

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Report No.: RFBCKS-WTW-P25120649-1
FCC ID: NKR-TELE2
Product: TELE2
Brand: WNC Corporation
Model No.: TELE2
Received Date: 2025/12/29
Test Date: 2026/3/12 ~ 2026/4/23
Issued Date: 2026/6/18
Applicant: WNC Corporation
Address: 20 Park Avenue II, Hsinchu Science Park, Hsinchu 308, Taiwan
Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories
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Test Location(2): No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
FCC Registration / 788550 / TW0003 for Test Location(1)
Designation Number: 281270 / TW0032 for Test Location(2)

Approved by:

Jeremy Lin

Jeremy Lin / Project Engineer

, Date:

2026/6/18

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Prepared by : Celine Chou / Senior Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBCKS-WTW-P25120649-1	Original release.	2026/6/18

1 Certificate

Product: TELE2
Brand: WNC Corporation
Test Model: TELE2
Sample Status: Engineering sample
Applicant: WNC Corporation
Test Date: 2026/3/12 ~ 2026/4/23
Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Measurement procedure: ANSI C63.10-2020
KDB 789033 D02 General UNII Test Procedure New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	-	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(b)(9)	AC Power Conducted Emissions	N/A	Power supply is from battery.
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -9.4 dB at 935.98 MHz
15.407(b) (1/10) 15.407(b) (2/10) 15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -1.0 dB at 11650.00 MHz
15.203	Antenna Requirement	Pass	No antenna connector is used.

Notes:

- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- The "Dynamic Frequency Selection measurement" was recorded in DFS test report.

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
26 dB Bandwidth	-	206.5 Hz
RF Output Power	-	1.371 dB
Power Spectral Density	-	1.017 dB
6 dB Bandwidth	-	206.5 Hz
Occupied Bandwidth	-	72 Hz
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.00 dB
	30 MHz ~ 1 GHz	2.92 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 dB

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

Product	TELE2
Brand	WNC Corporation
Test Model	TELE2
Status of EUT	Engineering sample
Power Supply Rating	9-16 Vdc
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode 4096QAM for OFDMA in 11be mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 1733.3 Mbps 802.11ax: up to 2401.9 Mbps 802.11be: up to 2882.4 Mbps
Operating Frequency	5.18 GHz ~ 5.25 GHz 5.25 GHz ~ 5.32 GHz 5.50 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40): 12 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80): 6 802.11ac (VHT160), 802.11ax (HE160), 802.11be (EHT160): 2
Output Power	5.18 GHz ~ 5.25 GHz: 14.083 mW (11.49 dBm) 5.25 GHz ~ 5.32 GHz: 13.879 mW (11.42 dBm) 5.50 GHz ~ 5.72 GHz: 16.893 mW (12.28 dBm) 5.745 GHz ~ 5.825 GHz: 16.468 mW (12.17 dBm)
EUT Category	Client device

Note:

1. There are Bluetooth, WLAN (2.4 GHz & 5 GHz) and WWAN technology used for the EUT.
2. Simultaneously transmission combination.

Combination	Technology		
1	WWAN	WLAN (5 GHz)	Bluetooth
2	WWAN	WLAN (2.4 GHz)	WLAN (5 GHz)

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

3. The EUT contains certified WWAN module which FCC ID: NKR-VMC-SA525MWM.
4. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna No.	Brand	Model	Antenna Net Gain (dBi)	Frequency range	Antenna Type	Connector Type
Ant. 5 (WiFi only)	WNC	Tele-2	3.84	2.4 ~ 2.4835 GHz	PIFA	None (like solder)
			4.87	5.15 ~ 5.85 GHz		
			4.98	5.925 ~ 7.125 GHz		
Ant. 6 (WiFi only)	WNC	Tele-2	3.93	2.4 ~ 2.4835 GHz	PIFA	None (like solder)
			4.89	5.15 ~ 5.85 GHz		
			4.92	5.925 ~ 7.125 GHz		
Ant. 9 (BT only)	WNC	Tele-2	3.47	2.4 ~ 2.4835 GHz	PIFA	None (like solder)

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

2. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	Tx & Rx Configuration	
802.11a	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ac (VHT160)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
802.11ax (HE160)	2TX	2RX
802.11be (EHT20)	2TX	2RX
802.11be (EHT40)	2TX	2RX
802.11be (EHT80)	2TX	2RX
802.11be (EHT160)	2TX	2RX

Note: The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 160 MHz), 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160 MHz) and 802.11be mode for 20 MHz (40 MHz, 80 MHz, 160 MHz). Therefore the investigated worst case is the representative mode in test report.

3.3 Channel List

FOR 5180 ~ 5320 MHz

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20):

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

4 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40):

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

2 channels are provided for 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

1 straddle channel is provided for 802.11ac (VHT160), 802.11ax (HE160), 802.11be (EHT160):

Channel	Frequency
50	5250 MHz

FOR 5500 ~ 5720 MHz

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20):

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), 802.11be (EHT40):

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), 802.11be (EHT80):

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

1 channel is provided for 802.11ac (VHT160), 802.11ax (HE160), 802.11be (EHT160):

Channel	Frequency
114	5570 MHz

FOR 5745 ~ 5825 MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20):

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

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition. 2. 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).
Worst Case:	X-axis/ Y-axis/ Z-axis Worst Condition:X-axis

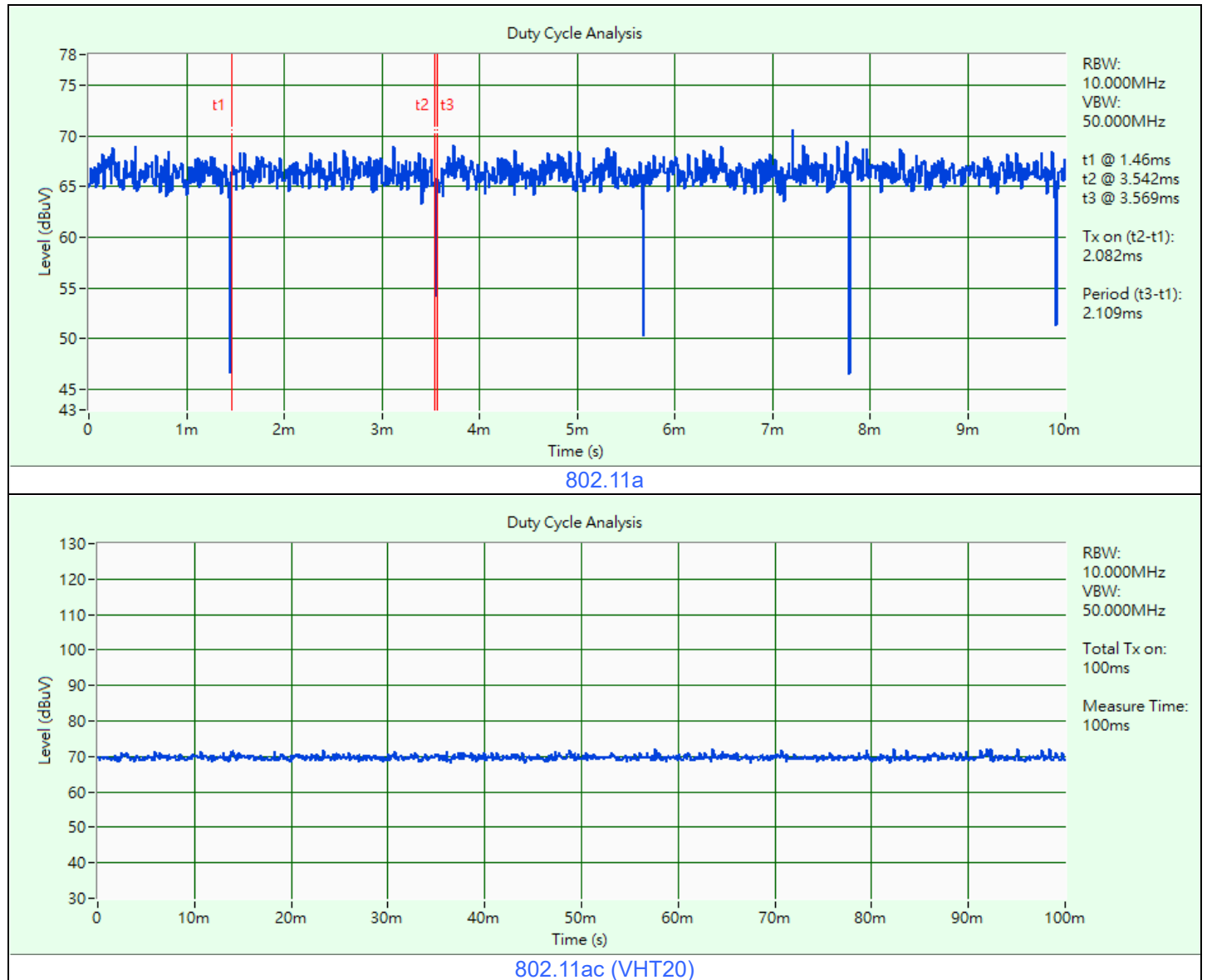
Following channel(s) was (were) selected for the final test as listed below:

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	52, 60, 64, 100, 120, 140, 144	BPSK	6Mb/s
	802.11ac (VHT20)	52, 60, 64, 100, 120, 140, 144	BPSK	MCS0
	802.11ac (VHT40)	54, 62, 102, 126, 134, 142	BPSK	MCS0
	802.11ac (VHT80)	58, 106, 122, 138	BPSK	MCS0
	802.11ac (VHT160)	50, 114	BPSK	MCS0
RF Output Power	802.11a	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11n (HT20)	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11n (HT40)	38, 46, 54, 62, 102, 126, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT20)	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	38, 46, 54, 62, 102, 126, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ac (VHT160)	50, 114	BPSK	MCS0
	802.11ax (HE20)	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	38, 46, 54, 62, 102, 126, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE160)	50, 114	BPSK	MCS0
	802.11be (EHT20)	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11be (EHT40)	38, 46, 54, 62, 102, 126, 134, 142, 151, 159	BPSK	MCS0
	802.11be (EHT80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11be (EHT160)	50, 114	BPSK	MCS0
Power Spectral Density	802.11a	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	38, 46, 54, 62, 102, 126, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ac (VHT160)	50, 114	BPSK	MCS0

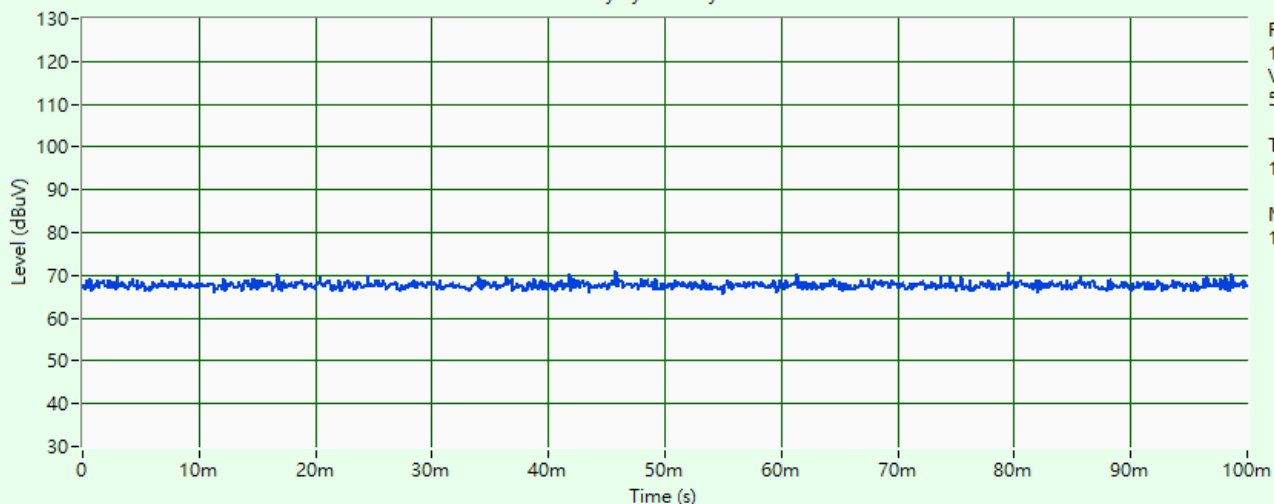
Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
6 dB Bandwidth	802.11a	144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	138, 155	BPSK	MCS0
Occupied Bandwidth	802.11a	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	38, 46, 54, 62, 102, 126, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ac (VHT160)	50, 114	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11a	100	BPSK	6Mb/s
Unwanted Emissions above 1 GHz	802.11a	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	36, 40, 48, 52, 60, 64, 100, 120, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	38, 46, 54, 62, 102, 126, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ac (VHT160)	50, 114	BPSK	MCS0

3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = $2.082 \text{ ms} / 2.109 \text{ ms} \times 100\% = 98.7\%$
802.11ac (VHT20): Duty cycle = $100 \text{ ms} / 100 \text{ ms} \times 100\% = 100.0\%$
802.11ac (VHT40): Duty cycle = $100 \text{ ms} / 100 \text{ ms} \times 100\% = 100.0\%$
802.11ac (VHT80): Duty cycle = $100 \text{ ms} / 100 \text{ ms} \times 100\% = 100.0\%$
802.11ac (VHT160): Duty cycle = $100 \text{ ms} / 100 \text{ ms} \times 100\% = 100.0\%$

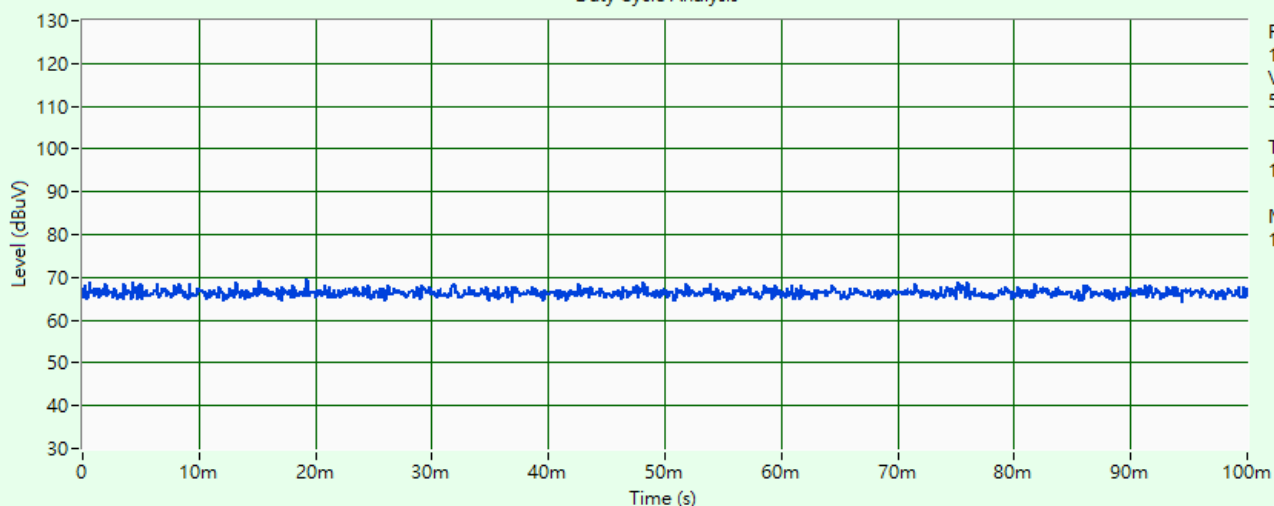


Duty Cycle Analysis



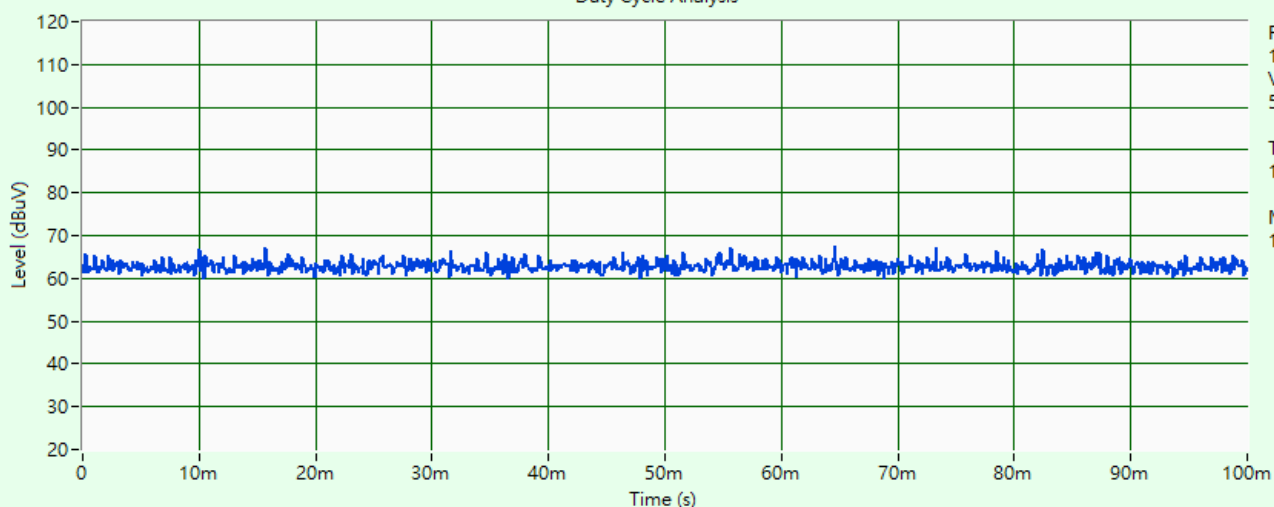
802.11ac (VHT40)

Duty Cycle Analysis



802.11ac (VHT80)

Duty Cycle Analysis

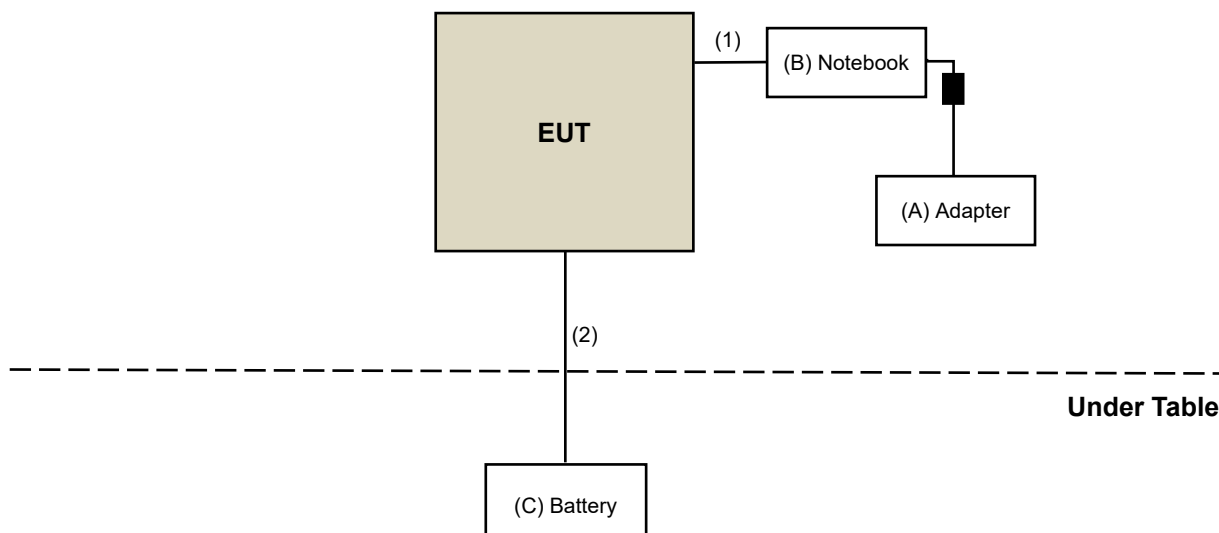


802.11ac (VHT160)

3.6 Test Program Used and Operation Descriptions

Controlling software ADB_V4.2.2 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	Lenovo	ADLX65NDC3A	N/A	N/A	Provided by Lab
B	Notebook	Lenovo	L440	R9-0GFJKK	N/A	Provided by Lab
C	Battery	Global	NX120-7L	NA	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	USB Cable	1	1	No	0	Supplied by applicant
2	DC Cable	1	2	No	0	Supplied by applicant

4 Test Instruments

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

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/3/21

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Peak Power Analyzer Keysight	8990B	MY51000538	2025/5/23	2026/5/22
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
USB Power Sensor Anritsu	MA24408A	12994	2025/12/5	2026/12/4
Wideband Power Sensor Keysight	N1923A	MY58200003	2025/5/29	2026/5/28

Notes:

1. The test was performed in HY - Oven room(Hwaya).
2. Tested Date: 2026/3/21

4.3 Power Spectral Density

Refer to section 4.1 to get the tested date and information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower KaiTuo	N/A	N/A	N/A	N/A
Antenna Tower Controller KaiTuo	KT-2000	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-995	2025/9/17	2026/9/16
Loop Antenna TESEQ	HLA 6121	45745	2025/9/1	2026/8/31
MXE EMI Receiver Agilent	N9038A	MY52260177	2025/10/3	2026/10/2
Preamplifier EMCI	EMC330N	980783	2026/1/13	2027/1/12
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201245	2026/1/13	2027/1/12
	EMCCFD400-NM-NM-3000	201250	2026/1/13	2027/1/12
	EMCCFD400-NM-NM-9000	201252(with PAD)	2026/1/13	2027/1/12
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208675	N/A	N/A
UXA Signal Analyzer Keysight	N9040B	MY59490105	2026/1/14	2027/1/13

Notes:

1. The test was performed in WM - 966 chamber 7(Wenming).
2. Tested Date: 2026/3/14 ~ 2026/3/15

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower KaiTuo	N/A	N/A	N/A	N/A
Antenna Tower Controller KaiTuo	KT-2000	N/A	N/A	N/A
Horn Antenna RFSPIN	DRH18-E	210104A18E	2025/11/9	2026/11/8
Horn Antenna Schwarzbeck	BBHA 9170	9170-1048	2025/11/9	2026/11/8
MXE EMI Receiver Agilent	N9038A	MY52260177	2025/10/3	2026/10/2
Preamplifier EMCI	EMC118A45SE	980810	2025/12/24	2026/12/23
	EMC184045SE	980787	2026/1/13	2027/1/12
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2026/1/13	2027/1/12
		201255	2026/1/13	2027/1/12
	EMC101G-KM-KM-5000	201261	2026/1/13	2027/1/12
	EMC104-SM-SM-1000	210101	2026/1/13	2027/1/12
	EMC104-SM-SM-3000	201242	2026/1/13	2027/1/12
	EMC104-SM-SM-9000	201230	2026/1/13	2027/1/12
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208675	N/A	N/A
UXA Signal Analyzer Keysight	N9040B	MY59490105	2026/1/14	2027/1/13

Notes:

1. The test was performed in WM - 966 chamber 7(Wenming).
2. Tested Date: 2026/3/12 ~ 2026/4/23

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

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

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

*B is the 26 dB emission bandwidth in megahertz

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

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

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

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

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

5.3 Power Spectral Density

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	17 dBm/MHz
	Fixed point-to-point Access Points	
	Indoor Access Point	
	Client devices	11 dBm/MHz

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

5.4 6 dB Bandwidth

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

5.5 Occupied Bandwidth

The results are for reference only.

5.6 Unwanted Emissions below 1 GHz

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

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Notes:

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

5.7 Unwanted Emissions above 1 GHz

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

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

Notes:

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

Limits of unwanted emission out of the restricted bands

Applicable To	Limit	
789033 D02 General UNII Test Procedure New Rules v02r01	Field Strength at 3 m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)

For transmitters operating in the 5.15-5.25 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)

For transmitters operating in the 5.25-5.35 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(2)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)

For transmitters operating in the 5.47-5.725 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(3)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)

For transmitters operating in the 5.725-5.850 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2 (dBμV/m) ^{*1} PK: 105.2 (dBμV/m) ^{*2} PK: 110.8 (dBμV/m) ^{*3} PK: 122.2 (dBμV/m) ^{*4}
^{*1} beyond 75 MHz or more above of the band edge. ^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. ^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. ^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

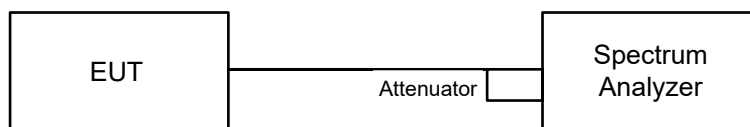
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

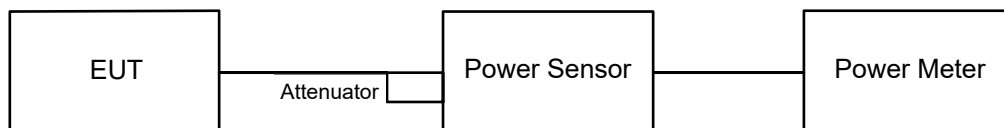


6.1.2 Test Procedure

- Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = peak.
- Trace mode = max-hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

6.2 RF Output Power

6.2.1 Test Setup



For channel straddling:



6.2.2 Test Procedure

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

For channel straddling:

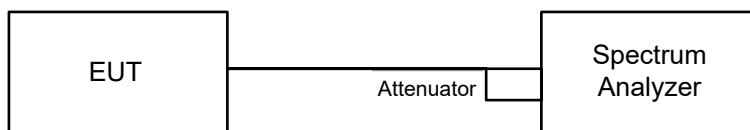
Method SA-1

- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS.
- Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging (rms) mode.
- Compute power by integrating the spectrum across the 99% OBW of the signal using the instrument's band-power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band-power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 99% OBW of the spectrum.
- Record the max value.

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

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS.
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

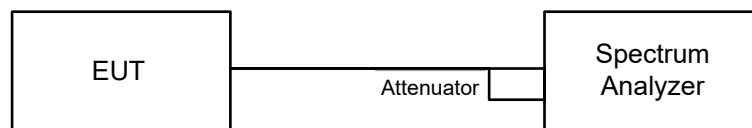
For specified measurement bandwidth 500 kHz:

Method SA-1

- Set span to encompass the entire 99% OBW of the signal
- Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS.
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$.
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value.

6.4 6 dB Bandwidth

6.4.1 Test Setup

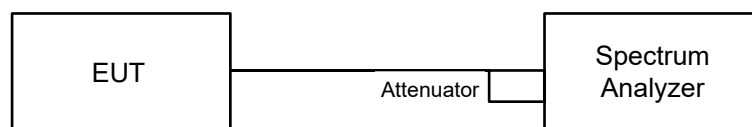


6.4.2 Test Procedure

- Set RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max-hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.5 Occupied Bandwidth

6.5.1 Test Setup



6.5.2 Test Procedure

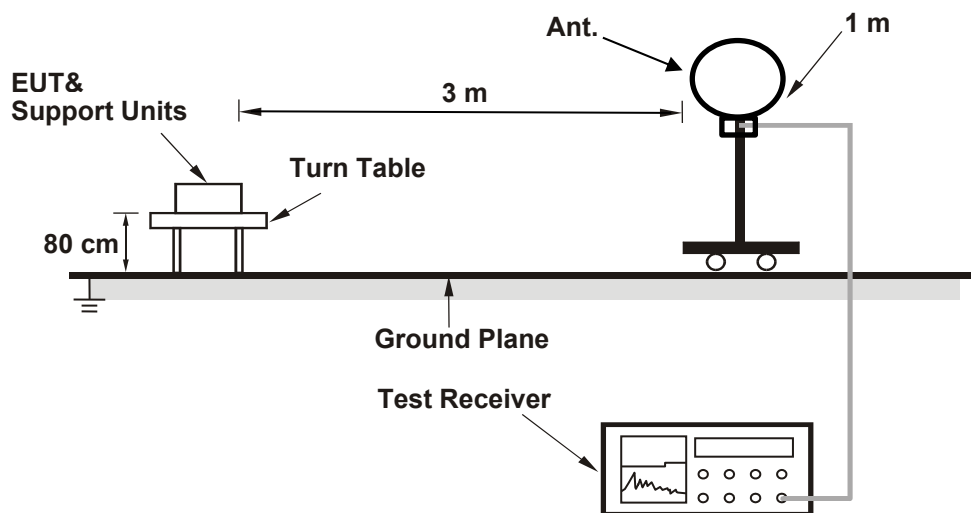
The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level.
- Step a) through step c) might require iteration to adjust within the specified range.
- Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

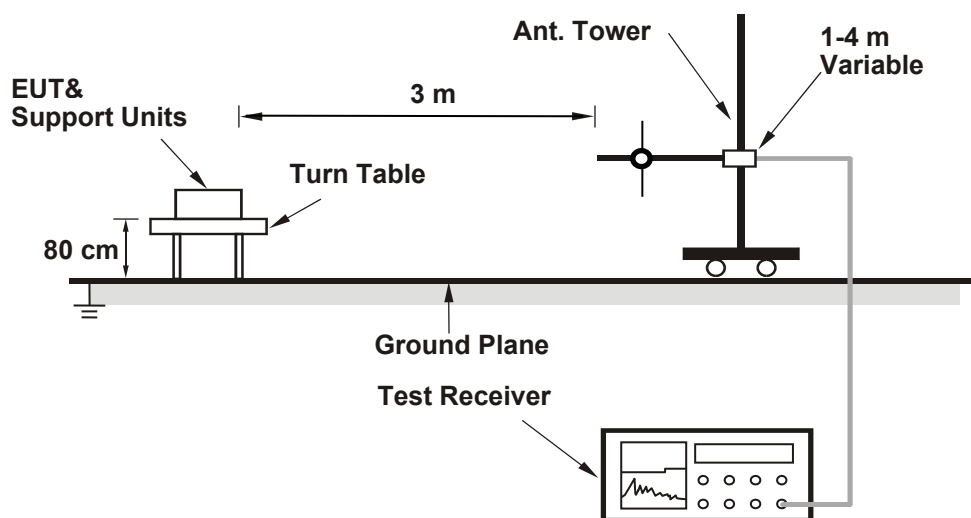
6.6 Unwanted Emissions below 1 GHz

6.6.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.6.2 Test Procedure

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode (however, peak detector measurements may be used to determine compliance with QP requirements), except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

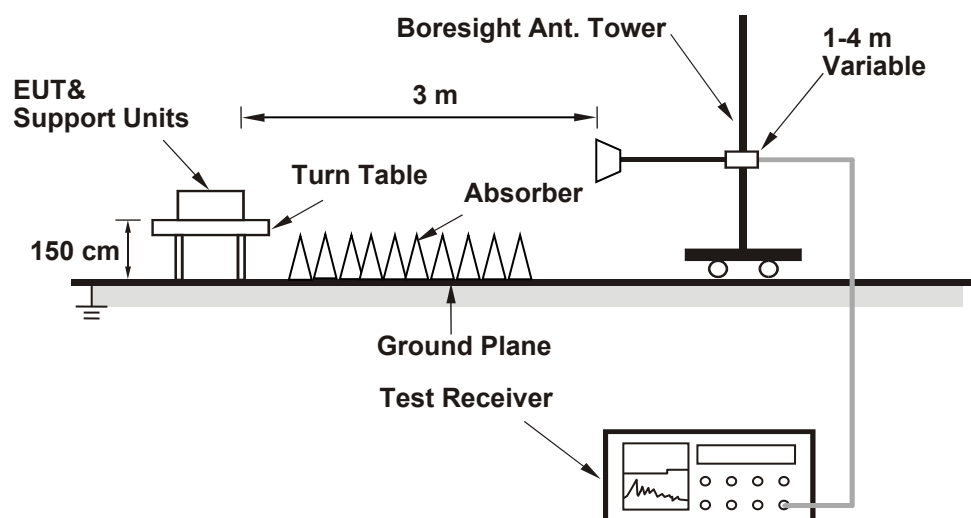
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz (however, peak detector measurements may be used to determine compliance with QP requirements).
2. All modes of operation were investigated and the worst-case emissions are reported.

6.7 Unwanted Emissions above 1 GHz

6.7.1 Test Setup



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

6.7.2 Test Procedure

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

Notes:

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

7 Test Results of Test Item

7.1 26 dB Bandwidth

Input Power:	12 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Match Tsui
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	21.36	21.36
60	5300	21.49	21.41
64	5320	21.32	21.41
100	5500	21.47	21.31
120	5600	21.51	21.40
140	5700	21.60	21.45
144 (U-NII-2C)	5720	15.73	15.70
144 (U-NII-3)	5720	5.72	5.70

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	21.36	24.29	>	24
60	5300	21.41	24.30	>	24
64	5320	21.32	24.28	>	24
100	5500	21.31	24.28	>	24
120	5600	21.40	24.30	>	24
140	5700	21.45	24.31	>	24
144 (U-NII-2C)	5720	15.70	22.95	<	24

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

802.11ac (VHT20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	22.16	21.73
60	5300	21.78	21.76
64	5320	22.04	21.84
100	5500	21.82	21.98
120	5600	21.80	21.61
140	5700	21.91	22.13
144 (U-NII-2C)	5720	16.04	16.07
144 (U-NII-3)	5720	5.74	5.80

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	21.73	24.37	>	24
60	5300	21.76	24.37	>	24
64	5320	21.84	24.39	>	24
100	5500	21.82	24.38	>	24
120	5600	21.61	24.34	>	24
140	5700	21.91	24.40	>	24
144 (U-NII-2C)	5720	16.04	23.05	<	24

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

802.11ac (VHT40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	43.45	43.24
62	5310	43.72	43.15
102	5510	43.79	43.28
126	5630	43.28	42.98
134	5670	43.76	43.21
142 (U-NII-2C)	5710	36.71	36.73
142 (U-NII-3)	5710	6.66	6.74

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
54	5270	43.24	27.35	>	24
62	5310	43.15	27.34	>	24
102	5510	43.28	27.36	>	24
126	5630	42.98	27.33	>	24
134	5670	43.21	27.35	>	24
142 (U-NII-2C)	5710	36.71	26.64	>	24

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

802.11ac (VHT80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	95.74	92.17
106	5530	94.03	93.71
122	5610	93.89	93.40
138 (U-NII-2C)	5690	82.42	81.05
138 (U-NII-3)	5690	11.84	11.33

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
58	5290	92.17	30.64	>	24
106	5530	93.71	30.71	>	24
122	5610	93.40	30.70	>	24
138 (U-NII-2C)	5690	81.05	30.08	>	24

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

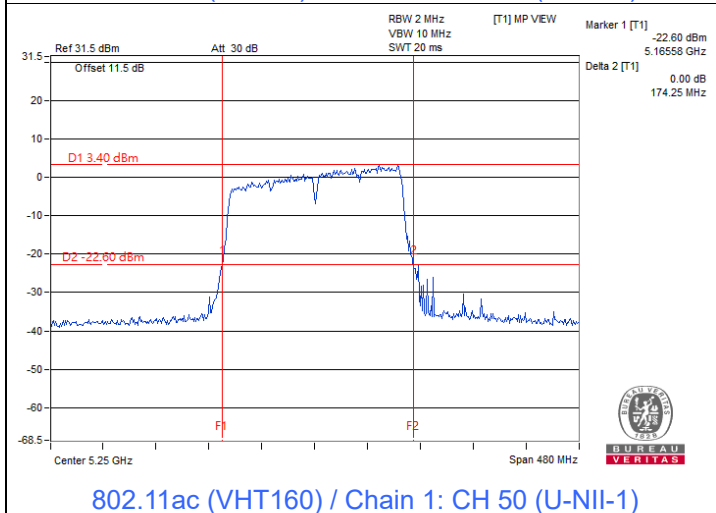
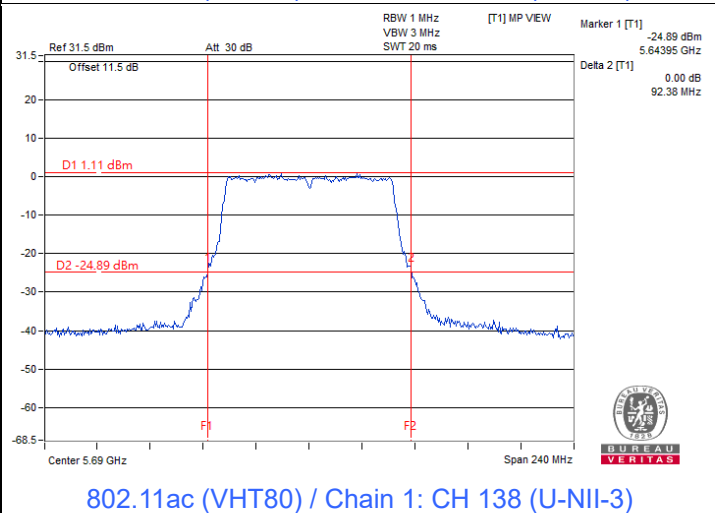
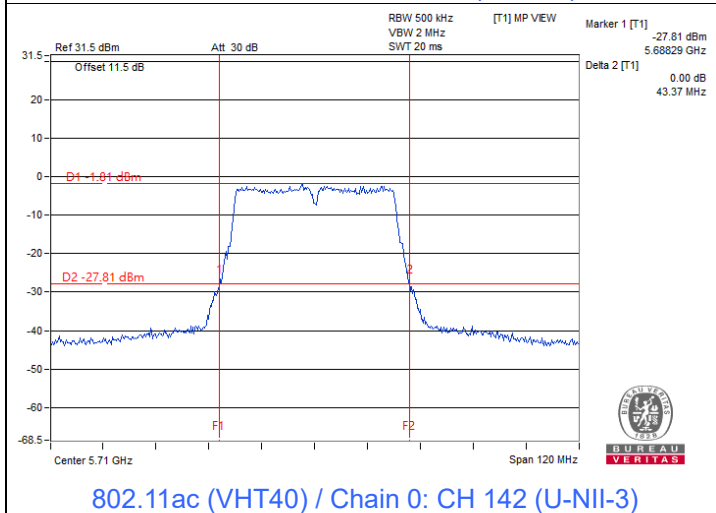
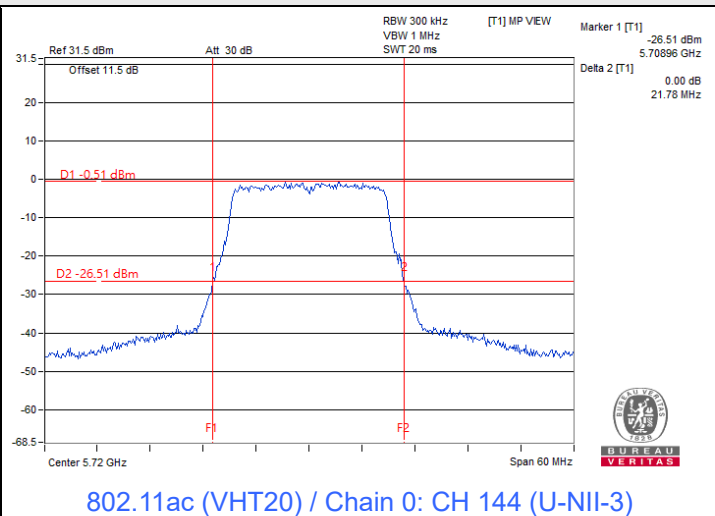
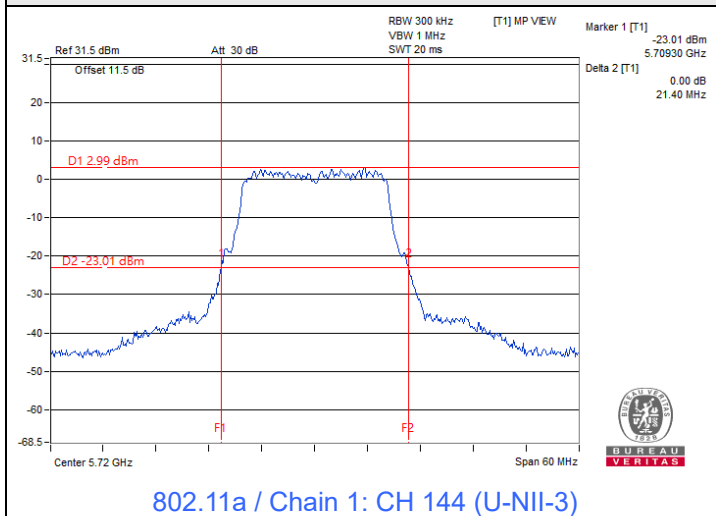
802.11ac (VHT160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	87.65	84.42
50 (U-NII-2A)	5250	90.00	89.83
114	5570	178.78	177.63

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
50 (U-NII-2A)	5250	89.83	30.53	>	24
114	5570	177.63	33.49	>	24

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

Spectrum Plot of Minimum Value



Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1
2. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz
3. For U-NII-1 straddle channel = 5250 MHz - Marker 1
4. For U-NII-2A straddle channel = Marker 1 + Delta 2 - 5250 MHz

7.2 RF Output Power

Input Power:	12 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Match Tsui
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802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	7.42	9.16	13.762	11.39	24	Pass
40	5200	7.38	9.11	13.617	11.34	24	Pass
48	5240	7.49	9.28	14.083	11.49	24	Pass
52	5260	7.46	9.10	13.700	11.37	24	Pass
60	5300	7.50	9.12	13.789	11.40	24	Pass
64	5320	7.54	9.14	13.879	11.42	24	Pass
100	5500	7.82	10.35	16.893	12.28	24	Pass
120	5600	7.80	10.31	16.765	12.24	24	Pass
140	5700	7.78	10.28	16.664	12.22	24	Pass
*144 (U-NII-2C)	5720	3.79	5.97	6.347	8.03	22.95	Pass
*144 (U-NII-3)	5720	-0.33	1.96	2.497	3.97	30	Pass
149	5745	8.28	9.77	16.214	12.10	30	Pass
157	5785	8.31	9.81	16.348	12.13	30	Pass
165	5825	8.33	9.85	16.468	12.17	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	6.92	8.56	12.098	10.83	24	Pass
40	5200	6.87	8.49	11.927	10.77	24	Pass
48	5240	6.83	8.42	11.770	10.71	24	Pass
52	5260	6.86	8.55	12.014	10.80	24	Pass
60	5300	6.83	8.49	11.883	10.75	24	Pass
64	5320	6.79	8.45	11.774	10.71	24	Pass
100	5500	7.18	9.46	14.055	11.48	24	Pass
120	5600	7.11	9.40	13.850	11.41	24	Pass
140	5700	6.98	9.27	13.442	11.28	24	Pass
*144 (U-NII-2C)	5720	2.63	6.91	6.741	8.29	23.05	Pass
*144 (U-NII-3)	5720	-1.99	1.07	1.912	2.81	30	Pass
149	5745	6.96	8.75	12.465	10.96	30	Pass
157	5785	6.93	8.65	12.260	10.88	30	Pass
165	5825	6.99	8.75	12.499	10.97	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	6.51	8.11	10.949	10.39	24	Pass
46	5230	6.37	8.10	10.792	10.33	24	Pass
54	5270	6.71	7.99	10.983	10.41	24	Pass
62	5310	6.65	7.91	10.804	10.34	24	Pass
102	5510	6.54	8.81	12.111	10.83	24	Pass
126	5630	6.61	8.87	12.290	10.90	24	Pass
134	5670	6.57	8.84	12.195	10.86	24	Pass
*142 (U-NII-2C)	5710	2.97	4.94	5.100	7.08	24	Pass
*142 (U-NII-3)	5710	-4.98	-2.74	0.850	-0.71	30	Pass
151	5755	6.53	8.28	11.228	10.50	30	Pass
159	5795	6.57	8.38	11.426	10.58	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	6.95	8.56	12.132	10.84	24	Pass
40	5200	6.91	8.52	12.021	10.80	24	Pass
48	5240	6.98	8.59	12.217	10.87	24	Pass
52	5260	7.16	8.66	12.545	10.98	24	Pass
60	5300	7.09	8.59	12.345	10.91	24	Pass
64	5320	7.06	8.55	12.243	10.88	24	Pass
100	5500	7.29	9.43	14.128	11.50	24	Pass
120	5600	7.18	9.37	13.874	11.42	24	Pass
140	5700	7.15	9.31	13.719	11.37	24	Pass
*144 (U-NII-2C)	5720	2.73	6.96	6.841	8.35	23.05	Pass
*144 (U-NII-3)	5720	-1.86	1.14	1.952	2.90	30	Pass
149	5745	6.98	8.85	12.662	11.03	30	Pass
157	5785	6.95	8.80	12.540	10.98	30	Pass
165	5825	7.01	8.89	12.768	11.06	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	6.51	8.15	11.008	10.42	24	Pass
46	5230	6.47	8.11	10.908	10.38	24	Pass
54	5270	6.85	8.02	11.180	10.48	24	Pass
62	5310	6.79	7.93	10.984	10.41	24	Pass
102	5510	6.69	8.95	12.519	10.98	24	Pass
126	5630	6.65	8.91	12.404	10.94	24	Pass
134	5670	6.62	8.87	12.301	10.90	24	Pass
*142 (U-NII-2C)	5710	2.99	5.04	5.182	7.14	24	Pass
*142 (U-NII-3)	5710	-4.85	-2.69	0.866	-0.63	30	Pass
151	5755	6.59	8.32	11.352	10.55	30	Pass
159	5795	6.65	8.38	11.510	10.61	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	6.75	8.25	11.415	10.57	24	Pass
58	5290	6.91	8.12	11.395	10.57	24	Pass
106	5530	6.55	9.01	12.480	10.96	24	Pass
122	5610	6.51	8.97	12.366	10.92	24	Pass
*138 (U-NII-2C)	5690	3.19	5.21	5.403	7.33	24	Pass
*138 (U-NII-3)	5690	-7.97	-6.23	0.398	-4.00	30	Pass
155	5775	6.32	7.92	10.48	10.20	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	2.87	4.83	4.977	6.97	24	Pass
*50 (U-NII-2A)	5250	3.06	5.63	5.679	7.54	24	Pass
114	5570	6.55	8.82	12.139	10.84	24	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	6.66	8.31	11.411	10.57	24	Pass
40	5200	6.63	8.27	11.317	10.54	24	Pass
48	5240	6.60	8.24	11.239	10.51	24	Pass
52	5260	6.55	8.27	11.233	10.50	24	Pass
60	5300	6.51	8.18	11.054	10.44	24	Pass
64	5320	6.47	8.13	10.937	10.39	24	Pass
100	5500	7.12	8.61	12.413	10.94	24	Pass
120	5600	7.08	8.57	12.300	10.90	24	Pass
140	5700	7.05	8.47	12.101	10.83	24	Pass
*144 (U-NII-2C)	5720	2.26	6.49	6.139	7.88	23.05	Pass
*144 (U-NII-3)	5720	-2.33	0.67	1.7516	2.43	30	Pass
149	5745	6.66	8.19	11.226	10.50	30	Pass
157	5785	6.71	8.27	11.402	10.57	30	Pass
165	5825	6.75	8.31	11.508	10.61	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	6.50	8.02	10.806	10.34	24	Pass
46	5230	6.45	7.98	10.696	10.29	24	Pass
54	5270	6.60	7.91	10.751	10.31	24	Pass
62	5310	6.62	7.91	10.772	10.32	24	Pass
102	5510	6.47	8.92	12.234	10.88	24	Pass
126	5630	6.43	8.89	12.140	10.84	24	Pass
134	5670	6.45	8.85	12.089	10.82	24	Pass
*142 (U-NII-2C)	5710	2.95	4.96	5.106	7.08	24	Pass
*142 (U-NII-3)	5710	-4.89	-2.77	0.8528	-0.69	30	Pass
151	5755	6.52	8.29	11.233	10.50	30	Pass
159	5795	6.54	8.34	11.332	10.54	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	6.68	8.21	11.278	10.52	24	Pass
58	5290	6.63	8.10	11.059	10.44	24	Pass
106	5530	6.43	9.00	12.339	10.91	24	Pass
122	5610	6.45	8.92	12.214	10.87	24	Pass
*138 (U-NII-2C)	5690	3.16	5.19	5.374	7.30	24	Pass
*138 (U-NII-3)	5690	-8.01	-6.27	0.394	-4.04	30	Pass
155	5775	6.28	7.91	10.426	10.18	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	2.84	4.80	4.943	6.94	24	Pass
*50 (U-NII-2A)	5250	3.03	5.60	5.640	7.51	24	Pass
114	5570	6.53	8.79	12.066	10.82	24	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	6.03	7.69	9.884	9.95	24	Pass
40	5200	6.00	7.65	9.802	9.91	24	Pass
48	5240	5.97	7.62	9.735	9.88	24	Pass
52	5260	5.95	7.60	9.690	9.86	24	Pass
60	5300	5.92	7.52	9.558	9.80	24	Pass
64	5320	5.89	7.49	9.492	9.77	24	Pass
100	5500	6.95	8.46	11.969	10.78	24	Pass
120	5600	6.92	8.43	11.887	10.75	24	Pass
140	5700	6.90	8.40	11.816	10.72	24	Pass
*144 (U-NII-2C)	5720	2.12	6.35	5.944	7.74	23.05	Pass
*144 (U-NII-3)	5720	-2.47	0.53	1.696	2.29	30	Pass
149	5745	6.69	8.25	11.350	10.55	30	Pass
157	5785	6.72	8.29	11.444	10.59	30	Pass
165	5825	6.77	8.31	11.530	10.62	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	6.15	7.65	9.942	9.97	24	Pass
46	5230	6.12	7.59	9.834	9.93	24	Pass
54	5270	6.08	7.51	9.691	9.86	24	Pass
62	5310	6.05	7.46	9.599	9.82	24	Pass
102	5510	6.55	8.92	12.317	10.91	24	Pass
126	5630	6.50	8.88	12.194	10.86	24	Pass
134	5670	6.43	8.85	12.069	10.82	24	Pass
*142 (U-NII-2C)	5710	2.97	4.99	5.137	7.11	24	Pass
*142 (U-NII-3)	5710	-4.87	-2.74	0.858	-0.67	30	Pass
151	5755	6.53	8.15	11.029	10.43	30	Pass
159	5795	6.56	8.19	11.121	10.46	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	6.42	7.98	10.666	10.28	24	Pass
58	5290	6.40	7.95	10.603	10.25	24	Pass
106	5530	6.38	8.75	11.844	10.73	24	Pass
122	5610	6.35	8.71	11.745	10.70	24	Pass
*138 (U-NII-2C)	5690	3.10	5.11	5.285	7.23	24	Pass
*138 (U-NII-3)	5690	-8.06	-6.33	0.389	-4.10	30	Pass
155	5775	6.30	7.79	10.278	10.12	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

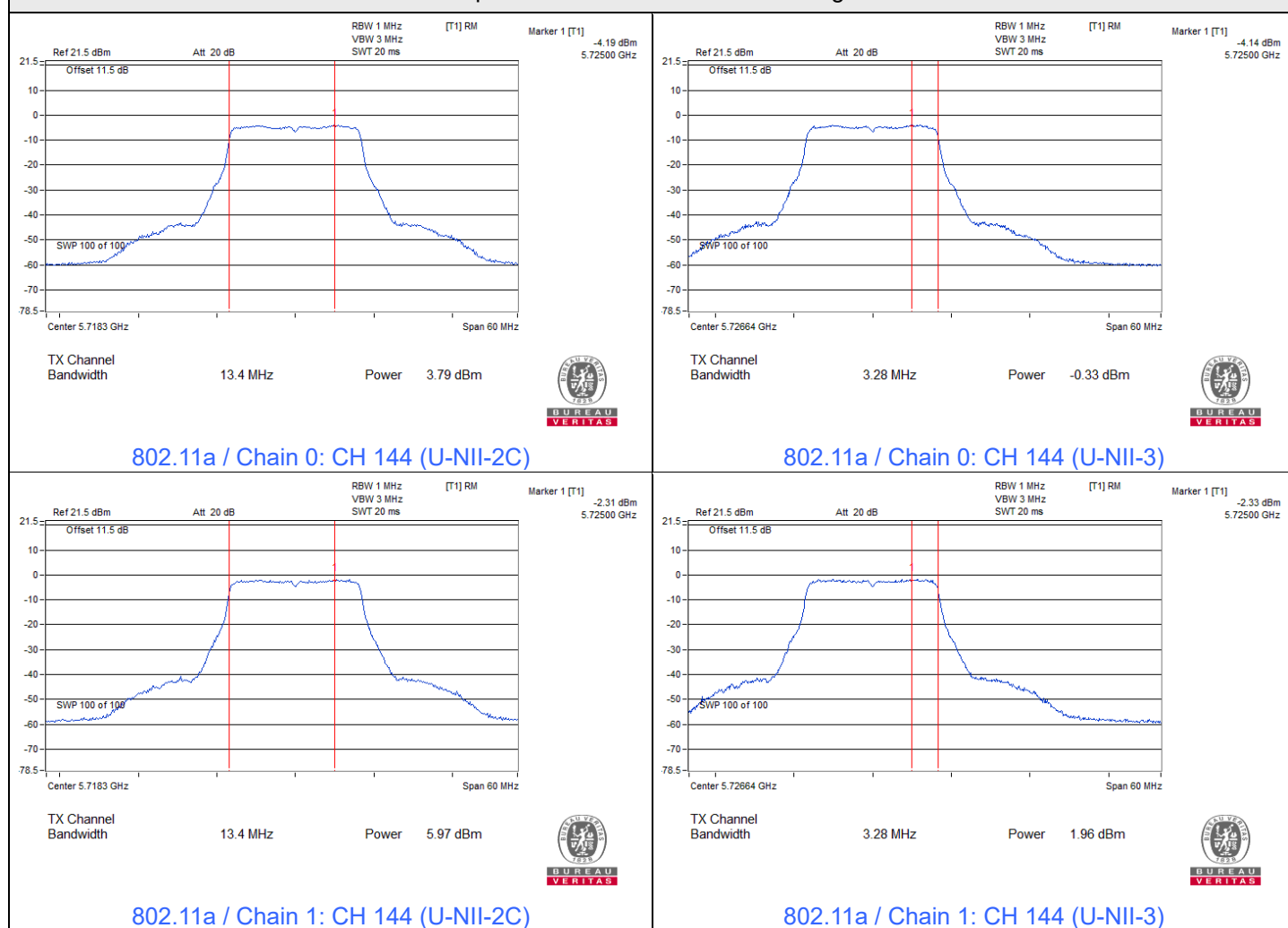
802.11be (EHT160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	2.38	4.15	4.330	6.36	24	Pass
*50 (U-NII-2A)	5250	2.57	4.95	4.933	6.93	24	Pass
114	5570	6.05	8.22	10.665	10.28	24	Pass

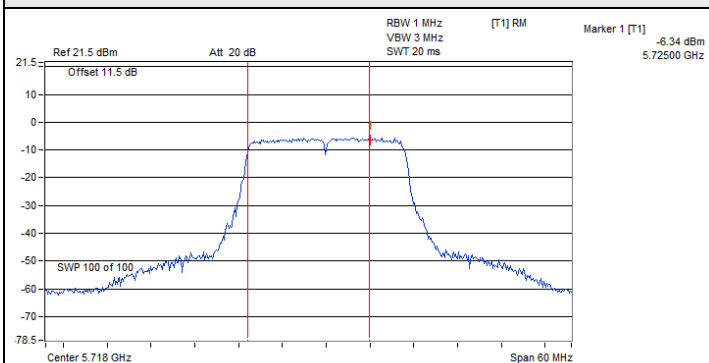
Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.89 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

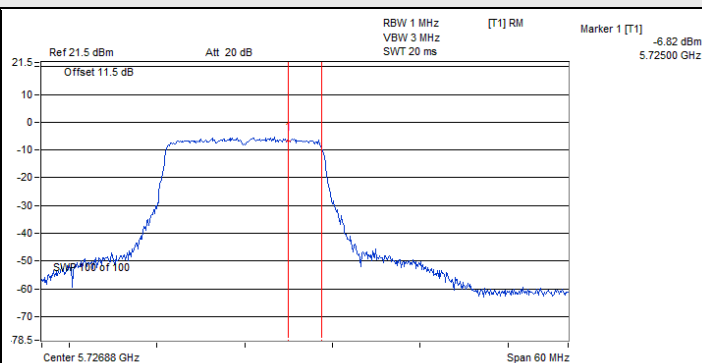
Spectrum Plot for channel straddling



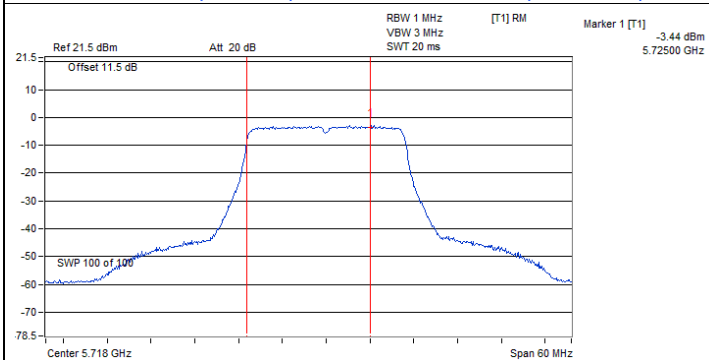
Spectrum Plot for channel straddling



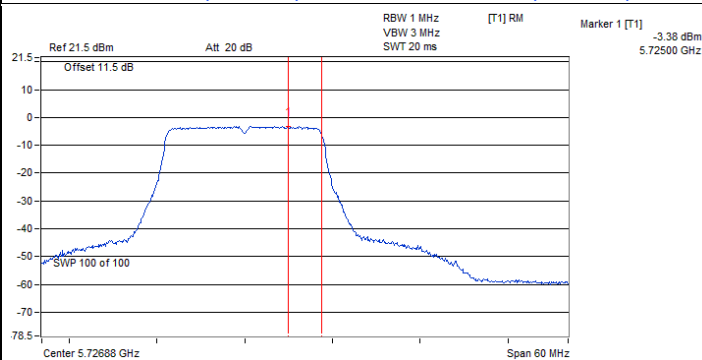
802.11ac (VHT20) / Chain 0: CH 144 (U-NII-2C)



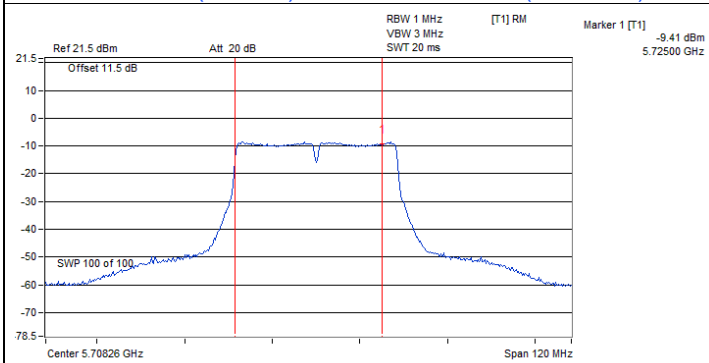
802.11ac (VHT20) / Chain 0: CH 144 (U-NII-3)



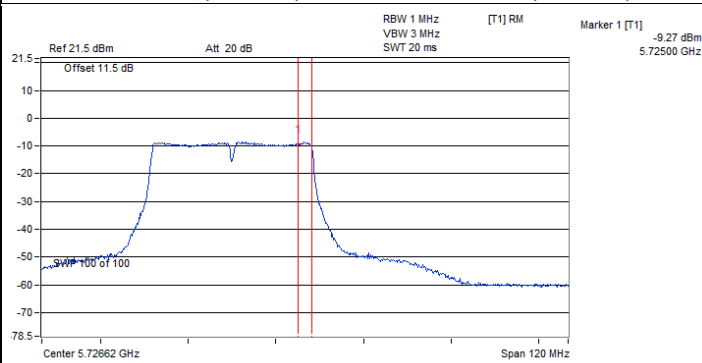
802.11ac (VHT20) / Chain 1: CH 144 (U-NII-2C)



802.11ac (VHT20) / Chain 1: CH 144 (U-NII-3)

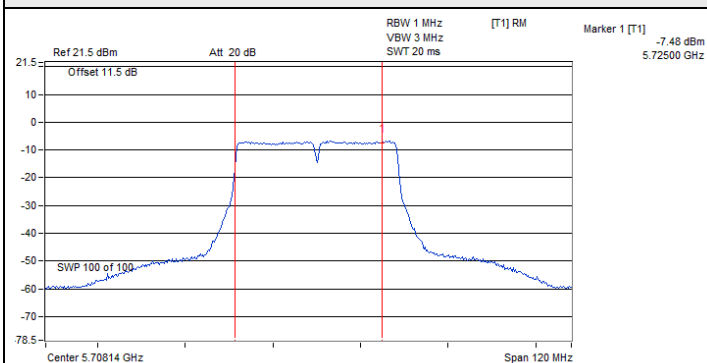


802.11ac (VHT40) / Chain 0: CH 142 (U-NII-2C)

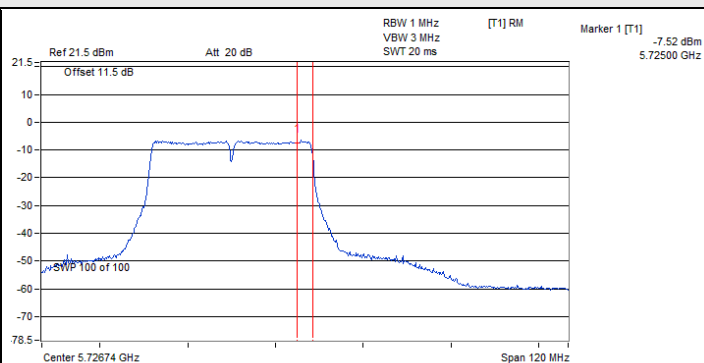


802.11ac (VHT40) / Chain 0: CH 142 (U-NII-3)

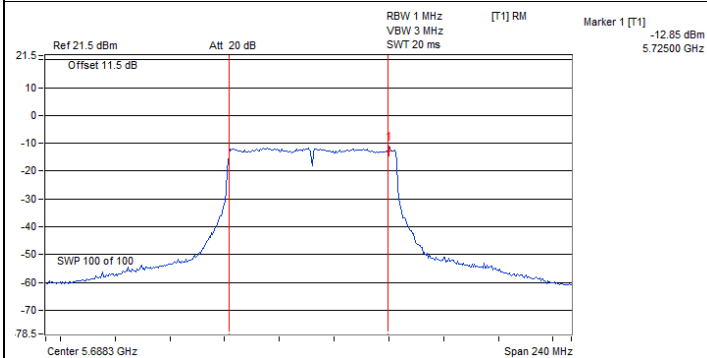
Spectrum Plot for channel straddling



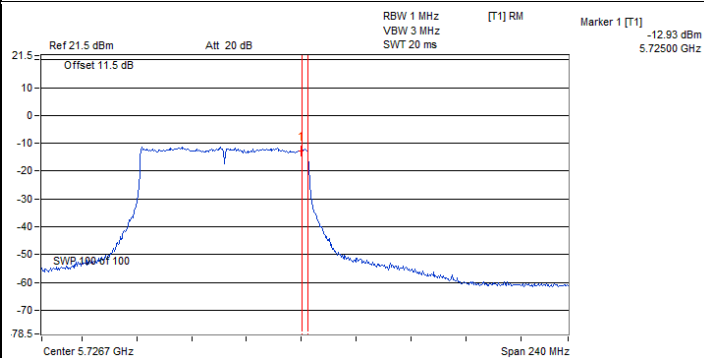
802.11ac (VHT40) / Chain 1: CH 142 (U-NII-2C)



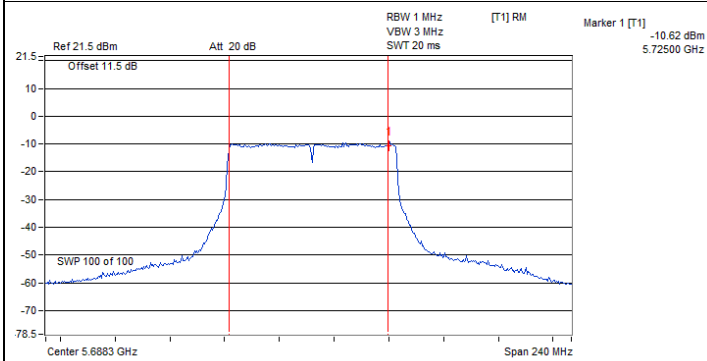
802.11ac (VHT40) / Chain 1: CH 142 (U-NII-3)



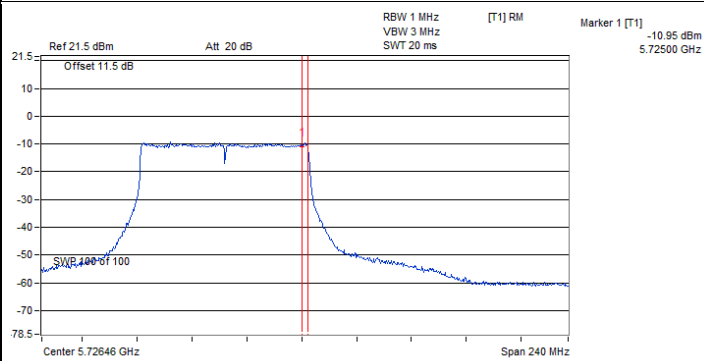
802.11ac (VHT80) / Chain 0: CH 138 (U-NII-2C)



802.11ac (VHT80) / Chain 0: CH 138 (U-NII-3)

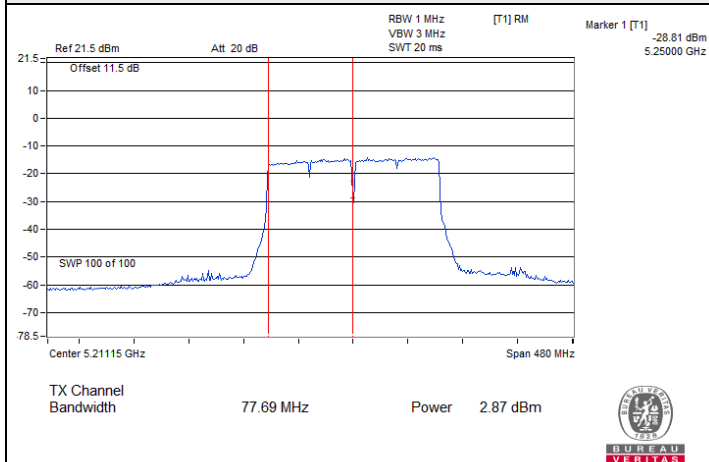


802.11ac (VHT80) / Chain 1: CH 138 (U-NII-2C)

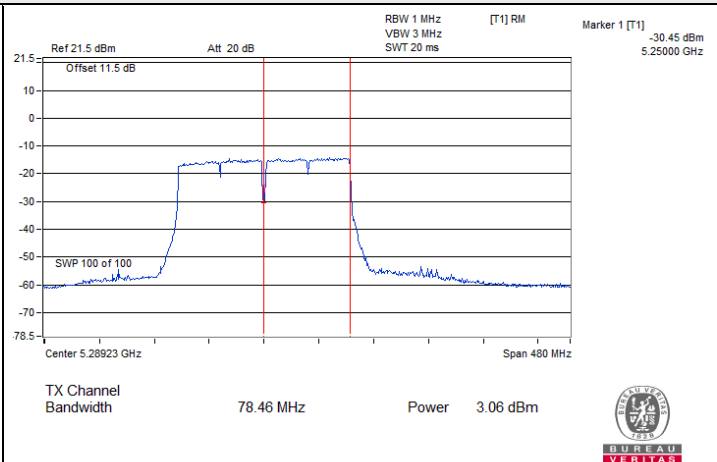


802.11ac (VHT80) / Chain 1: CH 138 (U-NII-3)

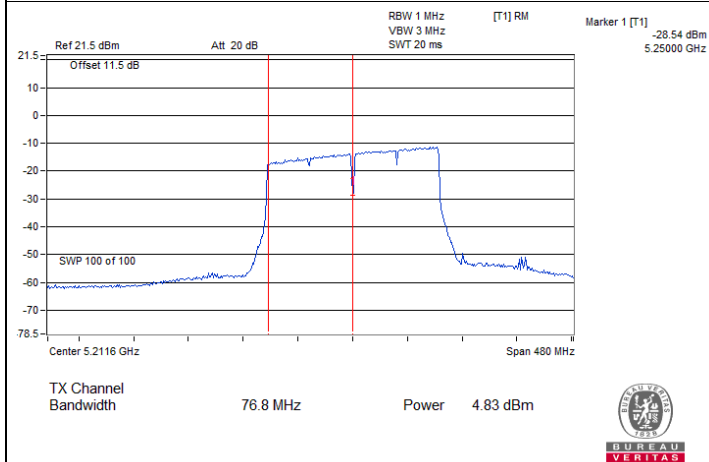
Spectrum Plot for channel straddling



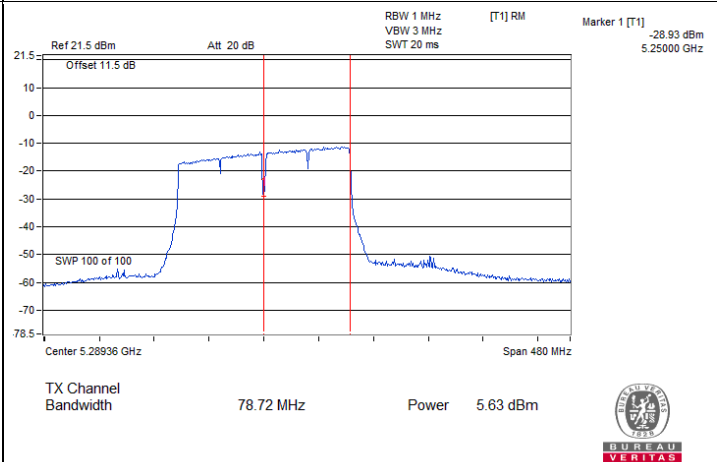
802.11ac (VHT160) / Chain 0: CH 50 (U-NII-1)



802.11ac (VHT160) / Chain 0: CH 50 (U-NII-2A)



802.11ac (VHT160) / Chain 1: CH 50 (U-NII-1)



802.11ac (VHT160) / Chain 1: CH 50 (U-NII-2A)

7.3 Power Spectral Density

Input Power:	12 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Match Tsui
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802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	-5.56	-3.80	-1.58	9.11	Pass
40	5200	-5.57	-3.84	-1.61	9.11	Pass
48	5240	-5.42	-3.71	-1.47	9.11	Pass
52	5260	-5.68	-3.99	-1.74	9.11	Pass
60	5300	-5.22	-3.86	-1.48	9.11	Pass
64	5320	-5.60	-3.76	-1.57	9.11	Pass
100	5500	-5.32	-2.82	-0.88	9.11	Pass
120	5600	-5.30	-2.59	-0.73	9.11	Pass
140	5700	-5.28	-2.77	-0.84	9.11	Pass
144 (U-NII-2C)	5720	-4.97	-2.91	-0.81	9.11	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 7.89 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.89-6) = 9.11$ dBm/MHz.
4. For U-NII-2A, the directional gain is 7.89 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.89-6) = 9.11$ dBm/MHz.
5. For U-NII-2C, the directional gain is 7.89 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.89-6) = 9.11$ dBm/MHz.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	-6.09	-4.47	-2.19	9.11	Pass
40	5200	-6.15	-4.39	-2.17	9.11	Pass
48	5240	-6.20	-4.36	-2.17	9.11	Pass
52	5260	-5.97	-4.36	-2.08	9.11	Pass
60	5300	-5.92	-4.34	-2.05	9.11	Pass
64	5320	-5.96	-4.47	-2.14	9.11	Pass
100	5500	-5.98	-3.61	-1.62	9.11	Pass
120	5600	-6.06	-3.78	-1.76	9.11	Pass
140	5700	-5.92	-3.70	-1.66	9.11	Pass
144 (U-NII-2C)	5720	-5.70	-3.73	-1.59	9.11	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 7.89 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.89-6) = 9.11$ dBm/MHz.
4. For U-NII-2A, the directional gain is 7.89 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.89-6) = 9.11$ dBm/MHz.
5. For U-NII-2C, the directional gain is 7.89 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.89-6) = 9.11$ dBm/MHz.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
38	5190	-9.42	-7.76	-5.50	9.11	Pass
46	5230	-9.49	-7.79	-5.55	9.11	Pass
54	5270	-9.17	-7.89	-5.47	9.11	Pass
62	5310	-9.22	-7.98	-5.55	9.11	Pass
102	5510	-9.91	-7.02	-5.22	9.11	Pass
126	5630	-9.47	-7.44	-5.33	9.11	Pass
134	5670	-9.38	-7.20	-5.14	9.11	Pass
142 (U-NII-2C)	5710	-9.20	-7.33	-5.15	9.11	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 7.89 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.89-6) = 9.11$ dBm/MHz.
4. For U-NII-2A, the directional gain is 7.89 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.89-6) = 9.11$ dBm/MHz.
5. For U-NII-2C, the directional gain is 7.89 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.89-6) = 9.11$ dBm/MHz.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
42	5210	-12.26	-10.69	-8.39	9.11	Pass
58	5290	-12.09	-10.53	-8.23	9.11	Pass
106	5530	-12.41	-10.16	-8.13	9.11	Pass
122	5610	-12.70	-10.09	-8.19	9.11	Pass
138 (U-NII-2C)	5690	-12.32	-10.26	-8.16	9.11	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 7.89 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.89-6) = 9.11$ dBm/MHz.
4. For U-NII-2A, the directional gain is 7.89 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.89-6) = 9.11$ dBm/MHz.
5. For U-NII-2C, the directional gain is 7.89 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.89-6) = 9.11$ dBm/MHz.

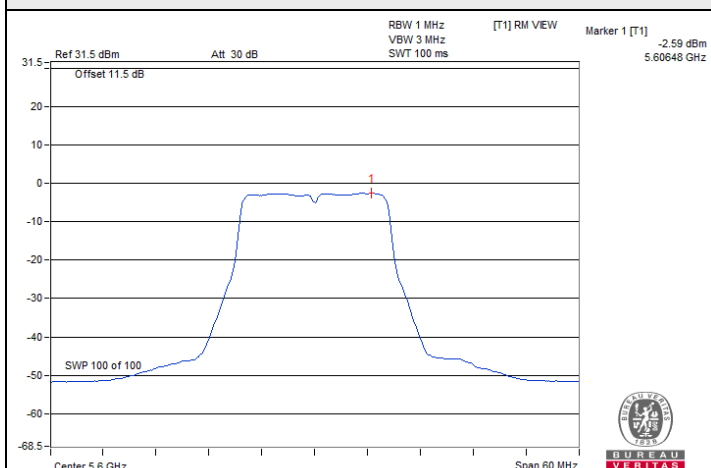
802.11ac (VHT160)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
50 (U-NII-1)	5250	-15.40	-15.11	-12.24	9.11	Pass
50 (U-NII-2A)	5250	-14.72	-12.80	-10.64	9.11	Pass
114	5570	-15.97	-12.28	-10.73	9.11	Pass

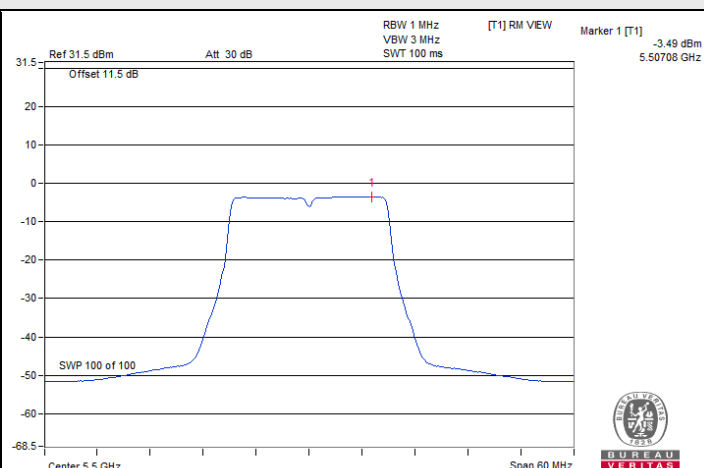
Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 7.89 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.89-6) = 9.11$ dBm/MHz.
- For U-NII-2A, the directional gain is 7.89 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.89-6) = 9.11$ dBm/MHz.
- For U-NII-2C, the directional gain is 7.89 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.89-6) = 9.11$ dBm/MHz.

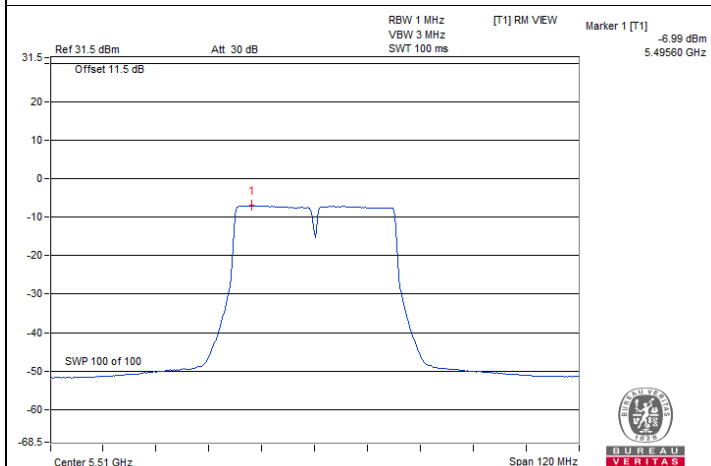
Spectrum Plot of Maximum Value



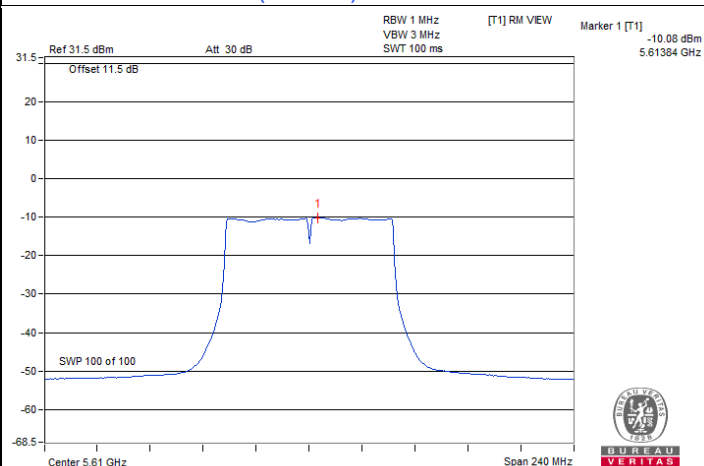
802.11a / Chain 1: CH 120



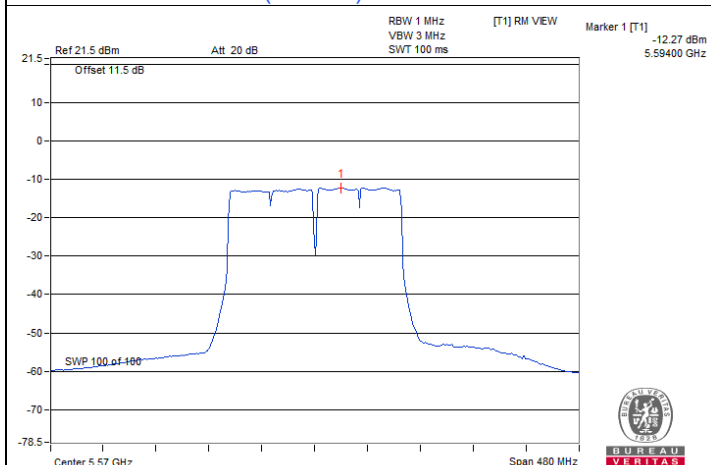
802.11ac (VHT20) / Chain 1: CH 100



802.11ac (VHT40) / Chain 1: CH 102



802.11ac (VHT80) / Chain 1: CH 122



802.11ac (VHT160) / Chain 1: CH 114

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
144 (U-NII-3)	5720	-12.58	-10.80	-8.59	-6.37	28.11	Pass
149	5745	-12.72	-11.17	-8.87	-6.65	28.11	Pass
157	5785	-12.53	-11.20	-8.8	-6.58	28.11	Pass
165	5825	-13.16	-11.59	-9.29	-7.07	28.11	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 7.89 dBi > 6 dBi, so the power density limit shall be reduced to $30-(7.89-6) = 28.11$ dBm/500kHz.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
144 (U-NII-3)	5720	-14.37	-12.15	-10.11	-7.89	28.11	Pass
149	5745	-14.62	-13.05	-10.75	-8.53	28.11	Pass
157	5785	-14.44	-12.90	-10.59	-8.37	28.11	Pass
165	5825	-14.92	-13.27	-11.01	-8.79	28.11	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 7.89 dBi > 6 dBi, so the power density limit shall be reduced to $30-(7.89-6) = 28.11$ dBm/500kHz.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
142 (U-NII-3)	5710	-18.02	-15.80	-13.76	-11.54	28.11	Pass
151	5755	-17.68	-16.14	-13.83	-11.61	28.11	Pass
159	5795	-17.66	-16.35	-13.95	-11.73	28.11	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 7.89 dBi > 6 dBi, so the power density limit shall be reduced to $30-(7.89-6) = 28.11$ dBm/500kHz.

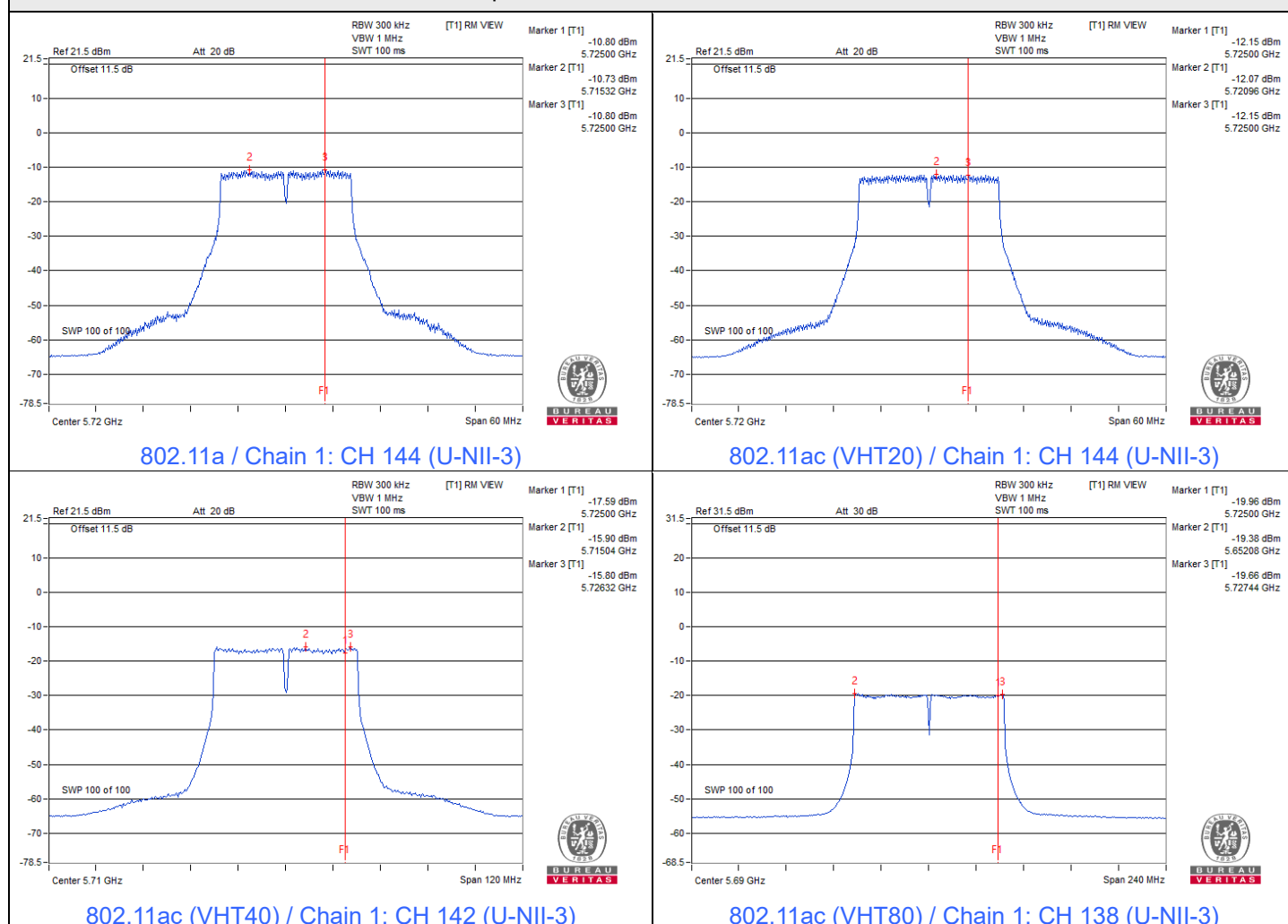
802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
138 (U-NII-3)	5690	-21.68	-19.66	-17.54	-15.32	28.11	Pass
155	5775	-21.65	-20.28	-17.9	-15.68	28.11	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-3, the directional gain is 7.89 dBi > 6 dBi, so the power density limit shall be reduced to 30-(7.89-6) = 28.11 dBm/500kHz.

Spectrum Plot of Maximum Value



7.4 6 dB Bandwidth

Input Power:	12 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Match Tsui
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802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	3.18	3.18	0.5	Pass
149	5745	16.39	16.46	0.5	Pass
157	5785	16.38	16.40	0.5	Pass
165	5825	16.20	16.38	0.5	Pass

802.11ac (VHT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	3.90	3.88	0.5	Pass
149	5745	17.65	17.73	0.5	Pass
157	5785	17.75	17.70	0.5	Pass
165	5825	17.65	17.33	0.5	Pass

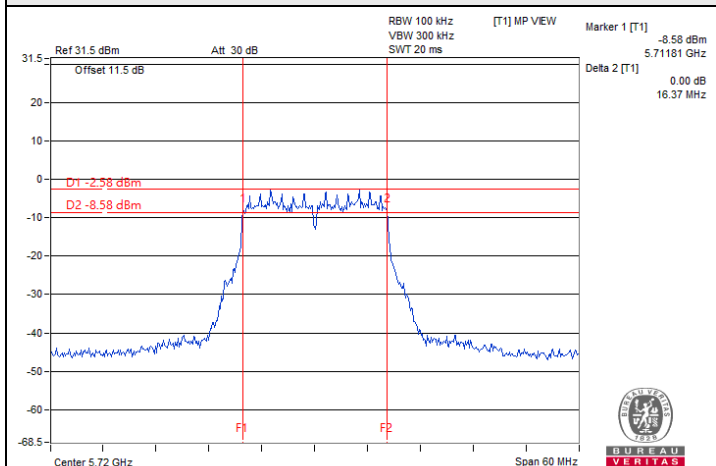
802.11ac (VHT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
142 (U-NII-3)	5710	3.37	3.32	0.5	Pass
151	5755	36.53	36.47	0.5	Pass
159	5795	36.59	36.63	0.5	Pass

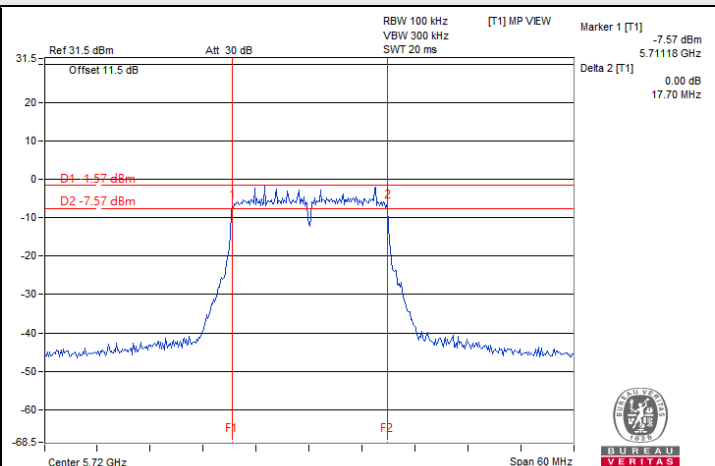
802.11ac (VHT80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
138 (U-NII-3)	5690	3.44	3.47	0.5	Pass
155	5775	76.61	76.44	0.5	Pass

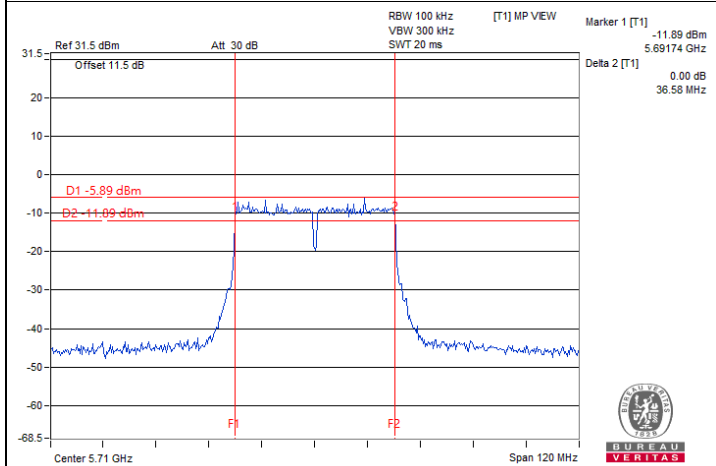
Spectrum Plot of Minimum Value



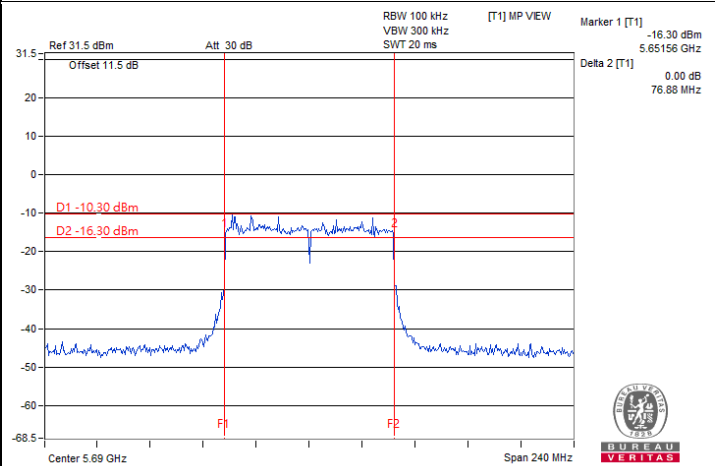
802.11a / Chain 0: CH 144 (U-NII-3)



802.11ac (VHT20) / Chain 1: CH 144 (U-NII-3)



802.11ac (VHT40) / Chain 1: CH 142 (U-NII-3)



802.11ac (VHT80) / Chain 0: CH 138 (U-NII-3)

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

7.5 Occupied Bandwidth

Input Power:	12 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Match Tsui
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.68	16.56
40	5200	16.68	16.68
48	5240	16.68	16.80
52	5260	16.80	16.68
60	5300	16.80	16.68
64	5320	16.68	16.68
100	5500	16.68	16.68
120	5600	16.68	16.68
140	5700	16.68	16.68
144 (U-NII-2C)	5720	13.40	13.40
144 (U-NII-3)	5720	3.28	3.28
149	5745	16.64	16.74
157	5785	16.64	16.64
165	5825	16.73	16.64

802.11ac (VHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.88	17.88
40	5200	17.88	17.76
48	5240	17.88	17.76
52	5260	17.88	17.88
60	5300	17.88	17.76
64	5320	17.88	17.88
100	5500	17.88	17.88
120	5600	17.88	17.88
140	5700	17.88	17.88
144 (U-NII-2C)	5720	14.00	14.00
144 (U-NII-3)	5720	3.76	3.76
149	5745	17.79	17.79
157	5785	17.79	17.79
165	5825	17.79	17.79

802.11ac (VHT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.96	36.96
46	5230	36.72	36.72
54	5270	36.72	36.96
62	5310	36.72	36.96
102	5510	36.72	36.72
126	5630	36.84	36.84
134	5670	36.72	36.96
142 (U-NII-2C)	5710	33.48	33.72
142 (U-NII-3)	5710	3.24	3.48
151	5755	36.92	36.73
159	5795	36.92	36.92

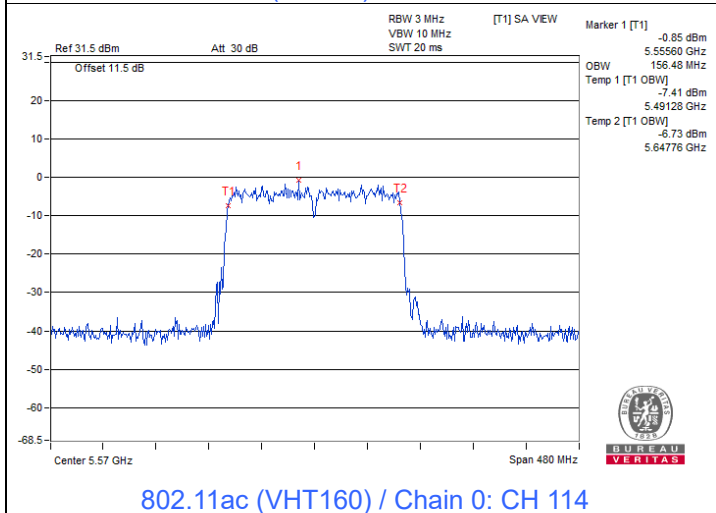
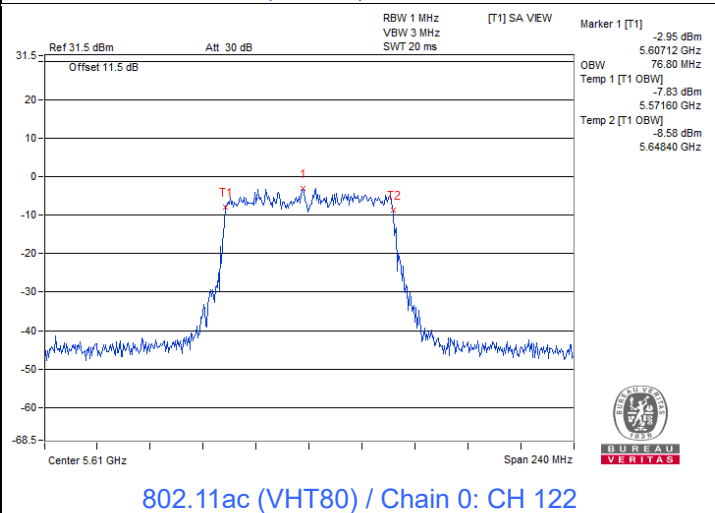
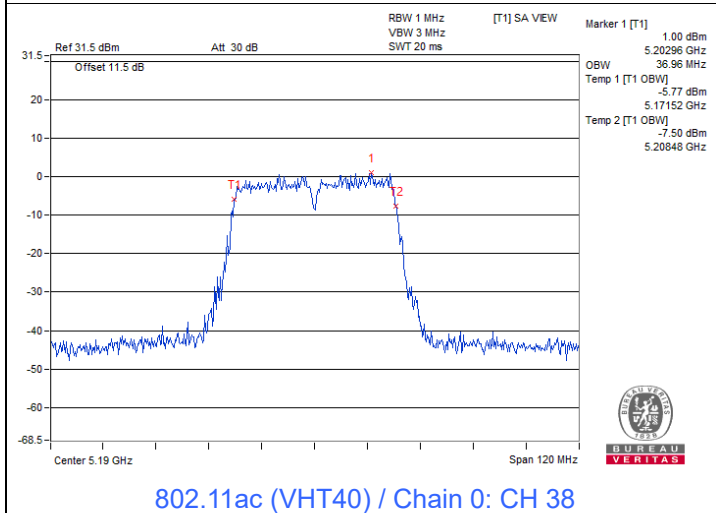
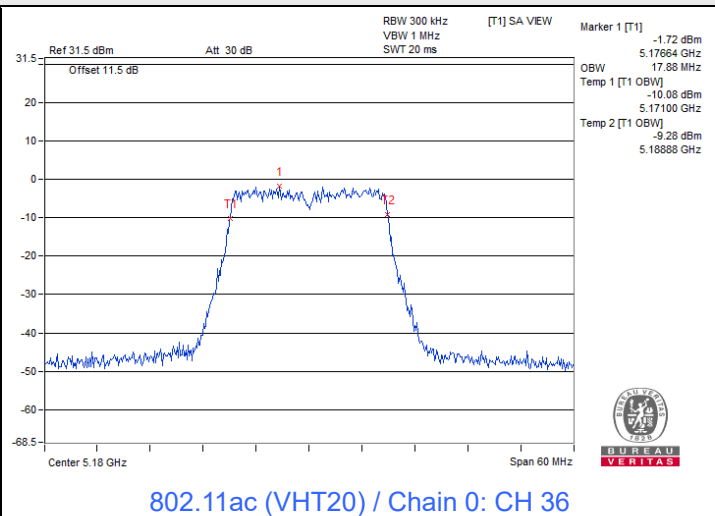
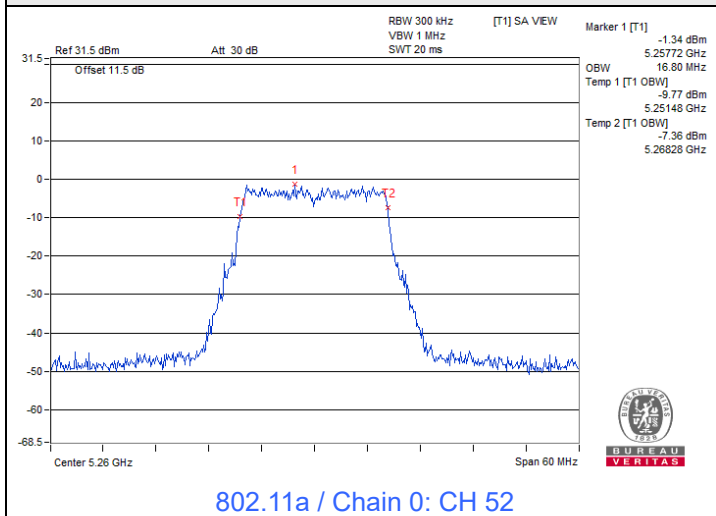
802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	76.32	76.32
58	5290	76.32	76.80
106	5530	76.54	76.16
122	5610	76.80	76.32
138 (U-NII-2C)	5690	73.40	73.40
138 (U-NII-3)	5690	3.40	2.92
155	5775	76.15	76.16

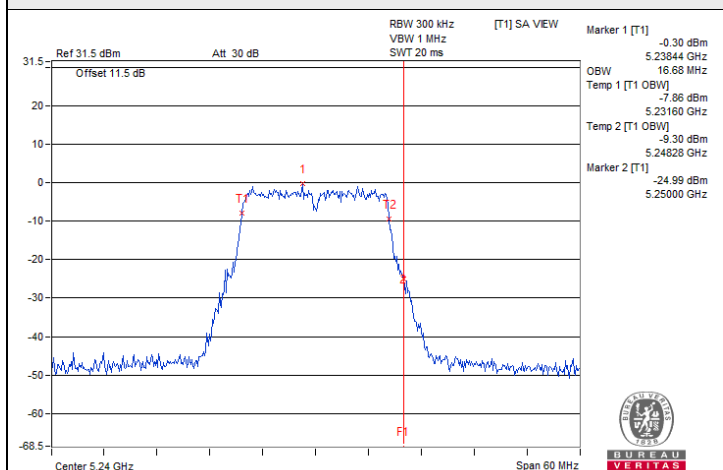
802.11ac (VHT160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	77.69	76.80
50 (U-NII-2A)	5250	78.46	78.72
114	5570	156.48	156.48

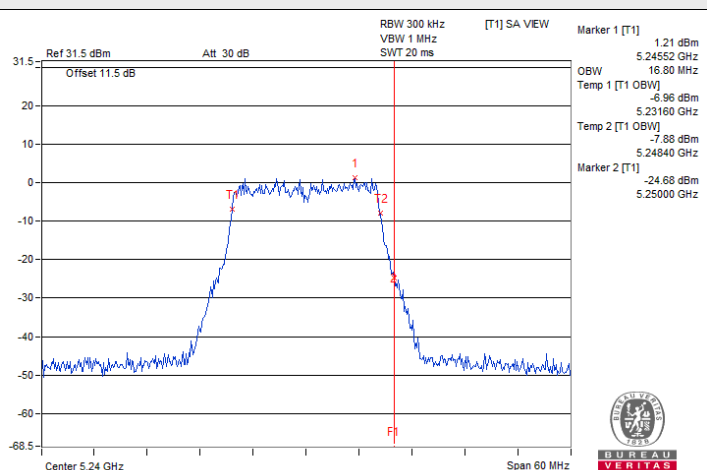
Spectrum Plot of Maximum Value



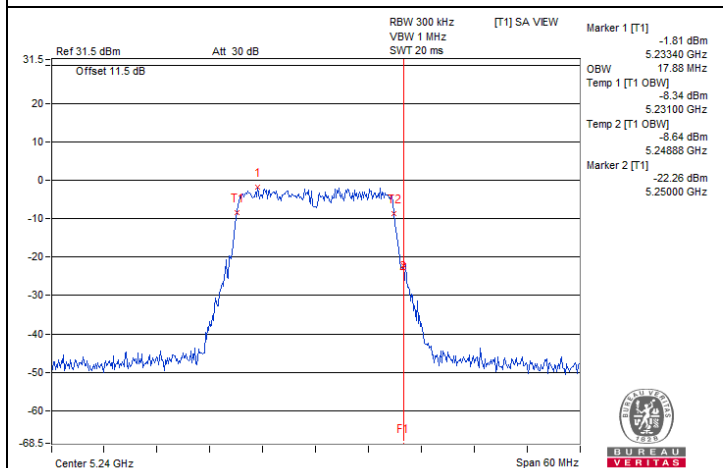
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



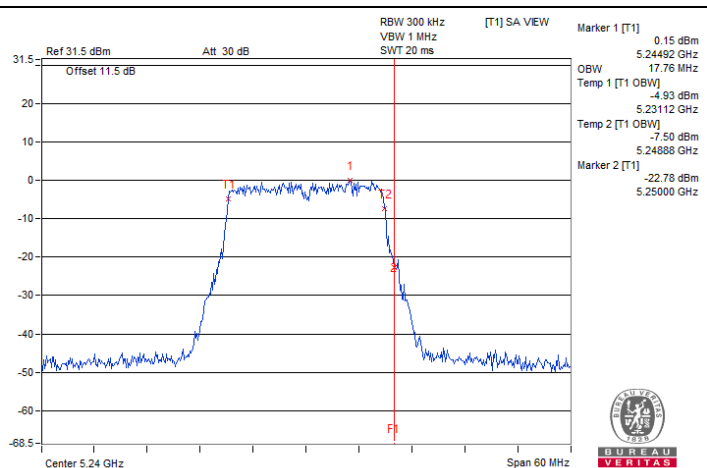
802.11a / Chain 0: CH 48



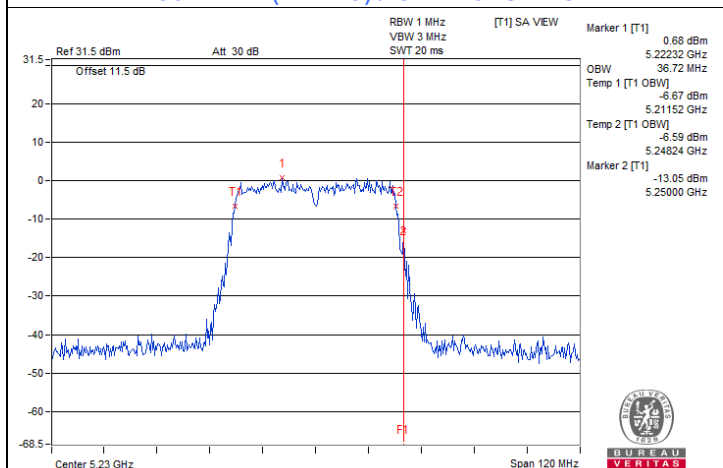
802.11a / Chain 1: CH 48



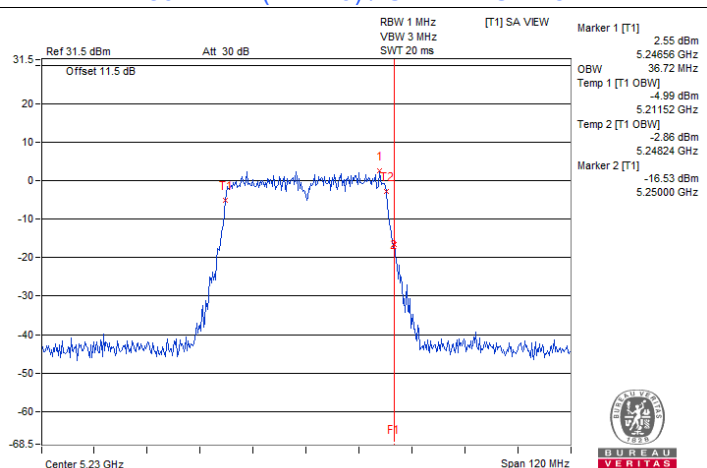
802.11ac (VHT20) / Chain 0: CH 48



802.11ac (VHT20) / Chain 1: CH 48

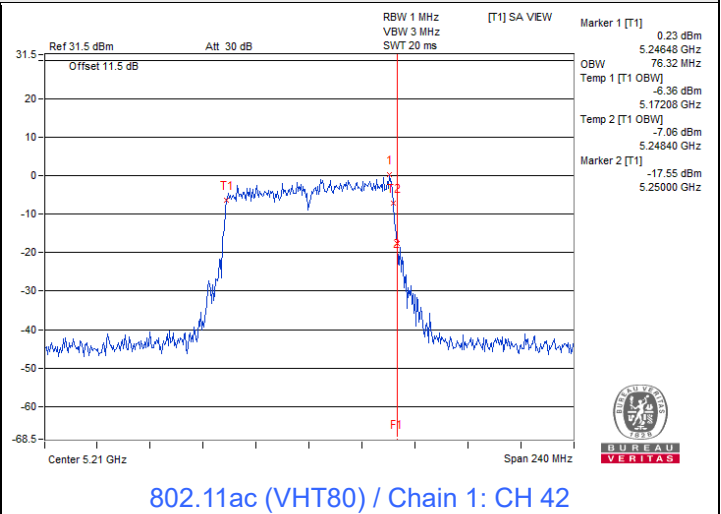
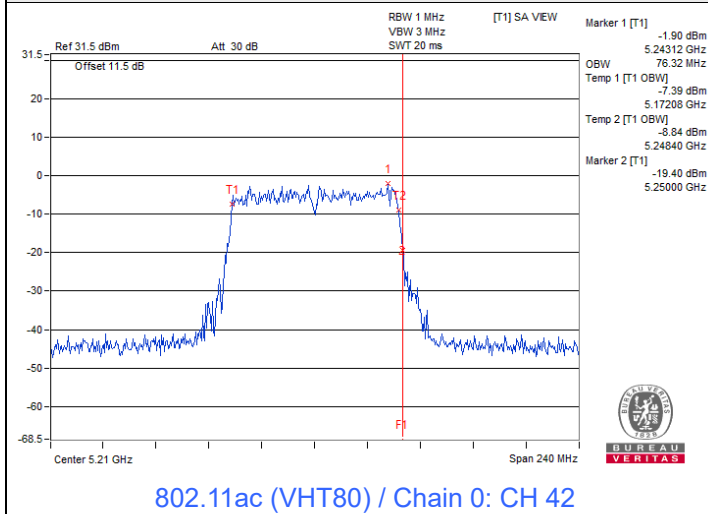


802.11ac (VHT40) / Chain 0: CH 46

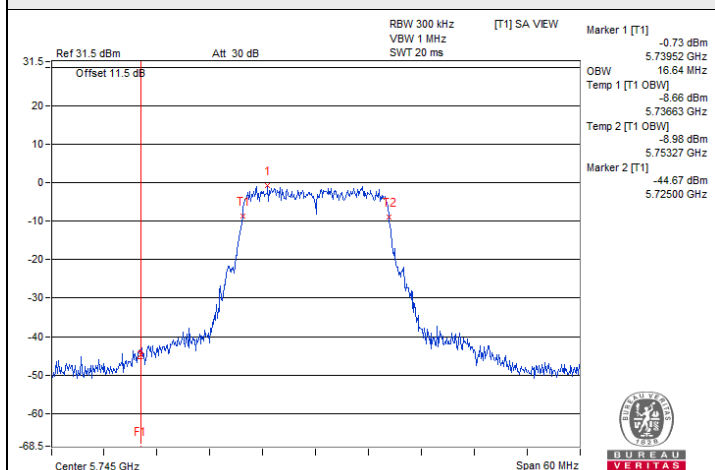


802.11ac (VHT40) / Chain 1: CH 46

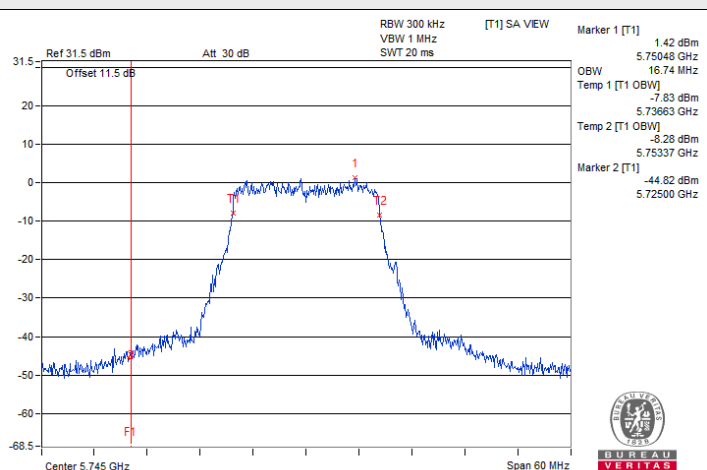
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



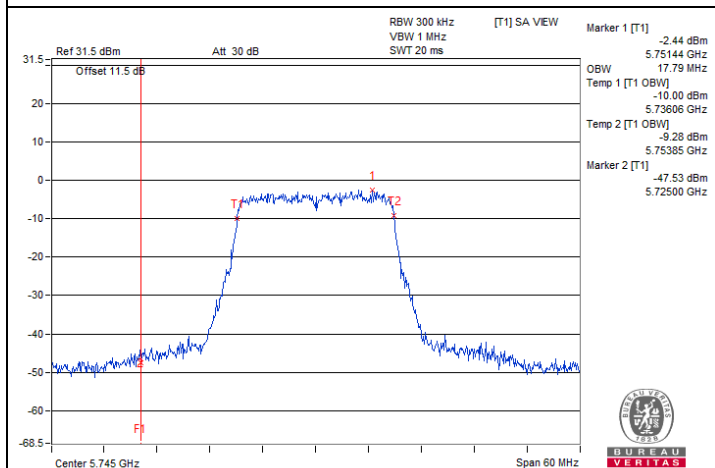
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C)



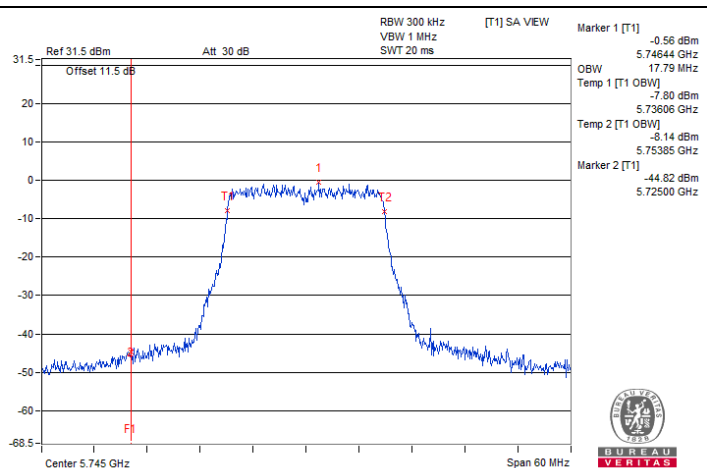
802.11a / Chain 0: CH 149



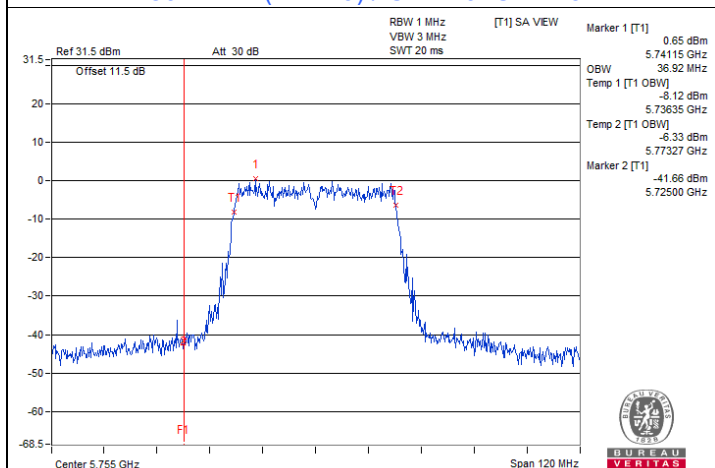
802.11a / Chain 1: CH 149



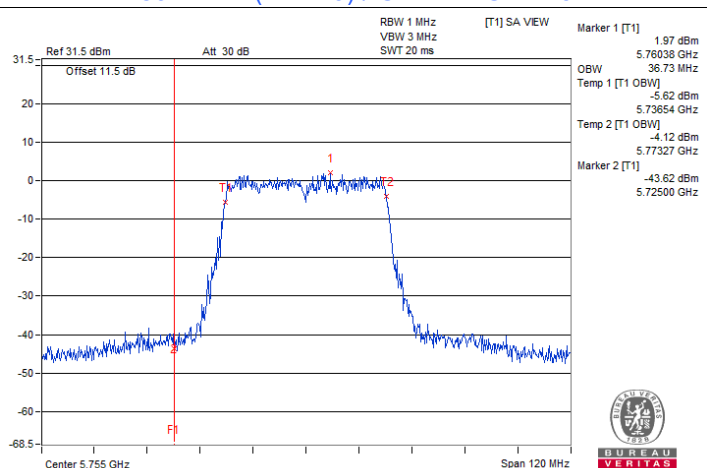
802.11ac (VHT20) / Chain 0: CH 149



802.11ac (VHT20) / Chain 1: CH 149

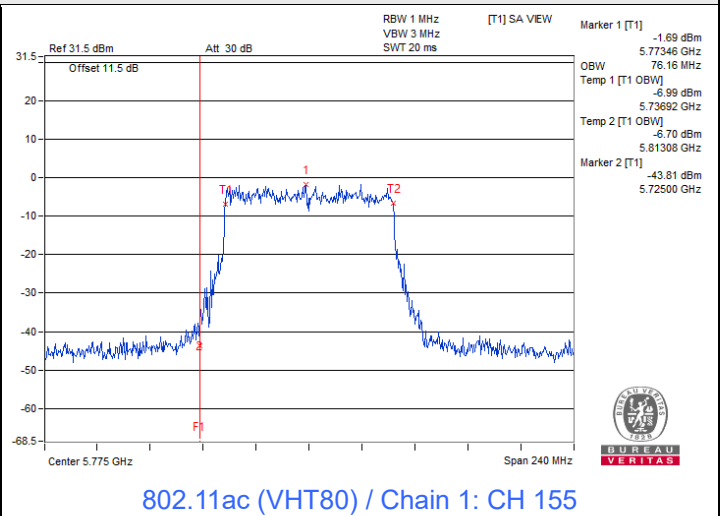
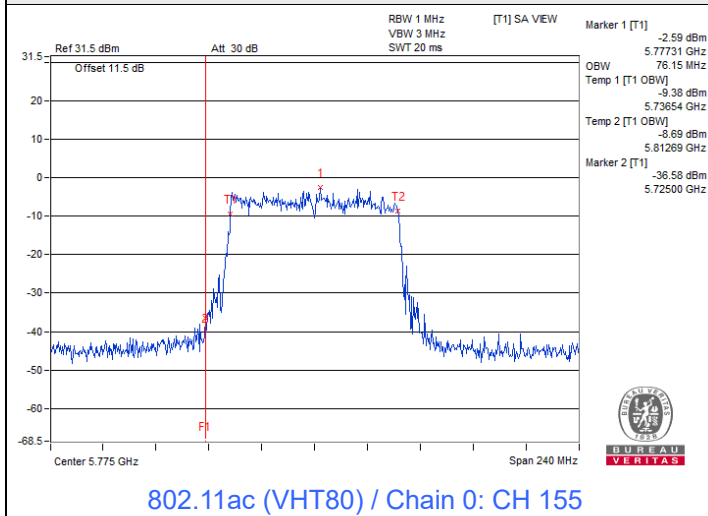


802.11ac (VHT40) / Chain 0: CH 151



802.11ac (VHT40) / Chain 1: CH 151

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



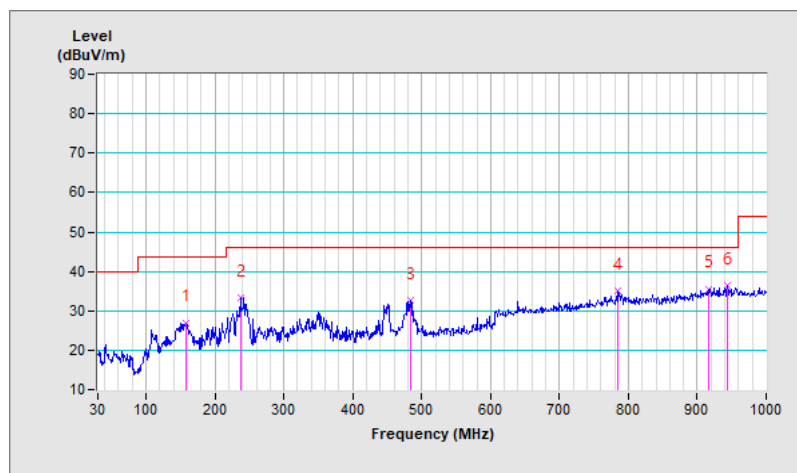
7.6 Unwanted Emissions below 1 GHz

RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 65% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	158.04	27.0 QP	43.5	-16.5	1.51 H	206	39.2	-12.2
2	236.61	33.5 QP	46.0	-12.5	1.51 H	306	47.6	-14.1
3	482.99	32.6 QP	46.0	-13.4	2.00 H	2	39.4	-6.8
4	783.69	35.2 QP	46.0	-10.8	2.00 H	299	35.8	-0.6
5	915.61	35.6 QP	46.0	-10.4	1.01 H	209	34.2	1.4
6	943.74	36.5 QP	46.0	-9.5	1.01 H	336	35.0	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. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

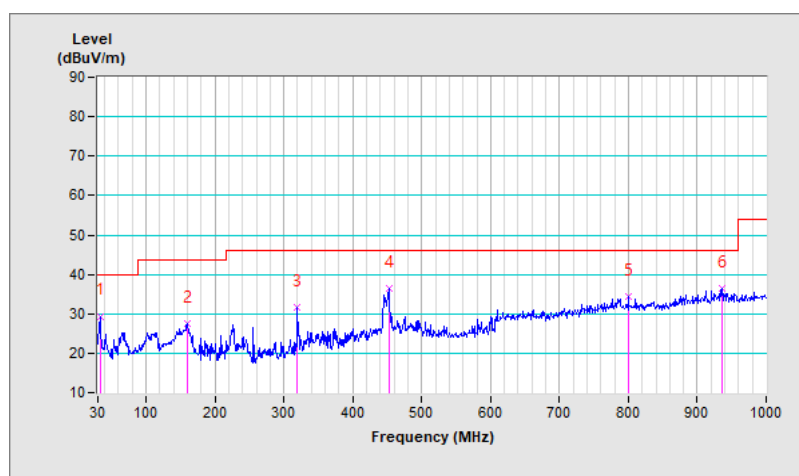


RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 65% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.91	29.4 QP	40.0	-10.6	1.00 V	275	43.3	-13.9
2	159.01	27.5 QP	43.5	-16.0	1.00 V	176	39.7	-12.2
3	320.03	31.6 QP	46.0	-14.4	1.50 V	144	42.5	-10.9
4	452.92	36.4 QP	46.0	-9.6	1.00 V	129	43.7	-7.3
5	800.18	34.5 QP	46.0	-11.5	1.00 V	8	35.1	-0.6
6	935.98	36.6 QP	46.0	-9.4	1.00 V	70	34.9	1.7

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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



7.7 Unwanted Emissions above 1 GHz

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.4 PK	74.0	-21.6	1.50 H	110	42.2	10.2
2	5150.00	42.7 AV	54.0	-11.3	1.50 H	110	32.5	10.2
3	*5180.00	102.1 PK			1.50 H	110	62.4	39.7
4	*5180.00	95.2 AV			1.50 H	110	55.5	39.7
5	#10360.00	57.6 PK	68.2	-10.6	1.43 H	255	41.7	15.9
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	52.6 PK	74.0	-21.4	2.32 V	214	42.4	10.2
2	5150.00	42.9 AV	54.0	-11.1	2.32 V	214	32.7	10.2
3	*5180.00	103.2 PK			2.32 V	214	63.5	39.7
4	*5180.00	96.6 AV			2.32 V	214	56.9	39.7
5	#10360.00	57.8 PK	68.2	-10.4	1.62 V	331	41.9	15.9

Remarks:

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

RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	102.4 PK			2.66 H	111	62.8	39.6
2	*5200.00	95.5 AV			2.66 H	111	55.9	39.6
3	#10400.00	57.6 PK	68.2	-10.6	1.40 H	244	41.8	15.8
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	*5200.00	104.9 PK			2.27 V	216	65.3	39.6
2	*5200.00	97.2 AV			2.27 V	216	57.6	39.6
3	#10400.00	57.9 PK	68.2	-10.3	1.64 V	333	42.1	15.8

Remarks:

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

RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	103.4 PK			1.04 H	123	64.0	39.4
2	*5240.00	95.4 AV			1.04 H	123	56.0	39.4
3	5350.00	52.6 PK	74.0	-21.4	1.04 H	123	43.2	9.4
4	5350.00	42.7 AV	54.0	-11.3	1.04 H	123	33.3	9.4
5	#10480.00	58.1 PK	68.2	-10.1	1.36 H	242	42.0	16.1
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	*5240.00	103.6 PK			2.21 V	216	64.2	39.4
2	*5240.00	96.9 AV			2.21 V	216	57.5	39.4
3	5350.00	52.8 PK	74.0	-21.2	2.21 V	216	43.4	9.4
4	5350.00	42.9 AV	54.0	-11.1	2.21 V	216	33.5	9.4
5	#10480.00	58.4 PK	68.2	-9.8	1.66 V	310	42.3	16.1

Remarks:

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

RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.2 PK	74.0	-21.8	1.46 H	122	42.0	10.2
2	5150.00	42.3 AV	54.0	-11.7	1.46 H	122	32.1	10.2
3	*5260.00	103.0 PK			1.46 H	122	63.7	39.3
4	*5260.00	94.8 AV			1.46 H	122	55.5	39.3
5	#10520.00	58.3 PK	68.2	-9.9	1.30 H	240	42.1	16.2
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	5150.00	52.4 PK	74.0	-21.6	2.30 V	219	42.2	10.2
2	5150.00	42.6 AV	54.0	-11.4	2.30 V	219	32.4	10.2
3	*5260.00	103.6 PK			2.30 V	219	64.3	39.3
4	*5260.00	96.9 AV			2.30 V	219	57.6	39.3
5	#10520.00	58.6 PK	68.2	-9.6	1.68 V	315	42.4	16.2

Remarks:

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

RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	103.1 PK			1.51 H	122	63.7	39.4
2	*5300.00	95.7 AV			1.51 H	122	56.3	39.4
3	10600.00	58.2 PK	74.0	-15.8	1.28 H	241	42.0	16.2
4	10600.00	47.3 AV	54.0	-6.7	1.28 H	241	31.1	16.2
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	103.9 PK			2.23 V	213	64.5	39.4
2	*5300.00	96.8 AV			2.23 V	213	57.4	39.4
3	10600.00	58.4 PK	74.0	-15.6	1.72 V	320	42.2	16.2
4	10600.00	47.6 AV	54.0	-6.4	1.72 V	320	31.4	16.2

Remarks:

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

RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	103.1 PK			1.50 H	124	63.8	39.3
2	*5320.00	95.8 AV			1.50 H	124	56.5	39.3
3	5350.00	52.3 PK	74.0	-21.7	1.50 H	124	42.9	9.4
4	5350.00	41.5 AV	54.0	-12.5	1.50 H	124	32.1	9.4
5	10640.00	58.5 PK	74.0	-15.5	1.31 H	245	42.1	16.4
6	10640.00	47.5 AV	54.0	-6.5	1.31 H	245	31.1	16.4
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	104.0 PK			2.23 V	213	64.7	39.3
2	*5320.00	97.1 AV			2.23 V	213	57.8	39.3
3	5350.00	52.5 PK	74.0	-21.5	2.23 V	213	43.1	9.4
4	5350.00	41.7 AV	54.0	-12.3	2.23 V	213	32.3	9.4
5	10640.00	58.7 PK	74.0	-15.3	1.68 V	310	42.3	16.4
6	10640.00	47.7 AV	54.0	-6.3	1.68 V	310	31.3	16.4

Remarks:

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

RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	25 °C, 67% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	53.6 PK	74.0	-20.4	1.96 H	266	43.2	10.4
2	5460.00	43.2 AV	54.0	-10.8	1.96 H	266	32.8	10.4
3	#5470.00	53.9 PK	68.2	-14.3	1.96 H	266	43.5	10.4
4	*5500.00	103.6 PK			1.96 H	266	63.5	40.1
5	*5500.00	96.4 AV			1.96 H	266	56.3	40.1
6	11000.00	59.5 PK	74.0	-14.5	1.33 H	246	43.1	16.4
7	11000.00	49.4 AV	54.0	-4.6	1.33 H	246	33.0	16.4
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	5460.00	54.1 PK	74.0	-19.9	1.54 V	203	43.7	10.4
2	5460.00	43.3 AV	54.0	-10.7	1.54 V	203	32.9	10.4
3	#5470.00	54.2 PK	68.2	-14.0	1.54 V	203	43.8	10.4
4	*5500.00	105.6 PK			1.54 V	203	65.5	40.1
5	*5500.00	98.4 AV			1.54 V	203	58.3	40.1
6	11000.00	59.8 PK	74.0	-14.2	1.65 V	308	43.4	16.4
7	11000.00	49.7 AV	54.0	-4.3	1.65 V	308	33.3	16.4

Remarks:

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

RF Mode	802.11a	Channel	CH 120 : 5600 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5600.00	101.0 PK			1.43 H	266	61.3	39.7
2	*5600.00	94.1 AV			1.43 H	266	54.4	39.7
3	11200.00	59.1 PK	74.0	-14.9	1.36 H	220	42.3	16.8
4	11200.00	47.8 AV	54.0	-6.2	1.36 H	220	31.0	16.8
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	*5600.00	105.0 PK			1.61 V	224	65.3	39.7
2	*5600.00	97.8 AV			1.61 V	224	58.1	39.7
3	11200.00	59.3 PK	74.0	-14.7	1.72 V	322	42.5	16.8
4	11200.00	48.1 AV	54.0	-5.9	1.72 V	322	31.3	16.8

Remarks:

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

RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	100.9 PK			1.43 H	265	60.9	40.0
2	*5700.00	94.0 AV			1.43 H	265	54.0	40.0
3	#5725.00	53.8 PK	68.2	-14.4	1.43 H	265	43.6	10.2
4	11400.00	59.1 PK	74.0	-14.9	1.34 H	250	42.3	16.8
5	11400.00	48.0 AV	54.0	-6.0	1.34 H	250	31.2	16.8
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	*5700.00	104.5 PK			1.55 V	222	64.5	40.0
2	*5700.00	97.4 AV			1.55 V	222	57.4	40.0
3	#5725.00	54.1 PK	68.2	-14.1	1.55 V	222	43.9	10.2
4	11400.00	59.4 PK	74.0	-14.6	1.79 V	325	42.6	16.8
5	11400.00	48.2 AV	54.0	-5.8	1.79 V	325	31.4	16.8

Remarks:

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

RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	52.4 PK	68.2	-15.8	1.42 H	267	42.8	9.6
2	*5720.00	101.6 PK			1.42 H	267	61.4	40.2
3	*5720.00	94.8 AV			1.42 H	267	54.6	40.2
4	#5850.00	53.0 PK	68.2	-15.2	1.42 H	267	42.6	10.4
5	11440.00	59.1 PK	74.0	-14.9	1.30 H	209	42.3	16.8
6	11440.00	48.3 AV	54.0	-5.7	1.30 H	209	31.5	16.8
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	#5470.00	52.7 PK	68.2	-15.5	2.01 V	223	43.1	9.6
2	*5720.00	104.7 PK			2.01 V	223	64.5	40.2
3	*5720.00	98.0 AV			2.01 V	223	57.8	40.2
4	#5850.00	53.2 PK	68.2	-15.0	2.01 V	223	42.8	10.4
5	11440.00	59.3 PK	74.0	-14.7	1.88 V	327	42.5	16.8
6	11440.00	48.5 AV	54.0	-5.5	1.88 V	327	31.7	16.8

Remarks:

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

RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5625.60	56.7 PK	68.2	-11.5	1.40 H	265	46.6	10.1
2	*5745.00	102.0 PK			1.40 H	265	61.7	40.3
3	*5745.00	94.6 AV			1.40 H	265	54.3	40.3
4	#5956.00	57.5 PK	68.2	-10.7	1.40 H	265	47.3	10.2
5	11490.00	56.8 PK	74.0	-17.2	1.35 H	207	39.9	16.9
6	11490.00	50.5 AV	54.0	-3.5	1.35 H	207	33.6	16.9
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	#5633.60	57.4 PK	68.2	-10.8	2.15 V	227	47.3	10.1
2	*5745.00	107.0 PK			2.15 V	227	66.7	40.3
3	*5745.00	99.9 AV			2.15 V	227	59.6	40.3
4	#5988.00	57.1 PK	68.2	-11.1	2.15 V	227	46.9	10.2
5	11490.00	61.1 PK	74.0	-12.9	1.86 V	323	44.2	16.9
6	11490.00	50.8 AV	54.0	-3.2	1.86 V	323	33.9	16.9

Remarks:

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

RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5621.60	56.6 PK	68.2	-11.6	1.40 H	264	46.5	10.1
2	*5785.00	103.1 PK			1.40 H	264	62.5	40.6
3	*5785.00	95.5 AV			1.40 H	264	54.9	40.6
4	#5974.80	56.6 PK	68.2	-11.6	1.40 H	264	46.4	10.2
5	11570.00	61.1 PK	74.0	-12.9	1.33 H	207	43.8	17.3
6	11570.00	50.5 AV	54.0	-3.5	1.33 H	207	33.2	17.3
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	#5605.20	56.2 PK	68.2	-12.0	2.16 V	229	46.1	10.1
2	*5785.00	107.4 PK			2.16 V	229	66.8	40.6
3	*5785.00	100.5 AV			2.16 V	229	59.9	40.6
4	#5952.40	57.6 PK	68.2	-10.6	2.16 V	229	47.3	10.3
5	11570.00	61.4 PK	74.0	-12.6	1.90 V	325	44.1	17.3
6	11570.00	50.7 AV	54.0	-3.3	1.90 V	325	33.4	17.3

Remarks:

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

RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5617.60	56.2 PK	68.2	-12.0	1.38 H	265	46.1	10.1
2	*5825.00	102.0 PK			1.38 H	265	61.5	40.5
3	*5825.00	94.7 AV			1.38 H	265	54.2	40.5
4	#5941.60	57.5 PK	68.2	-10.7	1.38 H	265	47.3	10.2
5	11650.00	65.3 PK	74.0	-8.7	1.29 H	210	48.1	17.2
6	11650.00	52.7 AV	54.0	-1.3	1.29 H	210	35.5	17.2
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	#5613.60	57.0 PK	68.2	-11.2	2.18 V	229	46.9	10.1
2	*5825.00	106.6 PK			2.18 V	229	66.1	40.5
3	*5825.00	99.6 AV			2.18 V	229	59.1	40.5
4	#5964.80	56.7 PK	68.2	-11.5	2.18 V	229	46.5	10.2
5	11650.00	65.6 PK	74.0	-8.4	1.95 V	318	48.4	17.2
6	11650.00	53.0 AV	54.0	-1.0	1.95 V	318	35.8	17.2

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	53.2 PK	74.0	-20.8	1.50 H	110	43.0	10.2
2	5150.00	42.7 AV	54.0	-11.3	1.50 H	110	32.5	10.2
3	*5180.00	101.4 PK			1.50 H	110	61.7	39.7
4	*5180.00	94.1 AV			1.50 H	110	54.4	39.7
5	#10360.00	57.6 PK	68.2	-10.6	1.29 H	230	41.7	15.9
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	53.4 PK	74.0	-20.6	2.30 V	214	43.2	10.2
2	5150.00	43.0 AV	54.0	-11.0	2.30 V	214	32.8	10.2
3	*5180.00	102.4 PK			2.30 V	214	62.7	39.7
4	*5180.00	95.5 AV			2.30 V	214	55.8	39.7
5	#10360.00	57.9 PK	68.2	-10.3	1.61 V	323	42.0	15.9

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	101.6 PK			2.67 H	111	62.0	39.6
2	*5200.00	94.4 AV			2.67 H	111	54.8	39.6
3	#10400.00	57.8 PK	68.2	-10.4	1.26 H	231	42.0	15.8
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	*5200.00	103.2 PK			2.16 V	217	63.6	39.6
2	*5200.00	96.0 AV			2.16 V	217	56.4	39.6
3	#10400.00	58.0 PK	68.2	-10.2	1.58 V	320	42.2	15.8

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	101.4 PK			1.50 H	123	62.0	39.4
2	*5240.00	94.4 AV			1.50 H	123	55.0	39.4
3	5350.00	51.9 PK	74.0	-22.1	1.50 H	123	42.5	9.4
4	5350.00	41.5 AV	54.0	-12.5	1.50 H	123	32.1	9.4
5	#10480.00	58.0 PK	68.2	-10.2	1.24 H	228	41.9	16.1
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	*5240.00	102.8 PK			1.60 V	215	63.4	39.4
2	*5240.00	95.7 AV			1.60 V	215	56.3	39.4
3	5350.00	52.1 PK	74.0	-21.9	1.60 V	215	42.7	9.4
4	5350.00	41.7 AV	54.0	-12.3	1.60 V	215	32.3	9.4
5	#10480.00	58.4 PK	68.2	-9.8	1.62 V	324	42.3	16.1

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.3 PK	74.0	-21.7	1.46 H	123	42.1	10.2
2	5150.00	42.4 AV	54.0	-11.6	1.46 H	123	32.2	10.2
3	*5260.00	101.5 PK			1.46 H	123	62.2	39.3
4	*5260.00	94.7 AV			1.46 H	123	55.4	39.3
5	#10520.00	58.3 PK	68.2	-9.9	1.28 H	244	42.1	16.2
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	5150.00	52.5 PK	74.0	-21.5	2.27 V	219	42.3	10.2
2	5150.00	42.6 AV	54.0	-11.4	2.27 V	219	32.4	10.2
3	*5260.00	103.5 PK			2.27 V	219	64.2	39.3
4	*5260.00	96.5 AV			2.27 V	219	57.2	39.3
5	#10520.00	58.5 PK	68.2	-9.7	1.65 V	310	42.3	16.2

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	102.5 PK			1.06 H	121	63.1	39.4
2	*5300.00	95.4 AV			1.06 H	121	56.0	39.4
3	10600.00	58.3 PK	74.0	-15.7	1.30 H	250	42.1	16.2
4	10600.00	47.2 AV	54.0	-6.8	1.30 H	250	31.0	16.2
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	104.3 PK			2.12 V	214	64.9	39.4
2	*5300.00	97.0 AV			2.12 V	214	57.6	39.4
3	10600.00	58.5 PK	74.0	-15.5	1.74 V	321	42.3	16.2
4	10600.00	47.5 AV	54.0	-6.5	1.74 V	321	31.3	16.2

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	102.5 PK			1.49 H	123	63.2	39.3
2	*5320.00	95.7 AV			1.49 H	123	56.4	39.3
3	5350.00	51.8 PK	74.0	-22.2	1.49 H	123	42.4	9.4
4	5350.00	41.9 AV	54.0	-12.1	1.49 H	123	32.5	9.4
5	10640.00	58.7 PK	74.0	-15.3	1.30 H	242	42.3	16.4
6	10640.00	47.4 AV	54.0	-6.6	1.30 H	242	31.0	16.4
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	103.7 PK			2.20 V	211	64.4	39.3
2	*5320.00	96.6 AV			2.20 V	211	57.3	39.3
3	5350.00	52.0 PK	74.0	-22.0	2.20 V	211	42.6	9.4
4	5350.00	42.1 AV	54.0	-11.9	2.20 V	211	32.7	9.4
5	10640.00	58.9 PK	74.0	-15.1	1.70 V	320	42.5	16.4
6	10640.00	47.6 AV	54.0	-6.4	1.70 V	320	31.2	16.4

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	52.8 PK	74.0	-21.2	3.07 H	267	43.2	9.6
2	5460.00	42.2 AV	54.0	-11.8	3.07 H	267	32.6	9.6
3	#5470.00	52.6 PK	68.2	-15.6	3.07 H	267	43.0	9.6
4	*5500.00	100.6 PK			3.07 H	267	61.3	39.3
5	*5500.00	93.7 AV			3.07 H	267	54.4	39.3
6	11000.00	58.8 PK	74.0	-15.2	1.35 H	218	42.3	16.5
7	11000.00	47.5 AV	54.0	-6.5	1.35 H	218	31.0	16.5
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	5460.00	53.0 PK	74.0	-21.0	2.20 V	225	43.4	9.6
2	5460.00	42.4 AV	54.0	-11.6	2.20 V	225	32.8	9.6
3	#5470.00	52.8 PK	68.2	-15.4	2.20 V	225	43.2	9.6
4	*5500.00	102.9 PK			2.20 V	225	63.6	39.3
5	*5500.00	96.2 AV			2.20 V	225	56.9	39.3
6	11000.00	59.0 PK	74.0	-15.0	1.82 V	321	42.5	16.5
7	11000.00	47.7 AV	54.0	-6.3	1.82 V	321	31.2	16.5

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 120 : 5600 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5600.00	100.3 PK			3.67 H	264	60.6	39.7
2	*5600.00	93.3 AV			3.67 H	264	53.6	39.7
3	11200.00	59.2 PK	74.0	-14.8	1.30 H	218	42.4	16.8
4	11200.00	47.8 AV	54.0	-6.2	1.30 H	218	31.0	16.8
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	*5600.00	103.7 PK			2.67 V	227	64.0	39.7
2	*5600.00	96.9 AV			2.67 V	227	57.2	39.7
3	11200.00	59.4 PK	74.0	-14.6	1.75 V	303	42.6	16.8
4	11200.00	48.1 AV	54.0	-5.9	1.75 V	303	31.3	16.8

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	100.5 PK			2.40 H	243	60.5	40.0
2	*5700.00	93.5 AV			2.40 H	243	53.5	40.0
3	#5725.00	54.4 PK	68.2	-13.8	2.40 H	243	44.2	10.2
4	11400.00	58.9 PK	74.0	-15.1	1.31 H	209	42.1	16.8
5	11400.00	47.8 AV	54.0	-6.2	1.31 H	209	31.0	16.8
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	*5700.00	103.4 PK			2.21 V	222	63.4	40.0
2	*5700.00	96.7 AV			2.21 V	222	56.7	40.0
3	#5725.00	54.7 PK	68.2	-13.5	2.21 V	222	44.5	10.2
4	11400.00	59.2 PK	74.0	-14.8	1.75 V	321	42.4	16.8
5	11400.00	48.1 AV	54.0	-5.9	1.75 V	321	31.3	16.8

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	51.7 PK	68.2	-16.5	1.43 H	264	42.1	9.6
2	*5720.00	100.5 PK			1.43 H	264	60.3	40.2
3	*5720.00	93.3 AV			1.43 H	264	53.1	40.2
4	#5850.00	52.6 PK	68.2	-15.6	1.43 H	264	42.2	10.4
5	11440.00	59.1 PK	74.0	-14.9	1.31 H	210	42.3	16.8
6	11440.00	48.1 AV	54.0	-5.9	1.31 H	210	31.3	16.8
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	#5470.00	51.9 PK	68.2	-16.3	1.47 V	223	42.3	9.6
2	*5720.00	104.0 PK			1.47 V	223	63.8	40.2
3	*5720.00	97.1 AV			1.47 V	223	56.9	40.2
4	#5850.00	52.8 PK	68.2	-15.4	1.47 V	223	42.4	10.4
5	11440.00	59.4 PK	74.0	-14.6	1.90 V	321	42.6	16.8
6	11440.00	48.4 AV	54.0	-5.6	1.90 V	321	31.6	16.8

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5635.20	56.4 PK	68.2	-11.8	1.36 H	266	46.2	10.2
2	*5745.00	100.6 PK			1.36 H	266	60.3	40.3
3	*5745.00	92.9 AV			1.36 H	266	52.6	40.3
4	#5937.20	57.2 PK	68.2	-11.0	1.36 H	266	47.0	10.2
5	11490.00	59.5 PK	74.0	-14.5	1.28 H	212	42.6	16.9
6	11490.00	50.2 AV	54.0	-3.8	1.28 H	212	33.3	16.9
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	#5640.00	57.0 PK	68.2	-11.2	2.12 V	221	46.8	10.2
2	*5745.00	104.5 PK			2.12 V	221	64.2	40.3
3	*5745.00	97.1 AV			2.12 V	221	56.8	40.3
4	#5928.80	56.9 PK	68.2	-11.3	2.12 V	221	46.7	10.2
5	11490.00	59.8 PK	74.0	-14.2	1.43 V	216	42.9	16.9
6	11490.00	50.5 AV	54.0	-3.5	1.43 V	216	33.6	16.9

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5632.80	57.0 PK	68.2	-11.2	1.34 H	265	46.9	10.1
2	*5785.00	100.8 PK			1.34 H	265	60.2	40.6
3	*5785.00	93.3 AV			1.34 H	265	52.7	40.6
4	#5948.80	57.4 PK	68.2	-10.8	1.34 H	265	47.2	10.2
5	11570.00	60.7 PK	74.0	-13.3	1.25 H	210	43.4	17.3
6	11570.00	50.5 AV	54.0	-3.5	1.25 H	210	33.2	17.3
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	#5644.00	56.6 PK	68.2	-11.6	2.18 V	230	46.4	10.2
2	*5785.00	106.8 PK			2.18 V	230	66.2	40.6
3	*5785.00	99.1 AV			2.18 V	230	58.5	40.6
4	#5964.00	58.4 PK	68.2	-9.8	2.18 V	230	48.2	10.2
5	11570.00	61.0 PK	74.0	-13.0	1.49 V	216	43.7	17.3
6	11570.00	50.8 AV	54.0	-3.2	1.49 V	216	33.5	17.3

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5614.40	58.0 PK	68.2	-10.2	1.37 H	267	47.9	10.1
2	*5825.00	101.1 PK			1.37 H	267	60.6	40.5
3	*5825.00	93.3 AV			1.37 H	267	52.8	40.5
4	#5937.20	56.9 PK	68.2	-11.3	1.37 H	267	46.7	10.2
5	11650.00	60.0 PK	74.0	-14.0	1.28 H	219	42.8	17.2
6	11650.00	50.3 AV	54.0	-3.7	1.28 H	219	33.1	17.2
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	#5643.20	55.9 PK	68.2	-12.3	2.16 V	226	45.7	10.2
2	*5825.00	105.7 PK			2.16 V	226	65.2	40.5
3	*5825.00	98.1 AV			2.16 V	226	57.6	40.5
4	#5945.60	57.0 PK	68.2	-11.2	2.16 V	226	46.8	10.2
5	11650.00	60.3 PK	74.0	-13.7	1.55 V	210	43.1	17.2
6	11650.00	50.6 AV	54.0	-3.4	1.55 V	210	33.4	17.2

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.9 PK	74.0	-21.1	1.47 H	110	42.7	10.2
2	5150.00	43.2 AV	54.0	-10.8	1.47 H	110	33.0	10.2
3	*5190.00	98.6 PK			1.47 H	110	59.0	39.6
4	*5190.00	91.1 AV			1.47 H	110	51.5	39.6
5	#10380.00	58.0 PK	68.2	-10.2	1.24 H	235	42.1	15.9
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	53.1 PK	74.0	-20.9	2.27 V	216	42.9	10.2
2	5150.00	43.5 AV	54.0	-10.5	2.27 V	216	33.3	10.2
3	*5190.00	101.7 PK			2.27 V	216	62.1	39.6
4	*5190.00	93.6 AV			2.27 V	216	54.0	39.6
5	#10380.00	58.3 PK	68.2	-9.9	1.65 V	330	42.4	15.9

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	98.6 PK			1.89 H	126	59.2	39.4
2	*5230.00	91.7 AV			1.89 H	126	52.3	39.4
3	5350.00	52.4 PK	74.0	-21.6	1.89 H	126	43.0	9.4
4	5350.00	41.4 AV	54.0	-12.6	1.89 H	126	32.0	9.4
5	#10460.00	57.9 PK	68.2	-10.3	1.22 H	231	41.8	16.1
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	*5230.00	101.0 PK			2.28 V	216	61.6	39.4
2	*5230.00	93.4 AV			2.28 V	216	54.0	39.4
3	5350.00	52.7 PK	74.0	-21.3	2.28 V	216	43.3	9.4
4	5350.00	41.6 AV	54.0	-12.4	2.28 V	216	32.2	9.4
5	#10460.00	58.3 PK	68.2	-9.9	1.70 V	334	42.2	16.1

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.7 PK	74.0	-21.3	1.87 H	124	42.5	10.2
2	5150.00	42.4 AV	54.0	-11.6	1.87 H	124	32.2	10.2
3	*5270.00	99.4 PK			1.87 H	124	60.0	39.4
4	*5270.00	92.4 AV			1.87 H	124	53.0	39.4
5	5350.00	53.2 PK	74.0	-20.8	1.87 H	124	43.8	9.4
6	5350.00	41.4 AV	54.0	-12.6	1.87 H	124	32.0	9.4
7	#10540.00	58.5 PK	68.2	-9.7	1.31 H	240	42.2	16.3
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	5150.00	52.9 PK	74.0	-21.1	2.26 V	215	42.7	10.2
2	5150.00	42.6 AV	54.0	-11.4	2.26 V	215	32.4	10.2
3	*5270.00	101.8 PK			2.26 V	215	62.4	39.4
4	*5270.00	93.8 AV			2.26 V	215	54.4	39.4
5	5350.00	53.4 PK	74.0	-20.6	2.26 V	215	44.0	9.4
6	5350.00	41.6 AV	54.0	-12.4	2.26 V	215	32.2	9.4
7	#10540.00	58.7 PK	68.2	-9.5	1.63 V	312	42.4	16.3

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	99.2 PK			1.45 H	124	59.8	39.4
2	*5310.00	91.9 AV			1.45 H	124	52.5	39.4
3	5350.00	51.6 PK	74.0	-22.4	1.45 H	124	42.2	9.4
4	5350.00	43.2 AV	54.0	-10.8	1.45 H	124	33.8	9.4
5	10620.00	58.5 PK	74.0	-15.5	1.35 H	226	42.1	16.4
6	10620.00	47.5 AV	54.0	-6.5	1.35 H	226	31.1	16.4
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	*5310.00	101.5 PK			2.22 V	215	62.1	39.4
2	*5310.00	93.9 AV			2.22 V	215	54.5	39.4
3	5350.00	51.9 PK	74.0	-22.1	2.22 V	215	42.5	9.4
4	5350.00	43.4 AV	54.0	-10.6	2.22 V	215	34.0	9.4
5	10620.00	58.8 PK	74.0	-15.2	1.60 V	320	42.4	16.4
6	10620.00	47.8 AV	54.0	-6.2	1.60 V	320	31.4	16.4

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	53.1 PK	74.0	-20.9	3.06 H	268	43.5	9.6
2	5460.00	42.6 AV	54.0	-11.4	3.06 H	268	33.0	9.6
3	#5470.00	53.9 PK	68.2	-14.3	3.06 H	268	44.3	9.6
4	*5510.00	97.3 PK			3.06 H	268	58.0	39.3
5	*5510.00	90.3 AV			3.06 H	268	51.0	39.3
6	11020.00	58.7 PK	74.0	-15.3	1.28 H	205	42.1	16.6
7	11020.00	48.1 AV	54.0	-5.9	1.28 H	205	31.5	16.6
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	53.3 PK	74.0	-20.7	2.61 V	227	43.7	9.6
2	5460.00	42.8 AV	54.0	-11.2	2.61 V	227	33.2	9.6
3	#5470.00	54.2 PK	68.2	-14.0	2.61 V	227	44.6	9.6
4	*5510.00	99.6 PK			2.61 V	227	60.3	39.3
5	*5510.00	92.8 AV			2.61 V	227	53.5	39.3
6	11020.00	58.9 PK	74.0	-15.1	1.78 V	316	42.3	16.6
7	11020.00	48.3 AV	54.0	-5.7	1.78 V	316	31.7	16.6

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 126 : 5630 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5630.00	98.0 PK			1.96 H	244	58.1	39.9
2	*5630.00	89.6 AV			1.96 H	244	49.7	39.9
3	11260.00	59.1 PK	74.0	-14.9	1.21 H	211	42.4	16.7
4	11260.00	48.5 AV	54.0	-5.5	1.21 H	211	31.8	16.7
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	*5630.00	100.9 PK			2.56 V	226	61.0	39.9
2	*5630.00	92.9 AV			2.56 V	226	53.0	39.9
3	11260.00	59.3 PK	74.0	-14.7	1.80 V	305	42.6	16.7
4	11260.00	48.7 AV	54.0	-5.3	1.80 V	305	32.0	16.7

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	96.8 PK			1.44 H	266	56.8	40.0
2	*5670.00	89.2 AV			1.44 H	266	49.2	40.0
3	#5725.00	53.1 PK	68.2	-15.1	1.44 H	266	42.9	10.2
4	11340.00	59.0 PK	74.0	-15.0	1.25 H	208	42.3	16.7
5	11340.00	48.1 AV	54.0	-5.9	1.25 H	208	31.4	16.7
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	*5670.00	100.3 PK			1.53 V	223	60.3	40.0
2	*5670.00	92.7 AV			1.53 V	223	52.7	40.0
3	#5725.00	53.3 PK	68.2	-14.9	1.53 V	223	43.1	10.2
4	11340.00	59.2 PK	74.0	-14.8	1.79 V	319	42.5	16.7
5	11340.00	48.4 AV	54.0	-5.6	1.79 V	319	31.7	16.7

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	51.6 PK	68.2	-16.6	1.42 H	266	42.0	9.6
2	*5710.00	97.8 PK			1.42 H	266	57.7	40.1
3	*5710.00	90.1 AV			1.42 H	266	50.0	40.1
4	#5850.00	53.7 PK	68.2	-14.5	1.42 H	266	43.3	10.4
5	11420.00	59.2 PK	74.0	-14.8	1.28 H	216	42.5	16.7
6	11420.00	47.9 AV	54.0	-6.1	1.28 H	216	31.2	16.7
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	#5470.00	51.9 PK	68.2	-16.3	2.58 V	223	42.3	9.6
2	*5710.00	100.1 PK			2.58 V	223	60.0	40.1
3	*5710.00	92.8 AV			2.58 V	223	52.7	40.1
4	#5850.00	54.0 PK	68.2	-14.2	2.58 V	223	43.6	10.4
5	11420.00	59.4 PK	74.0	-14.6	1.85 V	315	42.7	16.7
6	11420.00	48.1 AV	54.0	-5.9	1.85 V	315	31.4	16.7

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5611.60	58.5 PK	68.2	-9.7	1.58 H	205	48.4	10.1
2	*5755.00	97.5 PK			1.58 H	205	57.1	40.4
3	*5755.00	89.5 AV			1.58 H	205	49.1	40.4
4	#5941.20	59.4 PK	68.2	-8.8	1.58 H	205	49.2	10.2
5	11510.00	61.5 PK	74.0	-12.5	1.23 H	208	44.5	17.0
6	11510.00	50.5 AV	54.0	-3.5	1.23 H	208	33.5	17.0
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	#5640.40	57.7 PK	68.2	-10.5	2.55 V	226	47.5	10.2
2	*5755.00	102.9 PK			2.55 V	226	62.5	40.4
3	*5755.00	95.3 AV			2.55 V	226	54.9	40.4
4	#5949.20	57.6 PK	68.2	-10.6	2.55 V	226	47.4	10.2
5	11510.00	61.8 PK	74.0	-12.2	1.89 V	313	44.8	17.0
6	11510.00	50.8 AV	54.0	-3.2	1.89 V	313	33.8	17.0

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5640.40	57.5 PK	68.2	-10.7	1.37 H	265	47.3	10.2
2	*5795.00	99.2 PK			1.37 H	265	58.6	40.6
3	*5795.00	91.2 AV			1.37 H	265	50.6	40.6
4	#5958.80	59.4 PK	68.2	-8.8	1.37 H	265	49.2	10.2
5	11590.00	60.4 PK	74.0	-13.6	1.25 H	209	43.2	17.2
6	11590.00	50.5 AV	54.0	-3.5	1.25 H	209	33.3	17.2
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	#5647.20	57.4 PK	68.2	-10.8	2.59 V	227	47.2	10.2
2	*5795.00	103.8 PK			2.59 V	227	63.2	40.6
3	*5795.00	95.7 AV			2.59 V	227	55.1	40.6
4	#5962.00	57.8 PK	68.2	-10.4	2.59 V	227	47.6	10.2
5	11590.00	60.7 PK	74.0	-13.3	1.82 V	311	43.5	17.2
6	11590.00	50.8 AV	54.0	-3.2	1.82 V	311	33.6	17.2

Remarks:

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

RF Mode	802.11ac (VHT80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	53.3 PK	74.0	-20.7	1.87 H	126	43.1	10.2
2	5150.00	42.7 AV	54.0	-11.3	1.87 H	126	32.5	10.2
3	*5210.00	95.5 PK			1.87 H	126	56.0	39.5
4	*5210.00	88.8 AV			1.87 H	126	49.3	39.5
5	5350.00	51.9 PK	74.0	-22.1	1.87 H	126	42.5	9.4
6	5350.00	41.4 AV	54.0	-12.6	1.87 H	126	32.0	9.4
7	#10420.00	57.9 PK	68.2	-10.3	1.25 H	236	42.0	15.9
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	53.6 PK	74.0	-20.4	2.25 V	215	43.4	10.2
2	5150.00	43.0 AV	54.0	-11.0	2.25 V	215	32.8	10.2
3	*5210.00	97.6 PK			2.25 V	215	58.1	39.5
4	*5210.00	90.4 AV			2.25 V	215	50.9	39.5
5	5350.00	52.1 PK	74.0	-21.9	2.25 V	215	42.7	9.4
6	5350.00	41.6 AV	54.0	-12.4	2.25 V	215	32.2	9.4
7	#10420.00	58.2 PK	68.2	-10.0	1.72 V	328	42.3	15.9

Remarks:

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

RF Mode	802.11ac (VHT80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.4 PK	74.0	-21.6	1.86 H	124	42.2	10.2
2	5150.00	42.5 AV	54.0	-11.5	1.86 H	124	32.3	10.2
3	*5290.00	95.1 PK			1.86 H	124	55.7	39.4
4	*5290.00	88.3 AV			1.86 H	124	48.9	39.4
5	5350.00	54.0 PK	74.0	-20.0	1.86 H	124	44.6	9.4
6	5350.00	43.7 AV	54.0	-10.3	1.86 H	124	34.3	9.4
7	#10580.00	58.5 PK	68.2	-9.7	1.40 H	223	42.2	16.3
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	5150.00	52.6 PK	74.0	-21.4	2.22 V	216	42.4	10.2
2	5150.00	42.7 AV	54.0	-11.3	2.22 V	216	32.5	10.2
3	*5290.00	98.0 PK			2.22 V	216	58.6	39.4
4	*5290.00	90.4 AV			2.22 V	216	51.0	39.4
5	5350.00	54.2 PK	74.0	-19.8	2.22 V	216	44.8	9.4
6	5350.00	44.0 AV	54.0	-10.0	2.22 V	216	34.6	9.4
7	#10580.00	58.8 PK	68.2	-9.4	1.64 V	315	42.5	16.3

Remarks:

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

RF Mode	802.11ac (VHT80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	52.4 PK	74.0	-21.6	1.99 H	243	42.8	9.6
2	5460.00	42.8 AV	54.0	-11.2	1.99 H	243	33.2	9.6
3	#5470.00	53.5 PK	68.2	-14.7	1.99 H	243	43.9	9.6
4	*5530.00	94.5 PK			1.99 H	243	55.3	39.2
5	*5530.00	86.1 AV			1.99 H	243	46.9	39.2
6	#5725.00	53.2 PK	68.2	-15.0	1.99 H	243	43.0	10.2
7	11060.00	59.0 PK	74.0	-15.0	1.26 H	210	42.3	16.7
8	11060.00	48.2 AV	54.0	-5.8	1.26 H	210	31.5	16.7
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	53.9 PK	74.0	-20.1	2.15 V	227	44.3	9.6
2	5460.00	44.8 AV	54.0	-9.2	2.15 V	227	35.2	9.6
3	#5470.00	54.9 PK	68.2	-13.3	2.15 V	227	45.3	9.6
4	*5530.00	97.3 PK			2.15 V	227	58.1	39.2
5	*5530.00	89.4 AV			2.15 V	227	50.2	39.2
6	#5725.00	53.4 PK	68.2	-14.8	2.15 V	227	43.2	10.2
7	11060.00	59.3 PK	74.0	-14.7	1.82 V	320	42.6	16.7
8	11060.00	48.5 AV	54.0	-5.5	1.82 V	320	31.8	16.7

Remarks:

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

RF Mode	802.11ac (VHT80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	52.2 PK	74.0	-21.8	1.40 H	265	42.6	9.6
2	5460.00	41.6 AV	54.0	-12.4	1.40 H	265	32.0	9.6
3	#5470.00	51.8 PK	68.2	-16.4	1.40 H	265	42.2	9.6
4	*5610.00	93.5 PK			1.40 H	265	53.7	39.8
5	*5610.00	85.3 AV			1.40 H	265	45.5	39.8
6	#5725.00	52.5 PK	68.2	-15.7	1.40 H	265	42.3	10.2
7	11220.00	59.1 PK	74.0	-14.9	1.30 H	211	42.3	16.8
8	11220.00	48.0 AV	54.0	-6.0	1.30 H	211	31.2	16.8
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	5460.00	52.4 PK	74.0	-21.6	2.25 V	226	42.8	9.6
2	5460.00	41.8 AV	54.0	-12.2	2.25 V	226	32.2	9.6
3	#5470.00	52.1 PK	68.2	-16.1	2.55 V	226	42.5	9.6
4	*5610.00	97.7 PK			2.55 V	226	57.9	39.8
5	*5610.00	89.2 AV			2.55 V	226	49.4	39.8
6	#5725.00	52.7 PK	68.2	-15.5	2.55 V	226	42.5	10.2
7	11220.00	59.3 PK	74.0	-14.7	1.84 V	333	42.5	16.8
8	11220.00	48.3 AV	54.0	-5.7	1.84 V	333	31.5	16.8

Remarks:

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

RF Mode	802.11ac (VHT80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	52.4 PK	68.2	-15.8	1.43 H	266	42.8	9.6
2	*5690.00	93.5 PK			1.43 H	266	53.5	40.0
3	*5690.00	86.0 AV			1.43 H	266	46.0	40.0
4	#5850.00	53.6 PK	68.2	-14.6	1.43 H	266	43.2	10.4
5	11380.00	59.0 PK	74.0	-15.0	1.30 H	220	42.3	16.7
6	11380.00	47.9 AV	54.0	-6.1	1.30 H	220	31.2	16.7
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	#5470.00	52.7 PK	68.2	-15.5	2.57 V	225	43.1	9.6
2	*5690.00	97.9 PK			2.57 V	225	57.9	40.0
3	*5690.00	90.0 AV			2.57 V	225	50.0	40.0
4	#5850.00	53.9 PK	68.2	-14.3	2.57 V	225	43.5	10.4
5	11380.00	59.2 PK	74.0	-14.8	1.92 V	322	42.5	16.7
6	11380.00	48.2 AV	54.0	-5.8	1.92 V	322	31.5	16.7

Remarks:

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

RF Mode	802.11ac (VHT80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5616.80	57.1 PK	68.2	-11.1	1.38 H	267	47.0	10.1
2	*5775.00	95.6 PK			1.38 H	267	55.1	40.5
3	*5775.00	87.6 AV			1.38 H	267	47.1	40.5
4	#5936.00	57.4 PK	68.2	-10.8	1.38 H	267	47.2	10.2
5	11550.00	61.2 PK	74.0	-12.8	1.35 H	229	44.1	17.1
6	11550.00	50.4 AV	54.0	-3.6	1.35 H	229	33.3	17.1
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	#5641.20	56.9 PK	68.2	-11.3	2.60 V	222	46.7	10.2
2	*5775.00	100.6 PK			2.60 V	222	60.1	40.5
3	*5775.00	91.8 AV			2.60 V	222	51.3	40.5
4	#5937.20	58.0 PK	68.2	-10.2	2.60 V	222	47.8	10.2
5	11550.00	61.5 PK	74.0	-12.5	1.90 V	318	44.4	17.1
6	11550.00	50.6 AV	54.0	-3.4	1.90 V	318	33.5	17.1

Remarks:

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

RF Mode	802.11ac (VHT160)	Channel	CH 50 : 5250 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	25 °C, 67% RH
Tested By	Vanness Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	54.3 PK	74.0	-19.7	1.79 H	123	43.2	11.1
2	5150.00	44.9 AV	54.0	-9.1	1.79 H	123	33.8	11.1
3	*5250.00	96.5 PK			1.79 H	123	56.2	40.3
4	*5250.00	88.5 AV			1.79 H	123	48.2	40.3
5	5350.00	55.2 PK	74.0	-18.8	1.79 H	123	44.8	10.4
6	5350.00	46.1 AV	54.0	-7.9	1.79 H	123	35.7	10.4
7	#10500.00	58.5 PK	68.2	-9.7	1.42 H	222	42.3	16.2
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	5150.00	54.5 PK	74.0	-19.5	2.21 V	213	43.4	11.1
2	5150.00	45.1 AV	54.0	-8.9	2.21 V	213	34.0	11.1
3	*5250.00	97.9 PK			2.21 V	213	57.6	40.3
4	*5250.00	90.0 AV			2.21 V	213	49.7	40.3
5	5350.00	55.5 PK	74.0	-18.5	2.21 V	213	45.1	10.4
6	5350.00	46.3 AV	54.0	-7.7	2.21 V	213	35.9	10.4
7	#10500.00	58.8 PK	68.2	-9.4	1.66 V	316	42.6	16.2

Remarks:

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

RF Mode	802.11ac (VHT160)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	12 Vdc	Environmental Conditions	22 °C, 67% RH
Tested By	Wade Huang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	53.4 PK	74.0	-20.6	1.96 H	244	43.8	9.6
2	5460.00	42.9 AV	54.0	-11.1	1.96 H	244	33.3	9.6
3	#5470.00	55.4 PK	68.2	-12.8	1.96 H	244	45.8	9.6
4	*5570.00	90.7 PK			1.96 H	244	51.3	39.4
5	*5570.00	83.1 AV			1.96 H	244	43.7	39.4
6	#5725.00	53.2 PK	68.2	-15.0	1.96 H	244	43.0	10.2
7	11140.00	59.1 PK	74.0	-14.9	1.28 H	208	42.3	16.8
8	11140.00	48.2 AV	54.0	-5.8	1.28 H	208	31.4	16.8
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	5460.00	54.1 PK	74.0	-19.9	2.18 V	229	44.5	9.6
2	5460.00	44.6 AV	54.0	-9.4	2.18 V	229	35.0	9.6
3	#5470.00	57.1 PK	68.2	-11.1	2.18 V	229	47.5	9.6
4	*5570.00	94.8 PK			2.18 V	229	55.4	39.4
5	*5570.00	86.8 AV			2.18 V	229	47.4	39.4
6	#5725.00	56.2 PK	68.2	-12.0	2.18 V	229	46.0	10.2
7	11140.00	59.4 PK	74.0	-14.6	1.92 V	326	42.6	16.8
8	11140.00	48.6 AV	54.0	-5.4	1.92 V	326	31.8	16.8

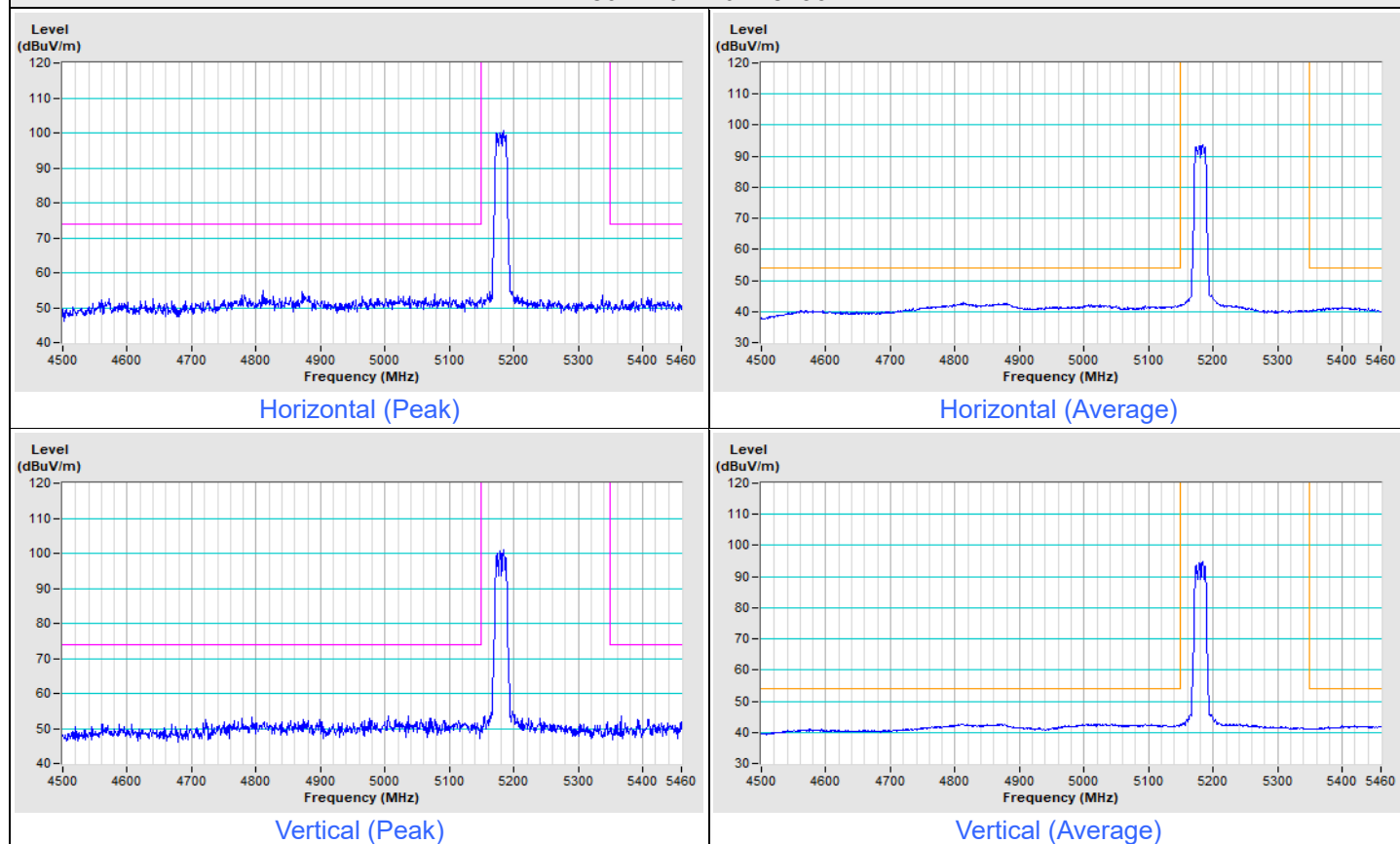
Remarks:

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

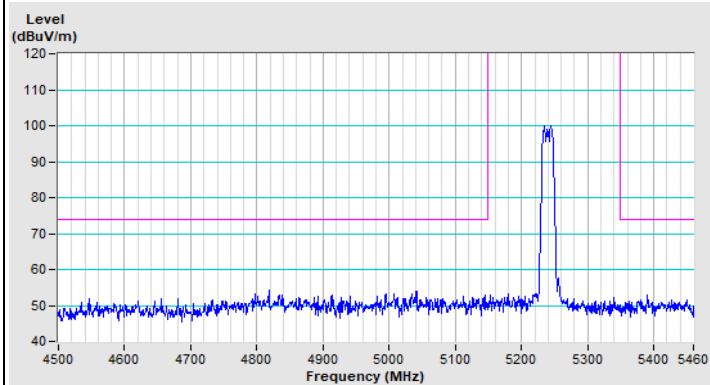
Plot of Band Edge

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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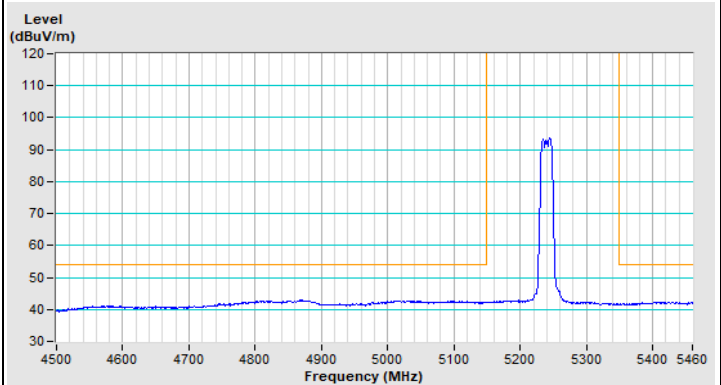
802.11a Channel 36



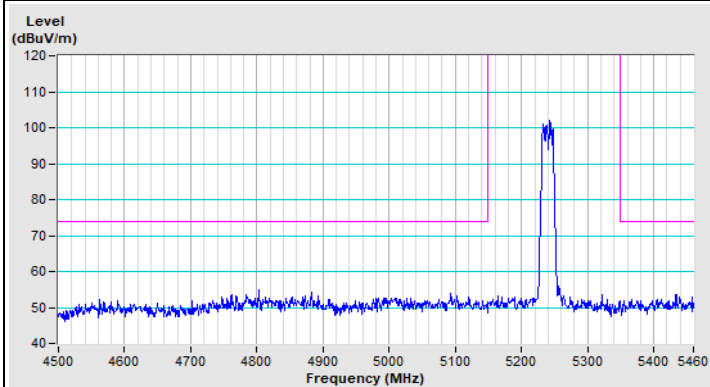
802.11a Channel 48



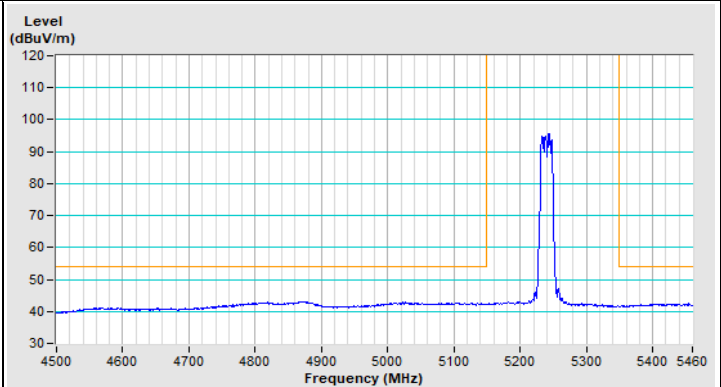
Horizontal (Peak)



Horizontal (Average)

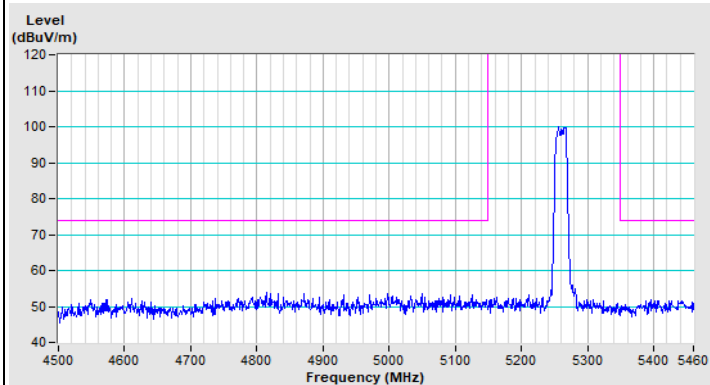


Vertical (Peak)

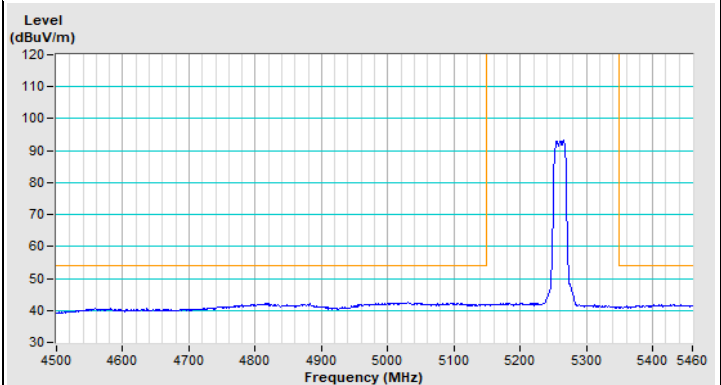


Vertical (Average)

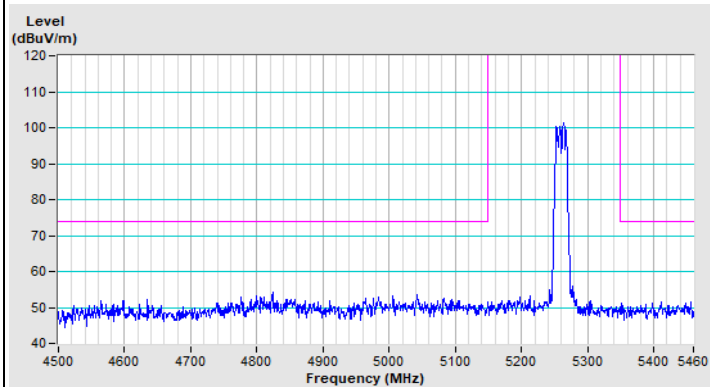
802.11a Channel 52



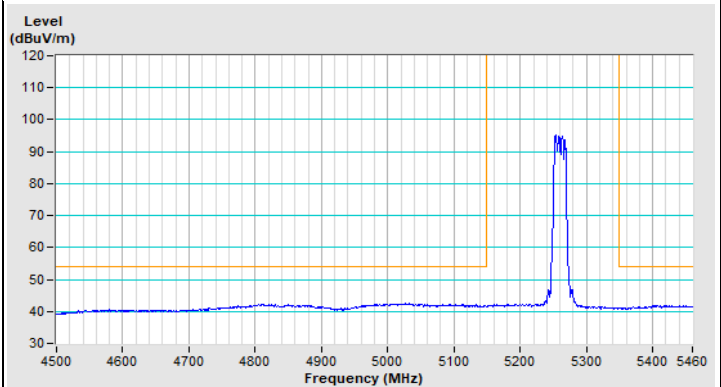
Horizontal (Peak)



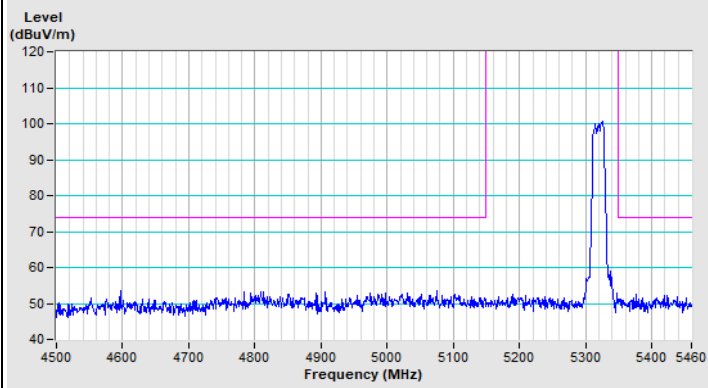
Horizontal (Average)



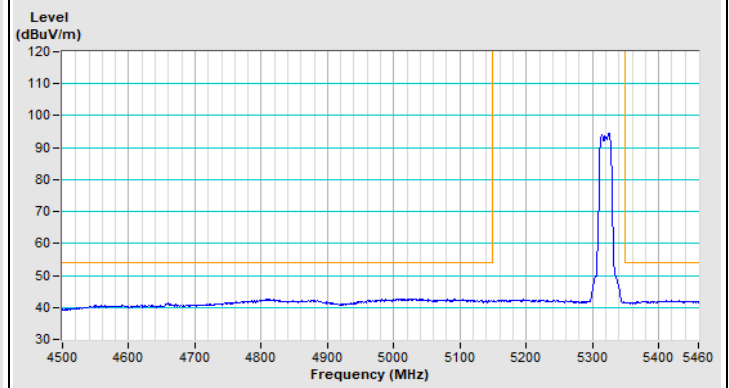
Vertical (Peak)



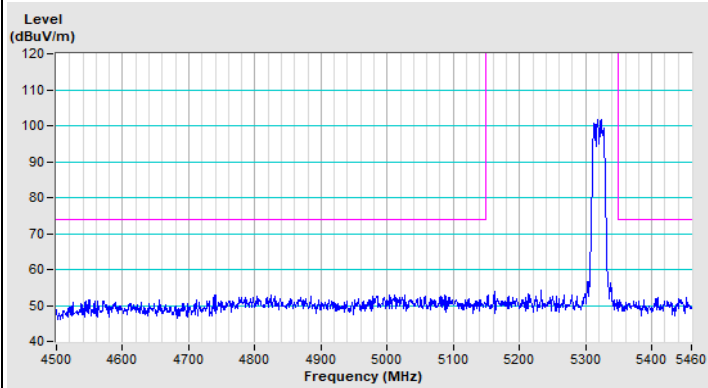
Vertical (Average)

802.11a Channel 64

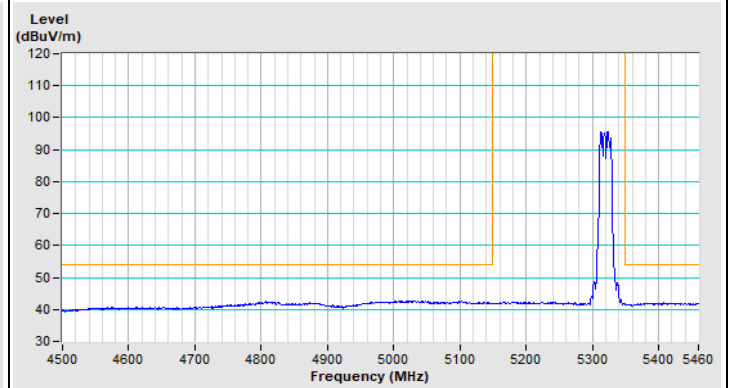
Horizontal (Peak)



Horizontal (Average)



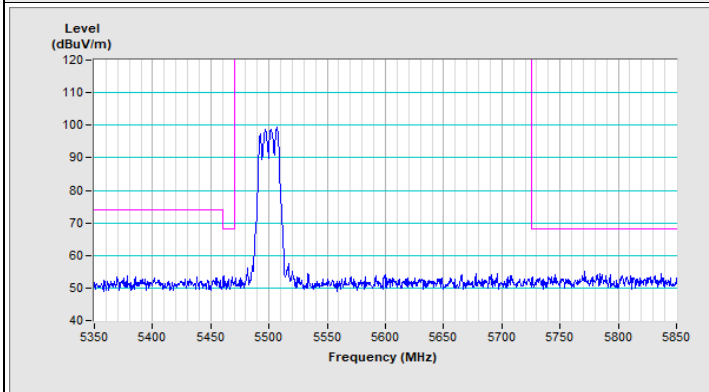
Vertical (Peak)



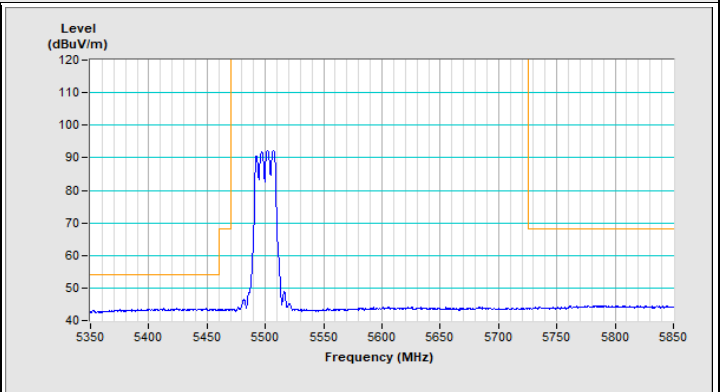
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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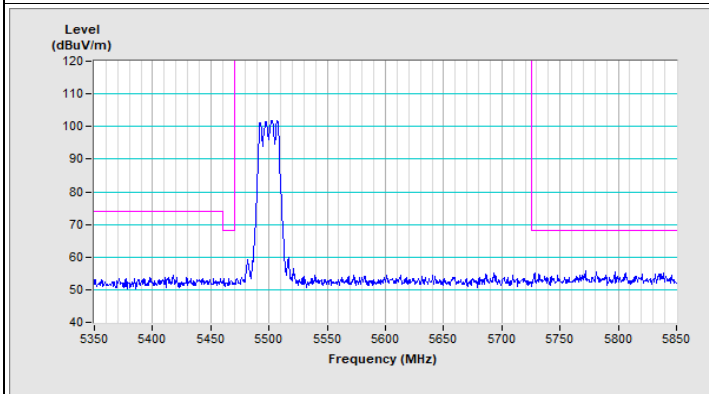
802.11a Channel 100



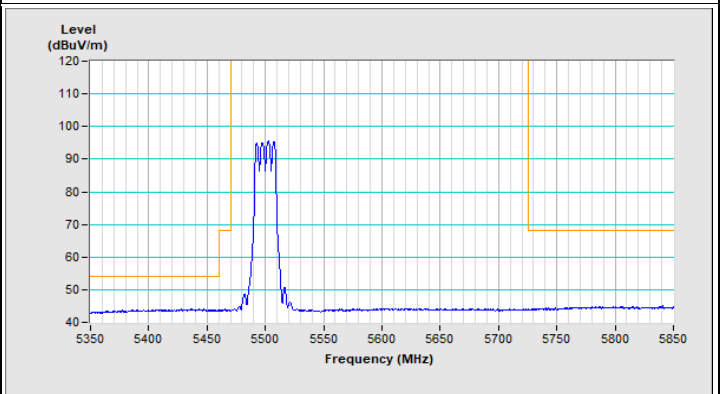
Horizontal (Peak)



Horizontal (Average)

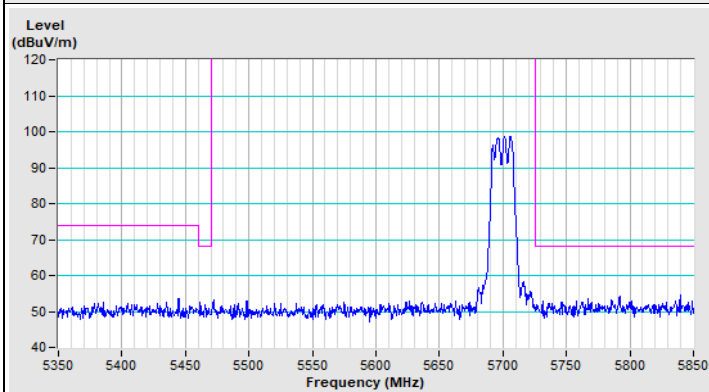


Vertical (Peak)

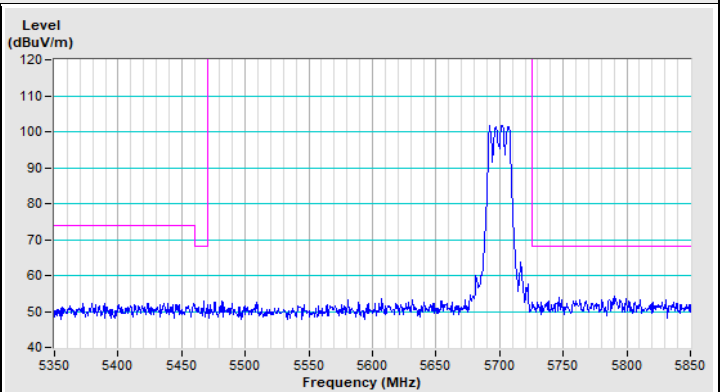


Vertical (Average)

802.11a Channel 140



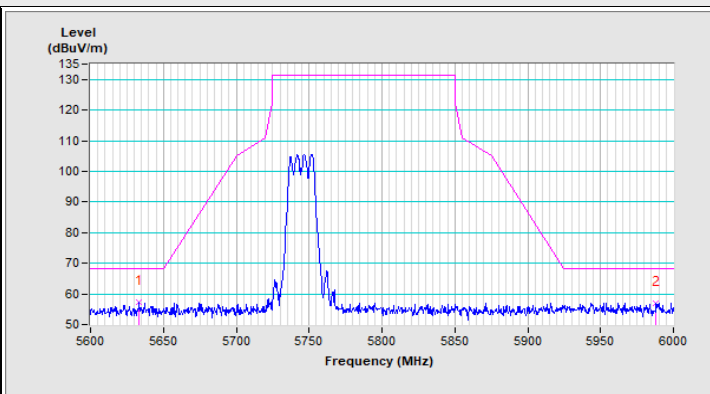
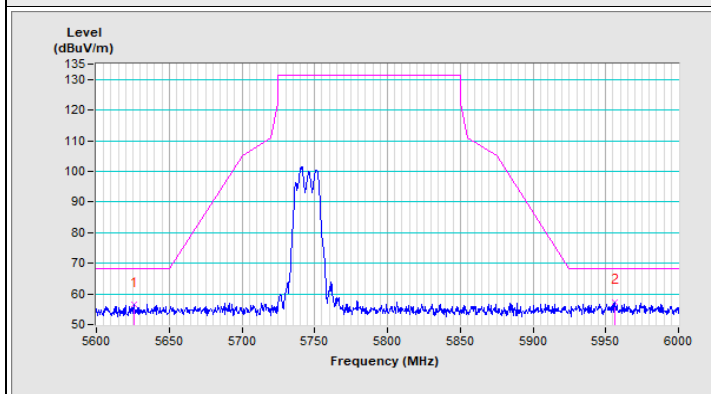
Horizontal (Peak)



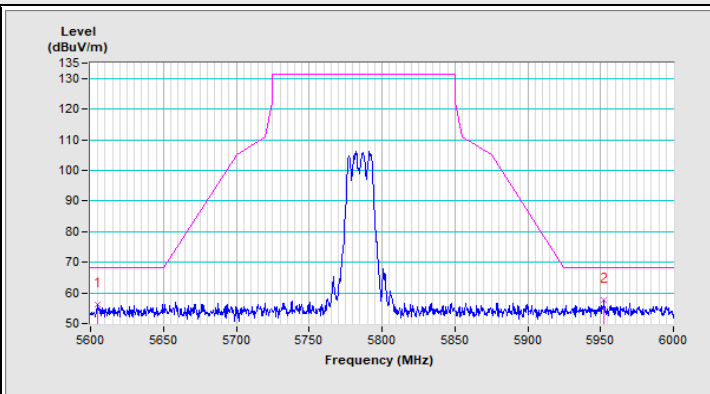
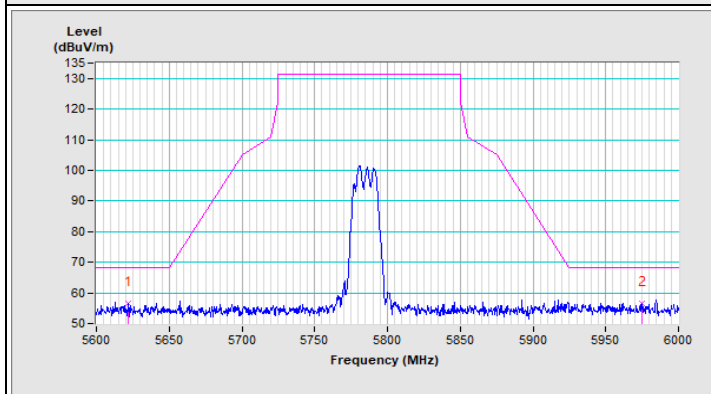
Vertical (Peak)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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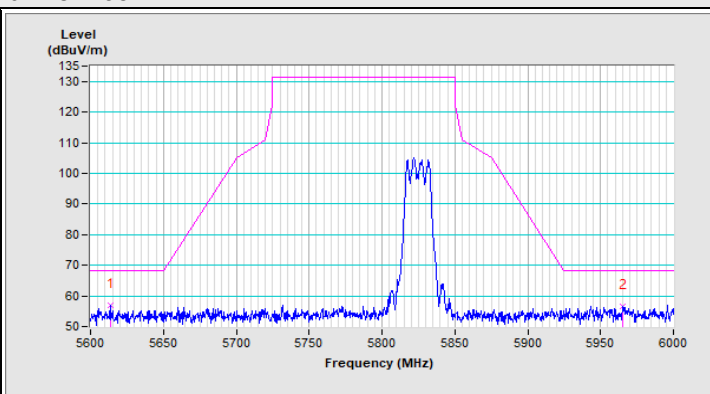
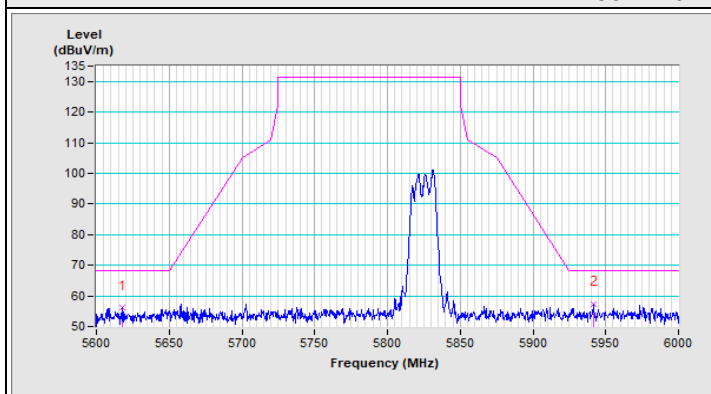
802.11a Channel 149



802.11a Channel 157

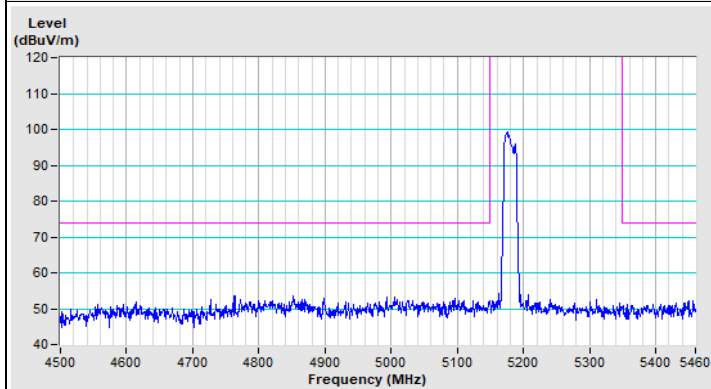


802.11a Channel 165

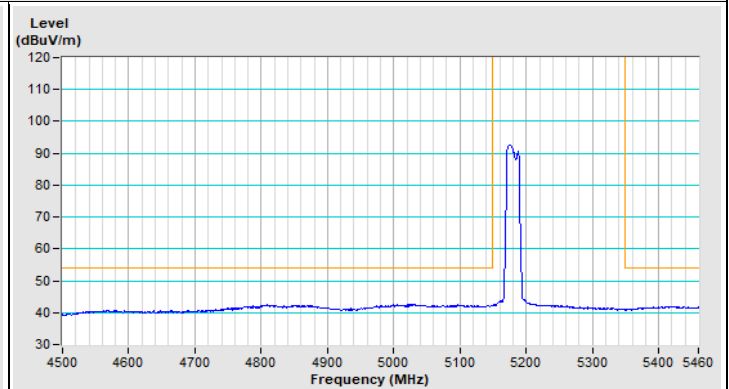


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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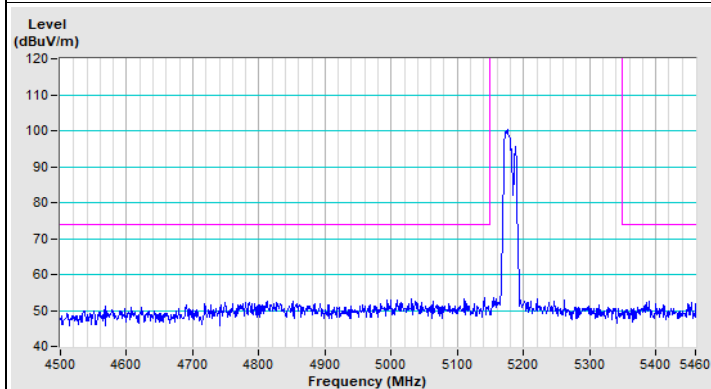
802.11ac (VHT20) Channel 36



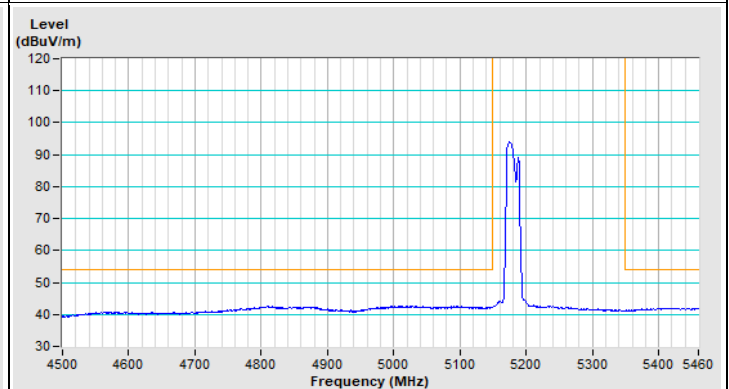
Horizontal (Peak)



Horizontal (Average)

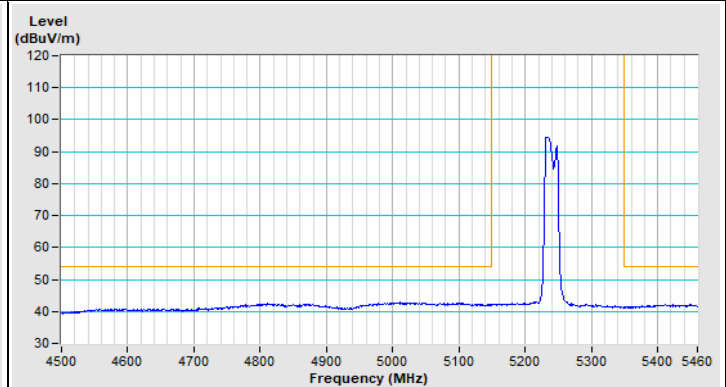
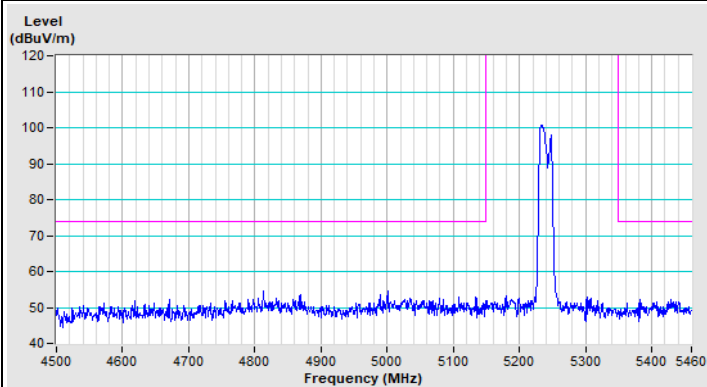
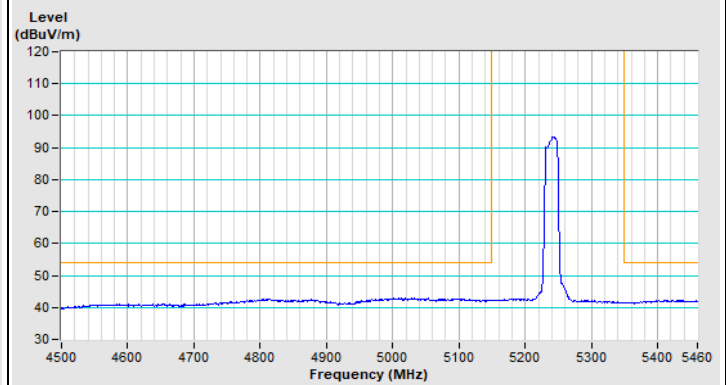
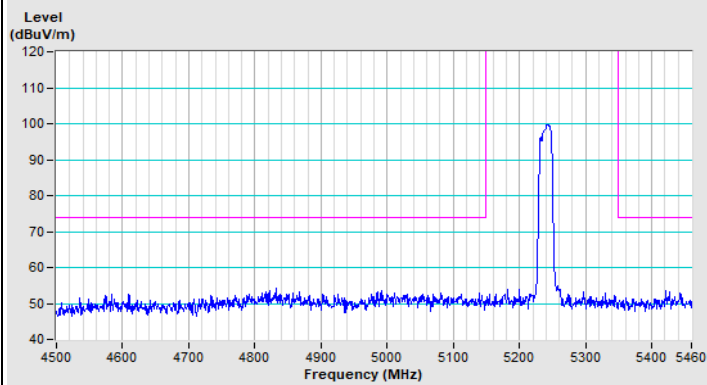


Vertical (Peak)

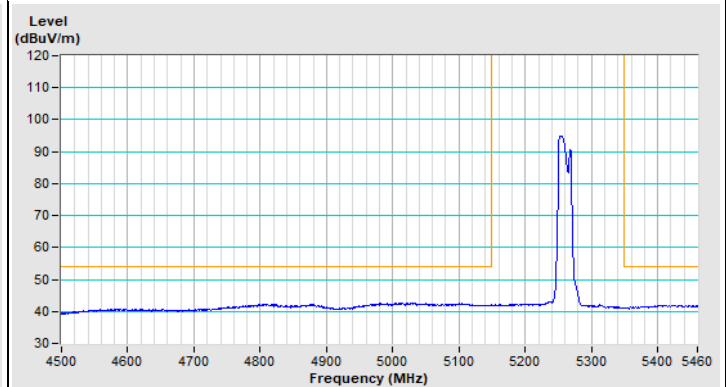
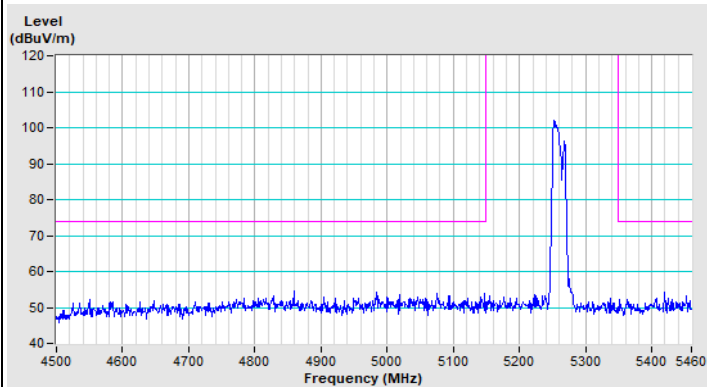
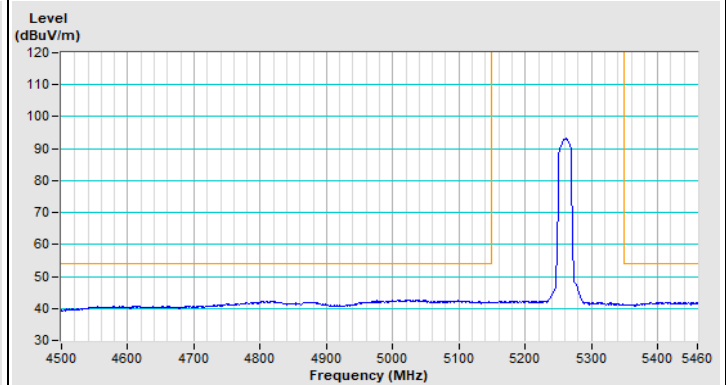
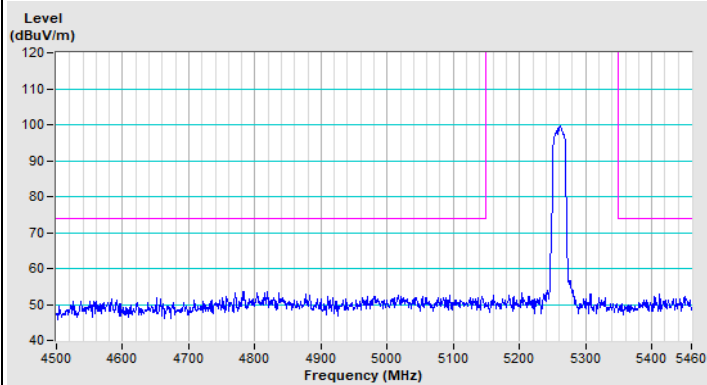


Vertical (Average)

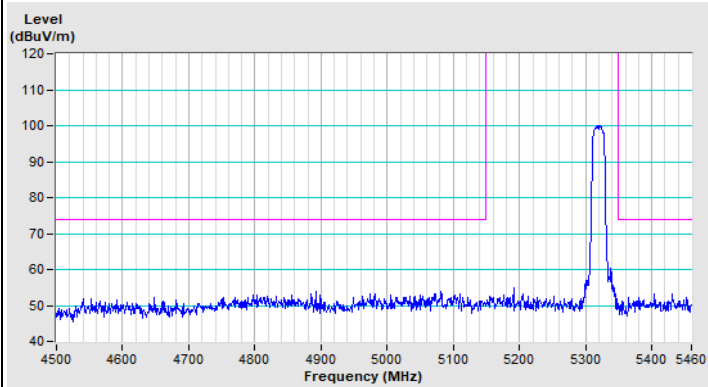
802.11ac (VHT20) Channel 48



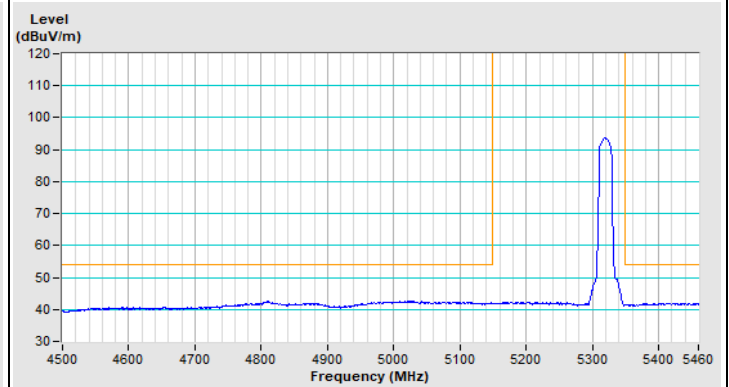
802.11ac (VHT20) Channel 52



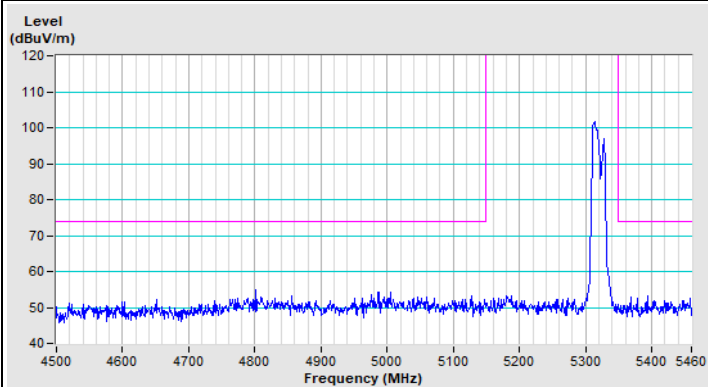
802.11ac (VHT20) Channel 64



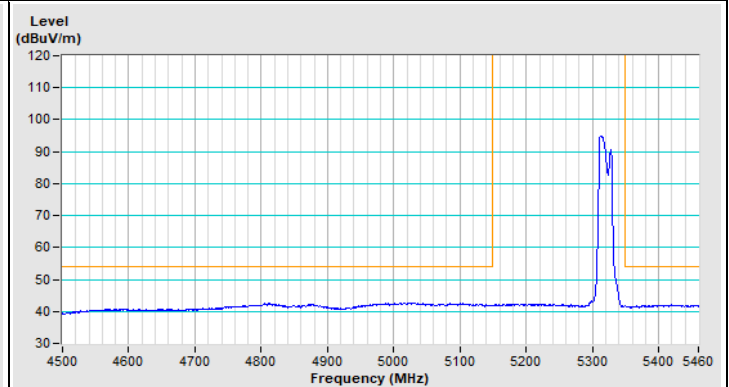
Horizontal (Peak)



Horizontal (Average)



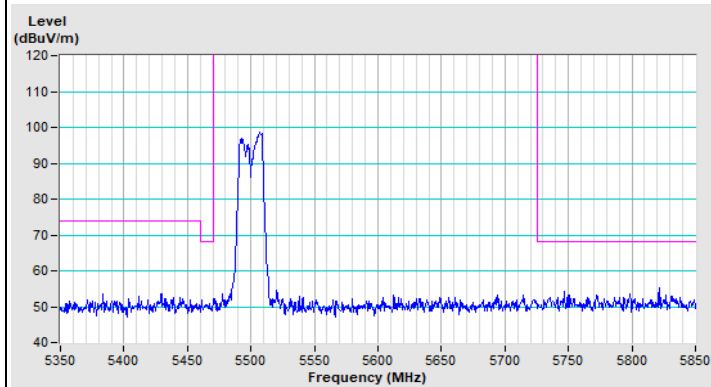
Vertical (Peak)



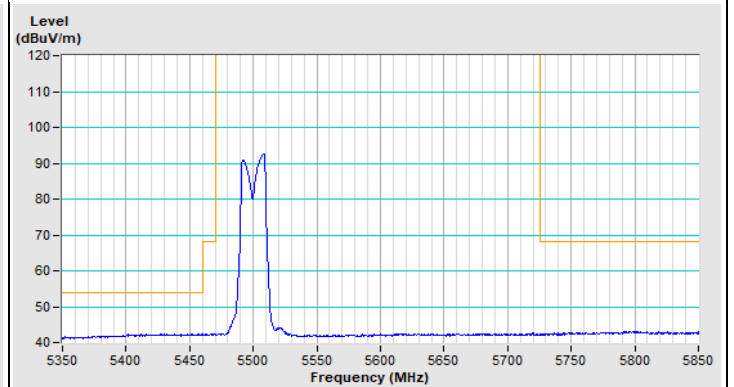
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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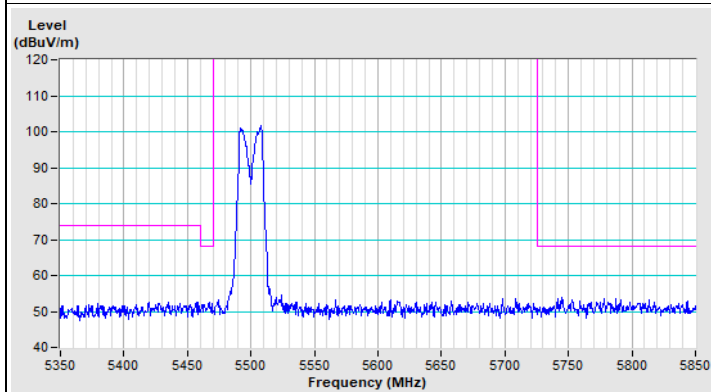
802.11ac (VHT20) Channel 100



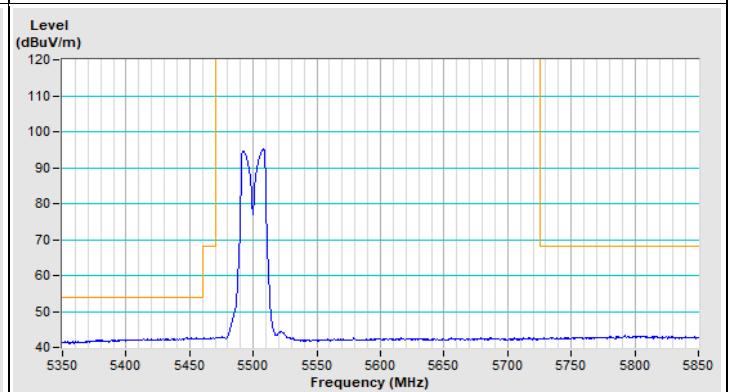
Horizontal (Peak)



Horizontal (Average)

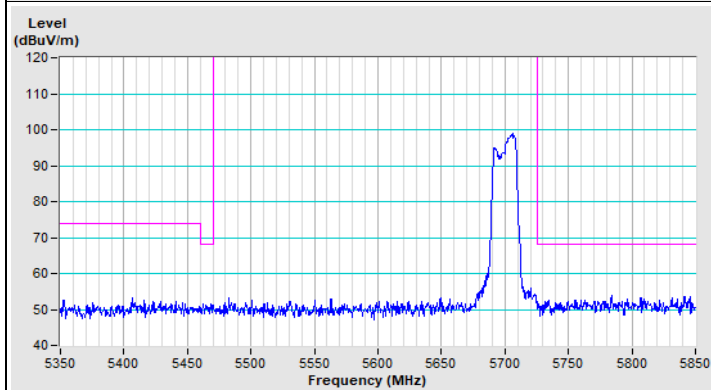


Vertical (Peak)

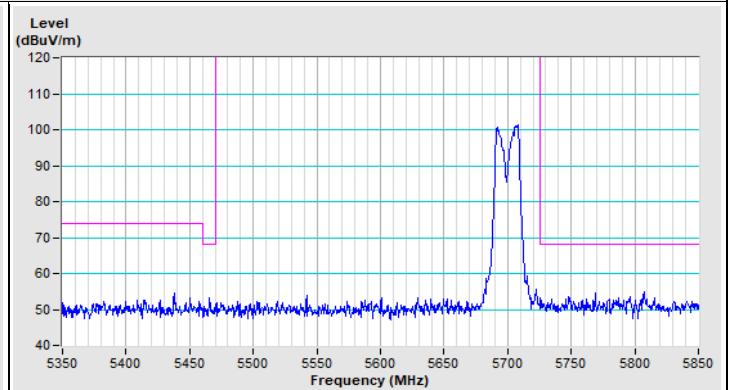


Vertical (Average)

802.11ac (VHT20) Channel 140



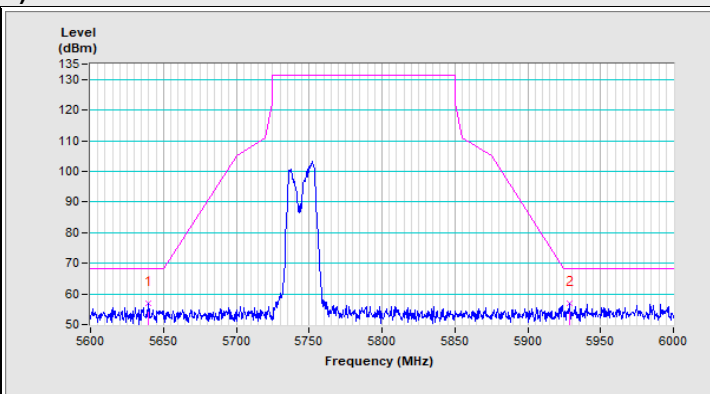
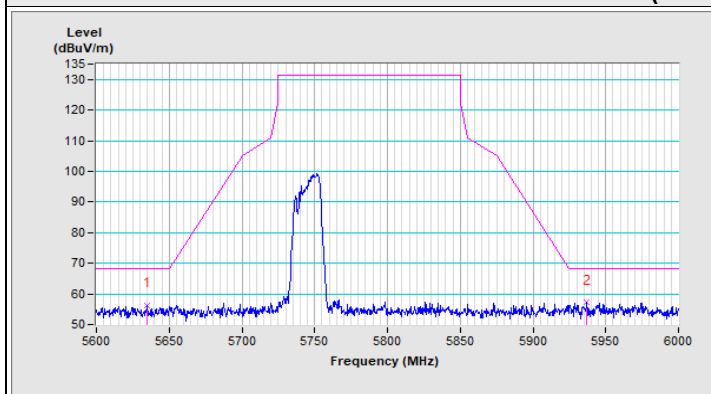
Horizontal (Peak)



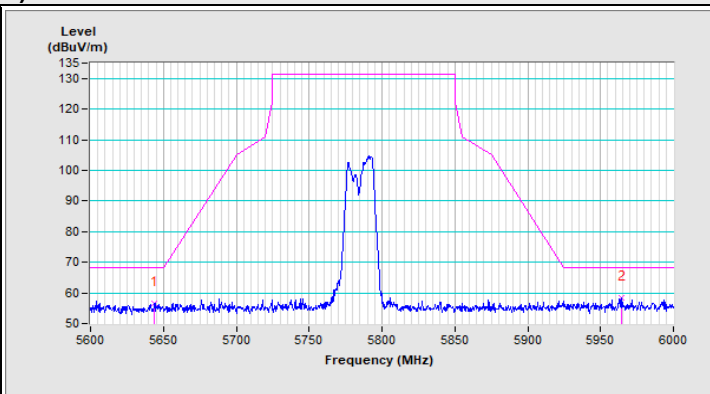
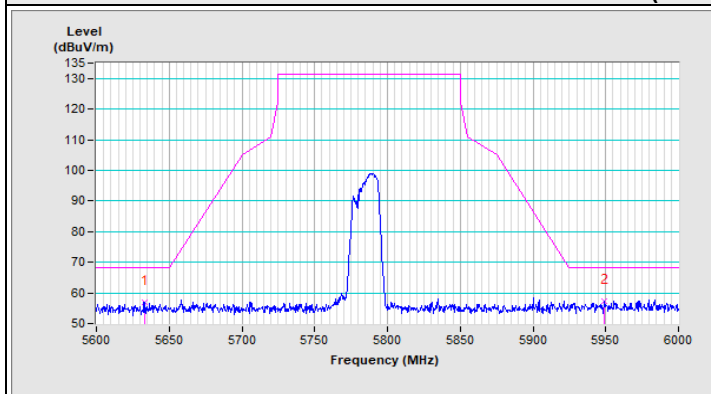
Vertical (Peak)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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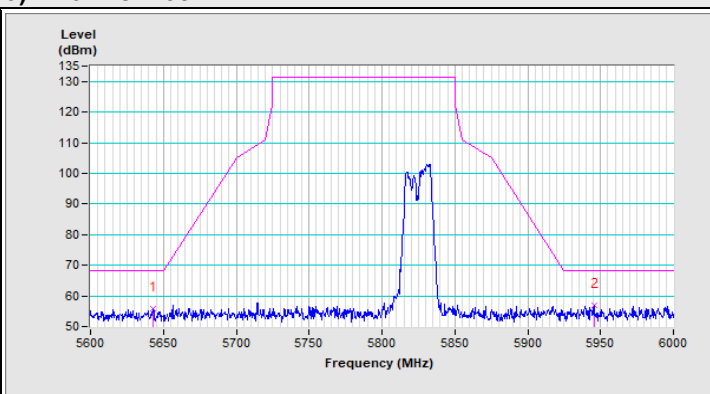
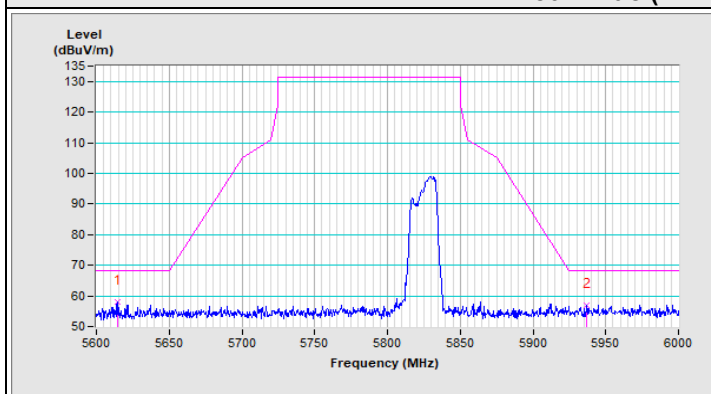
802.11ac (VHT20) Channel 149



802.11ac (VHT20) Channel 157

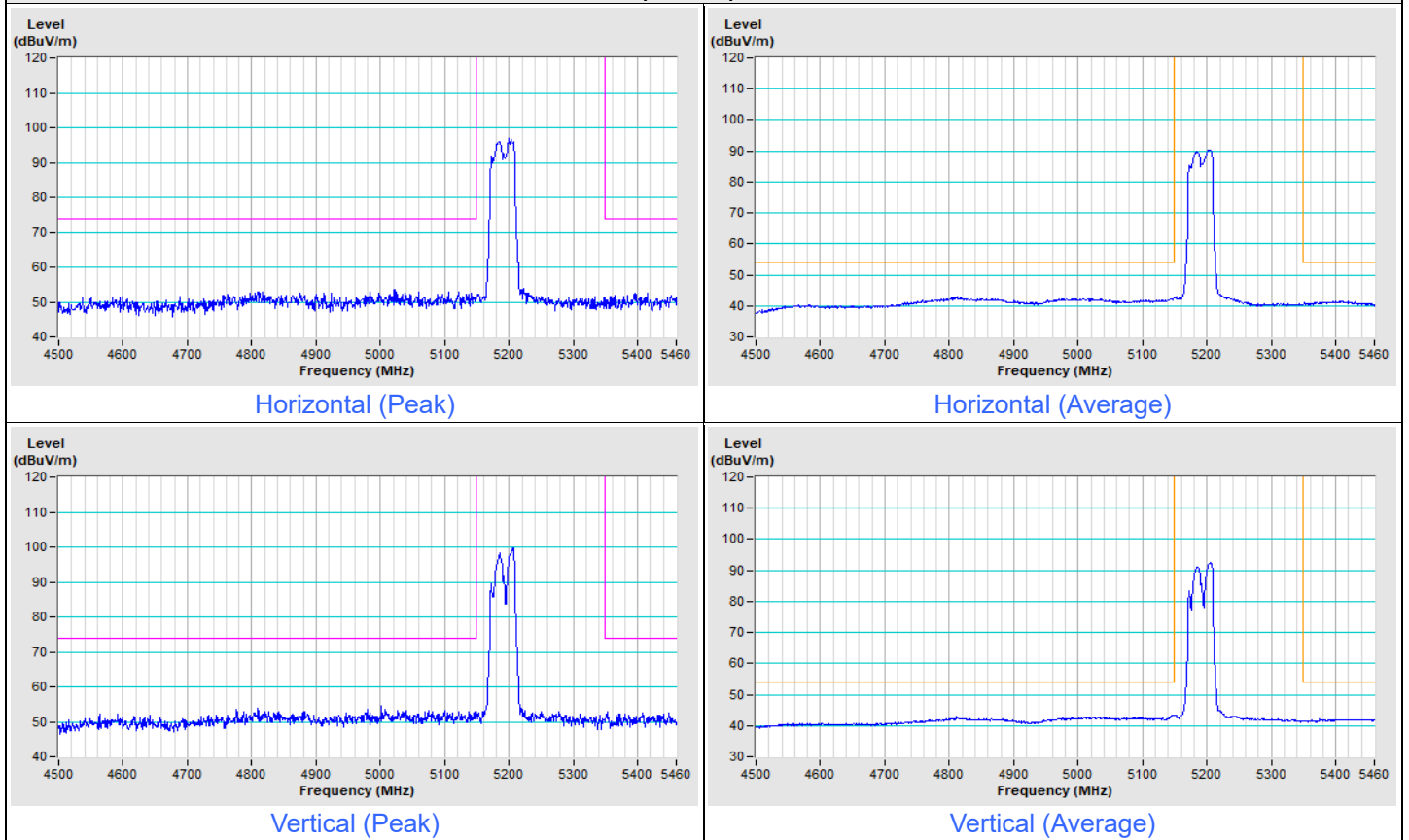


802.11ac (VHT20) Channel 165

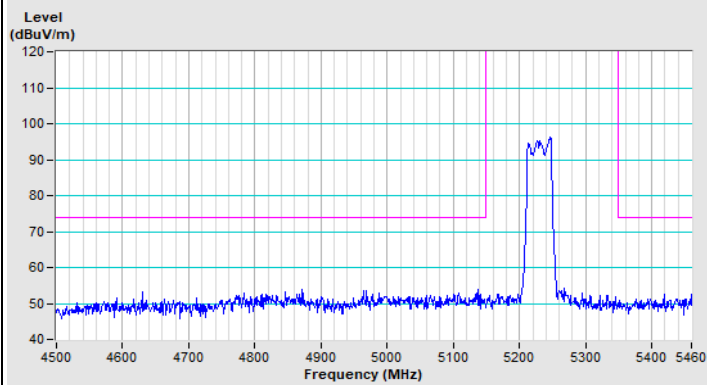


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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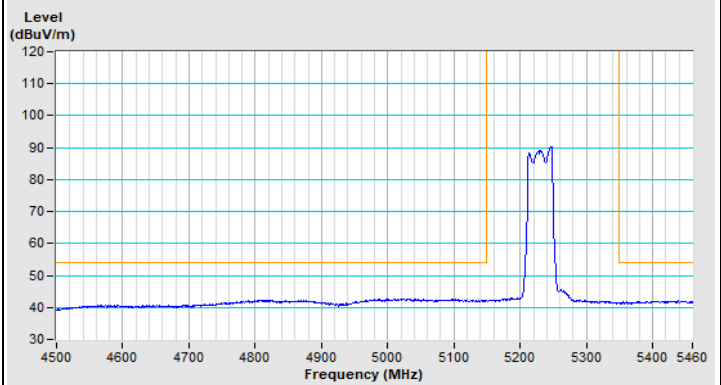
802.11ac (VHT40) Channel 38



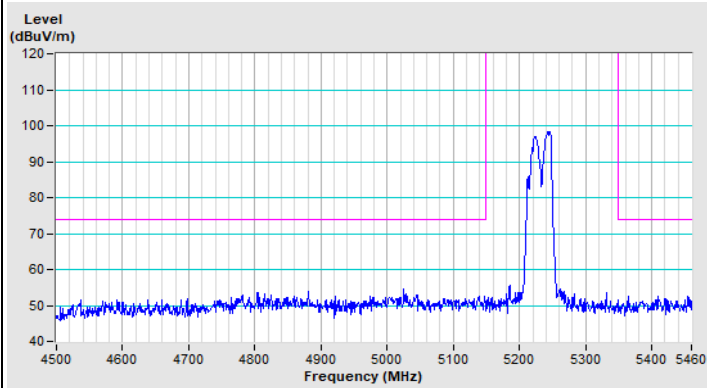
802.11ac (VHT40) Channel 46



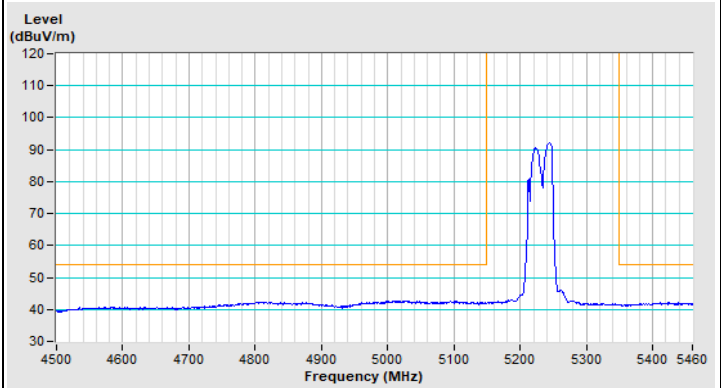
Horizontal (Peak)



Horizontal (Average)

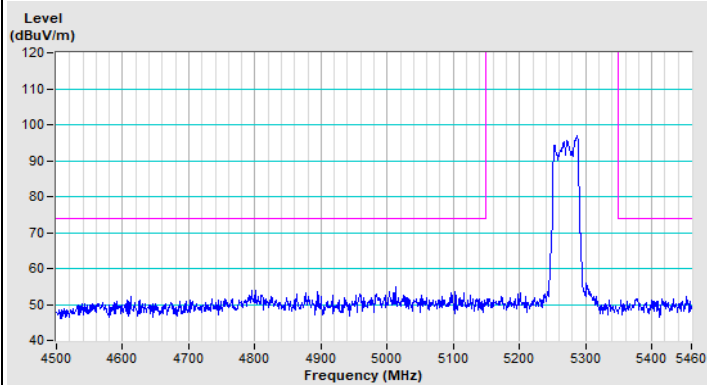


Vertical (Peak)

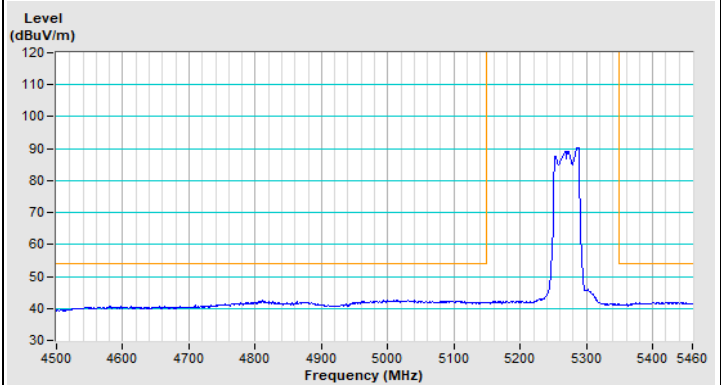


Vertical (Average)

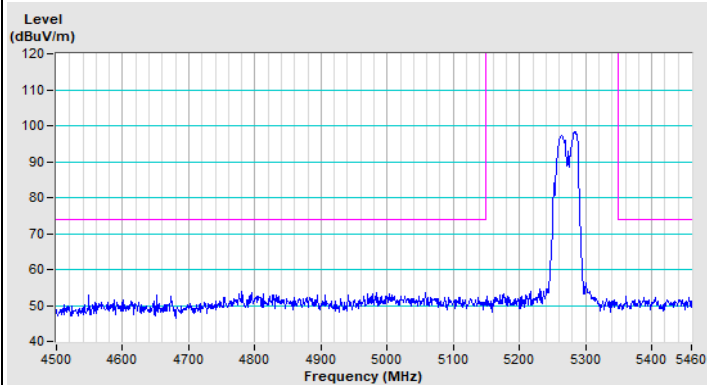
802.11ac (VHT40) Channel 54



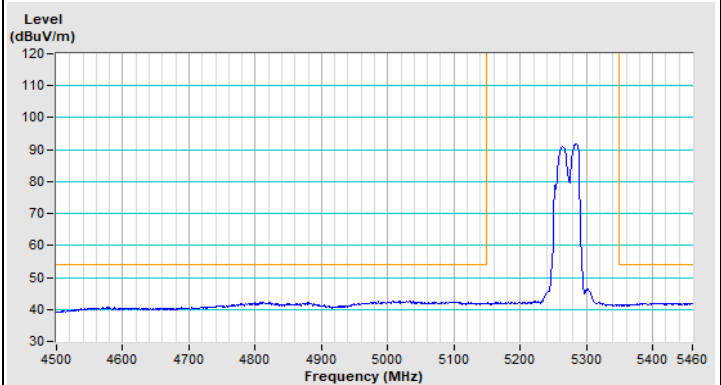
Horizontal (Peak)



Horizontal (Average)

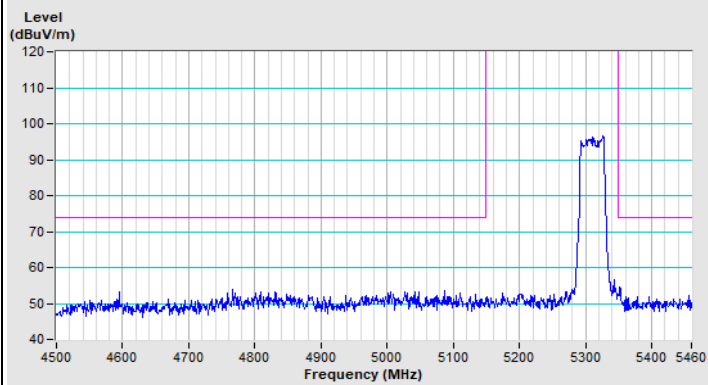


Vertical (Peak)

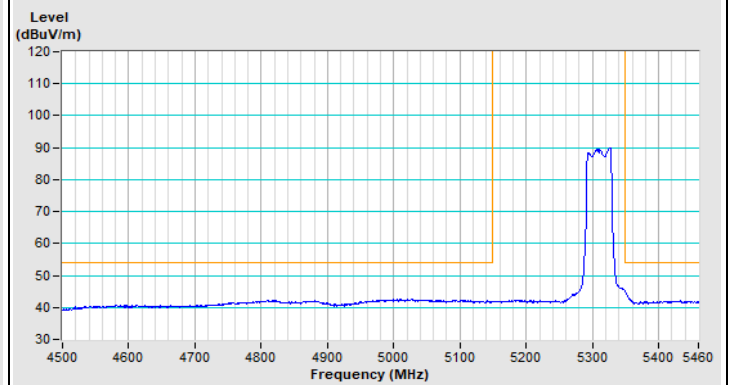


Vertical (Average)

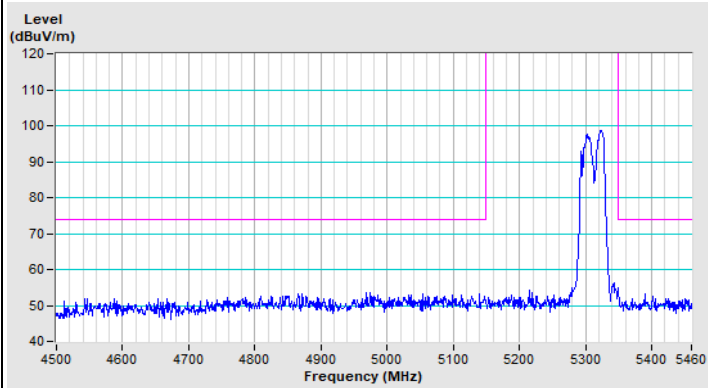
802.11ac (VHT40) Channel 62



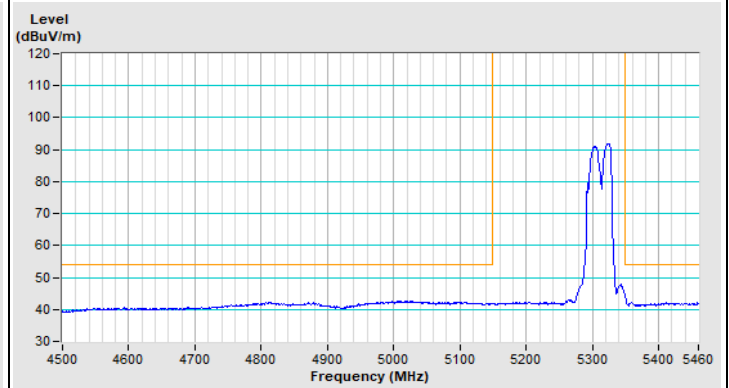
Horizontal (Peak)



Horizontal (Average)



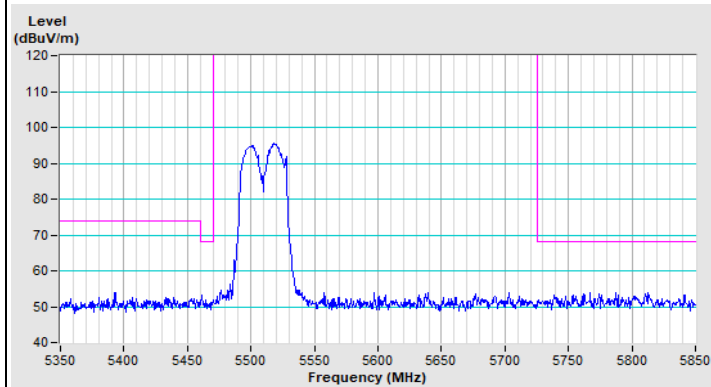
Vertical (Peak)



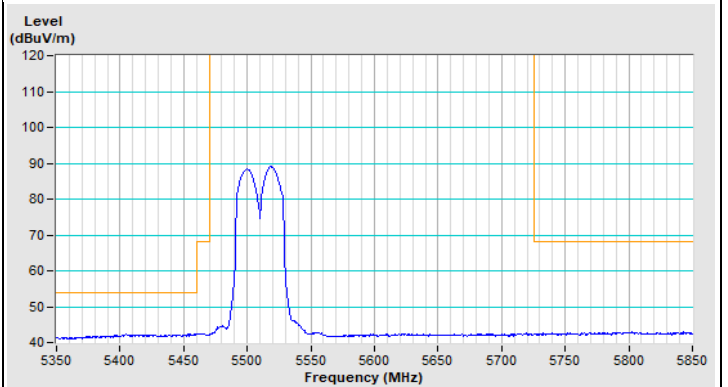
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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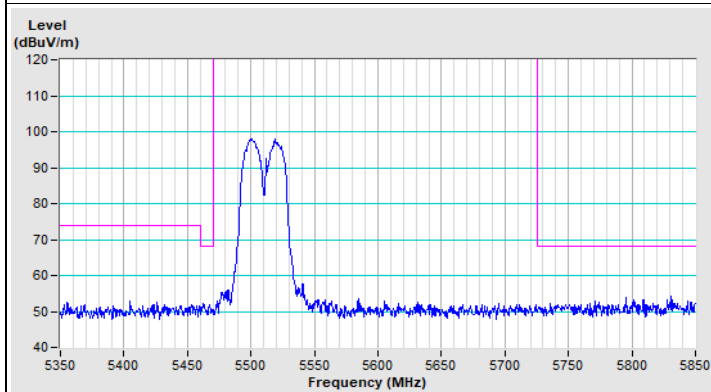
802.11ac (VHT40) Channel 102



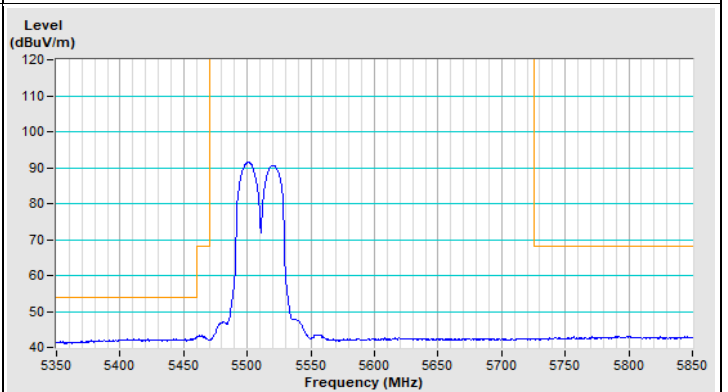
Horizontal (Peak)



Horizontal (Average)

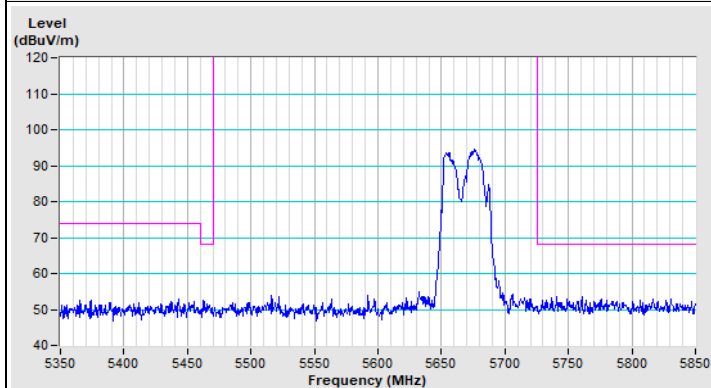


Vertical (Peak)

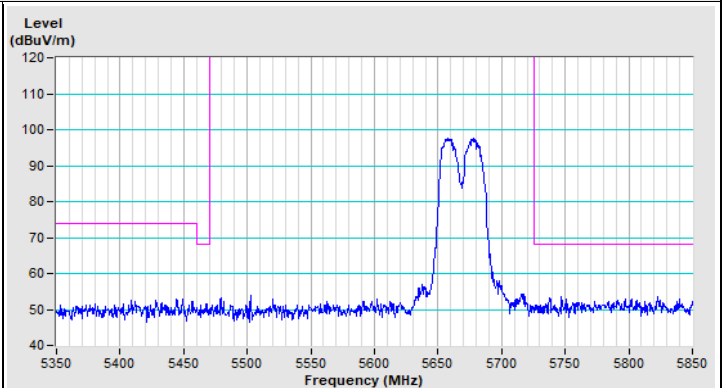


Vertical (Average)

802.11ac (VHT40) Channel 134



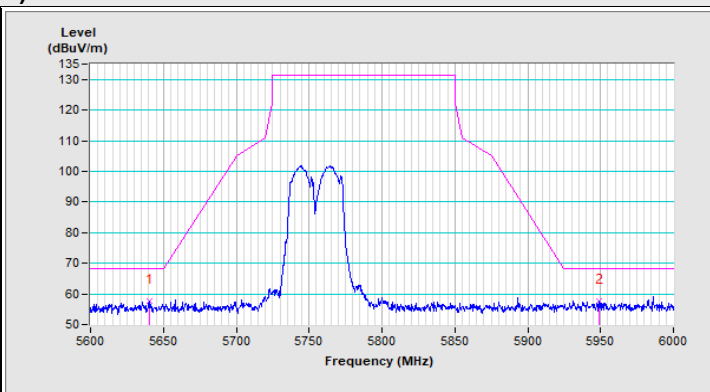
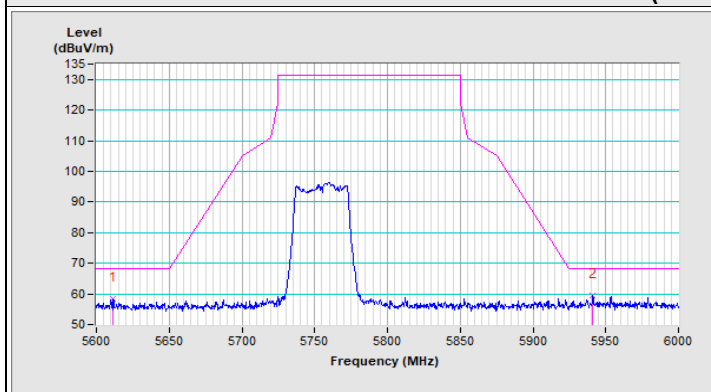
Horizontal (Peak)



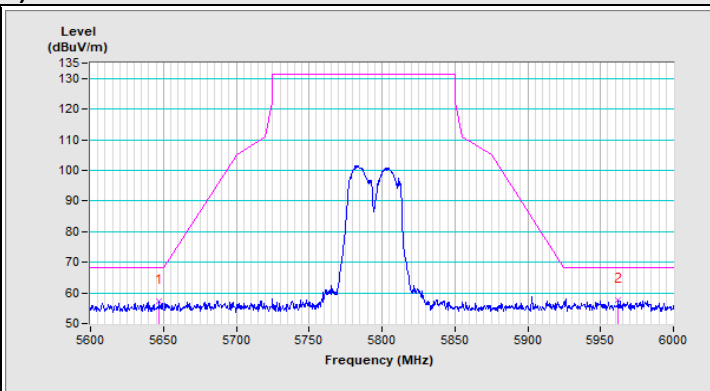
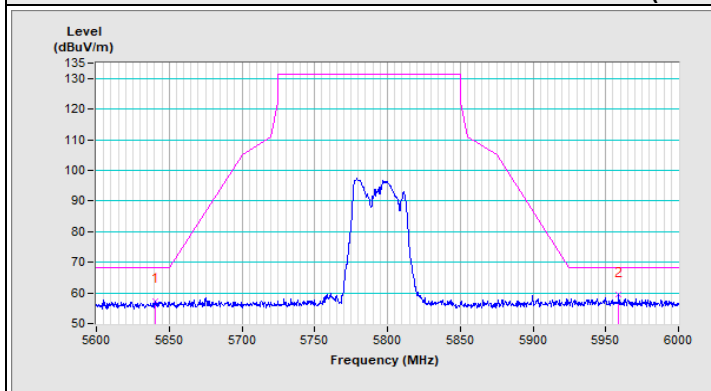
Vertical (Peak)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ac (VHT40) Channel 151

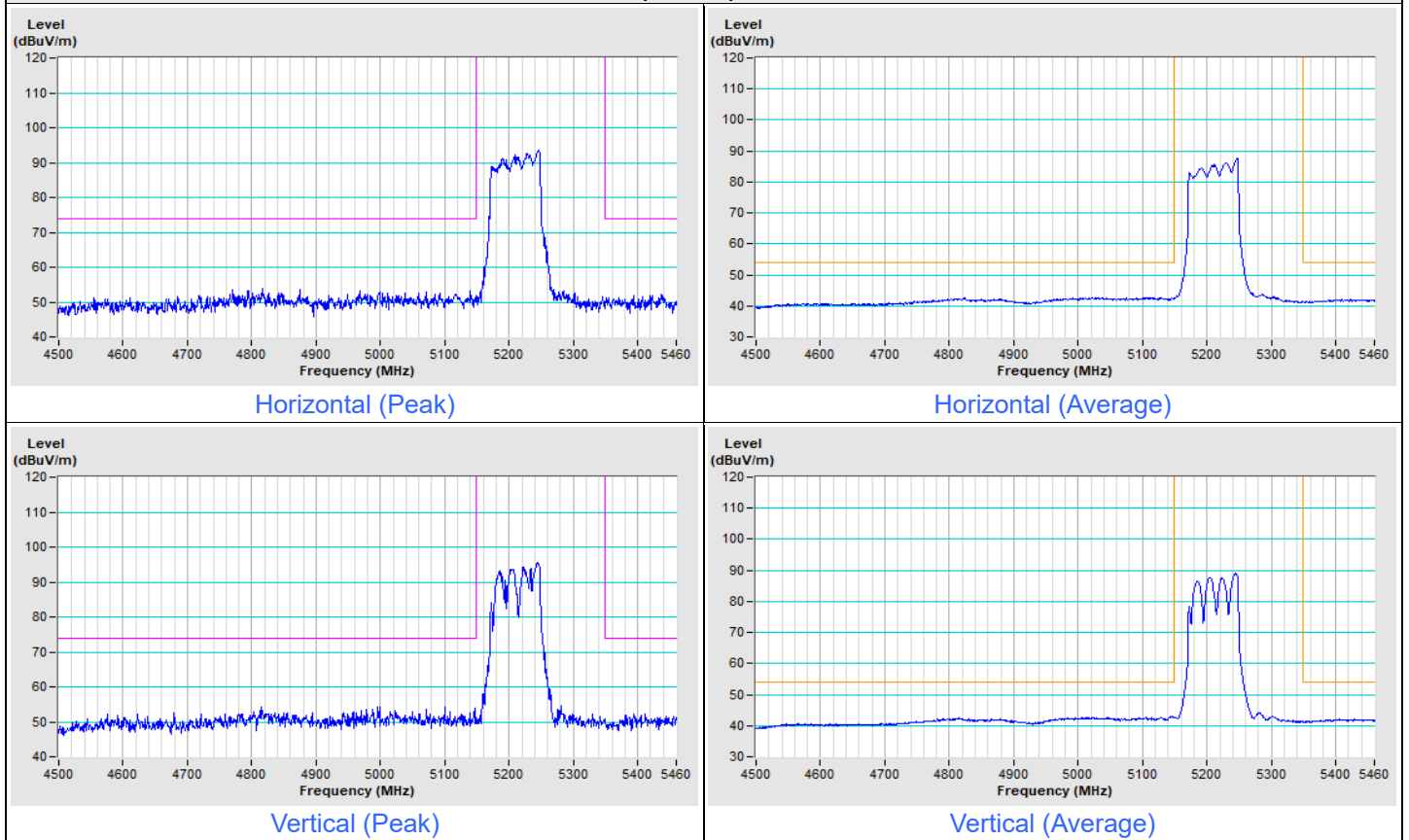


802.11ac (VHT40) Channel 159

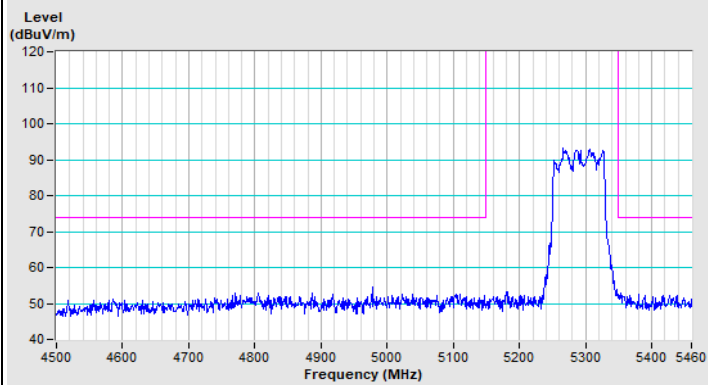


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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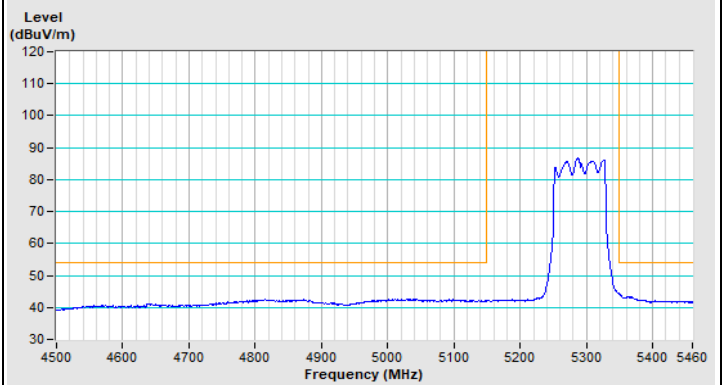
802.11ac (VHT80) Channel 42



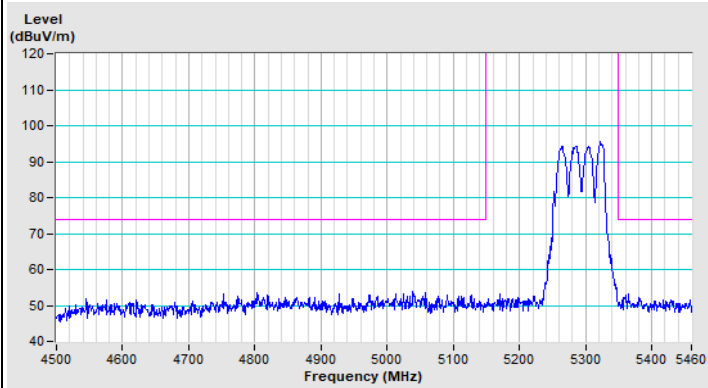
802.11ac (VHT80) Channel 58



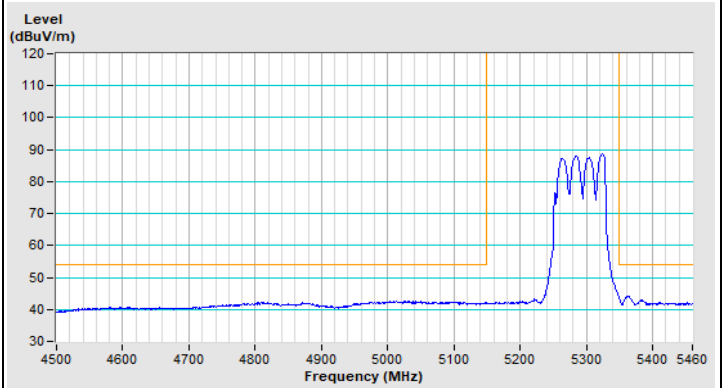
Horizontal (Peak)



Horizontal (Average)



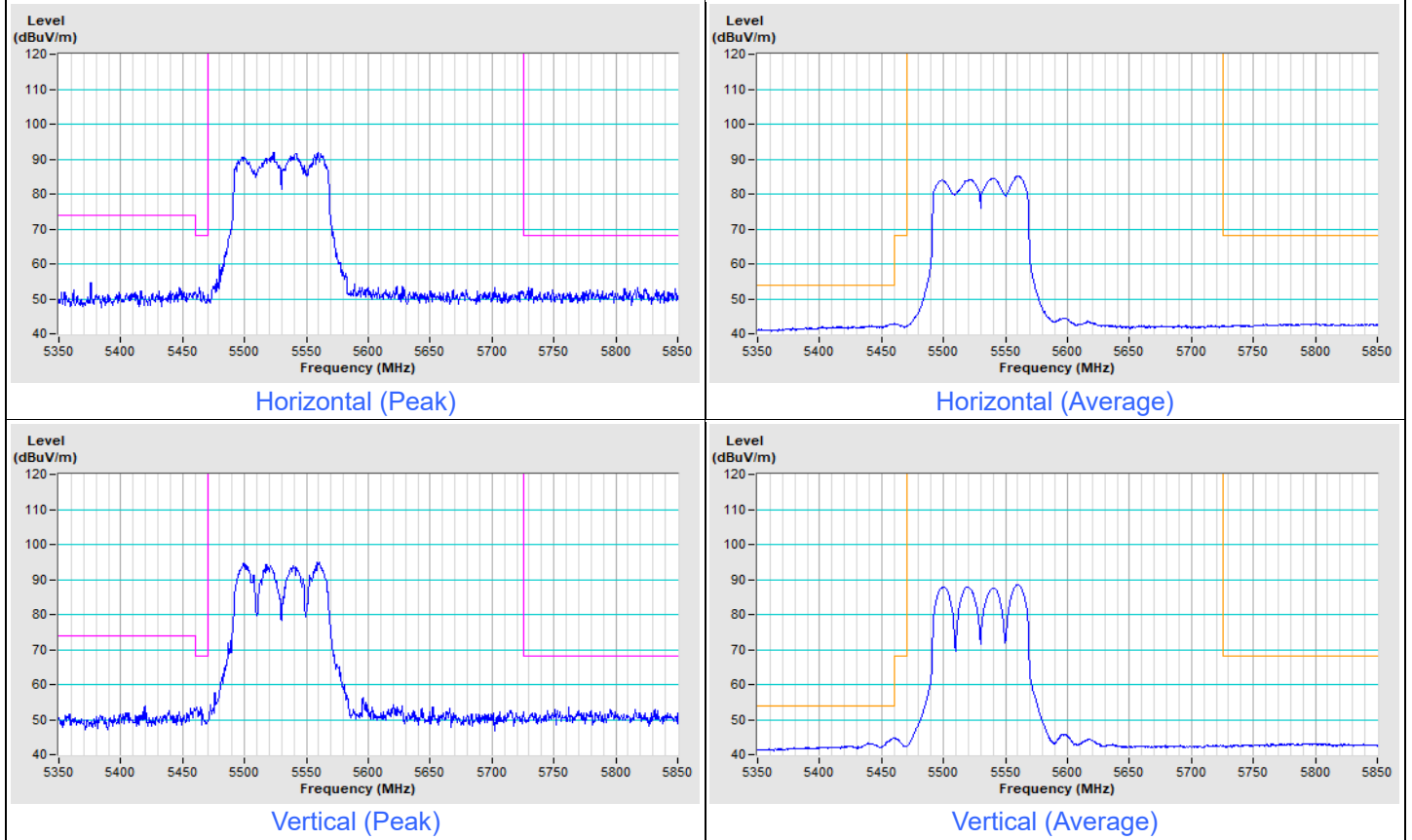
Vertical (Peak)



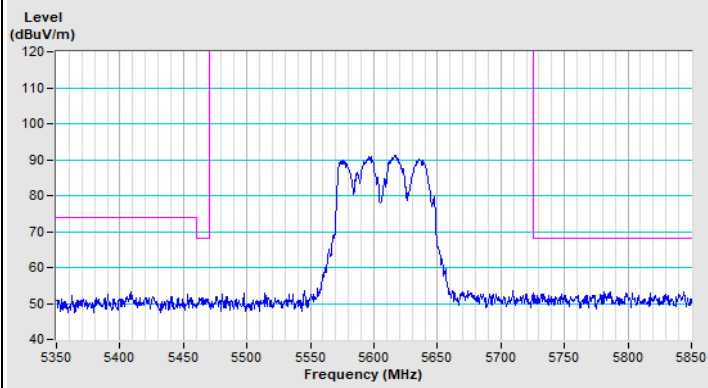
Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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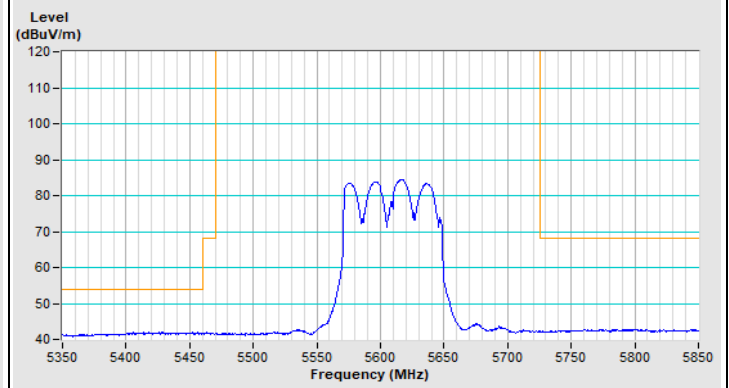
802.11ac (VHT80) Channel 106



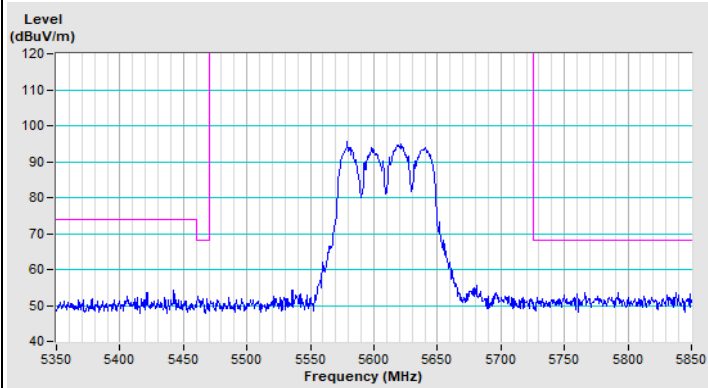
802.11ac (VHT80) Channel 122



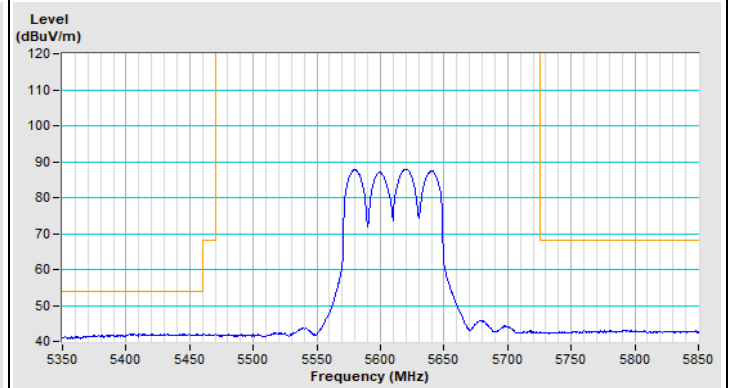
Horizontal (Peak)



Horizontal (Average)



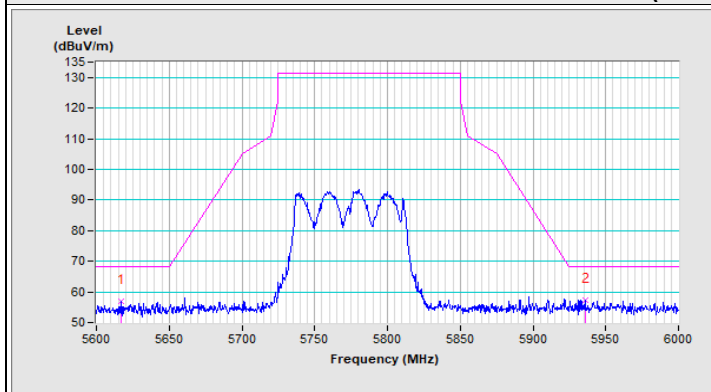
Vertical (Peak)



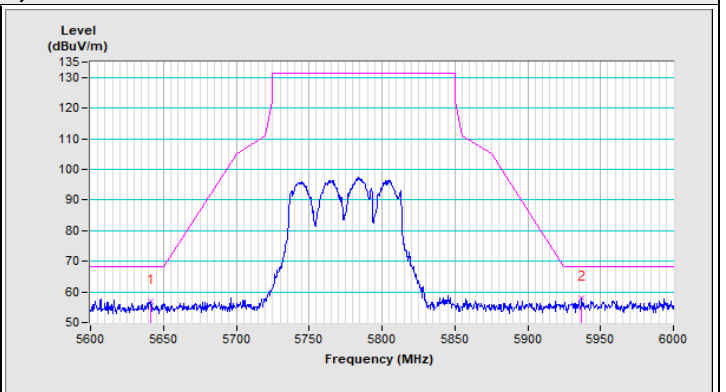
Vertical (Average)

Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ac (VHT80) Channel 155



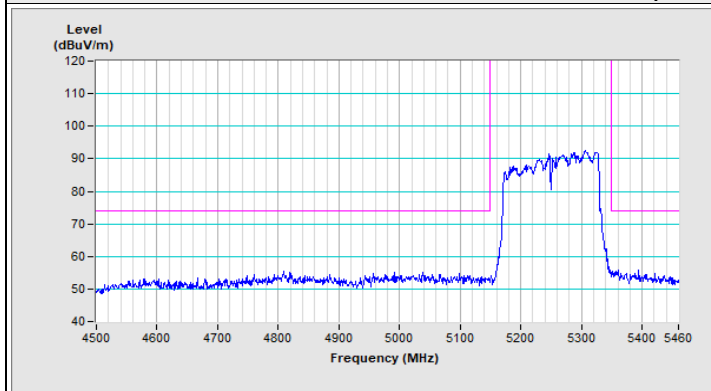
Horizontal (Peak)



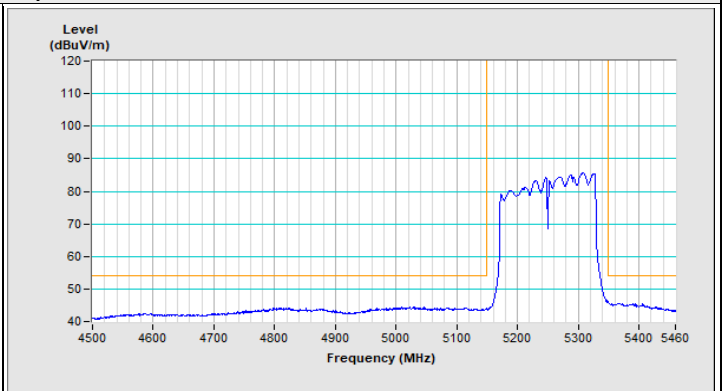
Vertical (Peak)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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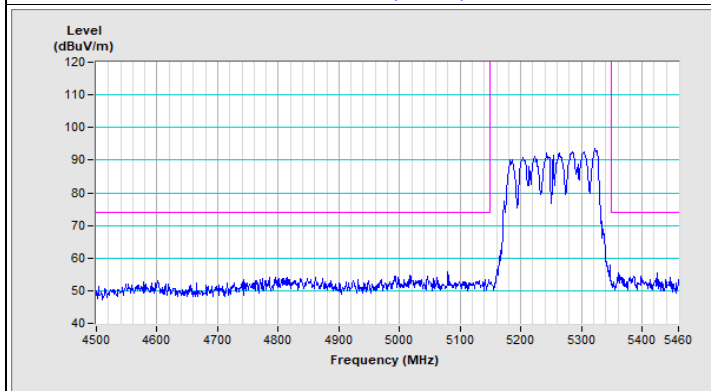
802.11ac (VHT160) Channel 50



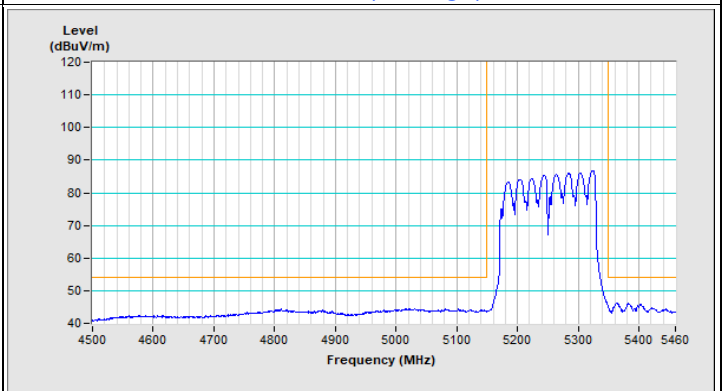
Horizontal (Peak)



Horizontal (Average)



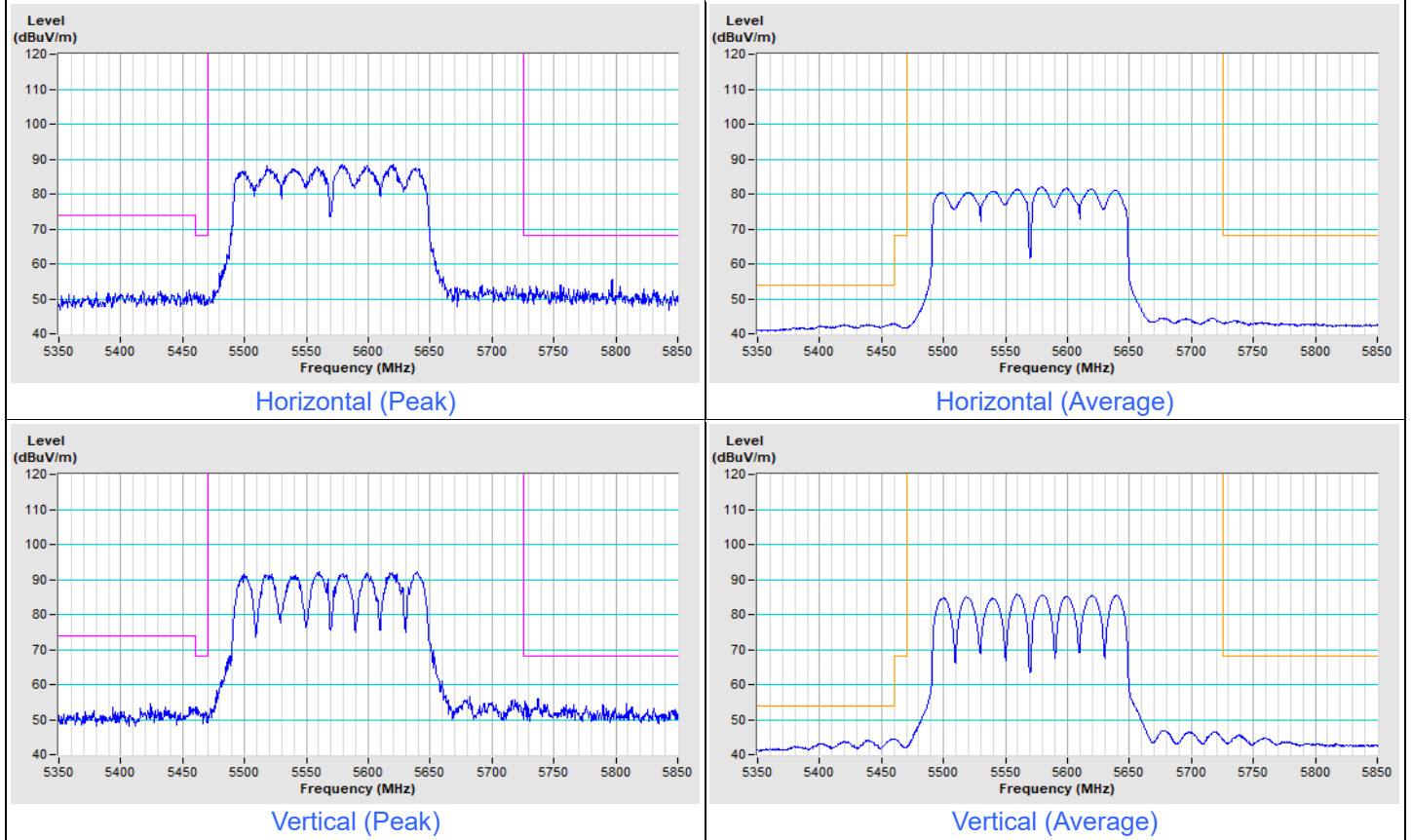
Vertical (Peak)



Vertical (Average)

Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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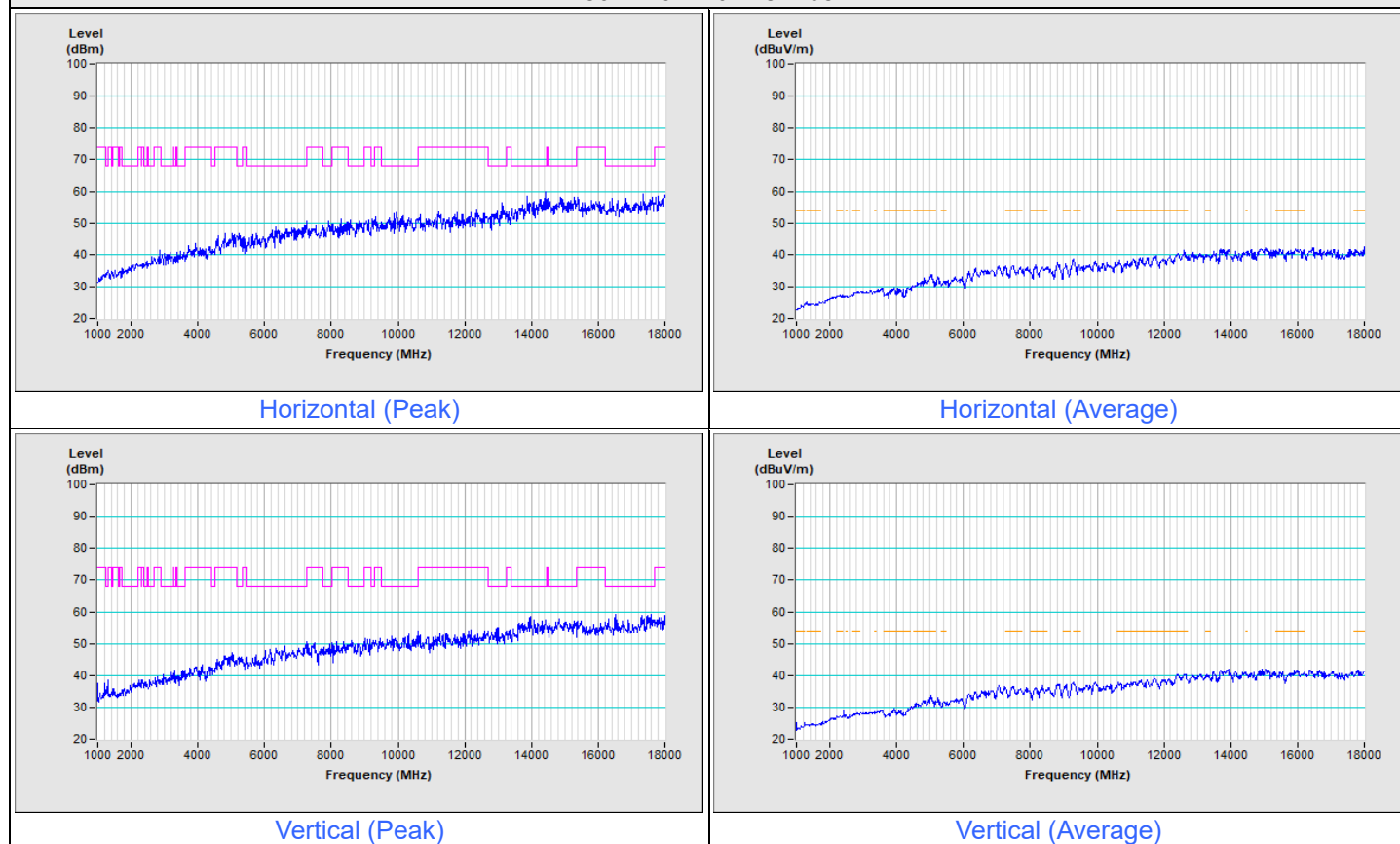
802.11ac (VHT160) Channel 114



Plot of Other Emission

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11a Channel 165

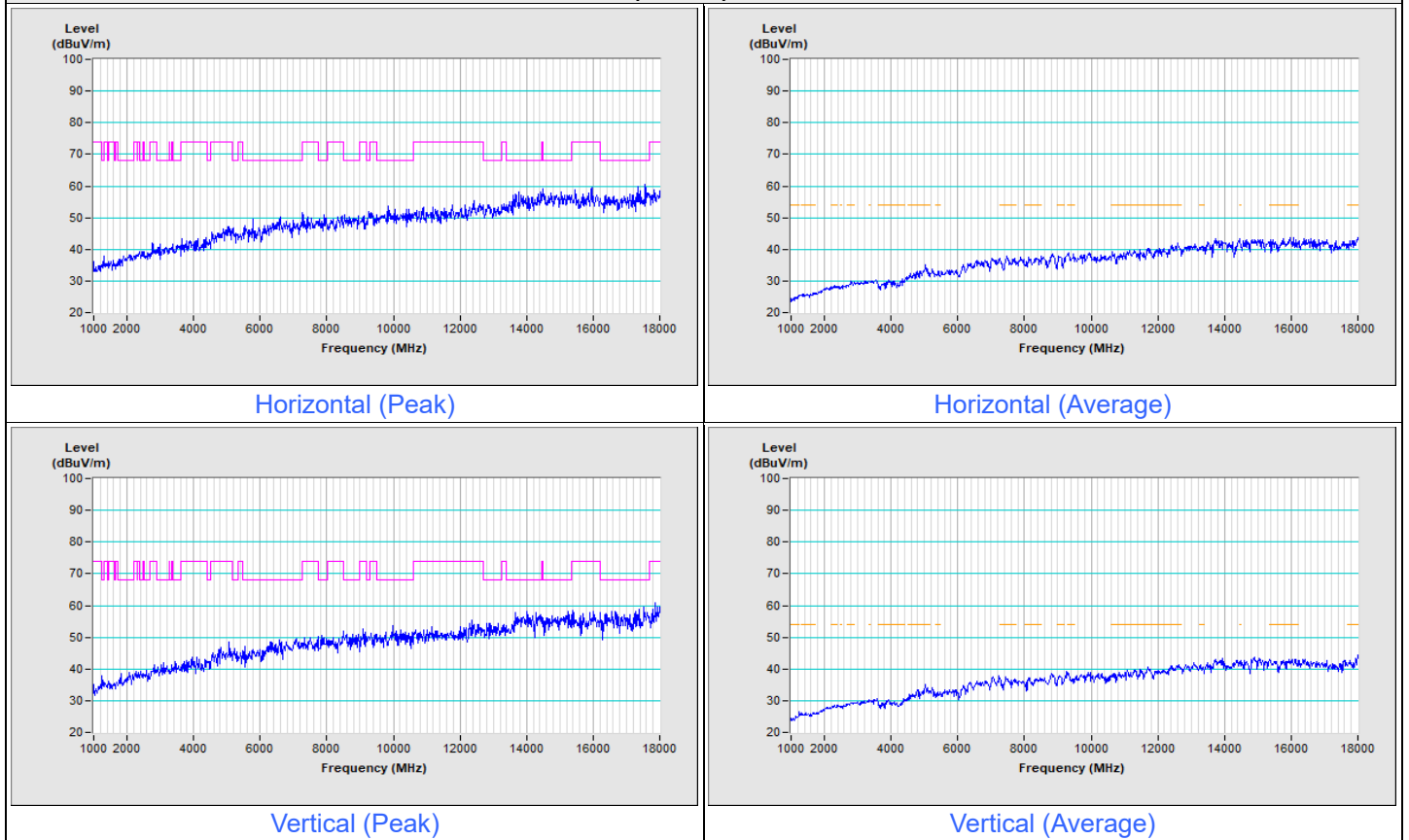


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ac (VHT20) Channel 157

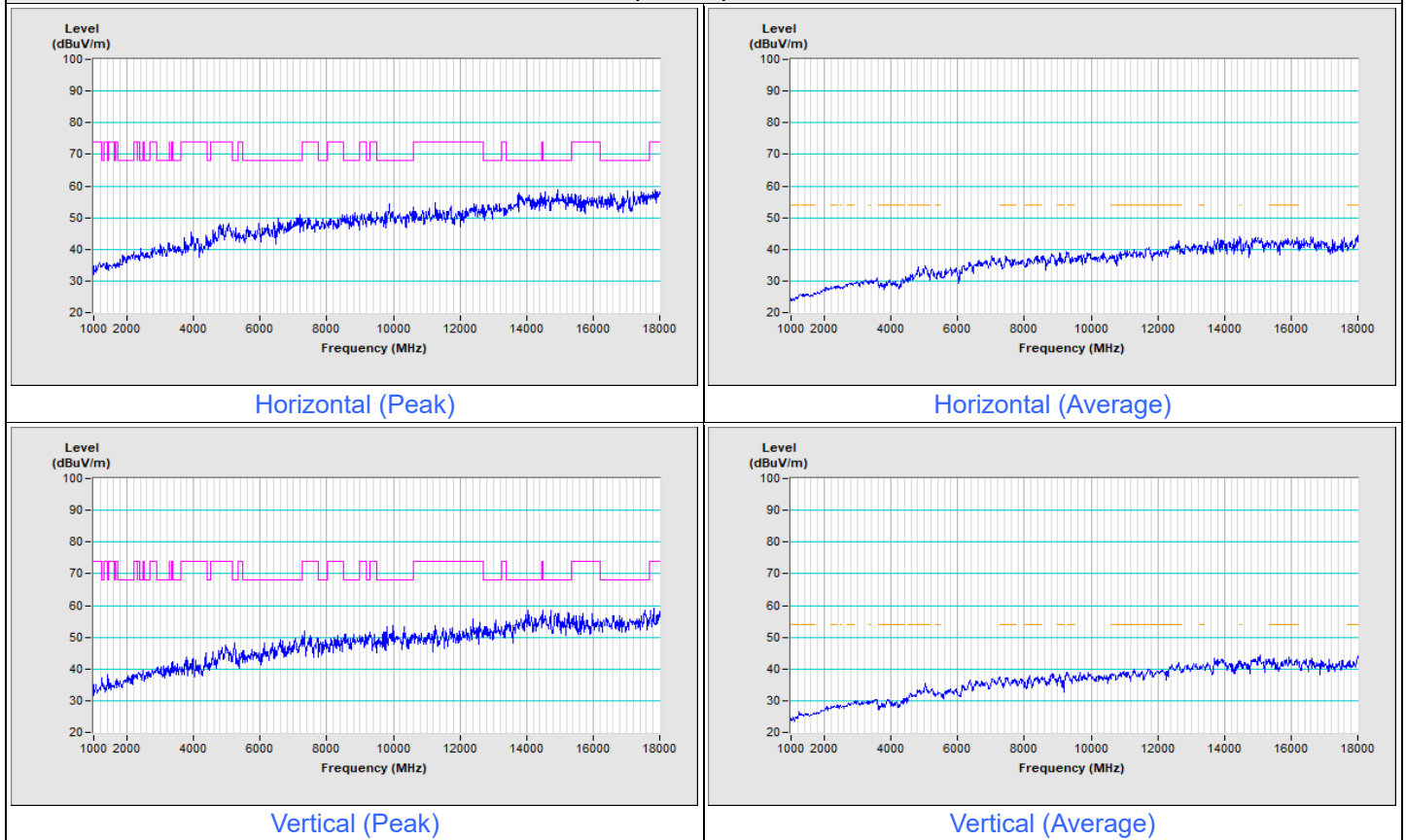


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ac (VHT40) Channel 151

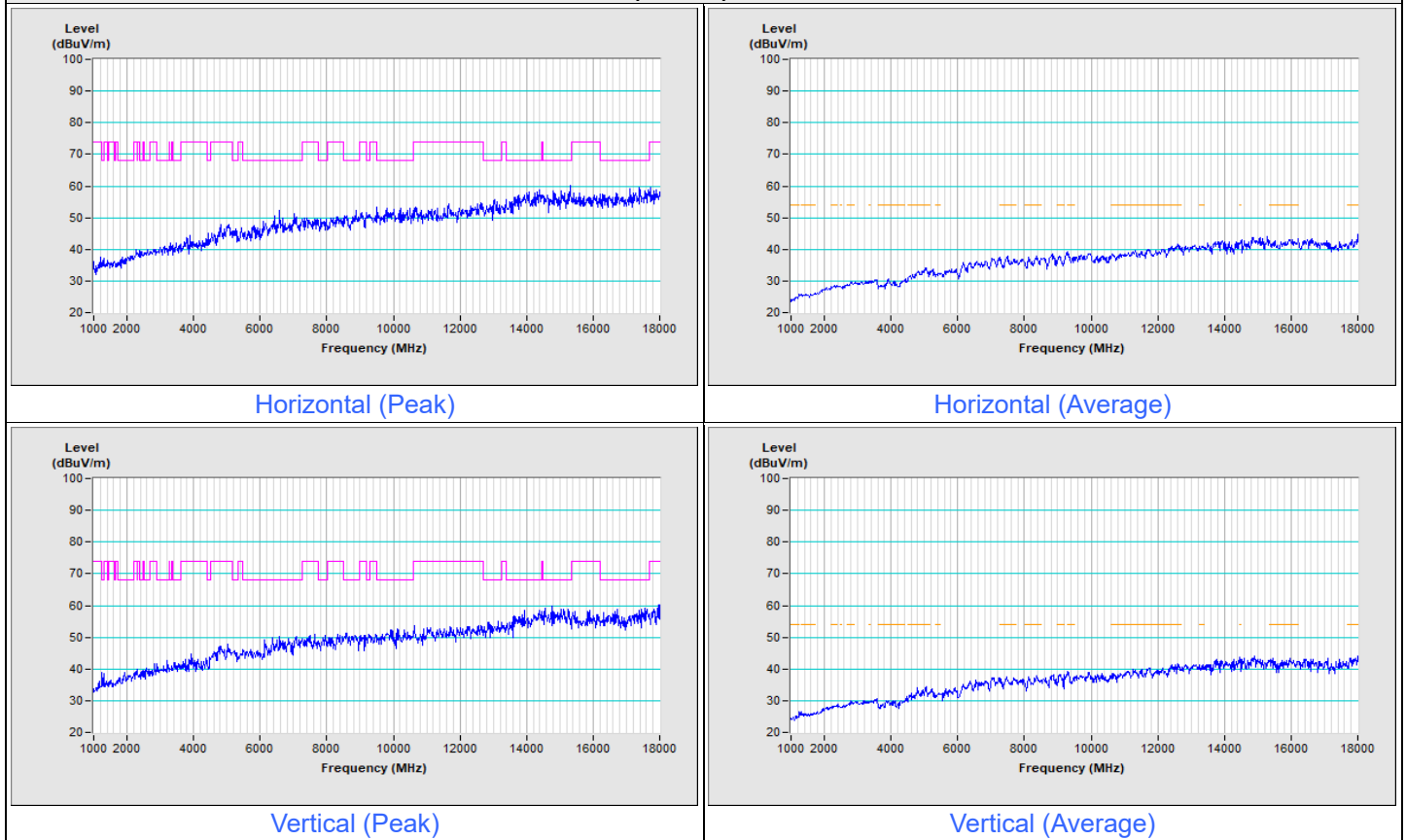


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ac (VHT80) Channel 155

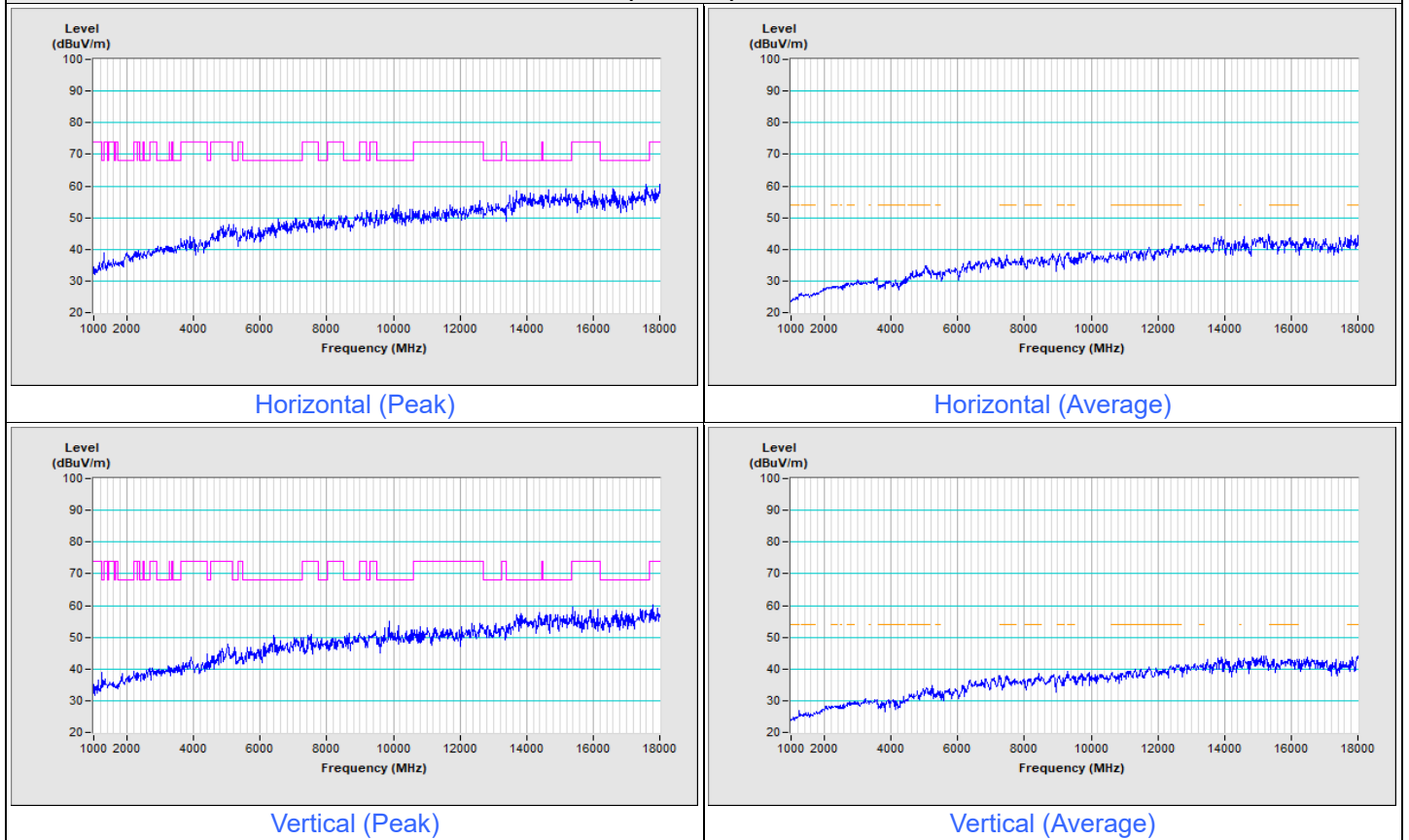


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ac (VHT160) Channel 114



Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

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Fax: 886-3-6668323

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Fax: 886-3-3270892

Email: service.adt@bureauveritas.com

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

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

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