817.439	29.12	29.75	Pass
52	5260	17.57	16.95	17.23	16.80	207.400	23.17	23.74	Pass
60	5300	17.38	17.27	17.11	16.83	207.634	23.17	23.74	Pass
64	5320	17.62	17.11	17.11	16.79	208.371	23.19	23.74	Pass
100	5500	17.41	17.04	17.03	17.11	207.534	23.17	23.88	Pass
116	5580	17.48	17.13	17.01	17.02	208.202	23.18	23.88	Pass
140	5700	17.59	17.18	16.90	17.15	210.509	23.23	23.88	Pass
144	5720 (For U-NII-2C)	16.10	16.21	16.00	16.20	164.019	22.15	22.85	Pass
144	5720 (For U-NII-3)	10.28	10.37	10.15	10.38	42.821	16.32	29.94	Pass
149	5745	22.70	23.19	23.13	23.32	815.030	29.11	29.94	Pass
157	5785	22.94	23.24	23.09	23.24	822.218	29.15	29.94	Pass
165	5825	22.86	23.18	23.11	23.19	814.26	29.11	29.94	Pass

Note:

1. 5180-5250MHz: Directional gain = 6.25dBi > 6dBi, so the power limit shall be reduced to 30 - (6.25 - 6) = 29.75dBm.
2. 5250-5320MHz: Directional gain = 6.26dBi > 6dBi, so the power limit shall be reduced to 24 - (6.26 - 6) = 23.74dBm.
3. 5500-5700MHz: Directional gain = 6.12dBi > 6dBi, so the power limit shall be reduced to 24 - (6.12 - 6) = 23.88dBm.
4. 5720MHz: Directional gain = 6.12dBi > 6dBi, so the power limit shall be reduced to 22.97 - (6.12 - 6) = 22.85dBm.
5. 5745-5825MHz: Directional gain = 6.06dBi > 6dBi, so the power limit shall be reduced to 30 - (6.06 - 6) = 29.94dBm.

For U-NII-2A, U-NII-2C Band:

Chain 0

1.  $11\text{dBm} + 10\log(22.34) = 24.49 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.19) = 24.46 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.25) = 24.47 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.01) = 24.42 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.11) = 24.44 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.13) = 24.44 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5709.04) = 23.03 < 24\text{dBm}$

Chain 1

1.  $11\text{dBm} + 10\log(22.03) = 24.43 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.16) = 24.45 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.41) = 24.50 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(21.90) = 24.40 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.09) = 24.44 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.10) = 24.44 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5708.97) = 23.04 < 24\text{dBm}$

Chain 2

1.  $11\text{dBm} + 10\log(21.95) = 24.41 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.12) = 24.44 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.33) = 24.48 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.23) = 24.46 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(21.99) = 24.42 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(21.96) = 24.41 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5709.23) = 22.97 < 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(22.13) = 24.44 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(21.95) = 24.41 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.12) = 24.44 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.24) = 24.47 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.45) = 24.51 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.38) = 24.49 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5708.84) = 23.08 < 24\text{dBm}$

802.11ac (VHT40)

Chan.	Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	19.95	20.05	19.86	20.07	398.466	26.00	29.75	Pass
46	5230	23.00	23.08	22.91	22.99	797.263	29.02	29.75	Pass
54	5270	17.42	16.88	17.32	16.80	205.775	23.13	23.74	Pass
62	5310	17.45	17.00	17.25	16.87	207.438	23.17	23.74	Pass
102	5510	17.54	17.34	16.77	17.04	209.071	23.20	23.88	Pass
110	5550	17.55	17.14	16.95	17.00	208.310	23.19	23.88	Pass
134	5670	17.48	17.15	16.97	16.94	207.061	23.16	23.88	Pass
142	5710 (For U-NII-2C)	16.01	16.31	16.02	16.00	162.464	22.11	23.88	Pass
142	5710 (For U-NII-3)	10.42	10.43	10.10	10.31	43.029	16.34	29.94	Pass
151	5755	22.99	22.99	22.97	23.13	801.876	29.04	29.94	Pass
159	5795	23.00	22.96	23.08	23.10	804.633	29.06	29.94	Pass

Note:

1. 5180-5250MHz: Directional gain = 6.25dBi > 6dBi, so the power limit shall be reduced to  $30 - (6.25 - 6) = 29.75\text{dBm}$ .
2. 5250-5320MHz: Directional gain = 6.26dBi > 6dBi, so the power limit shall be reduced to  $24 - (6.26 - 6) = 23.74\text{dBm}$ .
3. 5500-5720MHz: Directional gain = 6.12dBi > 6dBi, so the power limit shall be reduced to  $24 - (6.12 - 6) = 23.88\text{dBm}$ .
4. 5745-5825MHz: Directional gain = 6.06dBi > 6dBi, so the power limit shall be reduced to  $30 - (6.06 - 6) = 29.94\text{dBm}$ .

For U-NII-2A, U-NII-2C Band:

Chain 0

1.  $11\text{dBm} + 10\log(41.91) = 27.22 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.72) = 27.20 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.97) = 27.22 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.77) = 27.20 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.01) = 26.56 > 24\text{dBm}$

Chain 1

1.  $11\text{dBm} + 10\log(41.70) = 27.20 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.63) = 27.19 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.80) = 27.21 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.65) = 27.19 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.83) = 27.21 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.09) = 26.55 > 24\text{dBm}$

Chain 2

1.  $11\text{dBm} + 10\log(41.51) = 27.18 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.84) = 27.21 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.81) = 27.21 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.93) = 27.22 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.87) = 27.21 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.14) = 26.54 > 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(41.65) = 27.19 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.82) = 27.21 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.74) = 27.20 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.57) = 27.18 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.15) = 26.54 > 24\text{dBm}$

802.11ac (VHT80)

Chan.	Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	17.61	17.74	17.94	18.36	247.885	23.94	29.75	Pass
58	5290	17.21	16.92	17.03	16.87	200.913	23.03	23.74	Pass
106	5530	17.02	16.95	17.02	16.98	200.134	23.01	23.88	Pass
122	5610	17.31	17.21	17.04	17.06	207.827	23.18	23.88	Pass
138	5690 (For U-NII-2C)	16.23	16.13	16.10	15.81	161.841	22.09	23.88	Pass
138	5690 (For U-NII-3)	10.01	10.21	10.03	10.00	40.588	16.08	29.94	Pass
155	5775	21.91	21.67	22.29	22.46	647.763	28.11	29.94	Pass

Note:

1. 5180-5250MHz: Directional gain = 6.25dBi > 6dBi, so the power limit shall be reduced to 30 - (6.25 - 6) = 29.75dBm.
2. 5250-5320MHz: Directional gain = 6.26dBi > 6dBi, so the power limit shall be reduced to 24 - (6.26 - 6) = 23.74dBm.
3. 5500-5720MHz: Directional gain = 6.12dBi > 6dBi, so the power limit shall be reduced to 24 - (6.12 - 6) = 23.88dBm.
4. 5745-5825MHz: Directional gain = 6.06dBi > 6dBi, so the power limit shall be reduced to 30 - (6.06 - 6) = 29.94dBm.

For U-NII-2A, U-NII-2C Band:

Chain 0

1. 11dBm + 10log (82.87) = 30.18 > 24dBm
2. 11dBm + 10log (83.59) = 30.22 > 24dBm
3. 11dBm + 10log (83.22) = 30.20 > 24dBm
4. 11dBm + 10log (5725.00 - 5648.56) = 29.83 > 24dBm

Chain 1

1. 11dBm + 10log (82.93) = 30.18 > 24dBm
2. 11dBm + 10log (82.93) = 30.18 > 24dBm
3. 11dBm + 10log (82.82) = 30.18 > 24dBm
4. 11dBm + 10log (5725.00 - 5648.36) = 29.84 > 24dBm

Chain 2

1. 11dBm + 10log (83.28) = 30.20 > 24dBm
2. 11dBm + 10log (83.07) = 30.19 > 24dBm
3. 11dBm + 10log (83.35) = 30.20 > 24dBm
4. 11dBm + 10log (5725.00 - 5648.50) = 29.84 > 24dBm

Chain 3

1. 11dBm + 10log (83.04) = 30.19 > 24dBm
2. 11dBm + 10log (83.34) = 30.20 > 24dBm
3. 11dBm + 10log (83.31) = 30.20 > 24dBm
4. 11dBm + 10log (5725.00 - 5648.65) = 29.83 > 24dBm

802.11ac (VHT160)

Chan.	Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
50	5250 (For U-NII-1)	11.68	11.83	11.97	10.74	67.735	18.31	29.75	Pass
50	5250 (For U-NII-2A)	11.35	11.35	11.67	10.56	62.788	17.98	23.74	Pass
114	5570	15.65	15.82	15.53	15.42	145.484	21.63	23.88	Pass

Note:

1. 5180-5250MHz: Directional gain = 6.25dBi > 6dBi, so the power limit shall be reduced to 30 - (6.25 - 6) = 29.75dBm.
2. 5250-5320MHz: Directional gain = 6.26dBi > 6dBi, so the power limit shall be reduced to 24 - (6.26 - 6) = 23.74dBm.
3. 5500-5720MHz: Directional gain = 6.12dBi > 6dBi, so the power limit shall be reduced to 24 - (6.12 - 6) = 23.88dBm.

For U-NII-1A, U-NII-2A Band:

Chain 0

1. 11dBm + 10log (83.58) = 30.22 > 24dBm
2. 11dBm + 10log (168.16) = 33.25 > 24dBm

Chain 1

1. 11dBm + 10log (83.93) = 30.23 > 24dBm
2. 11dBm + 10log (168.12) = 33.25 > 24dBm

Chain 2

1. 11dBm + 10log (83.90) = 30.23 > 24dBm
2. 11dBm + 10log (168.43) = 33.26 > 24dBm

Chain 3

1. 11dBm + 10log (83.74) = 30.22 > 24dBm
2. 11dBm + 10log (168.36) = 33.26 > 24dBm

802.11ax (HE20)

Chan.	Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.97	20.86	20.91	20.98	495.549	26.95	29.75	Pass
40	5200	22.84	23.08	23.10	23.36	816.489	29.12	29.75	Pass
48	5240	23.07	23.14	23.00	23.30	<b>822.154</b>	29.15	29.75	Pass
52	5260	17.61	16.99	17.31	16.86	210.036	23.22	23.74	Pass
60	5300	17.45	17.31	17.19	16.90	<b>210.755</b>	23.24	23.74	Pass
64	5320	17.70	17.19	17.13	16.80	210.749	23.24	23.74	Pass
100	5500	17.46	17.11	17.05	17.17	209.941	23.22	23.88	Pass
116	5580	17.50	17.19	17.02	17.05	209.643	23.21	23.88	Pass
140	5700	17.61	17.23	16.91	17.20	<b>212.093</b>	23.27	23.88	Pass
144	5720 (For U-NII-2C)	16.15	16.24	16.02	16.24	165.350	22.18	22.85	Pass
144	5720 (For U-NII-3)	10.32	10.41	10.19	10.42	43.217	16.36	29.94	Pass
149	5745	22.75	23.24	23.15	23.35	822.038	29.15	29.94	Pass
157	5785	22.96	23.29	23.15	23.26	<b>829.376</b>	29.19	29.94	Pass
165	5825	22.89	23.27	23.12	23.27	824.301	29.16	29.94	Pass

Note:

1. 5180-5250MHz: Directional gain = 6.25dBi > 6dBi, so the power limit shall be reduced to 30 - (6.25 - 6) = 29.75dBm.
2. 5250-5320MHz: Directional gain = 6.26dBi > 6dBi, so the power limit shall be reduced to 24 - (6.26 - 6) = 23.74dBm.
3. 5500-5700MHz: Directional gain = 6.12dBi > 6dBi, so the power limit shall be reduced to 24 - (6.12 - 6) = 23.88dBm.
4. 5720MHz: Directional gain = 6.12dBi > 6dBi, so the power limit shall be reduced to 22.97 - (6.12 - 6) = 22.85dBm.
5. 5745-5825MHz: Directional gain = 6.06dBi > 6dBi, so the power limit shall be reduced to 30 - (6.06 - 6) = 29.94dBm.

For U-NII-2A, U-NII-2C Band:

Chain 0

1.  $11\text{dBm} + 10\log(22.34) = 24.49 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.19) = 24.46 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.25) = 24.47 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.01) = 24.42 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.11) = 24.44 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.13) = 24.44 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5709.04) = 23.03 < 24\text{dBm}$

Chain 1

1.  $11\text{dBm} + 10\log(22.03) = 24.43 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.16) = 24.45 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.41) = 24.50 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(21.90) = 24.40 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.09) = 24.44 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.10) = 24.44 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5708.97) = 23.04 < 24\text{dBm}$

Chain 2

1.  $11\text{dBm} + 10\log(21.95) = 24.41 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.12) = 24.44 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.33) = 24.48 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.23) = 24.46 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(21.99) = 24.42 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(21.96) = 24.41 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5709.23) = 22.97 < 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(22.13) = 24.44 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(21.95) = 24.41 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.12) = 24.44 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.24) = 24.47 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.45) = 24.51 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.38) = 24.49 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5708.84) = 23.08 < 24\text{dBm}$

802.11ax (HE40)

Chan.	Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	20.07	19.96	19.98	20.02	400.710	26.03	29.75	Pass
46	5230	23.06	23.11	22.97	23.03	806.008	29.06	29.75	Pass
54	5270	17.50	16.93	17.34	16.84	208.057	23.18	23.74	Pass
62	5310	17.49	17.02	17.31	16.89	209.147	23.20	23.74	Pass
102	5510	17.59	17.41	16.82	17.09	211.745	23.26	23.88	Pass
110	5550	17.60	17.15	17.03	17.06	210.706	23.24	23.88	Pass
134	5670	17.55	17.18	16.99	17.02	209.478	23.21	23.88	Pass
142	5710 (For U-NII-2C)	16.04	16.36	16.11	16.03	164.349	22.16	23.88	Pass
142	5710 (For U-NII-3)	10.17	10.47	10.20	10.34	42.828	16.32	29.94	Pass
151	5755	23.01	23.07	23.04	23.16	811.141	29.09	29.94	Pass
159	5795	23.08	22.97	23.11	23.15	812.571	29.10	29.94	Pass

Note:

1. 5180-5250MHz: Directional gain = 6.25dBi > 6dBi, so the power limit shall be reduced to  $30 - (6.25 - 6) = 29.75\text{dBm}$ .
2. 5250-5320MHz: Directional gain = 6.26dBi > 6dBi, so the power limit shall be reduced to  $24 - (6.26 - 6) = 23.74\text{dBm}$ .
3. 5500-5720MHz: Directional gain = 6.12dBi > 6dBi, so the power limit shall be reduced to  $24 - (6.12 - 6) = 23.88\text{dBm}$ .
4. 5745-5825MHz: Directional gain = 6.06dBi > 6dBi, so the power limit shall be reduced to  $30 - (6.06 - 6) = 29.94\text{dBm}$ .

For U-NII-2A, U-NII-2C Band:

Chain 0

1.  $11\text{dBm} + 10\log(41.91) = 27.22 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.72) = 27.20 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.97) = 27.22 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.77) = 27.20 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.01) = 26.56 > 24\text{dBm}$

Chain 1

1.  $11\text{dBm} + 10\log(41.70) = 27.20 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.63) = 27.19 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.80) = 27.21 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.65) = 27.19 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.83) = 27.21 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.09) = 26.55 > 24\text{dBm}$

Chain 2

1.  $11\text{dBm} + 10\log(41.51) = 27.18 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.84) = 27.21 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.81) = 27.21 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.93) = 27.22 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.87) = 27.21 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.14) = 26.54 > 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(41.65) = 27.19 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.82) = 27.21 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.74) = 27.20 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.57) = 27.18 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.15) = 26.54 > 24\text{dBm}$

### 802.11ax (HE80)

Chan.	Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	17.68	17.77	18.03	18.44	251.811	24.01	29.75	Pass
58	5290	17.28	16.89	17.10	16.88	202.361	23.06	23.74	Pass
106	5530	17.05	16.98	17.04	16.92	200.374	23.02	23.88	Pass
122	5610	17.39	17.22	17.05	17.08	209.300	23.21	23.88	Pass
138	5690 (For U-NII-2C)	16.28	16.18	16.15	15.88	163.893	22.15	23.88	Pass
138	5690 (For U-NII-3)	10.05	10.26	10.09	10.03	41.011	16.13	29.94	Pass
155	5775	21.94	21.73	22.30	22.55	654.962	28.16	29.94	Pass

**Note:**

1. 5180-5250MHz: Directional gain = 6.25dBi > 6dBi, so the power limit shall be reduced to 30 - (6.25 - 6) = 29.75dBm.
2. 5250-5320MHz: Directional gain = 6.26dBi > 6dBi, so the power limit shall be reduced to 24 - (6.26 - 6) = 23.74dBm.
3. 5500-5720MHz: Directional gain = 6.12dBi > 6dBi, so the power limit shall be reduced to 24 - (6.12 - 6) = 23.88dBm.
4. 5745-5825MHz: Directional gain = 6.06dBi > 6dBi, so the power limit shall be reduced to 30 - (6.06 - 6) = 29.94dBm.

**For U-NII-2A, U-NII-2C Band:**

**Chain 0**

1. 11dBm + 10log (82.87) = 30.18 > 24dBm
2. 11dBm + 10log (83.59) = 30.22 > 24dBm
3. 11dBm + 10log (83.22) = 30.20 > 24dBm
4. 11dBm + 10log (5725.00 - 5648.56) = 29.83 > 24dBm

**Chain 1**

1. 11dBm + 10log (82.93) = 30.18 > 24dBm
2. 11dBm + 10log (82.93) = 30.18 > 24dBm
3. 11dBm + 10log (82.82) = 30.18 > 24dBm
4. 11dBm + 10log (5725.00 - 5648.36) = 29.84 > 24dBm

**Chain 2**

1. 11dBm + 10log (83.28) = 30.20 > 24dBm
2. 11dBm + 10log (83.07) = 30.19 > 24dBm
3. 11dBm + 10log (83.35) = 30.20 > 24dBm
4. 11dBm + 10log (5725.00 - 5648.50) = 29.84 > 24dBm

**Chain 3**

1. 11dBm + 10log (83.04) = 30.19 > 24dBm
2. 11dBm + 10log (83.34) = 30.20 > 24dBm
3. 11dBm + 10log (83.31) = 30.20 > 24dBm
4. 11dBm + 10log (5725.00 - 5648.65) = 29.83 > 24dBm

802.11ax (HE160)

Chan.	Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
50	5250 (For U-NII-1)	11.71	11.88	12.00	10.77	68.288	18.34	29.75	Pass
50	5250 (For U-NII-2A)	11.37	11.38	11.70	10.59	63.186	18.01	23.74	Pass
114	5570	15.69	15.89	15.61	15.50	147.756	21.70	23.88	Pass

Note:

1. 5180-5250MHz: Directional gain = 6.25dBi > 6dBi, so the power limit shall be reduced to  $30 - (6.25 - 6) = 29.75\text{dBm}$ .
2. 5250-5320MHz: Directional gain = 6.26dBi > 6dBi, so the power limit shall be reduced to  $24 - (6.26 - 6) = 23.74\text{dBm}$ .
3. 5500-5720MHz: Directional gain = 6.12dBi > 6dBi, so the power limit shall be reduced to  $24 - (6.12 - 6) = 23.88\text{dBm}$ .

For U-NII-1A, U-NII-2A Band:

Chain 0

1.  $11\text{dBm} + 10\log(83.58) = 30.22 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(168.16) = 33.25 > 24\text{dBm}$

Chain 1

1.  $11\text{dBm} + 10\log(83.93) = 30.23 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(168.12) = 33.25 > 24\text{dBm}$

Chain 2

1.  $11\text{dBm} + 10\log(83.90) = 30.23 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(168.43) = 33.26 > 24\text{dBm}$

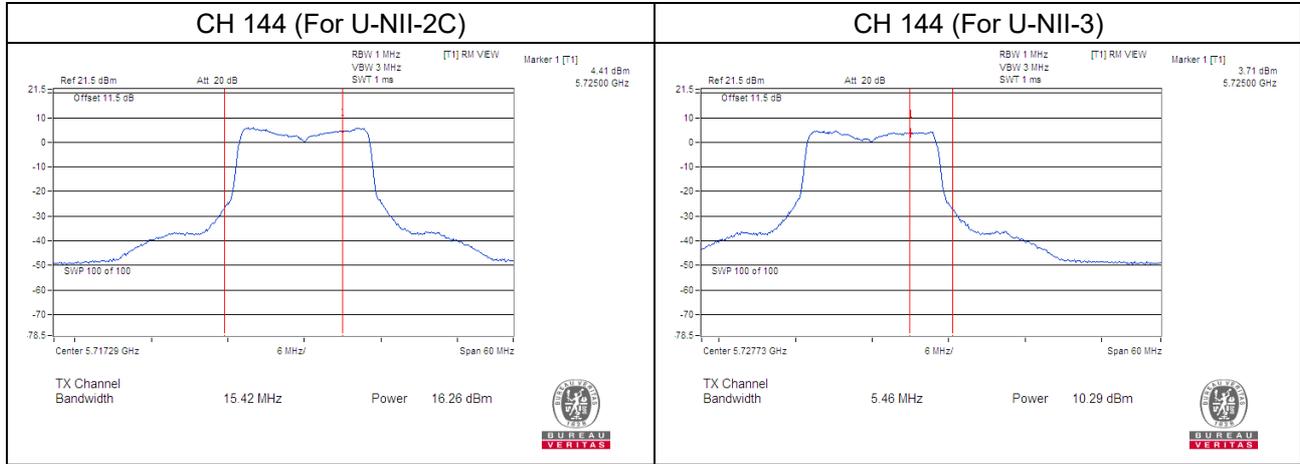
Chain 3

1.  $11\text{dBm} + 10\log(83.74) = 30.22 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(168.36) = 33.26 > 24\text{dBm}$

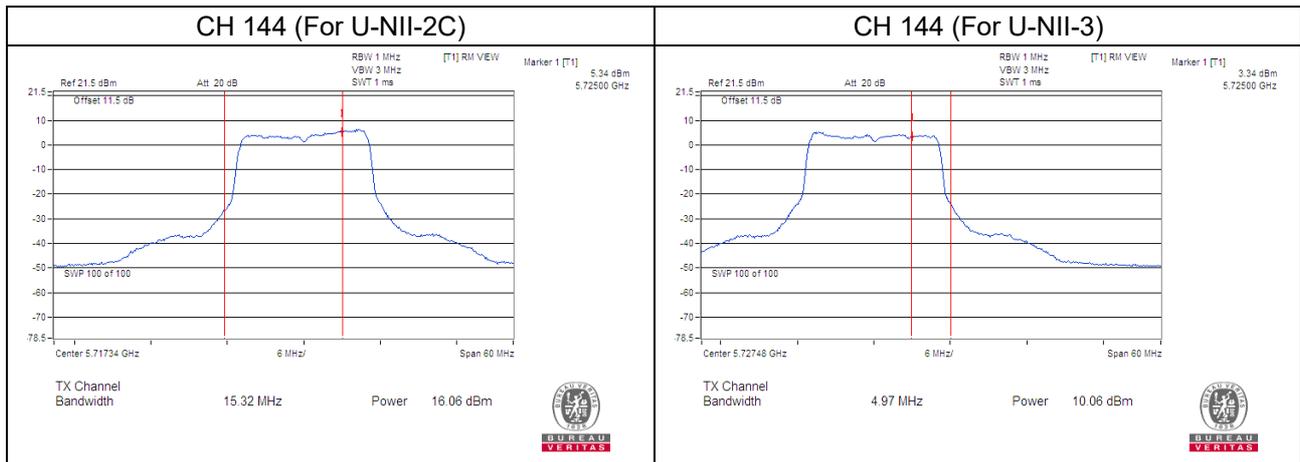
### Straddle channel power plots:

802.11a

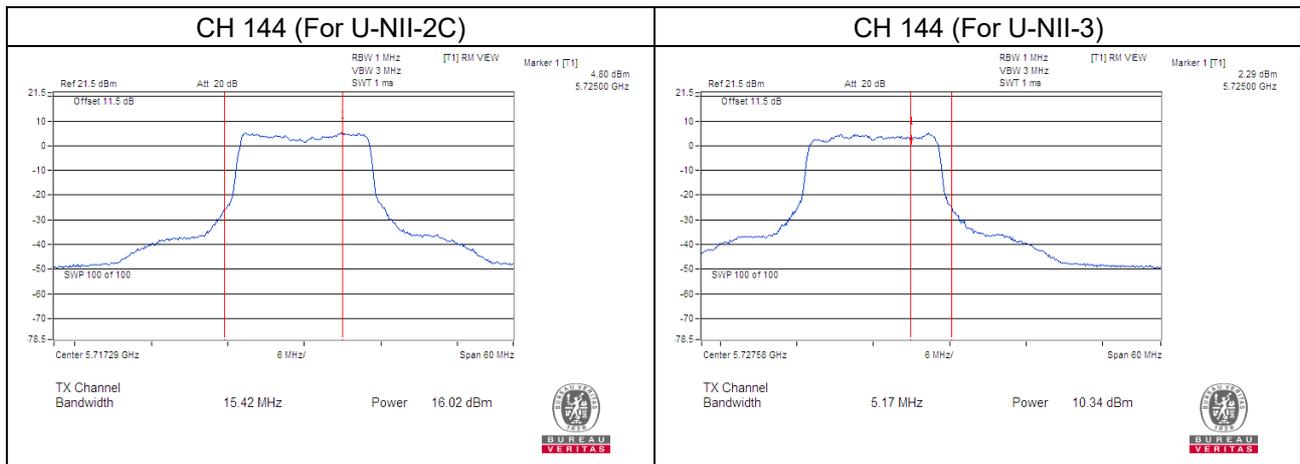
Chain 0



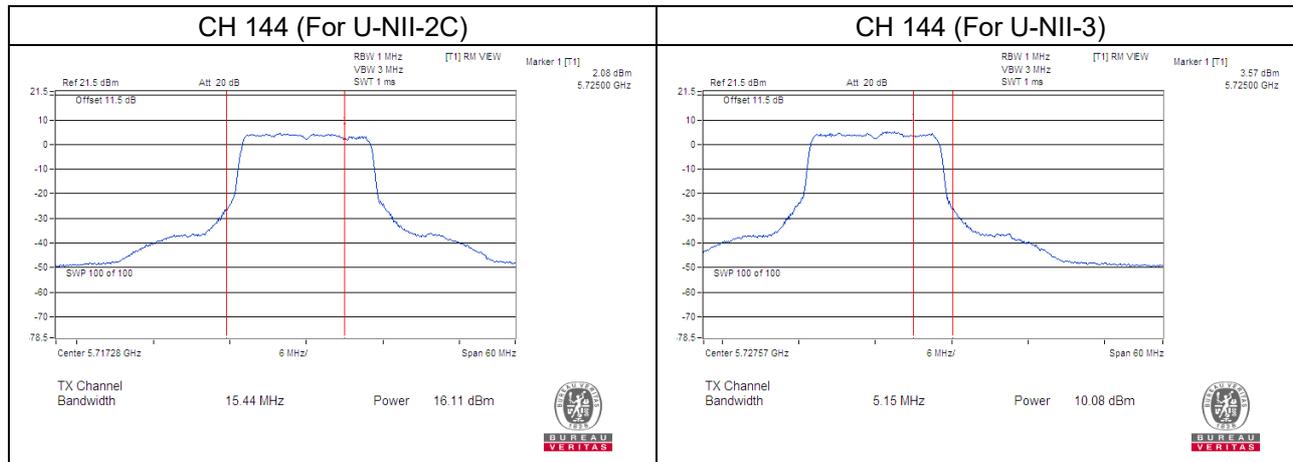
Chain 1



Chain 2

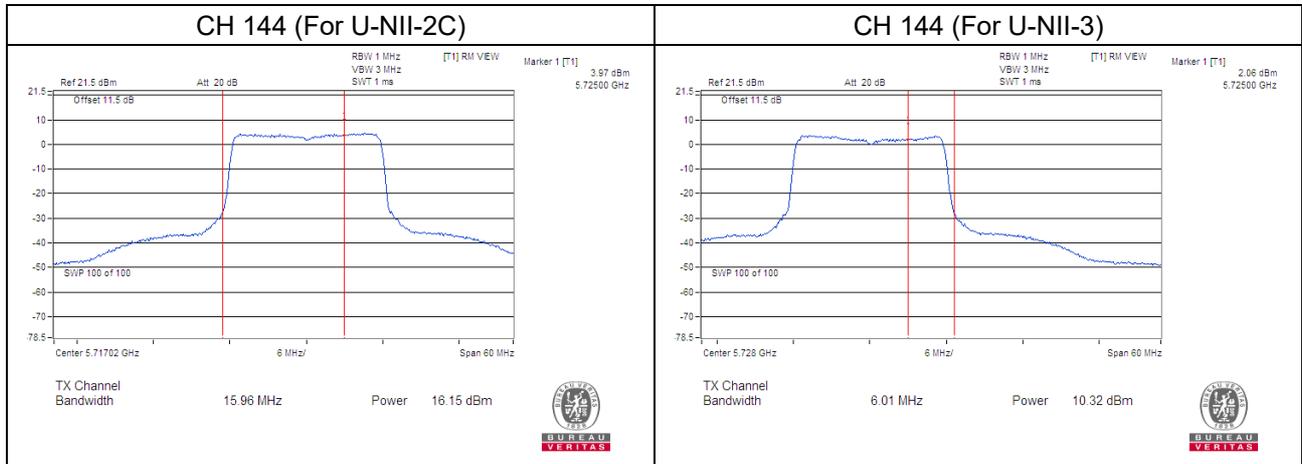


Chain 3

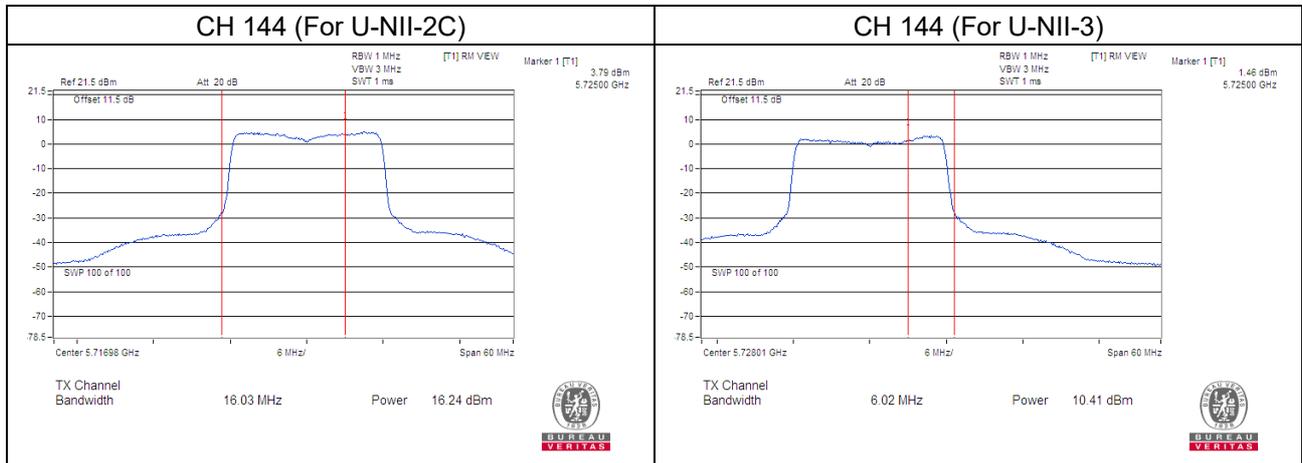


## 802.11ax (HE20)

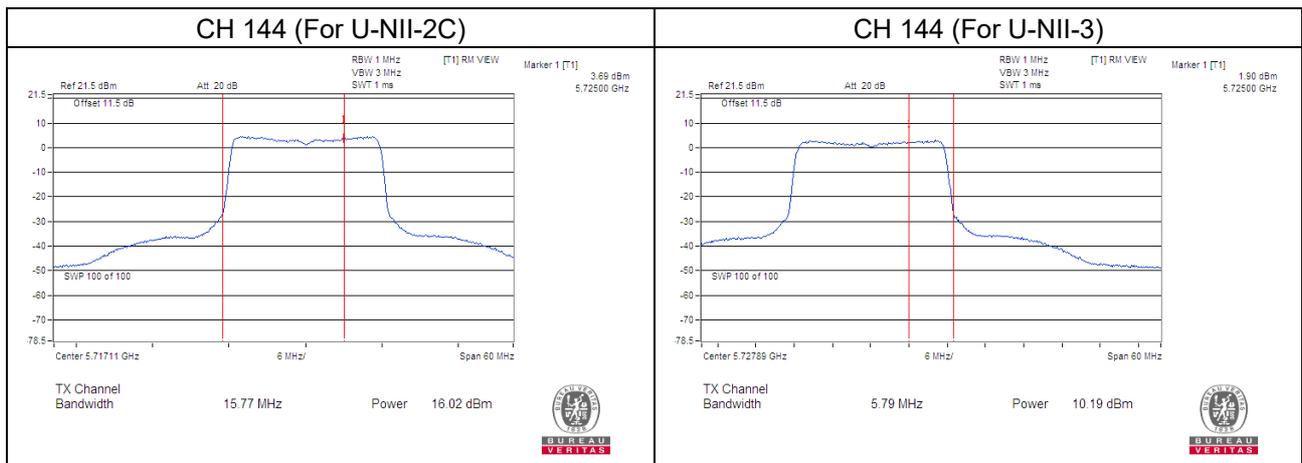
### Chain 0



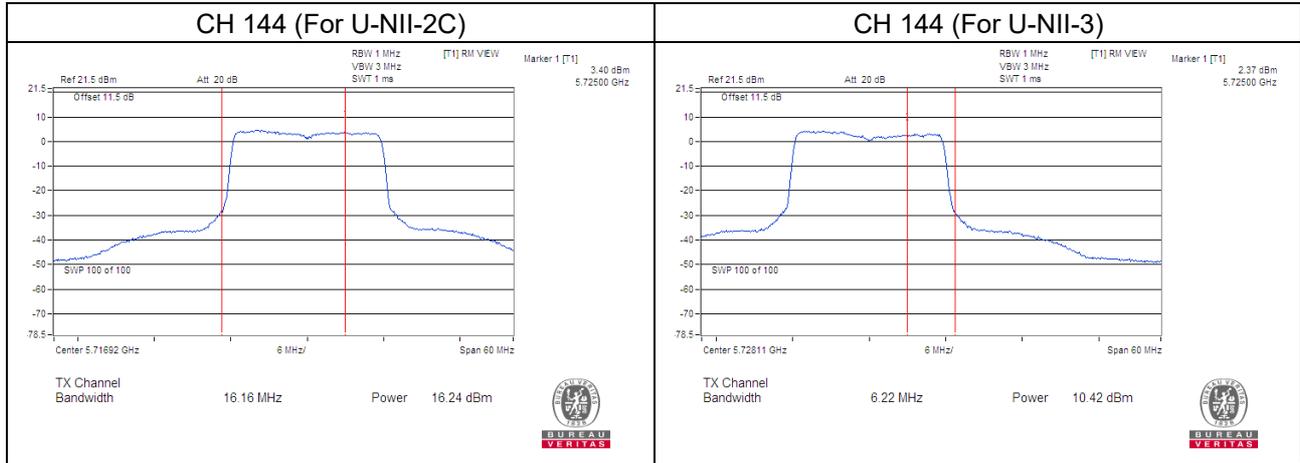
### Chain 1



### Chain 2

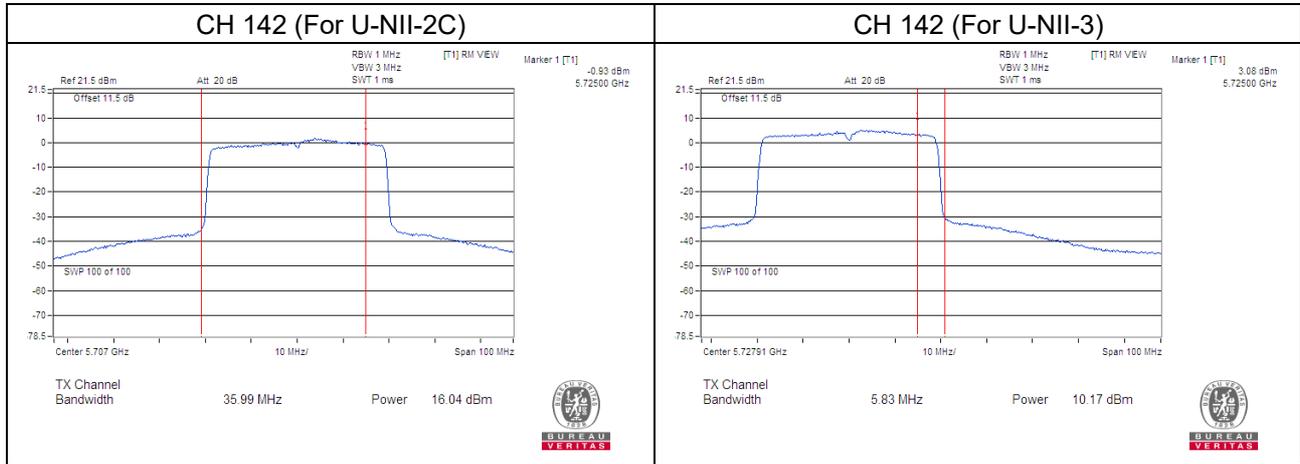


Chain 3

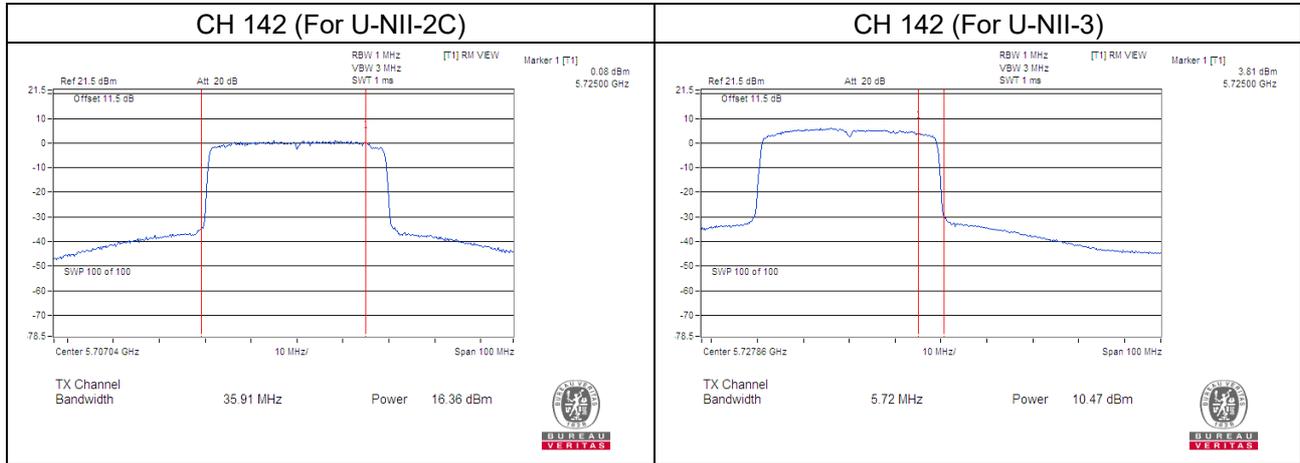


### 802.11ax (HE40)

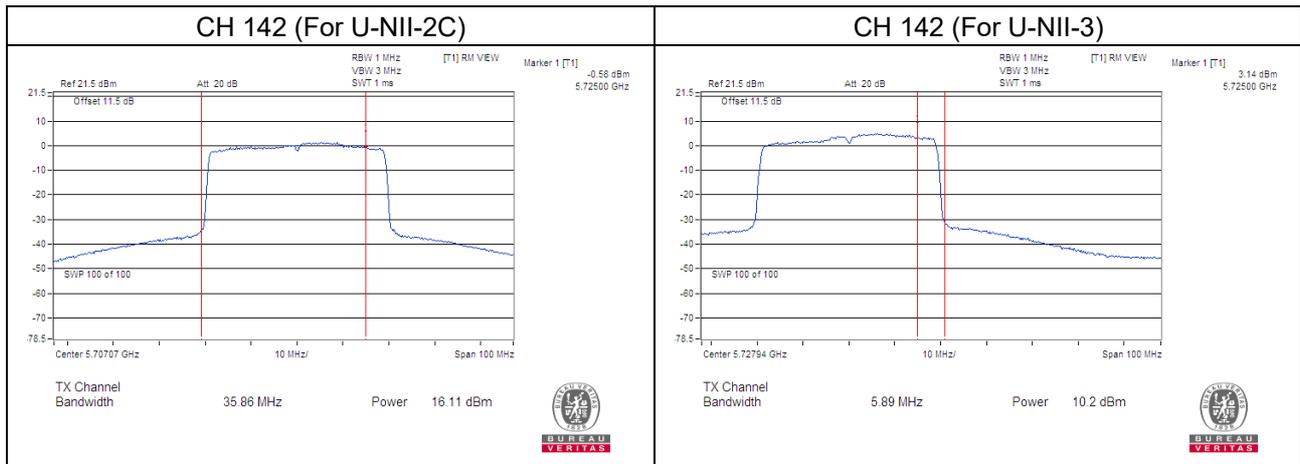
#### Chain 0



#### Chain 1

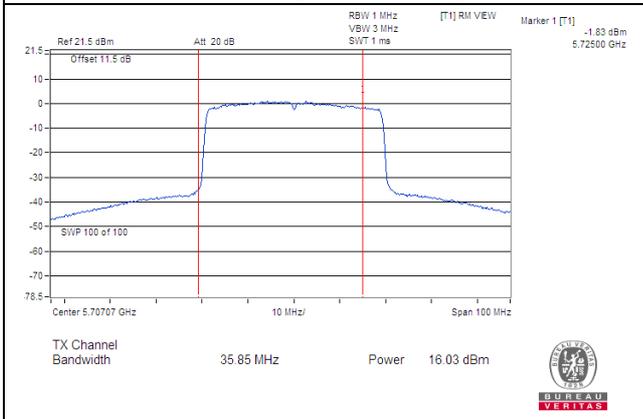


#### Chain 2

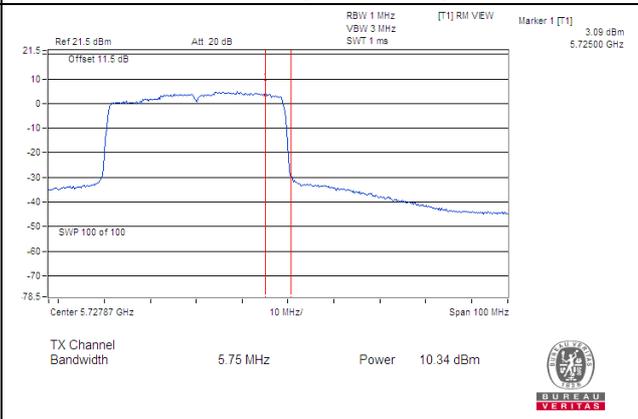


Chain 3

CH 142 (For U-NII-2C)

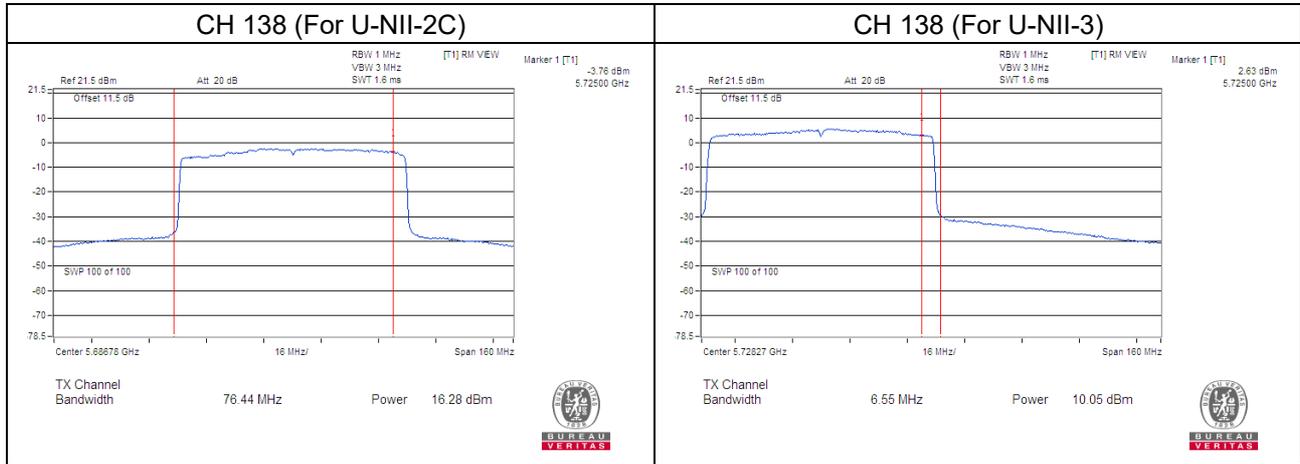


CH 142 (For U-NII-3)

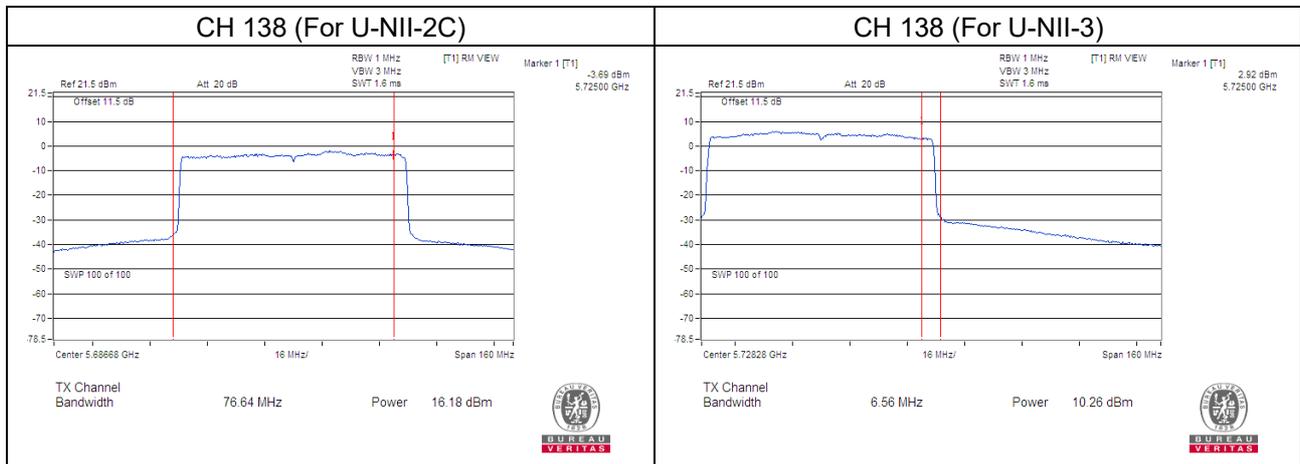


### 802.11ax (HE80)

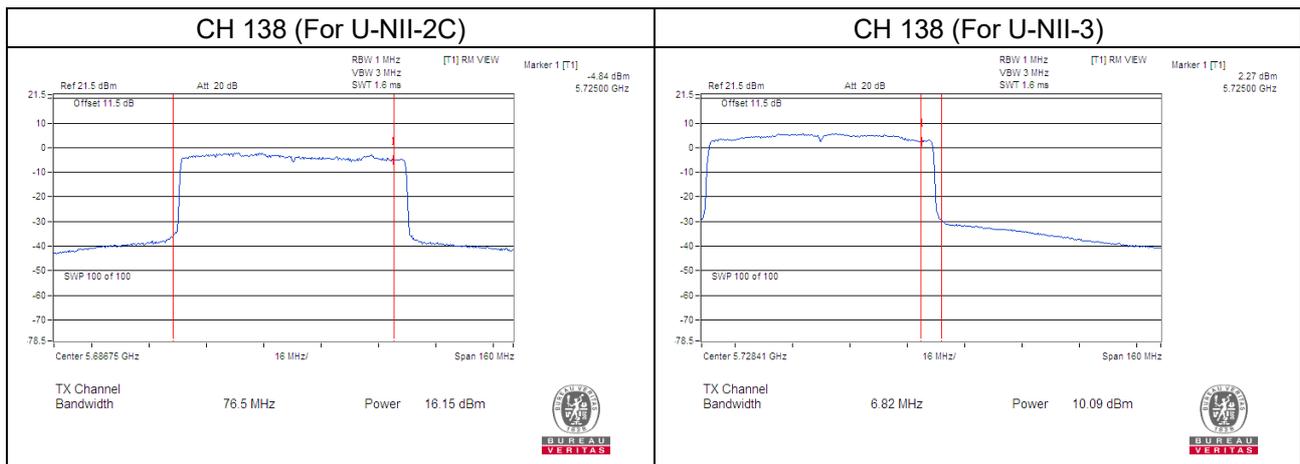
#### Chain 0



#### Chain 1

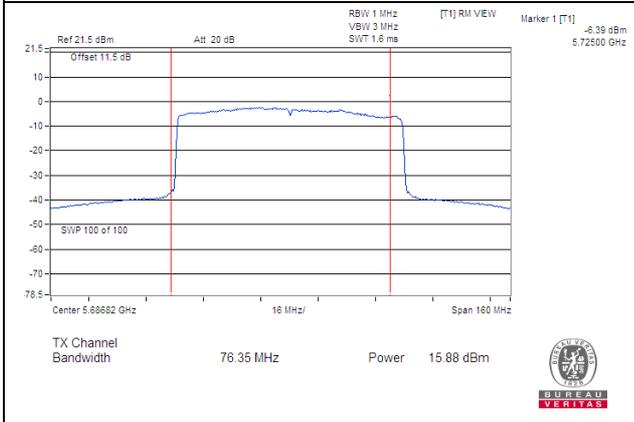


#### Chain 2

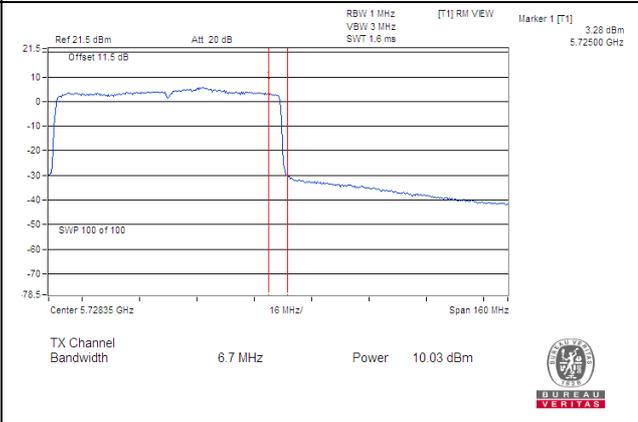


Chain 3

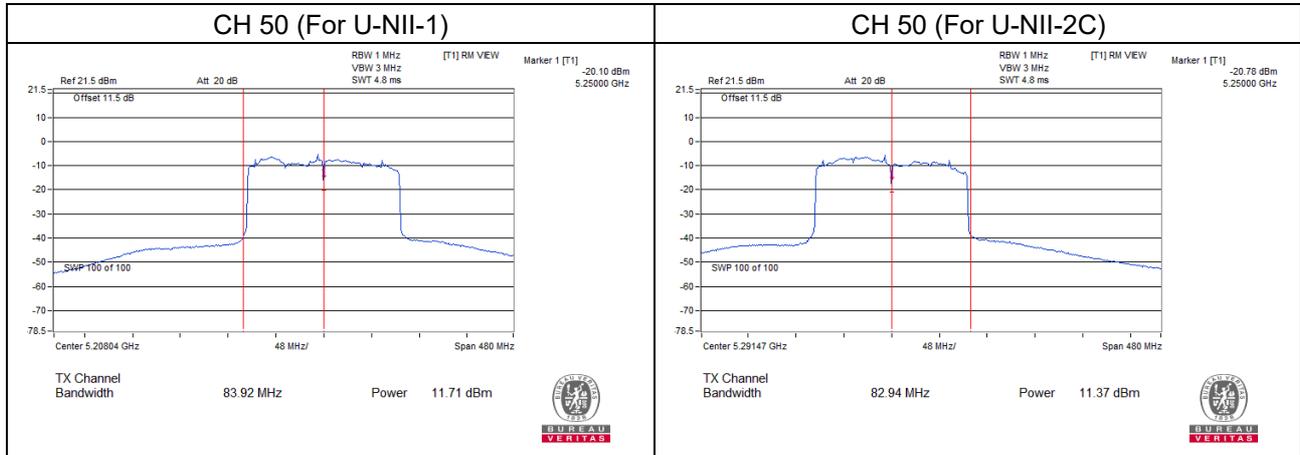
CH 138 (For U-NII-2C)



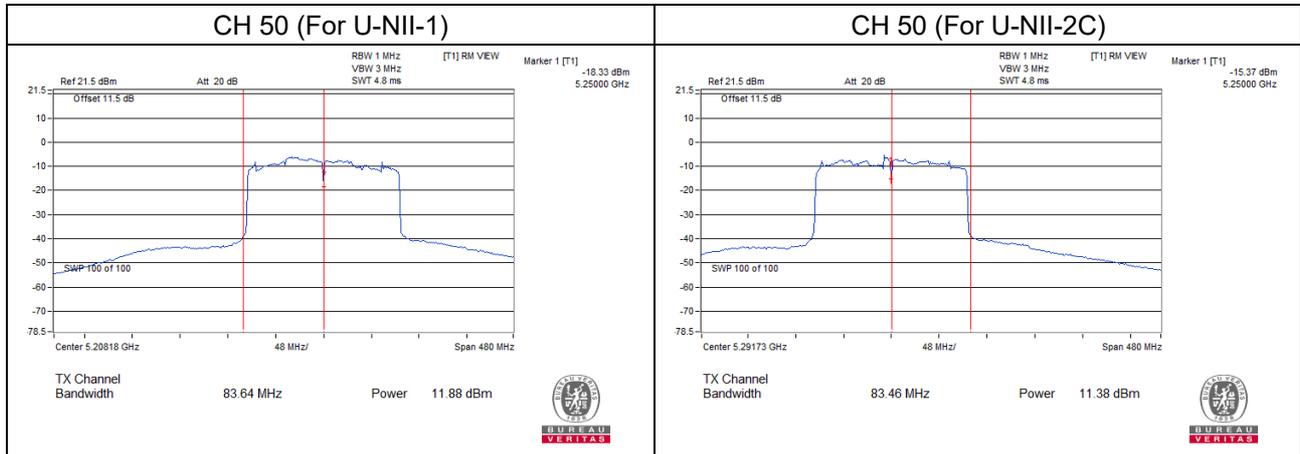
CH 138 (For U-NII-3)



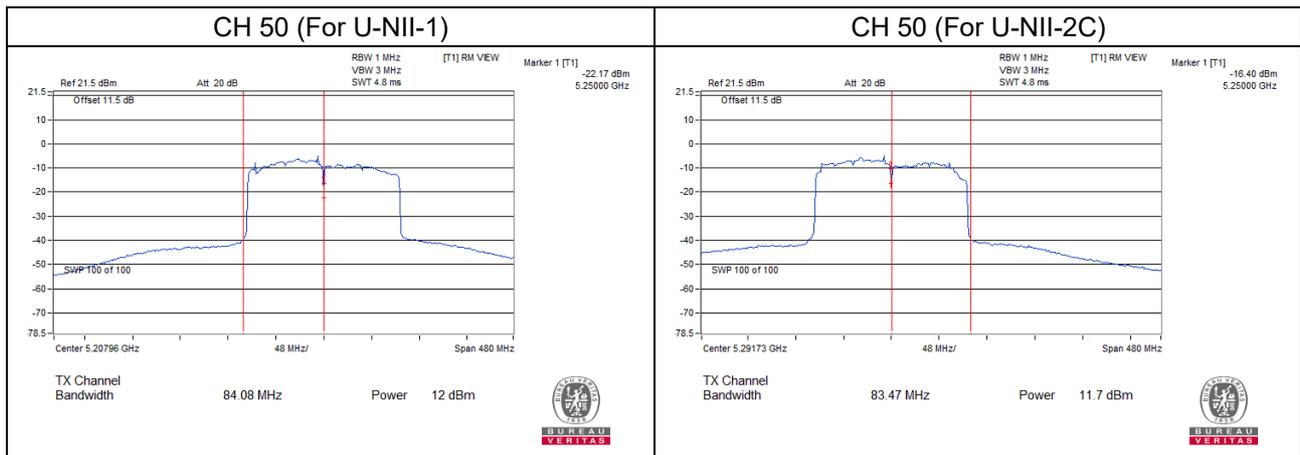
802.11ax (HE160)  
Chain 0



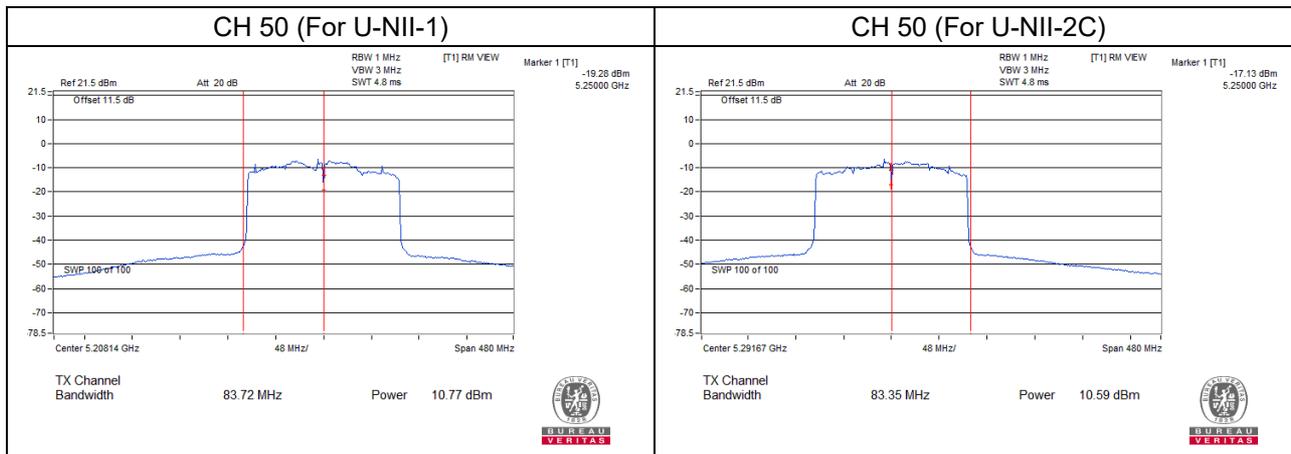
Chain 1



Chain 2



Chain 3



26dB Bandwidth:

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	20.44	20.61	20.85	20.39
60	5300	20.58	20.55	20.56	20.46
64	5320	20.54	20.45	20.55	20.57
100	5500	20.53	20.60	20.56	20.70
116	5580	20.75	20.54	20.55	20.43
140	5700	20.69	20.52	20.38	20.95
144	5720 (For U-NII-2C)	15.42	15.32	15.42	15.44
144	5720 (For U-NII-3)	5.46	4.97	5.17	5.15

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

For CH144 (U-NII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	22.34	22.03	21.95	22.13
60	5300	22.19	22.16	22.12	21.95
64	5320	22.25	22.41	22.33	22.12
100	5500	22.01	21.9	22.23	22.24
116	5580	22.11	22.09	21.99	22.45
140	5700	22.13	22.1	21.96	22.38
144	5720 (For U-NII-2C)	15.96	16.03	15.77	16.16
144	5720 (For U-NII-3)	6.01	6.02	5.79	6.22

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

For CH144 (U-NII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

### 802.11ax (HE40)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
54	5270	41.91	41.70	41.51	41.65
62	5310	41.69	41.63	41.84	41.82
102	5510	41.72	41.80	41.81	41.69
110	5550	41.97	41.65	41.93	41.74
134	5670	41.77	41.83	41.87	41.57
142	5710 (For U-NII-2C)	35.99	35.91	35.86	35.85
142	5710 (For U-NII-3)	5.83	5.72	5.89	5.75

For CH142 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

For CH142 (U-NII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

### 802.11ax (HE80)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	82.87	82.93	83.28	83.04
106	5530	83.59	82.93	83.07	83.34
122	5610	83.22	82.82	83.35	83.31
138	5690 (For U-NII-2C)	76.44	76.64	76.50	76.35
138	5690 (For U-NII-3)	6.55	6.56	6.82	6.70

For CH138 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

For CH138 (U-NII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

### 802.11ax (HE160)

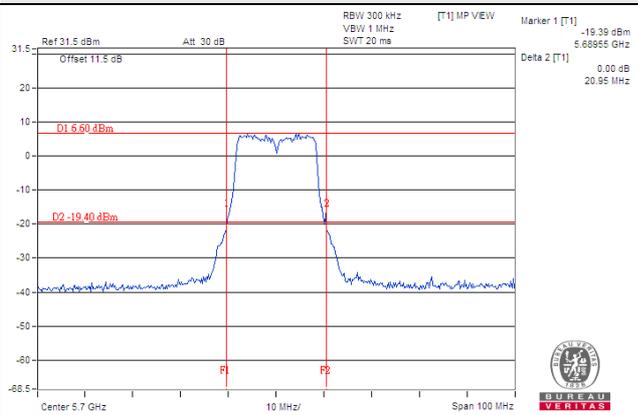
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50	5250 (For U-NII-1)	83.82	83.86	84.77	83.86
50	5250 (For U-NII-2A)	83.58	83.93	83.9	83.74
114	5570	168.16	168.12	168.43	168.36

For CH50 (U-NII-1 Band): The 26dBc bandwidth below 5250MHz = 5250MHz - Marker 1

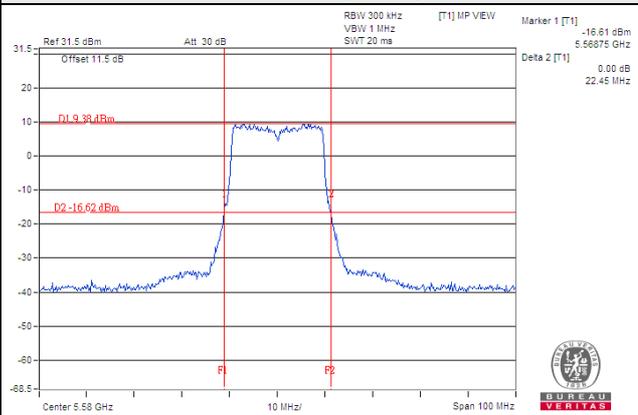
For CH50 (U-NII-2A Band): The 26dBc bandwidth above 5250MHz = Marker 1 + Delta 2 - 5250MHz

### Spectrum Plot of Worst Value

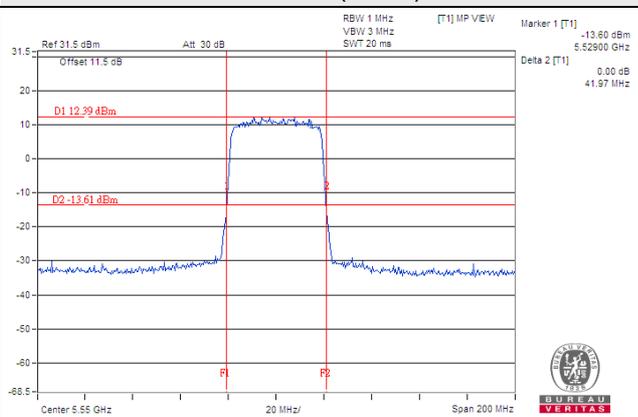
#### 802.11a



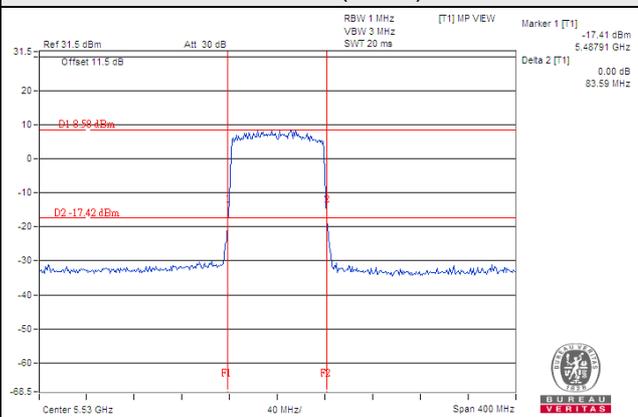
#### 802.11ax (HE20)



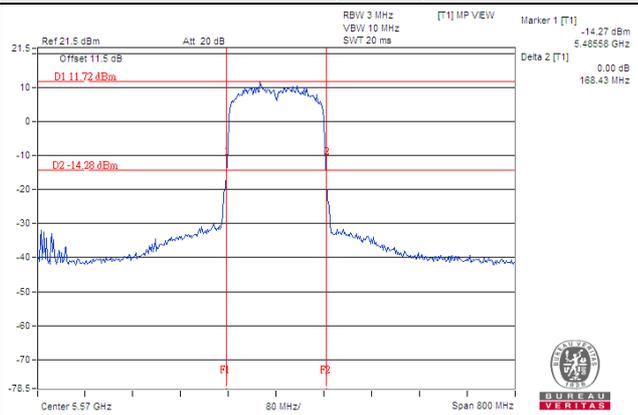
#### 802.11ax (HE40)



#### 802.11ax (HE80)



#### 802.11ax (HE160)



## EUT Average Power

CDD Mode

### 802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	23.12	204.889
5470~5725	23.28	212.760

### 802.11ax (HE20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	23.24	210.755
5470~5725	23.27	212.093

### 802.11ax (HE40)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	23.20	209.147
5470~5725	23.26	211.745

### 802.11ax (HE80)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	23.06	202.361
5470~5725	23.21	209.300

### 802.11ax (HE160)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	15.04	31.952
5470~5725	21.70	147.756

## Beamforming Mode

### 802.11ax (HE20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	23.24	210.755
5470~5725	23.27	212.093

### 802.11ax (HE40)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	23.20	209.147
5470~5725	23.26	211.745

### 802.11ax (HE80)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	23.06	202.361
5470~5725	23.21	209.300

### 802.11ax (HE160)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	15.04	31.952
5470~5725	21.70	147.756

2TX (WAX620E)

Power Output:

CDD Mode

802.11a

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
36	5180	21.44	21.26	272.975	24.36	30.00	Pass
40	5200	24.53	24.28	<b>551.709</b>	27.42	30.00	Pass
48	5240	23.72	23.53	460.929	26.64	30.00	Pass
52	5260	20.19	20.13	207.511	23.17	24.00	Pass
60	5300	20.16	20.04	204.678	23.11	24.00	Pass
64	5320	20.27	20.08	208.273	23.19	24.00	Pass
100	5500	20.39	19.93	207.797	23.18	24.00	Pass
116	5580	20.41	19.94	208.529	23.19	24.00	Pass
140	5700	19.62	19.39	178.518	22.52	24.00	Pass
144	5720 (For U-NII-2C)	19.40	19.11	168.567	22.27	22.90	Pass
144	5720 (For U-NII-3)	13.43	13.41	43.957	16.43	30.00	Pass
149	5745	26.18	26.17	<b>828.954</b>	29.19	30.00	Pass
157	5785	26.05	26.02	802.662	29.05	30.00	Pass
165	5825	26.06	26.06	807.291	29.07	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 2

1.  $11\text{dBm} + 10\log(20.95) = 24.21 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(20.98) = 24.21 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(20.90) = 24.20 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(21.24) = 24.27 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(21.15) = 24.25 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(20.95) = 24.21 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5709.50) = 22.90 < 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(20.92) = 24.20 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(20.94) = 24.20 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(21.00) = 24.22 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(21.11) = 24.24 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(21.11) = 24.24 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(21.12) = 24.24 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5709.49) = 22.90 < 24\text{dBm}$

802.11ac (VHT20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
36	5180	21.48	21.45	280.242	24.48	30.00	Pass
40	5200	23.72	23.18	443.475	26.47	30.00	Pass
48	5240	23.32	23.16	421.797	26.25	30.00	Pass
52	5260	20.26	20.09	208.264	23.19	24.00	Pass
60	5300	20.26	20.17	210.162	23.23	24.00	Pass
64	5320	20.13	20.01	203.269	23.08	24.00	Pass
100	5500	19.80	19.44	183.402	22.63	24.00	Pass
116	5580	20.16	20.08	205.612	23.13	24.00	Pass
140	5700	20.03	19.97	200.005	23.01	24.00	Pass
144	5720 (For U-NII-2C)	19.10	19.15	163.507	22.14	23.06	Pass
144	5720 (For U-NII-3)	13.48	13.33	43.812	16.42	30.00	Pass
149	5745	26.20	26.04	818.66	29.13	30.00	Pass
157	5785	26.03	26.11	809.186	29.08	30.00	Pass
165	5825	26.13	26.14	821.354	29.15	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 2

1.  $11\text{dBm} + 10\log(21.81) = 24.38 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.21) = 24.46 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.25) = 24.47 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.22) = 24.46 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.32) = 24.48 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.34) = 24.49 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5708.89) = 23.07 < 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(22.21) = 24.46 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.49) = 24.51 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(21.98) = 24.42 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.29) = 24.48 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.31) = 24.48 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.42) = 24.50 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5708.93) = 23.06 < 24\text{dBm}$

802.11ac (VHT40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
38	5190	20.27	20.22	211.610	23.26	30.00	Pass
46	5230	23.43	23.29	433.597	26.37	30.00	Pass
54	5270	20.33	20.02	208.356	23.19	24.00	Pass
62	5310	20.08	19.97	201.171	23.04	24.00	Pass
102	5510	18.92	18.84	154.543	21.89	24.00	Pass
110	5550	20.13	20.01	203.269	23.08	24.00	Pass
134	5670	19.55	19.15	172.381	22.36	24.00	Pass
142	5710 (For U-NII-2C)	19.10	19.11	162.753	22.12	24.00	Pass
142	5710 (For U-NII-3)	13.41	13.45	44.059	16.44	30.00	Pass
151	5755	26.22	25.90	807.839	29.07	30.00	Pass
159	5795	26.06	26.08	809.154	29.08	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 2

1.  $11\text{dBm} + 10\log(41.79) = 27.21 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.62) = 27.19 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.92) = 27.22 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.98) = 27.23 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.85) = 27.21 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.10) = 26.55 > 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(41.67) = 27.19 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.70) = 27.20 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.86) = 27.21 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.93) = 27.22 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.76) = 27.20 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.18) = 26.54 > 24\text{dBm}$

802.11ac (VHT80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
42	5210	19.14	19.02	161.835	22.09	30.00	Pass
58	5290	18.76	18.71	149.464	21.75	24.00	Pass
106	5530	18.70	18.22	140.505	21.48	24.00	Pass
122	5610	20.35	20.04	209.318	23.21	24.00	Pass
138	5690 (For U-NII-2C)	19.21	19.35	169.467	22.29	24.00	Pass
138	5690 (For U-NII-3)	13.15	13.23	41.692	16.20	30.00	Pass
155	5775	23.21	23.15	415.949	26.19	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 2

- $11\text{dBm} + 10\log(83.04) = 30.19 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.33) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.41) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5648.33) = 29.85 > 24\text{dBm}$

Chain 3

- $11\text{dBm} + 10\log(83.14) = 30.19 > 24\text{dBm}$
- $11\text{dBm} + 10\log(82.82) = 30.18 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.70) = 30.22 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5648.58) = 29.83 > 24\text{dBm}$

802.11ac (VHT160)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
50	5250 (For U-NII-1)	14.38	14.20	58.508	17.67	30.00	Pass
50	5250 (For U-NII-2A)	14.16	14.11	56.445	17.52	24.00	Pass
114	5570	18.01	17.82	123.775	20.93	24.00	Pass

Note:

For U-NII-1A, U-NII-2A Band:

Chain 2

- $11\text{dBm} + 10\log(83.56) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(167.88) = 33.24 > 24\text{dBm}$

Chain 3

- $11\text{dBm} + 10\log(83.39) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.25) = 33.28 > 24\text{dBm}$

802.11ax (HE20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
36	5180	21.49	21.48	281.534	24.50	30.00	Pass
40	5200	24.07	23.98	505.305	27.04	30.00	Pass
48	5240	23.35	23.18	424.242	26.28	30.00	Pass
52	5260	20.27	20.15	209.929	23.22	24.00	Pass
60	5300	20.30	20.23	<b>212.591</b>	23.28	24.00	Pass
64	5320	20.16	20.04	204.678	23.11	24.00	Pass
100	5500	19.82	19.43	183.640	22.64	24.00	Pass
116	5580	20.21	20.16	208.707	23.20	24.00	Pass
140	5700	20.05	19.96	200.241	23.02	24.00	Pass
144	5720 (For U-NII-2C)	19.12	19.17	164.262	22.16	23.06	Pass
144	5720 (For U-NII-3)	13.51	13.36	44.116	16.45	30.00	Pass
149	5745	26.26	26.08	828.177	29.18	30.00	Pass
157	5785	26.11	26.13	818.523	29.13	30.00	Pass
165	5825	26.15	26.18	827.052	29.18	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 2

1.  $11\text{dBm} + 10\log(21.81) = 24.38 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.21) = 24.46 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.25) = 24.47 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.22) = 24.46 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.32) = 24.48 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.34) = 24.49 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5708.89) = 23.07 < 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(22.21) = 24.46 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.49) = 24.51 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(21.98) = 24.42 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.29) = 24.48 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.31) = 24.48 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.42) = 24.50 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5708.93) = 23.06 < 24\text{dBm}$

### 802.11ax (HE40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
38	5190	20.30	20.23	212.591	23.28	30.00	Pass
46	5230	23.48	23.33	438.122	26.42	30.00	Pass
54	5270	20.38	20.08	211.003	23.24	24.00	Pass
62	5310	20.14	19.95	202.131	23.06	24.00	Pass
102	5510	18.95	18.87	155.614	21.92	24.00	Pass
110	5550	20.20	20.04	205.638	23.13	24.00	Pass
134	5670	19.57	19.17	173.177	22.38	24.00	Pass
142	5710 (For U-NII-2C)	19.13	19.13	163.693	22.14	24.00	Pass
142	5710 (For U-NII-3)	13.42	13.47	44.212	16.46	30.00	Pass
151	5755	26.24	25.95	814.277	29.11	30.00	Pass
159	5795	26.08	26.13	815.713	29.12	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 2

1.  $11\text{dBm} + 10\log(41.79) = 27.21 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.62) = 27.19 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.92) = 27.22 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.98) = 27.23 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.85) = 27.21 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.10) = 26.55 > 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(41.67) = 27.19 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(41.70) = 27.20 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(41.86) = 27.21 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(41.93) = 27.22 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(41.76) = 27.20 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(5725.00 - 5689.18) = 26.54 > 24\text{dBm}$

### 802.11ax (HE80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
42	5210	19.25	19.01	163.755	22.14	30.00	Pass
58	5290	18.78	18.75	150.499	21.78	24.00	Pass
106	5530	18.71	18.24	140.983	21.49	24.00	Pass
122	5610	20.38	20.12	<b>211.946</b>	23.26	24.00	Pass
138	5690 (For U-NII-2C)	19.25	19.37	170.636	22.32	24.00	Pass
138	5690 (For U-NII-3)	13.17	13.26	41.933	16.23	30.00	Pass
155	5775	23.23	23.18	418.348	26.22	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 2

- $11\text{dBm} + 10\log(83.04) = 30.19 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.33) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.41) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5648.33) = 29.85 > 24\text{dBm}$

Chain 3

- $11\text{dBm} + 10\log(83.14) = 30.19 > 24\text{dBm}$
- $11\text{dBm} + 10\log(82.82) = 30.18 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.70) = 30.22 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5648.58) = 29.83 > 24\text{dBm}$

### 802.11ax (HE160)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
50	5250 (For U-NII-1)	14.41	14.22	58.847	17.70	30.00	Pass
50	5250 (For U-NII-2A)	14.18	14.12	56.641	17.53	24.00	Pass
114	5570	18.06	17.88	125.350	20.98	24.00	Pass

Note:

For U-NII-1A, U-NII-2A Band:

Chain 2

- $11\text{dBm} + 10\log(83.56) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(167.88) = 33.24 > 24\text{dBm}$

Chain 3

- $11\text{dBm} + 10\log(83.39) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.25) = 33.28 > 24\text{dBm}$

Beamforming Mode

802.11ac (VHT20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
36	5180	21.48	21.45	280.242	24.48	30.00	Pass
40	5200	23.72	23.18	443.475	26.47	30.00	Pass
48	5240	23.32	23.16	421.797	26.25	30.00	Pass
52	5260	20.26	20.09	208.264	23.19	24.00	Pass
60	5300	20.26	20.17	210.162	23.23	24.00	Pass
64	5320	20.13	20.01	203.269	23.08	24.00	Pass
100	5500	19.80	19.44	183.402	22.63	24.00	Pass
116	5580	20.16	20.08	205.612	23.13	24.00	Pass
140	5700	20.03	19.97	200.005	23.01	24.00	Pass
144	5720 (For U-NII-2C)	19.10	19.15	163.507	22.14	23.06	Pass
144	5720 (For U-NII-3)	13.48	13.33	43.812	16.42	30.00	Pass
149	5745	26.20	26.04	818.660	29.13	30.00	Pass
157	5785	26.03	26.11	809.186	29.08	30.00	Pass
165	5825	26.13	26.14	821.354	29.15	30.00	Pass

Note:

1. 5180-5250MHz: Directional gain = 4.42dBi < 6dBi, so the power limit not need to reduce.
2. 5250-5320MHz: Directional gain = 4.38dBi < 6dBi, so the power limit not need to reduce.
3. 5500-5720MHz: Directional gain = 4.17dBi < 6dBi, so the power limit not need to reduce.
4. 5745-5825MHz: Directional gain = 4.11dBi < 6dBi, so the power limit not need to reduce.

For U-NII-2A, U-NII-2C Band:

Chain 2

1.  $11\text{dBm} + 10\log(21.81) = 24.38 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.21) = 24.46 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.25) = 24.47 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.22) = 24.46 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.32) = 24.48 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.34) = 24.49 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5708.89) = 23.07 < 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(22.21) = 24.46 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.49) = 24.51 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(21.98) = 24.42 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.29) = 24.48 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.31) = 24.48 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.42) = 24.50 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5708.93) = 23.06 < 24\text{dBm}$

### 802.11ac (VHT40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
38	5190	20.27	20.22	211.610	23.26	30.00	Pass
46	5230	23.43	23.29	433.597	26.37	30.00	Pass
54	5270	20.33	20.02	208.356	23.19	24.00	Pass
62	5310	20.08	19.97	201.171	23.04	24.00	Pass
102	5510	18.92	18.84	154.543	21.89	24.00	Pass
110	5550	20.13	20.01	203.269	23.08	24.00	Pass
134	5670	19.55	19.15	172.381	22.36	24.00	Pass
142	5710 (For U-NII-2C)	19.10	19.11	162.753	22.12	24.00	Pass
142	5710 (For U-NII-3)	13.41	13.45	44.059	16.44	30.00	Pass
151	5755	26.22	25.90	807.839	29.07	30.00	Pass
159	5795	26.06	26.08	809.154	29.08	30.00	Pass

**Note:**

1. 5180-5250MHz: Directional gain = 4.42dBi < 6dBi, so the power limit not need to reduce.
2. 5250-5320MHz: Directional gain = 4.38dBi < 6dBi, so the power limit not need to reduce.
3. 5500-5720MHz: Directional gain = 4.17dBi < 6dBi, so the power limit not need to reduce.
4. 5745-5825MHz: Directional gain = 4.11dBi < 6dBi, so the power limit not need to reduce.

**For U-NII-2A, U-NII-2C Band:**

**Chain 2**

1. 11dBm + 10log (41.79) = 27.21 > 24dBm
2. 11dBm + 10log (41.62) = 27.19 > 24dBm
3. 11dBm + 10log (41.92) = 27.22 > 24dBm
4. 11dBm + 10log (41.98) = 27.23 > 24dBm
5. 11dBm + 10log (41.85) = 27.21 > 24dBm
6. 11dBm + 10log (5725.00 - 5689.10) = 26.55 > 24dBm

**Chain 3**

1. 11dBm + 10log (41.67) = 27.19 > 24dBm
2. 11dBm + 10log (41.70) = 27.20 > 24dBm
3. 11dBm + 10log (41.86) = 27.21 > 24dBm
4. 11dBm + 10log (41.93) = 27.22 > 24dBm
5. 11dBm + 10log (41.76) = 27.20 > 24dBm
6. 11dBm + 10log (5725.00 - 5689.18) = 26.54 > 24dBm

### 802.11ac (VHT80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
42	5210	19.14	19.02	161.835	22.09	30.00	Pass
58	5290	18.76	18.71	149.464	21.75	24.00	Pass
106	5530	18.70	18.22	140.505	21.48	24.00	Pass
122	5610	20.35	20.04	209.318	23.21	24.00	Pass
138	5690 (For U-NII-2C)	19.21	19.35	169.467	22.29	24.00	Pass
138	5690 (For U-NII-3)	13.15	13.23	41.692	16.20	30.00	Pass
155	5775	23.21	23.15	415.949	26.19	30.00	Pass

Note:

1. 5180-5250MHz: Directional gain = 4.42dBi < 6dBi, so the power limit not need to reduce.
2. 5250-5320MHz: Directional gain = 4.38dBi < 6dBi, so the power limit not need to reduce.
3. 5500-5720MHz: Directional gain = 4.17dBi < 6dBi, so the power limit not need to reduce.
4. 5745-5825MHz: Directional gain = 4.11dBi < 6dBi, so the power limit not need to reduce.

For U-NII-2A, U-NII-2C Band:

Chain 2

1.  $11\text{dBm} + 10\log(83.04) = 30.19 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(83.33) = 30.20 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(83.41) = 30.21 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(5725.00 - 5648.33) = 29.85 > 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(83.14) = 30.19 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(82.82) = 30.18 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(83.70) = 30.22 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(5725.00 - 5648.58) = 29.83 > 24\text{dBm}$

802.11ac (VHT160)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
50	5250 (For U-NII-1)	14.38	14.20	58.508	17.67	30.00	Pass
50	5250 (For U-NII-2A)	14.16	14.11	56.445	17.52	24.00	Pass
114	5570	18.01	17.82	123.775	20.93	24.00	Pass

Note:

1. 5180-5250MHz: Directional gain = 4.42dBi < 6dBi, so the power limit not need to reduce.
2. 5250-5320MHz: Directional gain = 4.38dBi < 6dBi, so the power limit not need to reduce.
3. 5500-5720MHz: Directional gain = 4.17dBi < 6dBi, so the power limit not need to reduce.

For U-NII-1A, U-NII-2A Band:

Chain 2

3.  $11\text{dBm} + 10\log(83.56) = 30.21 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(167.88) = 33.24 > 24\text{dBm}$

Chain 3

3.  $11\text{dBm} + 10\log(83.39) = 30.21 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(169.25) = 33.28 > 24\text{dBm}$

802.11ax (HE20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
36	5180	21.49	21.48	281.534	24.50	30.00	Pass
40	5200	24.07	23.98	<b>505.305</b>	27.04	30.00	Pass
48	5240	23.35	23.18	424.242	26.28	30.00	Pass
52	5260	20.27	20.15	209.929	23.22	24.00	Pass
60	5300	20.30	20.23	<b>212.591</b>	23.28	24.00	Pass
64	5320	20.16	20.04	204.678	23.11	24.00	Pass
100	5500	19.82	19.43	183.640	22.64	24.00	Pass
116	5580	20.21	20.16	208.707	23.20	24.00	Pass
140	5700	20.05	19.96	200.241	23.02	24.00	Pass
144	5720 (For U-NII-2C)	19.12	19.17	164.262	22.16	23.06	Pass
144	5720 (For U-NII-3)	13.51	13.36	44.116	16.45	30.00	Pass
149	5745	26.26	26.08	828.177	29.18	30.00	Pass
157	5785	26.11	26.13	818.523	29.13	30.00	Pass
165	5825	26.15	26.18	<b>827.052</b>	29.18	30.00	Pass

Note:

1. 5180-5250MHz: Directional gain = 4.42dBi < 6dBi, so the power limit not need to reduce.
2. 5250-5320MHz: Directional gain = 4.38dBi < 6dBi, so the power limit not need to reduce.
3. 5500-5720MHz: Directional gain = 4.17dBi < 6dBi, so the power limit not need to reduce.
4. 5745-5825MHz: Directional gain = 4.11dBi < 6dBi, so the power limit not need to reduce.

For U-NII-2A, U-NII-2C Band:

Chain 2

1.  $11\text{dBm} + 10\log(21.81) = 24.38 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.21) = 24.46 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(22.25) = 24.47 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.22) = 24.46 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.32) = 24.48 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.34) = 24.49 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5708.89) = 23.07 < 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(22.21) = 24.46 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(22.49) = 24.51 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(21.98) = 24.42 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(22.29) = 24.48 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(22.31) = 24.48 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(22.42) = 24.50 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5708.93) = 23.06 < 24\text{dBm}$

802.11ax (HE40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
38	5190	20.30	20.23	212.591	23.28	30.00	Pass
46	5230	23.48	23.33	438.122	26.42	30.00	Pass
54	5270	20.38	20.08	211.003	23.24	24.00	Pass
62	5310	20.14	19.95	202.131	23.06	24.00	Pass
102	5510	18.95	18.87	155.614	21.92	24.00	Pass
110	5550	20.20	20.04	205.638	23.13	24.00	Pass
134	5670	19.57	19.17	173.177	22.38	24.00	Pass
142	5710 (For U-NII-2C)	19.13	19.13	163.693	22.14	24.00	Pass
142	5710 (For U-NII-3)	13.42	13.47	44.212	16.46	30.00	Pass
151	5755	26.24	25.95	814.277	29.11	30.00	Pass
159	5795	26.08	26.13	815.713	29.12	30.00	Pass

Note:

1. 5180-5250MHz: Directional gain = 4.42dBi < 6dBi, so the power limit not need to reduce.
2. 5250-5320MHz: Directional gain = 4.38dBi < 6dBi, so the power limit not need to reduce.
3. 5500-5720MHz: Directional gain = 4.17dBi < 6dBi, so the power limit not need to reduce.
4. 5745-5825MHz: Directional gain = 4.11dBi < 6dBi, so the power limit not need to reduce.

For U-NII-2A, U-NII-2C Band:

Chain 2

1. 11dBm + 10log (41.79) = 27.21 > 24dBm
2. 11dBm + 10log (41.62) = 27.19 > 24dBm
3. 11dBm + 10log (41.92) = 27.22 > 24dBm
4. 11dBm + 10log (41.98) = 27.23 > 24dBm
5. 11dBm + 10log (41.85) = 27.21 > 24dBm
6. 11dBm + 10log (5725.00 - 5689.10) = 26.55 > 24dBm

Chain 3

1. 11dBm + 10log (41.67) = 27.19 > 24dBm
2. 11dBm + 10log (41.70) = 27.20 > 24dBm
3. 11dBm + 10log (41.86) = 27.21 > 24dBm
4. 11dBm + 10log (41.93) = 27.22 > 24dBm
5. 11dBm + 10log (41.76) = 27.20 > 24dBm
6. 11dBm + 10log (5725.00 - 5689.18) = 26.54 > 24dBm

802.11ax (HE80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
42	5210	19.25	19.01	163.755	22.14	30.00	Pass
58	5290	18.78	18.75	150.499	21.78	24.00	Pass
106	5530	18.71	18.24	140.983	21.49	24.00	Pass
122	5610	20.38	20.12	<b>211.946</b>	23.26	24.00	Pass
138	5690 (For U-NII-2C)	19.25	19.37	170.636	22.32	24.00	Pass
138	5690 (For U-NII-3)	13.17	13.26	41.933	16.23	30.00	Pass
155	5775	23.23	23.18	418.348	26.22	30.00	Pass

Note:

1. 5180-5250MHz: Directional gain = 4.42dBi < 6dBi, so the power limit not need to reduce.
2. 5250-5320MHz: Directional gain = 4.38dBi < 6dBi, so the power limit not need to reduce.
3. 5500-5720MHz: Directional gain = 4.17dBi < 6dBi, so the power limit not need to reduce.
4. 5745-5825MHz: Directional gain = 4.11dBi < 6dBi, so the power limit not need to reduce.

For U-NII-2A, U-NII-2C Band:

Chain 2

1.  $11\text{dBm} + 10\log(83.04) = 30.19 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(83.33) = 30.20 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(83.41) = 30.21 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(5725.00 - 5648.33) = 29.85 > 24\text{dBm}$

Chain 3

1.  $11\text{dBm} + 10\log(83.14) = 30.19 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(82.82) = 30.18 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(83.70) = 30.22 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(5725.00 - 5648.58) = 29.83 > 24\text{dBm}$

### 802.11ax (HE160)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 2	Chain 3				
50	5250 (For U-NII-1)	14.41	14.22	58.847	17.70	30.00	Pass
50	5250 (For U-NII-2A)	14.18	14.12	56.641	17.53	24.00	Pass
114	5570	18.06	17.88	125.350	20.98	24.00	Pass

**Note:**

1. 5180-5250MHz: Directional gain = 4.42dBi < 6dBi, so the power limit not need to reduce.
2. 5250-5320MHz: Directional gain = 4.38dBi < 6dBi, so the power limit not need to reduce.
3. 5500-5720MHz: Directional gain = 4.17dBi < 6dBi, so the power limit not need to reduce.

For U-NII-1A, U-NII-2A Band:

Chain 2

1.  $11\text{dBm} + 10\log(83.56) = 30.21 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(167.88) = 33.24 > 24\text{dBm}$

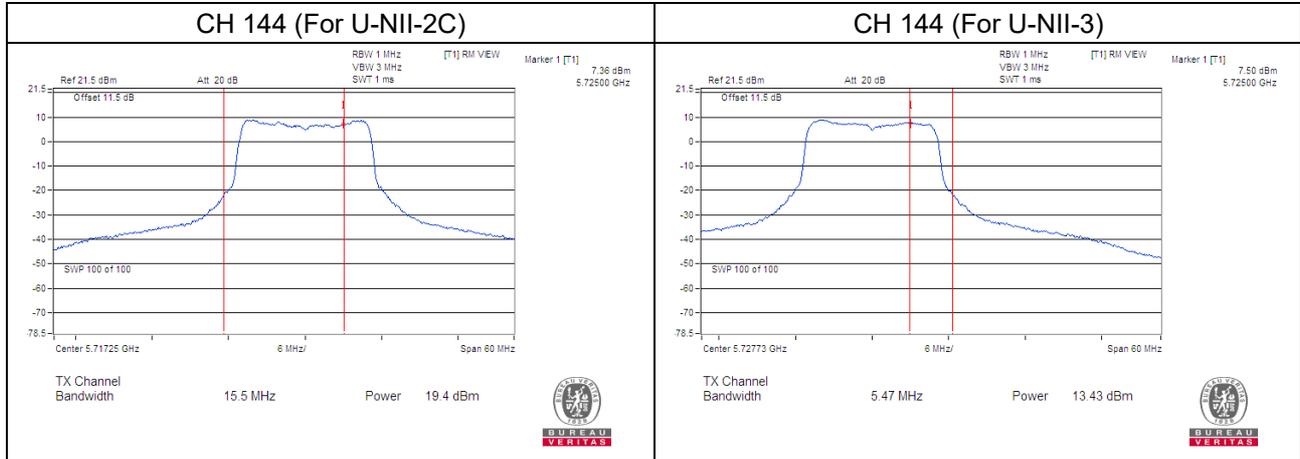
Chain 3

1.  $11\text{dBm} + 10\log(83.39) = 30.21 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(169.25) = 33.28 > 24\text{dBm}$

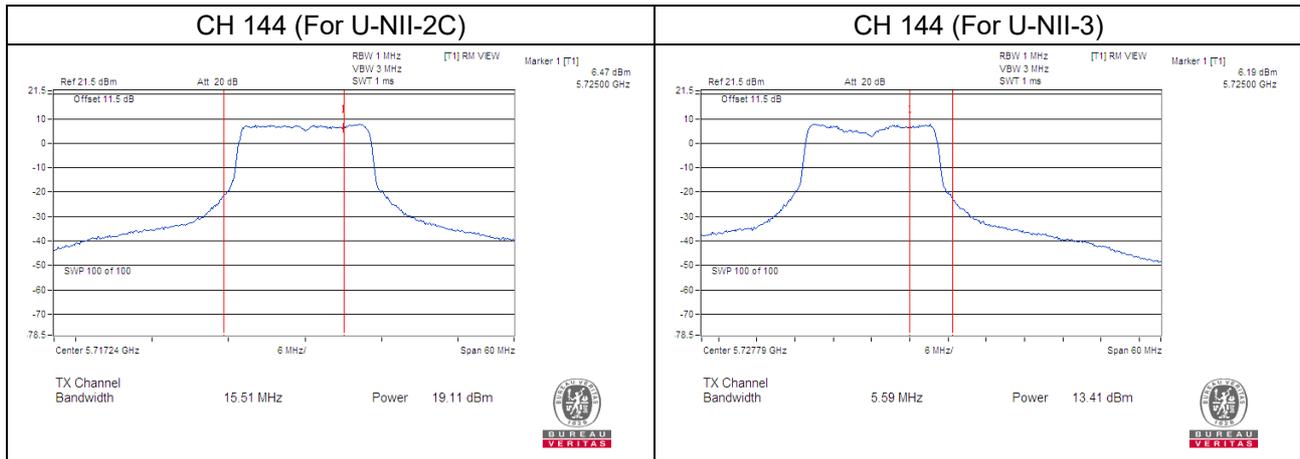
**Straddle channel power plots:**

802.11a

Chain 2

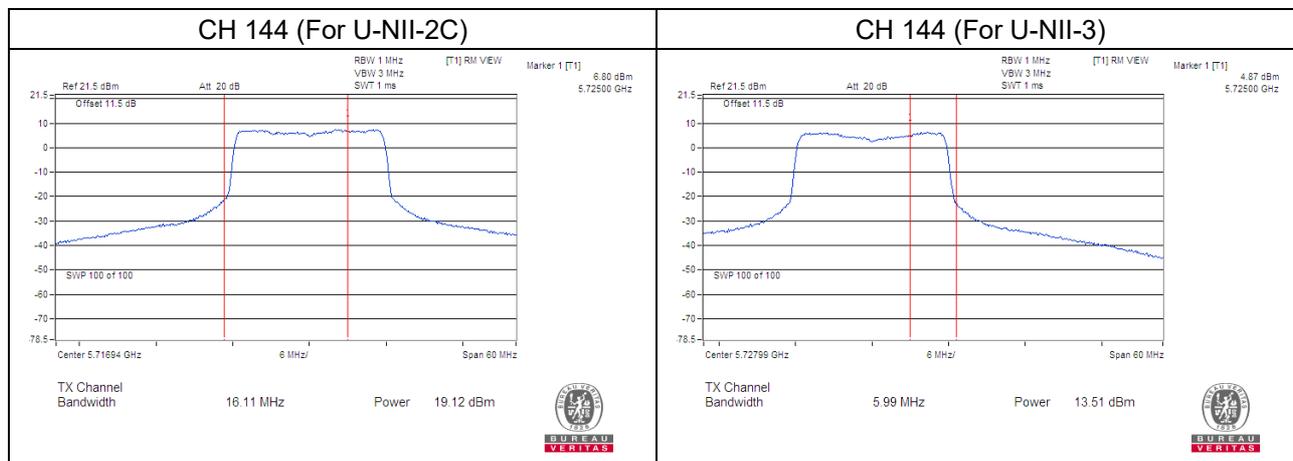


Chain 3

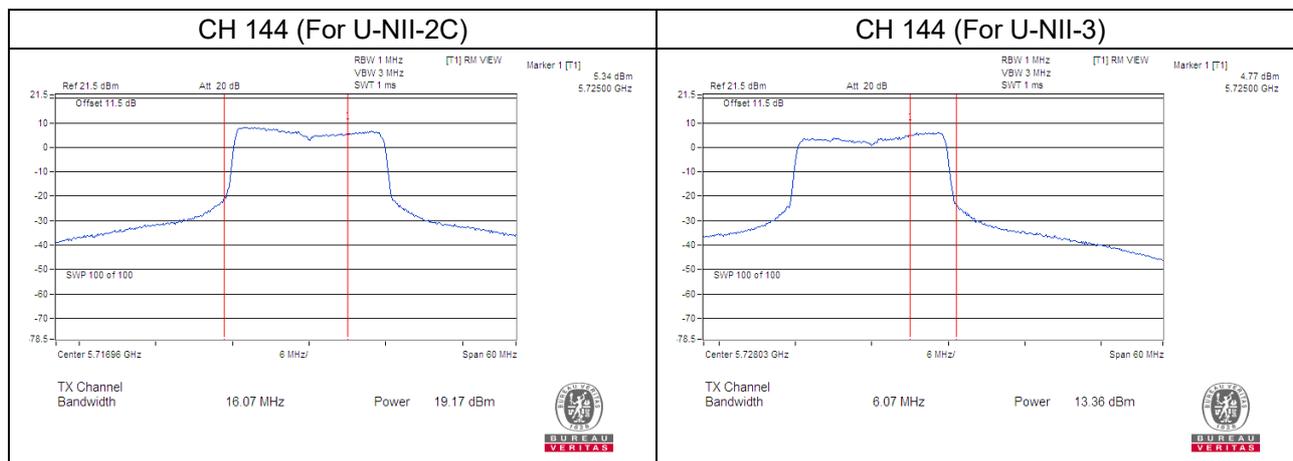


### 802.11ax (HE20)

#### Chain 2

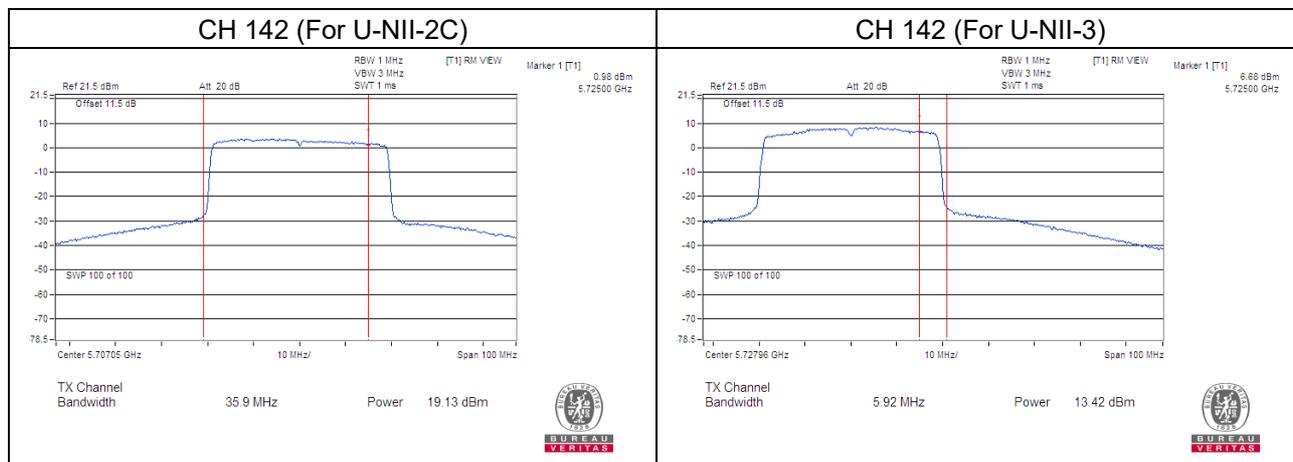


#### Chain 3

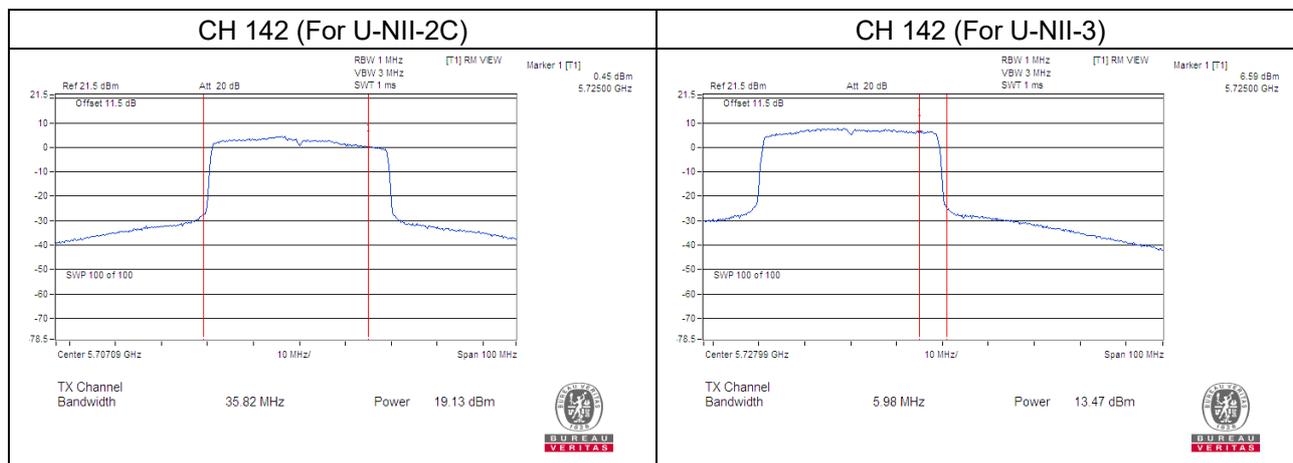


### 802.11ax (HE40)

#### Chain 2

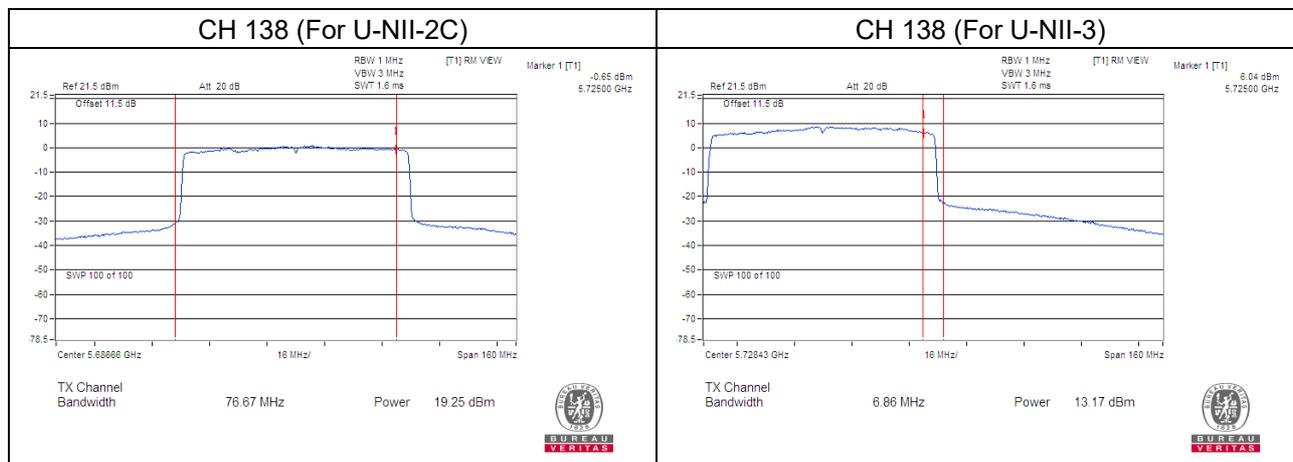


#### Chain 3

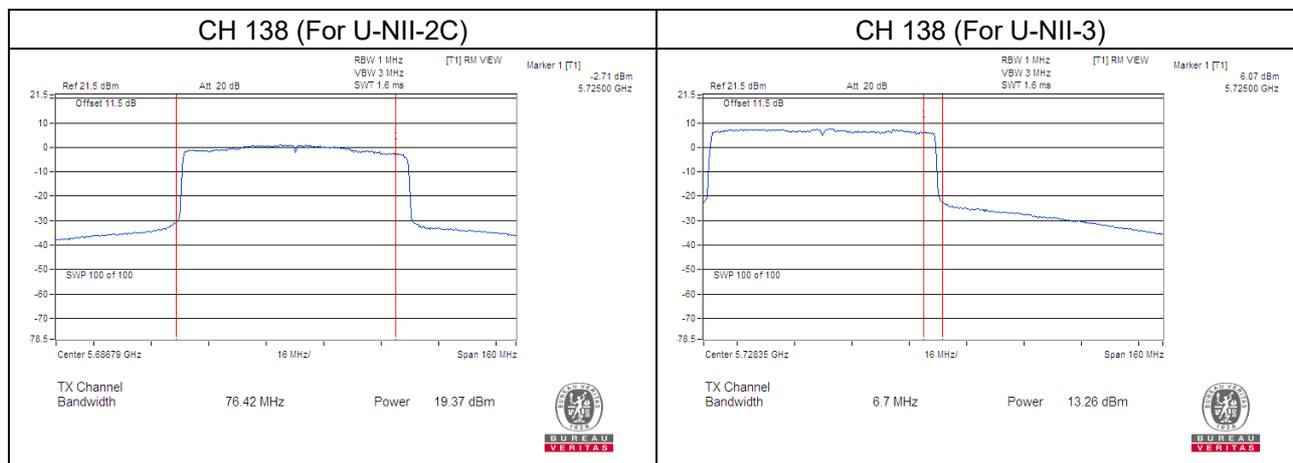


### 802.11ax (HE80)

#### Chain 2

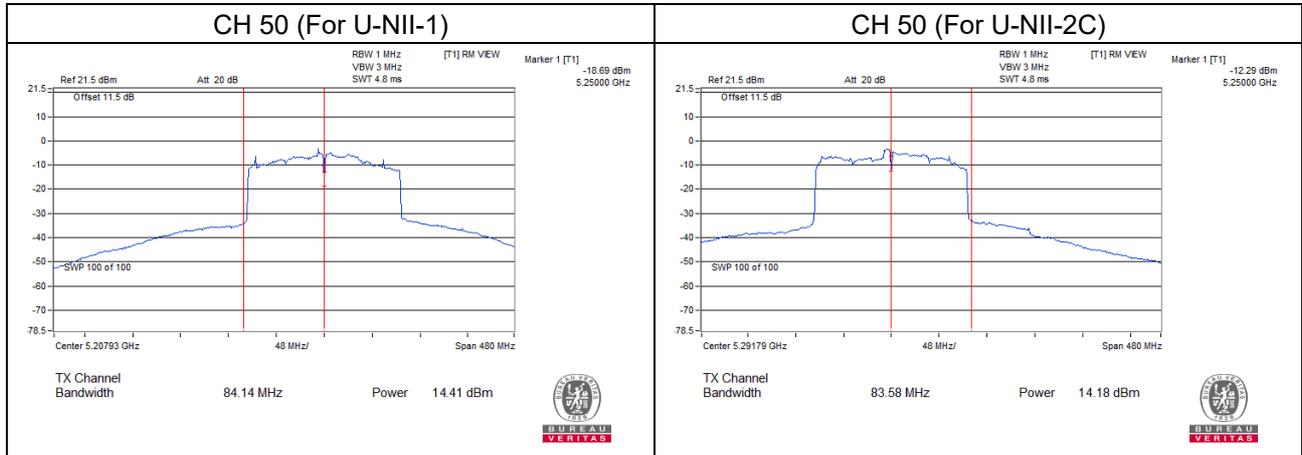


#### Chain 3

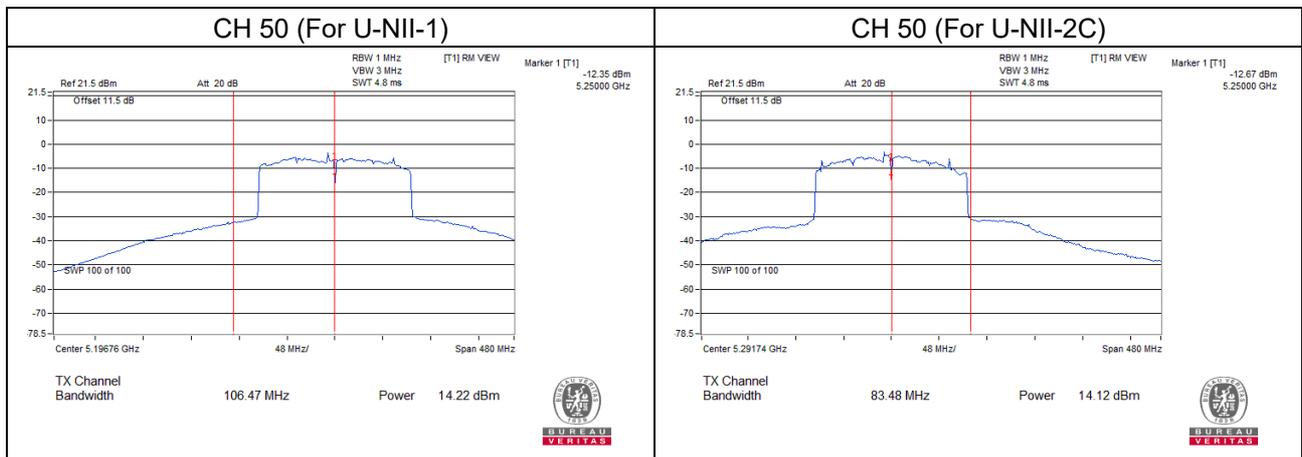


802.11ax (HE160)

Chain 2



Chain 3



26dB Bandwidth:

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 2	Chain 3
52	5260	20.95	20.92
60	5300	20.98	20.94
64	5320	20.90	21.00
100	5500	21.24	21.11
116	5580	21.15	21.11
140	5700	20.95	21.12
144	5720 (For U-NII-2C)	15.50	15.51
144	5720 (For U-NII-3)	5.47	5.59

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

For CH144 (U-NII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 2	Chain 3
52	5260	21.81	22.21
60	5300	22.21	22.49
64	5320	22.25	21.98
100	5500	22.22	22.29
116	5580	22.32	22.31
140	5700	22.34	22.42
144	5720 (For U-NII-2C)	16.11	16.07
144	5720 (For U-NII-3)	5.99	6.07

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

For CH144 (U-NII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE40)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 2	Chain 3
54	5270	41.79	41.67
62	5310	41.62	41.70
102	5510	41.92	41.86
110	5550	41.98	41.93
134	5670	41.85	41.76
142	5710 (For U-NII-2C)	35.90	35.82
142	5710 (For U-NII-3)	5.92	5.98

For CH142 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

For CH142 (U-NII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE80)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 2	Chain 3
58	5290	83.04	83.14
106	5530	83.33	82.82
122	5610	83.41	83.70
138	5690 (For U-NII-2C)	76.67	76.42
138	5690 (For U-NII-3)	6.86	6.70

For CH138 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

For CH138 (U-NII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE160)

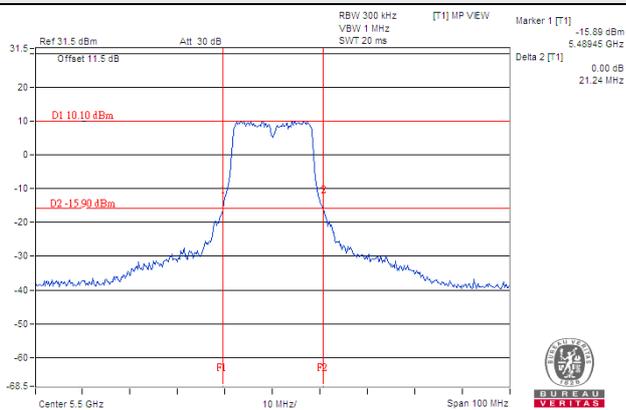
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 2	Chain 3
50	5250 (For U-NII-1)	83.85	83.76
50	5250 (For U-NII-2A)	83.56	83.39
114	5570	167.88	169.25

For CH50 (U-NII-1 Band): The 26dBc bandwidth below 5250MHz = 5250MHz - Marker 1

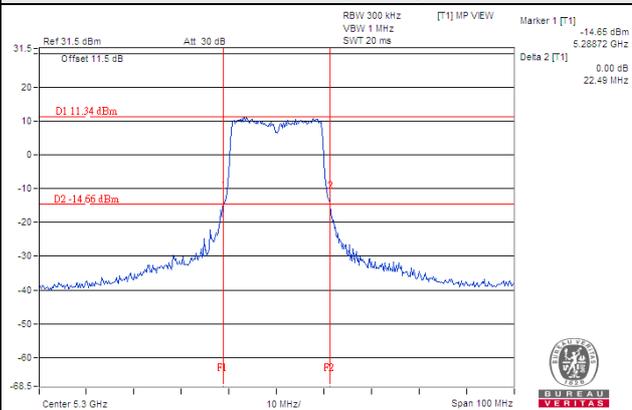
For CH50 (U-NII-2A Band): The 26dBc bandwidth above 5250MHz = Marker 1 + Delta 2 - 5250MHz

### Spectrum Plot of Worst Value

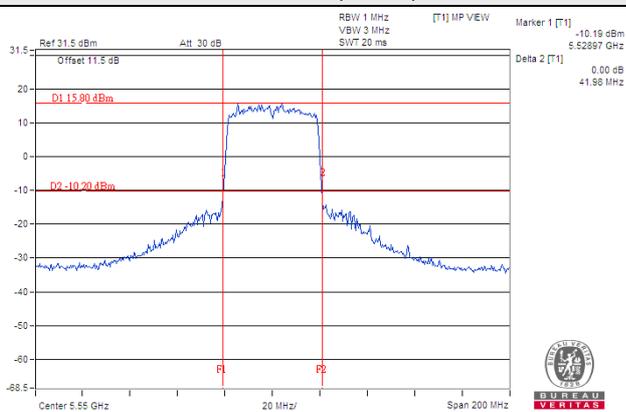
#### 802.11a



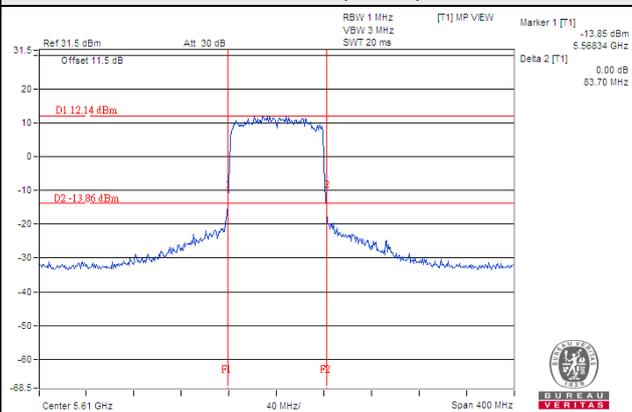
#### 802.11ax (HE20)



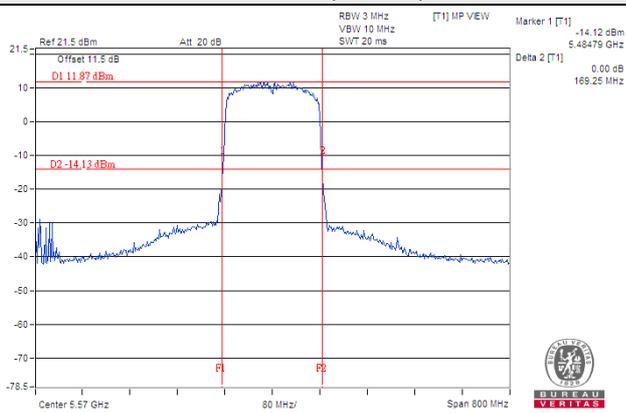
#### 802.11ax (HE40)



#### 802.11ax (HE80)



#### 802.11ax (HE160)



## EUT Average Power

CDD Mode

### 802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	23.19	208.273
5470~5725	23.19	208.529

### 802.11ax (HE20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	23.28	212.591
5470~5725	23.20	208.707

### 802.11ax (HE40)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	23.24	211.003
5470~5725	23.13	205.638

### 802.11ax (HE80)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	21.78	150.499
5470~5725	23.26	211.946

### 802.11ax (HE160)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	15.10	32.325
5470~5725	20.98	125.350

## Beamforming Mode

### 802.11ax (HE20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	23.28	212.591
5470~5725	23.20	208.707

### 802.11ax (HE40)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	23.24	211.003
5470~5725	23.13	205.638

### 802.11ax (HE80)

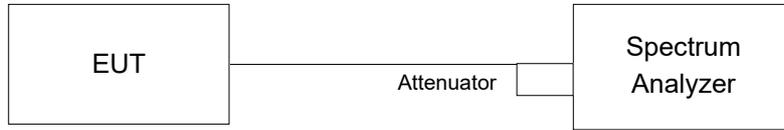
Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	21.78	150.499
5470~5725	23.26	211.946

### 802.11ax (HE160)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	15.10	32.325
5470~5725	20.98	125.350

## 4.4 Occupied Bandwidth Measurement

### 4.4.1 Test Setup



### 4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.4.3 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.

#### 4.4.4 Test Result

4TX (WAX630E)

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	16.68	16.80	16.68	16.68
40	5200	17.04	16.92	17.04	16.92
48	5240	17.52	17.40	17.40	17.52
52	5260	16.68	16.68	16.68	16.68
60	5300	16.68	16.68	16.68	16.68
64	5320	16.68	16.68	16.68	16.68
100	5500	16.68	16.68	16.68	16.68
116	5580	16.68	16.68	16.68	16.68
140	5700	16.68	16.68	16.68	16.68
144	5720 (For U-NII-2C)	13.40	13.40	13.40	13.40
144	5720 (For U-NII-3)	3.28	3.28	3.28	3.28
149	5745	18.00	18.17	18.09	18.26
157	5785	18.96	18.96	19.20	19.20
165	5825	33.12	33.36	33.24	33.36

For CH144 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Temp 1

For CH144 (U-NII-3 Band): The Occupied bandwidth above 5725MHz = Temp 2 - 5725MHz

802.11ax (HE20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	19.32	19.20	19.08	19.20
40	5200	19.20	19.32	19.20	19.20
48	5240	19.44	19.56	19.56	19.56
52	5260	19.20	19.20	19.20	19.20
60	5300	19.20	19.20	19.20	19.20
64	5320	19.20	19.08	19.20	19.08
100	5500	19.20	19.08	19.20	19.08
116	5580	19.20	19.08	19.20	19.20
140	5700	19.20	19.08	19.20	19.20
144	5720 (For U-NII-2C)	14.60	14.60	14.60	14.60
144	5720 (For U-NII-3)	4.48	4.48	4.60	4.48
149	5745	19.57	19.74	19.74	19.65
157	5785	20.04	20.16	20.04	20.04
165	5825	35.88	35.40	36.00	36.12

For CH144 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Temp 1

For CH144 (U-NII-3 Band): The Occupied bandwidth above 5725MHz = Temp 2 - 5725MHz

802.11ax (HE40)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	38.64	38.64	38.64	38.40
46	5230	38.40	38.16	38.40	38.40
54	5270	38.40	38.40	38.40	38.40
62	5310	37.92	37.92	37.92	37.92
102	5510	38.64	38.40	38.40	38.40
110	5550	37.92	37.92	37.92	37.92
134	5670	37.92	37.92	37.92	37.92
142	5710 (For U-NII-2C)	33.96	33.96	33.96	33.96
142	5710 (For U-NII-3)	3.96	3.96	3.96	3.96
151	5755	39.48	39.31	39.31	39.48
159	5795	54.48	55.20	54.96	55.92

For CH142 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Temp 1

For CH142 (U-NII-3 Band): The Occupied bandwidth above 5725MHz = Temp 2 - 5725MHz

802.11ax (HE80)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	77.52	77.52	77.76	77.52
58	5290	77.52	77.52	77.52	77.52
106	5530	77.28	77.04	77.04	77.28
122	5610	77.28	77.28	77.04	77.28
138	5690 (For U-NII-2C)	73.64	73.64	73.64	73.88
138	5690 (For U-NII-3)	3.64	3.40	3.64	3.64
155	5775	77.39	77.74	77.57	77.57

For CH138 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Temp 1

For CH138 (U-NII-3 Band): The Occupied bandwidth above 5725MHz = Temp 2 - 5725MHz

802.11ax (HE160)

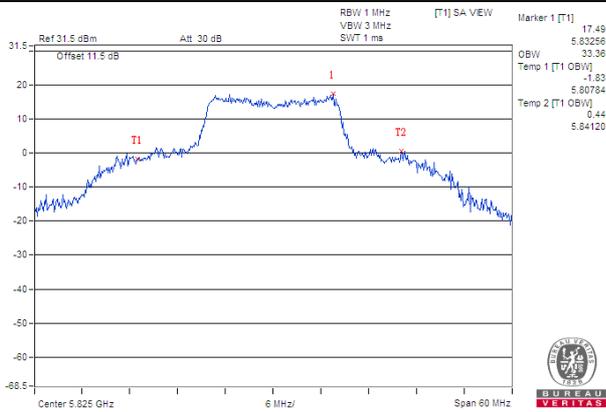
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50	5250 (For U-NII-1)	77.91	77.76	78.72	78.72
50	5250 (For U-NII-2A)	77.22	76.80	76.80	76.80
114	5570	154.56	155.52	155.52	154.56

For CH50 (U-NII-1 Band): The Occupied bandwidth below 5250MHz = 5250MHz - Temp 1

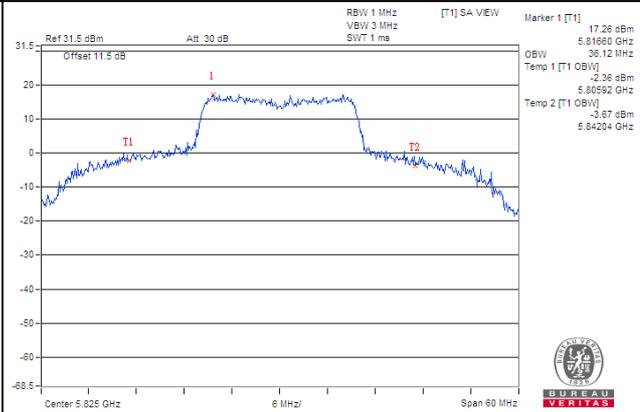
For CH50 (U-NII-2A Band): The Occupied bandwidth above 5250MHz = Temp 2 - 5250MHz

### Spectrum Plot of Worst Value

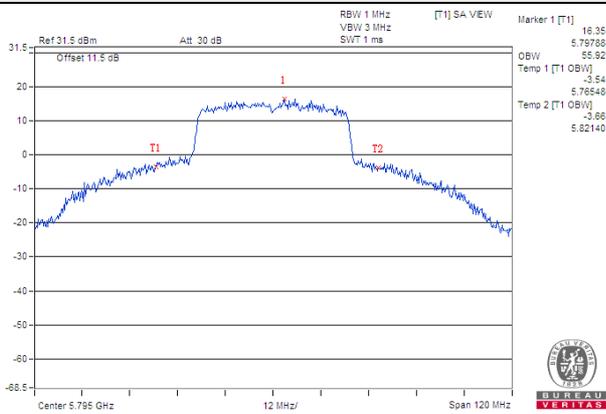
#### 802.11a



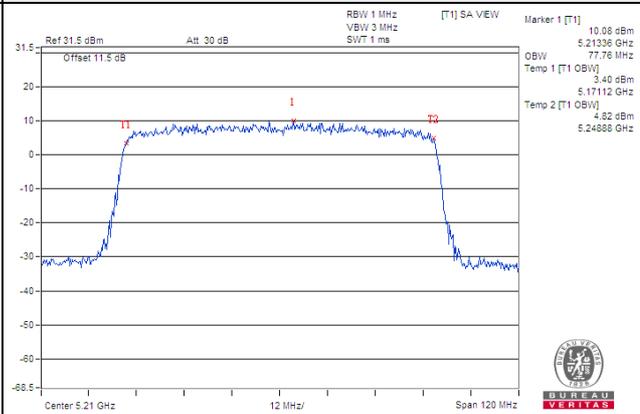
#### 802.11ax (HE20)



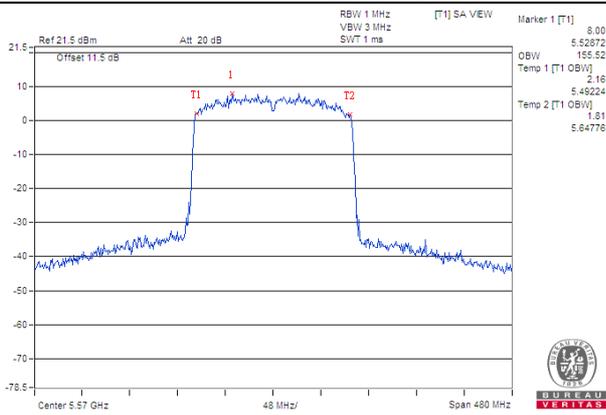
#### 802.11ax (HE40)



#### 802.11ax (HE80)

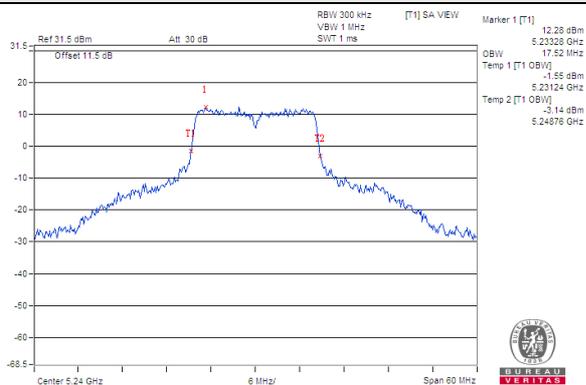


#### 802.11ax (HE160)

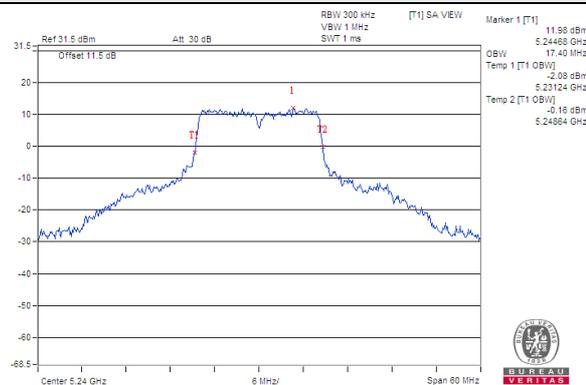


### Spectrum Plot for near By DFS Band

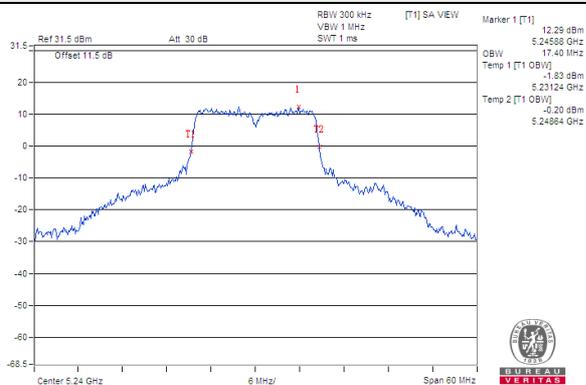
802.11a / Chain 0 / CH 48



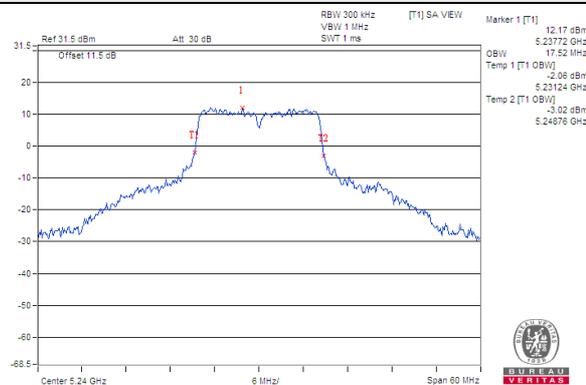
802.11a / Chain 1 / CH 48



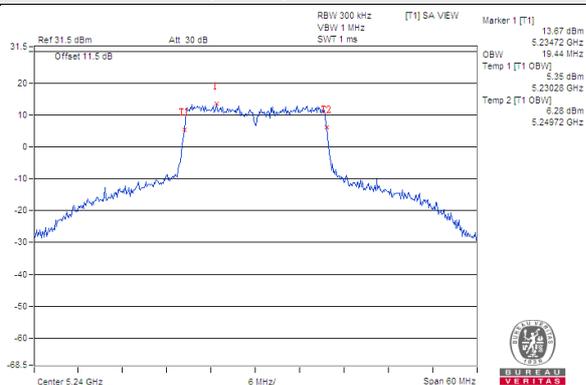
802.11a / Chain 2 / CH 48



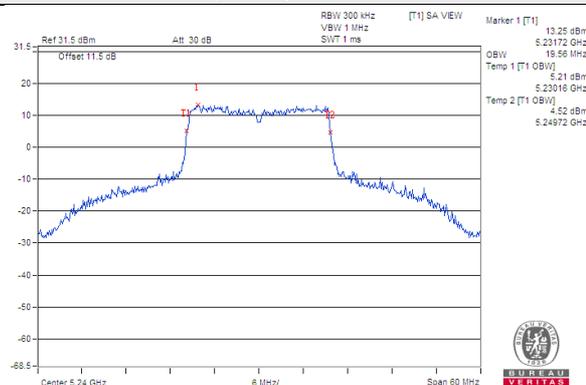
802.11a / Chain 3 / CH 48



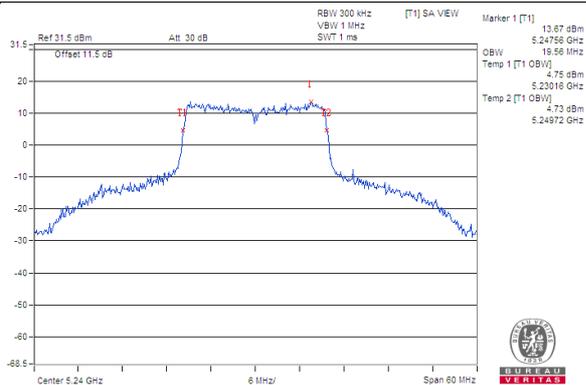
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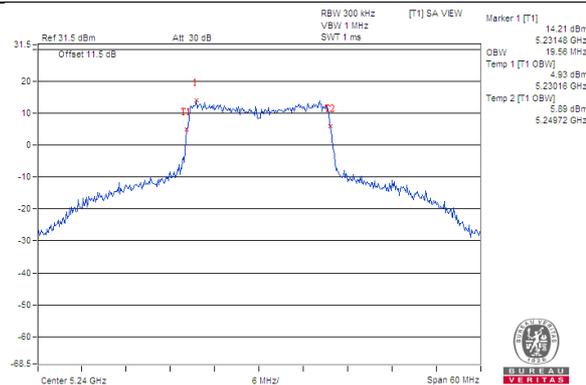
802.11ax (HE20) / Chain 1 / CH 48



802.11ax (HE20) / Chain 2 / CH 48

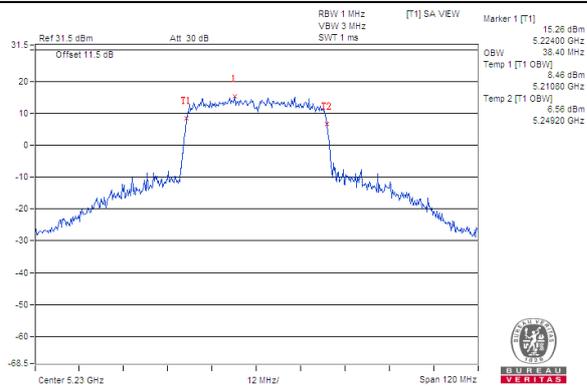


802.11ax (HE20) / Chain 3 / CH 48

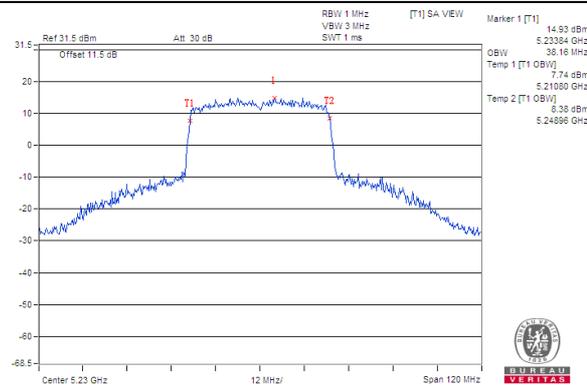


Spectrum Plot for near By DFS Band

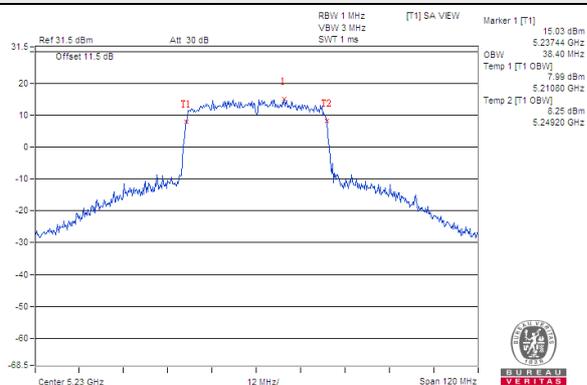
802.11ax (HE40) / Chain 0 / CH 46



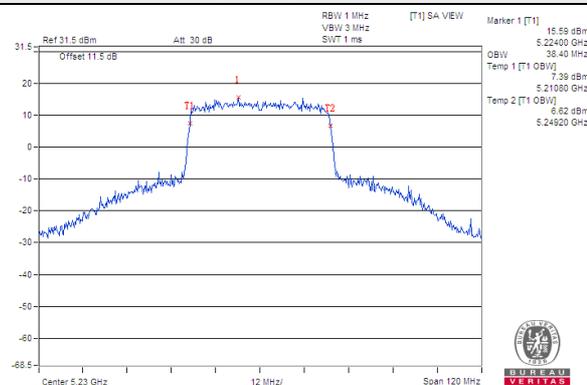
802.11ax (HE40) / Chain 1 / CH 46



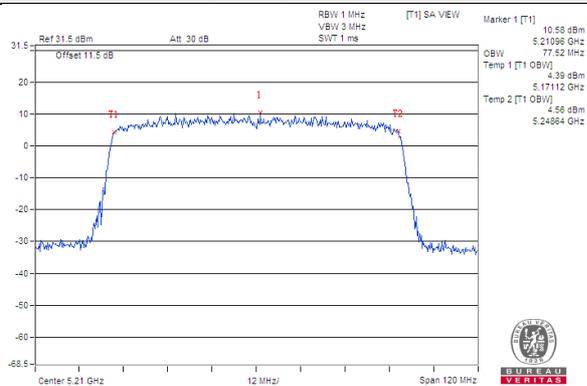
802.11ax (HE40) / Chain 2 / CH 46



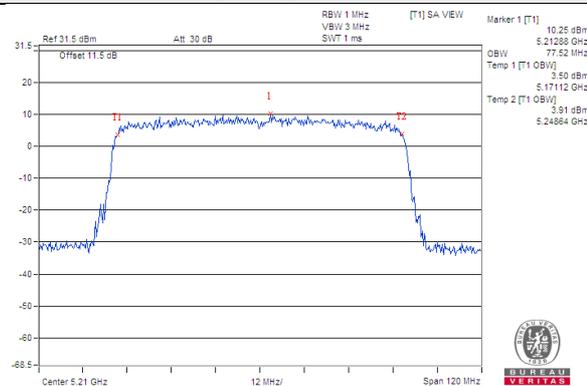
802.11ax (HE40) / Chain 3 / CH 46



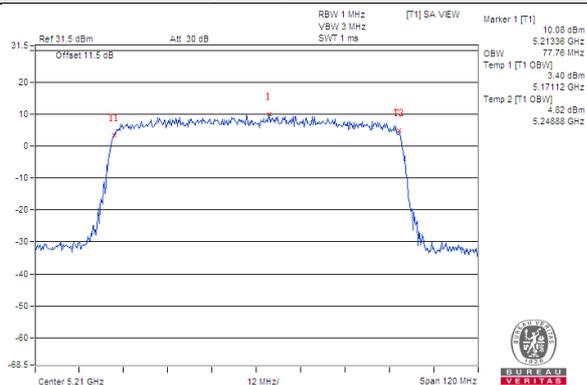
802.11ax (HE80) / Chain 0 / CH 42



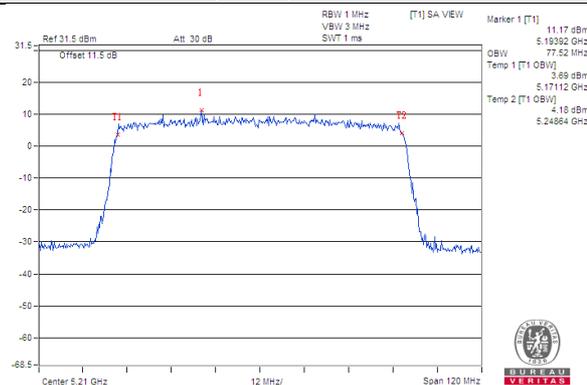
802.11ax (HE80) / Chain 1 / CH 42



802.11ax (HE80) / Chain 2 / CH 42

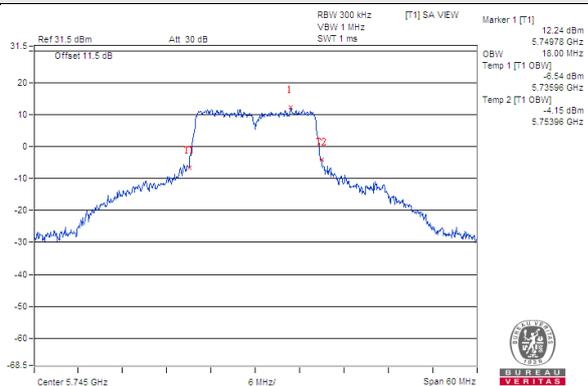


802.11ax (HE80) / Chain 3 / CH 42

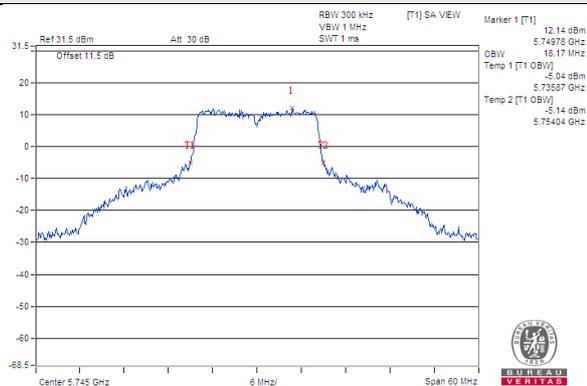


### Spectrum Plot for near By DFS Band

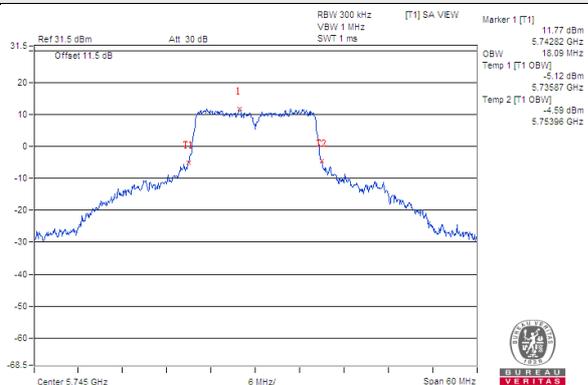
802.11a / Chain 0 / CH 149



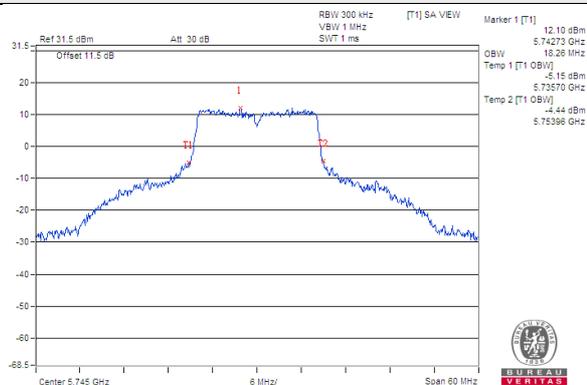
802.11a / Chain 1 / CH 149



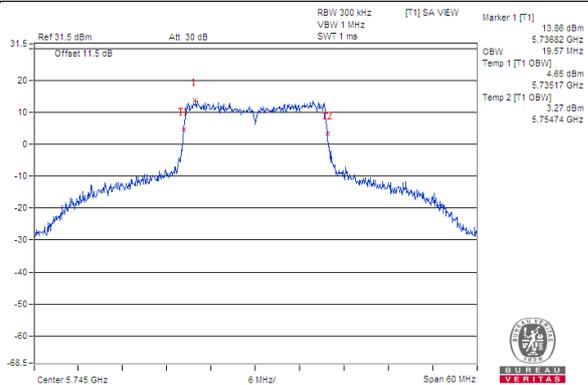
802.11a / Chain 2 / CH 149



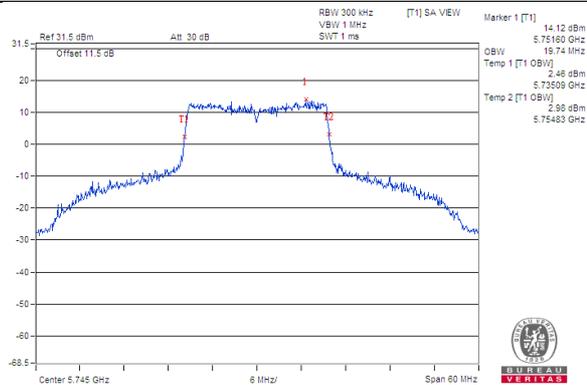
802.11a / Chain 3 / CH 149



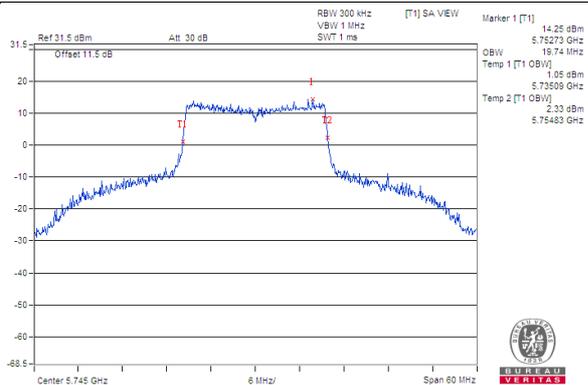
802.11ax (HE20) / Chain 0 / CH 149



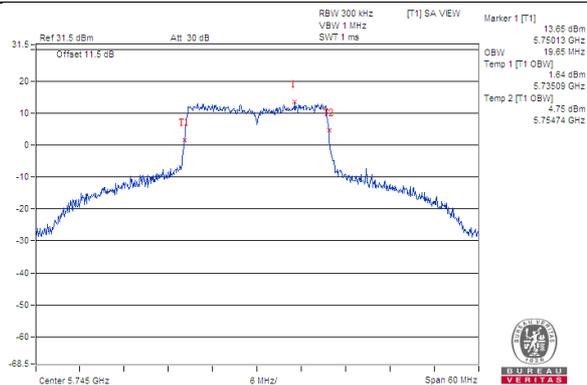
802.11ax (HE20) / Chain 1 / CH 149



802.11ax (HE20) / Chain 2 / CH 149

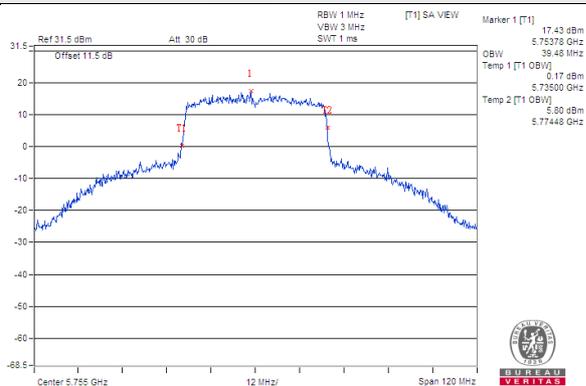


802.11ax (HE20) / Chain 3 / CH 149

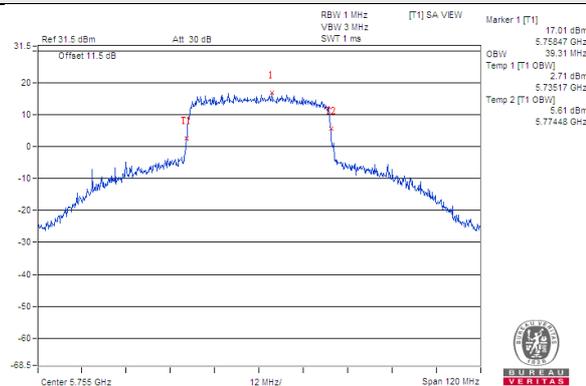


### Spectrum Plot for near By DFS Band

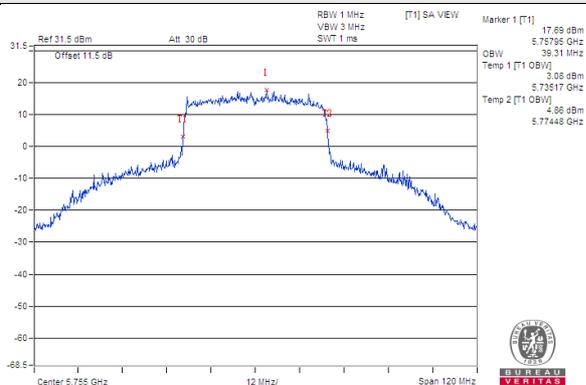
802.11ax (HE40) / Chain 0 / CH 151



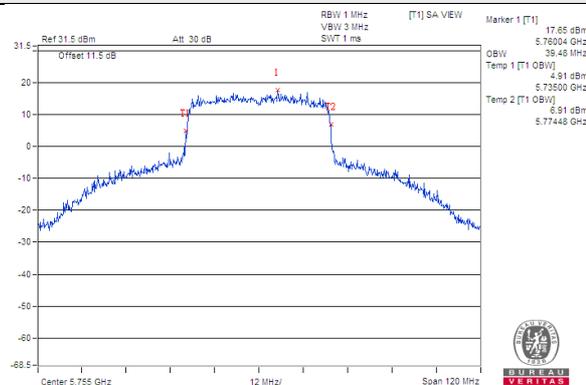
802.11ax (HE40) / Chain 1 / CH 151



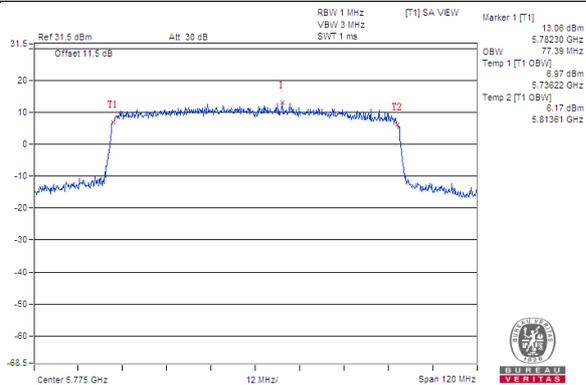
802.11ax (HE40) / Chain 2 / CH 151



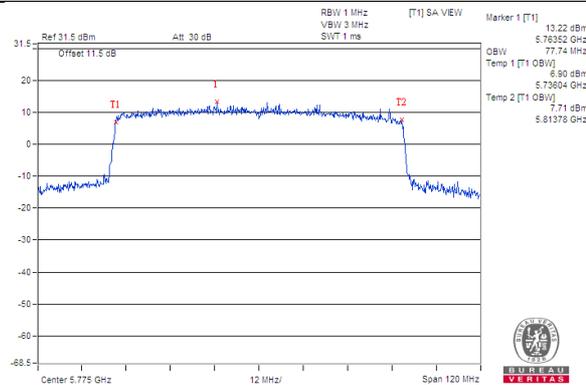
802.11ax (HE40) / Chain 3 / CH 151



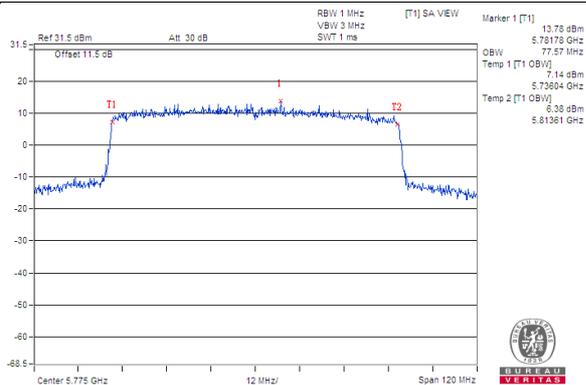
802.11ax (HE80) / Chain 0 / CH 155



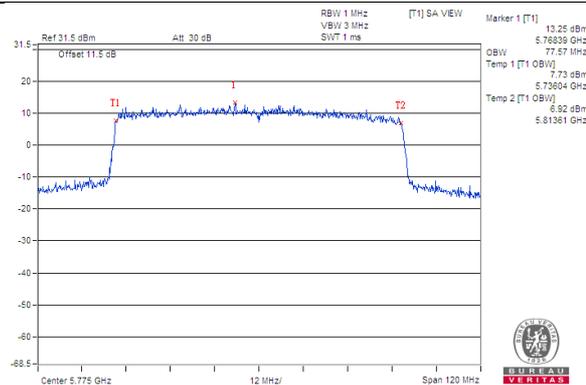
802.11ax (HE80) / Chain 1 / CH 155



802.11ax (HE80) / Chain 2 / CH 155



802.11ax (HE80) / Chain 3 / CH 155



2TX (WAX620E)

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 2	Chain 3
36	5180	16.68	16.68
40	5200	19.56	19.92
48	5240	18.44	18.52
52	5260	16.68	16.68
60	5300	16.68	16.68
64	5320	16.68	16.68
100	5500	16.68	16.68
116	5580	16.68	16.68
140	5700	16.68	16.68
144	5720 (For U-NII-2C)	13.40	13.40
144	5720 (For U-NII-3)	3.28	3.28
149	5745	39.57	39.57
157	5785	39.36	39.12
165	5825	43.08	42.96

For CH144 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Temp 1

For CH144 (U-NII-3 Band): The Occupied bandwidth above 5725MHz = Temp 2 - 5725MHz

802.11ax (HE20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 2	Chain 3
36	5180	19.20	19.08
40	5200	19.32	19.44
48	5240	19.80	19.68
52	5260	19.20	19.20
60	5300	19.20	19.20
64	5320	19.20	19.20
100	5500	19.20	19.20
116	5580	19.20	19.20
140	5700	19.08	19.20
144	5720 (For U-NII-2C)	14.60	14.60
144	5720 (For U-NII-3)	4.60	4.60
149	5745	44.43	43.91
157	5785	43.80	43.92
165	5825	46.20	46.68

For CH144 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Temp 1

For CH144 (U-NII-3 Band): The Occupied bandwidth above 5725MHz = Temp 2 - 5725MHz

802.11ax (HE40)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 2	Chain 3
38	5190	38.64	38.64
46	5230	38.16	37.92
54	5270	38.40	38.40
62	5310	37.92	37.68
102	5510	38.40	38.40
110	5550	37.92	37.92
134	5670	37.92	37.92
142	5710 (For U-NII-2C)	34.08	33.96
142	5710 (For U-NII-3)	3.96	3.96
151	5755	74.78	75.13
159	5795	74.16	73.68

For CH142 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Temp 1

For CH142 (U-NII-3 Band): The Occupied bandwidth above 5725MHz = Temp 2 - 5725MHz

802.11ax (HE80)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 2	Chain 3
42	5210	77.52	77.52
58	5290	77.52	77.52
106	5530	77.52	77.28
122	5610	77.28	77.28
138	5690 (For U-NII-2C)	73.64	73.64
138	5690 (For U-NII-3)	3.40	3.64
155	5775	77.74	77.74

For CH138 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Temp 1

For CH138 (U-NII-3 Band): The Occupied bandwidth above 5725MHz = Temp 2 - 5725MHz

802.11ax (HE160)

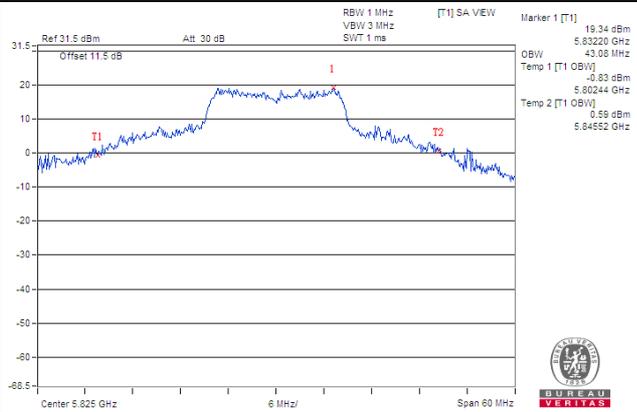
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 2	Chain 3
50	5250 (For U-NII-1)	77.76	77.76
50	5250 (For U-NII-2A)	76.80	77.76
114	5570	156.48	155.52

For CH50 (U-NII-1 Band): The Occupied bandwidth below 5250MHz = 5250MHz - Temp 1

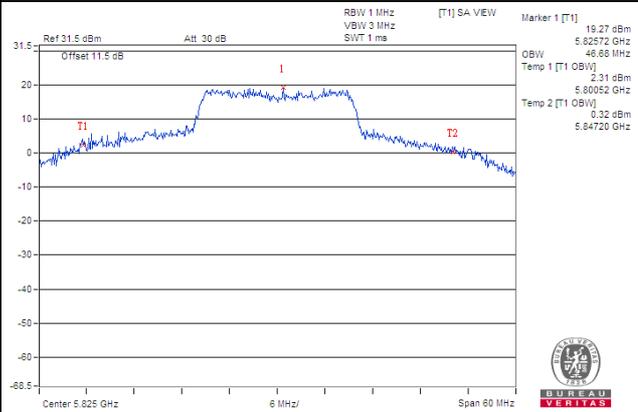
For CH50 (U-NII-2A Band): The Occupied bandwidth above 5250MHz = Temp 2 - 5250MHz

### Spectrum Plot of Worst Value

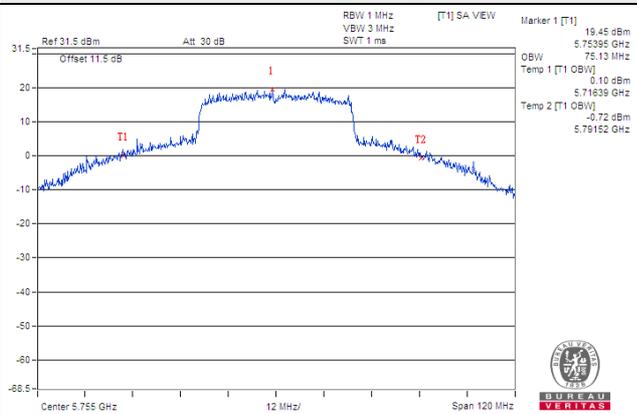
#### 802.11a



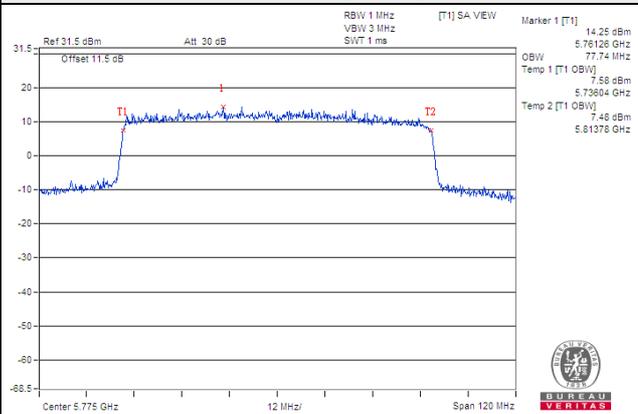
#### 802.11ax (HE20)



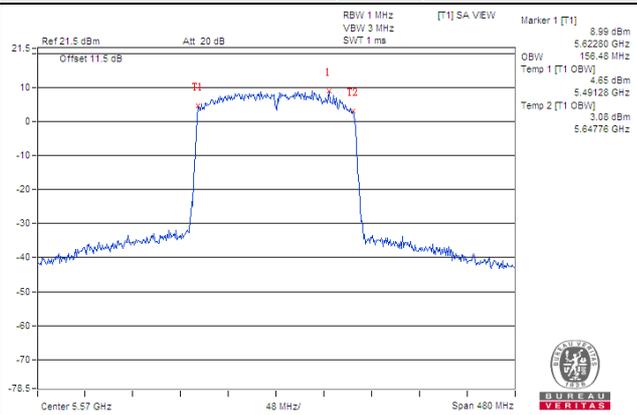
#### 802.11ax (HE40)



#### 802.11ax (HE80)

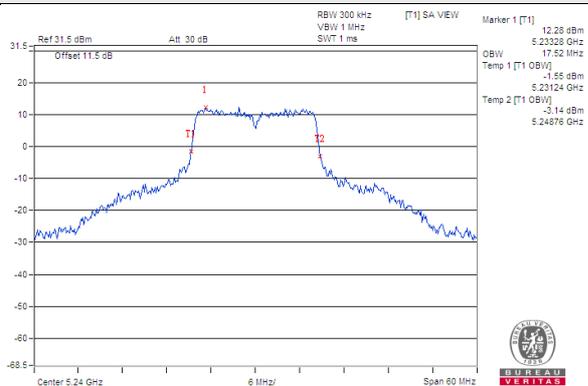


#### 802.11ax (HE160)

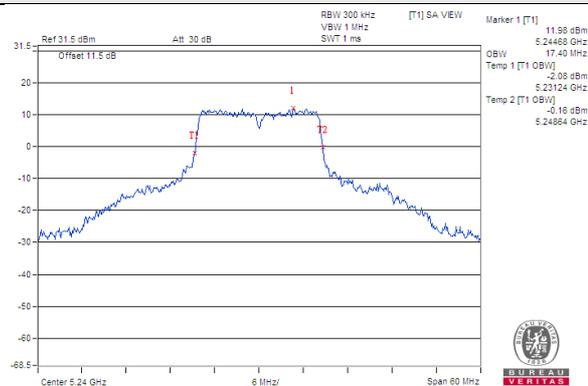


### Spectrum Plot for near By DFS Band

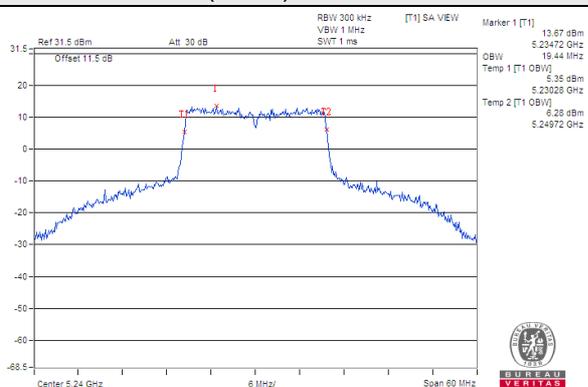
#### 802.11a / Chain 2 / CH 48



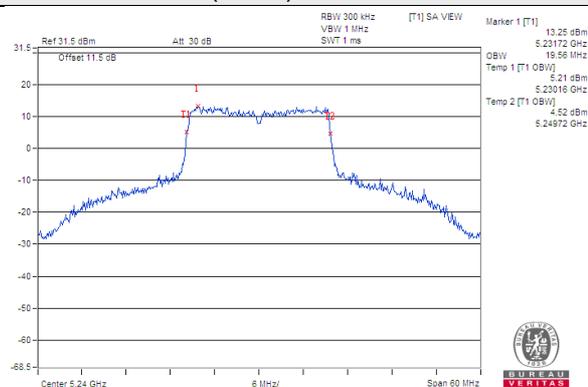
#### 802.11a / Chain 3 / CH 48



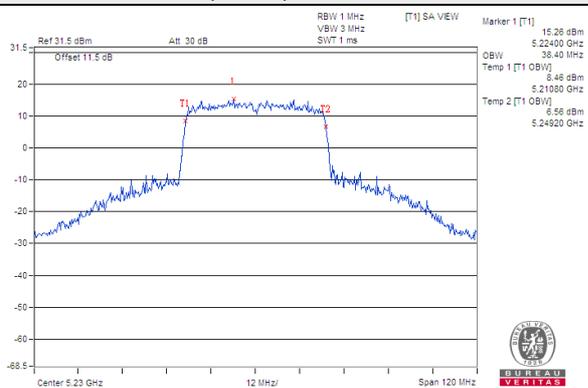
#### 802.11ax (HE20) / Chain 2 / CH 48



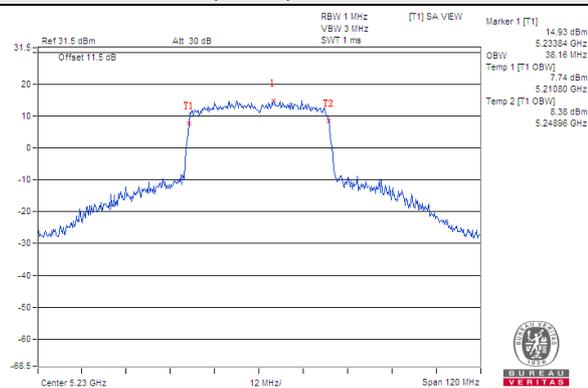
#### 802.11ax (HE20) / Chain 3 / CH 48



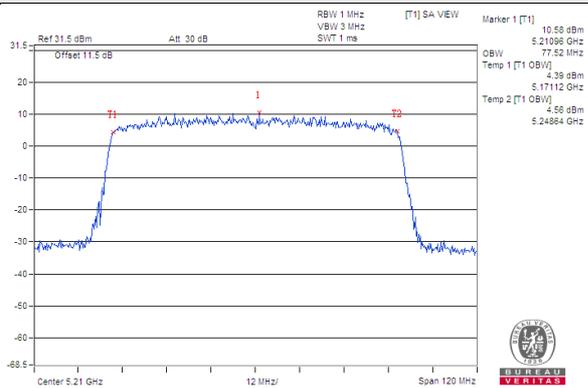
#### 802.11ax (HE40) / Chain 2 / CH 46



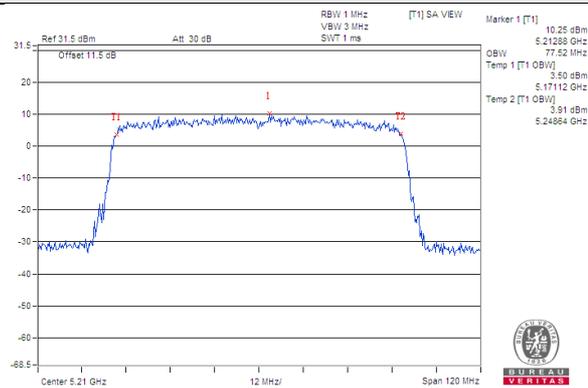
#### 802.11ax (HE40) / Chain 3 / CH 46



#### 802.11ax (HE80) / Chain 2 / CH 42

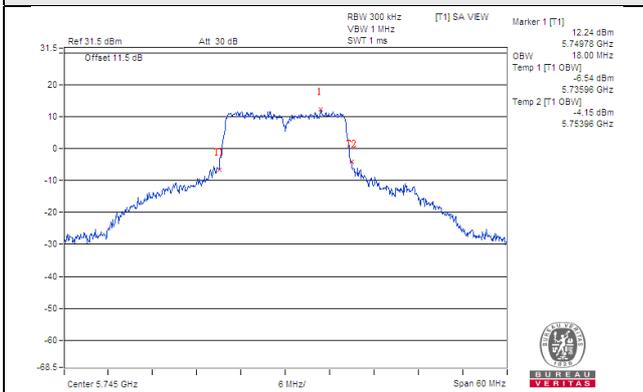


#### 802.11ax (HE80) / Chain 3 / CH 42

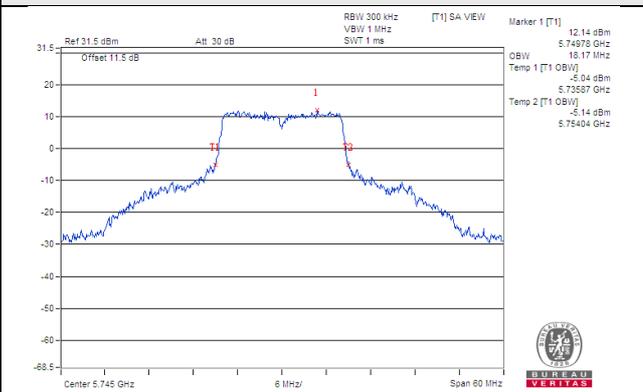


### Spectrum Plot for near By DFS Band

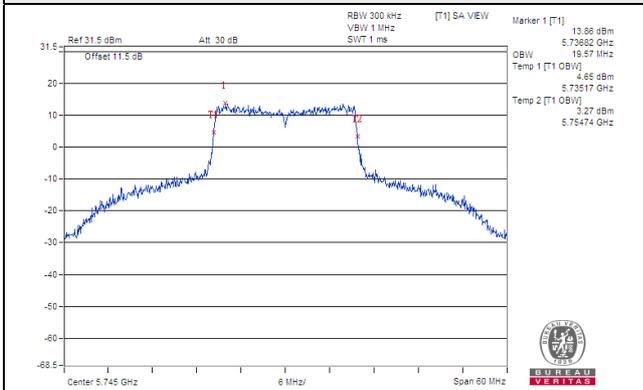
802.11a / Chain 2 / CH 149



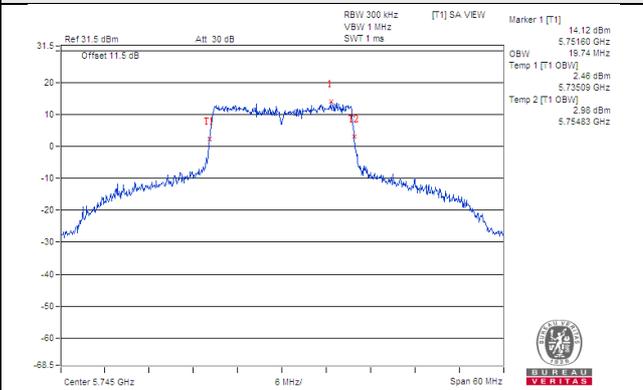
802.11a / Chain 3 / CH 149



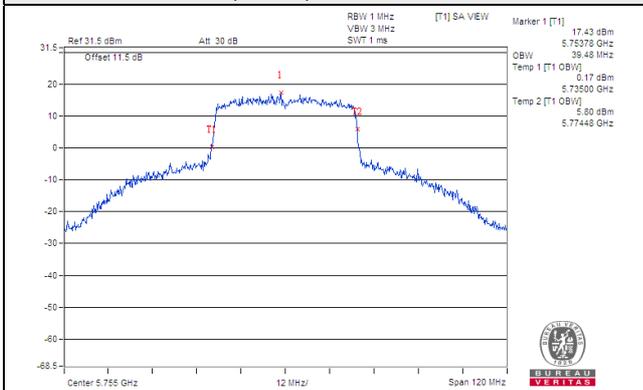
802.11ax (HE20) / Chain 2 / CH 149



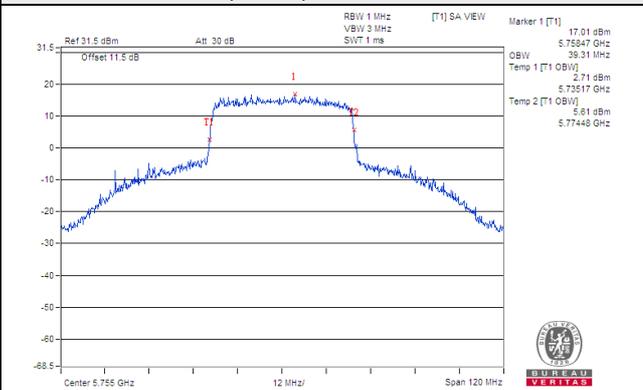
802.11ax (HE20) / Chain 3 / CH 149



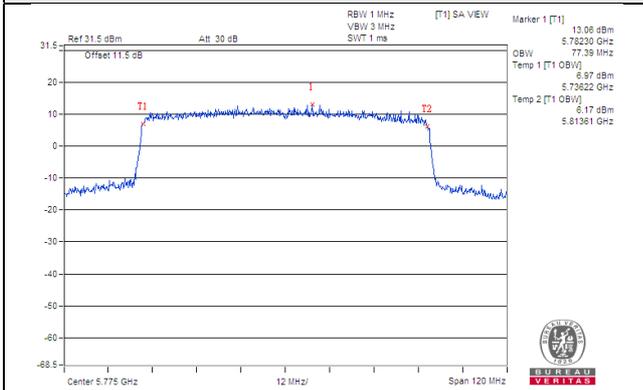
802.11ax (HE40) / Chain 2 / CH 151



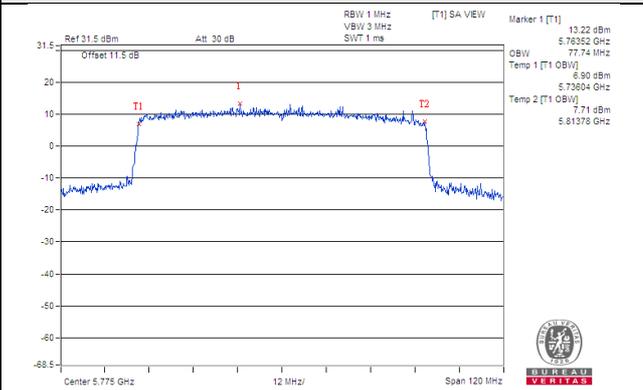
802.11ax (HE40) / Chain 3 / CH 151



802.11ax (HE80) / Chain 2 / CH 155



802.11ax (HE80) / Chain 3 / CH 155

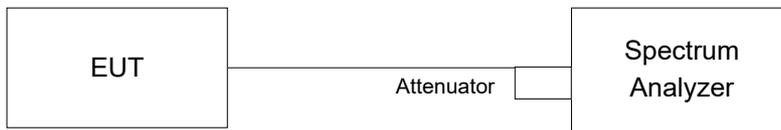


## 4.5 Peak Power Spectral Density Measurement

### 4.5.1 Limits of Peak Power Spectral Density Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
	√	Indoor Access Point	
		Mobile and Portable client device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

### 4.5.2 Test Setup



### 4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.5.4 Test Procedures

For U-NII-1, U-NII-2A and U-NII-2C band:

Duty cycle of test signal is < 98%

Using method SA-2

- a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
- b. Set RBW = 1MHz, Set VBW  $\geq$  3 MHz, Detector = RMS
- c. Set Channel power measure = 1MHz
- d. Sweep time = auto, trigger set to "free run".
- e. Trace average at least 100 traces in power averaging mode.
- f. Record the max value and add  $10 \log (1/\text{duty cycle})$

For U-NII-3 band:

Duty cycle of test signal is < 98%

- a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
- b. Set RBW = 300 kHz, Set VBW  $\geq$  1 MHz, Detector = RMS
- c. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
- d. Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where  $\text{BWCF} = 10\log(500 \text{ kHz} / 300 \text{ kHz})$
- e. Sweep time = auto, trigger set to "free run".
- f. Trace average at least 100 traces in power averaging mode.
- g. Record the max value and add  $10 \log (1/\text{duty cycle})$

#### 4.5.5 Deviation from Test Standard

No deviation.

#### 4.5.6 EUT Operating Conditions

Same as 4.3.6.

#### 4.5.7 Test Results

##### 4TX (WAX630E)

For U-NII-1, U-NII-2A and U-NII-2C band:

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	7.25	7.42	7.30	7.62	0.29	13.71	16.75	Pass
40	5200	8.06	8.02	7.79	7.86	0.29	14.24	16.75	Pass
48	5240	7.80	7.80	7.86	7.94	0.29	14.16	16.75	Pass
52	5260	4.03	3.84	3.82	3.00	0.29	10.00	10.74	Pass
60	5300	3.87	3.01	2.90	2.93	0.29	9.51	10.74	Pass
64	5320	3.95	3.91	2.98	2.92	0.29	9.78	10.74	Pass
100	5500	4.02	3.03	3.05	3.98	0.29	9.85	10.88	Pass
116	5580	3.83	3.96	3.05	3.92	0.29	10.01	10.88	Pass
140	5700	3.94	3.91	3.85	3.91	0.29	10.21	10.88	Pass
144	5720 (For U-NII-2C)	3.84	3.98	3.03	3.90	0.29	10.01	10.88	Pass

Note:

- 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.
- 5180-5250MHz: Directional gain = 6.25dBi > 6dBi, so the power density limit shall be reduced to  $17 - (6.25 - 6) = 16.75\text{dBm}$ .
- 5250-5320MHz: Directional gain = 6.26dBi > 6dBi, so the power density limit shall be reduced to  $11 - (6.26 - 6) = 10.74\text{dBm}$ .
- 5500-5720MHz: Directional gain = 6.12dBi > 6dBi, so the power density limit shall be reduced to  $11 - (6.12 - 6) = 10.88\text{dBm}$ .
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	7.44	5.59	5.45	7.47	0.33	12.95	16.75	Pass
40	5200	7.45	7.91	6.31	7.38	0.33	13.65	16.75	Pass
48	5240	7.23	7.56	7.82	5.40	0.33	13.45	16.75	Pass
52	5260	3.75	3.79	3.85	3.84	0.33	10.16	10.74	Pass
60	5300	3.71	3.83	3.85	3.75	0.33	10.14	10.74	Pass
64	5320	3.69	3.79	3.86	2.88	0.33	9.92	10.74	Pass
100	5500	3.63	3.90	3.91	3.87	0.33	10.18	10.88	Pass
116	5580	3.75	3.64	3.81	3.76	0.33	10.09	10.88	Pass
140	5700	3.79	3.83	3.73	3.70	0.33	10.11	10.88	Pass
144	5720 (For U-NII-2C)	3.71	3.88	3.64	3.76	0.33	10.10	10.88	Pass

Note:

- 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.
- 5180-5250MHz: Directional gain = 6.25dBi > 6dBi, so the power density limit shall be reduced to 17 - (6.25 - 6) = 16.75dBm.
- 5250-5320MHz: Directional gain = 6.26dBi > 6dBi, so the power density limit shall be reduced to 11 - (6.26 - 6) = 10.74dBm.
- 5500-5720MHz: Directional gain = 6.12dBi > 6dBi, so the power density limit shall be reduced to 11 - (6.12 - 6) = 10.88dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

### 802.11ax (HE40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	3.78	3.48	2.47	3.65	0.40	9.80	16.75	Pass
46	5230	6.03	6.45	5.29	5.62	0.40	12.29	16.75	Pass
54	5270	0.73	-1.44	0.69	0.27	0.40	6.57	10.74	Pass
62	5310	1.13	-2.27	0.79	0.87	0.40	6.75	10.74	Pass
102	5510	1.28	1.20	0.10	0.55	0.40	7.23	10.88	Pass
110	5550	1.26	0.65	-2.45	0.83	0.40	6.72	10.88	Pass
134	5670	1.03	0.46	-0.18	0.73	0.40	6.96	10.88	Pass
142	5710 (For U-NII-2C)	0.32	0.95	0.97	0.67	0.40	7.16	10.88	Pass

Note:

- 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.
- 5180-5250MHz: Directional gain = 6.25dBi > 6dBi, so the power density limit shall be reduced to 17 - (6.25 - 6) = 16.75dBm.
- 5250-5320MHz: Directional gain = 6.26dBi > 6dBi, so the power density limit shall be reduced to 11 - (6.26 - 6) = 10.74dBm.
- 5500-5720MHz: Directional gain = 6.12dBi > 6dBi, so the power density limit shall be reduced to 11 - (6.12 - 6) = 10.88dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

### 802.11ax (HE80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	-1.97	-1.65	-1.90	-1.63	0.39	4.63	16.75	Pass
58	5290	-2.24	-3.35	-2.87	-2.57	0.39	3.67	10.74	Pass
106	5530	-2.45	-2.67	-4.07	-2.70	0.39	3.48	10.88	Pass
122	5610	-2.20	-2.04	-2.99	-2.78	0.39	3.93	10.88	Pass
138	5690 (For U-NII-2C)	-1.92	-2.47	-2.52	-4.61	0.39	3.64	10.88	Pass

Note:

- 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.
- 5180-5250MHz: Directional gain = 6.25dBi > 6dBi, so the power density limit shall be reduced to 17 - (6.25 - 6) = 16.75dBm.
- 5250-5320MHz: Directional gain = 6.26dBi > 6dBi, so the power density limit shall be reduced to 11 - (6.26 - 6) = 10.74dBm.
- 5500-5720MHz: Directional gain = 6.12dBi > 6dBi, so the power density limit shall be reduced to 11 - (6.12 - 6) = 10.88dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE160)

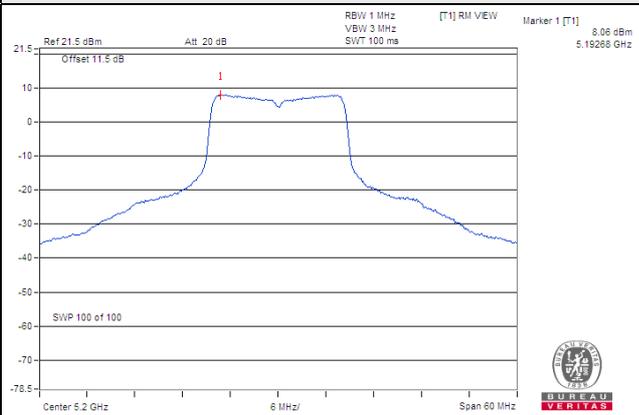
Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
50	5250 (For U-NII-1)	-6.06	-6.66	-6.49	-7.55	0.71	0.07	16.75	Pass
50	5250 (For U-NII-2A)	-9.09	-9.55	-10.47	-10.60	0.71	-3.15	10.74	Pass
114	5570	-6.57	-6.32	-6.57	-6.87	0.71	0.15	10.88	Pass

Note:

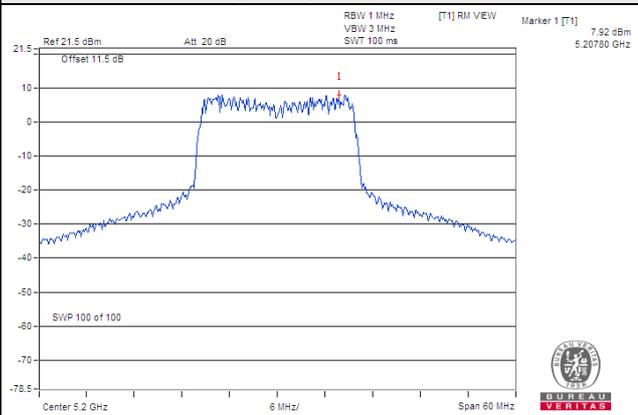
- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- 5180-5250MHz: Directional gain = 6.25dBi > 6dBi, so the power density limit shall be reduced to 17 - (6.25 - 6) = 16.75dBm.
- 5250-5320MHz: Directional gain = 6.26dBi > 6dBi, so the power density limit shall be reduced to 11 - (6.26 - 6) = 10.74dBm.
- 5500-5720MHz: Directional gain = 6.12dBi > 6dBi, so the power density limit shall be reduced to 11 - (6.12 - 6) = 10.88dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

### Spectrum Plot of Worst Value

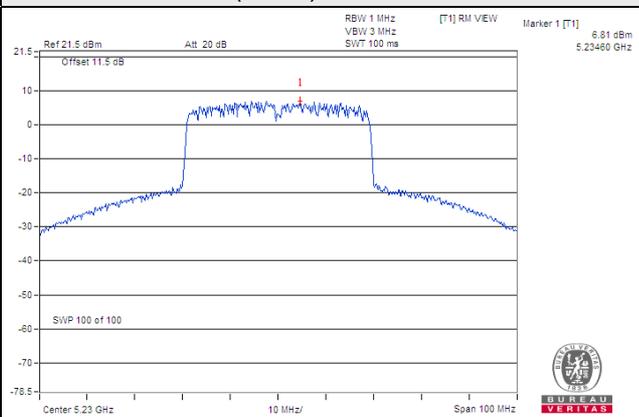
**802.11a / Chain 0 / CH 40**



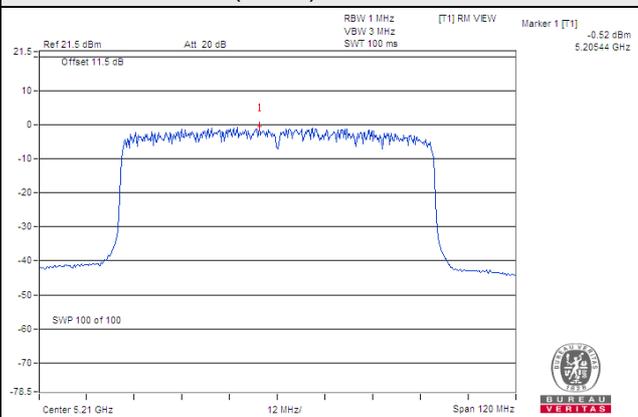
**802.11ax (HE20) / Chain 1 / CH 40**



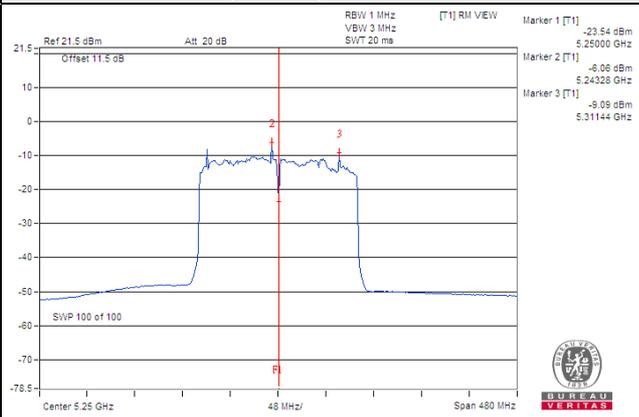
**802.11ax (HE40) / Chain 1 / CH 46**



**802.11ax (HE80) / Chain 3 / CH 42**



**802.11ax (HE160) / Chain 0 / CH 50**



For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD w/o Duty Factor		10 log (N=4) dB	Duty Factor (dB)	Total PSD with Duty Factor (dBm/500kHz)	Limit (dBm/500 kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	144	5720 (For U-NII-3)	-6.50	-4.28	6.02	0.29	2.03	29.94	Pass
	149	5745	-0.50	1.72	6.02	0.29	8.03	29.94	Pass
	157	5785	-0.77	1.45	6.02	0.29	7.76	29.94	Pass
	165	5825	-0.52	1.70	6.02	0.29	8.01	29.94	Pass
1	144	5720 (For U-NII-3)	-6.49	-4.27	6.02	0.29	2.04	29.94	Pass
	149	5745	-0.68	1.54	6.02	0.29	7.85	29.94	Pass
	157	5785	-0.95	1.27	6.02	0.29	7.58	29.94	Pass
	165	5825	-0.62	1.60	6.02	0.29	7.91	29.94	Pass
2	144	5720 (For U-NII-3)	-6.53	-4.31	6.02	0.29	2.00	29.94	Pass
	149	5745	-0.53	1.69	6.02	0.29	8.00	29.94	Pass
	157	5785	-0.81	1.41	6.02	0.29	7.72	29.94	Pass
	165	5825	-0.71	1.51	6.02	0.29	7.82	29.94	Pass
3	144	5720 (For U-NII-3)	-6.50	-4.28	6.02	0.29	2.03	29.94	Pass
	149	5745	-0.56	1.66	6.02	0.29	7.97	29.94	Pass
	157	5785	-1.18	1.04	6.02	0.29	7.35	29.94	Pass
	165	5825	-0.57	1.65	6.02	0.29	7.96	29.94	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure value and add 10 log (N<sub>ANT</sub>) dB.
- Directional gain = 6.06dBi > 6dBi, so the power density limit shall be reduced to 30 - (6.06 - 6) = 29.94dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Chan.	Freq. (MHz)	PSD w/o Duty Factor		10 log (N=4) dB	Duty Factor (dB)	Total PSD with Duty Factor (dBm/500kHz)	Limit (dBm/500 kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	144	5720 (For U-NII-3)	-7.91	-5.69	6.02	0.33	0.66	29.94	Pass
	149	5745	-2.27	-0.05	6.02	0.33	6.30	29.94	Pass
	157	5785	-2.67	-0.45	6.02	0.33	5.90	29.94	Pass
	165	5825	-2.70	-0.48	6.02	0.33	5.87	29.94	Pass
1	144	5720 (For U-NII-3)	-8.11	-5.89	6.02	0.33	0.46	29.94	Pass
	149	5745	-2.09	0.13	6.02	0.33	6.48	29.94	Pass
	157	5785	-2.72	-0.50	6.02	0.33	5.85	29.94	Pass
	165	5825	-2.46	-0.24	6.02	0.33	6.11	29.94	Pass
2	144	5720 (For U-NII-3)	-7.87	-5.65	6.02	0.33	0.70	29.94	Pass
	149	5745	-2.72	-0.50	6.02	0.33	5.85	29.94	Pass
	157	5785	-2.59	-0.37	6.02	0.33	5.98	29.94	Pass
	165	5825	-2.04	0.18	6.02	0.33	6.53	29.94	Pass
3	144	5720 (For U-NII-3)	-8.23	-6.01	6.02	0.33	0.34	29.94	Pass
	149	5745	-1.98	0.24	6.02	0.33	6.59	29.94	Pass
	157	5785	-2.67	-0.45	6.02	0.33	5.90	29.94	Pass
	165	5825	-2.71	-0.49	6.02	0.33	5.86	29.94	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure value and add  $10 \log (N_{ANT})$  dB.
- Directional gain = 6.06dBi > 6dBi, so the power density limit shall be reduced to  $30 - (6.06 - 6) = 29.94$ dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

### 802.11ax (HE40)

TX chain	Chan.	Freq. (MHz)	PSD w/o Duty Factor		10 log (N=4) dB	Duty Factor (dB)	Total PSD with Duty Factor (dBm/500kHz)	Limit (dBm/500 kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	142	5710 (For U-NII-3)	-12.95	-10.73	6.02	0.40	-4.31	29.94	Pass
	151	5755	-4.84	-2.62	6.02	0.40	3.80	29.94	Pass
	159	5795	-4.42	-2.20	6.02	0.40	4.22	29.94	Pass
1	142	5710 (For U-NII-3)	-12.34	-10.12	6.02	0.40	-3.70	29.94	Pass
	151	5755	-5.19	-2.97	6.02	0.40	3.45	29.94	Pass
	159	5795	-4.38	-2.16	6.02	0.40	4.26	29.94	Pass
2	142	5710 (For U-NII-3)	-12.56	-10.34	6.02	0.40	-3.92	29.94	Pass
	151	5755	-4.93	-2.71	6.02	0.40	3.71	29.94	Pass
	159	5795	-4.28	-2.06	6.02	0.40	4.36	29.94	Pass
3	142	5710 (For U-NII-3)	-12.44	-10.22	6.02	0.40	-3.80	29.94	Pass
	151	5755	-4.62	-2.40	6.02	0.40	4.02	29.94	Pass
	159	5795	-4.27	-2.05	6.02	0.40	4.37	29.94	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure value and add  $10 \log (N_{ANT})$  dB.
- Directional gain = 6.06dBi > 6dBi, so the power density limit shall be reduced to  $30 - (6.06 - 6) = 29.94$ dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

### 802.11ax (HE80)

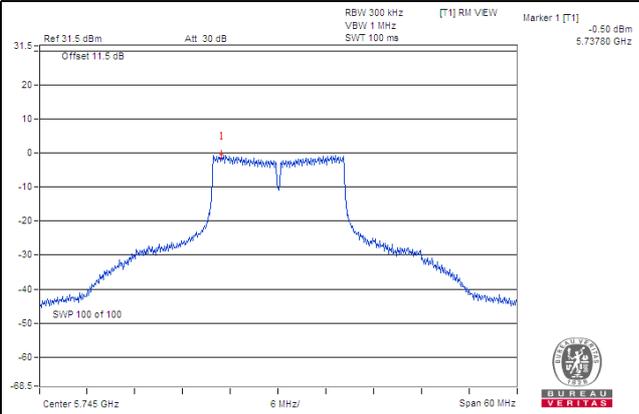
TX chain	Chan.	Freq. (MHz)	PSD w/o Duty Factor		10 log (N=4) dB	Duty Factor (dB)	Total PSD with Duty Factor (dBm/500kHz)	Limit (dBm/500 kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	138	5690 (For U-NII-3)	-16.54	-14.32	6.02	0.39	-7.91	29.94	Pass
	155	5775	-8.92	-6.70	6.02	0.39	-0.29	29.94	Pass
1	138	5690 (For U-NII-3)	-16.24	-14.02	6.02	0.39	-7.61	29.94	Pass
	155	5775	-9.29	-7.07	6.02	0.39	-0.66	29.94	Pass
2	138	5690 (For U-NII-3)	-16.21	-13.99	6.02	0.39	-7.58	29.94	Pass
	155	5775	-9.42	-7.20	6.02	0.39	-0.79	29.94	Pass
3	138	5690 (For U-NII-3)	-16.58	-14.36	6.02	0.39	-7.95	29.94	Pass
	155	5775	-9.08	-6.86	6.02	0.39	-0.45	29.94	Pass

Note:

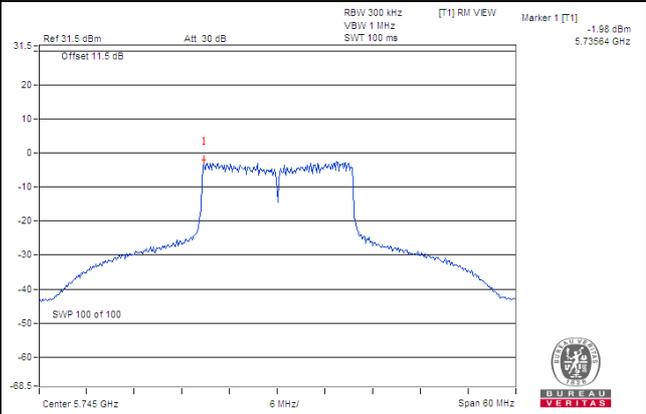
- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure value and add  $10 \log (N_{ANT})$  dB.
- Directional gain = 6.06dBi > 6dBi, so the power density limit shall be reduced to  $30 - (6.06 - 6) = 29.94$ dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

### Spectrum Plot of Worst Value

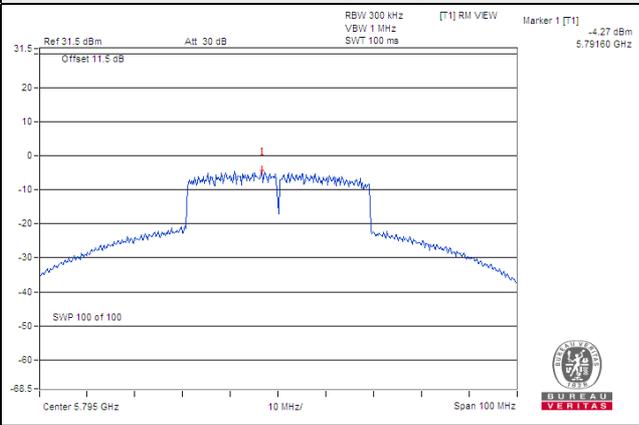
#### 802.11a



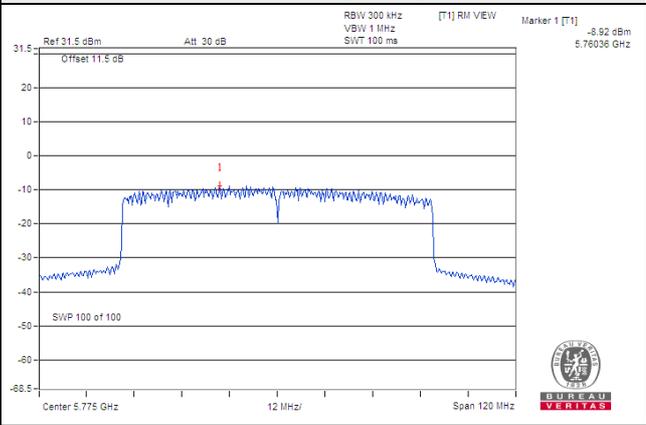
#### 802.11ax (HE20)



#### 802.11ax (HE40)



#### 802.11ax (HE80)



2TX (WAX620E)

For U-NII-1, U-NII-2A and U-NII-2C band:

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 2	Chain 3				
36	5180	7.92	7.86	0.16	11.06	17.00	Pass
40	5200	11.00	11.19	0.16	14.27	17.00	Pass
48	5240	10.88	10.92	0.16	14.07	17.00	Pass
52	5260	6.97	6.60	0.16	9.96	11.00	Pass
60	5300	7.04	6.92	0.16	10.15	11.00	Pass
64	5320	7.01	6.89	0.16	10.12	11.00	Pass
100	5500	7.03	6.81	0.16	10.09	11.00	Pass
116	5580	7.27	6.89	0.16	10.26	11.00	Pass
140	5700	6.47	5.97	0.16	9.40	11.00	Pass
144	5720 (For U-NII-2C)	7.18	7.13	0.16	10.33	11.00	Pass

Note:

- 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.
- 5180-5250MHz: Directional gain = 4.42dBi < 6dBi, so the power density limit not need to reduce.
- 5250-5320MHz: Directional gain = 4.38dBi < 6dBi, so the power density limit not need to reduce.
- 5500-5720MHz: Directional gain = 4.17dBi < 6dBi, so the power density limit not need to reduce.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 2	Chain 3				
36	5180	8.13	8.10	0.38	11.51	17.00	Pass
40	5200	10.60	10.03	0.38	13.72	17.00	Pass
48	5240	11.07	10.94	0.38	14.40	17.00	Pass
52	5260	6.63	6.44	0.38	9.93	11.00	Pass
60	5300	7.23	6.48	0.38	10.26	11.00	Pass
64	5320	6.99	6.01	0.38	9.92	11.00	Pass
100	5500	5.65	6.29	0.38	9.38	11.00	Pass
116	5580	6.48	6.71	0.38	9.99	11.00	Pass
140	5700	6.48	5.54	0.38	9.43	11.00	Pass
144	5720 (For U-NII-2C)	5.51	7.12	0.38	9.78	11.00	Pass

Note:

- 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.
- 5180-5250MHz: Directional gain = 4.42dBi < 6dBi, so the power density limit not need to reduce.
- 5250-5320MHz: Directional gain = 4.38dBi < 6dBi, so the power density limit not need to reduce.
- 5500-5720MHz: Directional gain = 4.17dBi < 6dBi, so the power density limit not need to reduce.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 2	Chain 3				
38	5190	3.69	3.76	0.33	7.07	17.00	Pass
46	5230	7.01	5.19	0.33	9.54	17.00	Pass
54	5270	2.79	3.89	0.33	6.72	11.00	Pass
62	5310	4.07	3.47	0.33	7.12	11.00	Pass
102	5510	2.59	2.60	0.33	5.94	11.00	Pass
110	5550	2.56	3.57	0.33	6.44	11.00	Pass
134	5670	3.06	2.24	0.33	6.01	11.00	Pass
142	5710 (For U-NII-2C)	3.91	3.86	0.33	7.23	11.00	Pass

Note:

- 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.
- 5180-5250MHz: Directional gain = 4.42dBi < 6dBi, so the power density limit not need to reduce.
- 5250-5320MHz: Directional gain = 4.38dBi < 6dBi, so the power density limit not need to reduce.
- 5500-5720MHz: Directional gain = 4.17dBi < 6dBi, so the power density limit not need to reduce.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 2	Chain 3				
42	5210	-0.04	-0.23	0.33	3.21	17.00	Pass
58	5290	-0.26	-0.59	0.33	2.92	11.00	Pass
106	5530	-0.32	-1.01	0.33	2.69	11.00	Pass
122	5610	0.97	-1.06	0.33	3.41	11.00	Pass
138	5690 (For U-NII-2C)	-0.07	0.71	0.33	3.68	11.00	Pass

Note:

- 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.
- 5180-5250MHz: Directional gain = 4.42dBi < 6dBi, so the power density limit not need to reduce.
- 5250-5320MHz: Directional gain = 4.38dBi < 6dBi, so the power density limit not need to reduce.
- 5500-5720MHz: Directional gain = 4.17dBi < 6dBi, so the power density limit not need to reduce.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE160)

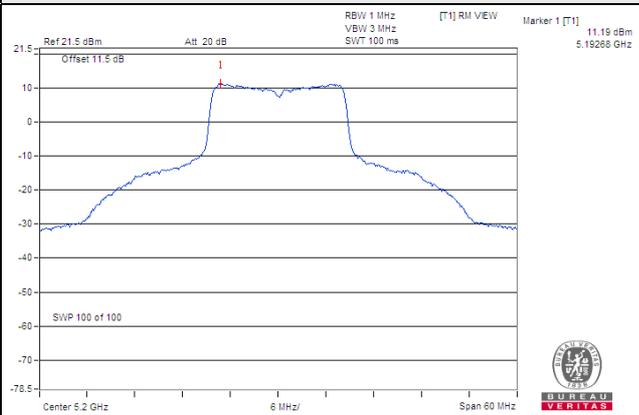
Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 2	Chain 3				
50	5250 (For U-NII-1)	-3.56	-3.38	0.37	-0.09	17.00	Pass
50	5250 (For U-NII-2A)	-4.91	-6.57	0.37	-2.28	11.00	Pass
114	5570	-3.55	-4.02	0.37	-0.40	11.00	Pass

Note:

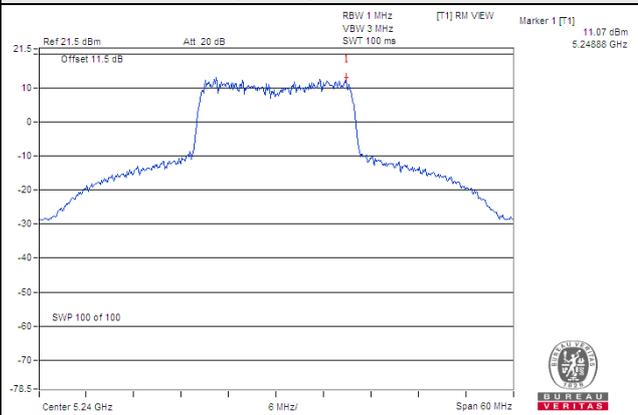
- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- 5180-5250MHz: Directional gain = 4.42dBi < 6dBi, so the power density limit not need to reduce.
- 5250-5320MHz: Directional gain = 4.38dBi < 6dBi, so the power density limit not need to reduce.
- 5500-5720MHz: Directional gain = 4.17dBi < 6dBi, so the power density limit not need to reduce.
- Refer to section 3.3 for duty cycle spectrum plot.

### Spectrum Plot of Worst Value

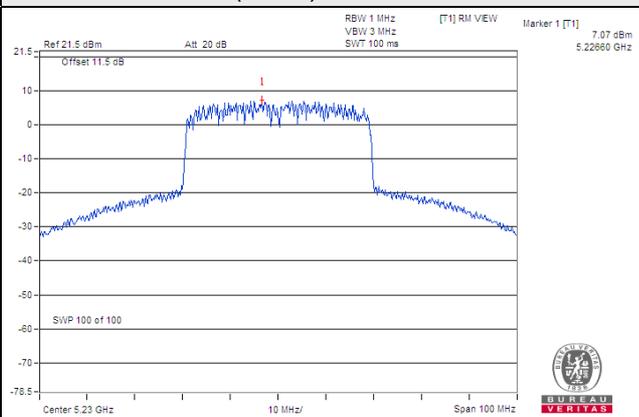
**802.11a / Chain 3 / CH 40**



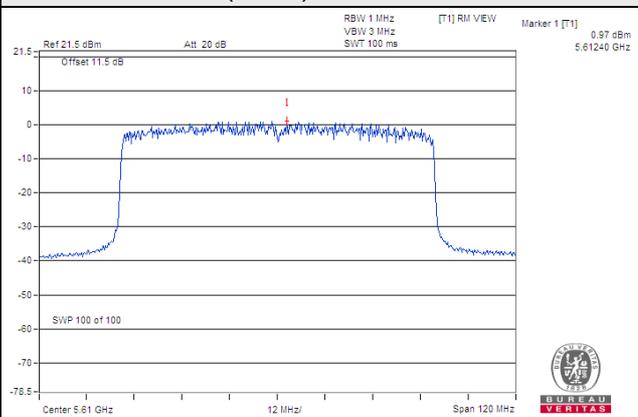
**802.11ax (HE20) / Chain 2 / CH 48**



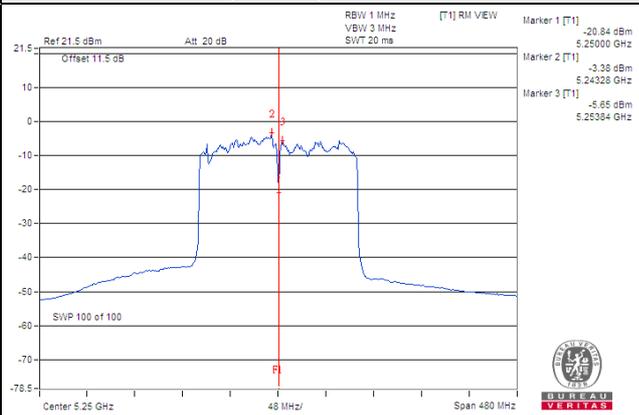
**802.11ax (HE40) / Chain 2 / CH 46**



**802.11ax (HE80) / Chain 2 / CH 122**



**802.11ax (HE160) / Chain 3 / CH 50**



For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
2	144	5720 (For U-NII-3)	-2.99	-0.77	3.01	0.16	2.40	30.00	Pass
	149	5745	2.77	4.99	3.01	0.16	8.16	30.00	Pass
	157	5785	2.42	4.64	3.01	0.16	7.81	30.00	Pass
	165	5825	1.49	3.71	3.01	0.16	6.88	30.00	Pass
3	144	5720 (For U-NII-3)	-2.85	-0.63	3.01	0.16	2.54	30.00	Pass
	149	5745	2.81	5.03	3.01	0.16	8.20	30.00	Pass
	157	5785	2.28	4.50	3.01	0.16	7.67	30.00	Pass
	165	5825	1.20	3.42	3.01	0.16	6.59	30.00	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure value and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 4.11dBi < 6dBi, so the power density limit not need to reduce.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
2	144	5720 (For U-NII-3)	-4.46	-2.24	3.01	0.38	1.15	30.00	Pass
	149	5745	0.47	2.69	3.01	0.38	6.08	30.00	Pass
	157	5785	0.06	2.28	3.01	0.38	5.67	30.00	Pass
	165	5825	-1.21	1.01	3.01	0.38	4.40	30.00	Pass
3	144	5720 (For U-NII-3)	-4.75	-2.53	3.01	0.38	0.86	30.00	Pass
	149	5745	0.60	2.82	3.01	0.38	6.21	30.00	Pass
	157	5785	0.55	2.77	3.01	0.38	6.16	30.00	Pass
	165	5825	-0.61	1.61	3.01	0.38	5.00	30.00	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure value and add 10 log (N<sub>ANT</sub>) dB.
2. Directional gain = 4.11dBi < 6dBi, so the power density limit not need to reduce.
3. Refer to section 3.3 for duty cycle spectrum plot.

### 802.11ax (HE40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
2	142	5710 (For U-NII-3)	-9.94	-7.72	3.01	0.33	-4.38	30.00	Pass
	151	5755	-2.30	-0.08	3.01	0.33	3.26	30.00	Pass
	159	5795	-3.14	-0.92	3.01	0.33	2.42	30.00	Pass
3	142	5710 (For U-NII-3)	-9.36	-7.14	3.01	0.33	-3.80	30.00	Pass
	151	5755	-2.02	0.20	3.01	0.33	3.54	30.00	Pass
	159	5795	-3.07	-0.85	3.01	0.33	2.49	30.00	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure value and add  $10 \log (N_{ANT})$  dB.
2. Directional gain = 4.11dBi < 6dBi, so the power density limit not need to reduce.
3. Refer to section 3.3 for duty cycle spectrum plot.

### 802.11ax (HE80)

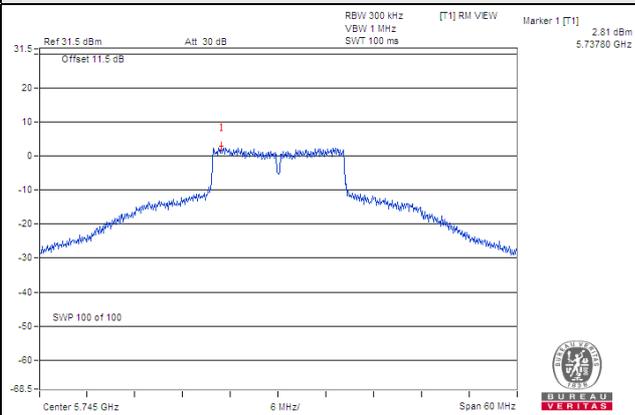
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
2	138	5690 (For U-NII-3)	-12.93	-10.71	3.01	0.33	-7.37	30.00	Pass
	155	5775	-7.74	-5.52	3.01	0.33	-2.18	30.00	Pass
3	138	5690 (For U-NII-3)	-13.33	-11.11	3.01	0.33	-7.77	30.00	Pass
	155	5775	-8.18	-5.96	3.01	0.33	-2.62	30.00	Pass

Note:

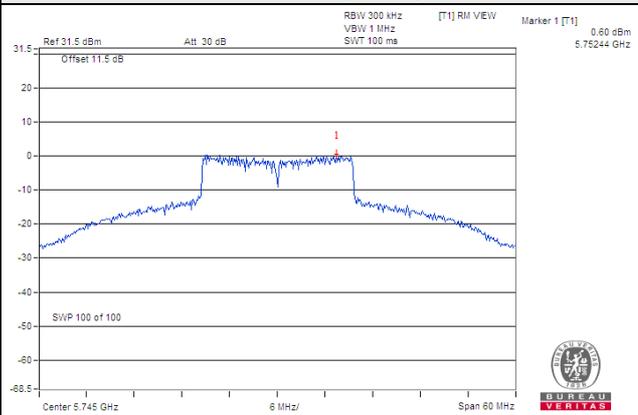
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure value and add  $10 \log (N_{ANT})$  dB.
2. Directional gain = 4.11dBi < 6dBi, so the power density limit not need to reduce.
3. Refer to section 3.3 for duty cycle spectrum plot.

### Spectrum Plot of Worst Value

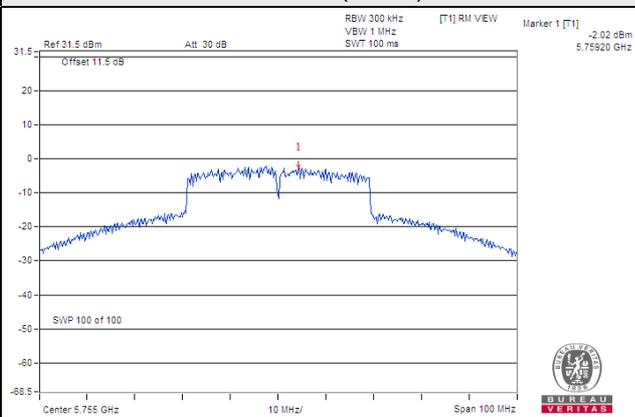
#### 802.11a



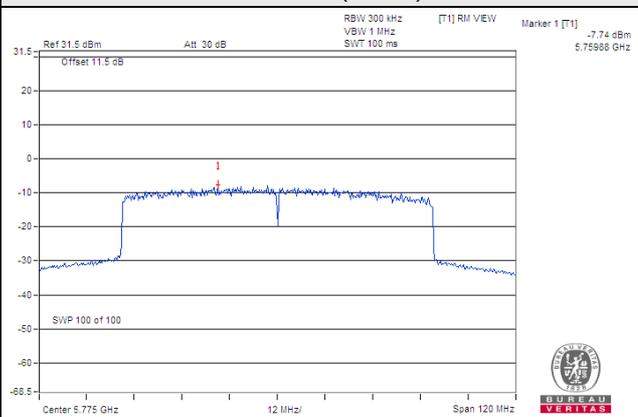
#### 802.11ax (HE20)



#### 802.11ax (HE40)



#### 802.11ax (HE80)

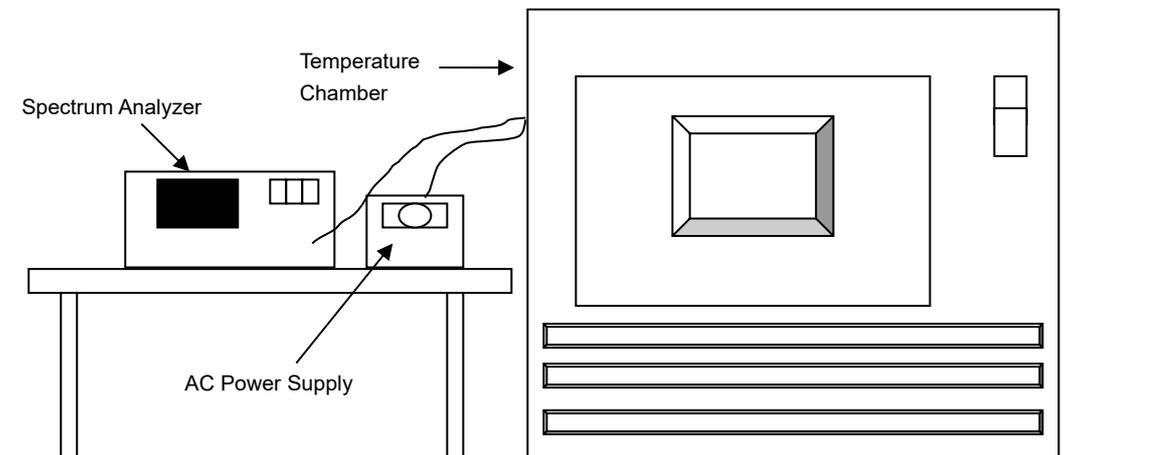


## 4.6 Frequency Stability

### 4.6.1 Limits of Frequency Stability Measurement

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

### 4.6.2 Test Setup



### 4.6.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 16, 2020	Sep. 15, 2021
			Sep. 15, 2021	Sep. 14, 2022
Standard Temperature And Humidity Chamber TERCHY	HRM-120RF	931022	Dec. 24, 2020	Dec. 23, 2021
Digital Multimeter Fluke	87-III	70360755	Jul. 10, 2020	Jul. 09, 2021
			Jul. 08, 2021	Jul. 07, 2022
AC Power Supply Extech	CFW-105	E000603	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 4.6.4 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 every 10 degrees reduction until the lowest temperature achieved.
- 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.

#### 4.6.5 Deviation from Test Standard

No deviation.

#### 4.6.6 EUT Operating Condition

Set the EUT transmit at un-modulation mode to test frequency stability.

#### 4.6.7 Test Results

4TX (WAX630E)

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
40	120	5180.0065	Pass	5180.0058	Pass	5180.0096	Pass	5180.0066	Pass
30	120	5179.9785	Pass	5179.9789	Pass	5179.9817	Pass	5179.9812	Pass
20	120	5179.999	Pass	5179.9985	Pass	5179.9988	Pass	5179.9974	Pass
10	120	5179.9823	Pass	5179.9812	Pass	5179.9841	Pass	5179.9836	Pass
0	120	5180.0163	Pass	5180.0181	Pass	5180.0173	Pass	5180.0145	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5179.9995	Pass	5179.9994	Pass	5179.9997	Pass	5179.9964	Pass
	120	5179.999	Pass	5179.9985	Pass	5179.9988	Pass	5179.9974	Pass
	102	5179.9988	Pass	5179.9987	Pass	5179.9998	Pass	5179.9967	Pass

2TX (WAX620E)

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
40	120	5179.9795	Pass	5179.9788	Pass	5179.9785	Pass	5179.9798	Pass
30	120	5179.9994	Pass	5180.0002	Pass	5179.9989	Pass	5179.9989	Pass
20	120	5179.985	Pass	5179.9839	Pass	5179.9846	Pass	5179.9813	Pass
10	120	5180.0264	Pass	5180.0251	Pass	5180.023	Pass	5180.0232	Pass
0	120	5179.9946	Pass	5179.9943	Pass	5179.9957	Pass	5179.9937	Pass

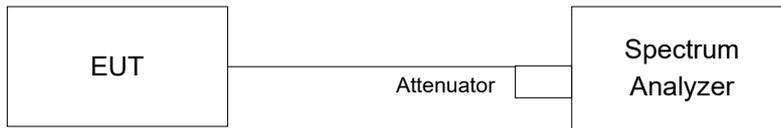
Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5179.9844	Pass	5179.9838	Pass	5179.9839	Pass	5179.9823	Pass
	120	5179.985	Pass	5179.9839	Pass	5179.9846	Pass	5179.9813	Pass
	102	5179.9859	Pass	5179.9841	Pass	5179.9845	Pass	5179.9803	Pass

## 4.7 6dB Bandwidth Measurement

### 4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

### 4.7.2 Test Setup



### 4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.7.4 Test Procedure

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW)  $\geq 3 \times$  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

### 4.7.5 Deviation from Test Standard

No deviation.

### 4.7.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

#### 4.7.7 Test Results

#### 4TX (WAX630E)

##### 802.11a

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
144	5720 (For U-NII-3)	3.21	3.21	3.21	3.21	0.50	Pass
149	5745	16.38	16.38	16.39	16.38	0.50	Pass
157	5785	16.41	16.41	16.41	16.40	0.50	Pass
165	5825	16.41	16.39	16.38	16.38	0.50	Pass

For CH144 (U-NII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

##### 802.11ax (HE20)

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
144	5720 (For U-NII-3)	4.58	4.58	4.59	4.55	0.50	Pass
149	5745	19.04	19.08	19.07	19.10	0.50	Pass
157	5785	19.10	19.08	19.06	19.17	0.50	Pass
165	5825	19.07	19.06	19.07	19.06	0.50	Pass

For CH144 (U-NII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

##### 802.11ax (HE40)

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
142	5710 (For U-NII-3)	3.79	4.00	3.80	3.63	0.50	Pass
151	5755	37.68	37.99	37.58	37.20	0.50	Pass
159	5795	37.26	37.27	37.46	37.86	0.50	Pass

For CH142 (U-NII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

##### 802.11ax (HE80)

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
138	5690 (For U-NII-3)	3.95	3.71	3.73	4.06	0.50	Pass
155	5775	75.2	76.21	76.83	76.16	0.50	Pass

For CH138 (U-NII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz



2TX (WAX620E)

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 2	Chain 3		
144	5720 (For U-NII-3)	3.20	3.20	0.50	Pass
149	5745	16.40	16.40	0.50	Pass
157	5785	16.42	16.42	0.50	Pass
165	5825	16.44	16.44	0.50	Pass

For CH144 (U-NII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 2	Chain 3		
144	5720 (For U-NII-3)	4.56	4.56	0.50	Pass
149	5745	19.09	19.04	0.50	Pass
157	5785	19.09	19.12	0.50	Pass
165	5825	19.07	19.14	0.50	Pass

For CH144 (U-NII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 2	Chain 3		
142	5710 (For U-NII-3)	3.80	3.61	0.50	Pass
151	5755	37.28	37.86	0.50	Pass
159	5795	37.22	35.60	0.50	Pass

For CH142 (U-NII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

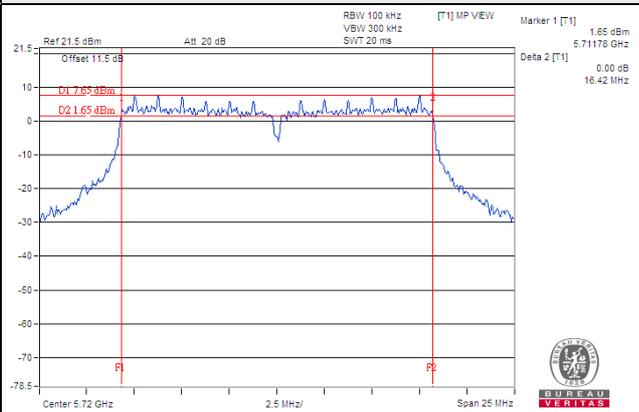
802.11ax (HE80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 2	Chain 3		
138	5690 (For U-NII-3)	3.96	3.87	0.50	Pass
155	5775	76.77	76.85	0.50	Pass

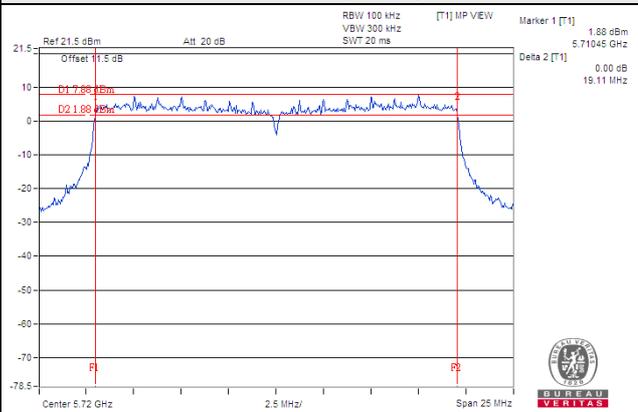
For CH138 (U-NII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

### Spectrum Plot of Worst Value

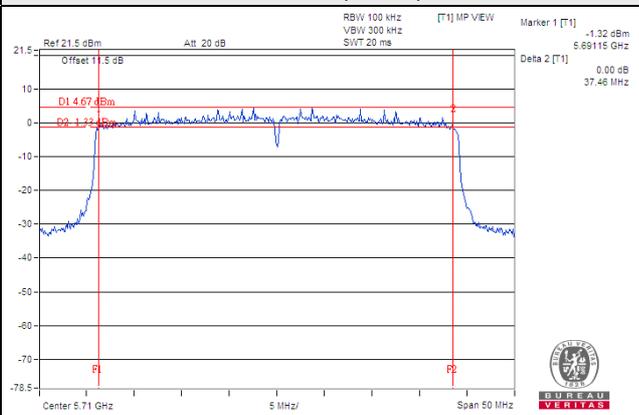
#### 802.11a



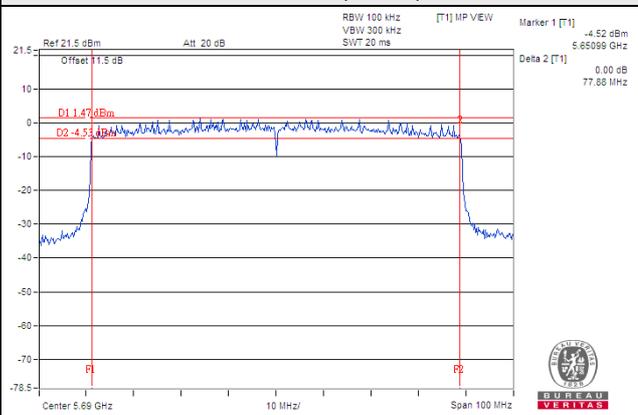
#### 802.11ax (HE20)



#### 802.11ax (HE40)



#### 802.11ax (HE80)



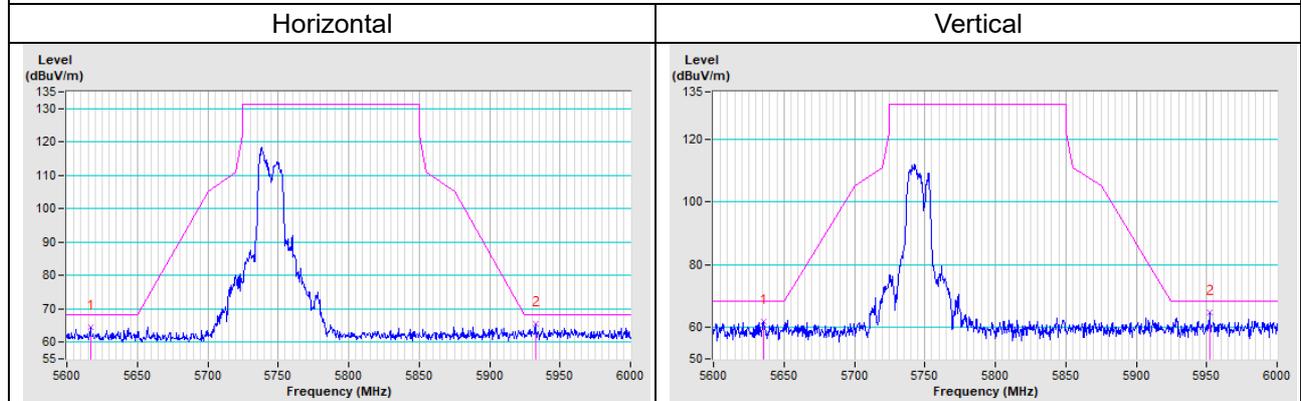
## 5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

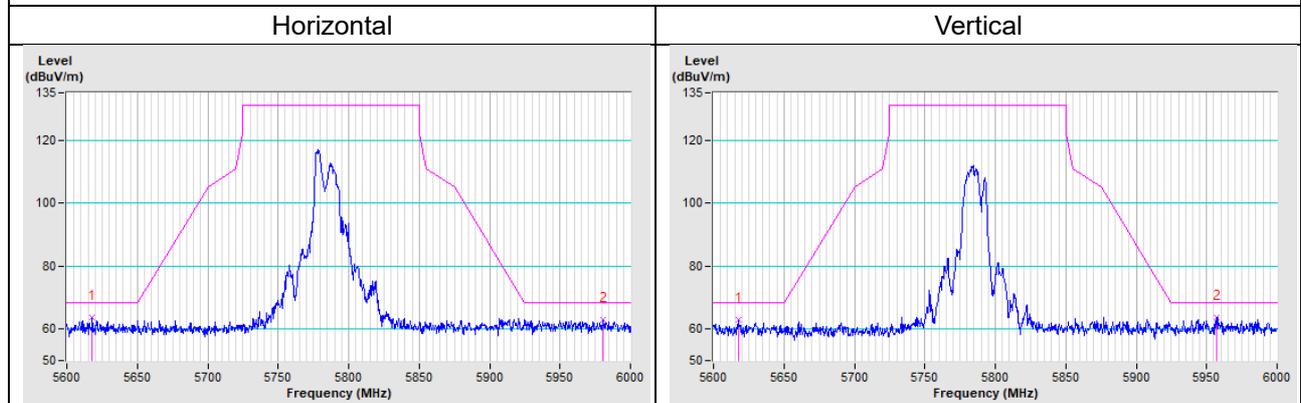
## Annex A - Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

4TX (WAX630E)

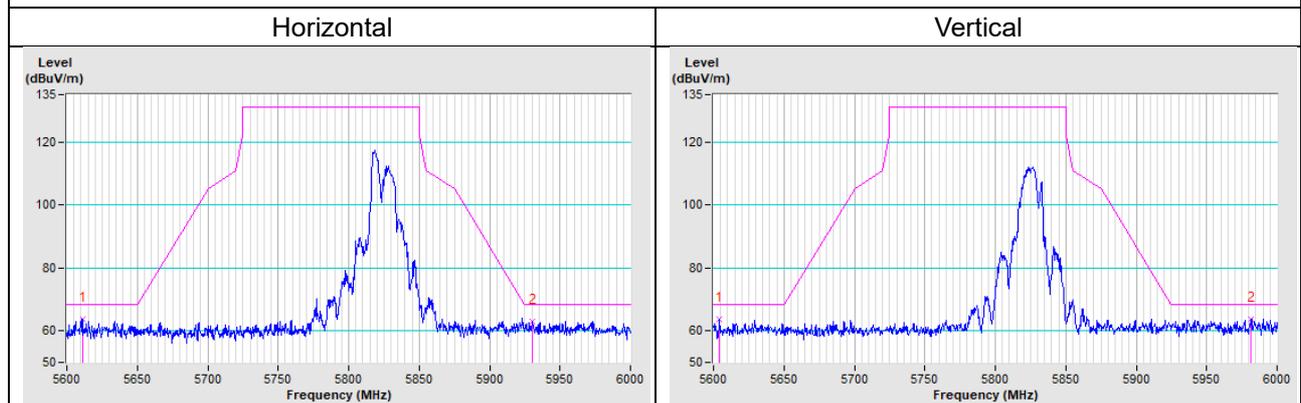
802.11a CH 149 : 5745 MHz



802.11a CH 157 : 5785 MHz

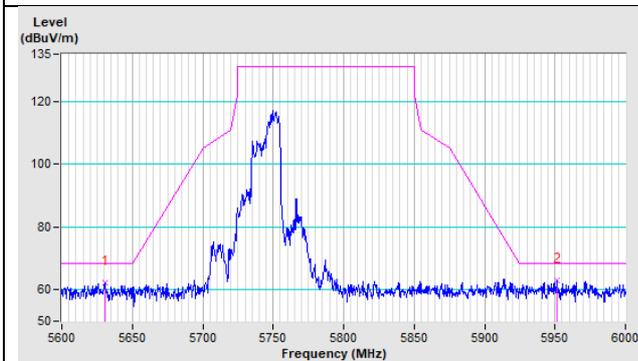


802.11a CH 165 : 5825 MHz

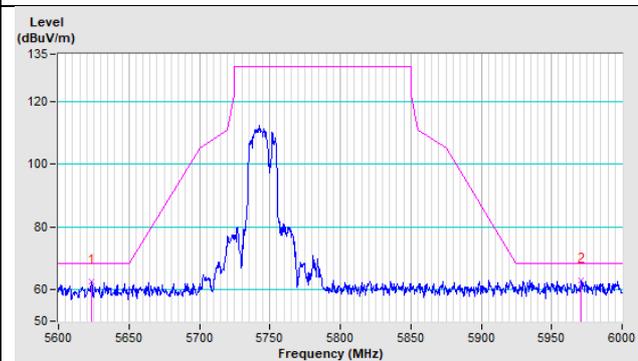


802.11ax (HE20) CH 149 : 5745 MHz

Horizontal

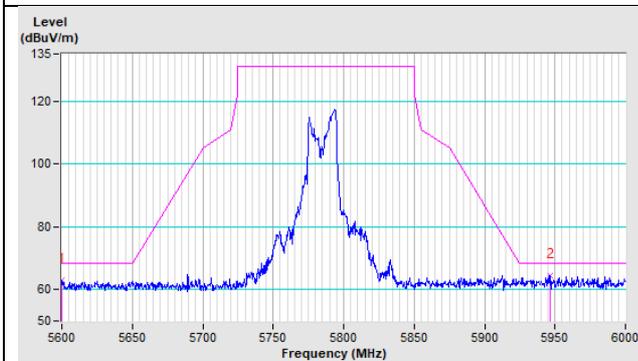


Vertical

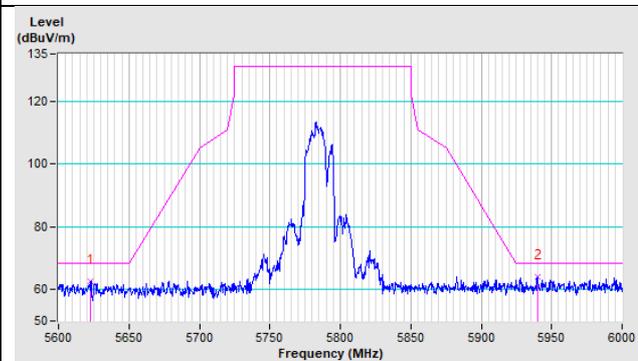


802.11ax (HE20) CH 157 : 5785 MHz

Horizontal

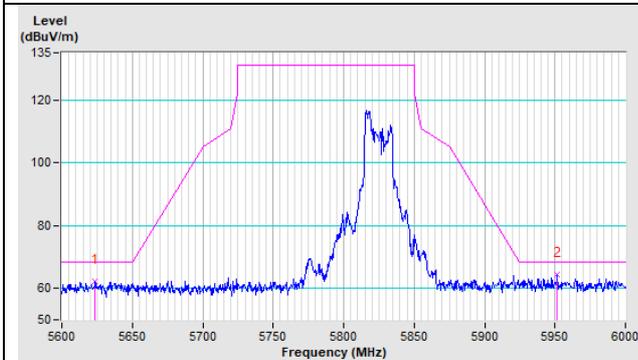


Vertical

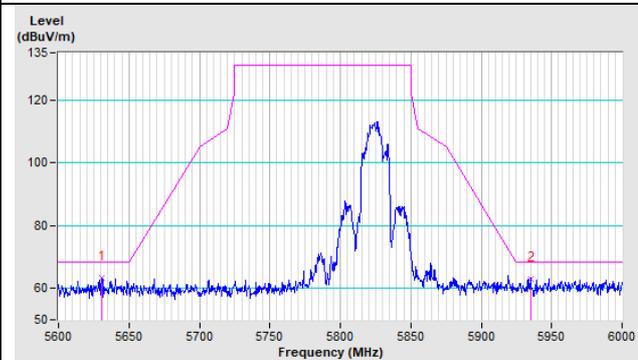


802.11ax (HE20) CH 165 : 5825 MHz

Horizontal



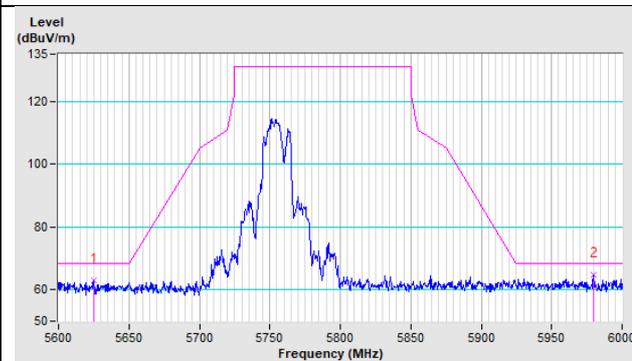
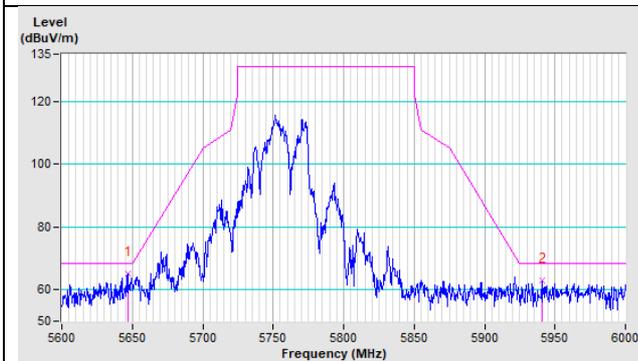
Vertical



802.11ax (HE40) CH 151 : 5755 MHz

Horizontal

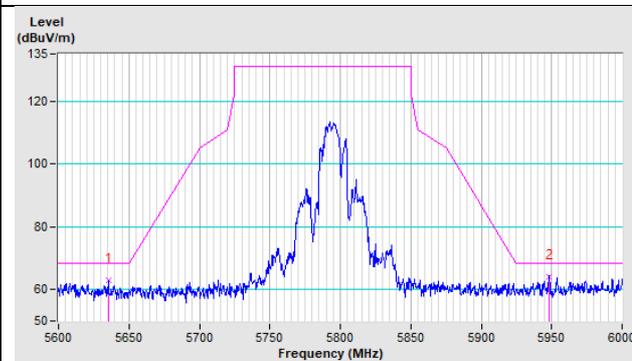
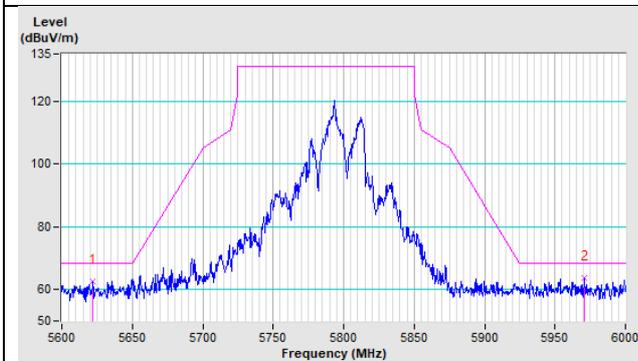
Vertical



802.11ax (HE40) CH 159 : 5795 MHz

Horizontal

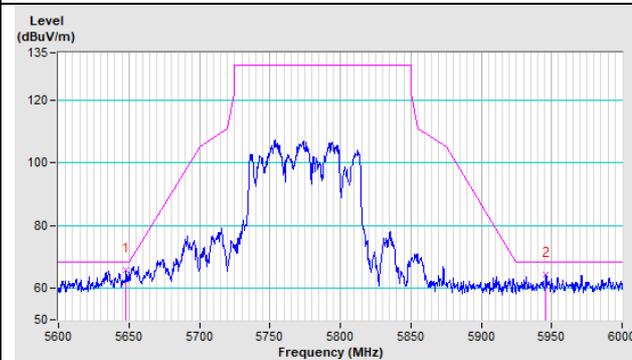
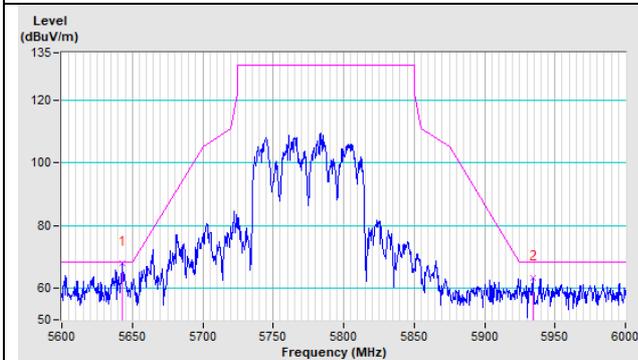
Vertical



802.11ax (HE80) CH 155 : 5775 MHz

Horizontal

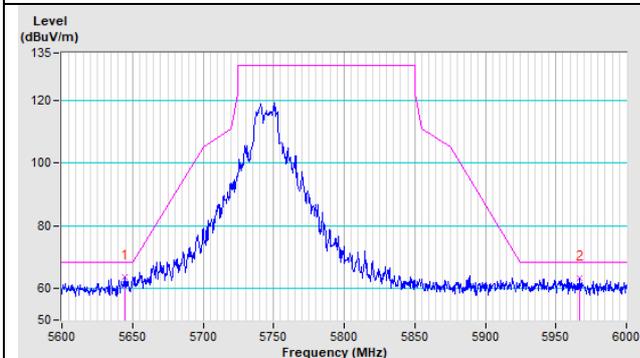
Vertical



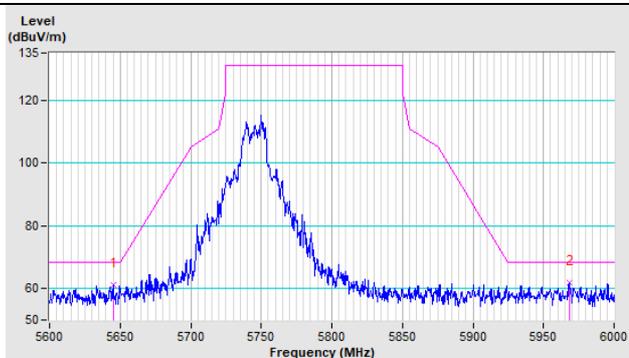
2TX (WAX620E)

802.11a CH 149 : 5745 MHz

Horizontal

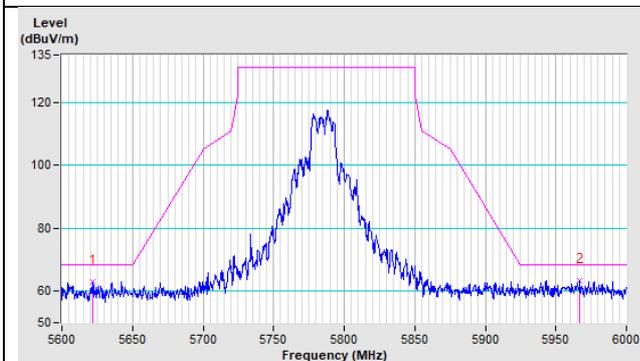


Vertical

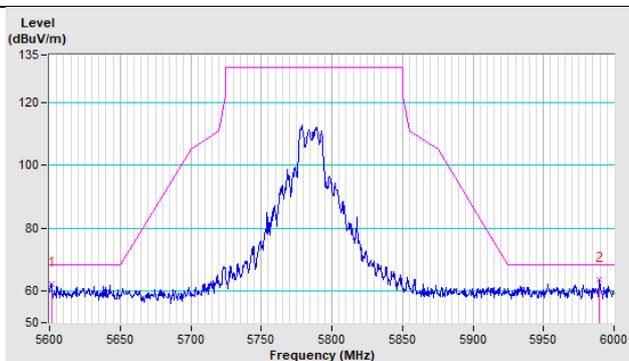


802.11a CH 157 : 5785 MHz

Horizontal

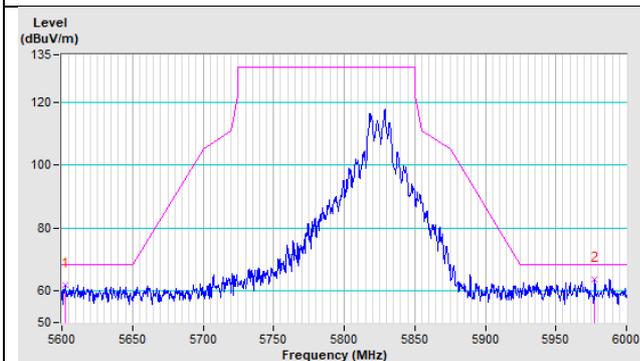


Vertical

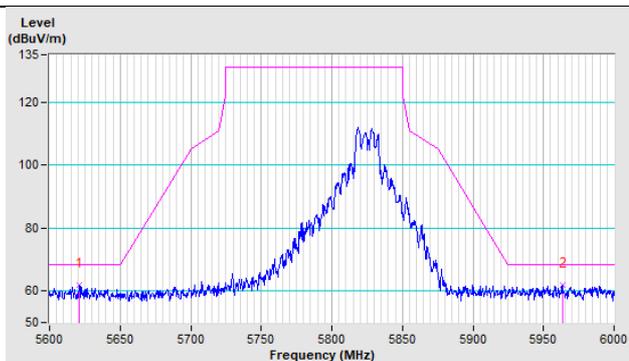


802.11a CH 165 : 5825 MHz

Horizontal

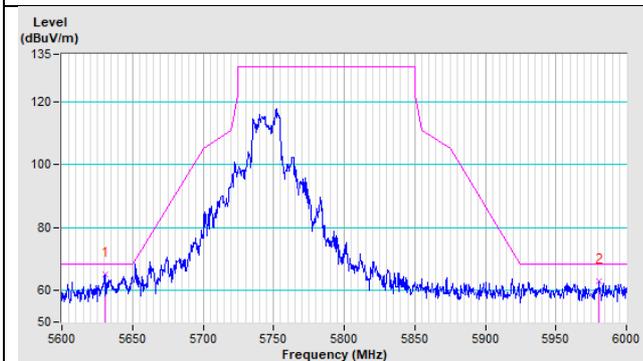


Vertical

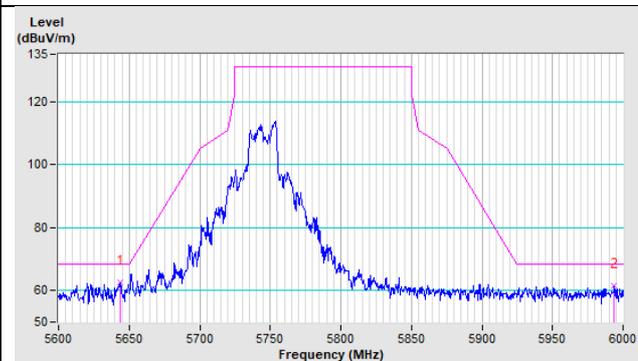


802.11ax (HE20) CH 149 : 5745 MHz

Horizontal

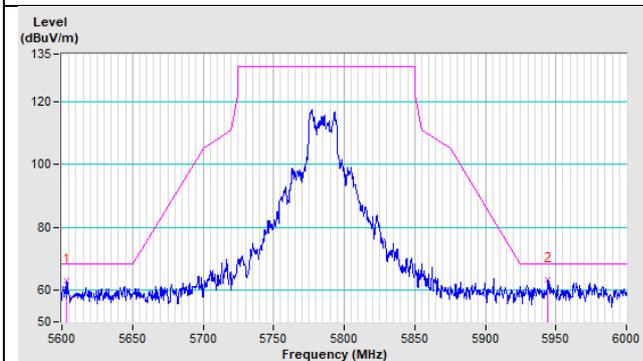


Vertical

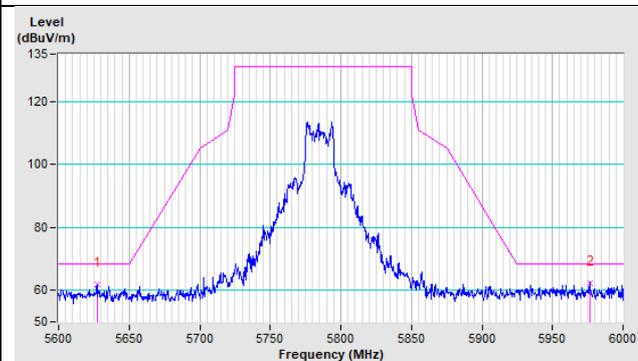


802.11ax (HE20) CH 157 : 5785 MHz

Horizontal

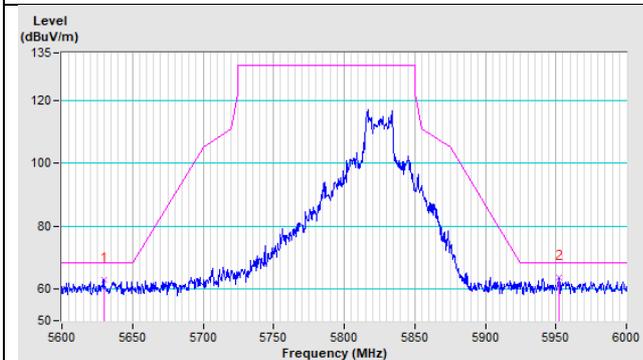


Vertical

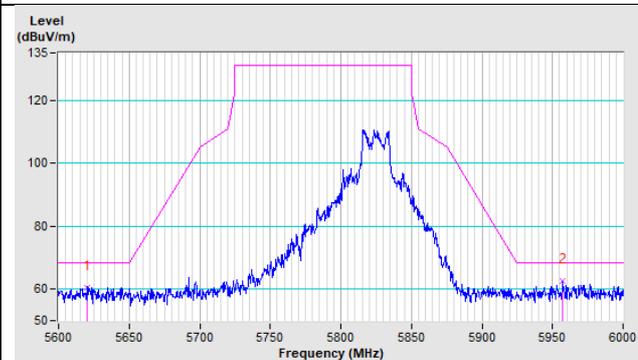


802.11ax (HE20) CH 165 : 5825 MHz

Horizontal

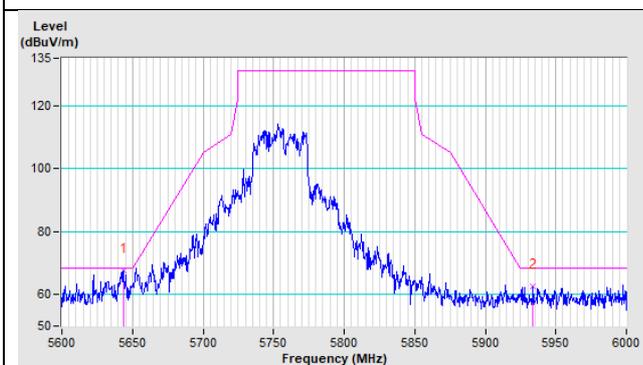


Vertical

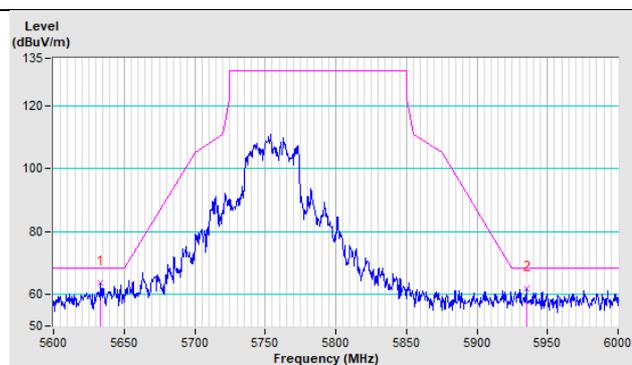


802.11ax (HE40) CH 151 : 5755 MHz

Horizontal

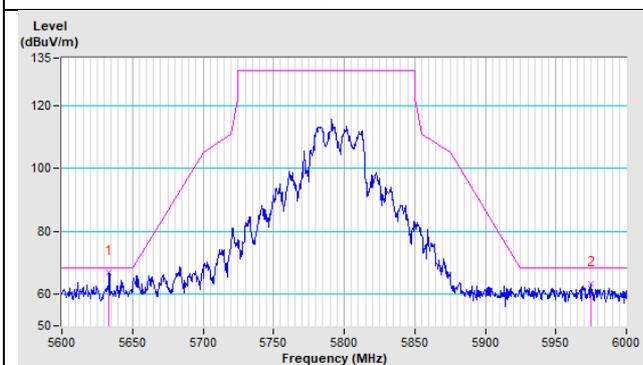


Vertical

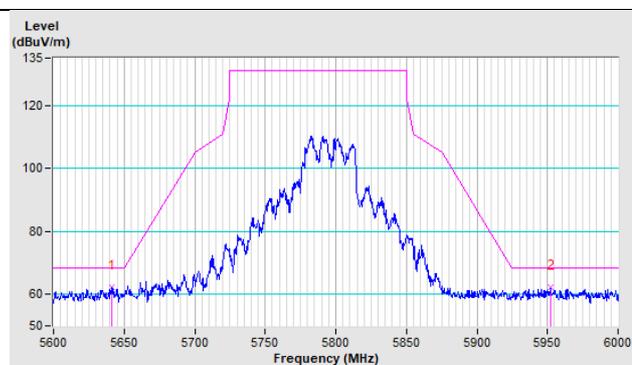


802.11ax (HE40) CH 159 : 5795 MHz

Horizontal

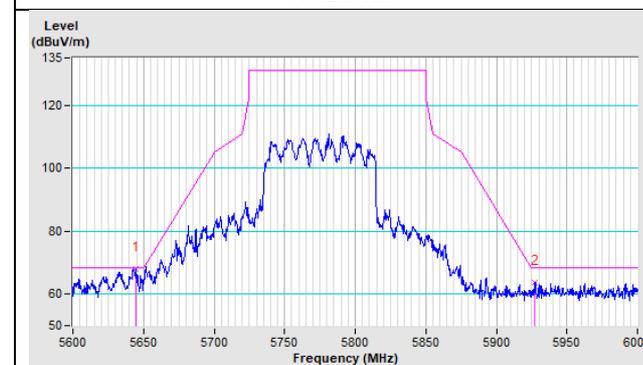


Vertical

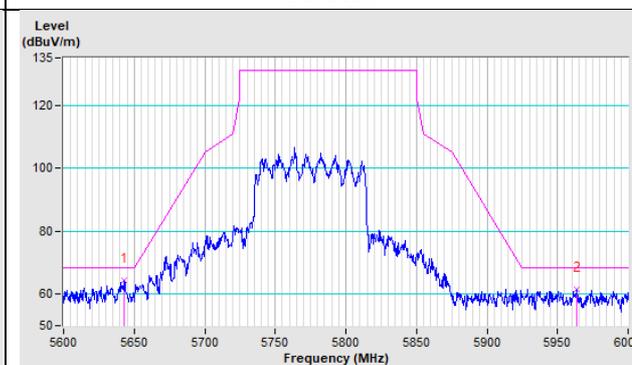


802.11ax (HE80) CH 155 : 5775 MHz

Horizontal

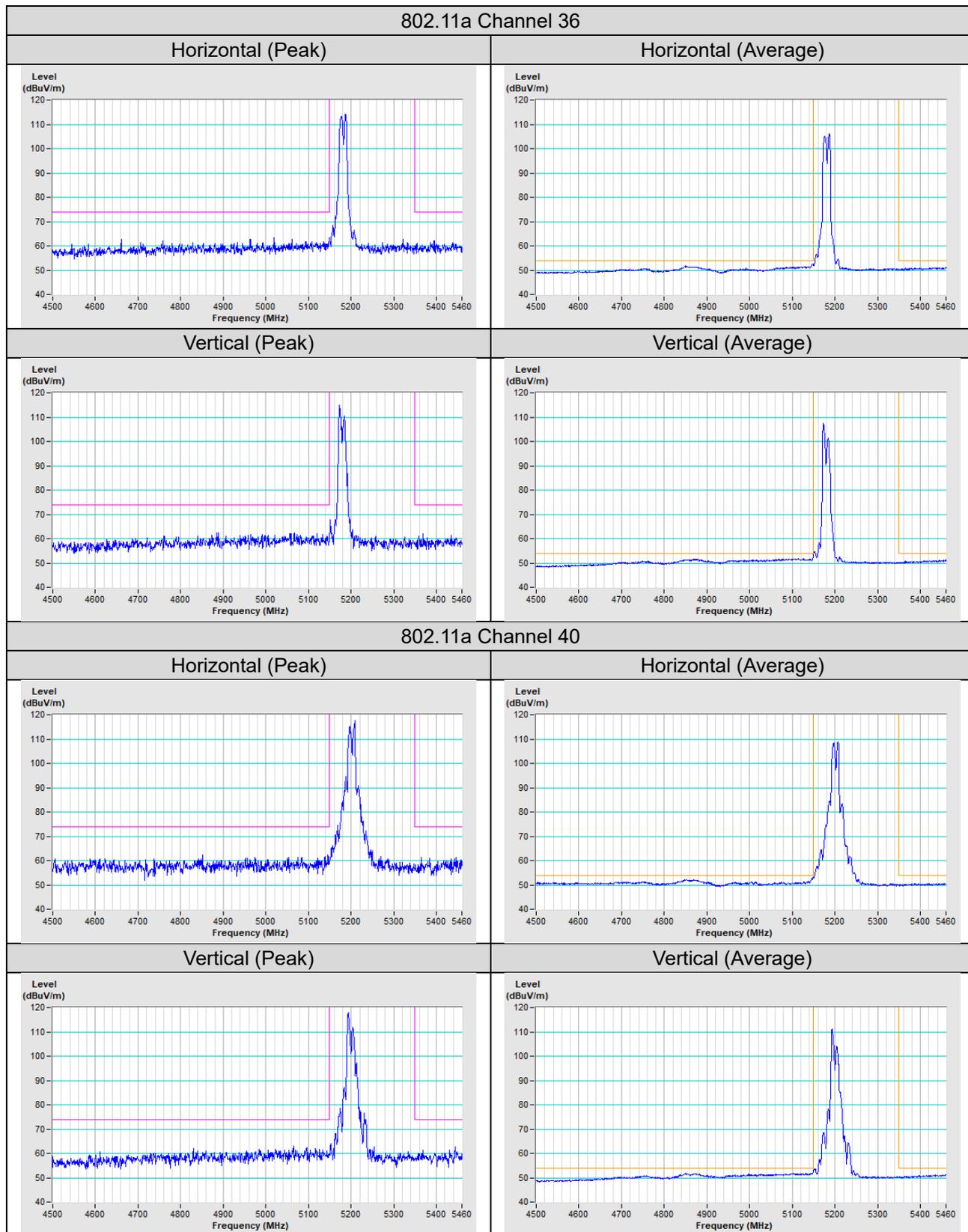


Vertical



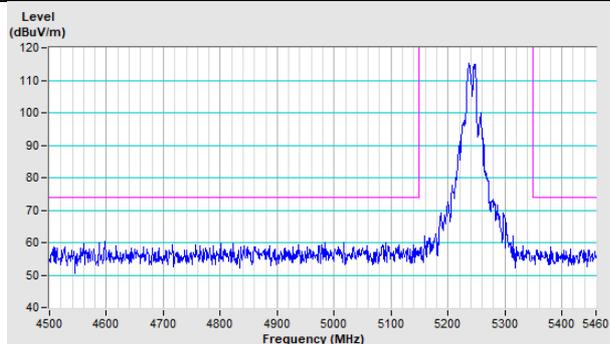
# Annex B - Band Edge Measurement

4TX (WAX630E)

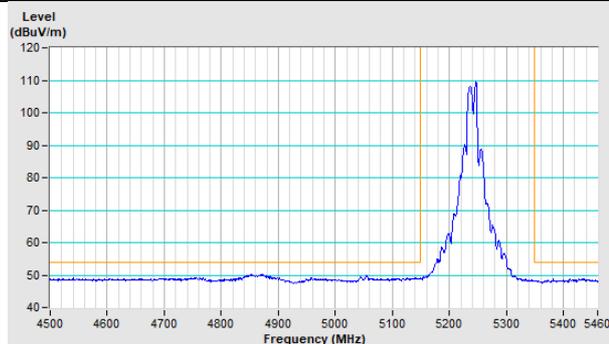


### 802.11a Channel 48

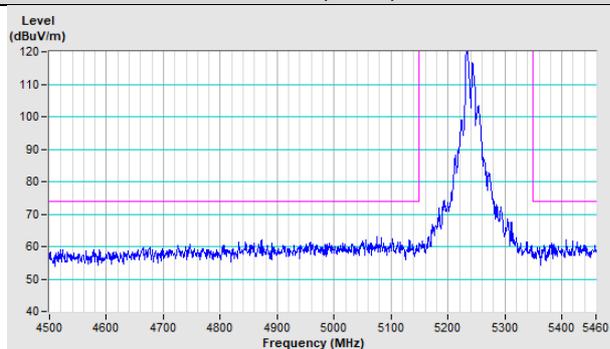
Horizontal (Peak)



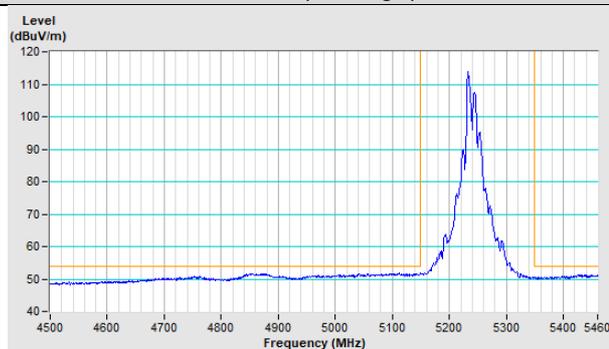
Horizontal (Average)



Vertical (Peak)

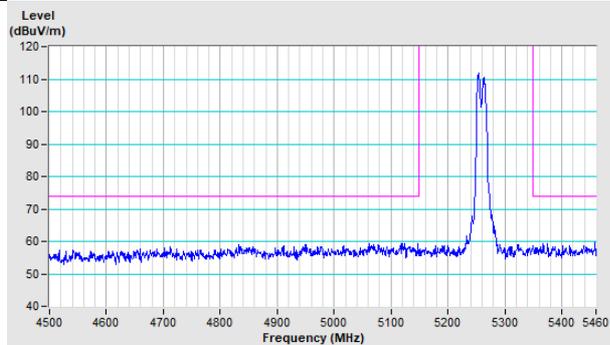


Vertical (Average)

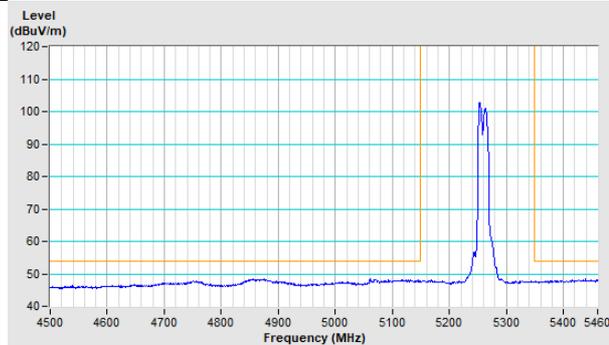


### 802.11a Channel 52

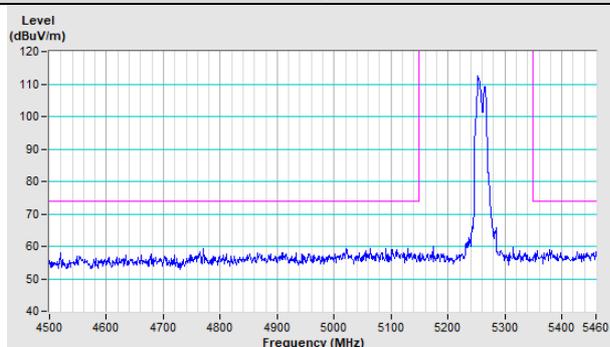
Horizontal (Peak)



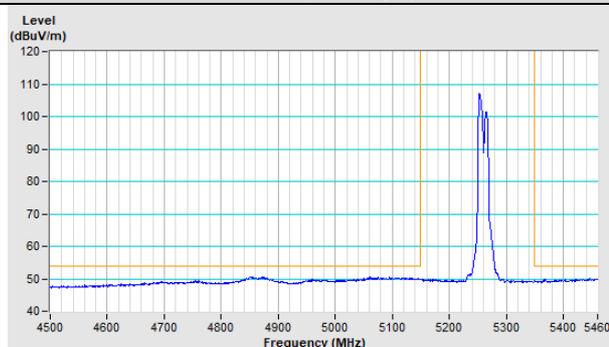
Horizontal (Average)



Vertical (Peak)

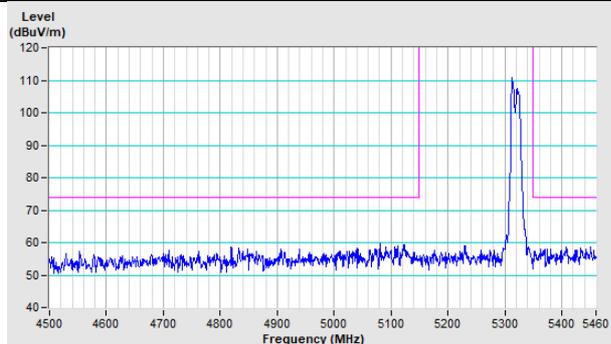


Vertical (Average)

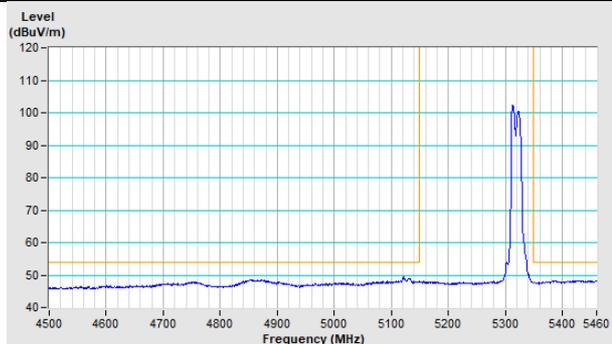


### 802.11a Channel 64

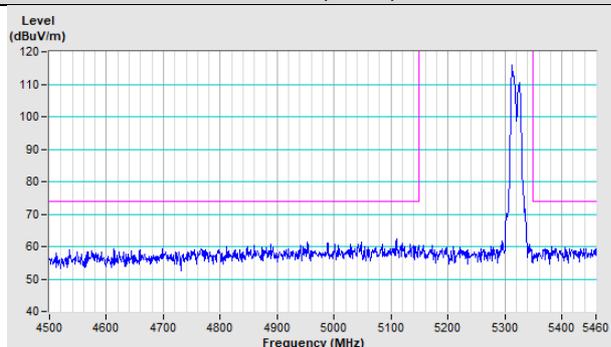
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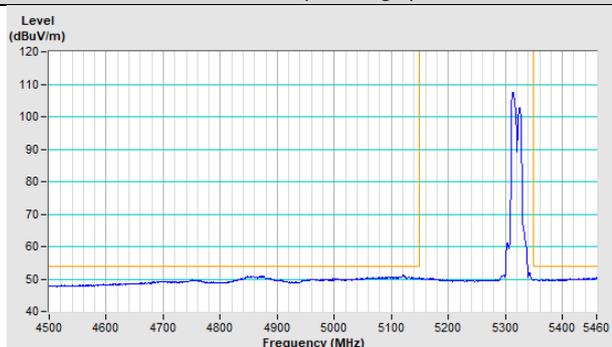
Horizontal (Average)



Vertical (Peak)

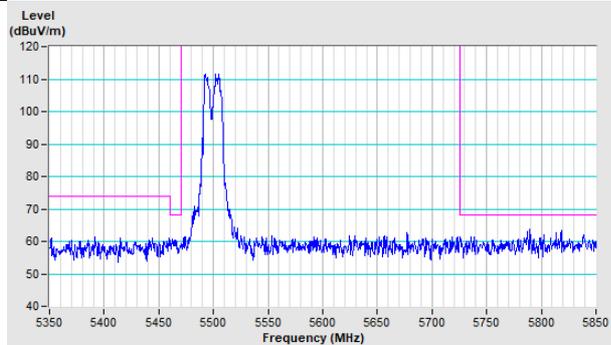


Vertical (Average)

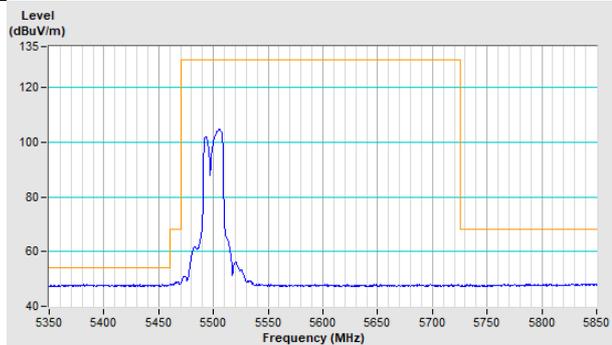


### 802.11a Channel 100

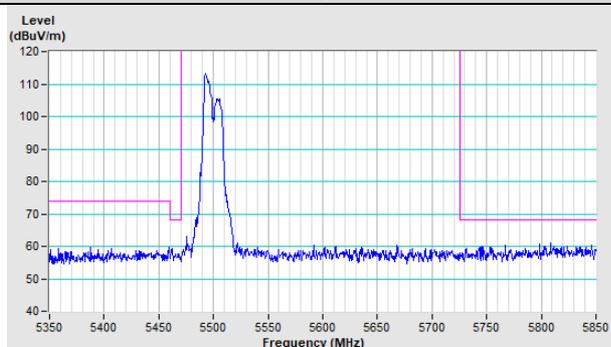
Horizontal (Peak)



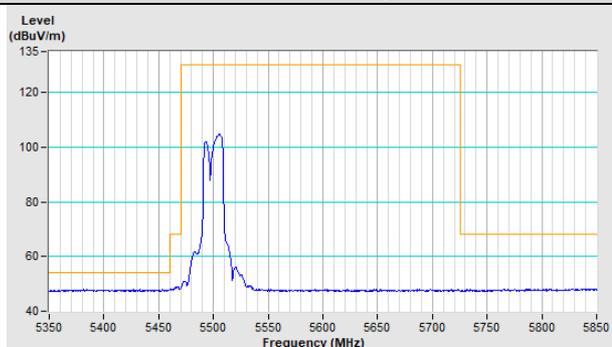
Horizontal (Average)



Vertical (Peak)

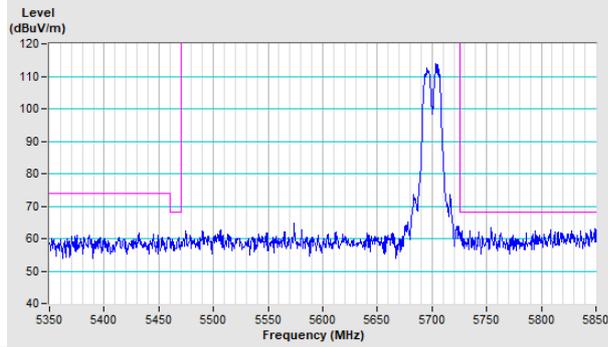


Vertical (Average)

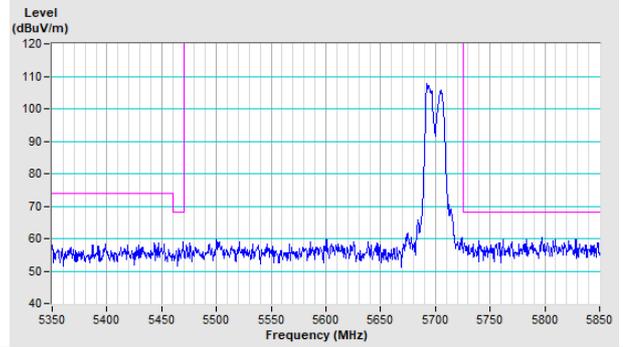


### 802.11a Channel 140

Horizontal (Peak)

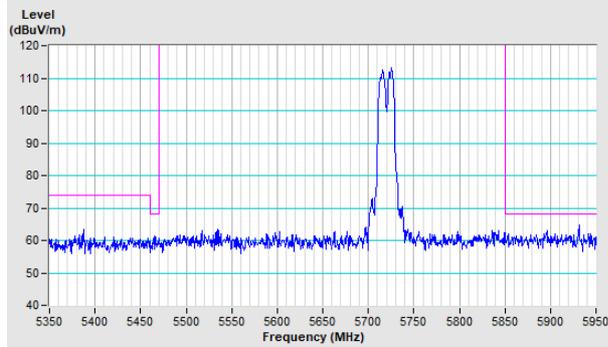


Vertical (Peak)

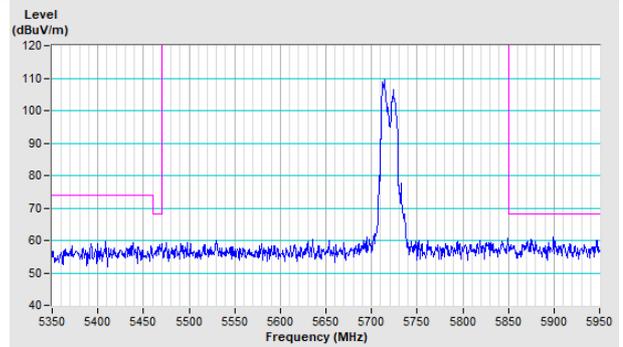


### 802.11a Channel 144

Horizontal (Peak)

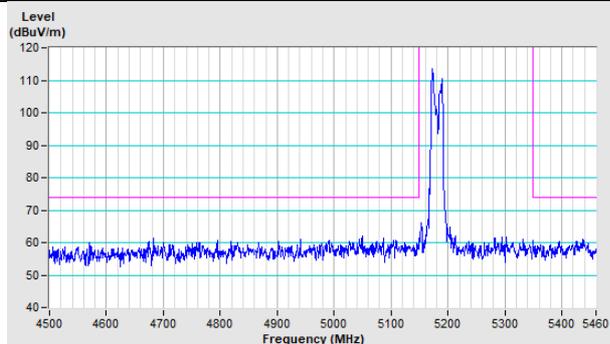


Vertical (Peak)

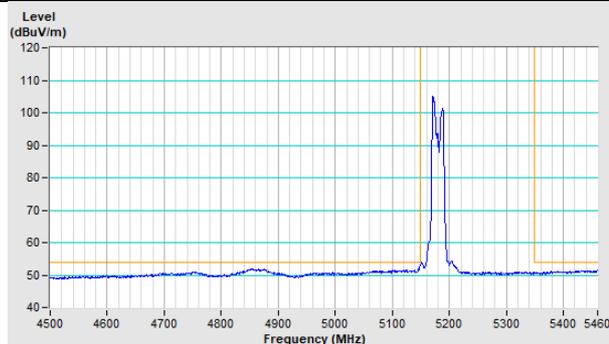


802.11ax (HE20) Channel 36

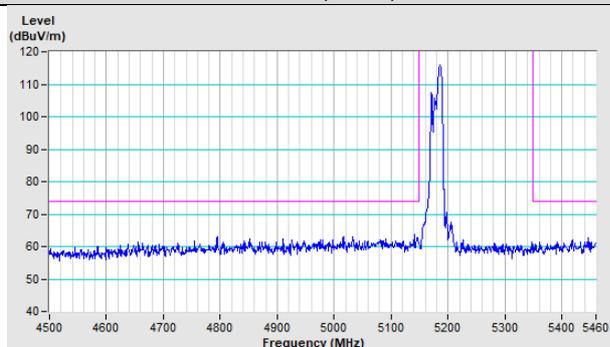
Horizontal (Peak)



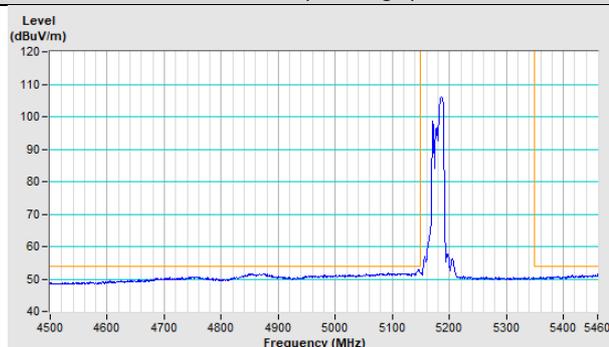
Horizontal (Average)



Vertical (Peak)

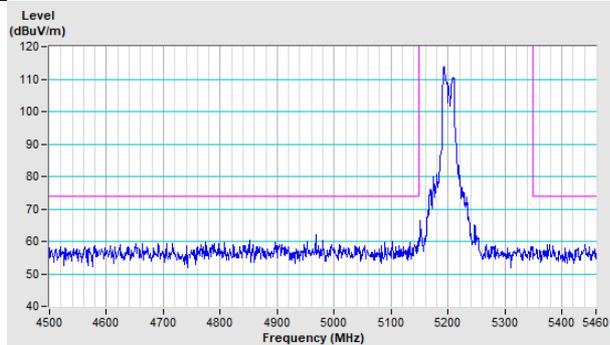


Vertical (Average)

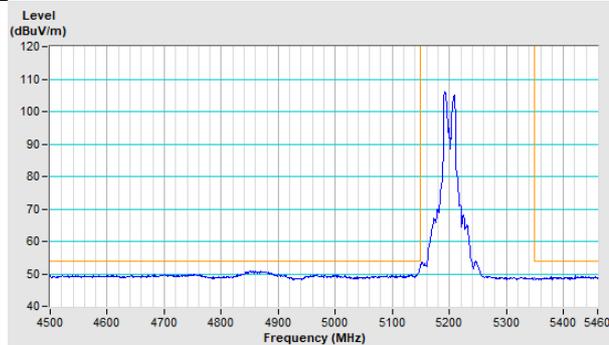


802.11ax (HE20) Channel 40

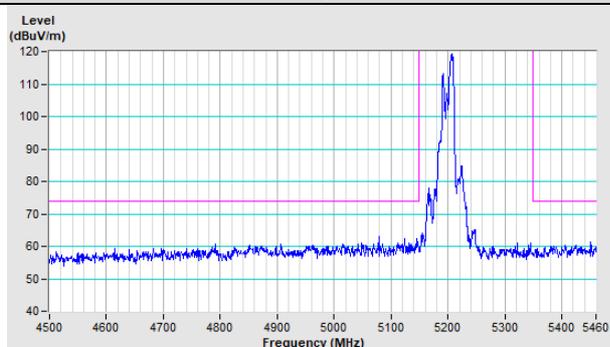
Horizontal (Peak)



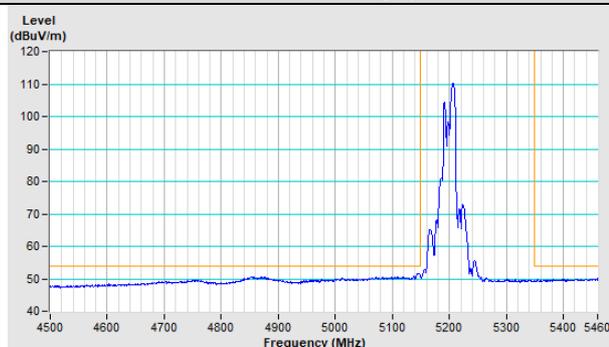
Horizontal (Average)



Vertical (Peak)

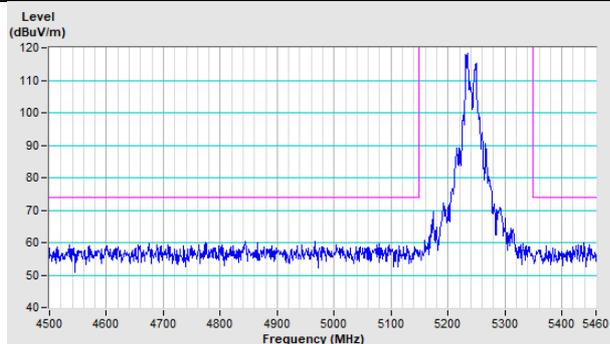


Vertical (Average)

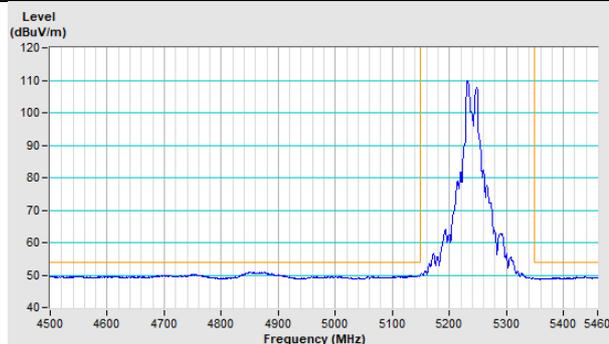


### 802.11ax (HE20) Channel 48

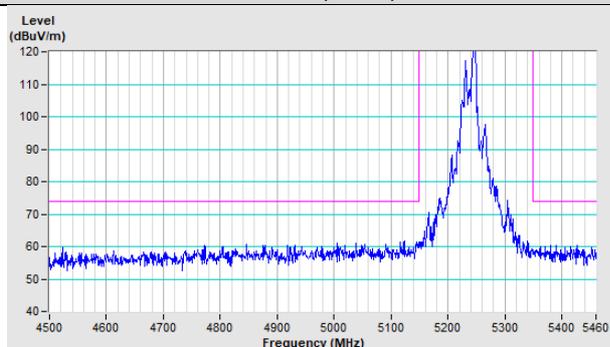
Horizontal (Peak)



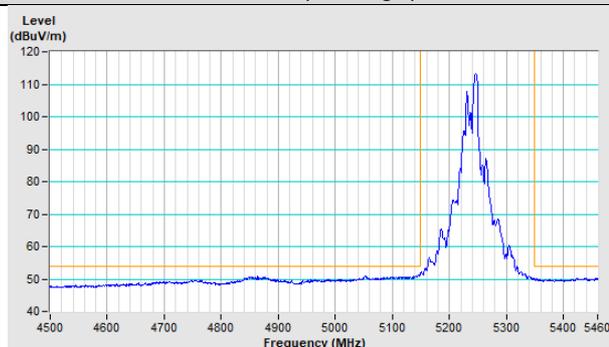
Horizontal (Average)



Vertical (Peak)

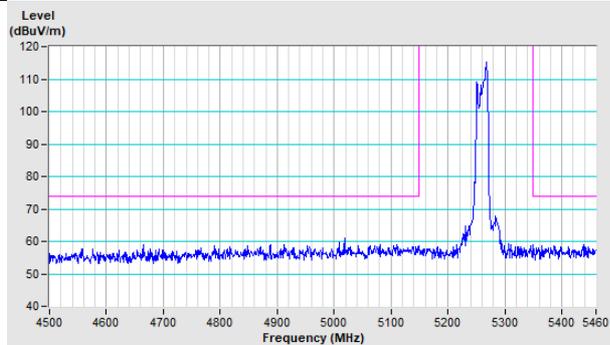


Vertical (Average)

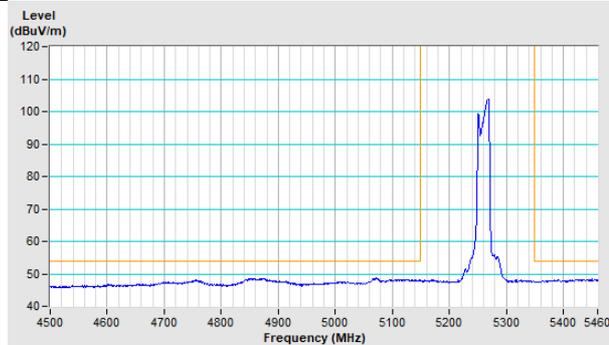


### 802.11ax (HE20) Channel 52

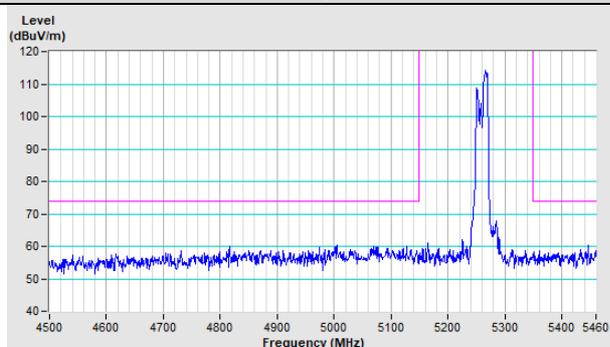
Horizontal (Peak)



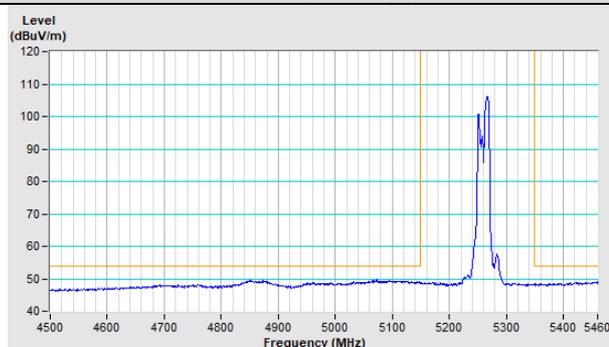
Horizontal (Average)



Vertical (Peak)

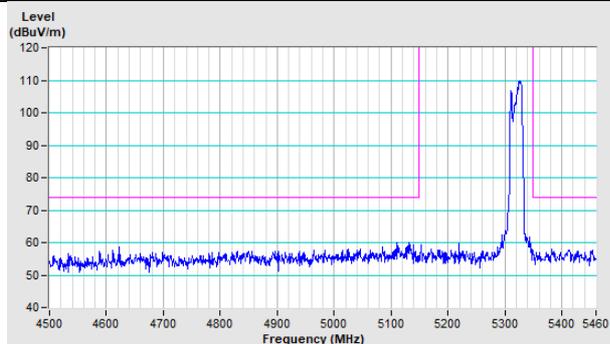


Vertical (Average)

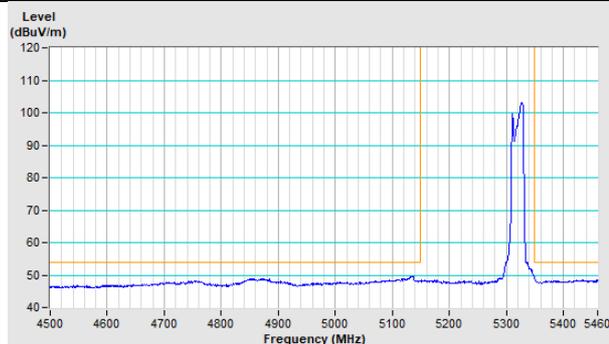


### 802.11ax (HE20) Channel 64

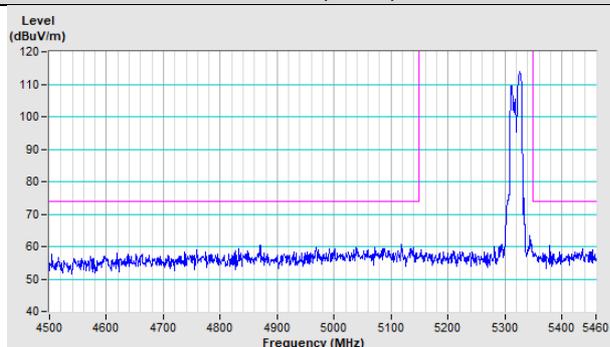
Horizontal (Peak)



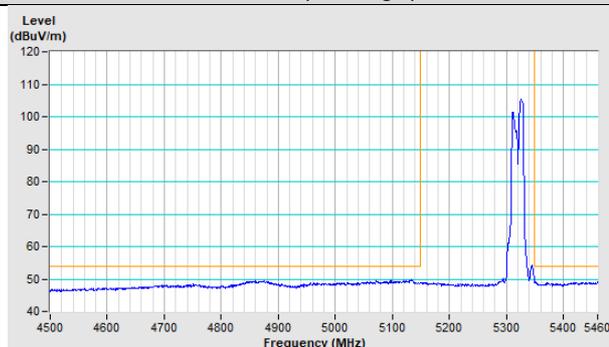
Horizontal (Average)



Vertical (Peak)

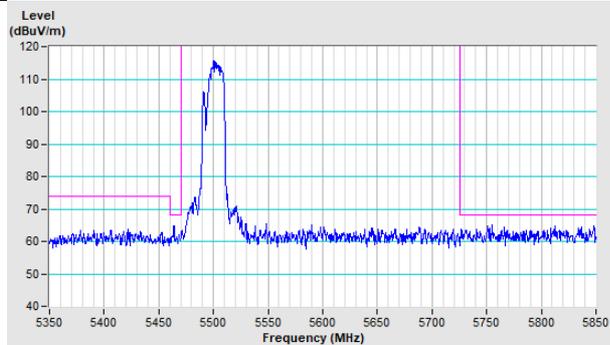


Vertical (Average)

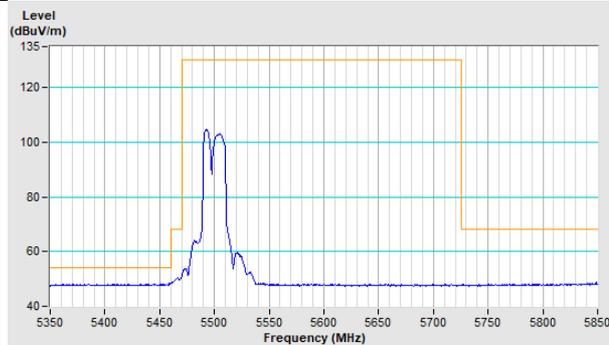


### 802.11ax (HE20) Channel 100

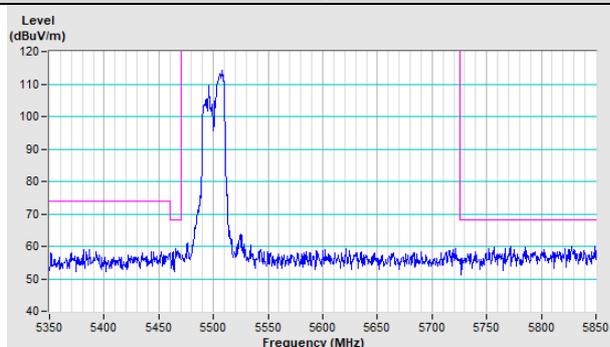
Horizontal (Peak)



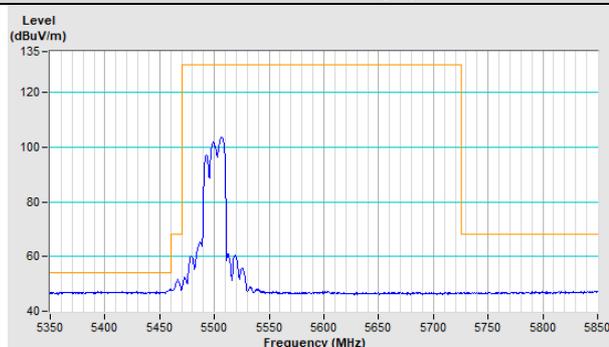
Horizontal (Average)



Vertical (Peak)

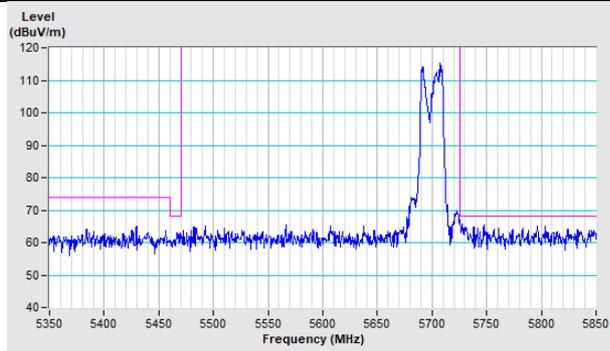


Vertical (Average)

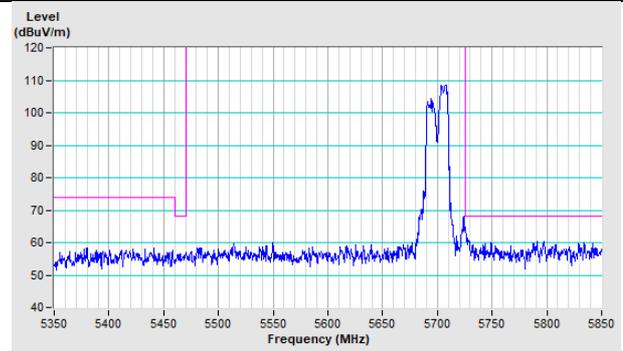


### 802.11ax (HE20) Channel 140

Horizontal (Peak)

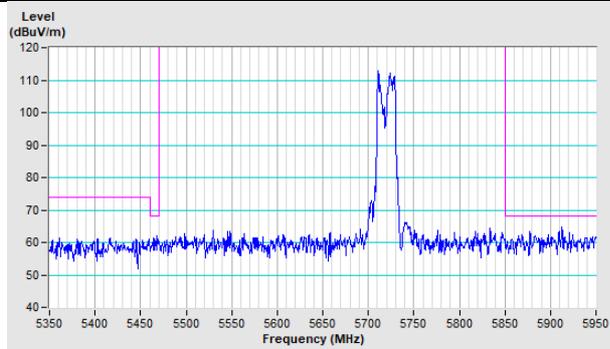


Vertical (Peak)

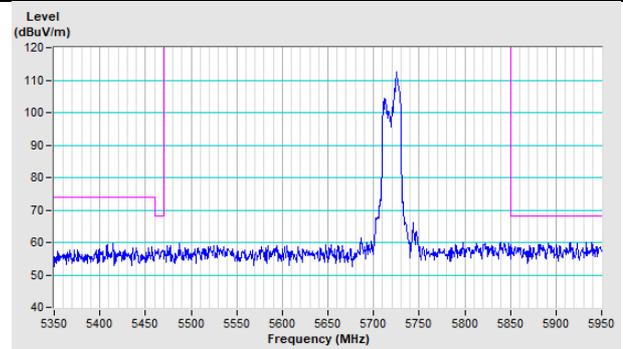


### 802.11ax (HE20) Channel 144

Horizontal (Peak)

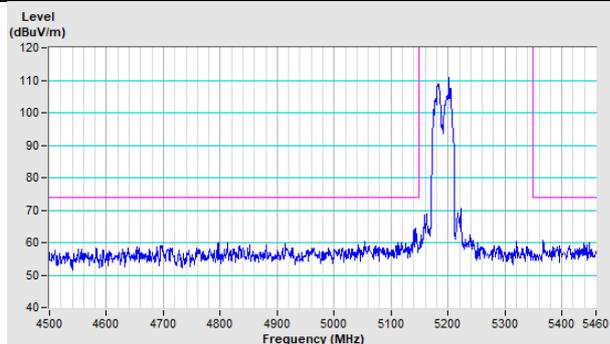


Vertical (Peak)

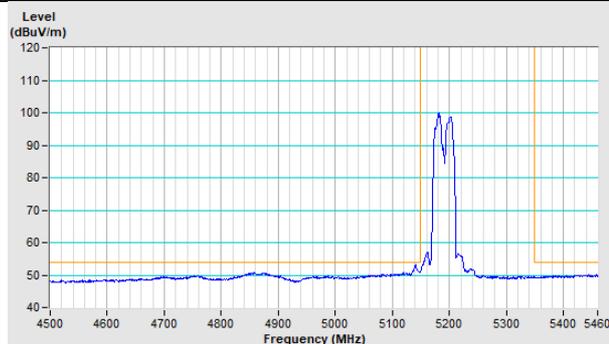


### 802.11ax (HE40) Channel 38

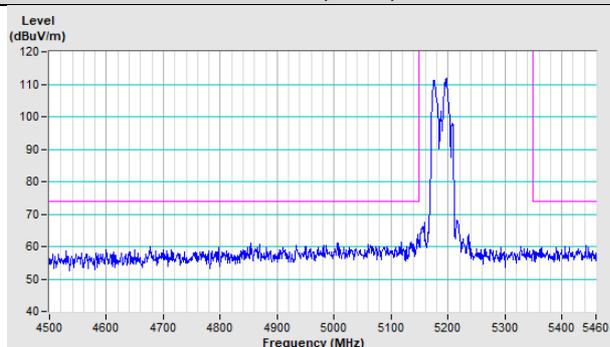
Horizontal (Peak)



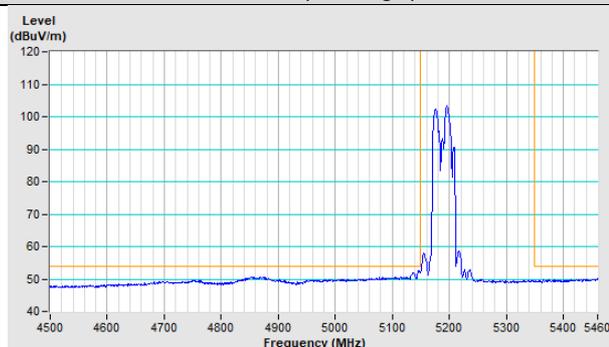
Horizontal (Average)



Vertical (Peak)

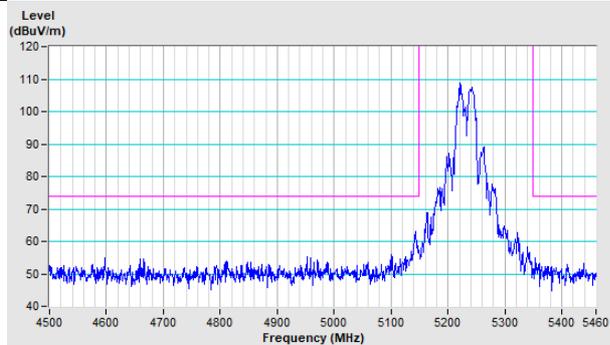


Vertical (Average)

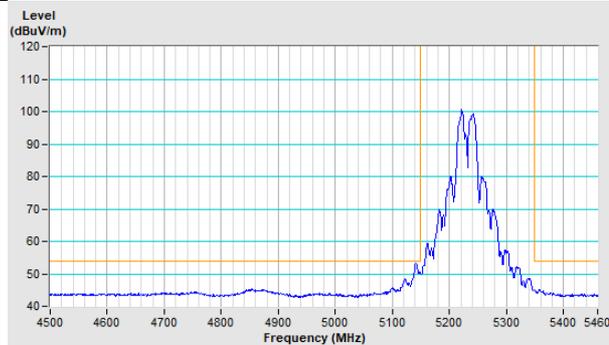


### 802.11ax (HE40) Channel 46

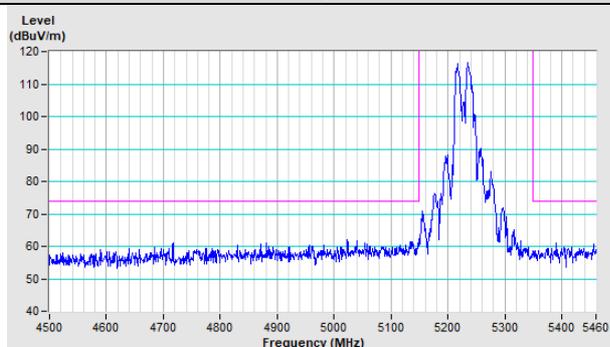
Horizontal (Peak)



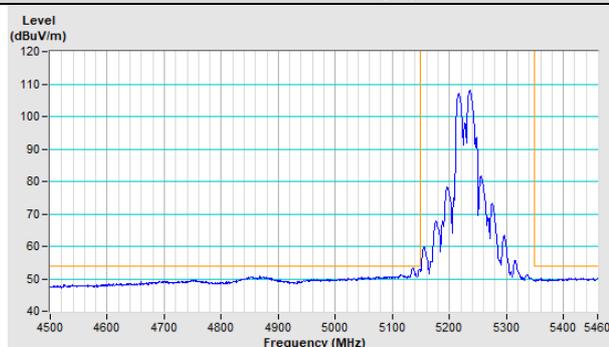
Horizontal (Average)



Vertical (Peak)

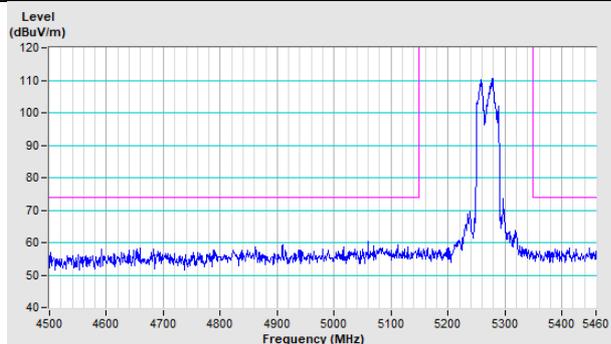


Vertical (Average)

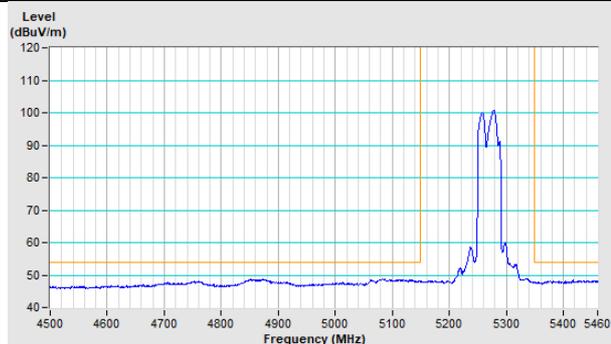


### 802.11ax (HE40) Channel 54

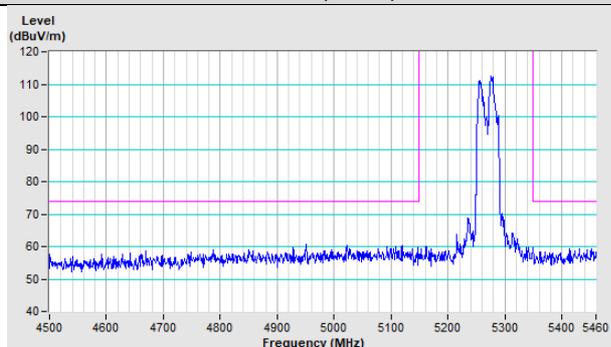
Horizontal (Peak)



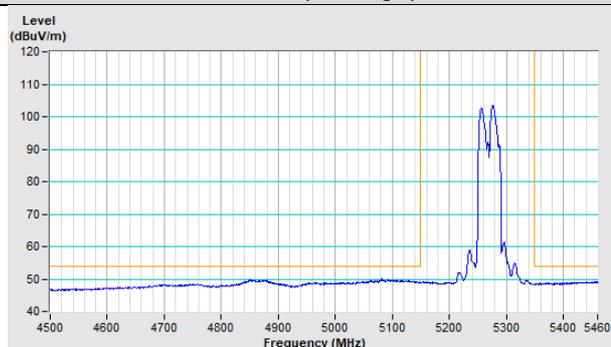
Horizontal (Average)



Vertical (Peak)

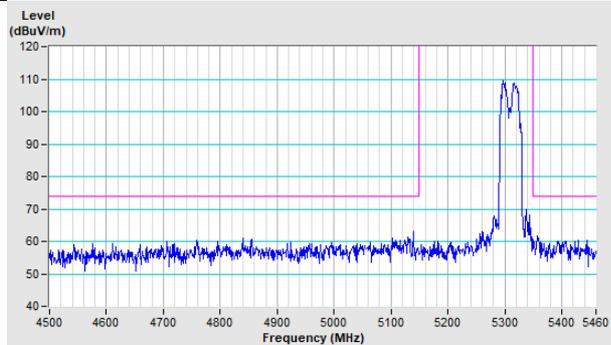


Vertical (Average)

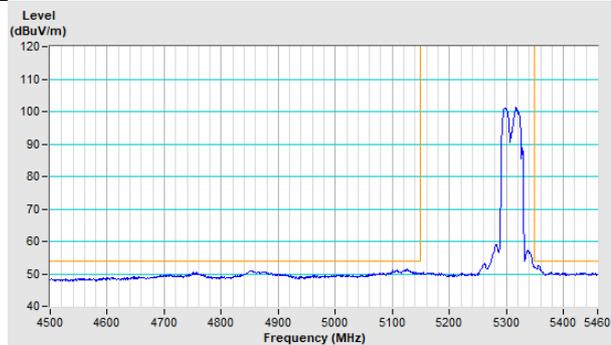


### 802.11ax (HE40) Channel 62

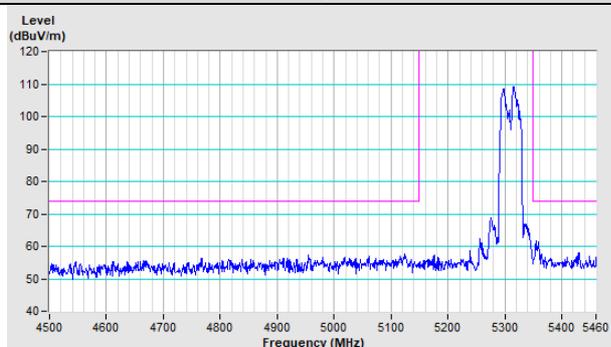
Horizontal (Peak)



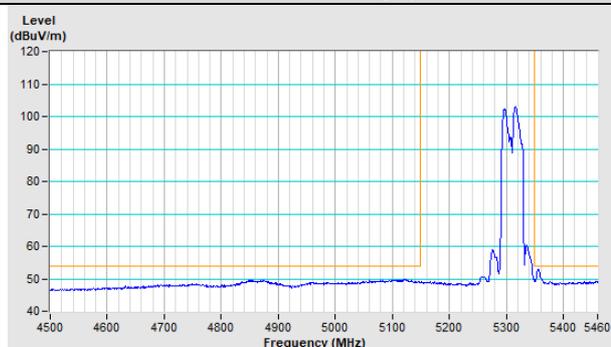
Horizontal (Average)



Vertical (Peak)

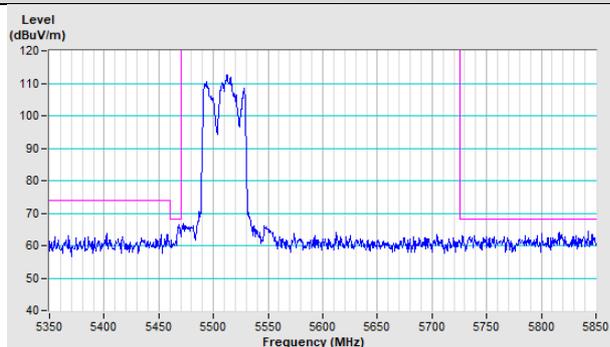


Vertical (Average)

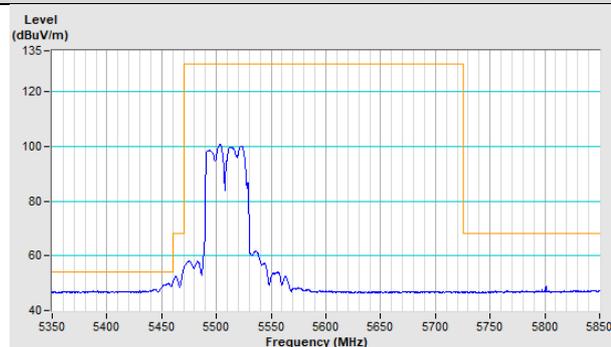


### 802.11ax (HE40) Channel 102

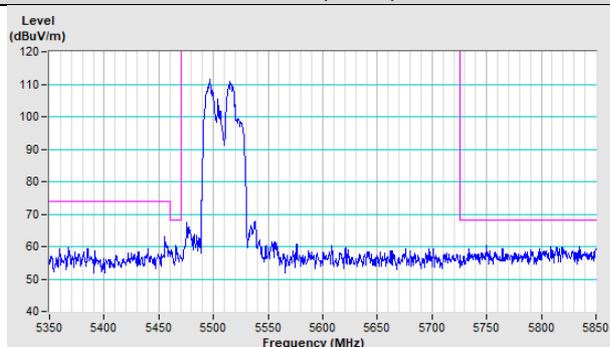
Horizontal (Peak)



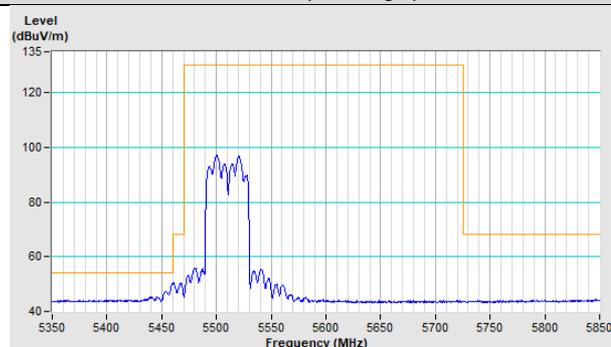
Horizontal (Average)



Vertical (Peak)

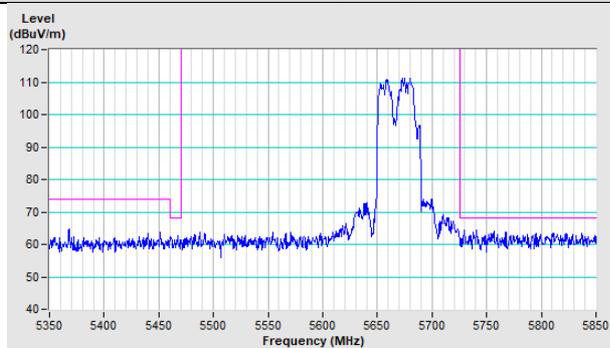


Vertical (Average)

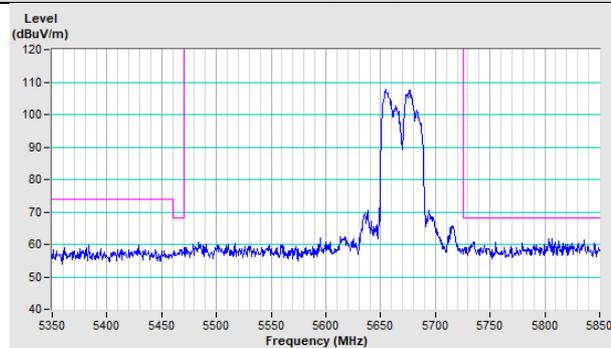


### 802.11ax (HE40) Channel 134

Horizontal (Peak)

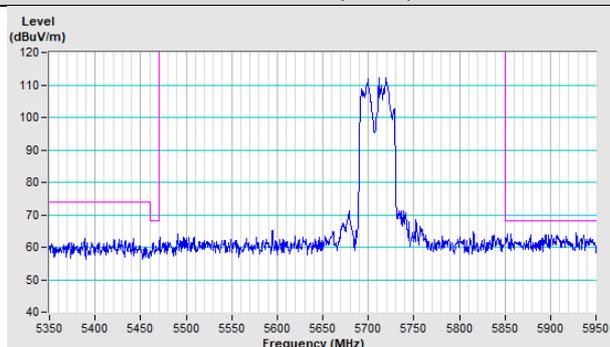


Vertical (Peak)

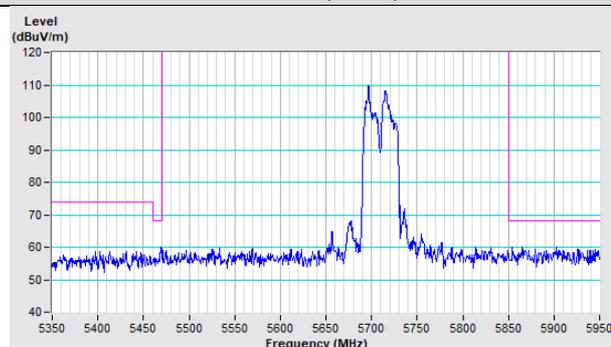


### 802.11ax (HE40) Channel 142

Horizontal (Peak)

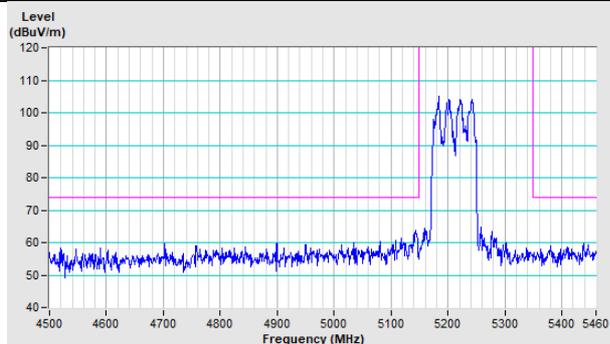


Vertical (Peak)

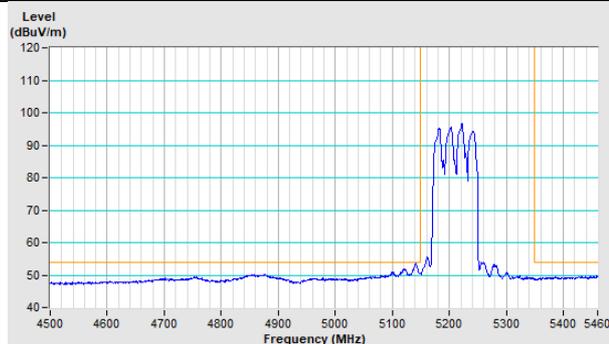


### 802.11ax (HE80) Channel 42

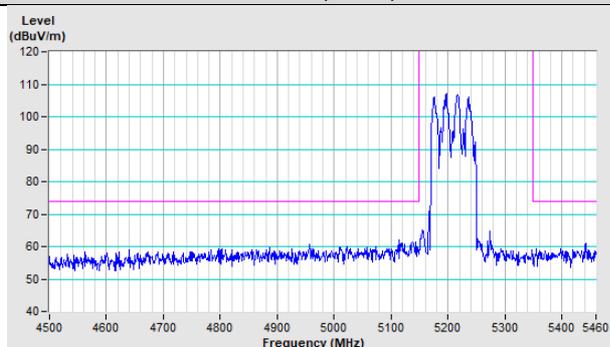
Horizontal (Peak)



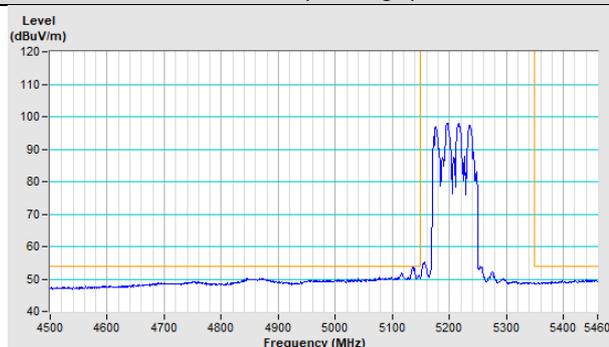
Horizontal (Average)



Vertical (Peak)

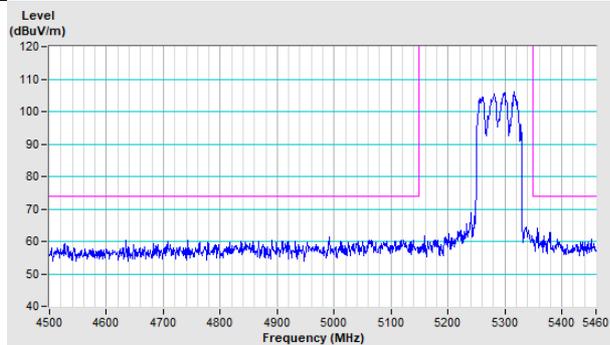


Vertical (Average)

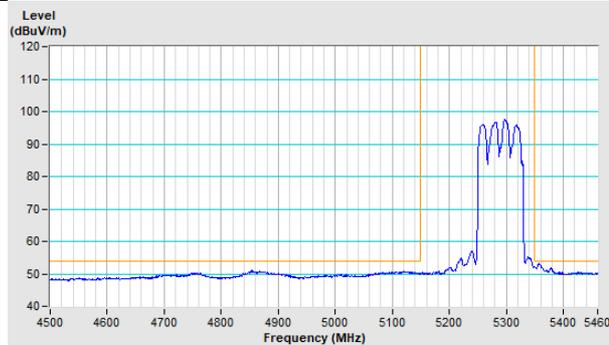


### 802.11ax (HE80) Channel 58

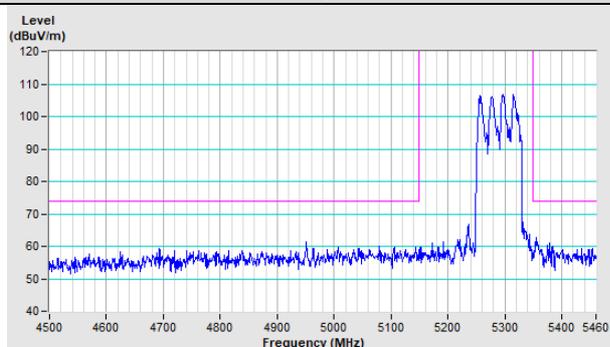
Horizontal (Peak)



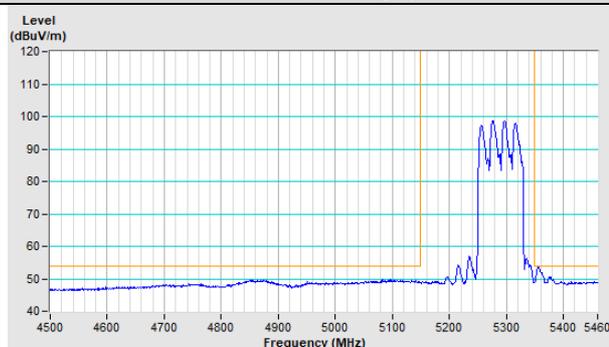
Horizontal (Average)



Vertical (Peak)

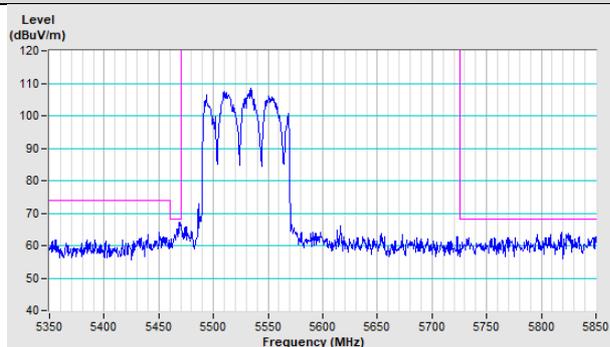


Vertical (Average)

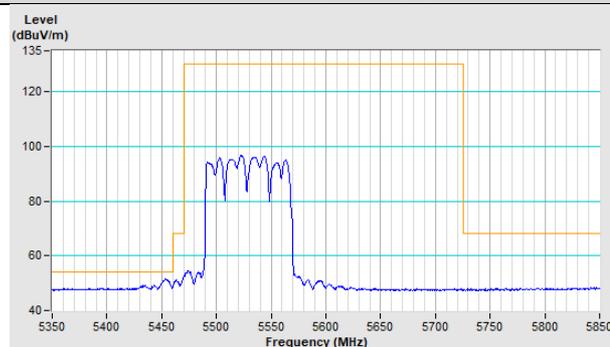


### 802.11ax (HE80) Channel 106

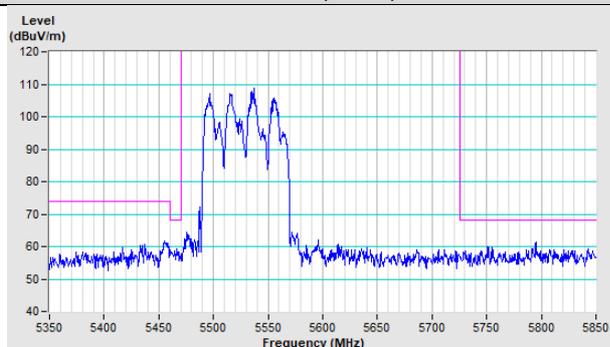
Horizontal (Peak)



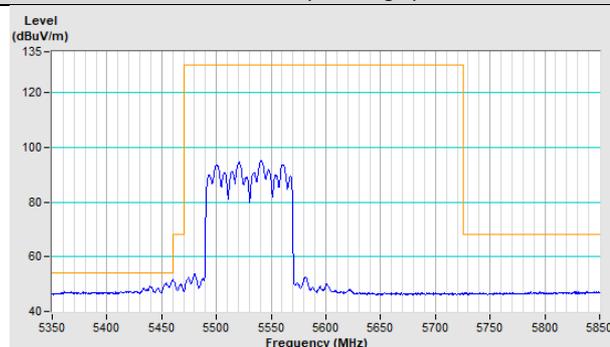
Horizontal (Average)



Vertical (Peak)

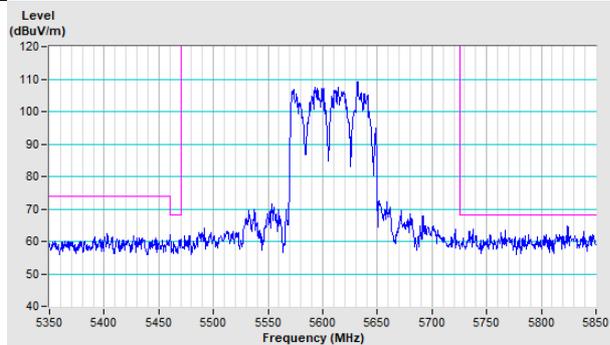


Vertical (Average)

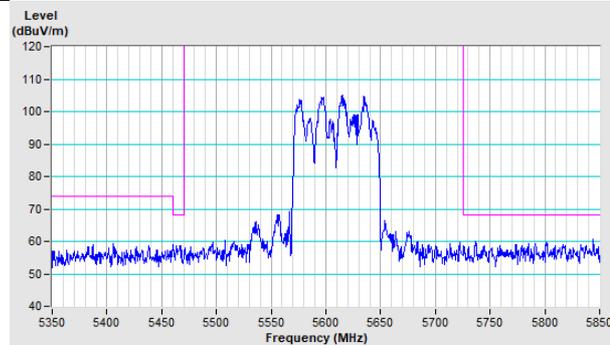


### 802.11ax (HE80) Channel 122

Horizontal (Peak)

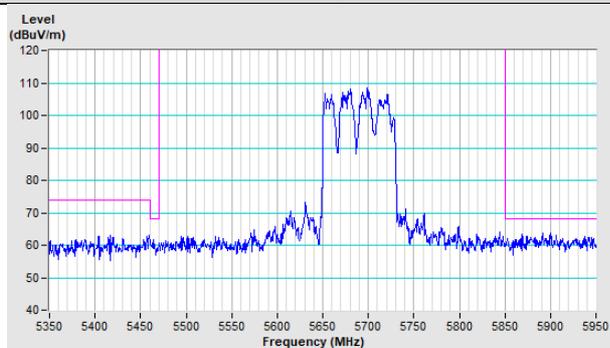


Vertical (Peak)

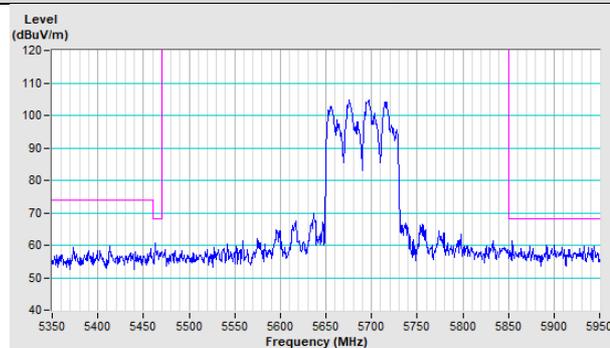


### 802.11ax (HE80) Channel 138

Horizontal (Peak)

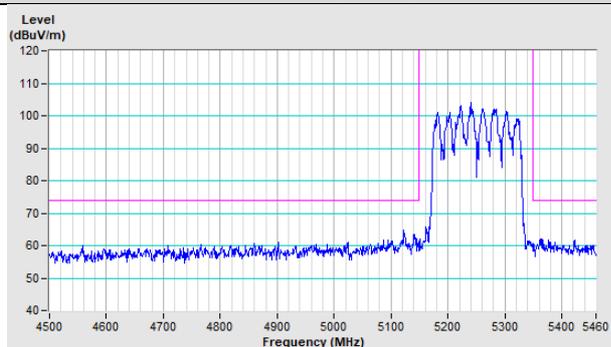


Vertical (Peak)

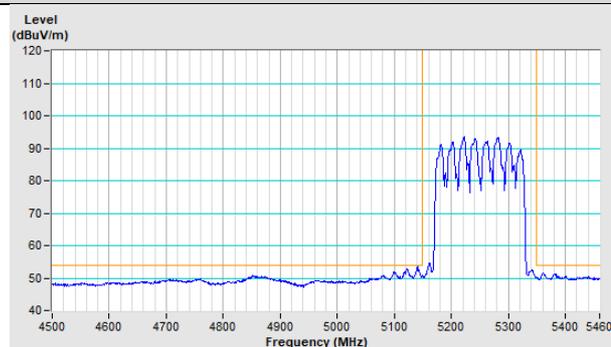


802.11ax (HE160) Channel 50

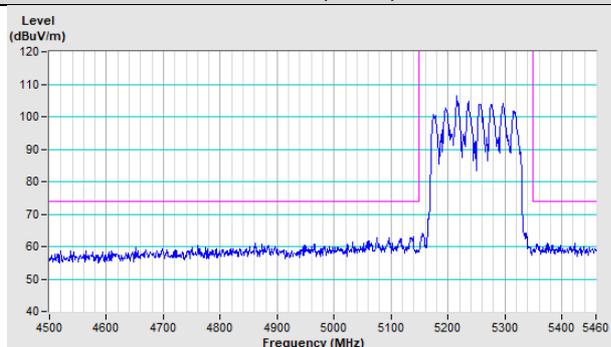
Horizontal (Peak)



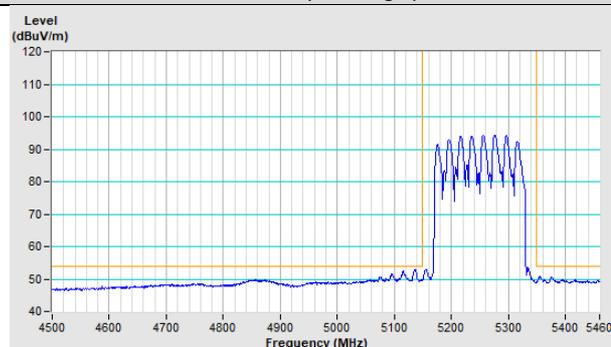
Horizontal (Average)



Vertical (Peak)

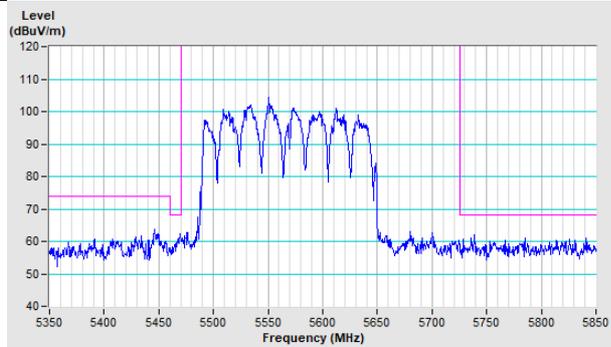


Vertical (Average)

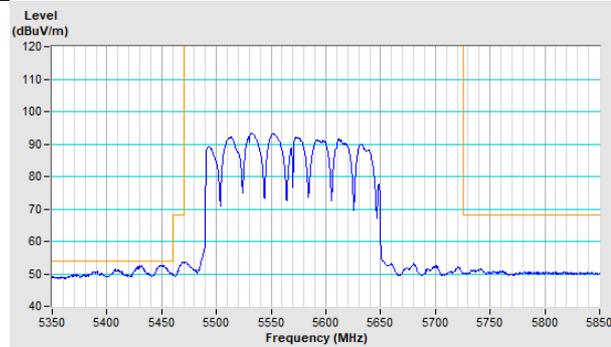


802.11ax (HE160) Channel 114

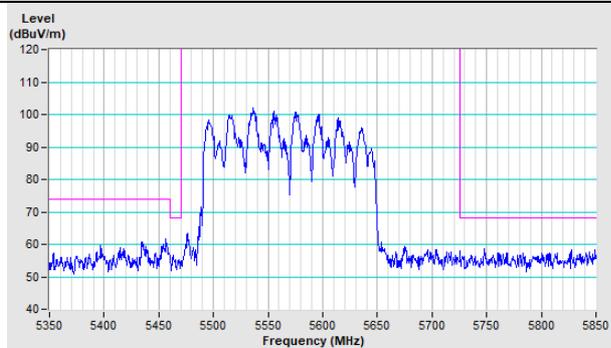
Horizontal (Peak)



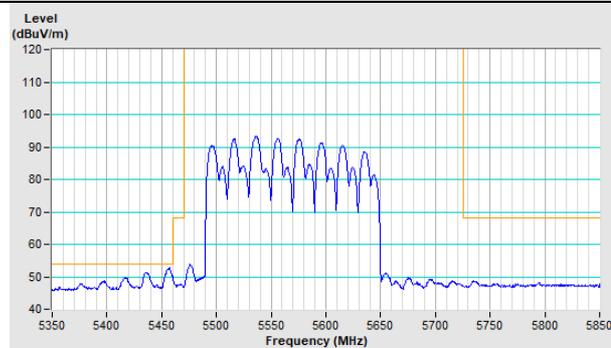
Horizontal (Average)



Vertical (Peak)



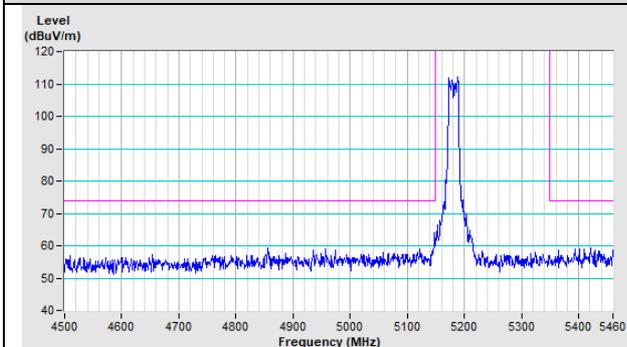
Vertical (Average)



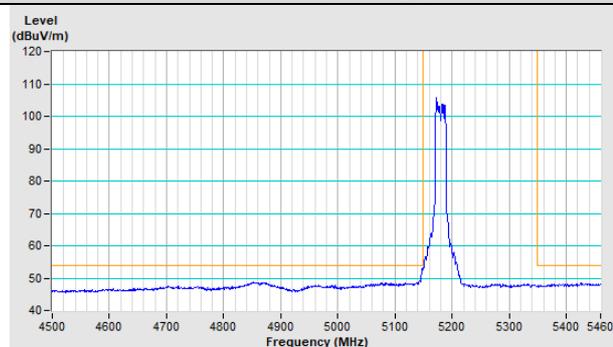
2TX (WAX620E)

802.11a Channel 36

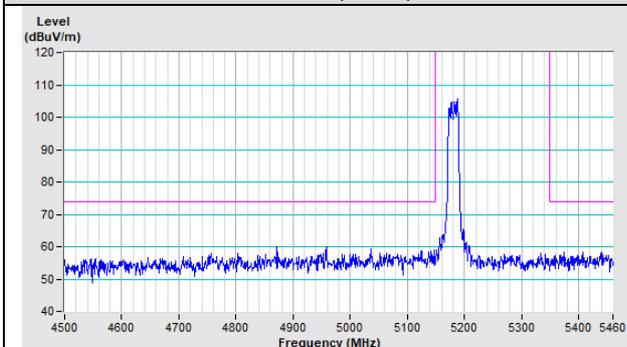
Horizontal (Peak)



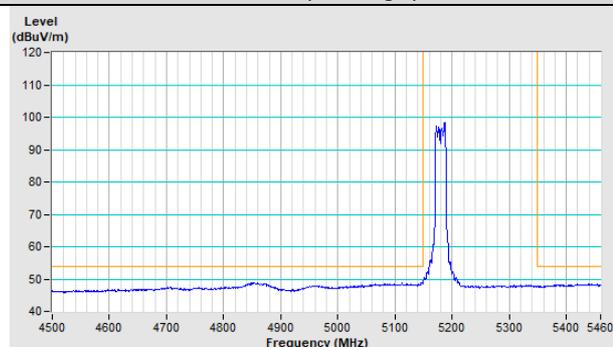
Horizontal (Average)



Vertical (Peak)

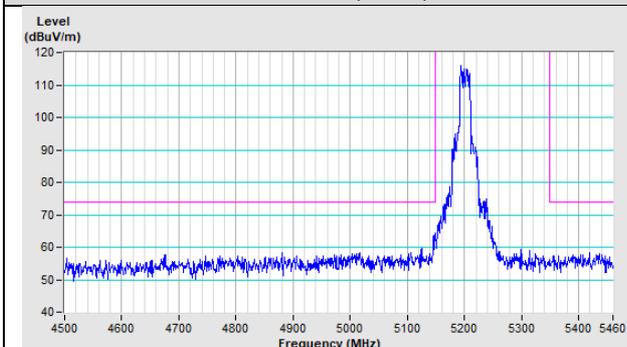


Vertical (Average)

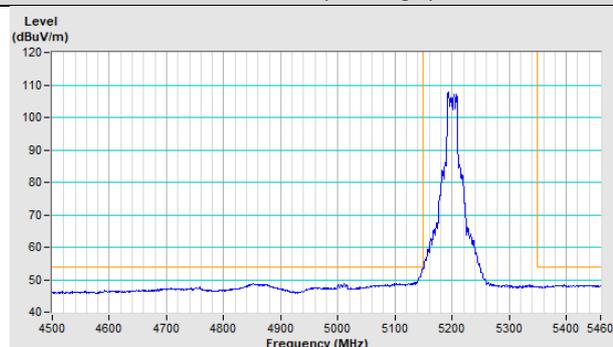


802.11a Channel 40

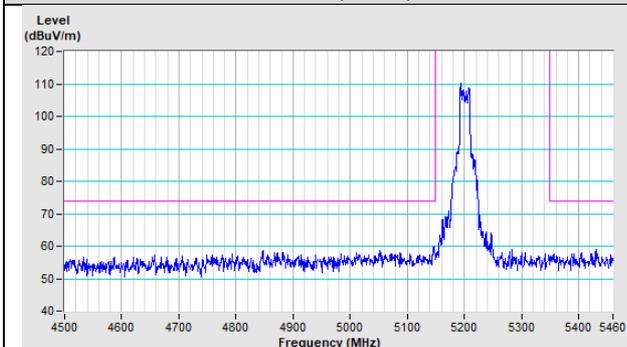
Horizontal (Peak)



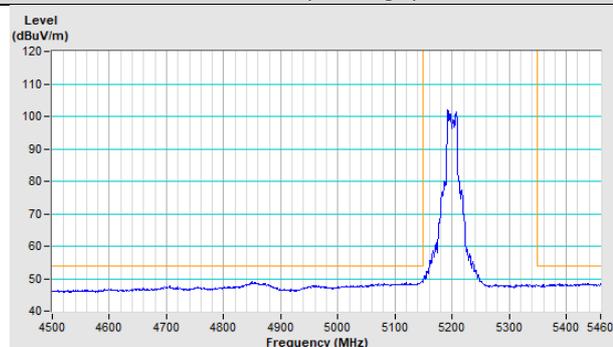
Horizontal (Average)



Vertical (Peak)

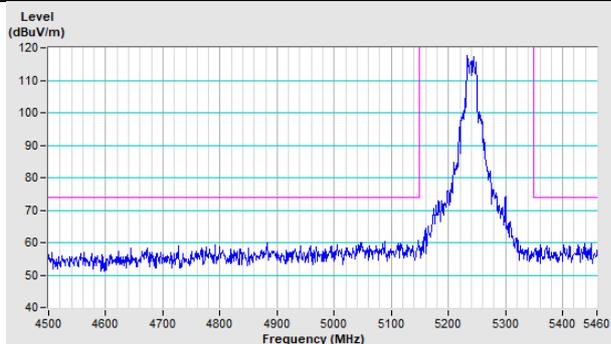


Vertical (Average)

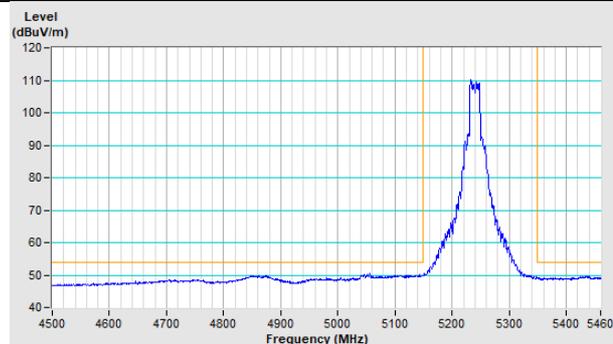


### 802.11a Channel 48

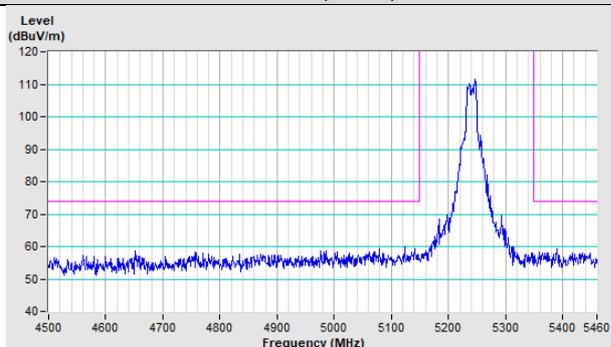
Horizontal (Peak)



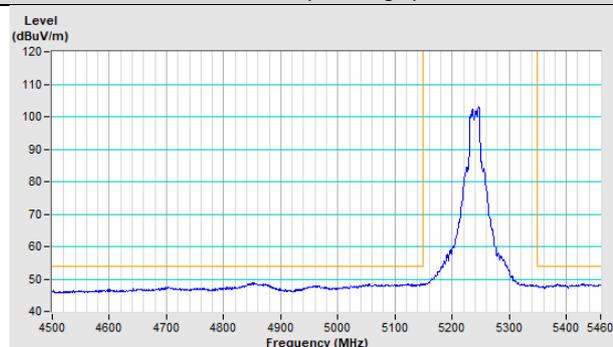
Horizontal (Average)



Vertical (Peak)

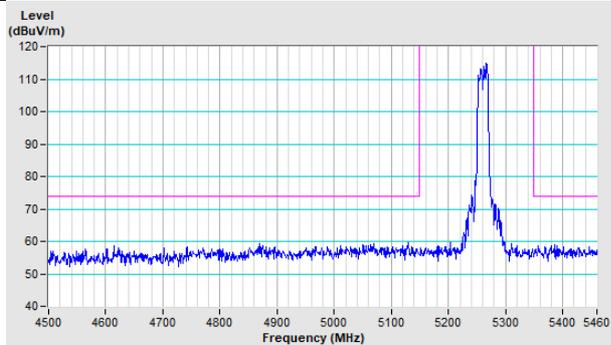


Vertical (Average)

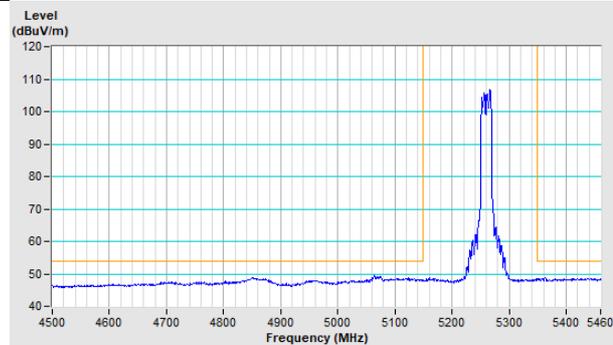


### 802.11a Channel 52

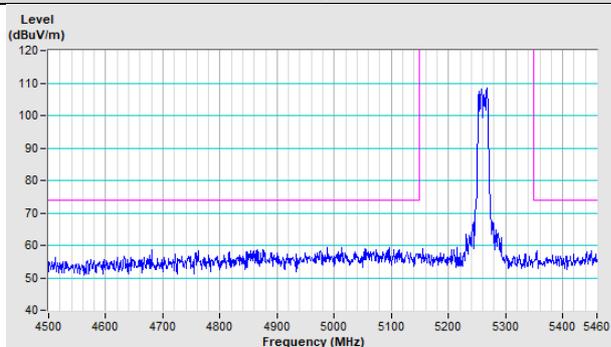
Horizontal (Peak)



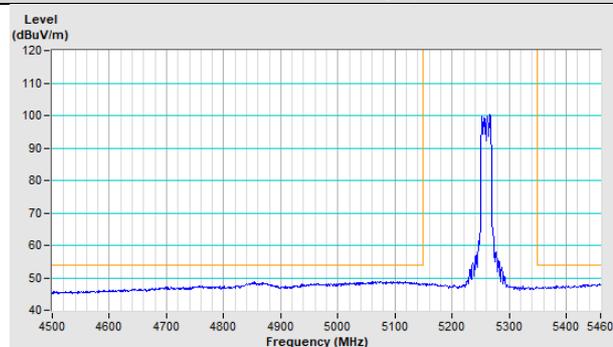
Horizontal (Average)



Vertical (Peak)

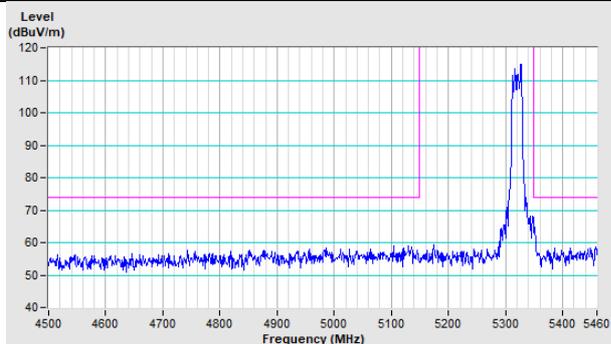


Vertical (Average)

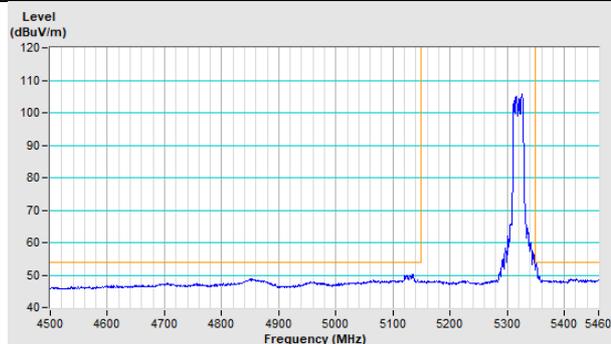


### 802.11a Channel 64

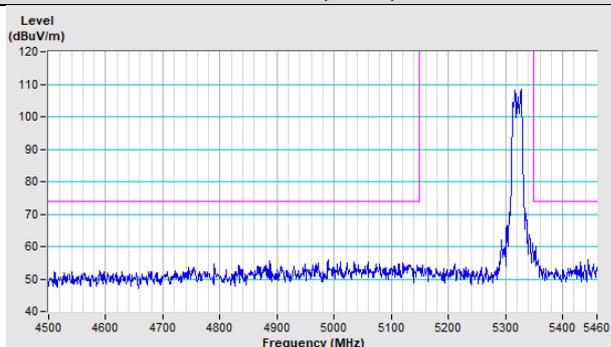
Horizontal (Peak)



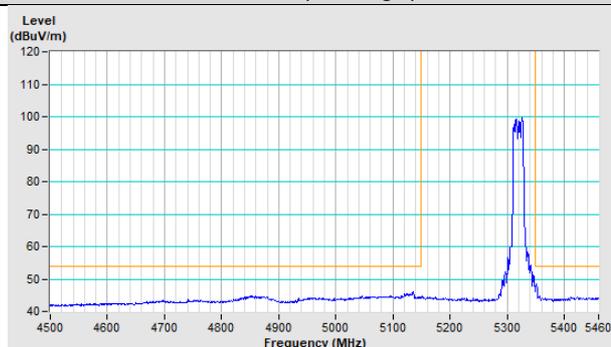
Horizontal (Average)



Vertical (Peak)

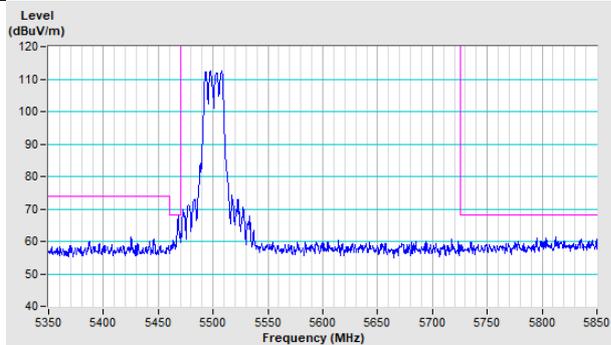


Vertical (Average)

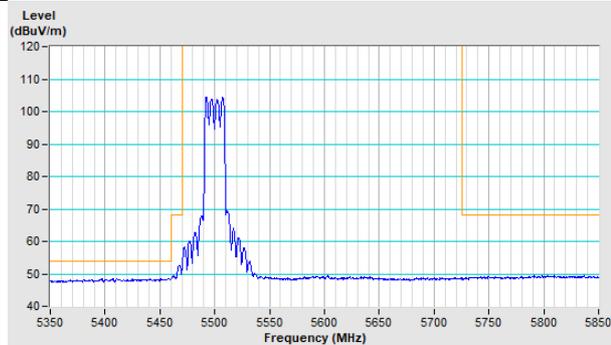


### 802.11a Channel 100

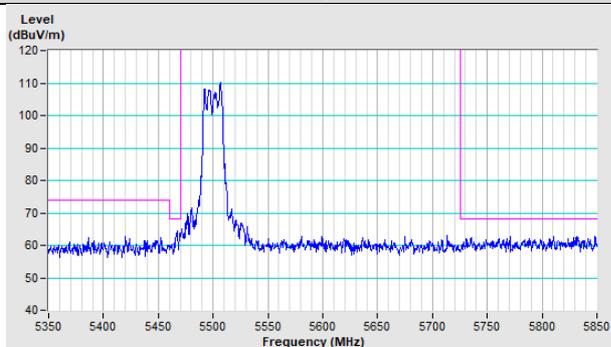
Horizontal (Peak)



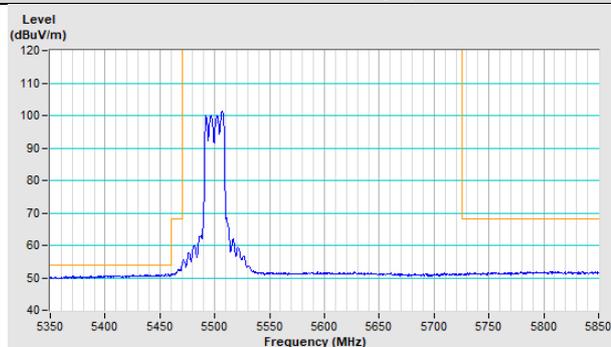
Horizontal (Average)



Vertical (Peak)

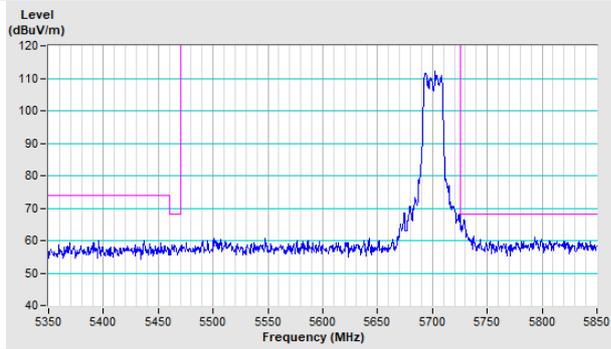


Vertical (Average)

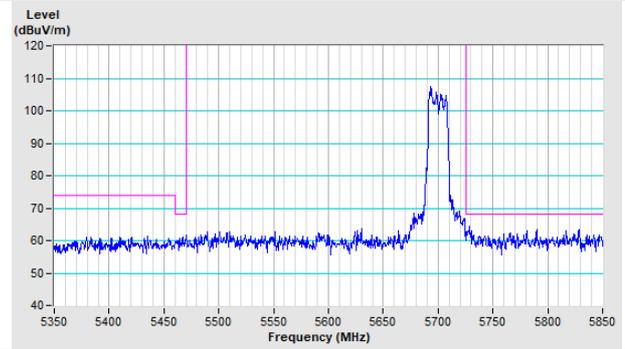


### 802.11a Channel 140

Horizontal (Peak)

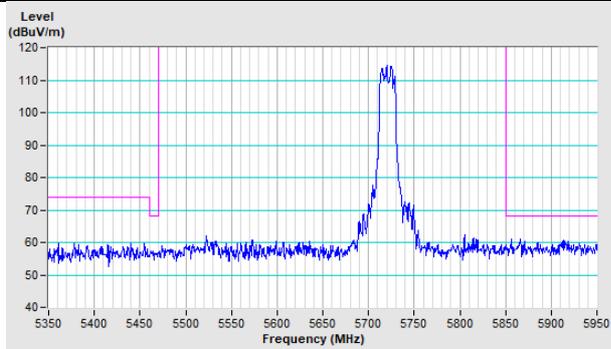


Vertical (Peak)

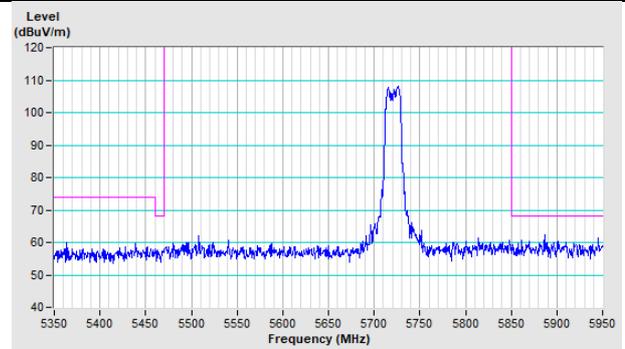


### 802.11a Channel 144

Horizontal (Peak)

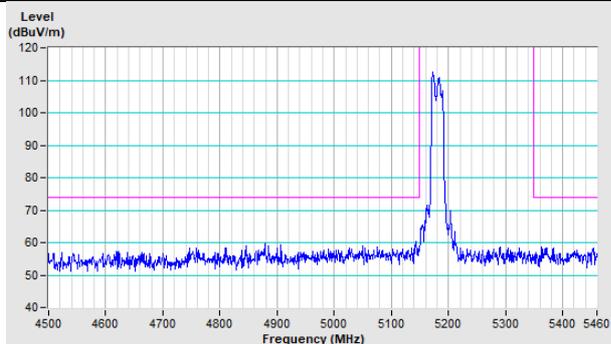


Vertical (Peak)

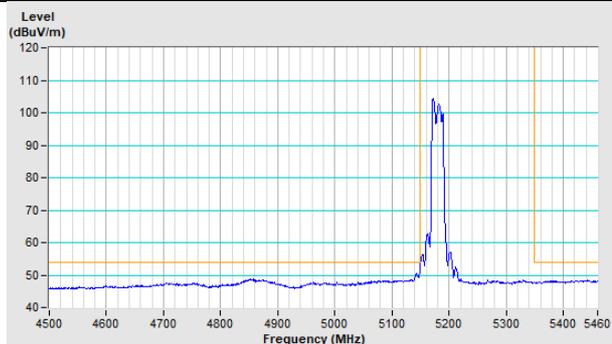


802.11ax (HE20) Channel 36

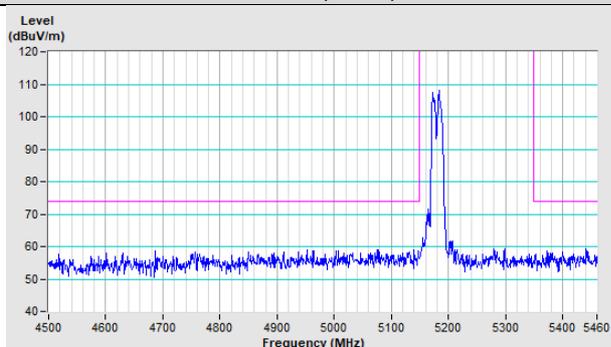
Horizontal (Peak)



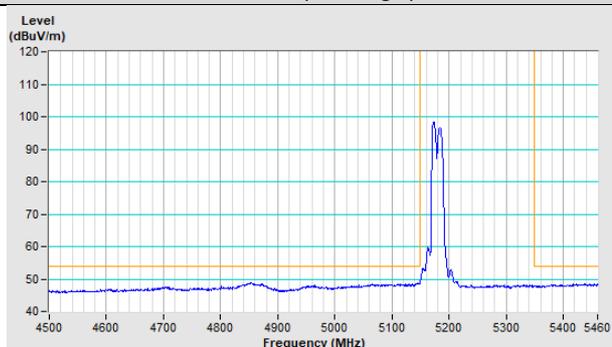
Horizontal (Average)



Vertical (Peak)

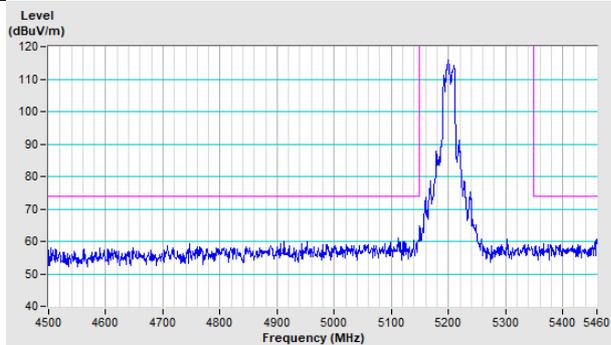


Vertical (Average)

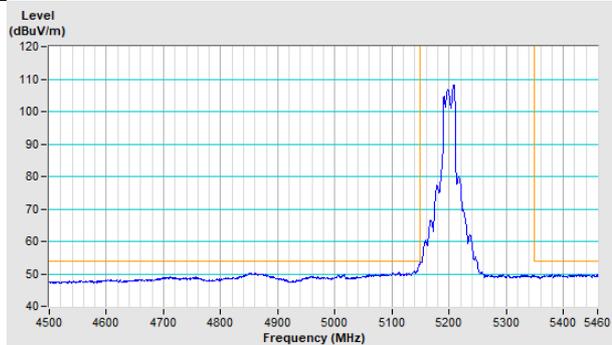


802.11ax (HE20) Channel 40

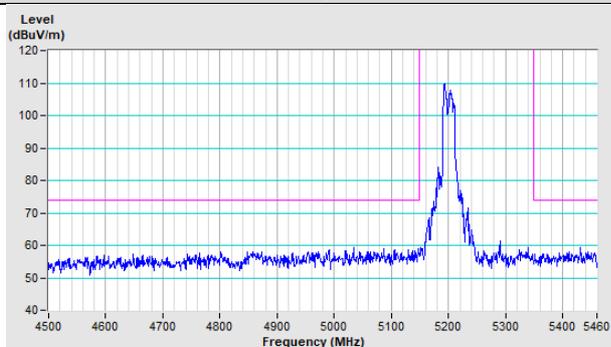
Horizontal (Peak)



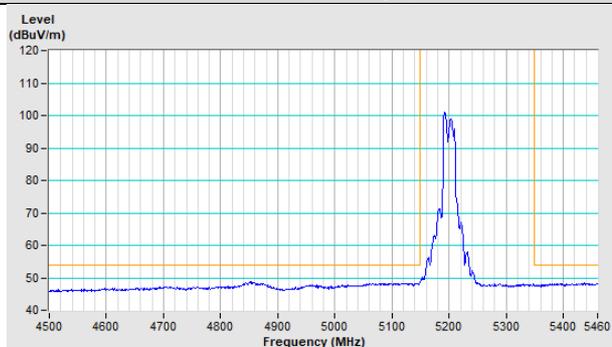
Horizontal (Average)



Vertical (Peak)

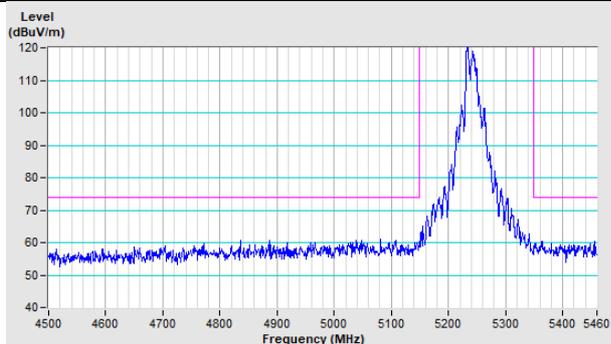


Vertical (Average)

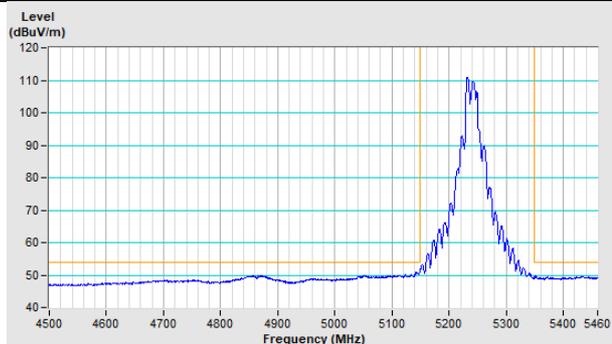


### 802.11ax (HE20) Channel 48

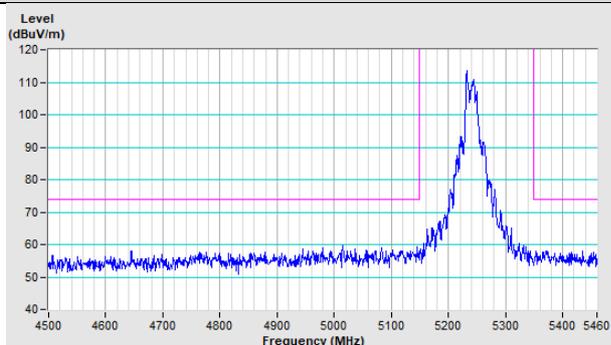
Horizontal (Peak)



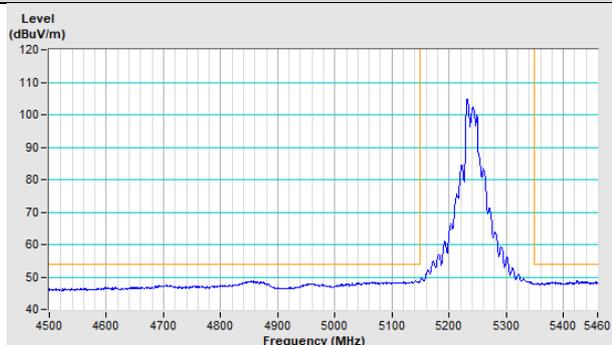
Horizontal (Average)



Vertical (Peak)

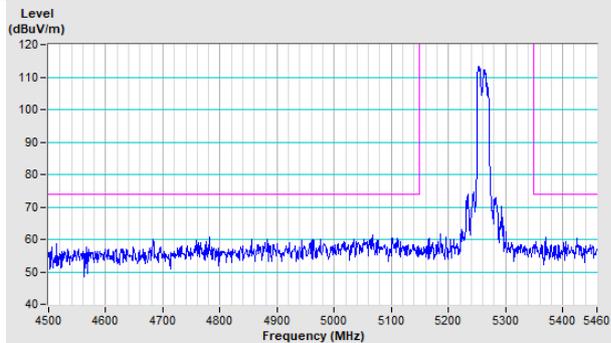


Vertical (Average)

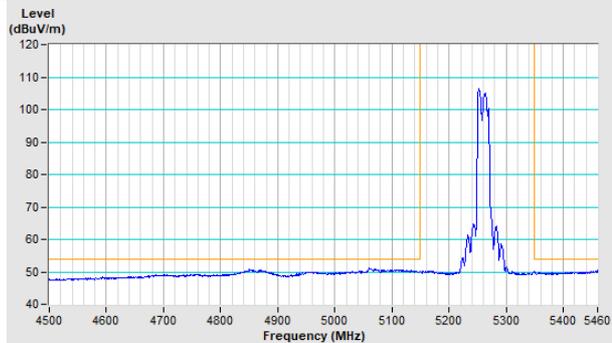


### 802.11ax (HE20) Channel 52

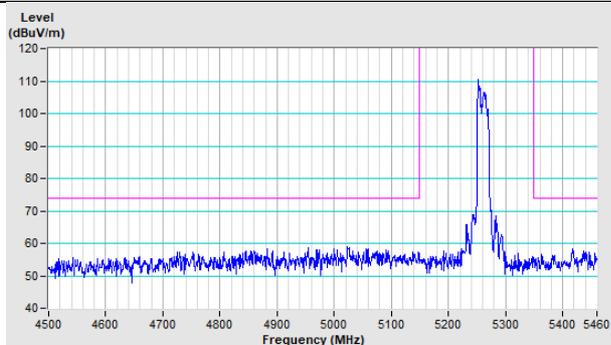
Horizontal (Peak)



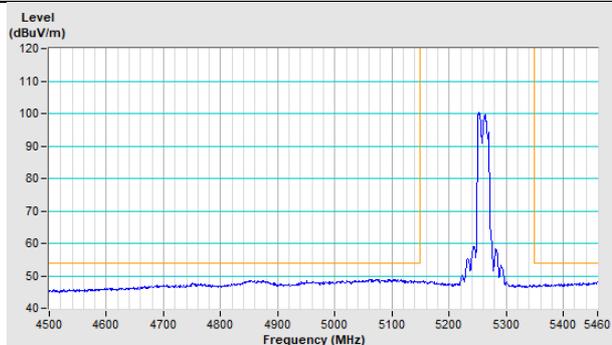
Horizontal (Average)



Vertical (Peak)

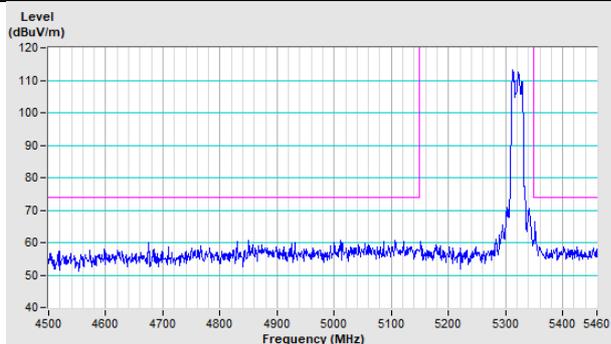


Vertical (Average)

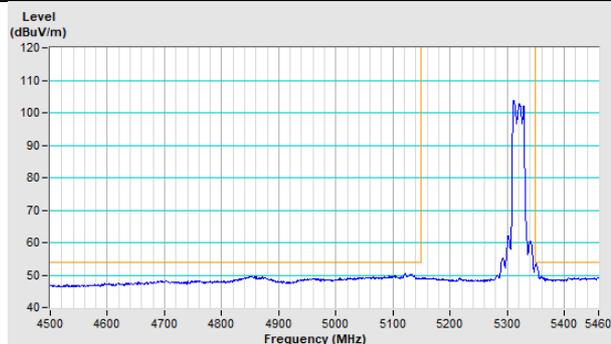


### 802.11ax (HE20) Channel 64

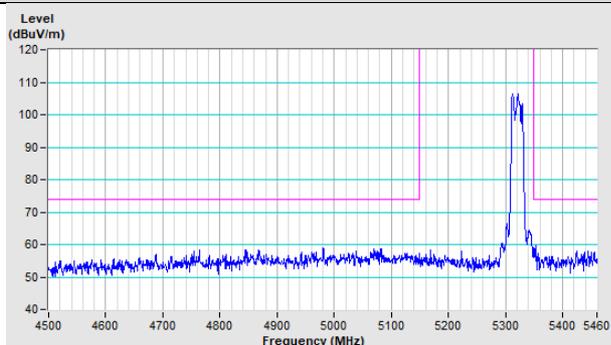
Horizontal (Peak)



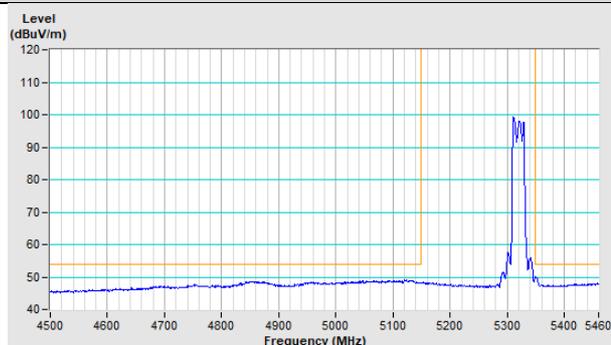
Horizontal (Average)



Vertical (Peak)

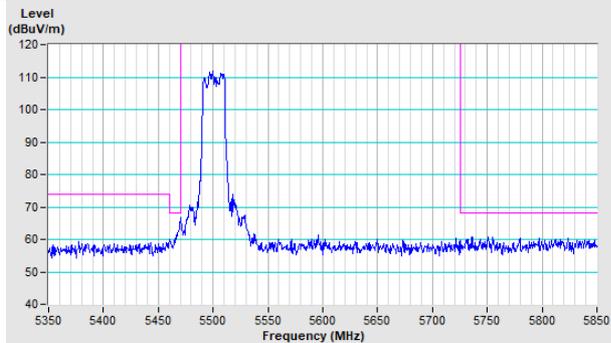


Vertical (Average)

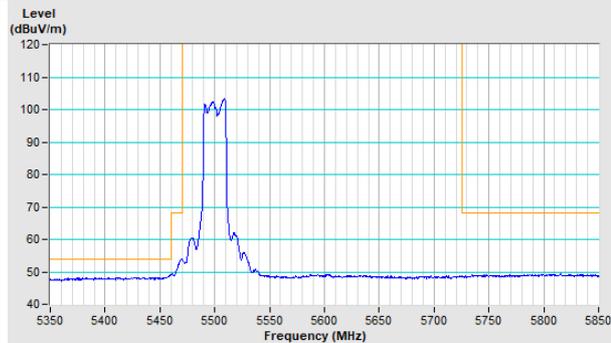


### 802.11ax (HE20) Channel 100

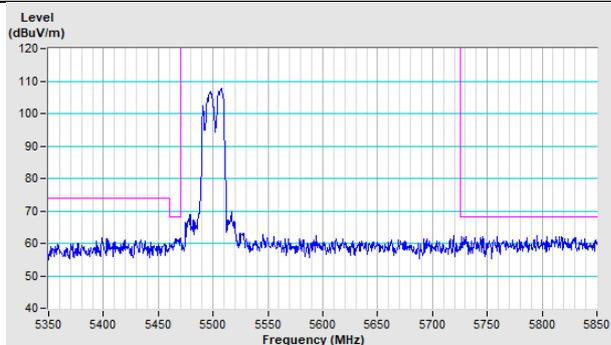
Horizontal (Peak)



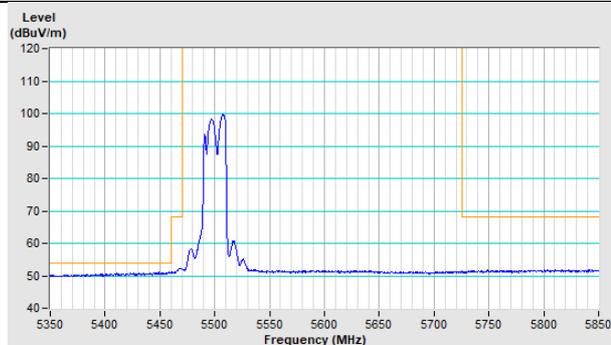
Horizontal (Average)



Vertical (Peak)

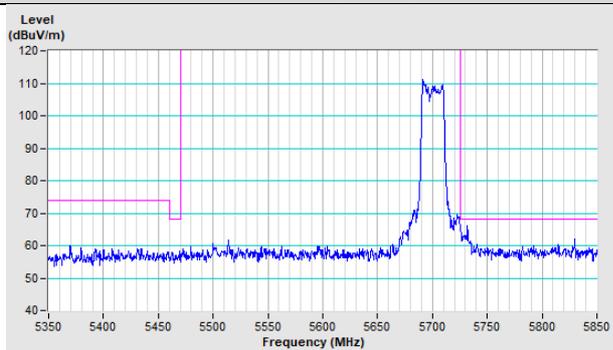


Vertical (Average)

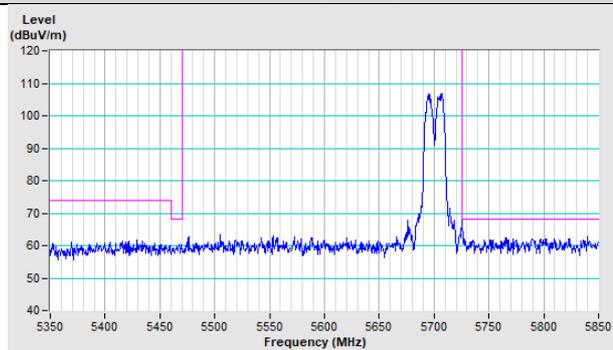


### 802.11ax (HE20) Channel 140

Horizontal (Peak)

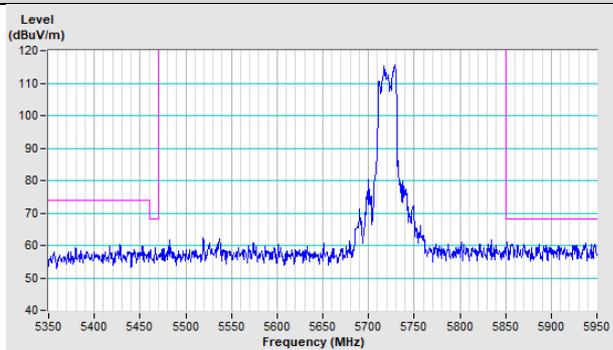


Vertical (Peak)

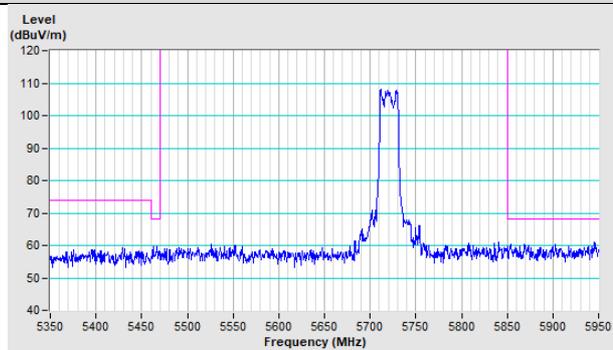


### 802.11ax (HE20) Channel 144

Horizontal (Peak)

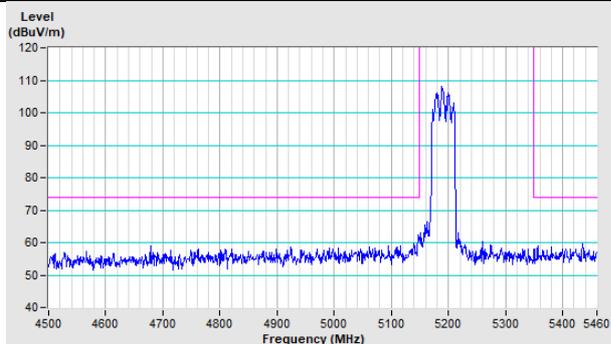


Vertical (Peak)

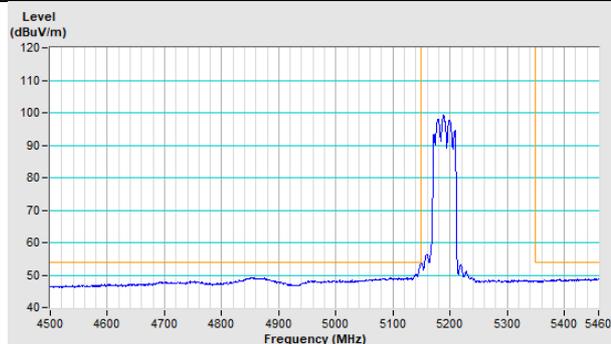


### 802.11ax (HE40) Channel 38

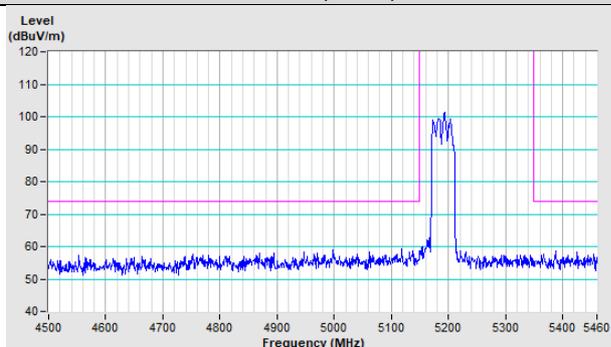
Horizontal (Peak)



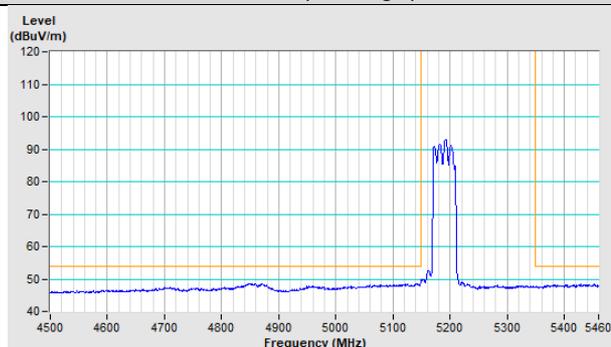
Horizontal (Average)



Vertical (Peak)

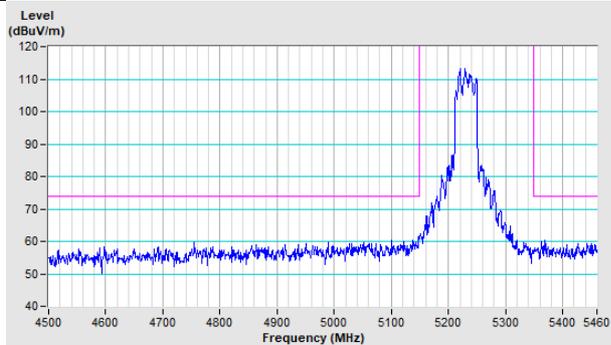


Vertical (Average)

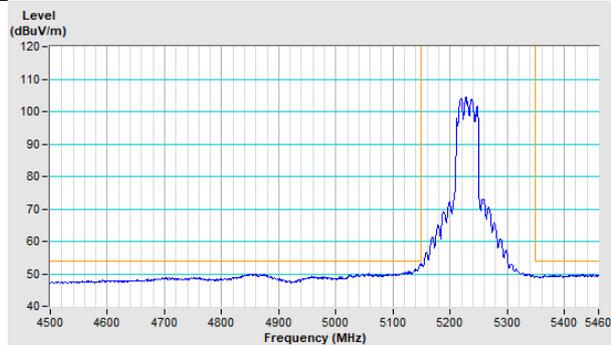


### 802.11ax (HE40) Channel 46

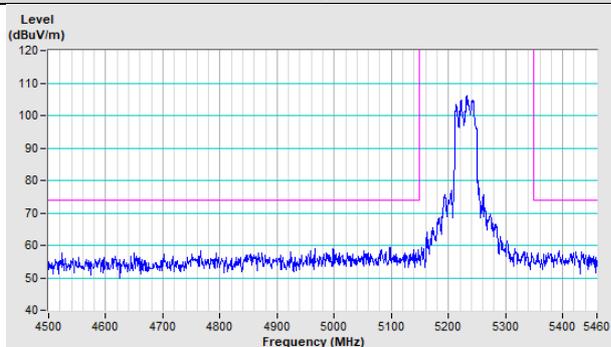
Horizontal (Peak)



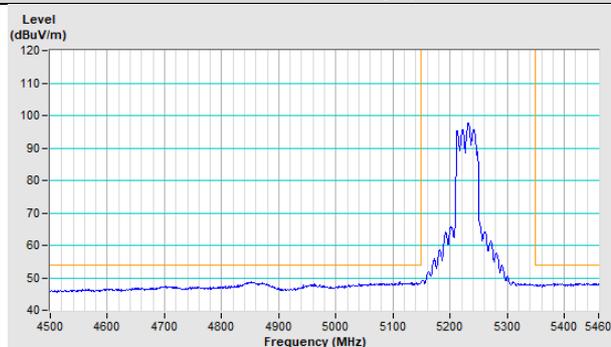
Horizontal (Average)



Vertical (Peak)



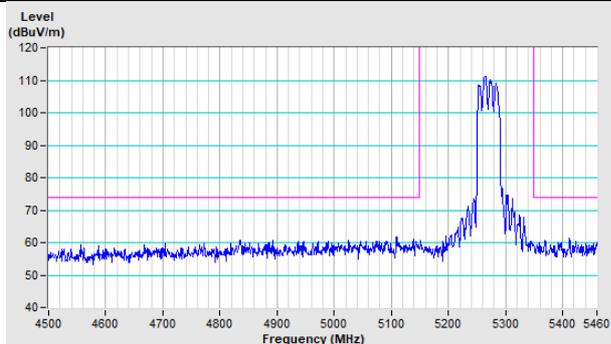
Vertical (Average)



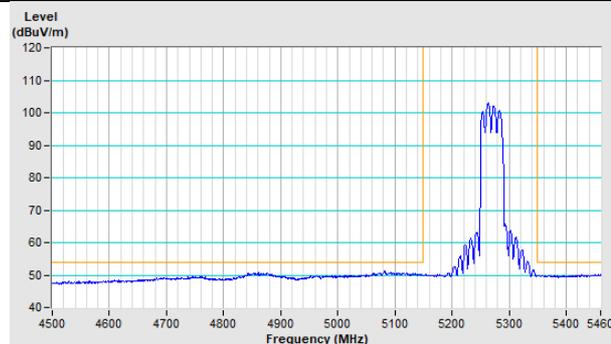


### 802.11ax (HE40) Channel 54

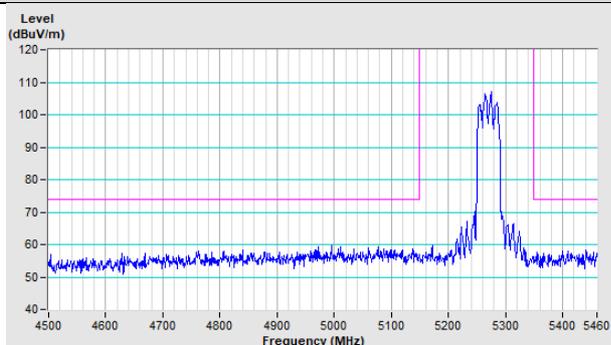
Horizontal (Peak)



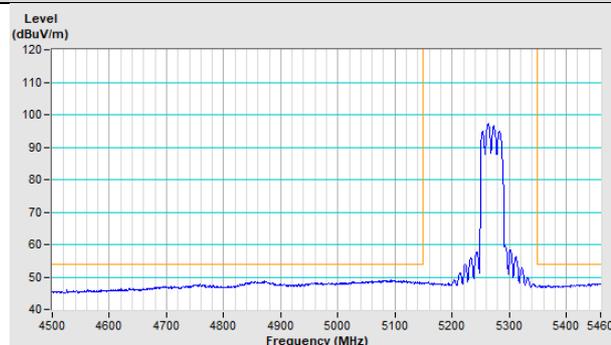
Horizontal (Average)



Vertical (Peak)

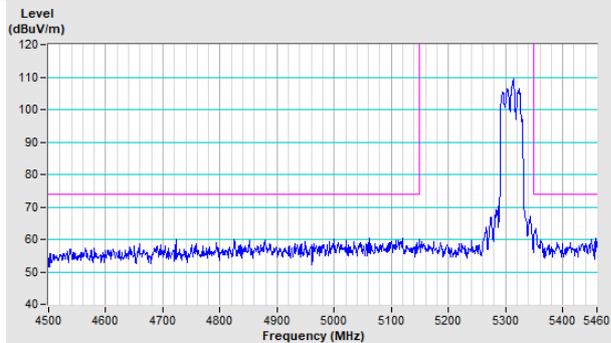


Vertical (Average)

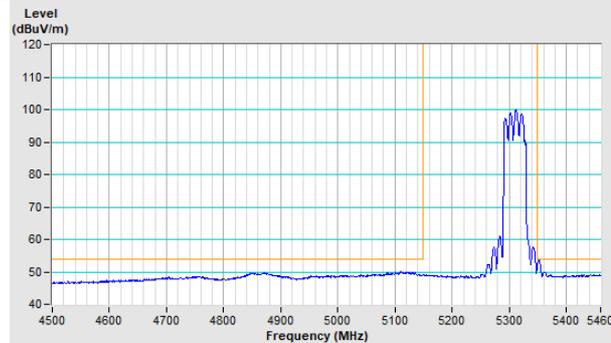


### 802.11ax (HE40) Channel 62

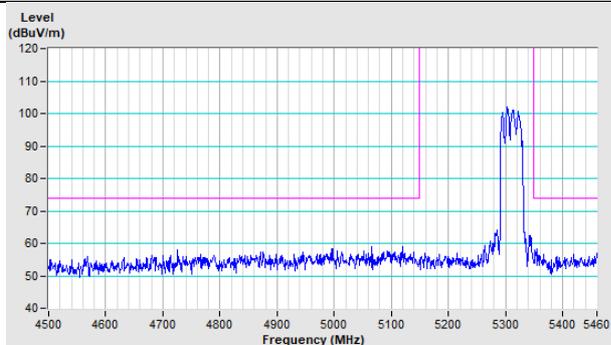
Horizontal (Peak)



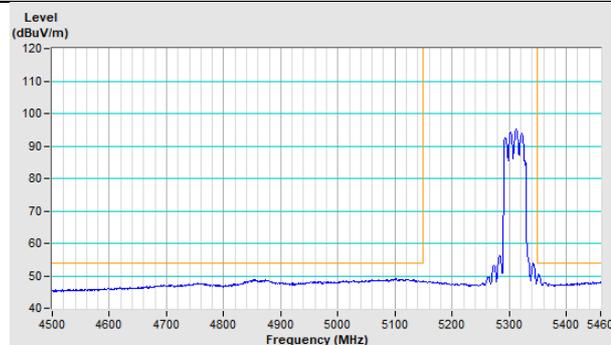
Horizontal (Average)



Vertical (Peak)

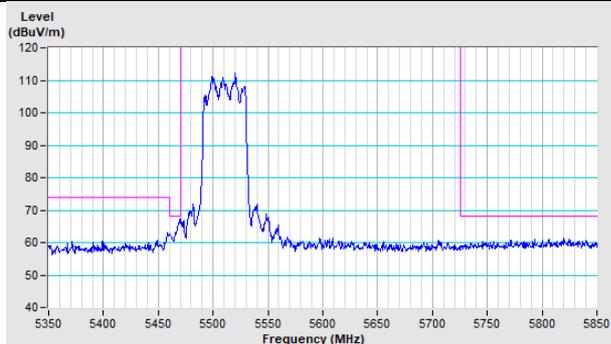


Vertical (Average)

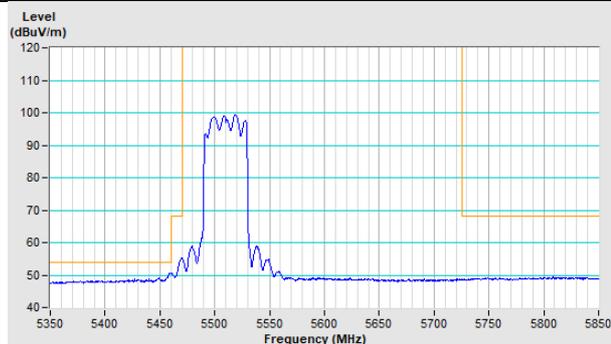


### 802.11ax (HE40) Channel 102

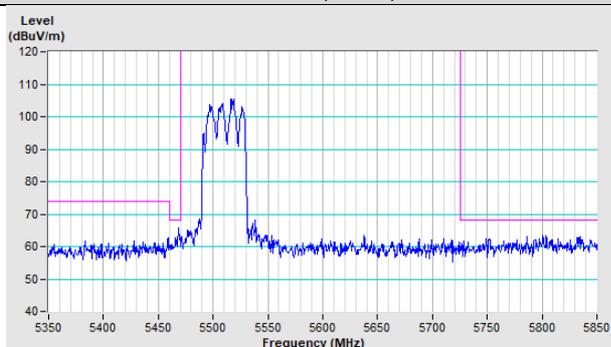
Horizontal (Peak)



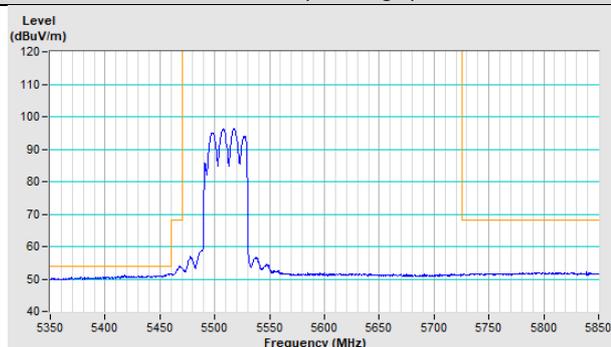
Horizontal (Average)



Vertical (Peak)

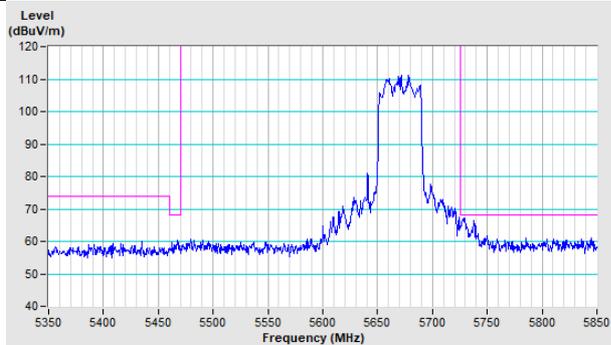


Vertical (Average)

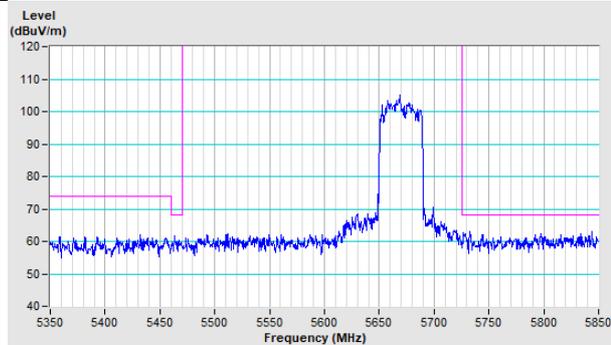


### 802.11ax (HE40) Channel 134

Horizontal (Peak)

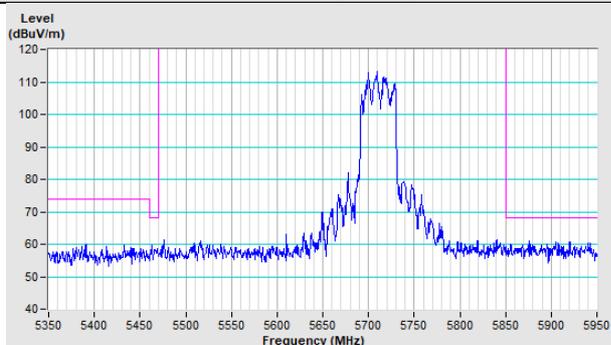


Vertical (Peak)

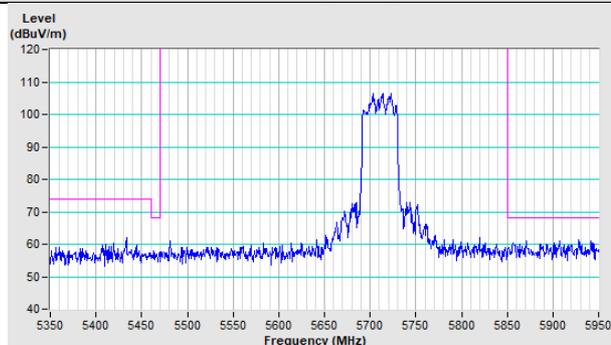


### 802.11ax (HE40) Channel 142

Horizontal (Peak)

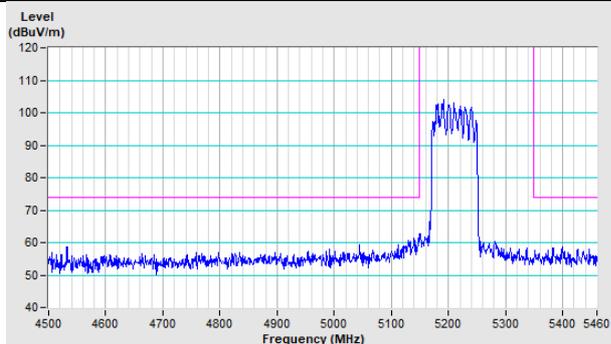


Vertical (Peak)

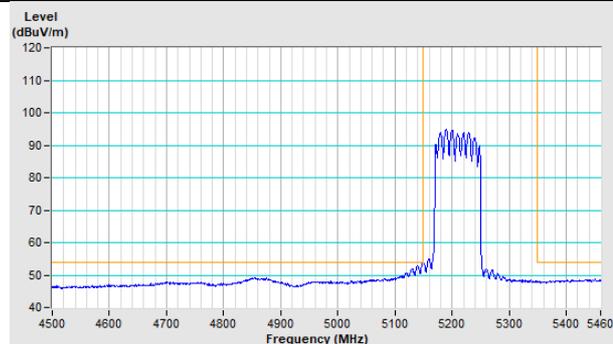


### 802.11ax (HE80) Channel 42

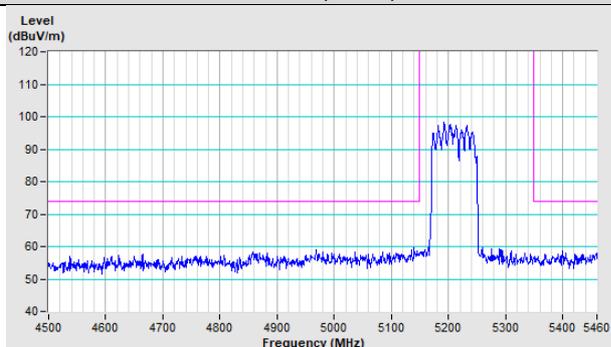
Horizontal (Peak)



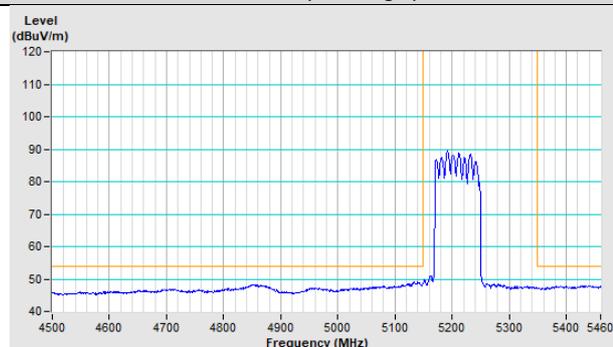
Horizontal (Average)



Vertical (Peak)

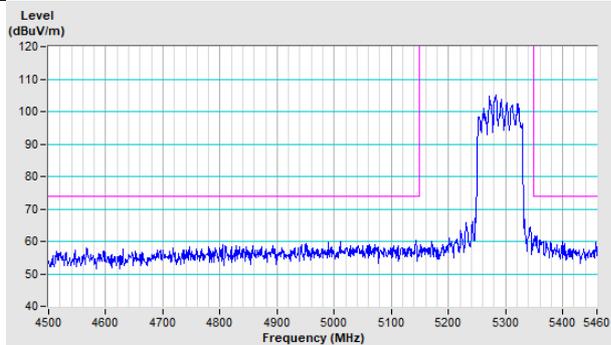


Vertical (Average)

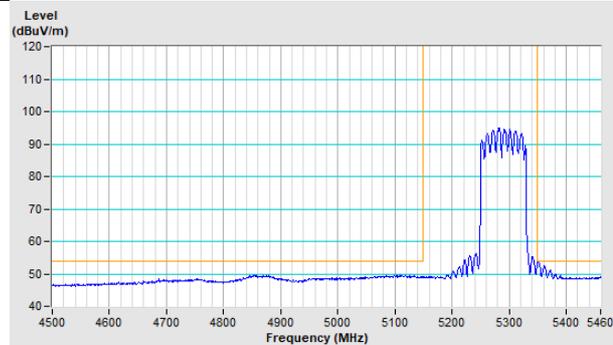


### 802.11ax (HE80) Channel 58

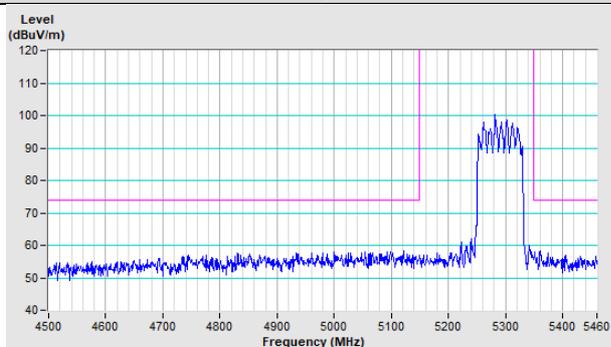
Horizontal (Peak)



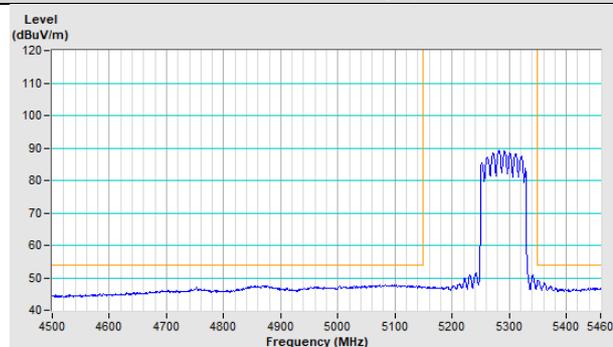
Horizontal (Average)



Vertical (Peak)

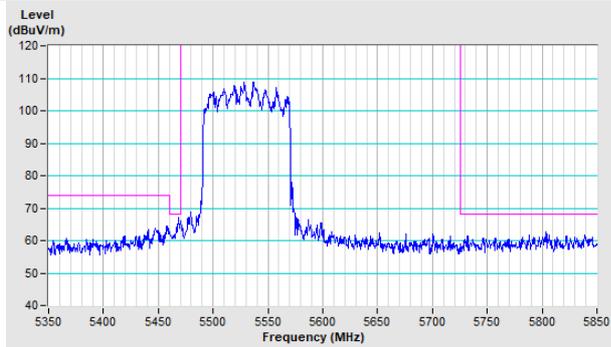


Vertical (Average)

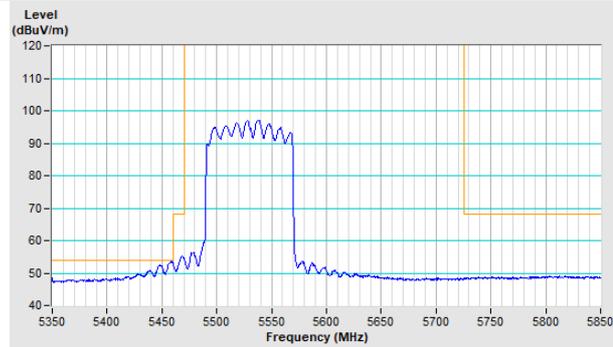


### 802.11ax (HE80) Channel 106

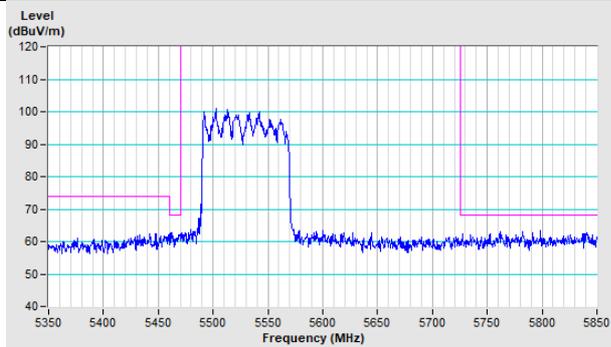
Horizontal (Peak)



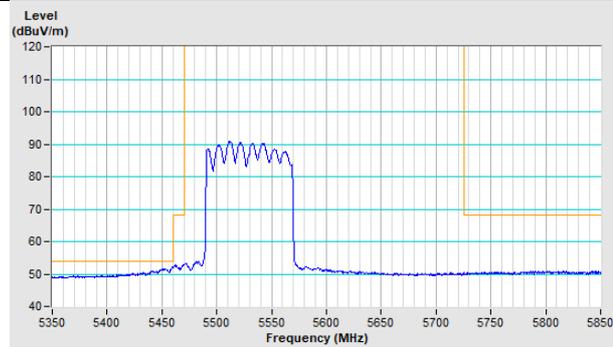
Horizontal (Average)



Vertical (Peak)

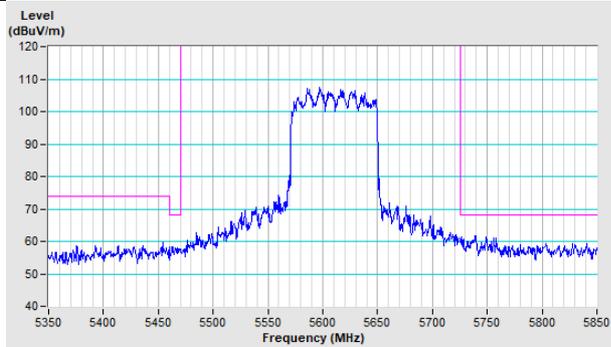


Vertical (Average)

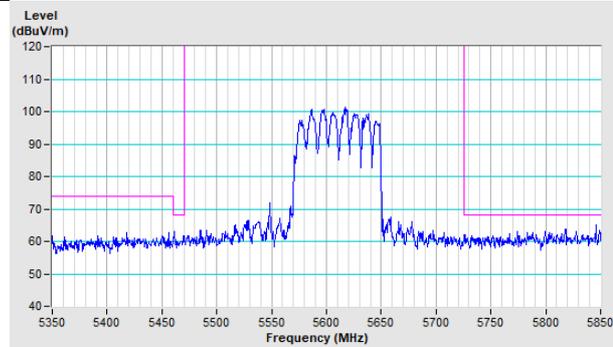


### 802.11ax (HE80) Channel 122

Horizontal (Peak)

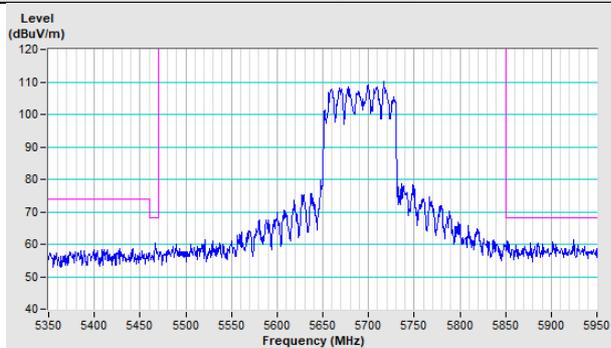


Vertical (Peak)

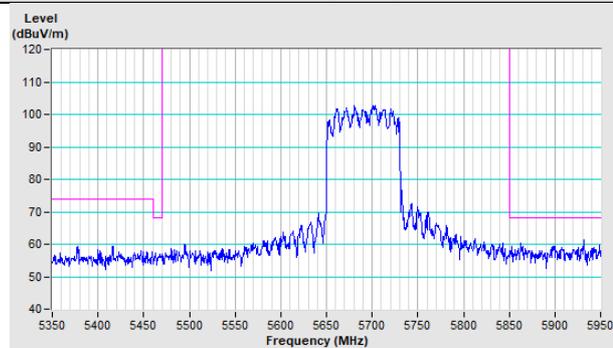


### 802.11ax (HE80) Channel 138

Horizontal (Peak)

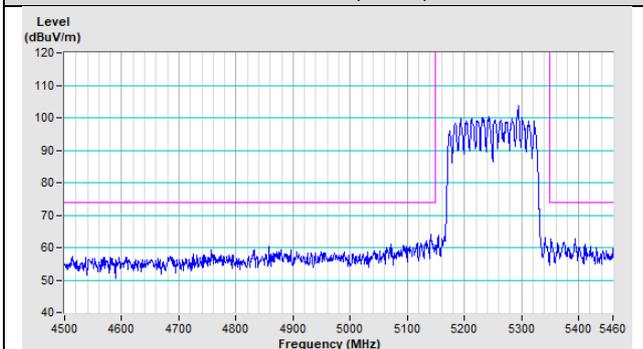


Vertical (Peak)

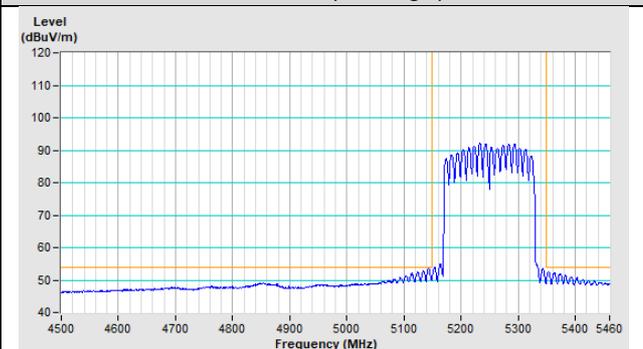


802.11ax (HE160) Channel 50

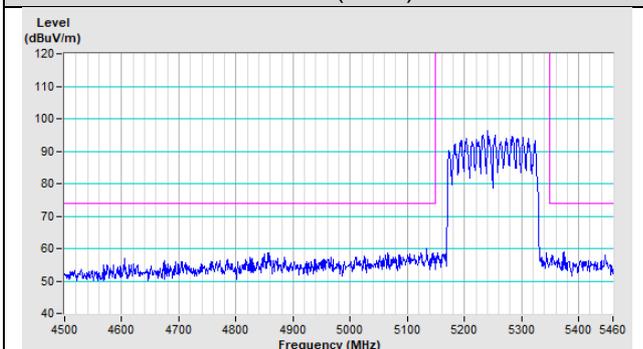
Horizontal (Peak)



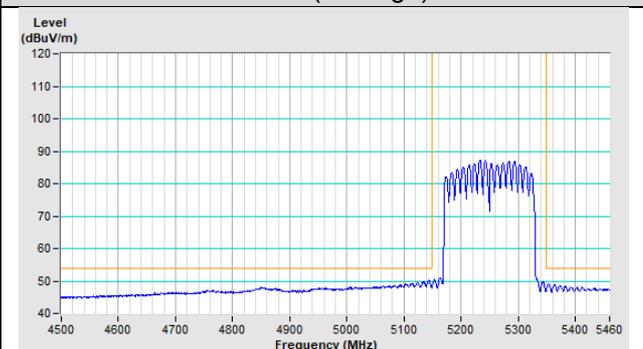
Horizontal (Average)



Vertical (Peak)

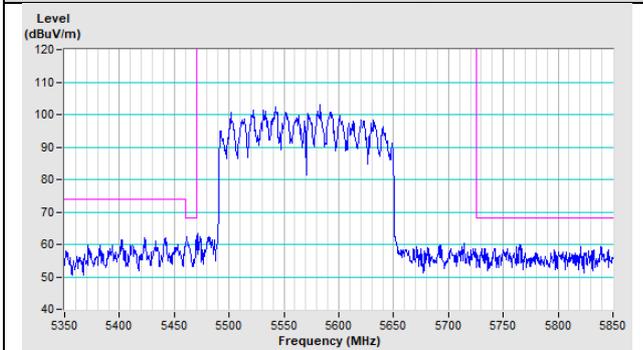


Vertical (Average)

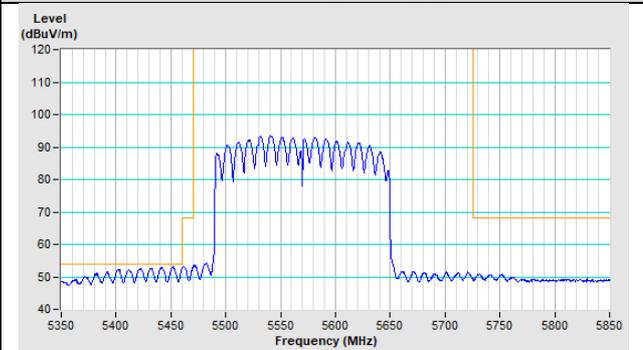


802.11ax (HE160) Channel 114

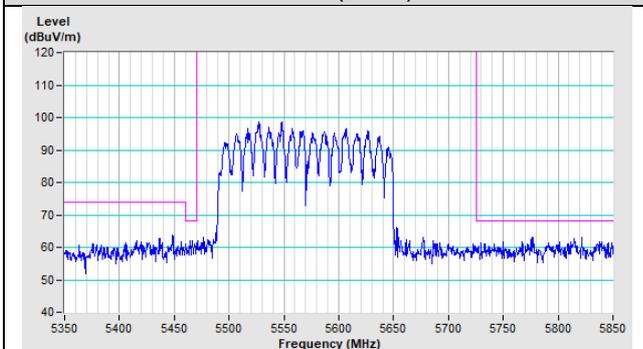
Horizontal (Peak)



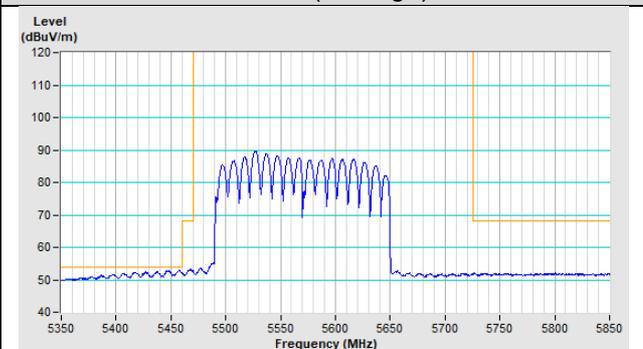
Horizontal (Average)



Vertical (Peak)



Vertical (Average)



## Appendix – 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 and approved according to ISO/IEC 17025.

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

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