

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFCJWN-WTW-P26010145-2

FCC ID: 2AEUP-5CFYA7

Product: Security Camera

Brand: ring

Model No.: 5CFYA7

Received Date: 2026/1/12

Test Date: 2026/1/23 ~ 2026/2/26

Issued Date: 2026/4/1

Applicant: Ring LLC

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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Test Location(2): No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan

FCC Registration / 281270 / TW0032 for Test Location(1)

Designation Number: 788550 / TW0003 for Test Location(2)

Approved by:



Date:

2026/4/1

Jeremy Lin / Project Engineer

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Prepared by : Gina Liu / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFCJWN-WTW-P26010145-2	Original release.	2026/4/1

1 Certificate

Product: Security Camera
Brand: ring
Test Model: 5CFYA7
Sample Status: Engineering sample
Applicant: Ring LLC
Test Date: 2026/1/23 ~ 2026/2/26
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	Pass	Minimum passing margin is -11.57 dB at 0.51800 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -8.9 dB at 30.00 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 -3.1 dB at 5150.00 MHz and 5350.00 MHz.
15.203	Antenna Requirement	Pass	Antenna connector is IPEX not a standard connector.

Notes:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. 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:

Parameter	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
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.88 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3 dB
	30 MHz ~ 1 GHz	2.93 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	Security Camera
Brand	ring
Test Model	5CFYA7
Status of EUT	Engineering sample
Power Supply Rating	USB TypeC input: 20Vdc, 65W POE IN: 48Vdc, 43W (802.3bt)
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	Up to 1733.3 Mbps
Operating Frequency	5.18 GHz ~ 5.25 GHz 5.25 GHz ~ 5.32 GHz 5.5 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6 802.11ac (VHT160), 802.11ax (HE160): 2
Output Power	5.18 GHz ~ 5.25 GHz: 234.204 mW (23.7 dBm) 5.25 GHz ~ 5.32 GHz: 234.989 mW (23.71 dBm) 5.5 GHz ~ 5.72 GHz: 203.954 mW (23.1 dBm) 5.745 GHz ~ 5.825 GHz: 418.363 mW (26.22 dBm)
EUT Category	Client device

Note:

1. The EUT contains following accessories.

Item	Brand	Model	Specification
Power Adapter	ring	6PFYA3	AC Input : 100-240Vac, 1.8A, 50/60Hz DC Output : 5.0Vdc, 3.0A, 15.0W / 9.0Vdc, 3.0A, 27.0W / 15.0Vdc, 3.0A, 45.0W / 20.0Vdc, 3.25A, 65.0W AC input Cable : Non-shielded 3-pin cable(2.2m) DC Output Cable: Shielded USB-C cable (1.65m)

2. There are Bluetooth LE, WLAN (2.4 GHz & 5 GHz) and LoRa technology used for the EUT.

3. Simultaneously transmission combination.

Combination	Technology		
1	WLAN (2.4 GHz) MIMO	LoRa	-
2	WLAN (5 GHz) MIMO	Bluetooth LE	LoRa

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

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Ant. No.	Antenna Type	Connector Type	Frequency range	Antenna Net Gain(dBi)
Wi-Fi 0	Dipole - Flex	IPEX	2.4~2.4835GHz	2.5
			5.15~5.25GHz	2.6
			5.25~5.35GHz	2.7
			5.47~5.725GHz	3.7
			5.725~5.85GHz	4.8
Wi-Fi 1	Dipole - Flex	IPEX	2.4~2.4835GHz	2.9
			5.15~5.25GHz	2
			5.25~5.35GHz	2.2
			5.47~5.725GHz	2.5
			5.725~5.85GHz	2.4

* 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

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 160 MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz, 160 MHz). Therefore, the investigated worst case is 802.11ac mode for 20 MHz (40 MHz, 80 MHz, 160 MHz) as the representative mode in test report.
4. The EUT does not use channel puncturing and bandwidth reduction.

3.3 Channel List

FOR 5180 ~ 5320 MHz

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

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

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

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

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

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

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

Channel	Frequency
50	5250 MHz

FOR 5500 ~ 5720 MHz

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

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

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

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

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

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

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

Channel	Frequency
114	5570 MHz

FOR 5745 ~ 5825 MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

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

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. 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. The EUT can be powered by following ways: Type-C with adapter / POE Adapter. Pre-scan these ways and find the worst case as a representative test condition. 3. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
Worst Case:	1. X-axis/ Y-axis/ Z-axis Worst Condition: Z-axis. 2. Worst Condition: EUT with Type-C with adapter.

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

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate
26 dB Bandwidth	802.11a	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11ac (VHT40)	CDD	54, 62, 102, 110, 134, 142	BPSK	MCS0
	802.11ac (VHT80)	CDD	58, 106, 122, 138	BPSK	MCS0
	802.11ac (VHT160)	CDD	50, 114	BPSK	MCS0
RF Output Power	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD & Beamforming	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD & Beamforming	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ac (VHT160)	CDD & Beamforming	50, 114	BPSK	MCS0
Power Spectral Density	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ac (VHT160)	CDD	50, 114	BPSK	MCS0
6 dB Bandwidth	802.11a	CDD	144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	155	BPSK	MCS0
Occupied Bandwidth	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ac (VHT160)	CDD	50, 114	BPSK	MCS0
AC Power Conducted Emissions	802.11ac (VHT80)	CDD	42	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ac (VHT80)	CDD	42	BPSK	MCS0

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate
Unwanted Emissions above 1 GHz	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ac (VHT160)	CDD	50, 114	BPSK	MCS0

3.5 Duty Cycle of Test Signal

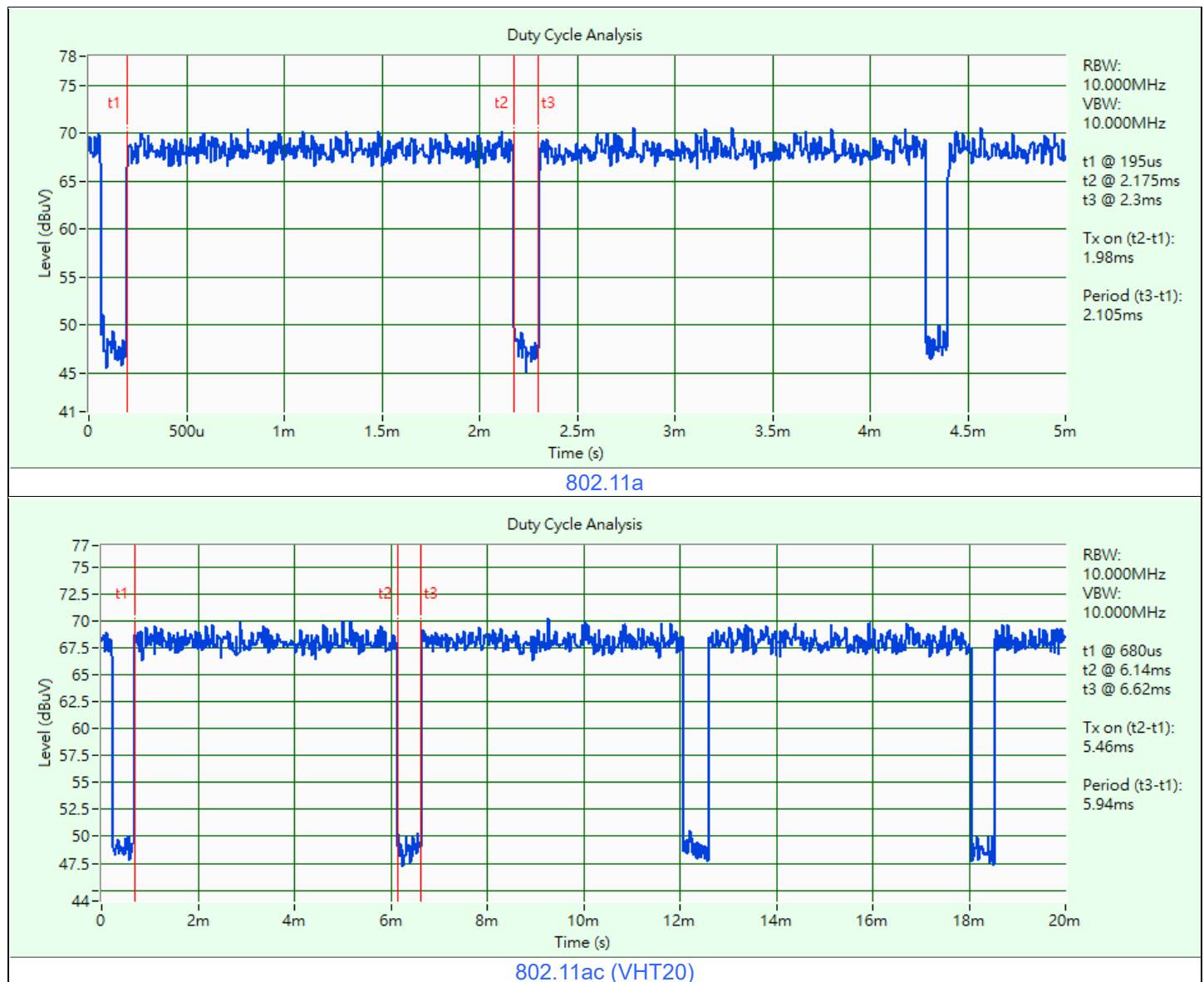
802.11a: Duty cycle = 1.98 ms / 2.105 ms x 100% = 94.1%, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.27 \text{ dB}$

802.11ac (VHT20): Duty cycle = 5.46 ms / 5.94 ms x 100% = 91.9%, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.37 \text{ dB}$

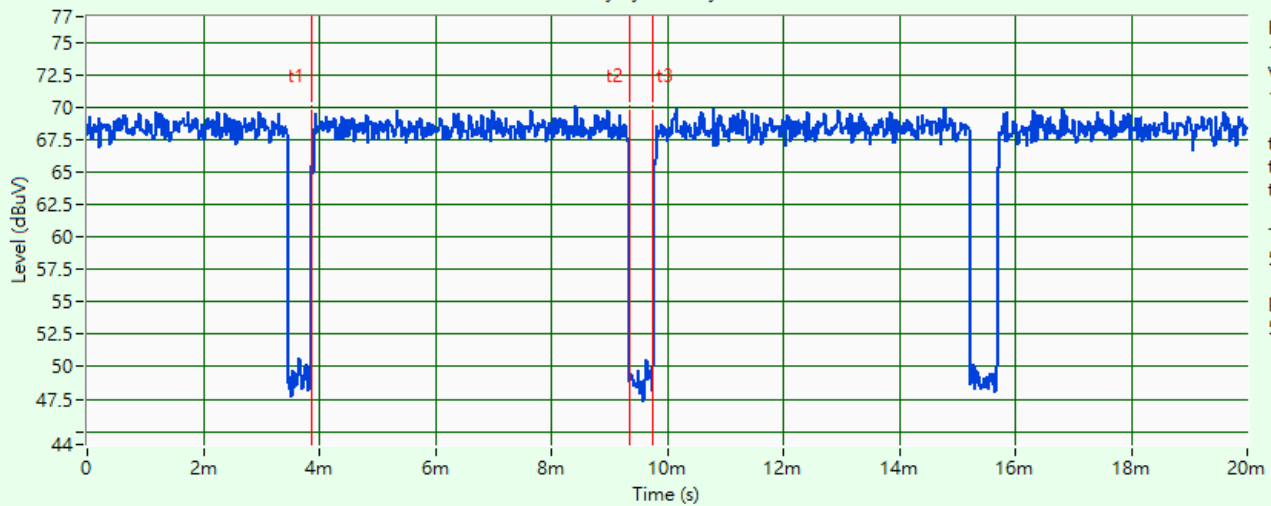
802.11ac (VHT40): Duty cycle = 5.46 ms / 5.88 ms x 100% = 92.9%, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.32 \text{ dB}$

802.11ac (VHT80): Duty cycle = 5.44 ms / 5.94 ms x 100% = 91.6%, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.38 \text{ dB}$

802.11ac (VHT160): Duty cycle = 5.46 ms / 5.92 ms x 100% = 92.2%, duty factor = $10 * \log (1/\text{Duty cycle}) = 0.35 \text{ dB}$

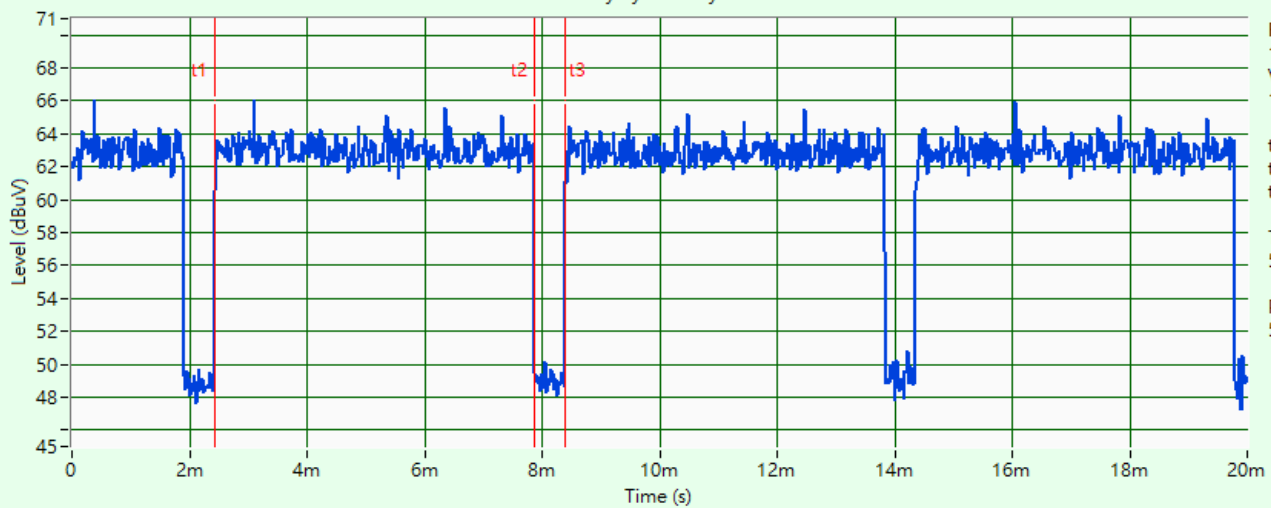


Duty Cycle Analysis



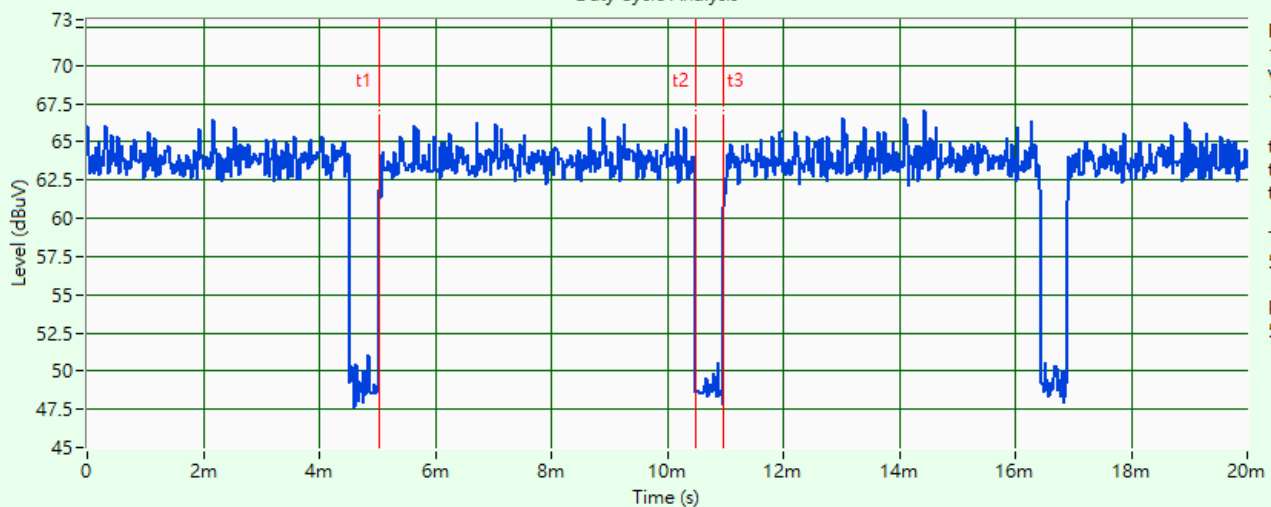
802.11ac (VHT40)

Duty Cycle Analysis



802.11ac (VHT80)

Duty Cycle Analysis

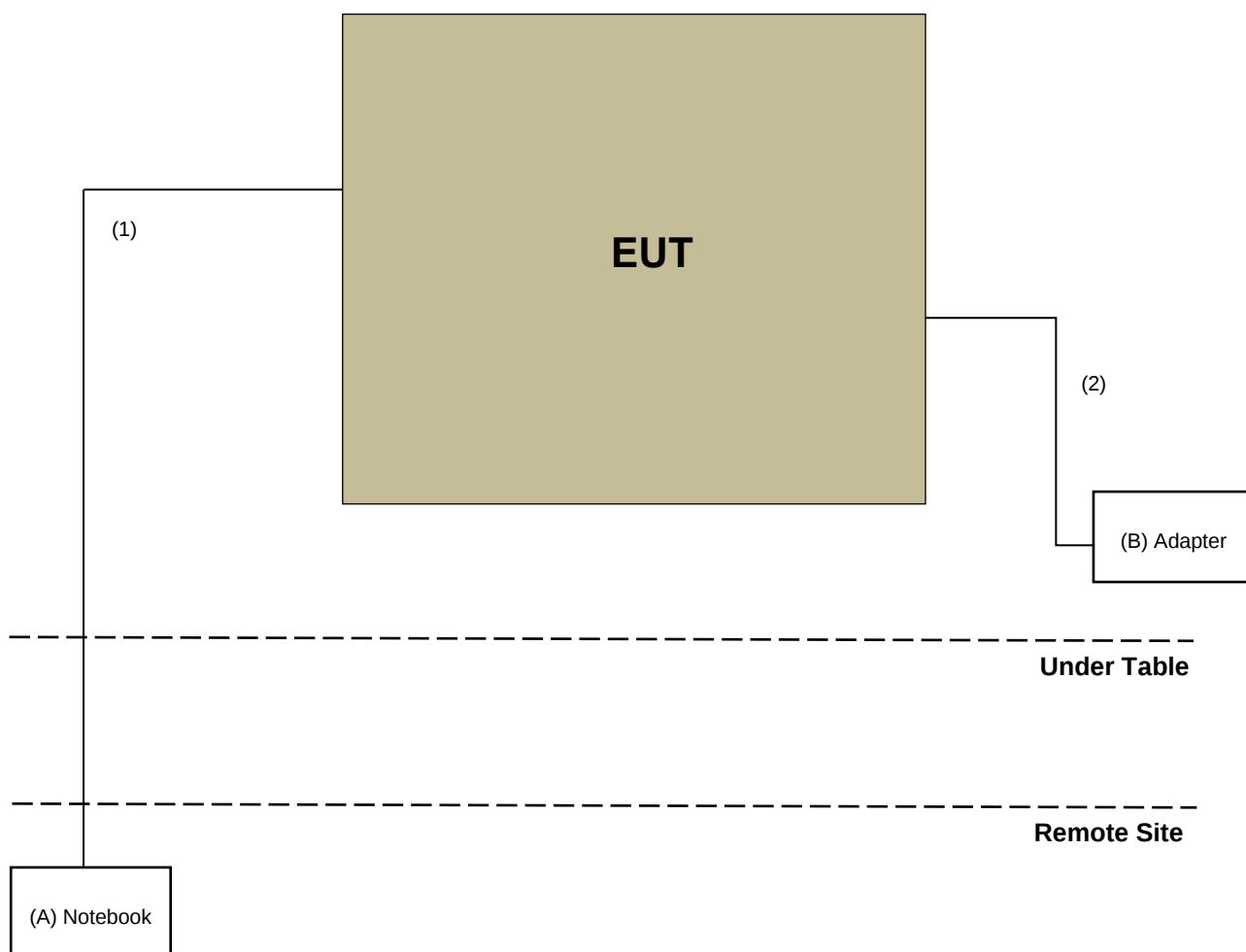


802.11ac (VHT160)

3.6 Test Program Used and Operation Descriptions

Controlling software QRCT version 4.0.210.0 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	Notebook	Lenovo	L470	NA	NA	Provided by Lab
B	Adapter	ring	6PFYA3	NA	NA	Accessory of EUT

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ-45 Cable	1	10	No	0	Provided by Lab
2	DC output Cable	1	1.65	Yes	0	Accessory of EUT

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: 2026/1/26 ~ 2026/1/27

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: 2026/1/26 ~ 2026/2/6

4.3 Power Spectral Density

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: 2026/1/26 ~ 2026/2/6

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 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance HUBER+SUHNER	E1-011276	01	2025/2/11	2026/2/10
	E1-011277	02	2025/10/31	2026/10/30
	E1-011313	11	2025/2/11	2026/2/10
DC LISN Schwarzbeck	NNBM 8126G	8126G-069	2025/11/3	2026/11/2
Diode Pulse Limiter Schwarzbeck	VTSD 9561 F-N	01445	2025/4/27	2026/4/26
EMI Test Receiver R&S	ESCI	100613	2025/11/27	2026/11/26
LISN R&S	ENV216	101826	2025/3/24	2026/3/23
	ESH3-Z5	100311	2025/8/28	2026/8/27
RF Coaxial Cable Woken	5D-FB	Cable-cond1-01	2026/1/3	2027/1/2
Software BVADT	BVADT_Conc_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2025/8/27	2026/8/26

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2026/1/27

4.7 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1213	2025/9/18	2026/9/17
Loop Antenna TESEQ	HLA 6121	45745	2025/9/1	2026/8/31
MXE EMI Receiver Keysight	N9038B	MY60180019	2026/1/14	2027/1/13
Preamplifier EMCI	EMC330N	980782	2026/1/13	2027/1/12
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201233	2026/1/13	2027/1/12
	EMCCFD400-NM-NM-3000	201235	2026/1/13	2027/1/12
	EMCCFD400-NM-NM-9000	201236(with PAD)	2026/1/13	2027/1/12
Signal & Spectrum Analyzer R&S	FSW43	101867	2025/2/18	2026/2/17
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8(Wenming).
2. Tested Date: 2026/1/27

4.8 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Horn Antenna RFSPIN	DRH18-E	210103A18E	2025/11/9	2026/11/8
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2025/11/9	2026/11/8
MXE EMI Receiver Keysight	N9038B	MY60180019	2026/1/14	2027/1/13
Preamplifier EMCI	EMC118A45SE	980808	2025/12/24	2026/12/23
	EMC184045SE	980788	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	210102	2026/1/13	2027/1/12
	EMC104-SM-SM-3000	201231	2026/1/13	2027/1/12
	EMC104-SM-SM-9000	201243	2026/1/13	2027/1/12
Signal & Spectrum Analyzer R&S	FSW43	101867	2025/2/18	2026/2/17
			2026/2/11	2027/2/10
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8(Wenming).
2. Tested Date: 2026/1/23 ~ 2026/2/26

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 AC Power Conducted Emissions

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

Notes:

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

5.7 Unwanted Emissions below 1 GHz

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

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

Notes:

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

5.8 Unwanted Emissions above 1 GHz

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

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

Notes:

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

Limits of unwanted emission out of the restricted bands

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

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

^{*1} beyond 75 MHz or more above of the band edge.

^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

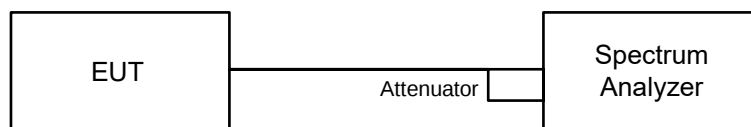
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

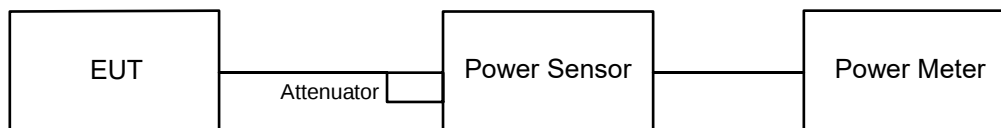


6.1.2 Test Procedure

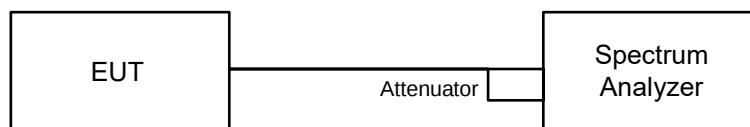
- Set RBW = shall be in the range of 1% to 5% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = peak.
- Trace mode = max-hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and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

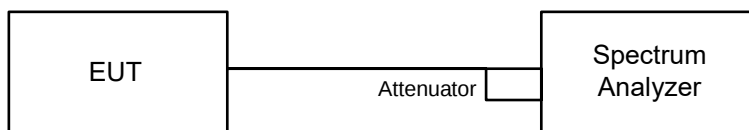
Method SA-2A

- Measure the duty cycle of the transmitter output signal.
- 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.)
- Manually set sweep time $\geq [10 \times (\text{number of points in sweep}) \times (\text{total ON/OFF period of the transmitted signal})]$.
- Perform a single sweep.
- 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 and add $10 \log (1/\text{duty cycle})$.

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-2

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

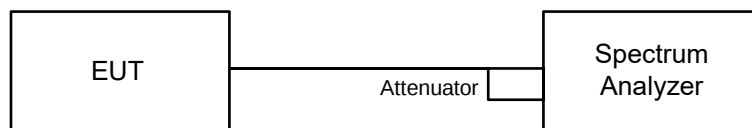
For specified measurement bandwidth 500 kHz:

Method SA-2

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

6.4 6 dB Bandwidth

6.4.1 Test Setup

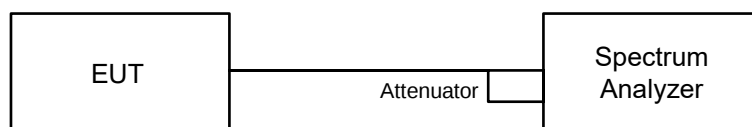


6.4.2 Test Procedure

- 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



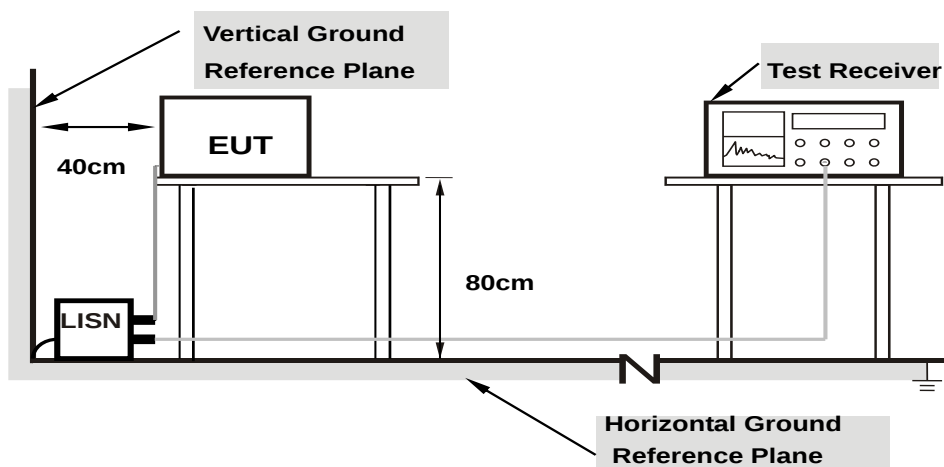
6.5.2 Test Procedure

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 AC Power Conducted Emissions

6.6.1 Test Setup



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

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

6.6.2 Test Procedure

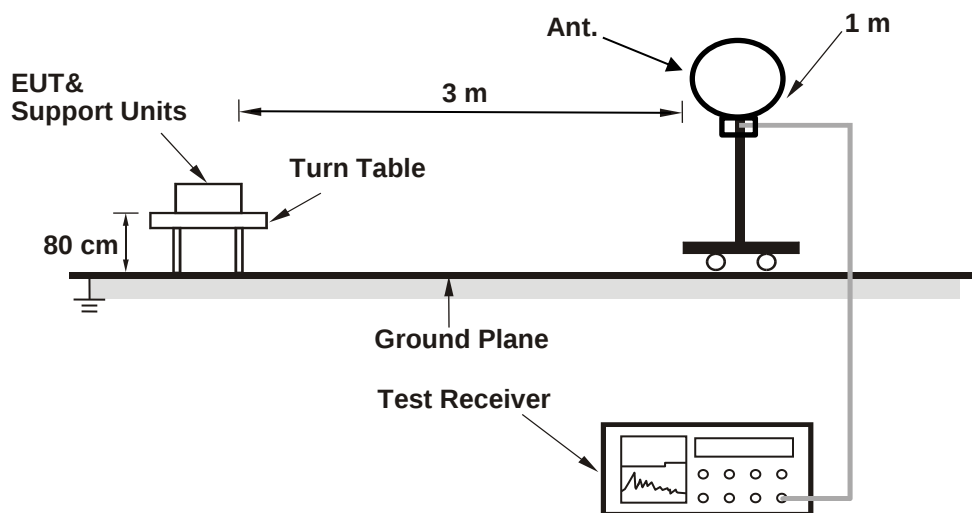
- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

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

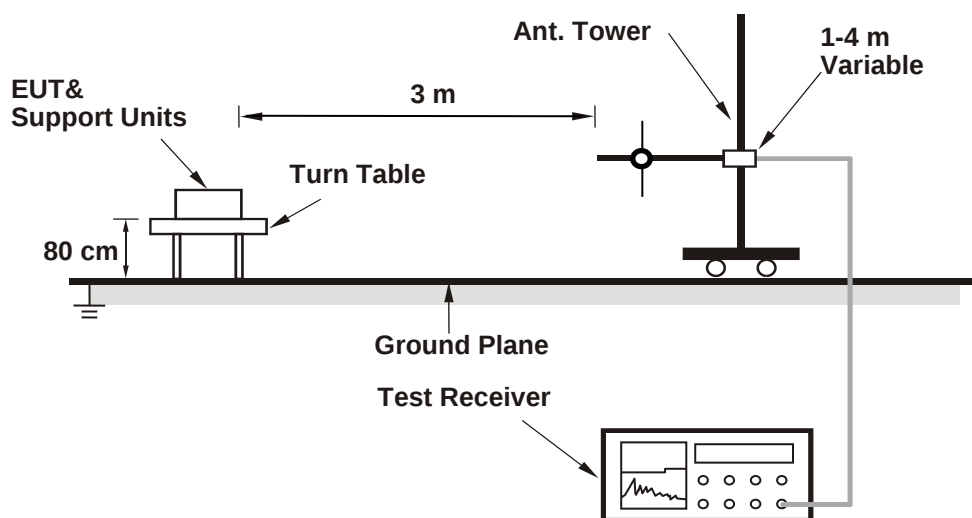
6.7 Unwanted Emissions below 1 GHz

6.7.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.7.2 Test Procedure

For Radiated emission below 30 MHz

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

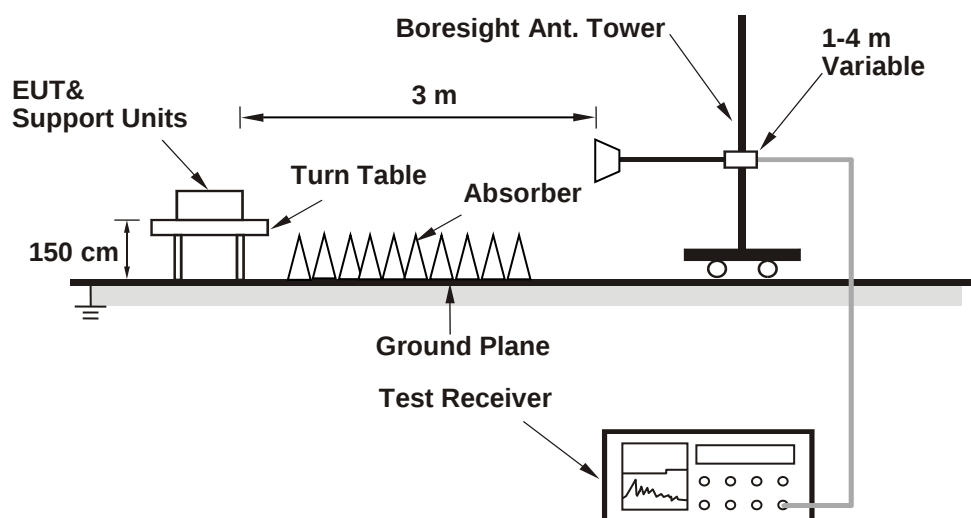
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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.

6.8 Unwanted Emissions above 1 GHz

6.8.1 Test Setup



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

6.8.2 Test Procedure

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

Notes:

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

7 Test Results of Test Item

7.1 26 dB Bandwidth

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	18.69	19.02
60	5300	19.67	18.85
64	5320	18.87	19.00
100	5500	18.71	19.01
116	5580	19.51	18.93
140	5700	18.90	18.86
144 (U-NII-2C)	5720	14.40	14.49
144 (U-NII-3)	5720	4.37	4.34

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	18.69	23.71	<	24
60	5300	18.85	23.75	<	24
64	5320	18.87	23.75	<	24
100	5500	18.71	23.72	<	24
116	5580	18.93	23.77	<	24
140	5700	18.86	23.75	<	24
144 (U-NII-2C)	5720	14.40	22.58	<	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	20.73	21.20
60	5300	20.60	20.86
64	5320	21.03	21.21
100	5500	21.03	20.92
116	5580	20.93	21.16
140	5700	20.90	21.18
144 (U-NII-2C)	5720	15.34	15.57
144 (U-NII-3)	5720	5.49	5.27

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	20.73	24.16	>	24
60	5300	20.60	24.13	>	24
64	5320	21.03	24.22	>	24
100	5500	20.92	24.2	>	24
116	5580	20.93	24.2	>	24
140	5700	20.90	24.2	>	24
144 (U-NII-2C)	5720	15.34	22.85	<	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	39.37	39.49
62	5310	39.37	39.50
102	5510	39.52	39.37
110	5550	39.59	39.58
134	5670	39.47	39.36
142 (U-NII-2C)	5710	34.75	34.73
142 (U-NII-3)	5710	4.92	4.84

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
54	5270	39.37	26.95	>	24
62	5310	39.37	26.95	>	24
102	5510	39.37	26.95	>	24
110	5550	39.58	26.97	>	24
134	5670	39.36	26.95	>	24
142 (U-NII-2C)	5710	34.73	26.4	>	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	81.34	80.97
106	5530	81.35	81.34
122	5610	81.12	81.49
138 (U-NII-2C)	5690	75.51	75.83
138 (U-NII-3)	5690	5.84	5.59

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
58	5290	80.97	30.08	>	24
106	5530	81.34	30.1	>	24
122	5610	81.12	30.09	>	24
138 (U-NII-2C)	5690	75.51	29.78	>	24

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

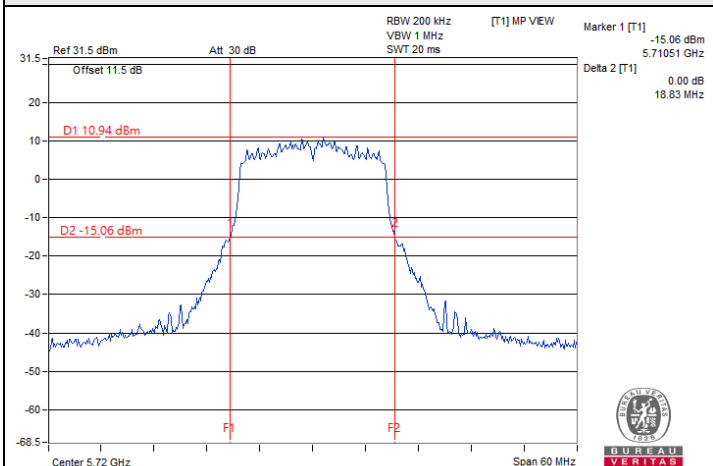
802.11ac (VHT160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	82.48	83.58
50 (U-NII-2A)	5250	82.44	82.56
114	5570	164.93	164.74

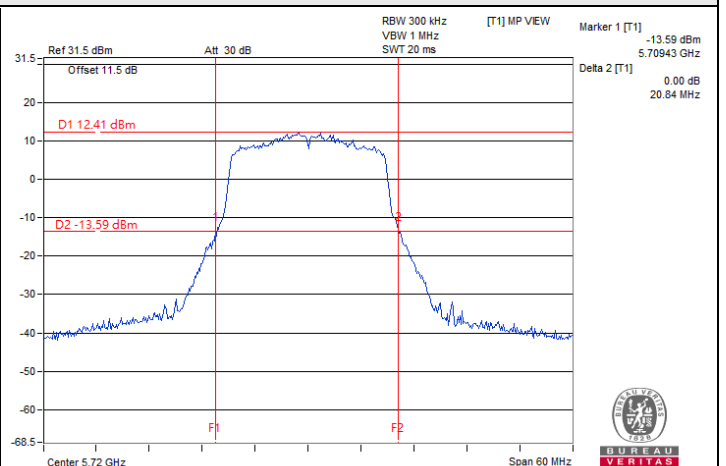
Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
50 (U-NII-2A)	5250	82.44	30.16	>	24
114	5570	164.74	33.16	>	24

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

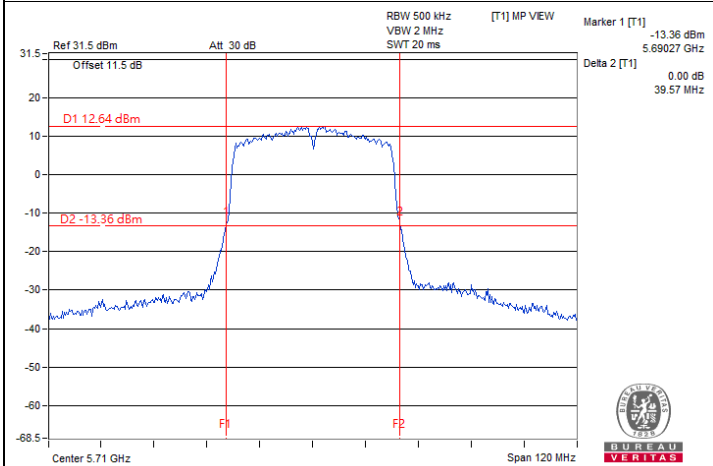
Spectrum Plot of Minimum Value



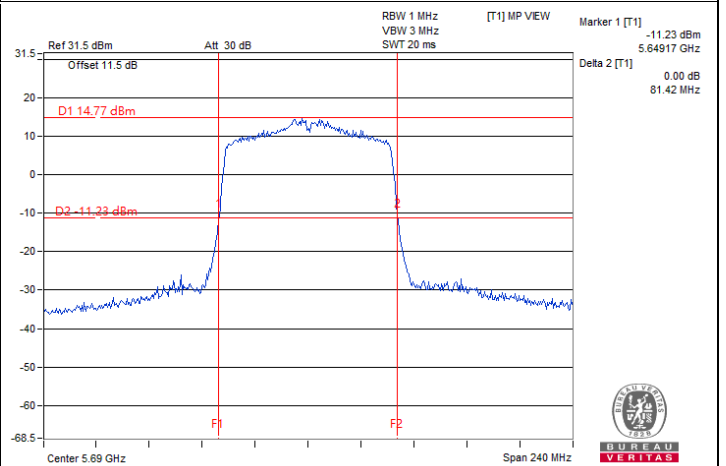
802.11a / Chain 1: CH 144 (U-NII-3)



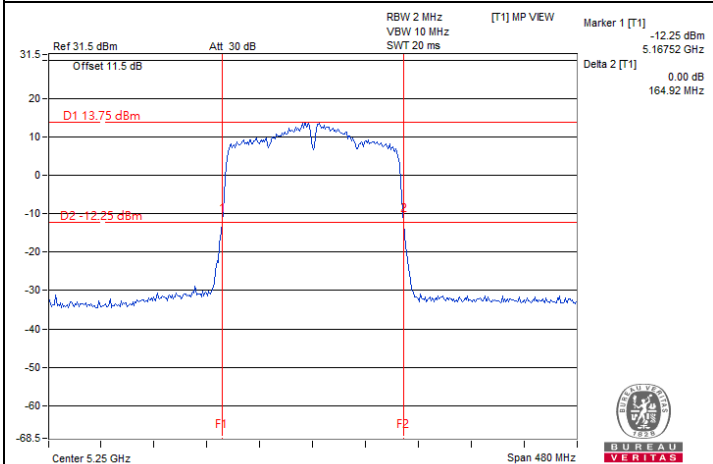
802.11ac (VHT20) / Chain 1: CH 144 (U-NII-3)



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



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



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

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

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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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	19.69	19.53	182.854	22.62	24	Pass
40	5200	19.63	19.57	182.407	22.61	24	Pass
48	5240	19.66	19.39	179.366	22.54	24	Pass
52	5260	19.69	19.36	179.409	22.54	23.71	Pass
60	5300	19.76	19.36	180.922	22.57	23.75	Pass
64	5320	19.70	19.57	183.899	22.65	23.75	Pass
100	5500	19.42	19.28	172.221	22.36	23.72	Pass
116	5580	19.53	19.23	173.496	22.39	23.77	Pass
140	5700	19.48	19.28	173.438	22.39	23.75	Pass
*144 (U-NII-2C)	5720	18.30	18.16	141.473	21.51	22.58	Pass
*144 (U-NII-3)	5720	10.38	10.28	22.943	13.61	30	Pass
149	5745	22.85	22.74	380.684	25.81	30	Pass
157	5785	22.67	22.55	364.814	25.62	30	Pass
165	5825	22.21	21.86	319.803	25.05	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.6 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 2.7 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.7 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.8 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	19.74	19.62	185.811	22.69	24	Pass
40	5200	19.67	19.67	185.366	22.68	24	Pass
48	5240	19.75	19.49	183.326	22.63	24	Pass
52	5260	19.82	19.47	184.452	22.66	24	Pass
60	5300	19.84	19.41	183.68	22.64	24	Pass
64	5320	19.77	19.74	189.031	22.77	24	Pass
100	5500	19.65	19.53	182	22.60	24	Pass
116	5580	19.72	19.47	182.268	22.61	24	Pass
140	5700	19.70	19.49	182.246	22.61	24	Pass
*144 (U-NII-2C)	5720	18.34	18.23	146.608	21.66	22.85	Pass
*144 (U-NII-3)	5720	11.09	10.74	26.883	14.29	30	Pass
149	5745	22.86	22.72	380.265	25.80	30	Pass
157	5785	22.68	22.62	368.163	25.66	30	Pass
165	5825	22.17	21.88	318.986	25.04	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.6 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 2.7 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.7 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.8 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	19.83	19.48	184.877	22.67	24	Pass
46	5230	20.76	20.61	234.204	23.70	24	Pass
54	5270	20.74	20.66	234.989	23.71	24	Pass
62	5310	19.87	19.75	191.457	22.82	24	Pass
102	5510	20.09	20.03	202.787	23.07	24	Pass
110	5550	20.10	20.07	203.954	23.10	24	Pass
134	5670	20.12	19.93	201.203	23.04	24	Pass
*142 (U-NII-2C)	5710	19.53	19.18	185.809	22.69	24	Pass
*142 (U-NII-3)	5710	7.37	6.48	10.666	10.28	30	Pass
151	5755	23.25	23.16	418.363	26.22	30	Pass
159	5795	23.07	22.58	383.902	25.84	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.6 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 2.7 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.7 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.8 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	19.76	19.54	184.573	22.66	24	Pass
58	5290	19.55	19.41	177.454	22.49	24	Pass
106	5530	20.20	19.86	201.541	23.04	24	Pass
122	5610	20.25	19.84	202.308	23.06	24	Pass
*138 (U-NII-2C)	5690	19.44	19.10	184.735	22.67	24	Pass
*138 (U-NII-3)	5690	2.11	1.41	3.286	5.17	30	Pass
155	5775	21.79	21.23	283.747	24.53	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.6 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 2.7 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.7 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.8 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	15.44	15.36	75.193	18.76	24	Pass
*50 (U-NII-2A)	5250	15.06	14.85	67.887	18.32	24	Pass
114	5570	18.33	17.94	130.307	21.15	24	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.6 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 2.7 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.7 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	19.74	19.62	185.811	22.69	24	Pass
40	5200	19.67	19.67	185.366	22.68	24	Pass
48	5240	19.75	19.49	183.326	22.63	24	Pass
52	5260	18.32	17.97	130.582	21.16	24	Pass
60	5300	18.34	17.91	130.036	21.14	24	Pass
64	5320	18.27	18.24	133.824	21.27	24	Pass
100	5500	17.65	17.53	114.834	20.60	23.87	Pass
116	5580	17.72	17.47	115.003	20.61	23.87	Pass
140	5700	17.70	17.49	114.989	20.61	23.87	Pass
*144 (U-NII-2C)	5720	17.34	17.23	116.455	20.66	22.72	Pass
*144 (U-NII-3)	5720	10.09	9.74	21.354	13.29	29.31	Pass
149	5745	22.86	22.72	380.265	25.80	29.31	Pass
157	5785	22.68	22.62	368.163	25.66	29.31	Pass
165	5825	22.17	21.88	318.986	25.04	29.31	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}})^2 / 2]$
- For U-NII-1, the directional gain is 5.32 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.46 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 6.13 dBi $>$ 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.13-6)].
- For U-NII-3, the directional gain is 6.69 dBi $>$ 6 dBi, so the output power limit shall be reduced to $30-(6.69-6) = 29.31$ dBm.

802.11ac (VHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	19.83	19.48	184.877	22.67	24	Pass
46	5230	20.76	20.61	234.204	23.70	24	Pass
54	5270	18.24	18.16	132.144	21.21	24	Pass
62	5310	18.37	18.25	135.541	21.32	24	Pass
102	5510	17.59	17.53	114.036	20.57	23.87	Pass
110	5550	17.60	17.57	114.692	20.60	23.87	Pass
134	5670	17.62	17.43	113.145	20.54	23.87	Pass
*142 (U-NII-2C)	5710	17.03	16.68	104.488	20.19	23.87	Pass
*142 (U-NII-3)	5710	4.87	3.98	5.998	7.78	29.31	Pass
151	5755	23.25	23.16	418.363	26.22	29.31	Pass
159	5795	23.07	22.58	383.902	25.84	29.31	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 5.32 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.46 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 6.13 dBi $>$ 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.13-6)].
- For U-NII-3, the directional gain is 6.69 dBi $>$ 6 dBi, so the output power limit shall be reduced to $30-(6.69-6) = 29.31$ dBm.

802.11ac (VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	19.76	19.54	184.573	22.66	24	Pass
58	5290	18.52	18.38	139.987	21.46	24	Pass
106	5530	17.70	17.36	113.335	20.54	23.87	Pass
122	5610	17.75	17.34	113.766	20.56	23.87	Pass
*138 (U-NII-2C)	5690	16.94	16.60	103.884	20.17	23.87	Pass
*138 (U-NII-3)	5690	-0.39	-1.09	1.8477	2.67	29.31	Pass
155	5775	21.79	21.23	283.747	24.53	29.31	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 5.32 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.46 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 6.13 dBi $>$ 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.13-6)].
- For U-NII-3, the directional gain is 6.69 dBi $>$ 6 dBi, so the output power limit shall be reduced to $30-(6.69-6) = 29.31$ dBm.

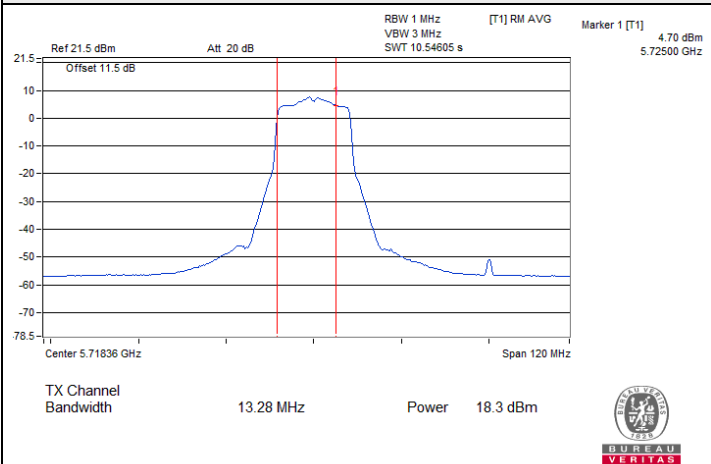
802.11ac (VHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	14.94	14.86	67.016	18.26	24	Pass
*50 (U-NII-2A)	5250	14.56	14.35	60.504	17.82	24	Pass
114	5570	17.83	17.44	116.136	20.65	23.87	Pass

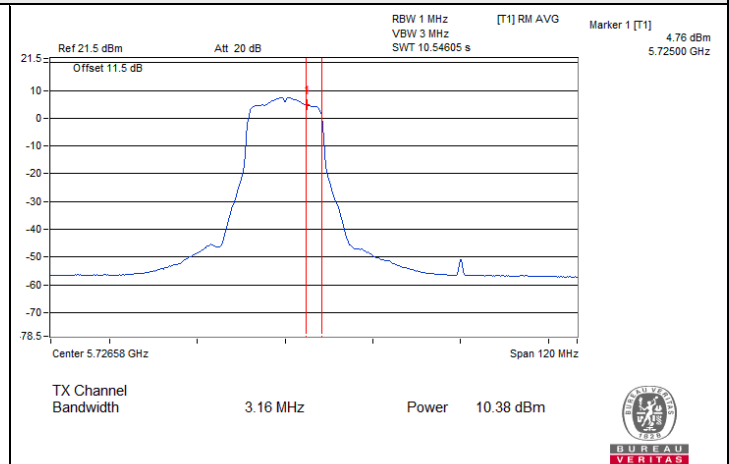
Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 5.32 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.46 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 6.13 dBi $>$ 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.13-6)].

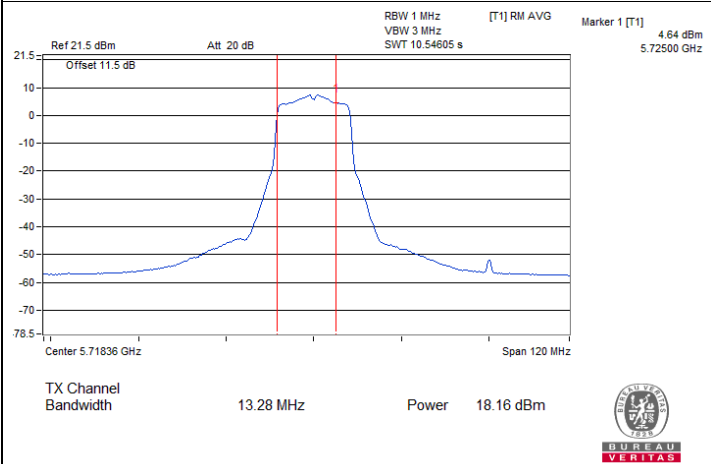
Spectrum Plot for channel straddling



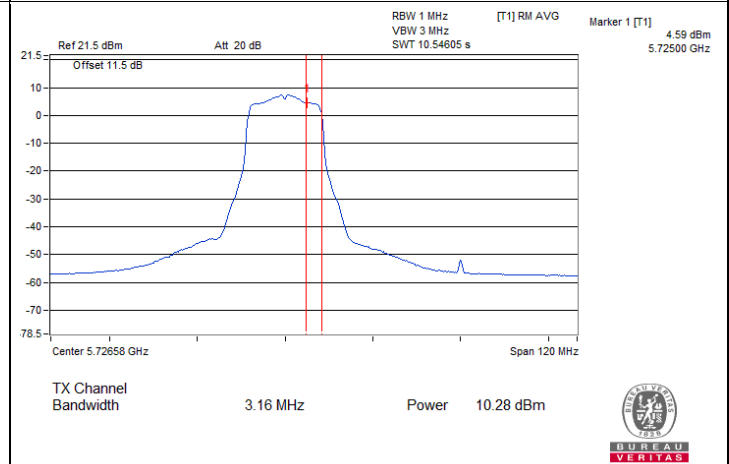
802.11a / Chain 0: CH 144 (U-NII-2C)



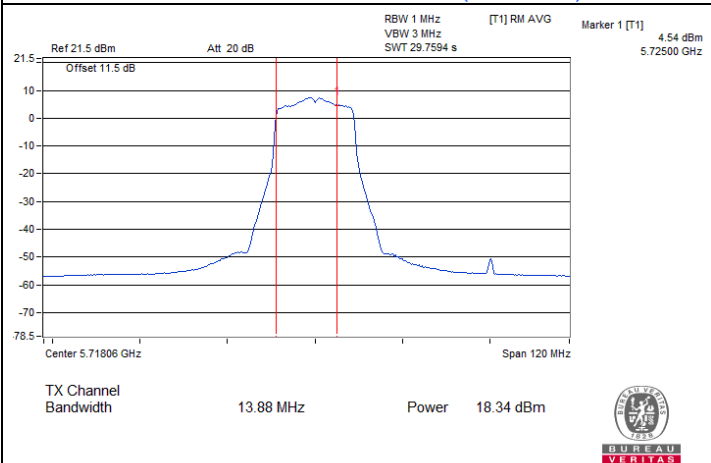
802.11a / Chain 0: CH 144 (U-NII-3)



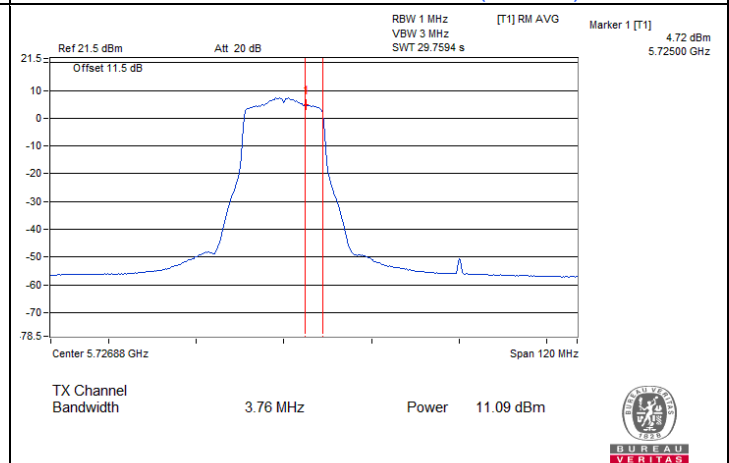
802.11a / Chain 1: CH 144 (U-NII-2C)



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

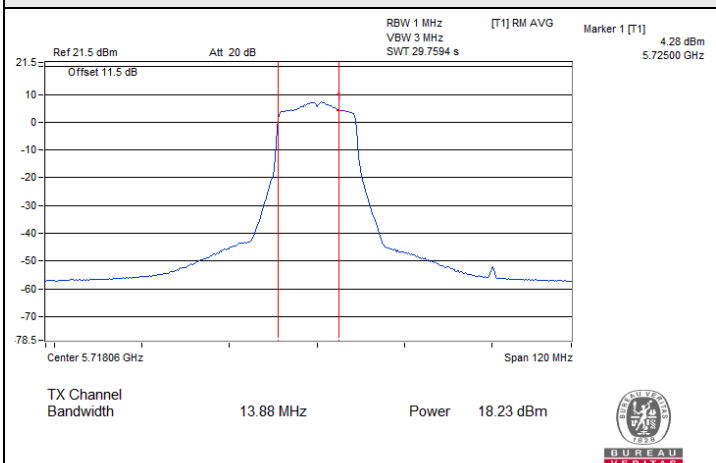


802.11ac (VHT20) / Chain 0: CH 144 (U-NII-2C)

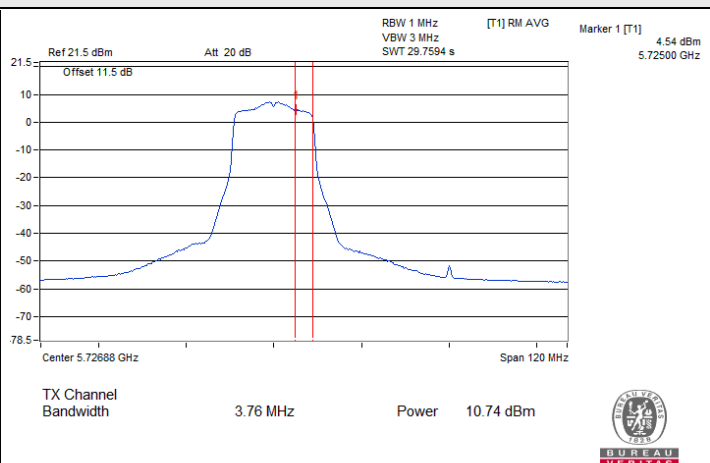


802.11ac (VHT20) / Chain 0: CH 144 (U-NII-3)

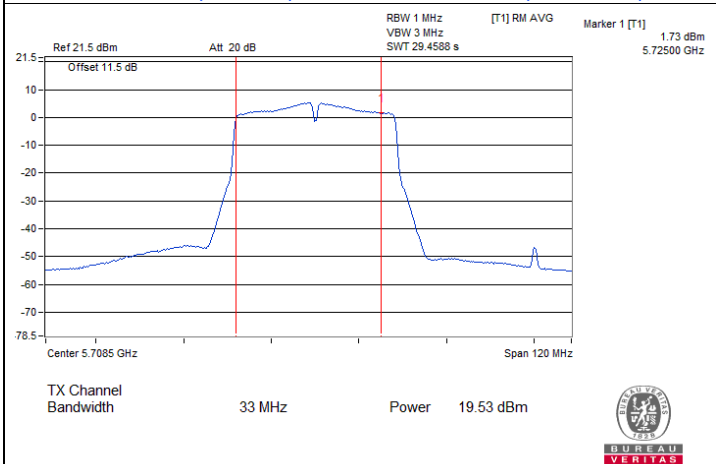
Spectrum Plot for channel straddling



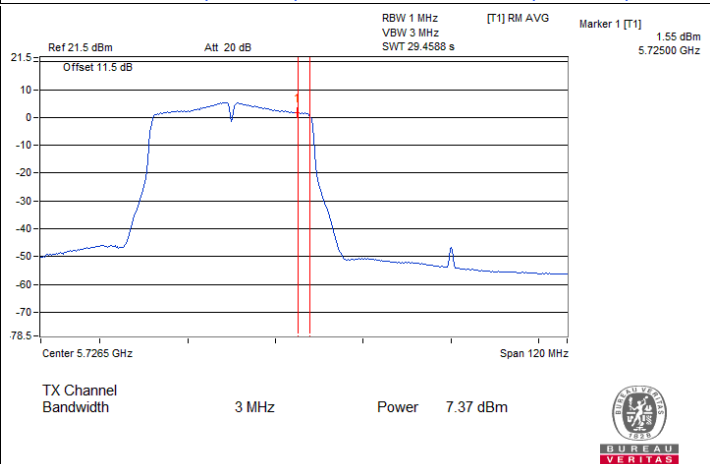
802.11ac (VHT20) / Chain 1: CH 144 (U-NII-2C)



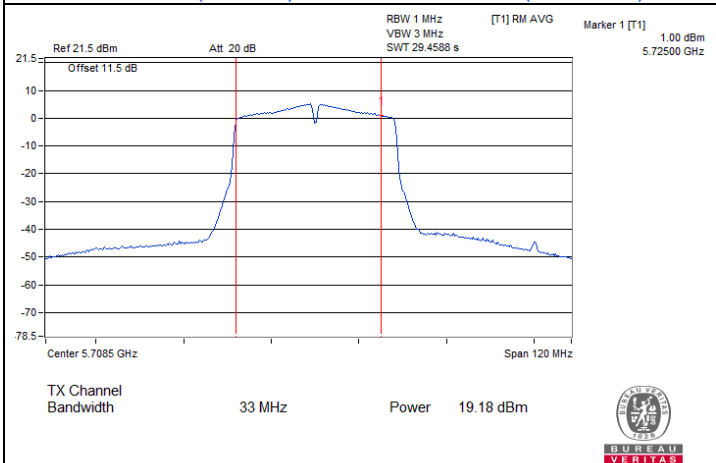
802.11ac (VHT20) / Chain 1: CH 144 (U-NII-3)



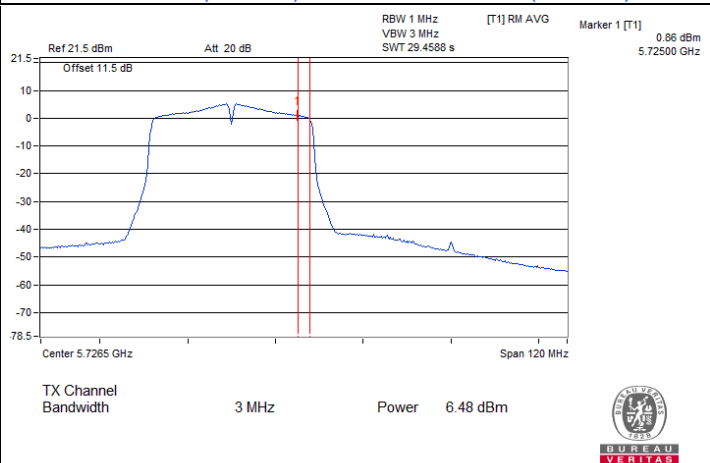
802.11ac (VHT40) / Chain 0: CH 142 (U-NII-2C)



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

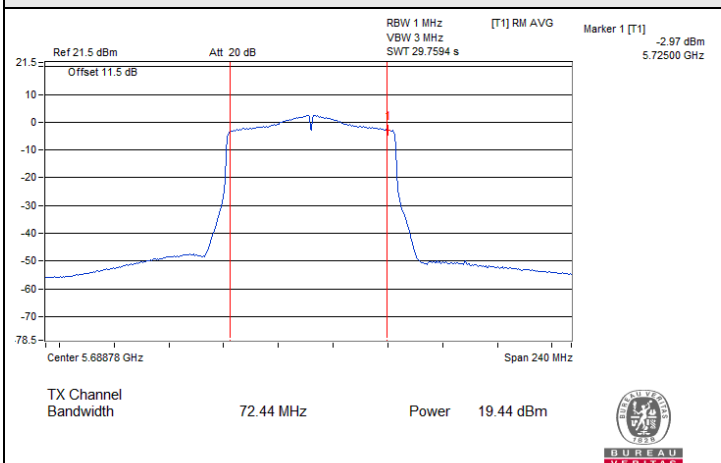


802.11ac (VHT40) / Chain 1: CH 142 (U-NII-2C)

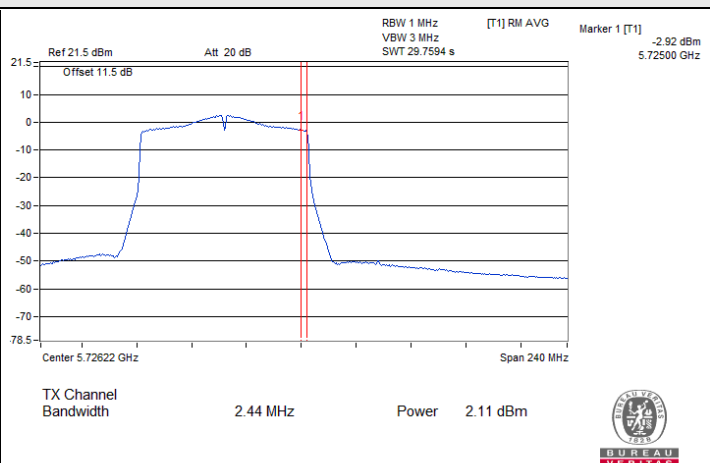


802.11ac (VHT40) / Chain 1: CH 142 (U-NII-3)

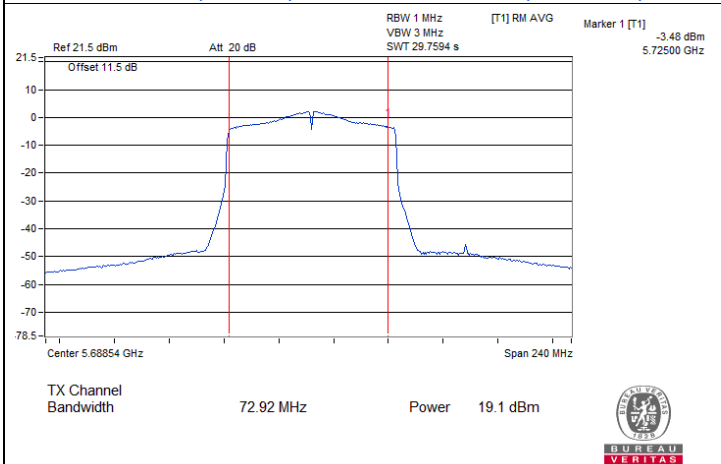
Spectrum Plot for channel straddling



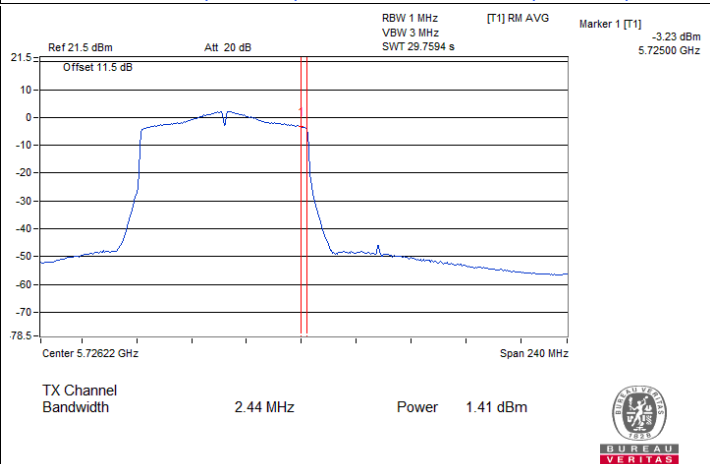
802.11ac (VHT80) / Chain 0: CH 138 (U-NII-2C)



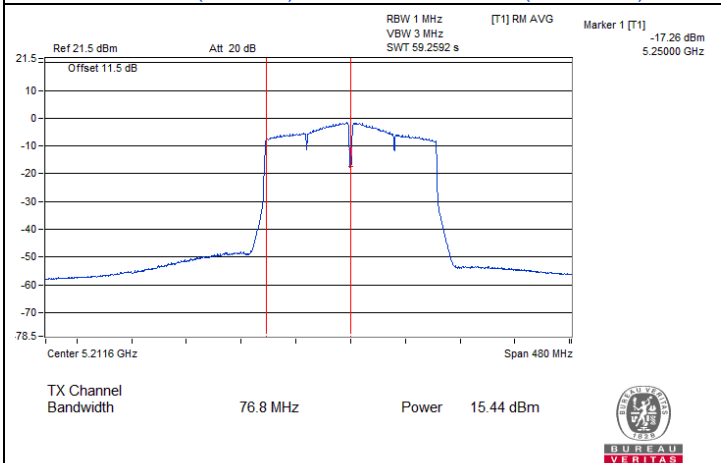
802.11ac (VHT80) / Chain 0: CH 138 (U-NII-3)



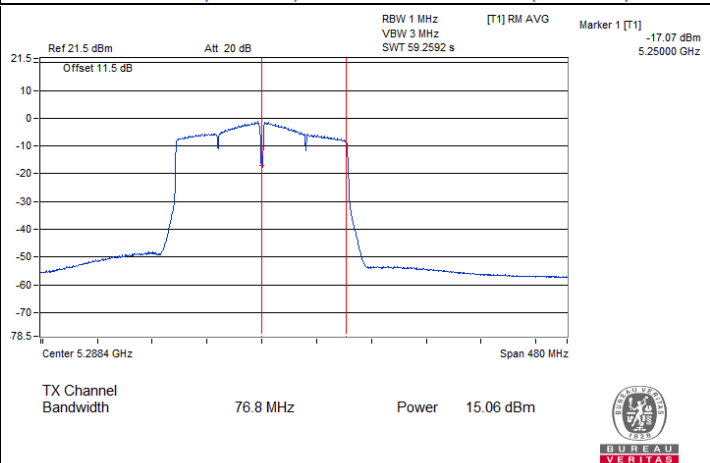
802.11ac (VHT80) / Chain 1: CH 138 (U-NII-2C)



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

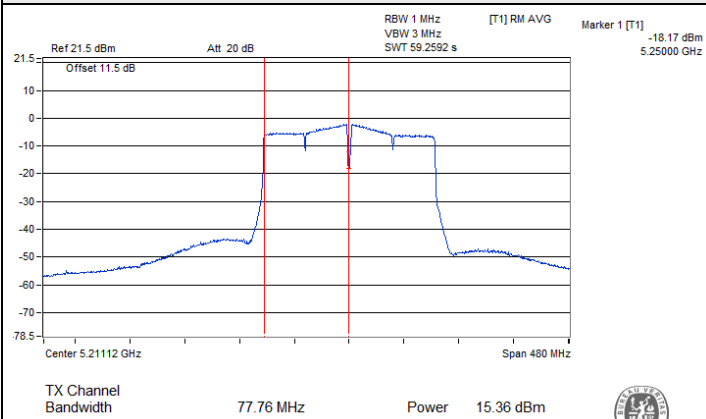


802.11ac (VHT160) / Chain 0: CH 50 (U-NII-1)

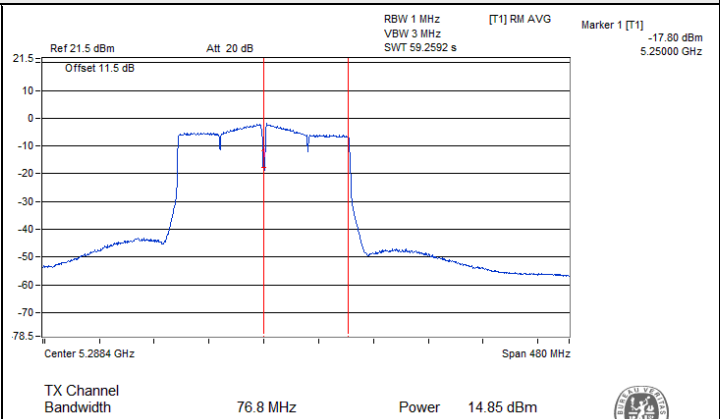


802.11ac (VHT160) / Chain 0: CH 50 (U-NII-2A)

Spectrum Plot for channel straddling



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

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
36	5180	7.55	7.60	0.27	10.86	11	Pass
40	5200	7.60	7.56	0.27	10.86	11	Pass
48	5240	7.69	7.22	0.27	10.74	11	Pass
52	5260	7.63	7.32	0.27	10.76	11	Pass
60	5300	7.73	7.38	0.27	10.84	11	Pass
64	5320	7.66	7.51	0.27	10.87	11	Pass
100	5500	7.43	7.34	0.27	10.67	10.87	Pass
116	5580	7.59	7.17	0.27	10.67	10.87	Pass
140	5700	7.50	7.22	0.27	10.64	10.87	Pass
144 (U-NII-2C)	5720	7.54	7.32	0.27	10.71	10.87	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 5.32 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.46 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 6.13 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.13 - 6) = 10.87$ dBm/MHz.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
36	5180	7.53	7.37	0.37	10.83	11	Pass
40	5200	7.53	7.44	0.37	10.87	11	Pass
48	5240	7.56	7.28	0.37	10.80	11	Pass
52	5260	7.46	7.20	0.37	10.71	11	Pass
60	5300	7.70	7.11	0.37	10.80	11	Pass
64	5320	7.57	7.58	0.37	10.96	11	Pass
100	5500	7.53	7.37	0.37	10.83	10.87	Pass
116	5580	7.50	7.29	0.37	10.78	10.87	Pass
140	5700	7.47	7.27	0.37	10.75	10.87	Pass
144 (U-NII-2C)	5720	7.48	7.20	0.37	10.72	10.87	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 5.32 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.46 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 6.13 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.13 - 6) = 10.87$ dBm/MHz.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
38	5190	4.69	4.28	0.32	7.82	11	Pass
46	5230	5.63	5.33	0.32	8.81	11	Pass
54	5270	5.61	5.40	0.32	8.84	11	Pass
62	5310	4.70	4.58	0.32	7.97	11	Pass
102	5510	4.90	4.86	0.32	8.21	10.87	Pass
110	5550	4.96	4.84	0.32	8.23	10.87	Pass
134	5670	5.01	4.80	0.32	8.24	10.87	Pass
142 (U-NII-2C)	5710	5.00	4.78	0.32	8.22	10.87	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 5.32 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.46 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 6.13 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.13 - 6) = 10.87$ dBm/MHz.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
42	5210	1.99	1.56	0.38	5.17	11	Pass
58	5290	1.76	1.40	0.38	4.97	11	Pass
106	5530	2.42	2.14	0.38	5.67	10.87	Pass
122	5610	2.52	2.04	0.38	5.68	10.87	Pass
138 (U-NII-2C)	5690	2.46	2.03	0.38	5.64	10.87	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 5.32 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.46 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 6.13 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.13 - 6) = 10.87$ dBm/MHz.

802.11ac (VHT160)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1				
50 (U-NII-1)	5250	-2.03	-2.20	0.35	1.25	11	Pass
50 (U-NII-2A)	5250	-2.05	-2.12	0.35	1.28	11	Pass
114	5570	-2.29	-3.03	0.35	0.72	10.87	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 5.32 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.46 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 6.13 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.13 - 6) = 10.87$ dBm/MHz.

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
144 (U-NII-3)	5720	-3.70	-3.52	-0.6	0.27	1.89	29.31	Pass
149	5745	2.42	2.28	5.36	0.27	7.85	29.31	Pass
157	5785	2.19	2.11	5.16	0.27	7.65	29.31	Pass
165	5825	1.79	1.39	4.6	0.27	7.09	29.31	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 6.69 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.69 - 6) = 29.31$ dBm/500kHz.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
144 (U-NII-3)	5720	-3.94	-4.39	-1.15	0.37	1.44	29.31	Pass
149	5745	1.46	1.37	4.43	0.37	7.02	29.31	Pass
157	5785	1.30	1.22	4.27	0.37	6.86	29.31	Pass
165	5825	0.79	0.45	3.63	0.37	6.22	29.31	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 6.69 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.69 - 6) = 29.31$ dBm/500kHz.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
142 (U-NII-3)	5710	-7.24	-8.11	-4.64	0.32	-2.10	29.31	Pass
151	5755	-0.89	-0.99	2.07	0.32	4.61	29.31	Pass
159	5795	-1.08	-1.58	1.69	0.32	4.23	29.31	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 6.69 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.69 - 6) = 29.31$ dBm/500kHz.

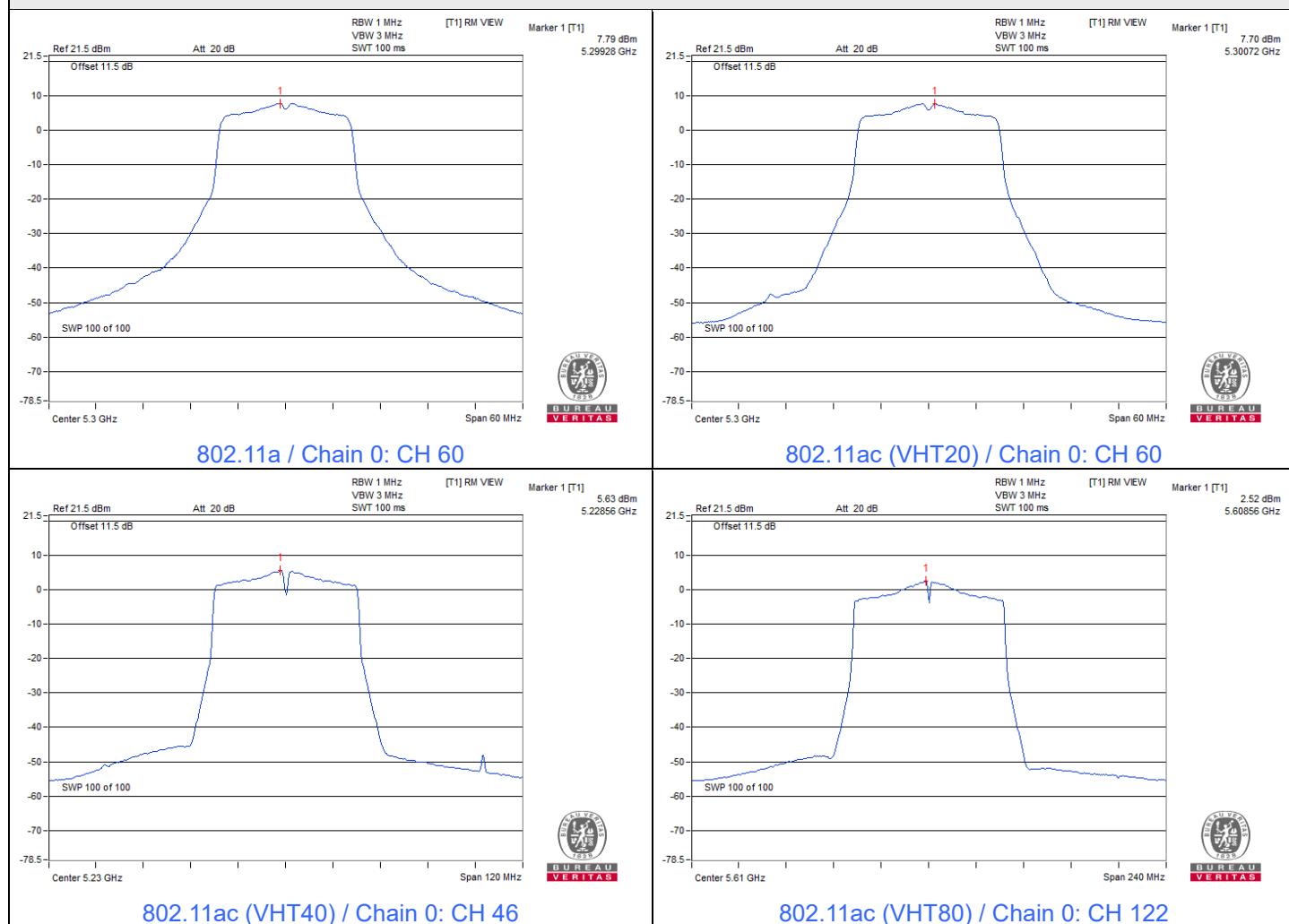
802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)		Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1					
138 (U-NII-3)	5690	-11.72	-12.20	-8.94	0.38	-6.34	29.31	Pass
155	5775	-5.09	-5.59	-2.32	0.38	0.28	29.31	Pass

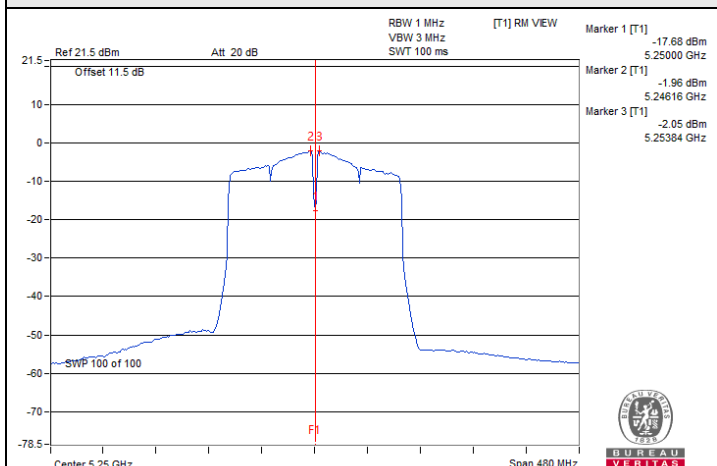
Notes:

- 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 6.69 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.69 - 6) = 29.31$ dBm/500kHz.

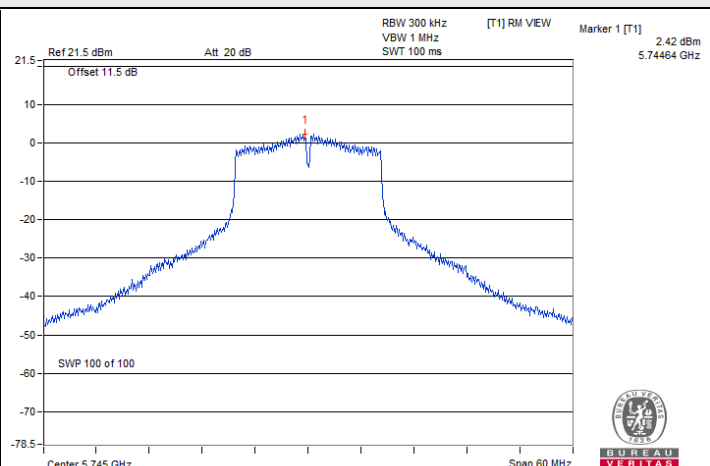
Spectrum Plot of Maximum Value



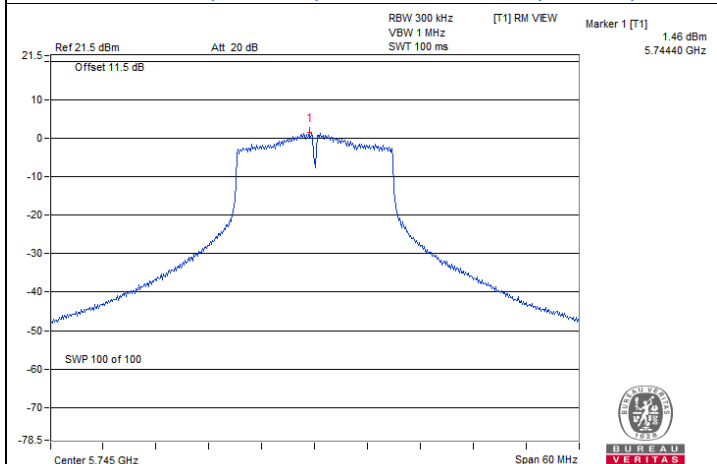
Spectrum Plot of Maximum Value



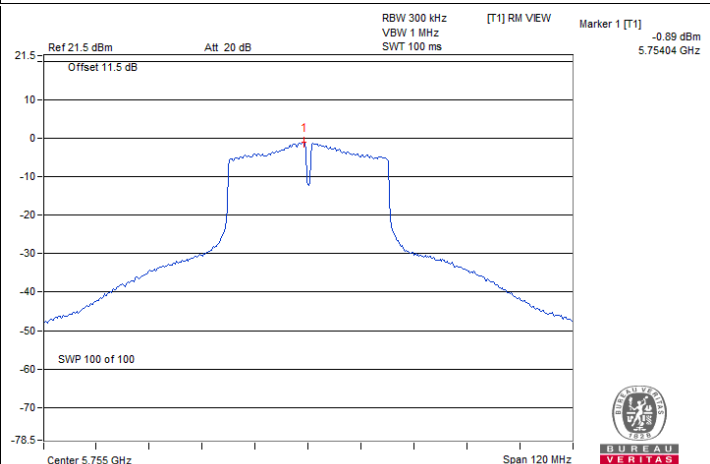
802.11ac (VHT160) / Chain 0: CH 50 (U-NII-1)



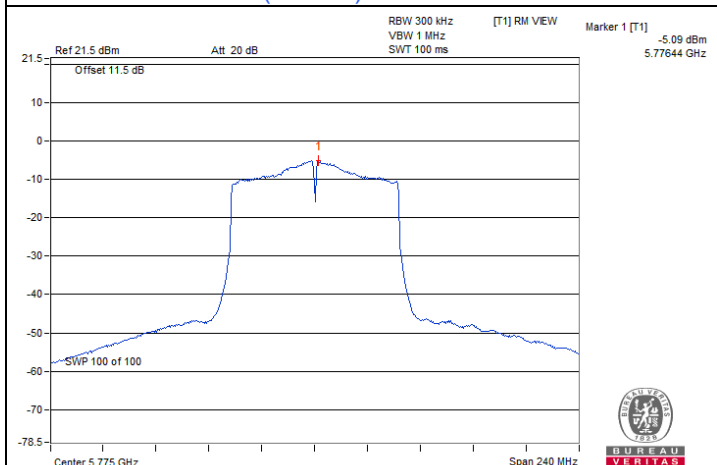
802.11a / Chain 0: CH 149



802.11ac (VHT20) / Chain 0: CH 149



802.11ac (VHT40) / Chain 0: CH 151



802.11ac (VHT80) / Chain 0: CH 155

7.4 6 dB Bandwidth

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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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	2.64	2.54	0.5	Pass
149	5745	15.28	15.28	0.5	Pass
157	5785	15.27	15.28	0.5	Pass
165	5825	15.21	15.28	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	2.50	2.63	0.5	Pass
149	5745	15.22	15.49	0.5	Pass
157	5785	15.26	15.71	0.5	Pass
165	5825	16.55	15.63	0.5	Pass

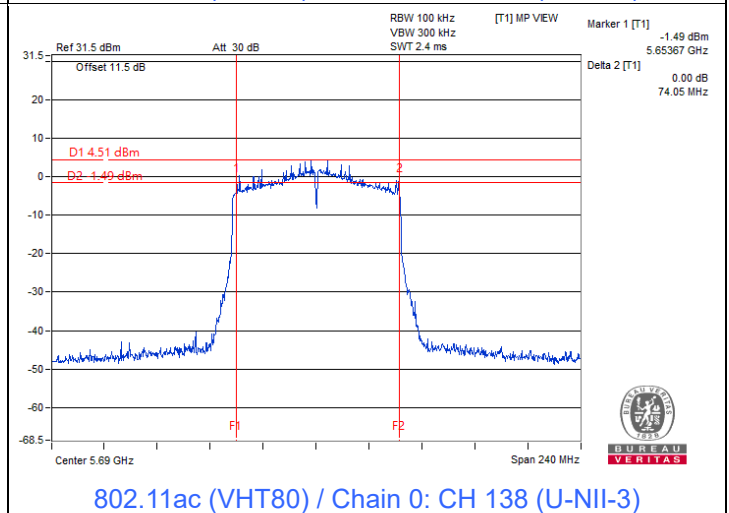
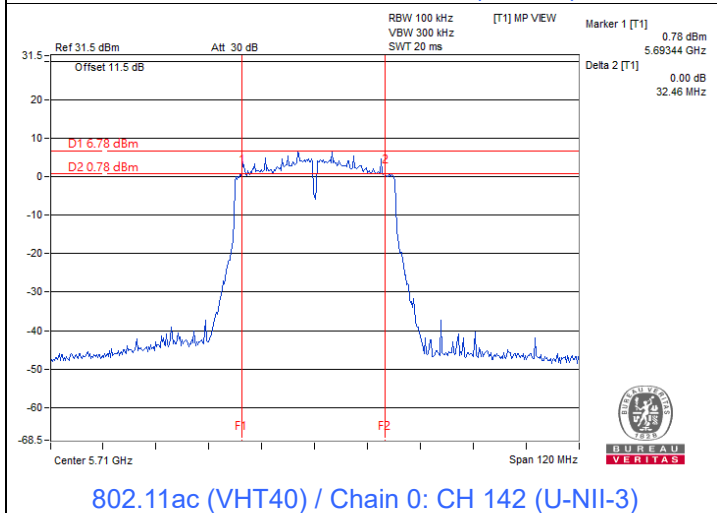
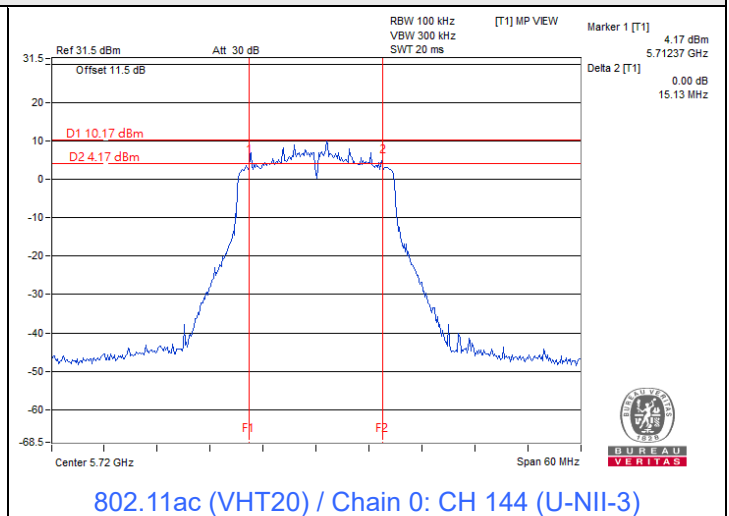
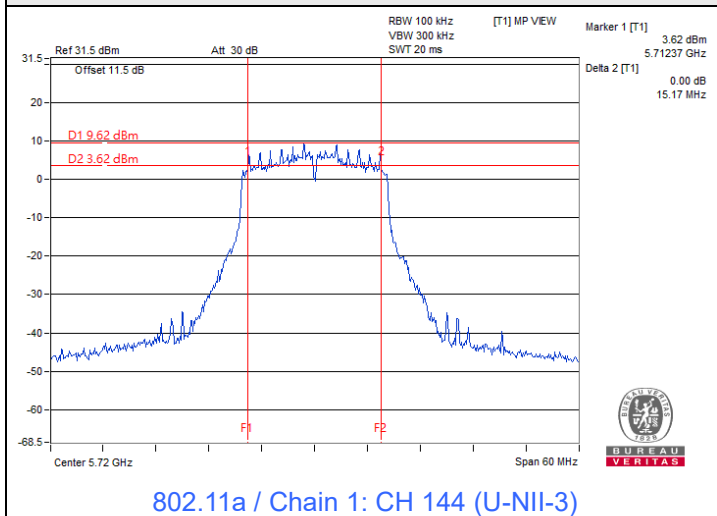
802.11ac (VHT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
142 (U-NII-3)	5710	0.90	2.65	0.5	Pass
151	5755	35.34	35.26	0.5	Pass
159	5795	33.30	33.47	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	2.72	2.79	0.5	Pass
155	5775	71.34	71.45	0.5	Pass

Spectrum Plot of Minimum Value



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

7.5 Occupied Bandwidth

Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.32	16.32
40	5200	16.32	16.44
48	5240	16.32	16.44
52	5260	16.32	16.44
60	5300	16.44	16.32
64	5320	16.32	16.44
100	5500	16.44	16.32
116	5580	16.44	16.44
140	5700	16.44	16.44
144 (U-NII-2C)	5720	13.28	13.28
144 (U-NII-3)	5720	3.16	3.16
149	5745	16.68	17.52
157	5785	16.68	17.16
165	5825	16.68	16.68

802.11ac (VHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.64	17.64
40	5200	17.64	17.64
48	5240	17.52	17.64
52	5260	17.64	17.64
60	5300	17.64	17.64
64	5320	17.64	17.64
100	5500	17.52	17.64
116	5580	17.64	17.64
140	5700	17.64	17.52
144 (U-NII-2C)	5720	13.88	13.88
144 (U-NII-3)	5720	3.76	3.76
149	5745	17.88	18.12
157	5785	17.88	18.12
165	5825	17.64	17.88

802.11ac (VHT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.00	36.00
46	5230	36.00	36.00
54	5270	36.00	36.00
62	5310	36.00	35.76
102	5510	36.00	36.00
110	5550	36.24	36.00
134	5670	36.00	36.00
142 (U-NII-2C)	5710	33.00	33.00
142 (U-NII-3)	5710	3.00	3.00
151	5755	36.48	36.96
159	5795	36.48	36.72

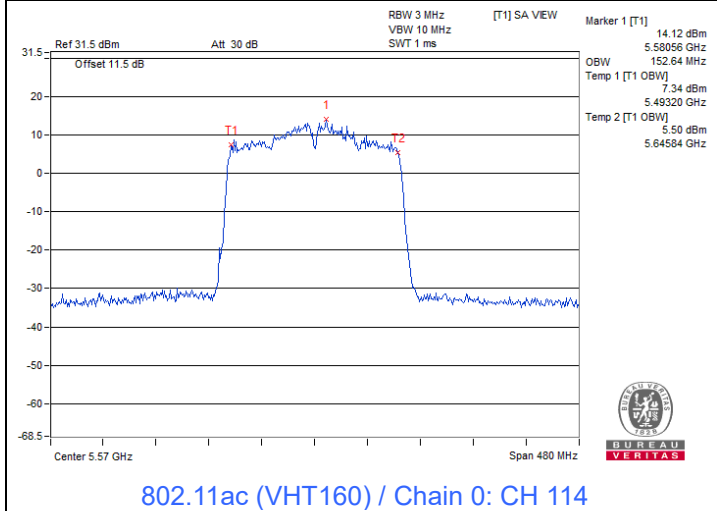
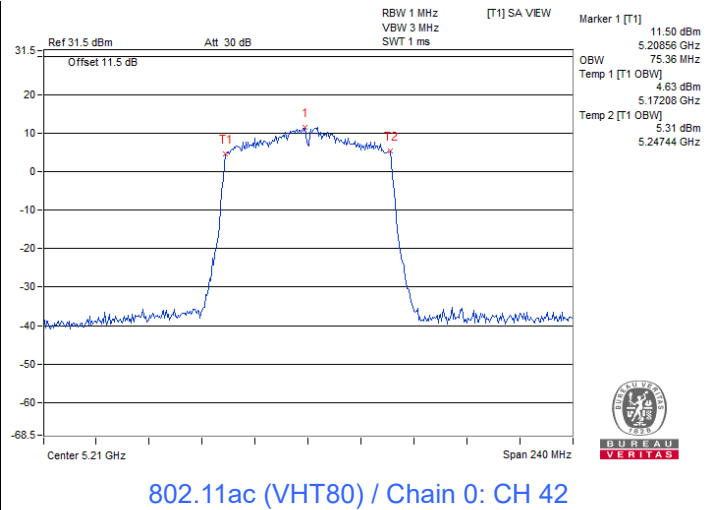
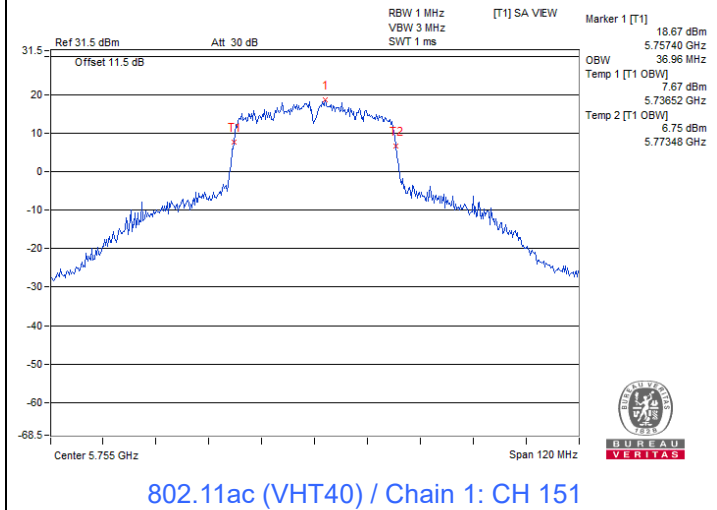
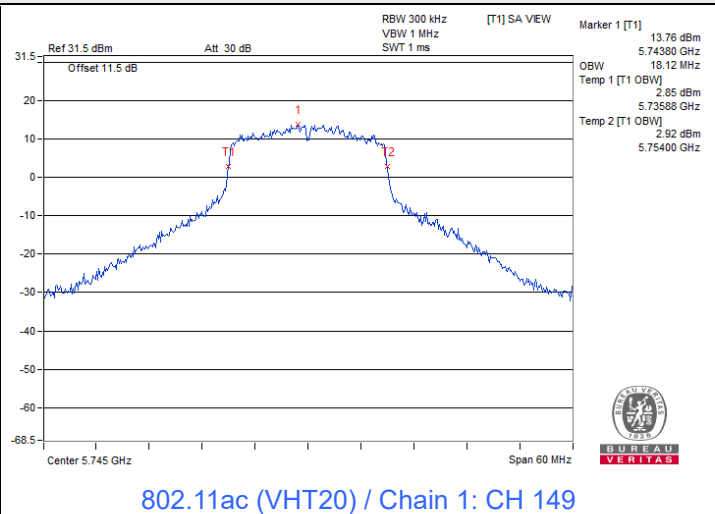
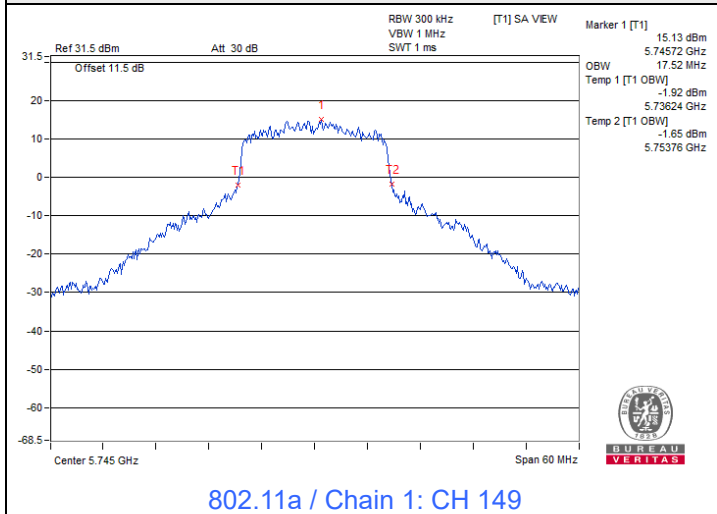
802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.36	74.88
58	5290	75.36	74.88
106	5530	75.36	74.88
122	5610	74.88	74.88
138 (U-NII-2C)	5690	72.44	72.92
138 (U-NII-3)	5690	2.44	2.44
155	5775	75.12	74.88

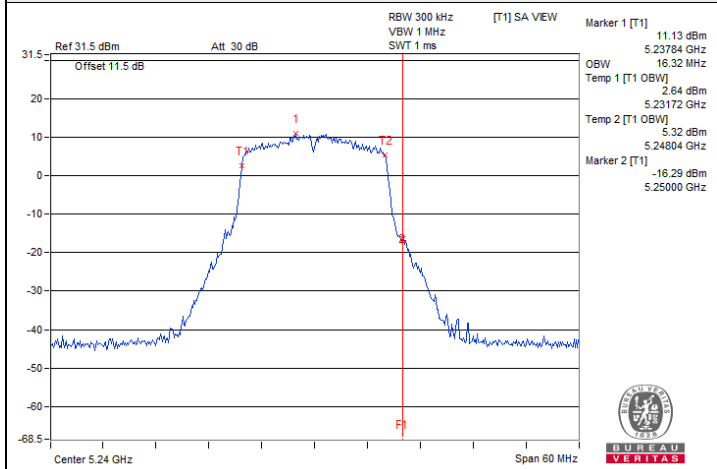
802.11ac (VHT160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	76.80	77.76
50 (U-NII-2A)	5250	76.80	76.80
114	5570	152.64	152.64

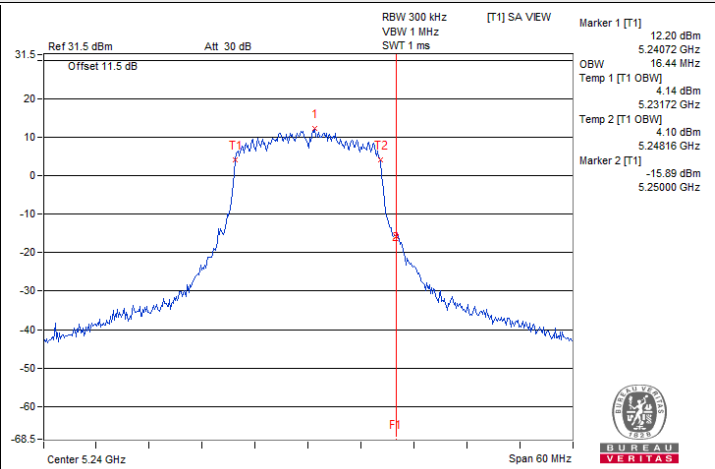
Spectrum Plot of Maximum Value



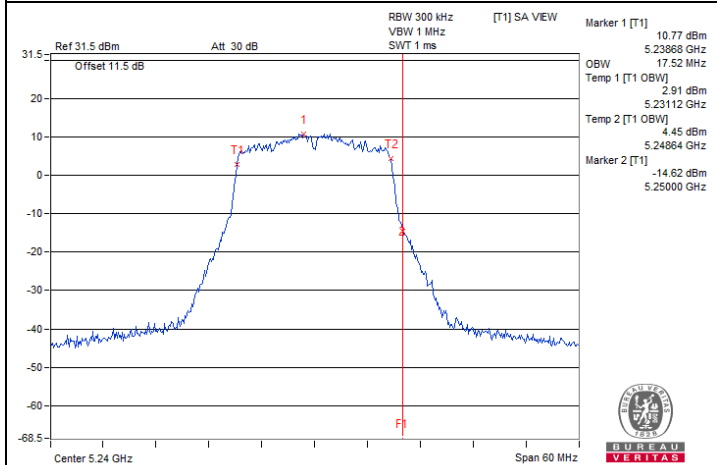
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



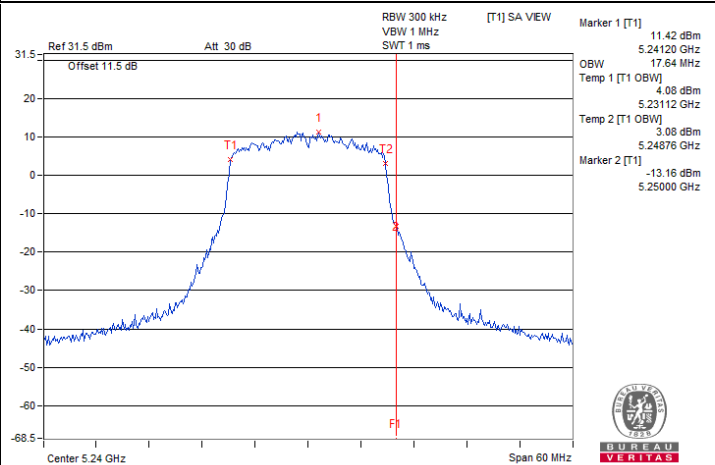
802.11a / Chain 0: CH 48



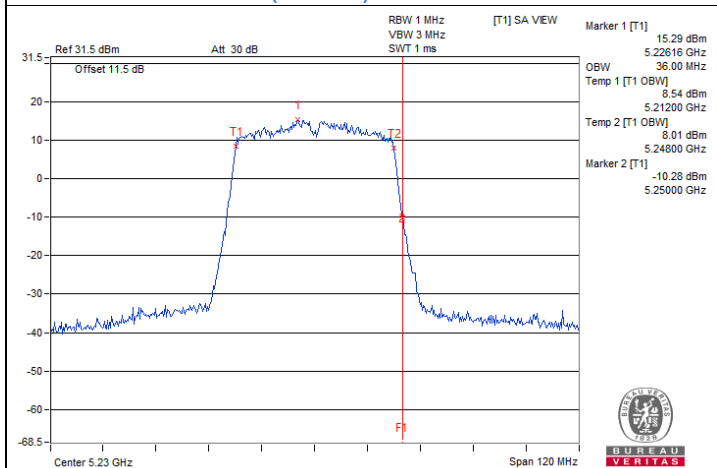
802.11a / Chain 1: CH 48



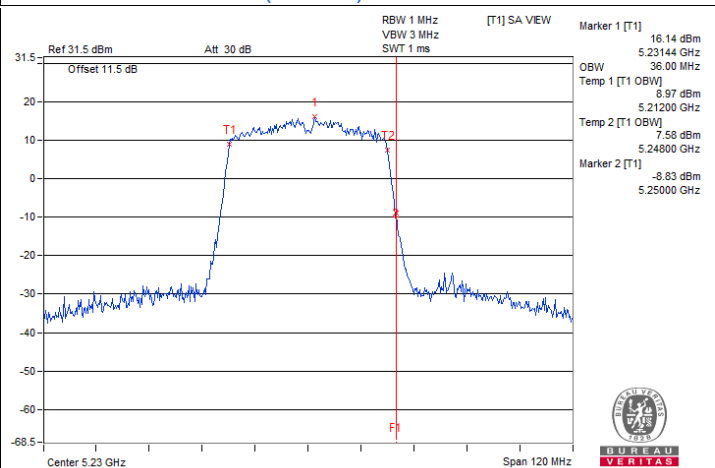
802.11ac (VHT20) / Chain 0: CH 48



802.11ac (VHT20) / Chain 1: CH 48

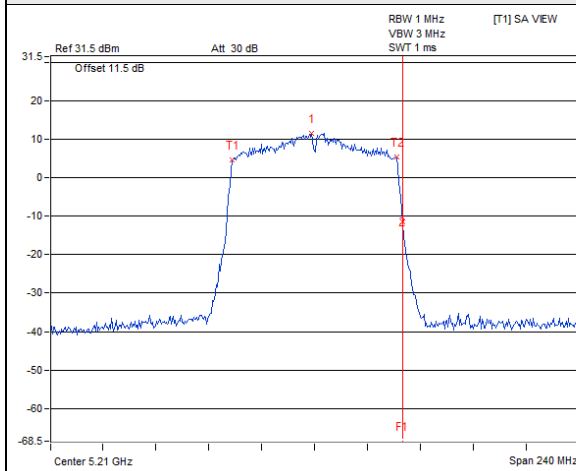


802.11ac (VHT40) / Chain 0: CH 46

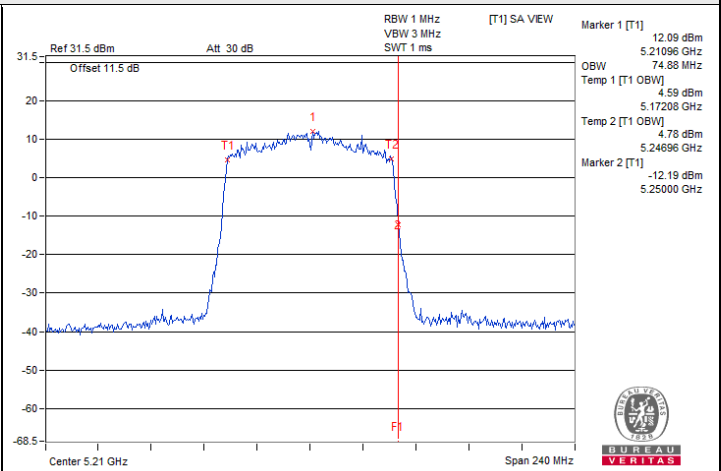


802.11ac (VHT40) / Chain 1: CH 46

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

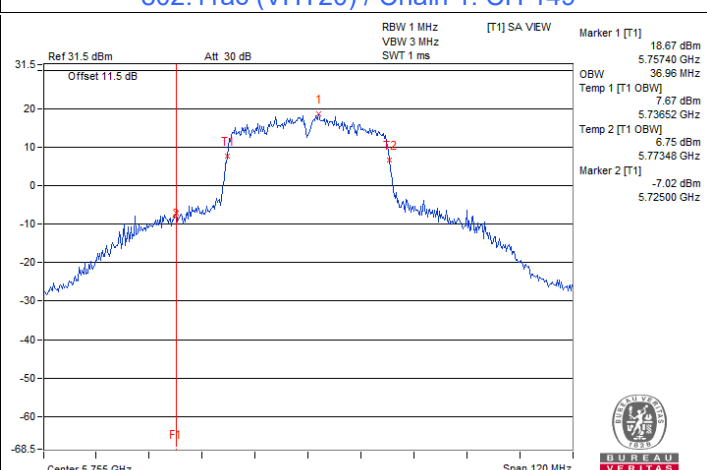
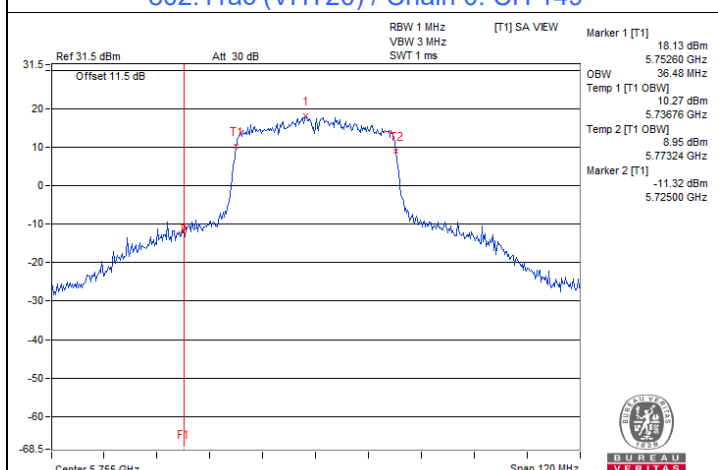
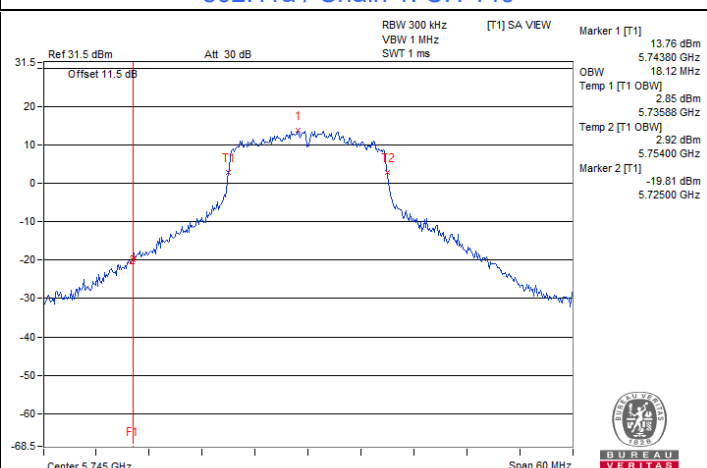
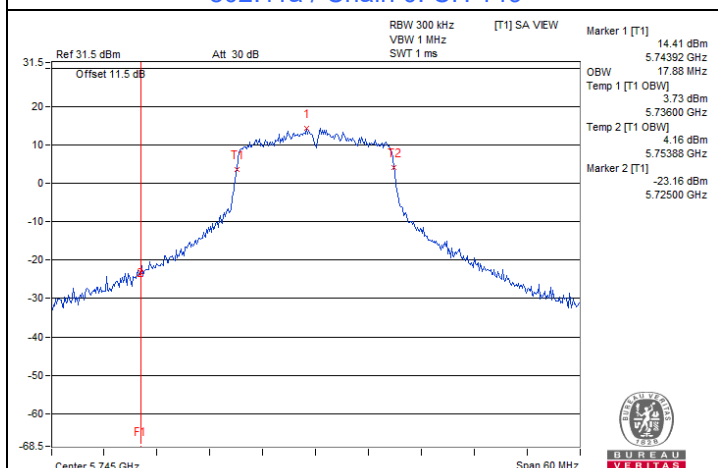
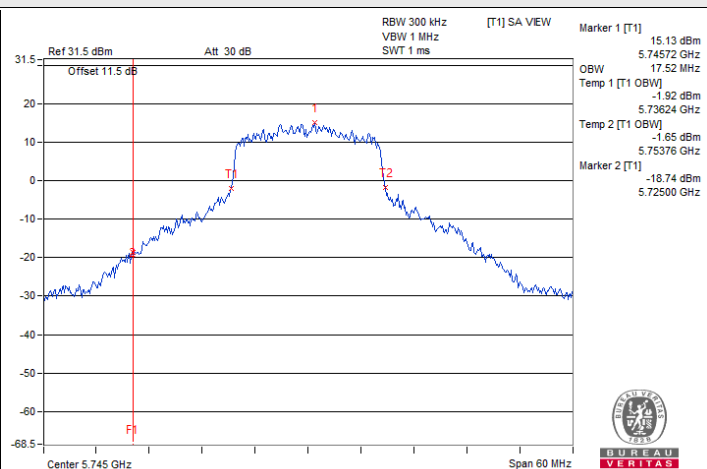
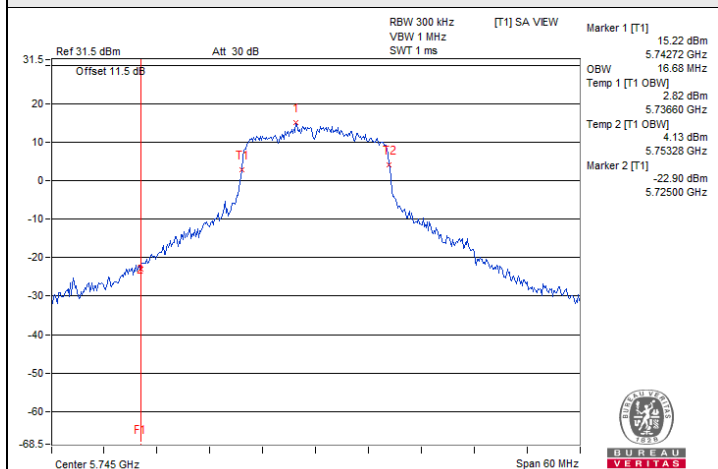


802.11ac (VHT80) / Chain 0: CH 42

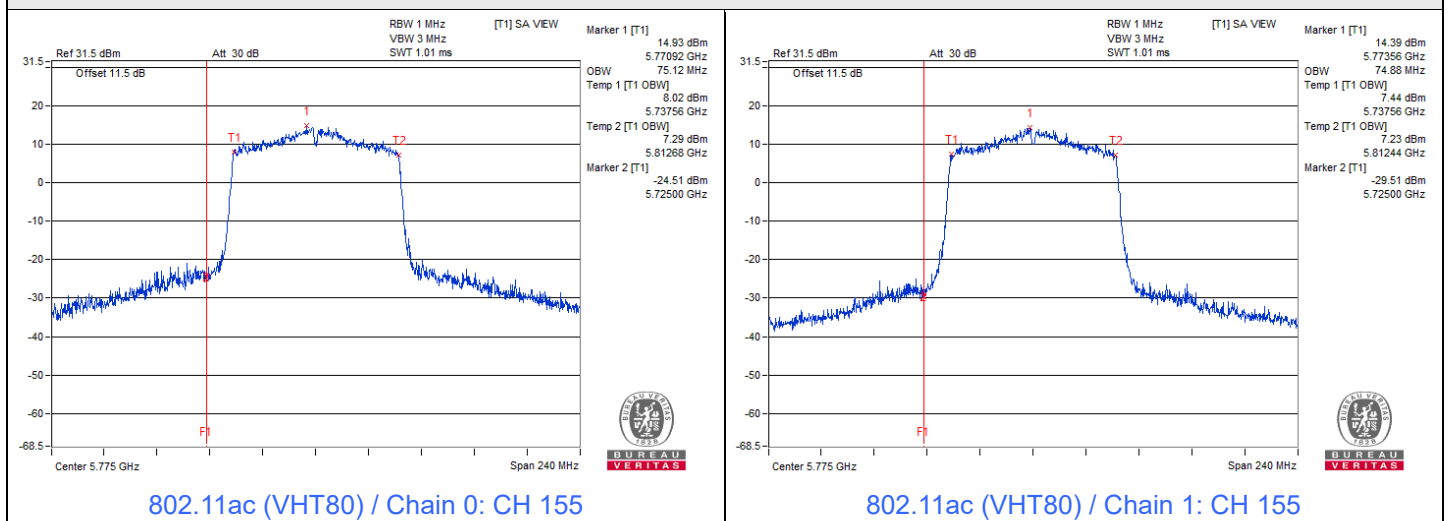


802.11ac (VHT80) / Chain 1: CH 42

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



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



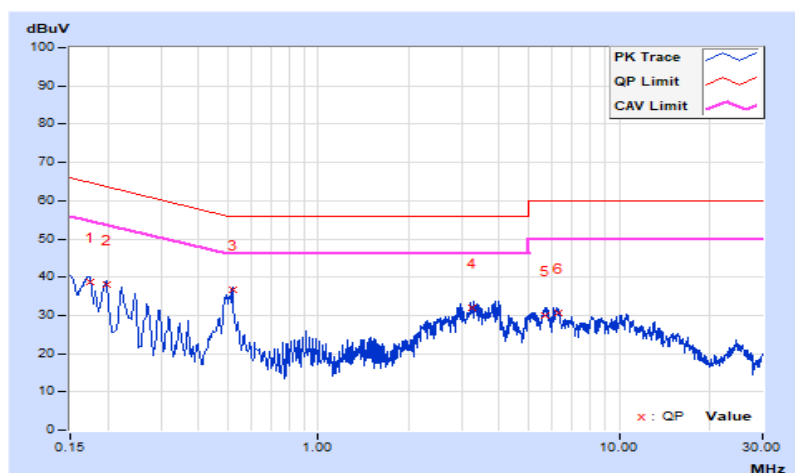
7.6 AC Power Conducted Emissions

RF Mode	802.11ac (VHT80)	Channel	CH 42 : 5210 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 70% RH
Tested By	Tony Wu		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17400	9.69	29.10	24.75	38.79	34.44	64.77	54.77	-25.98	-20.33
2	0.19728	9.71	28.47	24.57	38.18	34.28	63.72	53.72	-25.54	-19.44
3	0.51800	9.70	26.94	24.73	36.64	34.43	56.00	46.00	-19.36	-11.57
4	3.24600	9.80	22.06	17.32	31.86	27.12	56.00	46.00	-24.14	-18.88
5	5.65800	9.83	20.21	15.45	30.04	25.28	60.00	50.00	-29.96	-24.72
6	6.25000	9.83	20.66	16.30	30.49	26.13	60.00	50.00	-29.51	-23.87

Remarks:

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

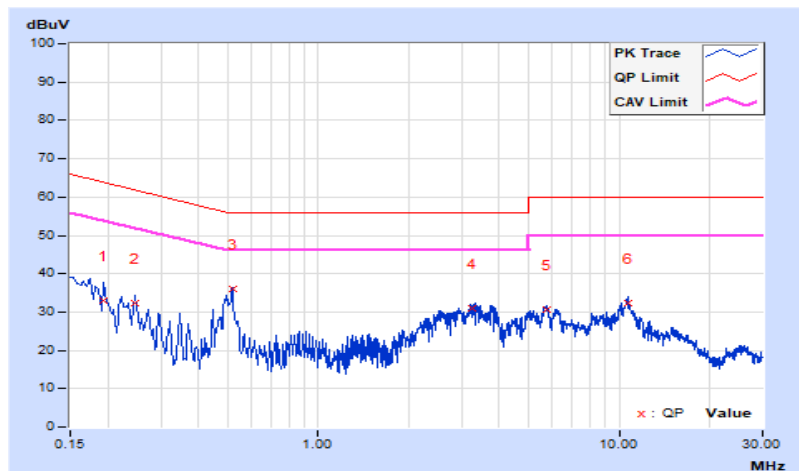


RF Mode	802.11ac (VHT80)	Channel	CH 42 : 5210 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 70% RH
Tested By	Tony Wu		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19265	9.66	23.24	18.51	32.90	28.17	63.92	53.92	-31.02	-25.75
2	0.24485	9.67	22.74	18.99	32.41	28.66	61.93	51.93	-29.52	-23.27
3	0.51800	9.72	26.18	24.01	35.90	33.73	56.00	46.00	-20.10	-12.27
4	3.24620	9.82	21.08	16.96	30.90	26.78	56.00	46.00	-25.10	-19.22
5	5.73400	9.85	20.87	17.11	30.72	26.96	60.00	50.00	-29.28	-23.04
6	10.65400	9.91	22.35	17.35	32.26	27.26	60.00	50.00	-27.74	-22.74

Remarks:

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



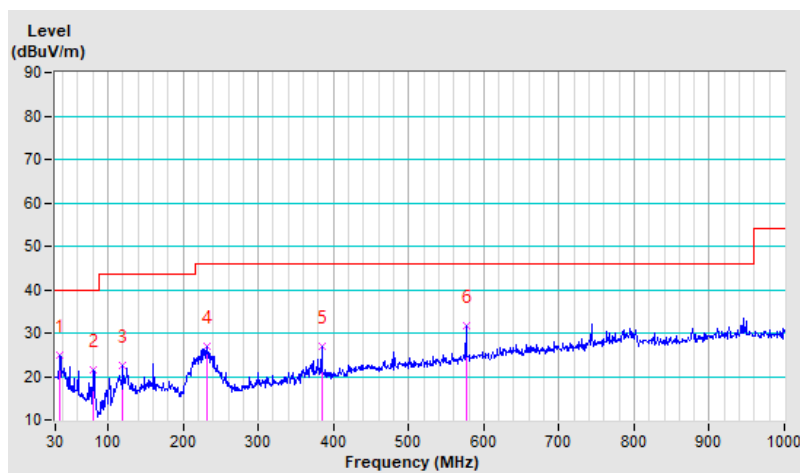
7.7 Unwanted Emissions below 1 GHz

RF Mode	802.11ac (VHT80)	Channel	CH 42 : 5210 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Tony Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	35.82	24.8 QP	40.0	-15.2	1.99 H	337	38.7	-13.9
2	80.44	21.4 QP	40.0	-18.6	1.99 H	270	39.3	-17.9
3	119.24	22.5 QP	43.5	-21.0	1.49 H	294	37.4	-14.9
4	230.79	26.9 QP	46.0	-19.1	1.49 H	146	41.8	-14.9
5	384.05	27.0 QP	46.0	-19.0	1.00 H	62	36.7	-9.7
6	576.11	31.6 QP	46.0	-14.4	1.49 H	79	36.4	-4.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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.

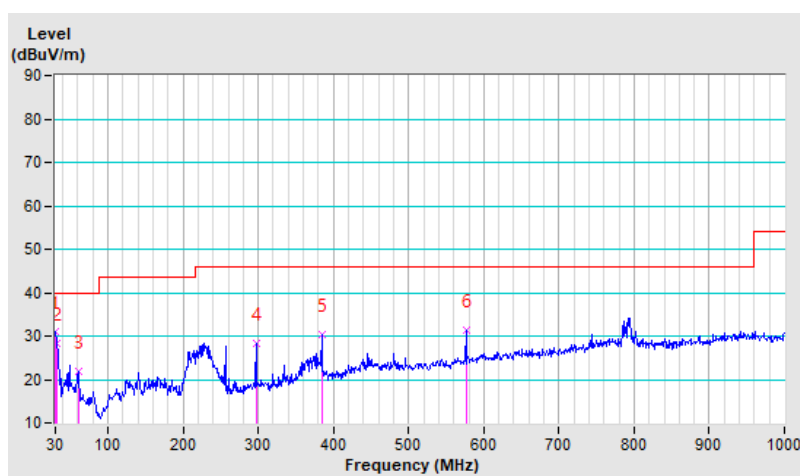


RF Mode	802.11ac (VHT80)	Channel	CH 42 : 5210 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Tony Wu		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	31.1 QP	40.0	-8.9	1.51 V	2	45.2	-14.1
2	31.94	28.4 QP	40.0	-11.6	1.01 V	18	42.5	-14.1
3	60.07	21.7 QP	40.0	-18.3	1.01 V	304	35.4	-13.7
4	296.75	28.2 QP	46.0	-17.8	1.01 V	169	40.1	-11.9
5	384.05	30.5 QP	46.0	-15.5	1.51 V	282	40.2	-9.7
6	576.11	31.4 QP	46.0	-14.6	1.01 V	35	36.2	-4.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. 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.



7.8 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	4799.52	57.1 PK	74.0	-16.9	1.18 H	355	54.2	2.9
2	4799.52	46.6 AV	54.0	-7.4	1.18 H	355	43.7	2.9
3	5150.00	61.3 PK	74.0	-12.7	1.18 H	355	58.2	3.1
4	5150.00	49.4 AV	54.0	-4.6	1.18 H	355	46.3	3.1
5	*5180.00	115.8 PK			1.18 H	355	75.0	40.8
6	*5180.00	106.0 AV			1.18 H	355	65.2	40.8
7	#10360.00	57.4 PK	68.2	-10.8	2.00 H	182	48.1	9.3
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	4799.52	55.1 PK	74.0	-18.9	1.00 V	182	52.2	2.9
2	4799.52	45.6 AV	54.0	-8.4	1.00 V	182	42.7	2.9
3	5150.00	65.4 PK	74.0	-8.6	1.00 V	182	62.3	3.1
4	5150.00	50.3 AV	54.0	-3.7	1.00 V	182	47.2	3.1
5	*5180.00	118.9 PK			1.00 V	182	78.1	40.8
6	*5180.00	109.3 AV			1.00 V	182	68.5	40.8
7	#10360.00	56.6 PK	68.2	-11.6	1.48 V	112	47.3	9.3

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	4799.52	56.0 PK	74.0	-18.0	1.20 H	347	53.1	2.9
2	4799.52	45.5 AV	54.0	-8.5	1.20 H	347	42.6	2.9
3	5150.00	58.6 PK	74.0	-15.4	1.20 H	347	55.5	3.1
4	5150.00	46.8 AV	54.0	-7.2	1.20 H	347	43.7	3.1
5	*5200.00	117.3 PK			1.20 H	347	76.5	40.8
6	*5200.00	107.9 AV			1.20 H	347	67.1	40.8
7	#10400.00	58.5 PK	68.2	-9.7	2.00 H	186	49.4	9.1
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	4799.52	56.6 PK	74.0	-17.4	1.04 V	182	53.7	2.9
2	4799.52	45.4 AV	54.0	-8.6	1.04 V	182	42.5	2.9
3	5150.00	58.8 PK	74.0	-15.2	1.04 V	182	55.7	3.1
4	5150.00	46.9 AV	54.0	-7.1	1.04 V	182	43.8	3.1
5	*5200.00	120.2 PK			1.04 V	182	79.4	40.8
6	*5200.00	110.8 AV			1.04 V	182	70.0	40.8
7	#10400.00	57.5 PK	68.2	-10.7	1.57 V	118	48.4	9.1

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	4799.52	56.4 PK	74.0	-17.6	1.28 H	343	53.5	2.9
2	4799.52	45.9 AV	54.0	-8.1	1.28 H	343	43.0	2.9
3	*5240.00	117.0 PK			1.28 H	343	76.3	40.7
4	*5240.00	107.5 AV			1.28 H	343	66.8	40.7
5	5350.00	58.0 PK	74.0	-16.0	1.28 H	343	55.0	3.0
6	5350.00	45.5 AV	54.0	-8.5	1.28 H	343	42.5	3.0
7	#10480.00	59.1 PK	68.2	-9.1	2.00 H	184	49.5	9.6
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	4799.52	57.1 PK	74.0	-16.9	1.16 V	182	54.2	2.9
2	4799.52	45.6 AV	54.0	-8.4	1.16 V	182	42.7	2.9
3	*5240.00	119.8 PK			1.16 V	182	79.1	40.7
4	*5240.00	110.5 AV			1.16 V	182	69.8	40.7
5	5350.00	59.5 PK	74.0	-14.5	1.16 V	182	56.5	3.0
6	5350.00	45.8 AV	54.0	-8.2	1.16 V	182	42.8	3.0
7	#10480.00	58.3 PK	68.2	-9.9	1.57 V	122	48.7	9.6

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 (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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	4799.52	55.2 PK	74.0	-18.8	1.18 H	355	52.3	2.9
2	4799.52	47.3 AV	54.0	-6.7	1.18 H	355	44.4	2.9
3	5150.00	59.8 PK	74.0	-14.2	1.18 H	355	56.7	3.1
4	5150.00	47.7 AV	54.0	-6.3	1.18 H	355	44.6	3.1
5	*5180.00	116.3 PK			1.18 H	355	75.5	40.8
6	*5180.00	105.3 AV			1.18 H	355	64.5	40.8
7	#10360.00	57.5 PK	68.2	-10.7	2.00 H	182	48.2	9.3
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	4799.52	56.0 PK	74.0	-18.0	1.00 V	188	53.1	2.9
2	4799.52	46.0 AV	54.0	-8.0	1.00 V	188	43.1	2.9
3	5150.00	64.2 PK	74.0	-9.8	1.00 V	188	61.1	3.1
4	5150.00	48.7 AV	54.0	-5.3	1.00 V	188	45.6	3.1
5	*5180.00	119.2 PK			1.00 V	188	78.4	40.8
6	*5180.00	108.0 AV			1.00 V	188	67.2	40.8
7	#10360.00	55.9 PK	68.2	-12.3	1.48 V	112	46.6	9.3

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	4799.52	57.4 PK	74.0	-16.6	1.20 H	347	54.5	2.9
2	4799.52	46.8 AV	54.0	-7.2	1.20 H	347	43.9	2.9
3	5150.00	59.2 PK	74.0	-14.8	1.20 H	347	56.1	3.1
4	5150.00	46.6 AV	54.0	-7.4	1.20 H	347	43.5	3.1
5	*5200.00	118.9 PK			1.20 H	347	78.1	40.8
6	*5200.00	107.9 AV			1.20 H	347	67.1	40.8
7	#10400.00	57.9 PK	68.2	-10.3	2.00 H	186	48.8	9.1
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	4799.52	56.9 PK	74.0	-17.1	1.04 V	182	54.0	2.9
2	4799.52	45.1 AV	54.0	-8.9	1.04 V	182	42.2	2.9
3	5150.00	59.2 PK	74.0	-14.8	1.04 V	182	56.1	3.1
4	5150.00	46.8 AV	54.0	-7.2	1.04 V	182	43.7	3.1
5	*5200.00	121.7 PK			1.04 V	182	80.9	40.8
6	*5200.00	110.6 AV			1.04 V	182	69.8	40.8
7	#10400.00	56.9 PK	68.2	-11.3	1.57 V	118	47.8	9.1

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	4799.52	55.7 PK	74.0	-18.3	1.28 H	343	52.8	2.9
2	4799.52	46.1 AV	54.0	-7.9	1.28 H	343	43.2	2.9
3	*5240.00	118.2 PK			1.28 H	343	77.5	40.7
4	*5240.00	107.6 AV			1.28 H	343	66.9	40.7
5	5350.00	57.8 PK	74.0	-16.2	1.28 H	343	54.8	3.0
6	5350.00	45.6 AV	54.0	-8.4	1.28 H	343	42.6	3.0
7	#10480.00	58.4 PK	68.2	-9.8	2.00 H	184	48.8	9.6
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	4799.52	56.7 PK	74.0	-17.3	1.16 V	182	53.8	2.9
2	4799.52	45.6 AV	54.0	-8.4	1.16 V	182	42.7	2.9
3	*5240.00	121.6 PK			1.16 V	182	80.9	40.7
4	*5240.00	110.5 AV			1.16 V	182	69.8	40.7
5	5350.00	58.7 PK	74.0	-15.3	1.16 V	182	55.7	3.0
6	5350.00	45.9 AV	54.0	-8.1	1.16 V	182	42.9	3.0
7	#10480.00	57.9 PK	68.2	-10.3	1.57 V	122	48.3	9.6

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	4799.52	57.3 PK	74.0	-16.7	1.21 H	349	54.4	2.9
2	4799.52	47.0 AV	54.0	-7.0	1.21 H	349	44.1	2.9
3	5150.00	61.7 PK	74.0	-12.3	1.21 H	349	58.6	3.1
4	5150.00	49.7 AV	54.0	-4.3	1.21 H	349	46.6	3.1
5	*5190.00	112.8 PK			1.21 H	349	72.0	40.8
6	*5190.00	101.9 AV			1.21 H	349	61.1	40.8
7	#10380.00	56.5 PK	68.2	-11.7	2.00 H	185	47.4	9.1
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	4799.52	56.6 PK	74.0	-17.4	1.12 V	182	53.7	2.9
2	4799.52	45.7 AV	54.0	-8.3	1.12 V	182	42.8	2.9
3	5150.00	62.2 PK	74.0	-11.8	1.12 V	182	59.1	3.1
4	5150.00	50.1 AV	54.0	-3.9	1.12 V	182	47.0	3.1
5	*5190.00	115.3 PK			1.12 V	182	74.5	40.8
6	*5190.00	104.5 AV			1.12 V	182	63.7	40.8
7	#10380.00	55.7 PK	68.2	-12.5	1.52 V	117	46.6	9.1

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	4799.52	56.8 PK	74.0	-17.2	1.14 H	352	53.9	2.9
2	4799.52	45.7 AV	54.0	-8.3	1.14 H	352	42.8	2.9
3	5150.00	60.5 PK	74.0	-13.5	1.14 H	352	57.4	3.1
4	5150.00	47.5 AV	54.0	-6.5	1.14 H	352	44.4	3.1
5	*5230.00	115.9 PK			1.14 H	352	75.2	40.7
6	*5230.00	105.0 AV			1.14 H	352	64.3	40.7
7	5350.00	60.5 PK	74.0	-13.5	1.14 H	352	57.5	3.0
8	5350.00	45.6 AV	54.0	-8.4	1.06 H	170	42.6	3.0
9	#10460.00	56.7 PK	68.2	-11.5	2.00 H	178	47.3	9.4

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	4799.52	54.7 PK	74.0	-19.3	1.06 V	182	51.8	2.9
2	4799.52	45.1 AV	54.0	-8.9	1.06 V	182	42.2	2.9
3	5150.00	62.2 PK	74.0	-11.8	1.06 V	182	59.1	3.1
4	5150.00	48.7 AV	54.0	-5.3	1.06 V	182	45.6	3.1
5	*5230.00	118.2 PK			1.06 V	182	77.5	40.7
6	*5230.00	107.6 AV			1.06 V	182	66.9	40.7
7	5350.00	59.4 PK	74.0	-14.6	1.06 V	182	56.4	3.0
8	5350.00	46.1 AV	54.0	-7.9	1.06 V	182	43.1	3.0
9	#10460.00	55.9 PK	68.2	-12.3	1.54 V	117	46.5	9.4

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	802.11ac (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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	4799.52	56.8 PK	74.0	-17.2	1.24 H	348	53.9	2.9
2	4799.52	47.2 AV	54.0	-6.8	1.24 H	348	44.3	2.9
3	5150.00	62.9 PK	74.0	-11.1	1.24 H	348	59.8	3.1
4	5150.00	50.3 AV	54.0	-3.7	1.24 H	348	47.2	3.1
5	*5210.00	109.1 PK			1.24 H	348	68.3	40.8
6	*5210.00	97.8 AV			1.24 H	348	57.0	40.8
7	#10420.00	56.0 PK	68.2	-12.2	2.00 H	183	46.8	9.2
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	4799.52	56.3 PK	74.0	-17.7	1.11 V	182	53.4	2.9
2	4799.52	45.2 AV	54.0	-8.8	1.11 V	182	42.3	2.9
3	5150.00	62.7 PK	74.0	-11.3	1.11 V	182	59.6	3.1
4	5150.00	50.5 AV	54.0	-3.5	1.11 V	182	47.4	3.1
5	*5210.00	112.0 PK			1.11 V	182	71.2	40.8
6	*5210.00	100.9 AV			1.11 V	182	60.1	40.8
7	#10420.00	55.6 PK	68.2	-12.6	1.52 V	118	46.4	9.2

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	4799.52	56.8 PK	74.0	-17.2	1.31 H	339	53.9	2.9
2	4799.52	45.8 AV	54.0	-8.2	1.31 H	339	42.9	2.9
3	5150.00	58.4 PK	74.0	-15.6	1.31 H	339	55.3	3.1
4	5150.00	46.1 AV	54.0	-7.9	1.31 H	339	43.0	3.1
5	*5260.00	117.7 PK			1.31 H	339	77.0	40.7
6	*5260.00	108.1 AV			1.31 H	339	67.4	40.7
7	#10520.00	59.0 PK	68.2	-9.2	2.04 H	182	49.3	9.7
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	4799.52	56.2 PK	74.0	-17.8	1.00 V	182	53.3	2.9
2	4799.52	46.2 AV	54.0	-7.8	1.00 V	182	43.3	2.9
3	5150.00	59.3 PK	74.0	-14.7	1.00 V	182	56.2	3.1
4	5150.00	45.7 AV	54.0	-8.3	1.00 V	182	42.6	3.1
5	*5260.00	120.4 PK			1.00 V	182	79.7	40.7
6	*5260.00	110.9 AV			1.00 V	182	70.2	40.7
7	#10520.00	58.2 PK	68.2	-10.0	1.62 V	122	48.5	9.7

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	802.11a	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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	4799.52	57.4 PK	74.0	-16.6	1.27 H	329	54.5	2.9
2	4799.52	46.8 AV	54.0	-7.2	1.27 H	329	43.9	2.9
3	*5300.00	119.5 PK			1.27 H	329	78.8	40.7
4	*5300.00	108.8 AV			1.27 H	329	68.1	40.7
5	5350.00	59.5 PK	74.0	-14.5	1.27 H	329	56.5	3.0
6	5350.00	48.0 AV	54.0	-6.0	1.27 H	329	45.0	3.0
7	10600.00	59.4 PK	74.0	-14.6	2.04 H	177	49.5	9.9
8	10600.00	47.6 AV	54.0	-6.4	2.04 H	177	37.7	9.9
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	4799.52	57.4 PK	74.0	-16.6	1.05 V	124	54.5	2.9
2	4799.52	48.1 AV	54.0	-5.9	1.05 V	124	45.2	2.9
3	*5300.00	121.5 PK			1.05 V	124	80.8	40.7
4	*5300.00	112.0 AV			1.05 V	124	71.3	40.7
5	5350.00	60.8 PK	74.0	-13.2	1.05 V	124	57.8	3.0
6	5350.00	48.8 AV	54.0	-5.2	1.05 V	124	45.8	3.0
7	10600.00	58.6 PK	74.0	-15.4	1.62 V	128	48.7	9.9
8	10600.00	46.9 AV	54.0	-7.1	1.62 V	128	37.0	9.9

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	4799.52	56.3 PK	74.0	-17.7	1.28 H	306	53.4	2.9
2	4799.52	46.6 AV	54.0	-7.4	1.28 H	306	43.7	2.9
3	*5320.00	116.8 PK			1.28 H	306	76.1	40.7
4	*5320.00	107.2 AV			1.28 H	306	66.5	40.7
5	5350.00	63.7 PK	74.0	-10.3	1.28 H	306	60.7	3.0
6	5350.00	49.7 AV	54.0	-4.3	1.28 H	306	46.7	3.0
7	10640.00	59.4 PK	74.0	-14.6	2.07 H	174	49.2	10.2
8	10640.00	47.7 AV	54.0	-6.3	2.07 H	174	37.5	10.2
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	4799.52	58.1 PK	74.0	-15.9	1.00 V	124	55.2	2.9
2	4799.52	49.6 AV	54.0	-4.4	1.00 V	124	46.7	2.9
3	*5320.00	119.6 PK			1.00 V	124	78.9	40.7
4	*5320.00	109.9 AV			1.00 V	124	69.2	40.7
5	5350.00	64.2 PK	74.0	-9.8	1.00 V	124	61.2	3.0
6	5350.00	50.6 AV	54.0	-3.4	1.00 V	124	47.6	3.0
7	10640.00	58.7 PK	74.0	-15.3	1.64 V	119	48.5	10.2
8	10640.00	47.0 AV	54.0	-7.0	1.64 V	119	36.8	10.2

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	4799.52	57.6 PK	74.0	-16.4	1.31 H	339	54.7	2.9
2	4799.52	46.5 AV	54.0	-7.5	1.31 H	339	43.6	2.9
3	5150.00	58.8 PK	74.0	-15.2	1.31 H	339	55.7	3.1
4	5150.00	46.7 AV	54.0	-7.3	1.31 H	339	43.6	3.1
5	*5260.00	120.8 PK			1.31 H	339	80.1	40.7
6	*5260.00	107.9 AV			1.31 H	339	67.2	40.7
7	#10520.00	58.6 PK	68.2	-9.6	2.04 H	182	48.9	9.7
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	4799.52	57.5 PK	74.0	-16.5	1.00 V	182	54.6	2.9
2	4799.52	45.4 AV	54.0	-8.6	1.00 V	182	42.5	2.9
3	5150.00	59.4 PK	74.0	-14.6	1.00 V	182	56.3	3.1
4	5150.00	45.8 AV	54.0	-8.2	1.00 V	182	42.7	3.1
5	*5260.00	124.0 PK			1.00 V	182	83.3	40.7
6	*5260.00	110.7 AV			1.00 V	182	70.0	40.7
7	#10520.00	57.8 PK	68.2	-10.4	1.62 V	122	48.1	9.7

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 (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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	4799.52	56.1 PK	74.0	-17.9	1.27 H	329	53.2	2.9
2	4799.52	46.8 AV	54.0	-7.2	1.27 H	329	43.9	2.9
3	*5300.00	120.5 PK			1.27 H	329	79.8	40.7
4	*5300.00	107.7 AV			1.27 H	329	67.0	40.7
5	5350.00	59.3 PK	74.0	-14.7	1.27 H	329	56.3	3.0
6	5350.00	47.6 AV	54.0	-6.4	1.27 H	329	44.6	3.0
7	10600.00	58.9 PK	74.0	-15.1	2.04 H	177	49.0	9.9
8	10600.00	47.2 AV	54.0	-6.8	2.04 H	177	37.3	9.9
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	4799.52	58.0 PK	74.0	-16.0	1.05 V	124	55.1	2.9
2	4799.52	48.9 AV	54.0	-5.1	1.05 V	124	46.0	2.9
3	*5300.00	122.9 PK			1.05 V	124	82.2	40.7
4	*5300.00	110.5 AV			1.05 V	124	69.8	40.7
5	5350.00	62.1 PK	74.0	-11.9	1.05 V	124	59.1	3.0
6	5350.00	49.3 AV	54.0	-4.7	1.05 V	124	46.3	3.0
7	10600.00	58.2 PK	74.0	-15.8	1.62 V	128	48.3	9.9
8	10600.00	46.4 AV	54.0	-7.6	1.62 V	128	36.5	9.9

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	4799.52	56.2 PK	74.0	-17.8	1.28 H	306	53.3	2.9
2	4799.52	46.7 AV	54.0	-7.3	1.28 H	306	43.8	2.9
3	*5320.00	117.8 PK			1.28 H	306	77.1	40.7
4	*5320.00	104.0 AV			1.28 H	306	63.3	40.7
5	5350.00	60.1 PK	74.0	-13.9	1.28 H	306	57.1	3.0
6	5350.00	48.1 AV	54.0	-5.9	1.28 H	306	45.1	3.0
7	10640.00	58.9 PK	74.0	-15.1	2.07 H	174	48.7	10.2
8	10640.00	47.2 AV	54.0	-6.8	2.07 H	174	37.0	10.2
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	4799.52	58.0 PK	74.0	-16.0	1.00 V	124	55.1	2.9
2	4799.52	49.9 AV	54.0	-4.1	1.00 V	124	47.0	2.9
3	*5320.00	120.6 PK			1.00 V	124	79.9	40.7
4	*5320.00	107.8 AV			1.00 V	124	67.1	40.7
5	5350.00	64.8 PK	74.0	-9.2	1.00 V	124	61.8	3.0
6	5350.00	50.9 AV	54.0	-3.1	1.00 V	124	47.9	3.0
7	10640.00	58.1 PK	74.0	-15.9	1.64 V	119	47.9	10.2
8	10640.00	46.3 AV	54.0	-7.7	1.64 V	119	36.1	10.2

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 (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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	4799.52	56.4 PK	74.0	-17.6	1.31 H	339	53.5	2.9
2	4799.52	46.5 AV	54.0	-7.5	1.31 H	339	43.6	2.9
3	5150.00	58.8 PK	74.0	-15.2	1.31 H	339	55.7	3.1
4	5150.00	45.8 AV	54.0	-8.2	1.31 H	339	42.7	3.1
5	*5270.00	116.0 PK			1.31 H	339	75.3	40.7
6	*5270.00	103.4 AV			1.31 H	339	62.7	40.7
7	5350.00	59.2 PK	74.0	-14.8	1.31 H	339	56.2	3.0
8	5350.00	47.3 AV	54.0	-6.7	1.31 H	339	44.3	3.0
9	#10540.00	56.8 PK	68.2	-11.4	2.04 H	182	47.0	9.8

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	4799.52	56.6 PK	74.0	-17.4	1.00 V	182	53.7	2.9
2	4799.52	46.4 AV	54.0	-7.6	1.00 V	182	43.5	2.9
3	5150.00	59.1 PK	74.0	-14.9	1.00 V	182	56.0	3.1
4	5150.00	46.0 AV	54.0	-8.0	1.00 V	182	42.9	3.1
5	*5270.00	119.1 PK			1.00 V	182	78.4	40.7
6	*5270.00	106.3 AV			1.00 V	182	65.6	40.7
7	5350.00	61.9 PK	74.0	-12.1	1.00 V	182	58.9	3.0
8	5350.00	49.8 AV	54.0	-4.2	1.00 V	182	46.8	3.0
9	#10540.00	56.0 PK	68.2	-12.2	1.62 V	122	46.2	9.8

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 (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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	4799.52	59.4 PK	74.0	-14.6	1.24 H	331	56.5	2.9
2	4799.52	48.8 AV	54.0	-5.2	1.24 H	331	45.9	2.9
3	*5310.00	114.0 PK			1.24 H	331	73.3	40.7
4	*5310.00	101.5 AV			1.24 H	331	60.8	40.7
5	5350.00	61.0 PK	74.0	-13.0	1.24 H	331	58.0	3.0
6	5350.00	49.1 AV	54.0	-4.9	1.24 H	331	46.1	3.0
7	10620.00	57.5 PK	74.0	-16.5	2.08 H	181	47.5	10.0
8	10620.00	45.7 AV	54.0	-8.3	2.08 H	181	35.7	10.0
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	4799.52	56.7 PK	74.0	-17.3	1.08 V	184	53.8	2.9
2	4799.52	45.6 AV	54.0	-8.4	1.08 V	184	42.7	2.9
3	*5310.00	116.8 PK			1.08 V	184	76.1	40.7
4	*5310.00	104.4 AV			1.08 V	184	63.7	40.7
5	5350.00	66.0 PK	74.0	-8.0	1.08 V	184	63.0	3.0
6	5350.00	49.6 AV	54.0	-4.4	1.08 V	184	46.6	3.0
7	10620.00	56.2 PK	74.0	-17.8	1.64 V	118	46.2	10.0
8	10620.00	44.8 AV	54.0	-9.2	1.64 V	118	34.8	10.0

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 (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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	4799.52	55.8 PK	74.0	-18.2	1.36 H	337	52.9	2.9
2	4799.52	45.6 AV	54.0	-8.4	1.36 H	337	42.7	2.9
3	*5290.00	111.3 PK			1.36 H	337	70.6	40.7
4	*5290.00	98.4 AV			1.36 H	337	57.7	40.7
5	5350.00	63.6 PK	74.0	-10.4	1.36 H	337	60.6	3.0
6	5350.00	48.3 AV	54.0	-5.7	1.36 H	337	45.3	3.0
7	#10580.00	56.0 PK	68.2	-12.2	2.07 H	179	46.2	9.8
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	4799.52	55.6 PK	74.0	-18.4	1.00 V	182	52.7	2.9
2	4799.52	45.2 AV	54.0	-8.8	1.00 V	182	42.3	2.9
3	*5290.00	113.6 PK			1.00 V	182	72.9	40.7
4	*5290.00	101.1 AV			1.00 V	182	60.4	40.7
5	5350.00	65.8 PK	74.0	-8.2	1.00 V	182	62.8	3.0
6	5350.00	50.5 AV	54.0	-3.5	1.00 V	182	47.5	3.0
7	#10580.00	56.4 PK	68.2	-11.8	1.62 V	123	46.6	9.8

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 (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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Tony Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4799.52	58.4 PK	74.0	-15.6	1.31 H	351	55.5	2.9
2	4799.52	47.3 AV	54.0	-6.7	1.31 H	351	44.4	2.9
3	5150.00	63.1 PK	74.0	-10.9	1.31 H	351	60.0	3.1
4	5150.00	49.9 AV	54.0	-4.1	1.31 H	351	46.8	3.1
5	*5250.00	104.0 PK			1.31 H	351	63.3	40.7
6	*5250.00	92.8 AV			1.31 H	351	52.1	40.7
7	5350.00	60.9 PK	74.0	-13.1	1.31 H	351	57.9	3.0
8	5350.00	38.2 AV	54.0	-15.8	1.31 H	351	35.2	3.0
9	#10500.00	56.4 PK	68.2	-11.8	2.01 H	177	46.8	9.6
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	4799.52	57.9 PK	74.0	-16.1	1.25 V	179	55.0	2.9
2	4799.52	46.1 AV	54.0	-7.9	1.25 V	179	43.2	2.9
3	5150.00	63.3 PK	74.0	-10.7	1.25 V	179	60.2	3.1
4	5150.00	50.9 AV	54.0	-3.1	1.25 V	179	47.8	3.1
5	*5250.00	110.0 PK			1.25 V	179	69.3	40.7
6	*5250.00	98.8 AV			1.25 V	179	58.1	40.7
7	5350.00	63.3 PK	74.0	-10.7	1.25 V	179	60.3	3.0
8	5350.00	49.2 AV	54.0	-4.8	1.25 V	179	46.2	3.0
9	#10500.00	56.6 PK	68.2	-11.6	2.01 V	183	47.0	9.6

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	802.11a	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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	58.1 PK	74.0	-15.9	1.21 H	308	55.0	3.1
2	5460.00	45.8 AV	54.0	-8.2	1.21 H	308	42.7	3.1
3	#5470.00	59.5 PK	68.2	-8.7	1.21 H	308	56.3	3.2
4	*5500.00	115.8 PK			1.21 H	308	74.8	41.0
5	*5500.00	106.0 AV			1.21 H	308	65.0	41.0
6	11000.00	59.8 PK	74.0	-14.2	2.07 H	169	49.6	10.2
7	11000.00	48.0 AV	54.0	-6.0	2.07 H	169	37.8	10.2
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	5460.00	59.3 PK	74.0	-14.7	1.03 V	124	56.2	3.1
2	5460.00	46.6 AV	54.0	-7.4	1.03 V	124	43.5	3.1
3	#5470.00	62.5 PK	68.2	-5.7	1.03 V	124	59.3	3.2
4	*5500.00	118.8 PK			1.03 V	124	77.8	41.0
5	*5500.00	109.0 AV			1.03 V	124	68.0	41.0
6	11000.00	59.0 PK	74.0	-15.0	1.67 V	122	48.8	10.2
7	11000.00	47.3 AV	54.0	-6.7	1.67 V	122	37.1	10.2

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 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	118.5 PK			1.41 H	273	77.2	41.3
2	*5580.00	108.3 AV			1.41 H	273	67.0	41.3
3	11160.00	59.7 PK	74.0	-14.3	2.17 H	155	49.8	9.9
4	11160.00	48.1 AV	54.0	-5.9	2.17 H	155	38.2	9.9
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	*5580.00	121.3 PK			1.04 V	117	80.0	41.3
2	*5580.00	111.2 AV			1.04 V	117	69.9	41.3
3	11160.00	59.1 PK	74.0	-14.9	1.41 V	125	49.2	9.9
4	11160.00	47.4 AV	54.0	-6.6	1.41 V	125	37.5	9.9

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	116.2 PK			1.47 H	273	74.4	41.8
2	*5700.00	106.3 AV			1.47 H	273	64.5	41.8
3	#5725.00	62.5 PK	68.2	-5.7	1.47 H	273	58.3	4.2
4	11400.00	58.9 PK	74.0	-15.1	2.18 H	153	48.1	10.8
5	11400.00	47.2 AV	54.0	-6.8	2.18 H	153	36.4	10.8
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	118.7 PK			1.04 V	99	76.9	41.8
2	*5700.00	109.1 AV			1.04 V	99	67.3	41.8
3	#5725.00	64.6 PK	68.2	-3.6	1.04 V	99	60.4	4.2
4	11400.00	58.1 PK	74.0	-15.9	1.41 V	126	47.3	10.8
5	11400.00	46.4 AV	54.0	-7.6	1.41 V	126	35.6	10.8

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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	58.4 PK	74.0	-15.6	1.42 H	278	55.3	3.1
2	5460.00	45.6 AV	54.0	-8.4	1.42 H	278	42.5	3.1
3	#5470.00	57.8 PK	68.2	-10.4	1.42 H	278	54.6	3.2
4	*5720.00	117.2 PK			1.42 H	278	75.3	41.9
5	*5720.00	107.1 AV			1.42 H	278	65.2	41.9
6	11440.00	60.7 PK	74.0	-13.3	2.17 H	149	49.9	10.8
7	11440.00	49.0 AV	54.0	-5.0	2.17 H	149	38.2	10.8
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	58.6 PK	74.0	-15.4	1.00 V	114	55.5	3.1
2	5460.00	46.0 AV	54.0	-8.0	1.00 V	114	42.9	3.1
3	#5470.00	57.9 PK	68.2	-10.3	1.00 V	114	54.7	3.2
4	*5720.00	120.5 PK			1.00 V	114	78.6	41.9
5	*5720.00	110.2 AV			1.00 V	114	68.3	41.9
6	11400.00	60.0 PK	74.0	-14.0	1.37 V	126	49.2	10.8
7	11400.00	48.3 AV	54.0	-5.7	1.37 V	126	37.5	10.8

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	58.7 PK	74.0	-15.3	1.21 H	308	55.6	3.1
2	5460.00	45.8 AV	54.0	-8.2	1.21 H	308	42.7	3.1
3	#5470.00	58.2 PK	68.2	-10.0	1.21 H	308	55.0	3.2
4	*5500.00	116.4 PK			1.21 H	308	75.4	41.0
5	*5500.00	105.5 AV			1.21 H	308	64.5	41.0
6	11000.00	59.1 PK	74.0	-14.9	2.07 H	169	48.9	10.2
7	11000.00	47.3 AV	54.0	-6.7	2.07 H	169	37.1	10.2
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	5460.00	58.4 PK	74.0	-15.6	1.03 V	147	55.3	3.1
2	5460.00	45.9 AV	54.0	-8.1	1.03 V	147	42.8	3.1
3	#5470.00	58.4 PK	68.2	-9.8	1.03 V	147	55.2	3.2
4	*5500.00	119.6 PK			1.03 V	147	78.6	41.0
5	*5500.00	108.3 AV			1.03 V	147	67.3	41.0
6	11000.00	58.2 PK	74.0	-15.8	1.67 V	122	48.0	10.2
7	11000.00	46.8 AV	54.0	-7.2	1.67 V	122	36.6	10.2

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 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	118.2 PK			1.41 H	273	76.9	41.3
2	*5580.00	107.0 AV			1.41 H	273	65.7	41.3
3	11160.00	59.3 PK	74.0	-14.7	2.17 H	155	49.4	9.9
4	11160.00	47.6 AV	54.0	-6.4	2.17 H	155	37.7	9.9
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	*5580.00	121.1 PK			1.04 V	117	79.8	41.3
2	*5580.00	109.7 AV			1.04 V	117	68.4	41.3
3	11160.00	58.7 PK	74.0	-15.3	1.41 V	125	48.8	9.9
4	11160.00	46.9 AV	54.0	-7.1	1.41 V	125	37.0	9.9

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	116.2 PK			1.47 H	273	74.4	41.8
2	*5700.00	104.6 AV			1.47 H	273	62.8	41.8
3	#5725.00	59.6 PK	68.2	-8.6	1.47 H	273	55.4	4.2
4	11400.00	57.3 PK	74.0	-16.7	2.18 H	153	46.5	10.8
5	11400.00	45.7 AV	54.0	-8.3	2.18 H	153	34.9	10.8
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	118.2 PK			1.04 V	99	76.4	41.8
2	*5700.00	107.2 AV			1.04 V	99	65.4	41.8
3	#5725.00	59.5 PK	68.2	-8.7	1.04 V	99	55.3	4.2
4	11400.00	56.9 PK	74.0	-17.1	1.41 V	126	46.1	10.8
5	11400.00	45.0 AV	54.0	-9.0	1.41 V	126	34.2	10.8

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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	58.2 PK	74.0	-15.8	1.42 H	278	55.1	3.1
2	5460.00	45.7 AV	54.0	-8.3	1.42 H	278	42.6	3.1
3	#5470.00	57.5 PK	68.2	-10.7	1.42 H	278	54.3	3.2
4	*5720.00	118.2 PK			1.42 H	278	76.3	41.9
5	*5720.00	106.7 AV			1.42 H	278	64.8	41.9
6	11440.00	60.2 PK	74.0	-13.8	2.17 H	149	49.4	10.8
7	11440.00	48.6 AV	54.0	-5.4	2.17 H	149	37.8	10.8
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	59.6 PK	74.0	-14.4	1.00 V	114	56.5	3.1
2	5460.00	45.8 AV	54.0	-8.2	1.00 V	114	42.7	3.1
3	#5470.00	58.2 PK	68.2	-10.0	1.00 V	114	55.0	3.2
4	*5720.00	120.7 PK			1.00 V	114	78.8	41.9
5	*5720.00	109.5 AV			1.00 V	114	67.6	41.9
6	11400.00	59.6 PK	74.0	-14.4	1.37 V	126	48.8	10.8
7	11400.00	47.9 AV	54.0	-6.1	1.37 V	126	37.1	10.8

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 (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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	58.8 PK	74.0	-15.2	1.25 H	317	55.7	3.1
2	5460.00	46.2 AV	54.0	-7.8	1.25 H	317	43.1	3.1
3	#5470.00	59.7 PK	68.2	-8.5	1.25 H	317	56.5	3.2
4	*5510.00	113.1 PK			1.25 H	317	72.1	41.0
5	*5510.00	102.0 AV			1.25 H	317	61.0	41.0
6	11020.00	57.2 PK	74.0	-16.8	2.07 H	164	47.1	10.1
7	11020.00	45.4 AV	54.0	-8.6	2.07 H	164	35.3	10.1
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	5460.00	59.2 PK	74.0	-14.8	1.01 V	146	56.1	3.1
2	5460.00	46.9 AV	54.0	-7.1	1.01 V	146	43.8	3.1
3	#5470.00	60.0 PK	68.2	-8.2	1.01 V	146	56.8	3.2
4	*5510.00	115.8 PK			1.01 V	146	74.8	41.0
5	*5510.00	105.0 AV			1.01 V	146	64.0	41.0
6	11020.00	56.8 PK	74.0	-17.2	1.67 V	120	46.7	10.1
7	11020.00	44.7 AV	54.0	-9.3	1.67 V	120	34.6	10.1

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 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	5460.00	61.0 PK	74.0	-13.0	1.27 H	312	57.9	3.1
2	5460.00	47.8 AV	54.0	-6.2	1.27 H	312	44.7	3.1
3	#5470.00	62.6 PK	68.2	-5.6	1.27 H	312	59.4	3.2
4	*5550.00	115.1 PK			1.27 H	312	74.1	41.0
5	*5550.00	104.3 AV			1.27 H	312	63.3	41.0
6	11100.00	59.3 PK	74.0	-14.7	2.09 H	161	49.4	9.9
7	11100.00	47.4 AV	54.0	-6.6	2.09 H	161	37.5	9.9
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	5460.00	60.9 PK	74.0	-13.1	1.01 V	148	57.8	3.1
2	5460.00	47.9 AV	54.0	-6.1	1.01 V	148	44.8	3.1
3	#5470.00	62.8 PK	68.2	-5.4	1.01 V	148	59.6	3.2
4	*5550.00	117.9 PK			1.01 V	148	76.9	41.0
5	*5550.00	107.2 AV			1.01 V	148	66.2	41.0
6	11100.00	57.7 PK	74.0	-16.3	1.65 V	121	47.8	9.9
7	11100.00	46.4 AV	54.0	-7.6	1.65 V	121	36.5	9.9

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	113.4 PK			1.28 H	304	71.6	41.8
2	*5670.00	102.0 AV			1.28 H	304	60.2	41.8
3	#5725.00	60.7 PK	68.2	-7.5	1.28 H	304	56.5	4.2
4	11340.00	58.0 PK	74.0	-16.0	2.08 H	164	47.4	10.6
5	11340.00	46.0 AV	54.0	-8.0	2.08 H	164	35.4	10.6
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	*5670.00	116.2 PK			1.06 V	114	74.4	41.8
2	*5670.00	104.6 AV			1.06 V	114	62.8	41.8
3	#5725.00	61.0 PK	68.2	-7.2	1.06 V	114	56.8	4.2
4	11340.00	57.3 PK	74.0	-16.7	1.69 V	121	46.7	10.6
5	11340.00	45.0 AV	54.0	-9.0	1.69 V	121	34.4	10.6

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	58.7 PK	74.0	-15.3	1.42 H	277	55.6	3.1
2	5460.00	45.7 AV	54.0	-8.3	1.42 H	277	42.6	3.1
3	#5470.00	57.0 PK	68.2	-11.2	1.42 H	277	53.8	3.2
4	*5710.00	116.3 PK			1.42 H	277	74.4	41.9
5	*5710.00	104.7 AV			1.42 H	277	62.8	41.9
6	11420.00	59.7 PK	74.0	-14.3	2.17 H	145	48.8	10.9
7	11420.00	48.0 AV	54.0	-6.0	2.17 H	145	37.1	10.9
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	5460.00	58.7 PK	74.0	-15.3	1.12 V	114	55.6	3.1
2	5460.00	45.8 AV	54.0	-8.2	1.12 V	114	42.7	3.1
3	#5470.00	58.0 PK	68.2	-10.2	1.12 V	114	54.8	3.2
4	*5710.00	119.1 PK			1.12 V	114	77.2	41.9
5	*5710.00	107.6 AV			1.12 V	114	65.7	41.9
6	11420.00	59.3 PK	74.0	-14.7	1.39 V	126	48.4	10.9
7	11420.00	49.6 AV	54.0	-4.4	1.39 V	126	38.7	10.9

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	58.8 PK	74.0	-15.2	1.41 H	279	55.7	3.1
2	5460.00	46.6 AV	54.0	-7.4	1.41 H	279	43.5	3.1
3	#5470.00	59.4 PK	68.2	-8.8	1.41 H	279	56.2	3.2
4	*5530.00	110.2 PK			1.41 H	279	69.3	40.9
5	*5530.00	98.9 AV			1.41 H	279	58.0	40.9
6	11060.00	56.3 PK	74.0	-17.7	2.09 H	154	46.3	10.0
7	11060.00	44.2 AV	54.0	-9.8	2.09 H	154	34.2	10.0
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	5460.00	60.2 PK	74.0	-13.8	1.21 V	124	57.1	3.1
2	5460.00	47.6 AV	54.0	-6.4	1.21 V	124	44.5	3.1
3	#5470.00	59.5 PK	68.2	-8.7	1.21 V	124	56.3	3.2
4	*5530.00	113.3 PK			1.21 V	124	72.4	40.9
5	*5530.00	101.8 AV			1.21 V	124	60.9	40.9
6	11060.00	56.1 PK	74.0	-17.9	1.57 V	122	46.1	10.0
7	11060.00	43.9 AV	54.0	-10.1	1.57 V	122	33.9	10.0

Remarks:

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

RF Mode	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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	58.6 PK	74.0	-15.4	1.47 H	274	55.5	3.1
2	5460.00	46.2 AV	54.0	-7.8	1.47 H	274	43.1	3.1
3	#5470.00	58.7 PK	68.2	-9.5	1.47 H	274	55.5	3.2
4	*5610.00	113.0 PK			1.47 H	274	71.4	41.6
5	*5610.00	101.2 AV			1.47 H	274	59.6	41.6
6	#5725.00	62.8 PK	68.2	-5.4	1.47 H	274	58.6	4.2
7	11220.00	56.6 PK	74.0	-17.4	2.12 H	157	46.5	10.1
8	11220.00	44.3 AV	54.0	-9.7	2.12 H	157	34.2	10.1
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	5460.00	59.6 PK	74.0	-14.4	1.10 V	111	56.5	3.1
2	5460.00	46.8 AV	54.0	-7.2	1.10 V	111	43.7	3.1
3	#5470.00	59.7 PK	68.2	-8.5	1.10 V	111	56.5	3.2
4	*5610.00	115.2 PK			1.10 V	111	73.6	41.6
5	*5610.00	103.7 AV			1.10 V	111	62.1	41.6
6	#5725.00	63.2 PK	68.2	-5.0	1.10 V	111	59.0	4.2
7	11220.00	56.4 PK	74.0	-17.6	1.48 V	125	46.3	10.1
8	11220.00	44.3 AV	54.0	-9.7	1.48 V	125	34.2	10.1

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 (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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	58.3 PK	74.0	-15.7	1.42 H	277	55.2	3.1
2	5460.00	45.8 AV	54.0	-8.2	1.42 H	277	42.7	3.1
3	#5470.00	57.9 PK	68.2	-10.3	1.42 H	277	54.7	3.2
4	*5690.00	113.2 PK			1.42 H	277	71.4	41.8
5	*5690.00	101.8 AV			1.42 H	277	60.0	41.8
6	#5850.00	63.2 PK	68.2	-5.0	1.42 H	277	59.0	4.2
7	11380.00	58.4 PK	74.0	-15.6	2.17 H	143	47.7	10.7
8	11380.00	46.7 AV	54.0	-7.3	2.17 H	143	36.0	10.7
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	59.3 PK	74.0	-14.7	1.12 V	114	56.2	3.1
2	5460.00	46.2 AV	54.0	-7.8	1.12 V	114	43.1	3.1
3	#5470.00	57.9 PK	68.2	-10.3	1.12 V	114	54.7	3.2
4	*5690.00	116.1 PK			1.12 V	114	74.3	41.8
5	*5690.00	104.6 AV			1.12 V	114	62.8	41.8
6	#5850.00	64.6 PK	68.2	-3.6	1.12 V	114	60.4	4.2
7	11380.00	57.4 PK	74.0	-16.6	1.39 V	126	46.7	10.7
8	11380.00	45.7 AV	54.0	-8.3	1.39 V	126	35.0	10.7

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 (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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Tony Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.1 PK	74.0	-9.9	1.00 H	255	61.0	3.1
2	5460.00	50.6 AV	54.0	-3.4	1.00 H	255	47.5	3.1
3	#5470.00	64.4 PK	68.2	-3.8	1.00 H	255	61.2	3.2
4	*5570.00	108.2 PK			1.00 H	255	67.0	41.2
5	*5570.00	97.3 AV			1.00 H	255	56.1	41.2
6	#5725.00	61.6 PK	68.2	-6.6	1.00 H	255	57.4	4.2
7	11140.00	56.5 PK	74.0	-17.5	2.15 H	153	46.5	10.0
8	11140.00	44.4 AV	54.0	-9.6	2.15 H	153	34.4	10.0
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	5460.00	63.2 PK	74.0	-10.8	1.34 V	122	60.1	3.1
2	5460.00	50.6 AV	54.0	-3.4	1.34 V	122	47.5	3.1
3	#5470.00	63.3 PK	68.2	-4.9	1.34 V	122	60.1	3.2
4	*5570.00	110.6 PK			1.34 V	122	69.4	41.2
5	*5570.00	98.4 AV			1.34 V	122	57.2	41.2
6	#5725.00	62.3 PK	68.2	-5.9	1.34 V	122	58.1	4.2
7	11140.00	56.1 PK	74.0	-17.9	1.42 V	127	46.1	10.0
8	11140.00	44.1 AV	54.0	-9.9	1.42 V	127	34.1	10.0

Remarks:

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

RF Mode	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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	*5745.00	117.3 PK			1.49 H	271	75.4	41.9
2	*5745.00	107.5 AV			1.49 H	271	65.6	41.9
3	11490.00	60.9 PK	74.0	-13.1	2.18 H	147	50.1	10.8
4	11490.00	49.2 AV	54.0	-4.8	2.18 H	147	38.4	10.8
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	*5745.00	119.9 PK			1.02 V	102	78.0	41.9
2	*5745.00	104.4 AV			1.02 V	102	62.5	41.9
3	11490.00	60.2 PK	74.0	-13.8	1.41 V	126	49.4	10.8
4	11490.00	48.5 AV	54.0	-5.5	1.41 V	126	37.7	10.8

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	*5785.00	118.4 PK			1.44 H	279	76.3	42.1
2	*5785.00	108.3 AV			1.44 H	279	66.2	42.1
3	11570.00	60.7 PK	74.0	-13.3	2.09 H	155	49.9	10.8
4	11570.00	48.9 AV	54.0	-5.1	2.09 H	155	38.1	10.8
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	*5785.00	120.6 PK			1.03 V	100	78.5	42.1
2	*5785.00	111.3 AV			1.03 V	100	69.2	42.1
3	11570.00	60.0 PK	74.0	-14.0	1.42 V	131	49.2	10.8
4	11570.00	48.4 AV	54.0	-5.6	1.42 V	131	37.6	10.8

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	*5825.00	117.4 PK			1.41 H	282	75.4	42.0
2	*5825.00	107.5 AV			1.41 H	282	65.5	42.0
3	11650.00	61.0 PK	74.0	-13.0	2.04 H	153	50.3	10.7
4	11650.00	49.2 AV	54.0	-4.8	2.04 H	153	38.5	10.7
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	*5825.00	119.9 PK			1.03 V	102	77.9	42.0
2	*5825.00	110.6 AV			1.03 V	102	68.6	42.0
3	11650.00	60.2 PK	74.0	-13.8	1.45 V	131	49.5	10.7
4	11650.00	48.7 AV	54.0	-5.3	1.45 V	131	38.0	10.7

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 (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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	*5745.00	118.3 PK			1.49 H	271	76.4	41.9
2	*5745.00	106.8 AV			1.49 H	271	64.9	41.9
3	11490.00	60.6 PK	74.0	-13.4	2.18 H	147	49.8	10.8
4	11490.00	48.9 AV	54.0	-5.1	2.18 H	147	38.1	10.8
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	*5745.00	120.9 PK			1.02 V	102	79.0	41.9
2	*5745.00	109.6 AV			1.02 V	102	67.7	41.9
3	11490.00	60.0 PK	74.0	-14.0	1.41 V	126	49.2	10.8
4	11490.00	48.3 AV	54.0	-5.7	1.41 V	126	37.5	10.8

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	*5785.00	118.9 PK			1.44 H	279	76.8	42.1
2	*5785.00	107.7 AV			1.44 H	279	65.6	42.1
3	11570.00	60.0 PK	74.0	-14.0	2.09 H	155	49.2	10.8
4	11570.00	48.2 AV	54.0	-5.8	2.09 H	155	37.4	10.8
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	*5785.00	121.8 PK			1.03 V	100	79.7	42.1
2	*5785.00	110.5 AV			1.03 V	100	68.4	42.1
3	11570.00	59.4 PK	74.0	-14.6	1.42 V	131	48.6	10.8
4	11570.00	47.9 AV	54.0	-6.1	1.42 V	131	37.1	10.8

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	*5825.00	118.2 PK			1.41 H	282	76.2	42.0
2	*5825.00	107.2 AV			1.41 H	282	65.2	42.0
3	11650.00	60.5 PK	74.0	-13.5	2.04 H	153	49.8	10.7
4	11650.00	48.7 AV	54.0	-5.3	2.04 H	153	38.0	10.7
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	*5825.00	121.2 PK			1.03 V	102	79.2	42.0
2	*5825.00	110.0 AV			1.03 V	102	68.0	42.0
3	11650.00	59.8 PK	74.0	-14.2	1.45 V	131	49.1	10.7
4	11650.00	48.3 AV	54.0	-5.7	1.45 V	131	37.6	10.7

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 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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	*5755.00	117.2 PK			1.49 H	271	75.2	42.0
2	*5755.00	105.5 AV			1.49 H	271	63.5	42.0
3	11510.00	60.1 PK	74.0	-13.9	2.18 H	147	49.3	10.8
4	11510.00	48.3 AV	54.0	-5.7	2.18 H	147	37.5	10.8
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	*5755.00	119.8 PK			1.02 V	102	77.8	42.0
2	*5755.00	108.5 AV			1.02 V	102	66.5	42.0
3	11510.00	59.4 PK	74.0	-14.6	1.41 V	126	48.6	10.8
4	11510.00	47.7 AV	54.0	-6.3	1.41 V	126	36.9	10.8

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 (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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	*5795.00	116.9 PK			1.43 H	278	74.8	42.1
2	*5795.00	106.1 AV			1.43 H	278	64.0	42.1
3	11590.00	60.6 PK	74.0	-13.4	2.18 H	152	49.7	10.9
4	11590.00	48.8 AV	54.0	-5.2	2.18 H	152	37.9	10.9
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	*5795.00	119.8 PK			1.02 V	100	77.7	42.1
2	*5795.00	108.8 AV			1.02 V	100	66.7	42.1
3	11590.00	59.7 PK	74.0	-14.3	1.42 V	126	48.8	10.9
4	11590.00	48.0 AV	54.0	-6.0	1.42 V	126	37.1	10.9

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 (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=1 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	*5775.00	112.2 PK			1.41 H	276	70.1	42.1
2	*5775.00	100.9 AV			1.41 H	276	58.8	42.1
3	11550.00	59.9 PK	74.0	-14.1	2.16 H	157	49.1	10.8
4	11550.00	48.3 AV	54.0	-5.7	2.16 H	157	37.5	10.8
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	*5775.00	115.3 PK			1.00 V	115	73.2	42.1
2	*5775.00	103.9 AV			1.00 V	115	61.8	42.1
3	11550.00	58.2 PK	74.0	-15.8	1.42 V	130	47.4	10.8
4	11550.00	46.5 AV	54.0	-7.5	1.42 V	130	35.7	10.8

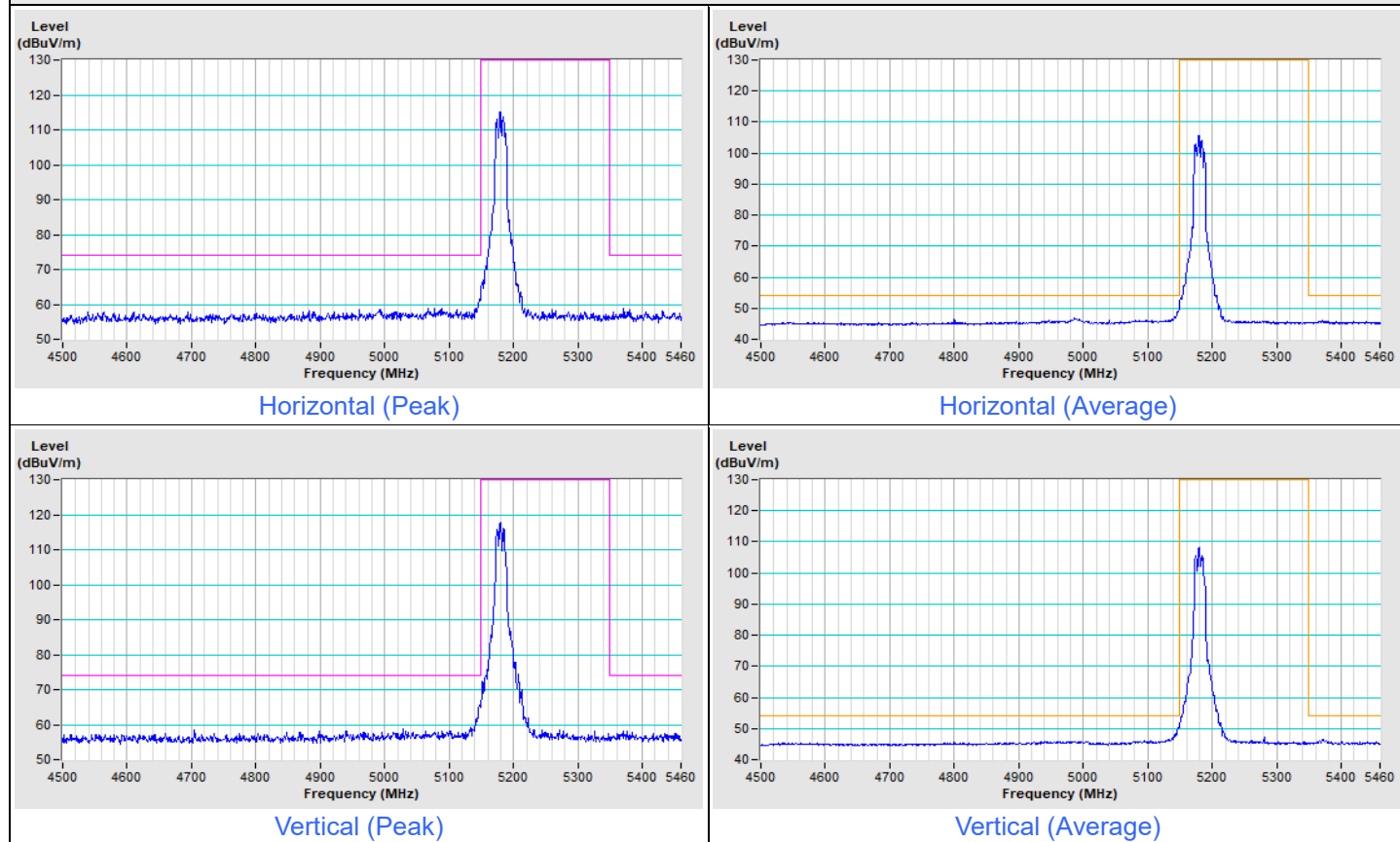
Remarks:

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.

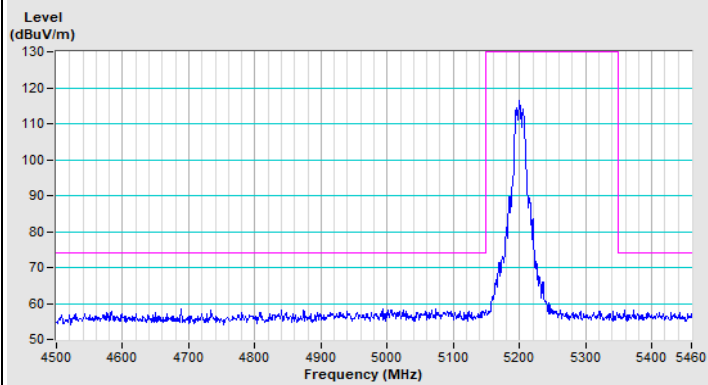
Plot of Band Edge

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=1 kHz, DET=Peak
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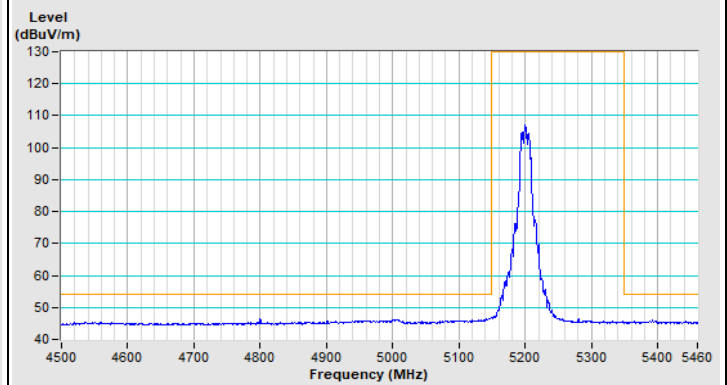
802.11a Channel 36



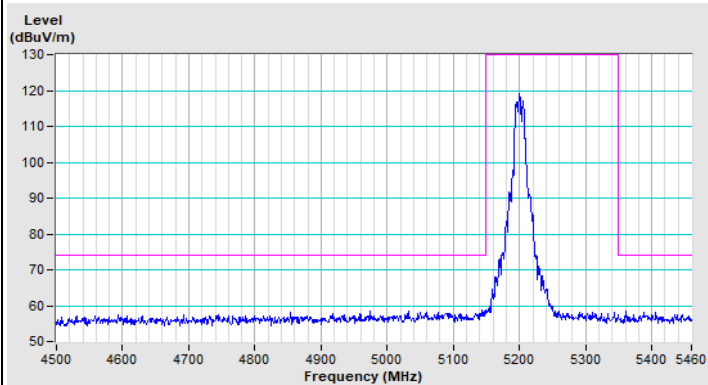
802.11a Channel 40



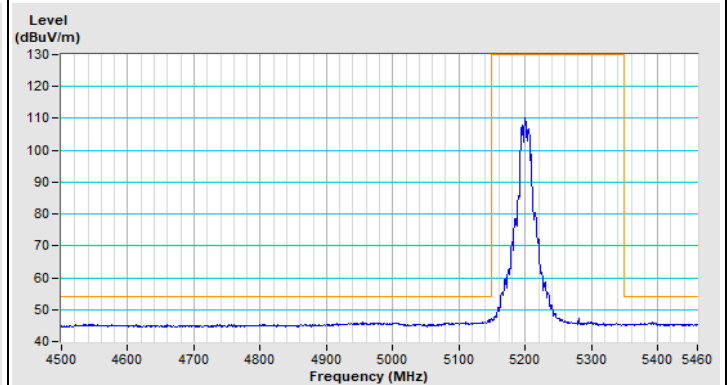
Horizontal (Peak)



Horizontal (Average)

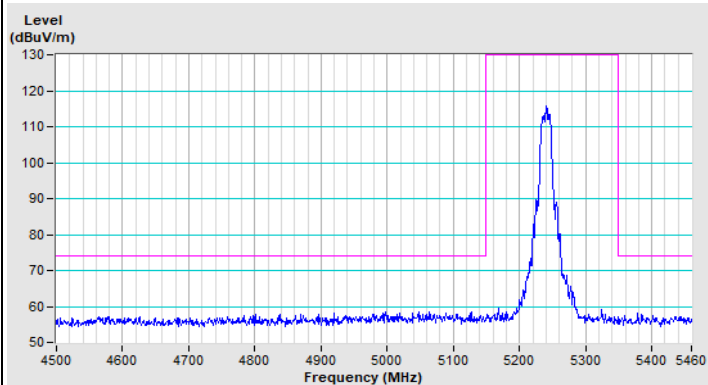


Vertical (Peak)

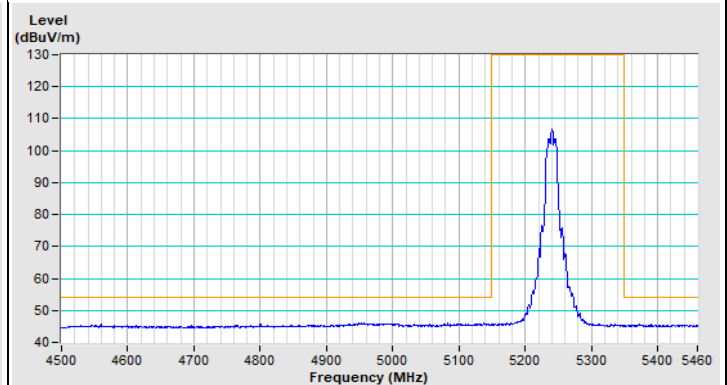


Vertical (Average)

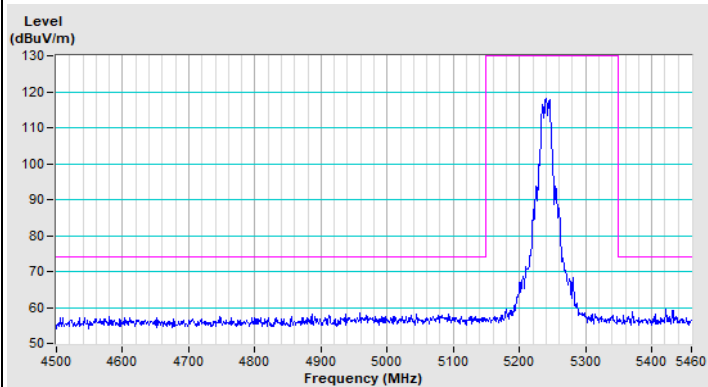
802.11a Channel 48



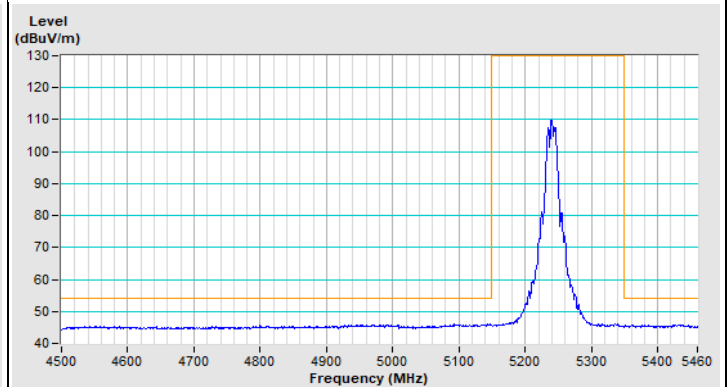
Horizontal (Peak)



Horizontal (Average)



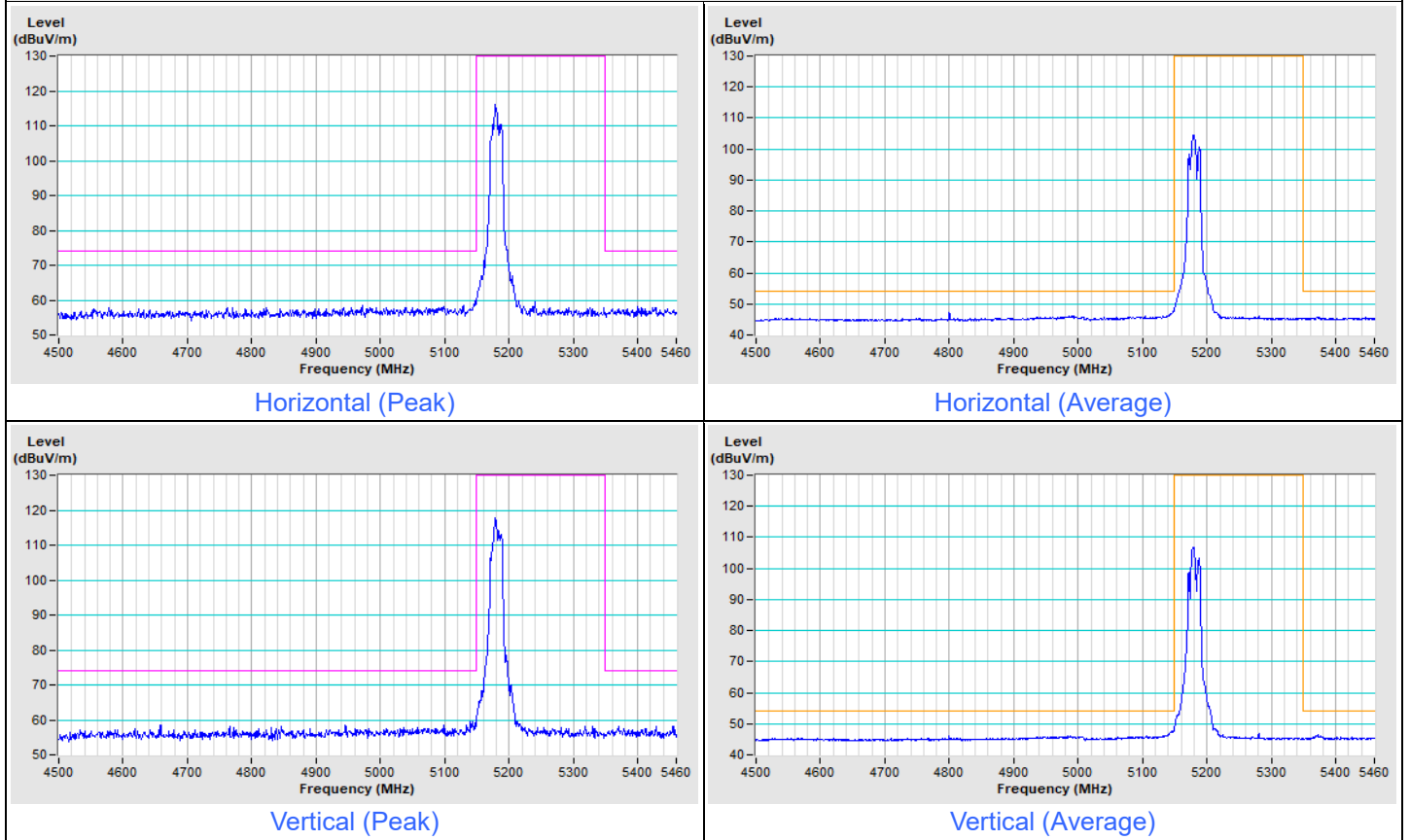
Vertical (Peak)



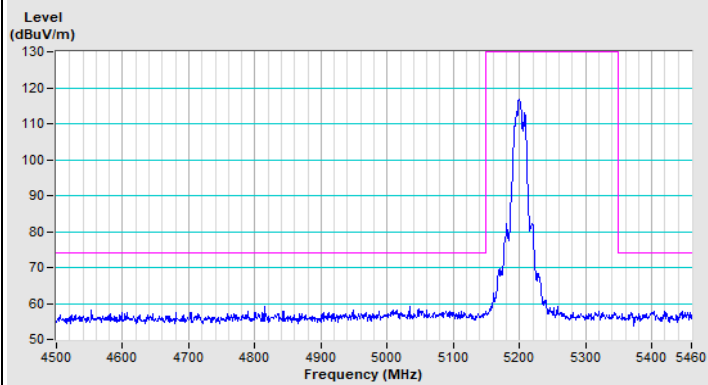
Vertical (Average)

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=1 kHz, DET=Peak
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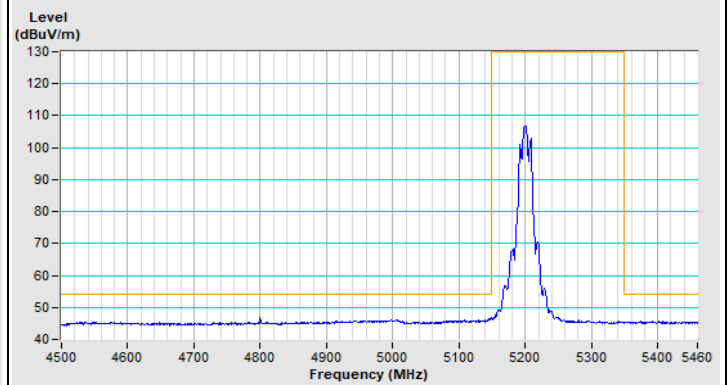
802.11ac (VHT20) Channel 36



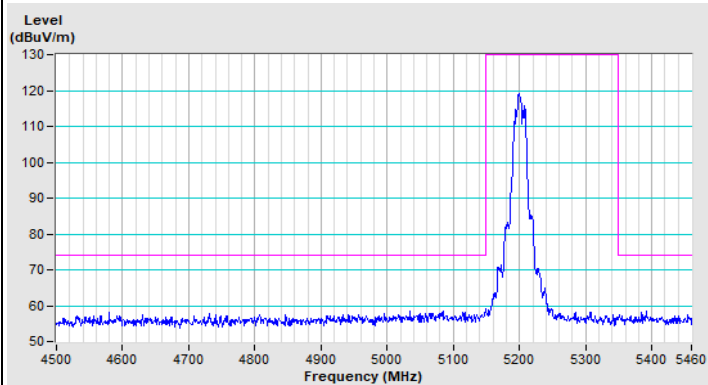
802.11ac (VHT20) Channel 40



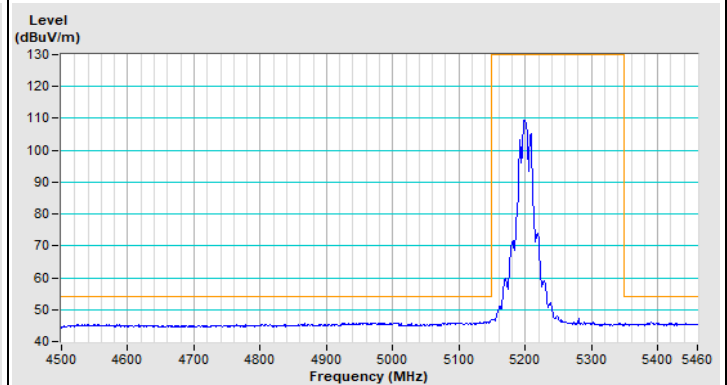
Horizontal (Peak)



Horizontal (Average)

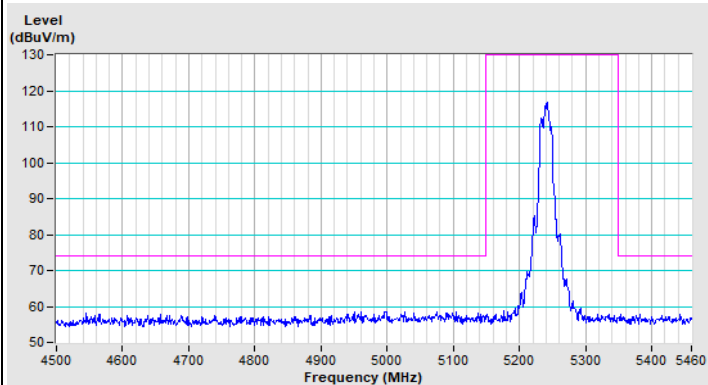


Vertical (Peak)

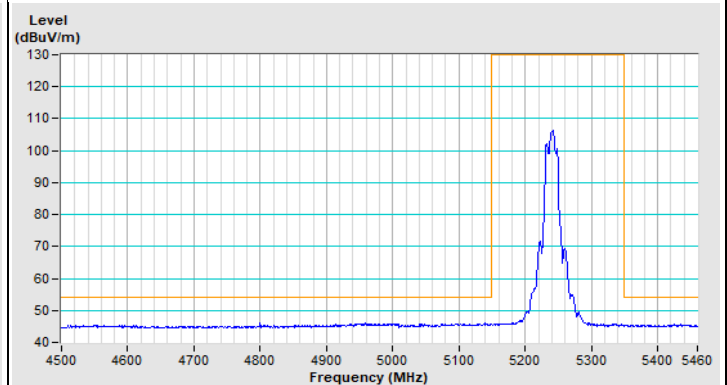


Vertical (Average)

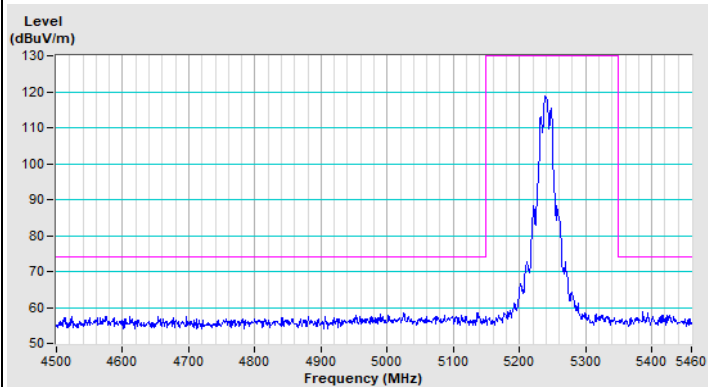
802.11ac (VHT20) Channel 48



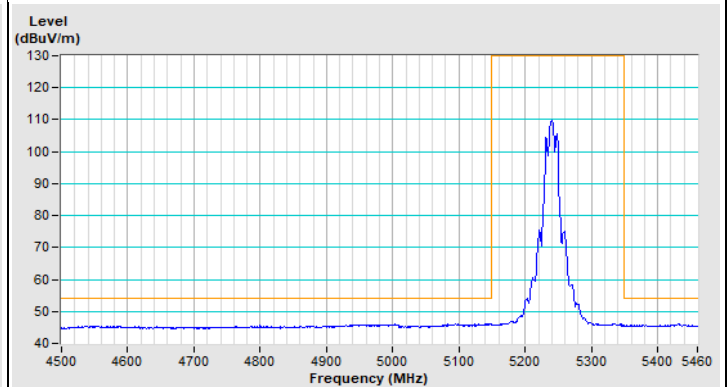
Horizontal (Peak)



Horizontal (Average)



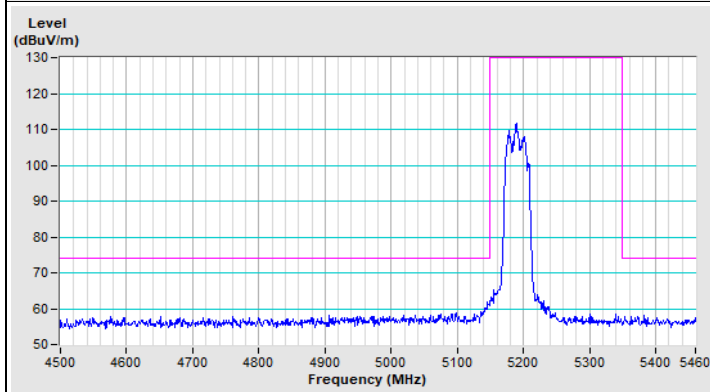
Vertical (Peak)



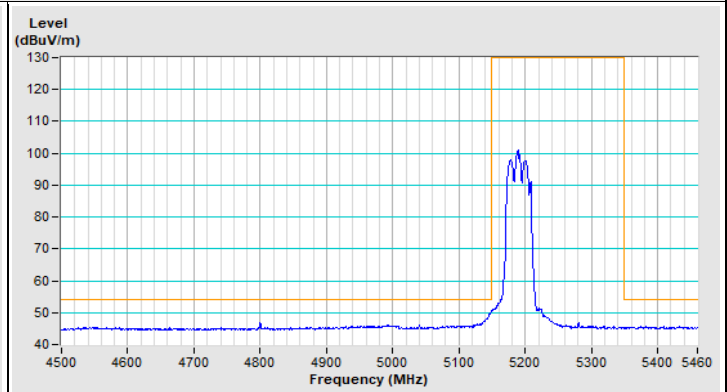
Vertical (Average)

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=1 kHz, DET=Peak
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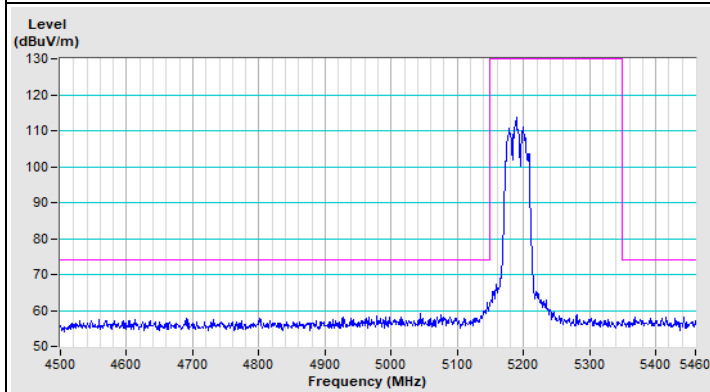
802.11ac (VHT40) Channel 38



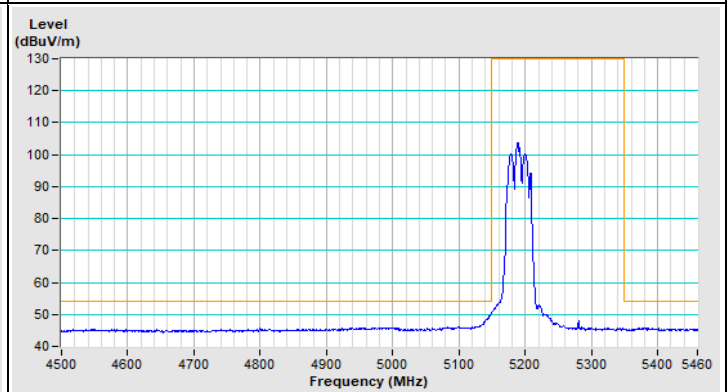
Horizontal (Peak)



Horizontal (Average)

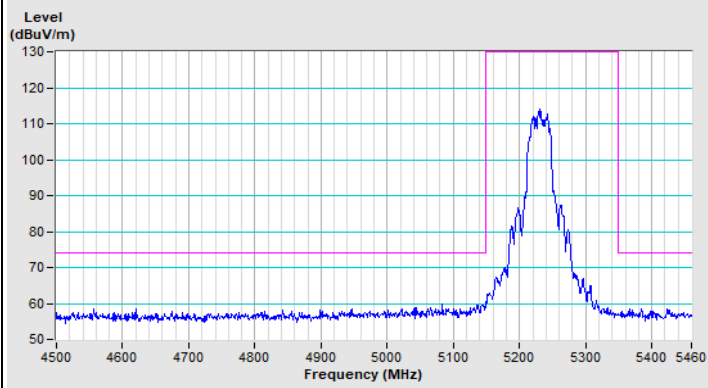


Vertical (Peak)

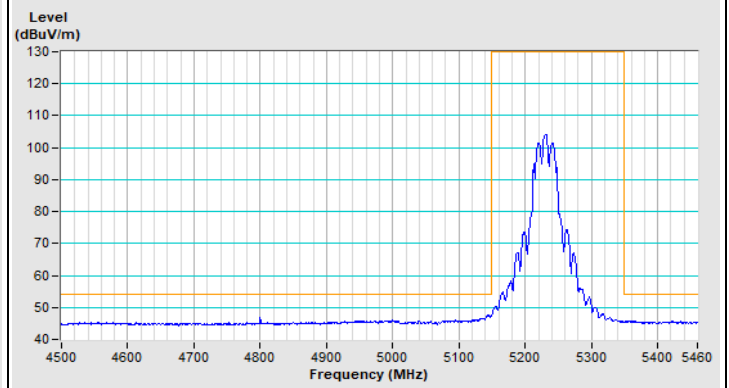


Vertical (Average)

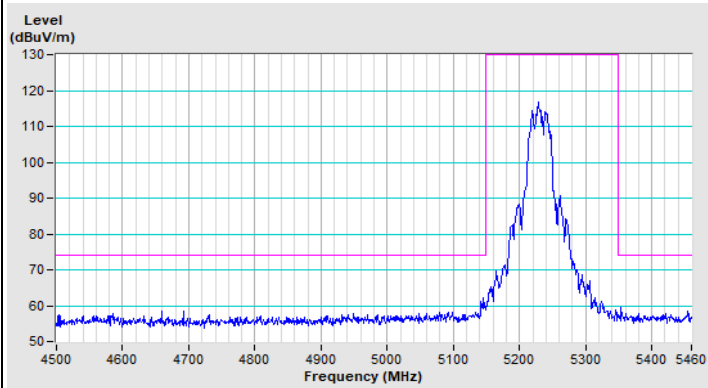
802.11ac (VHT40) Channel 46



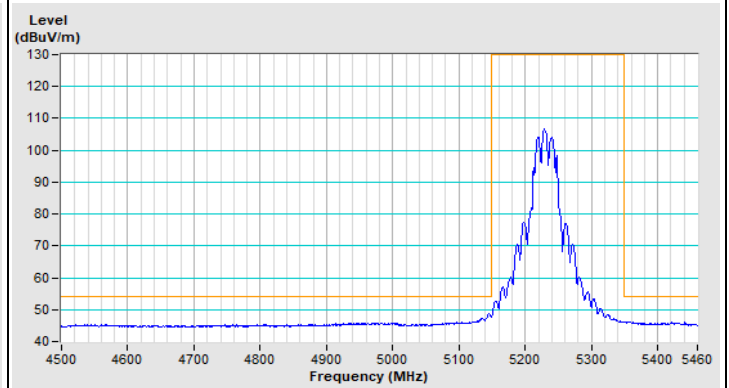
Horizontal (Peak)



Horizontal (Average)



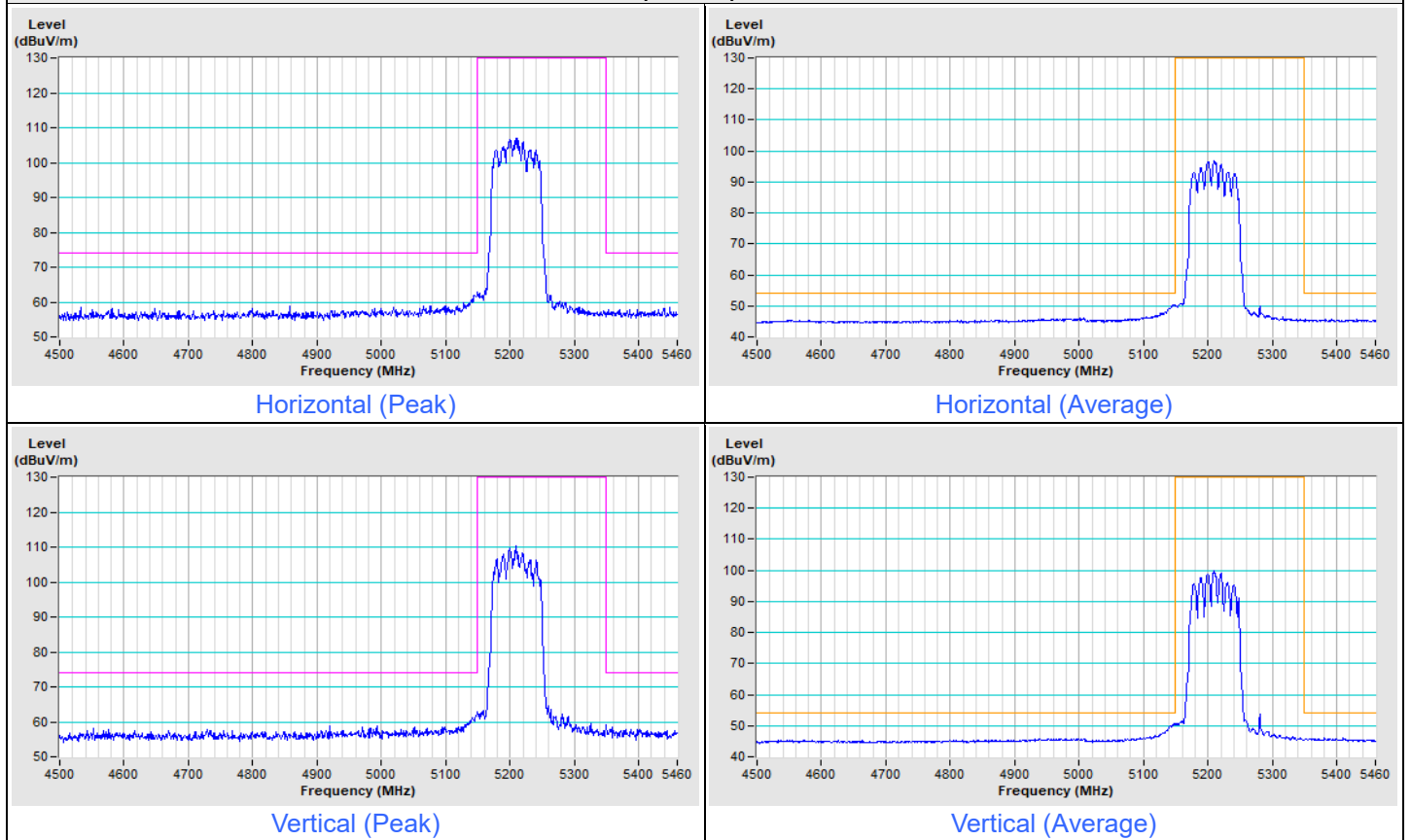
Vertical (Peak)



Vertical (Average)

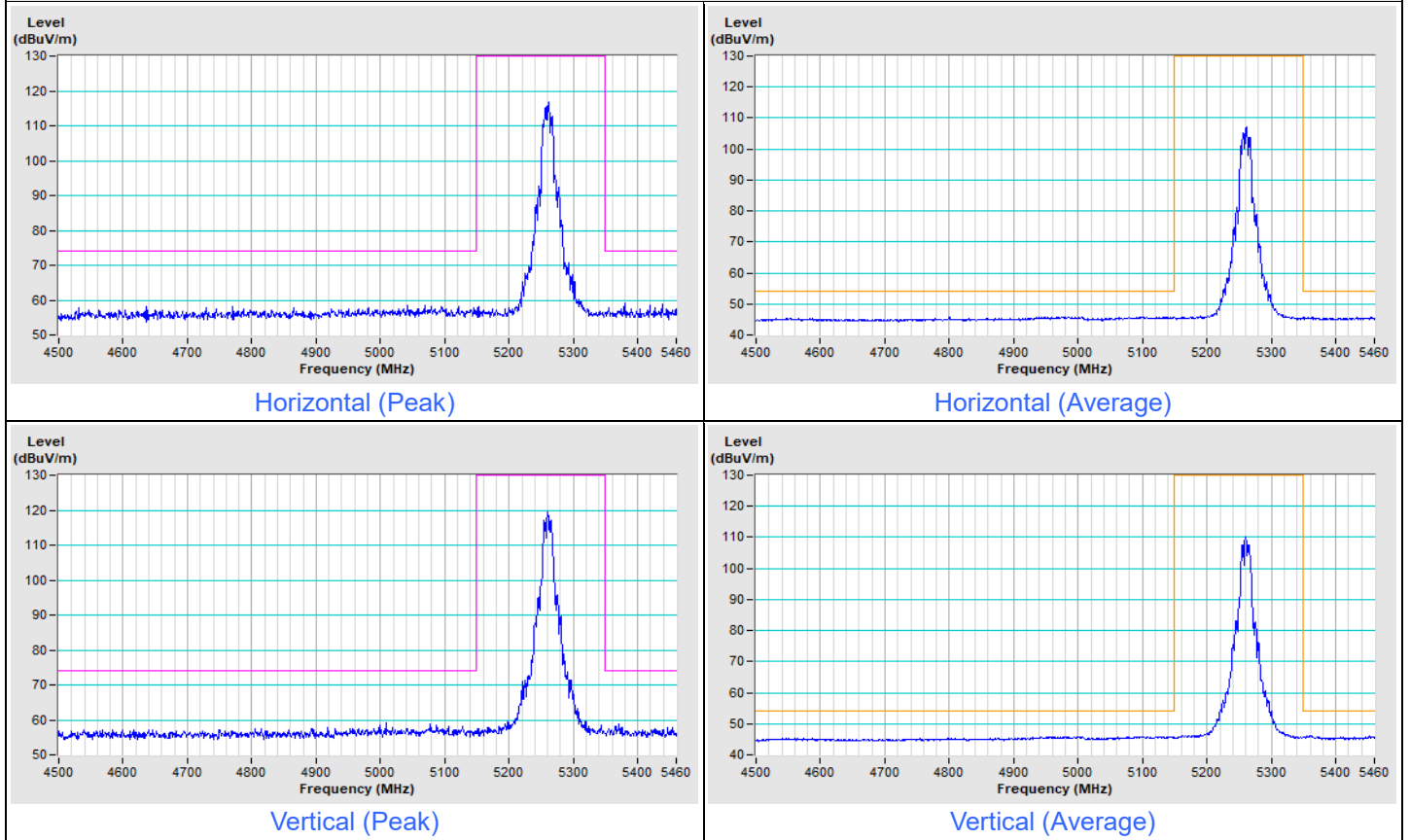
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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802.11ac (VHT80) Channel 42

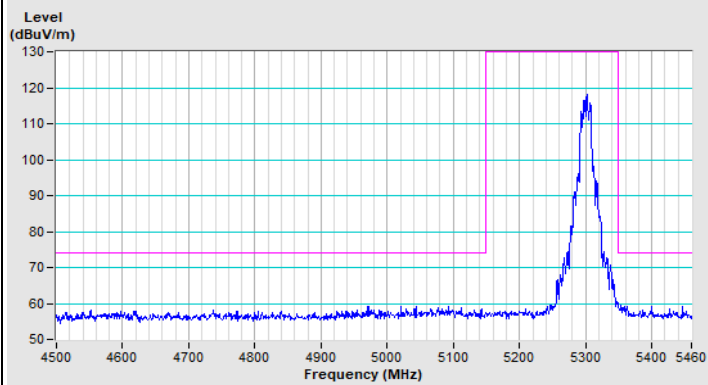


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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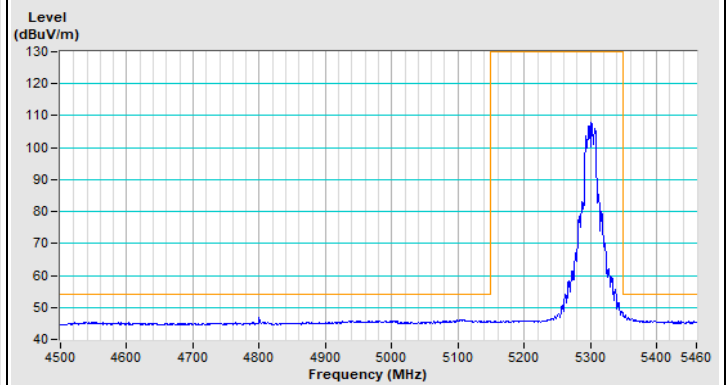
802.11a Channel 52



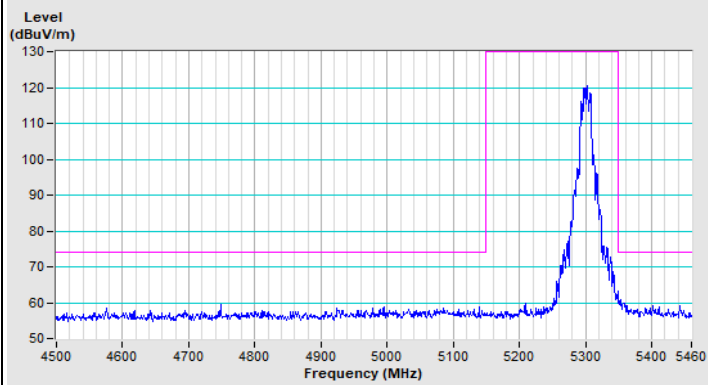
802.11a Channel 60



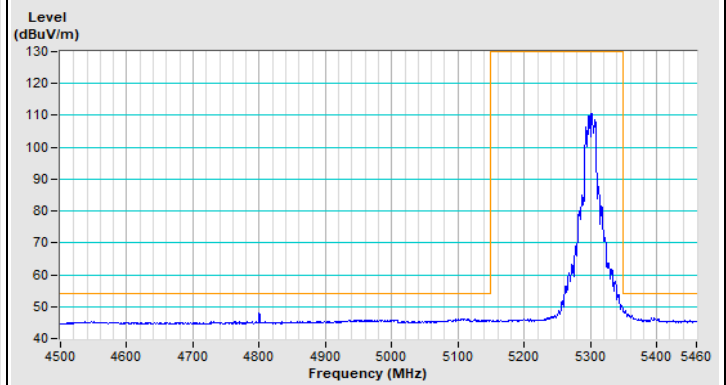
Horizontal (Peak)



Horizontal (Average)

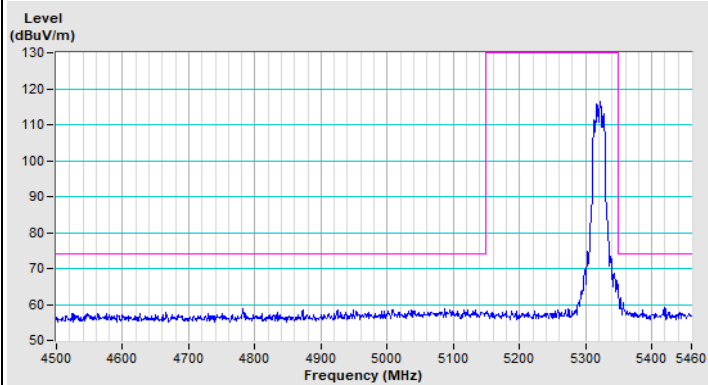


Vertical (Peak)

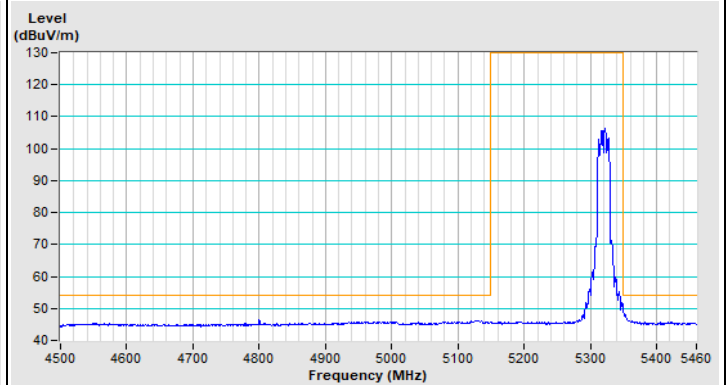


Vertical (Average)

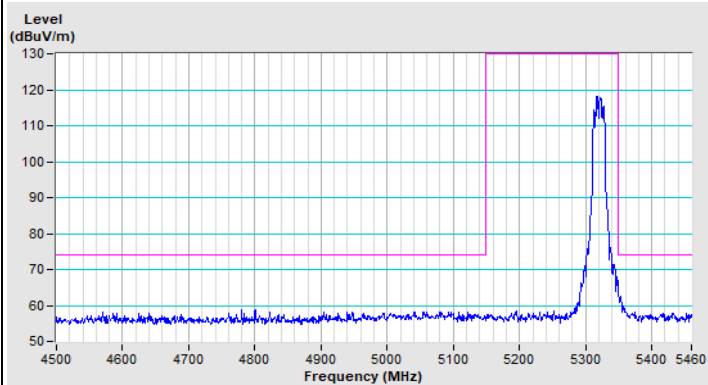
802.11a Channel 64



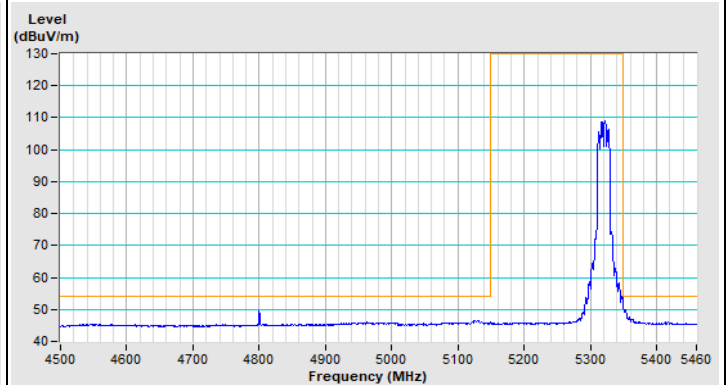
Horizontal (Peak)



Horizontal (Average)



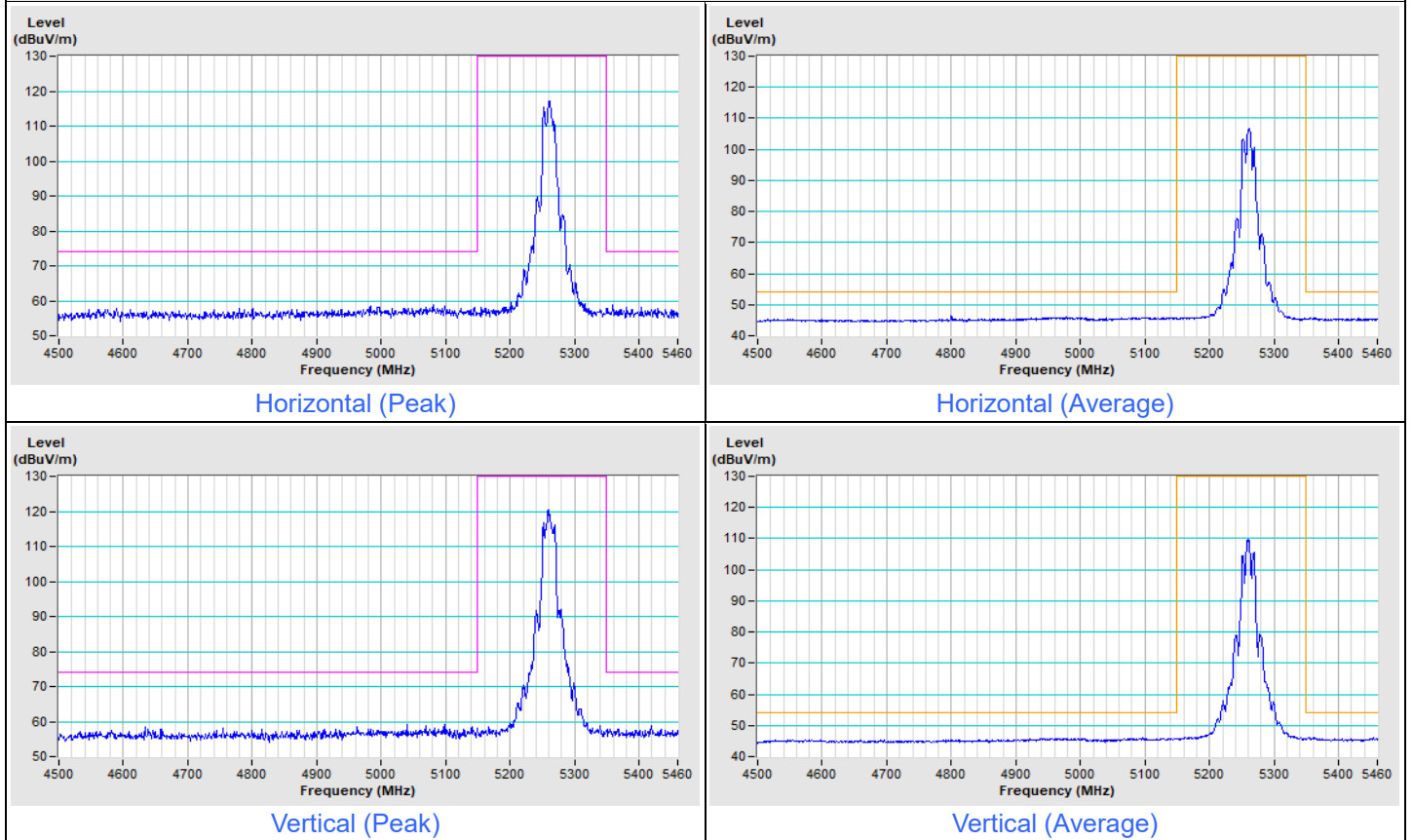
Vertical (Peak)



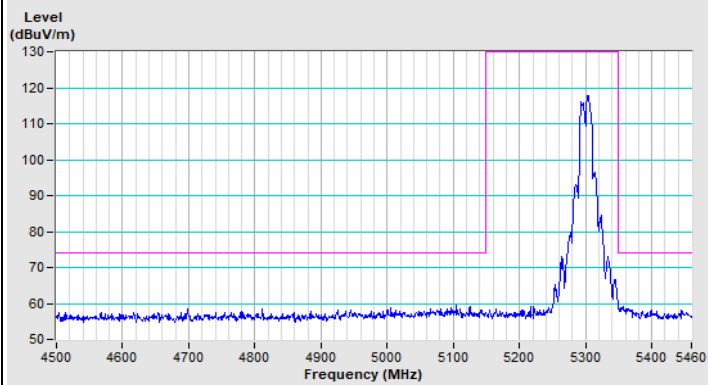
Vertical (Average)

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=1 kHz, DET=Peak
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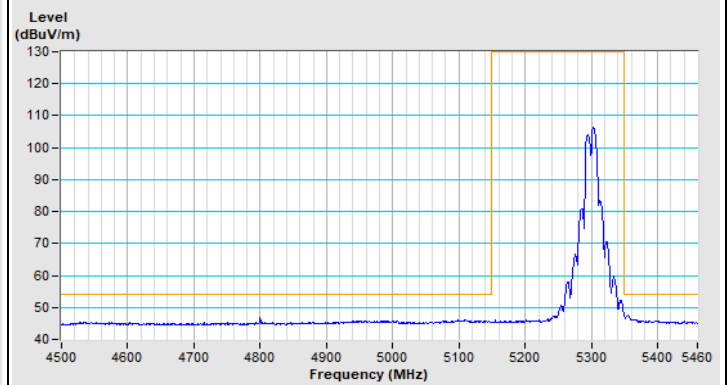
802.11ac (VHT20) Channel 52



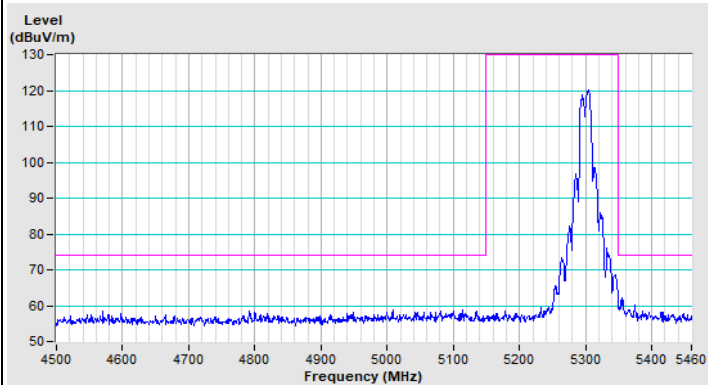
802.11ac (VHT20) Channel 60



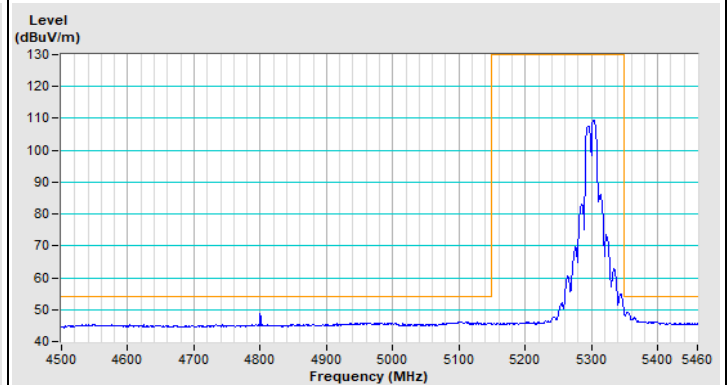
Horizontal (Peak)



Horizontal (Average)

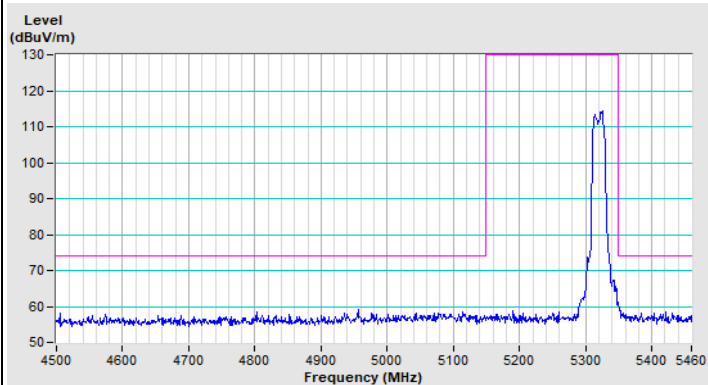


Vertical (Peak)

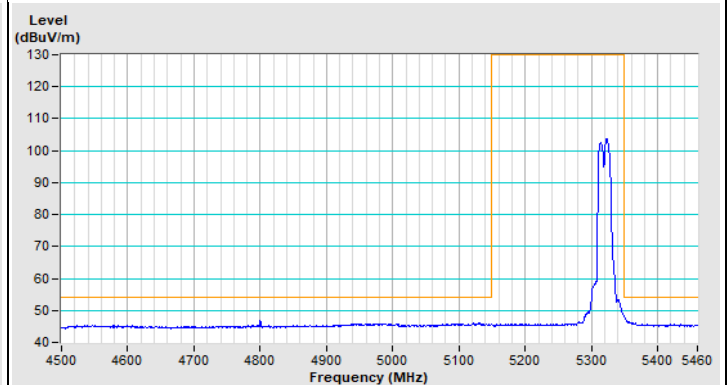


Vertical (Average)

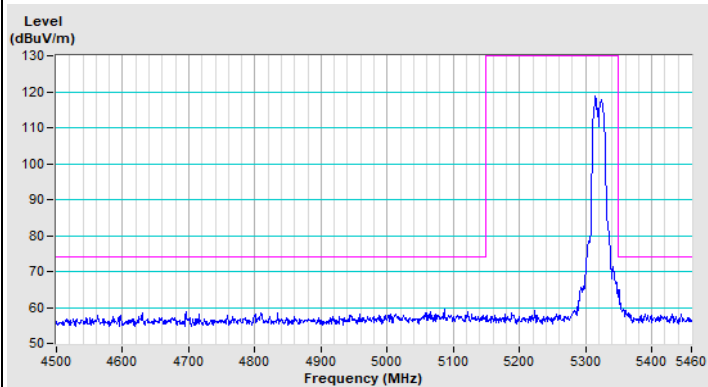
802.11ac (VHT20) Channel 64



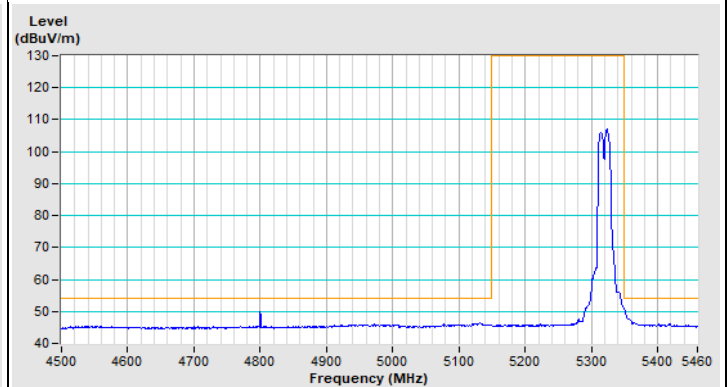
Horizontal (Peak)



Horizontal (Average)



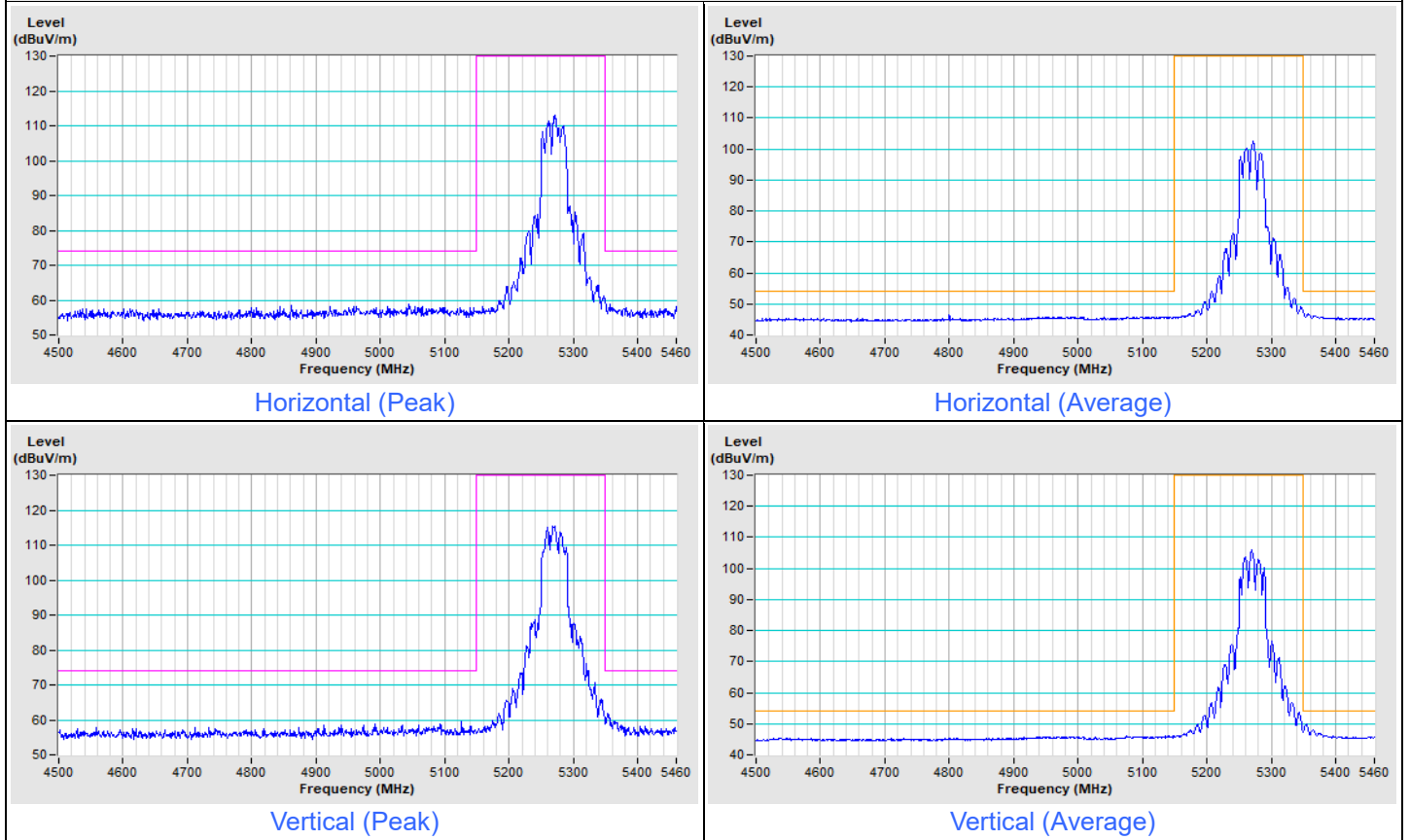
Vertical (Peak)



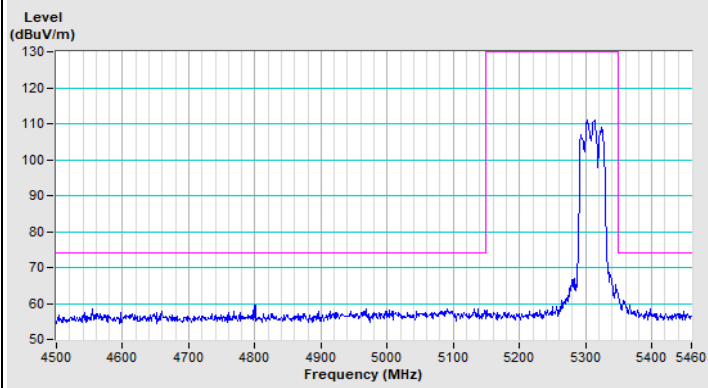
Vertical (Average)

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=1 kHz, DET=Peak
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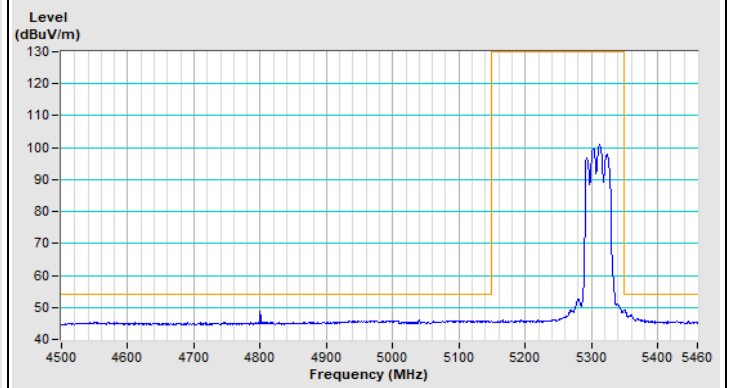
802.11ac (VHT40) Channel 54



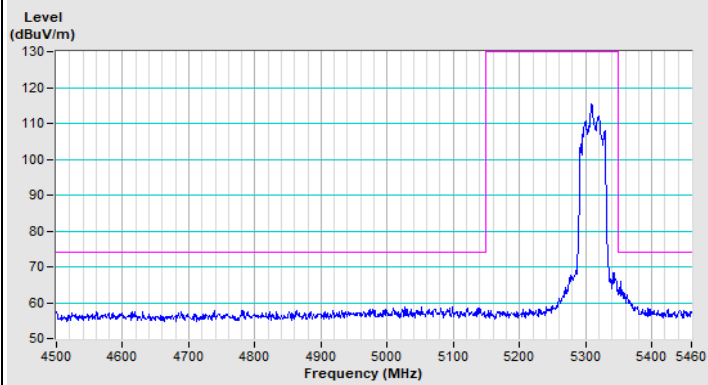
802.11ac (VHT40) Channel 62



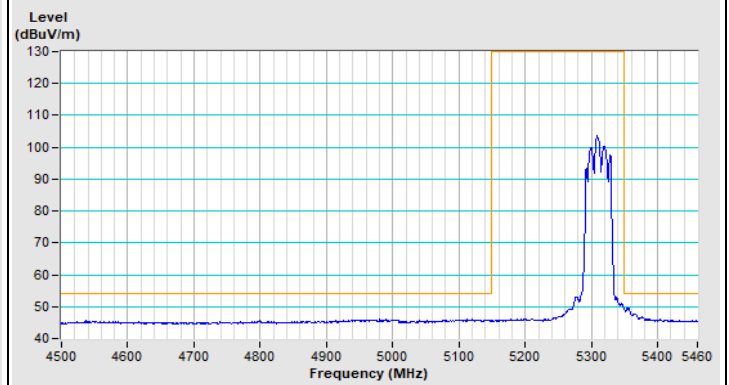
Horizontal (Peak)



Horizontal (Average)



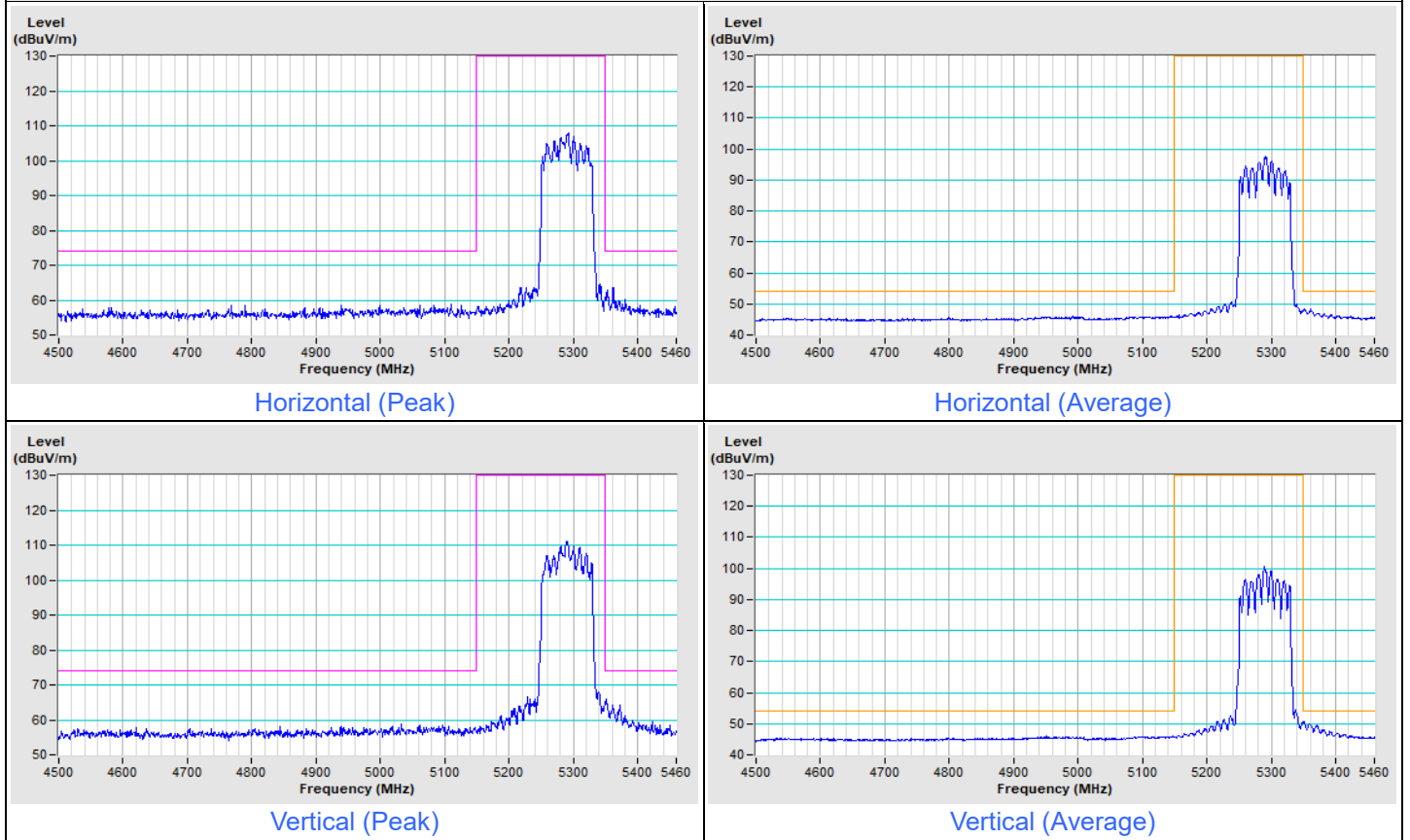
Vertical (Peak)



Vertical (Average)

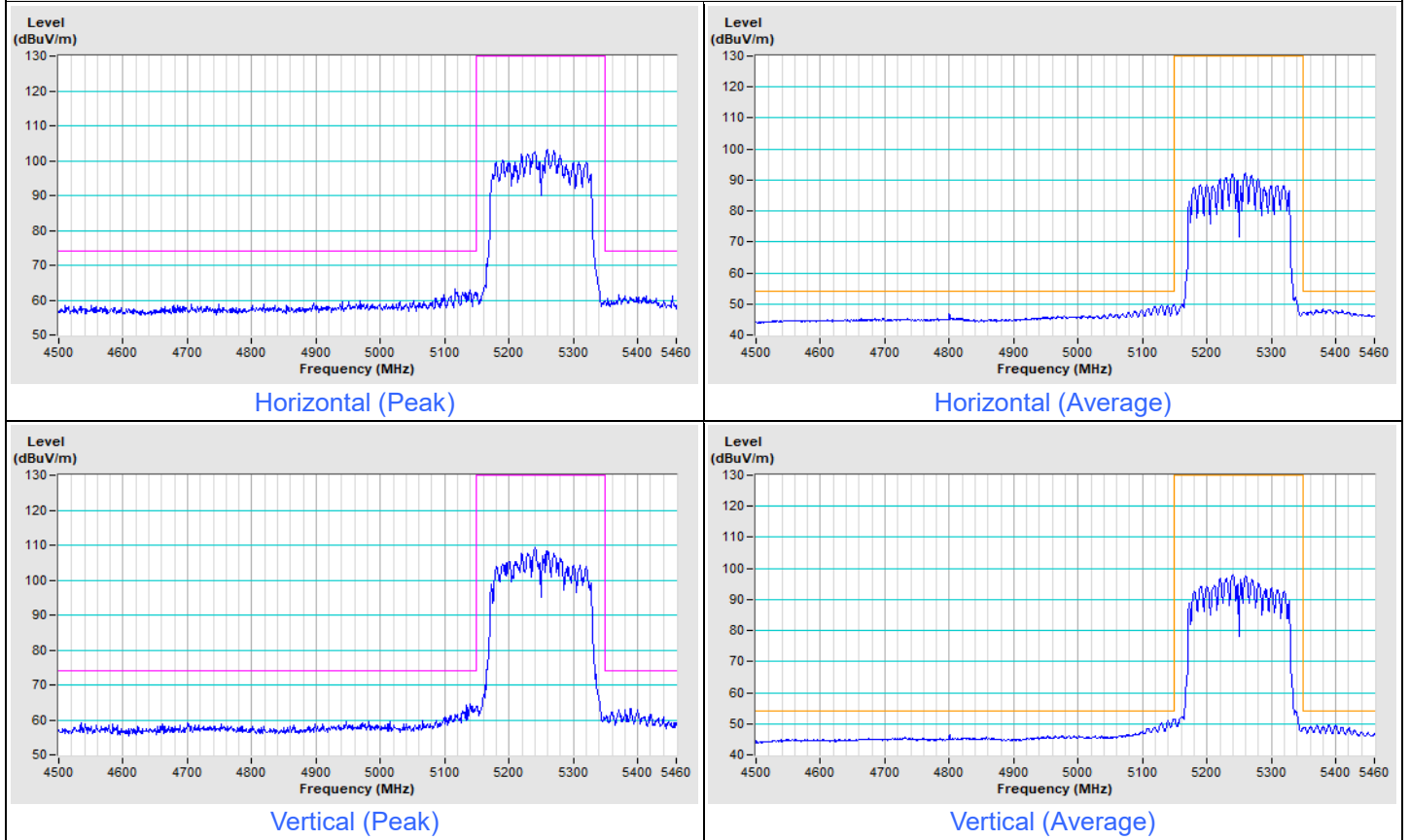
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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802.11ac (VHT80) Channel 58



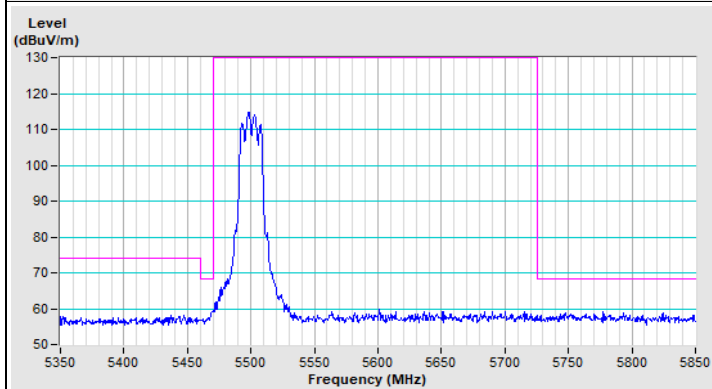
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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802.11ac (VHT160) Channel 50

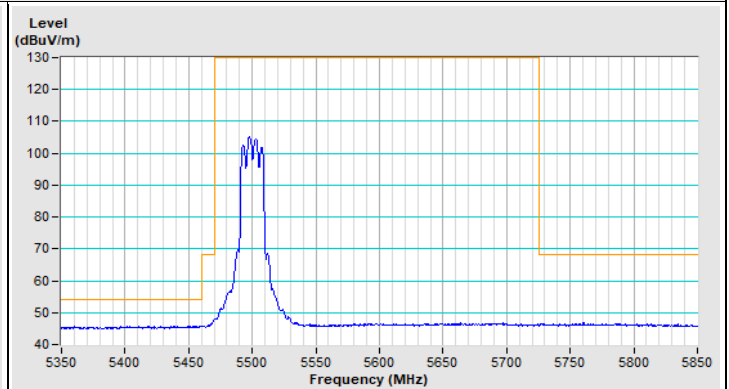


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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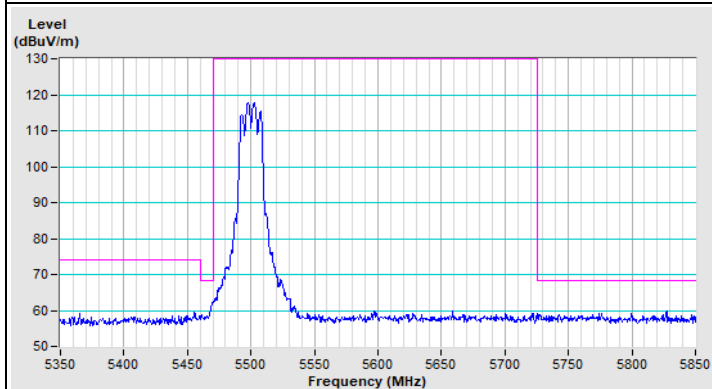
802.11a Channel 100



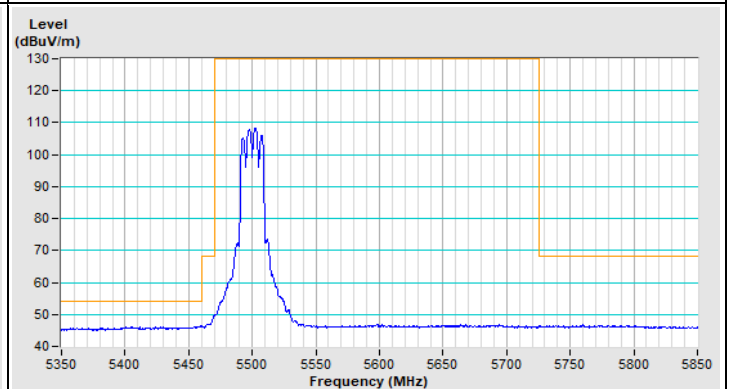
Horizontal (Peak)



Horizontal (Average)

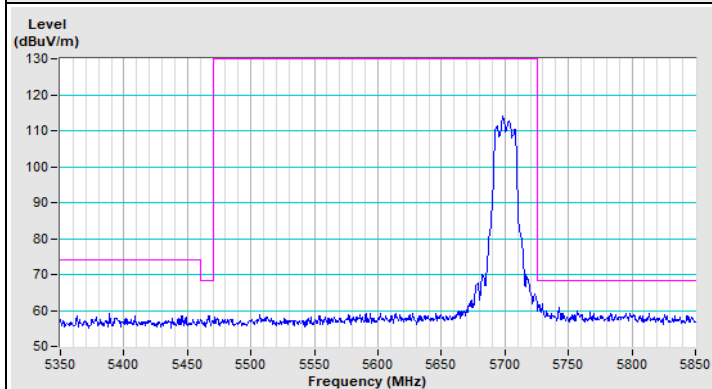


Vertical (Peak)

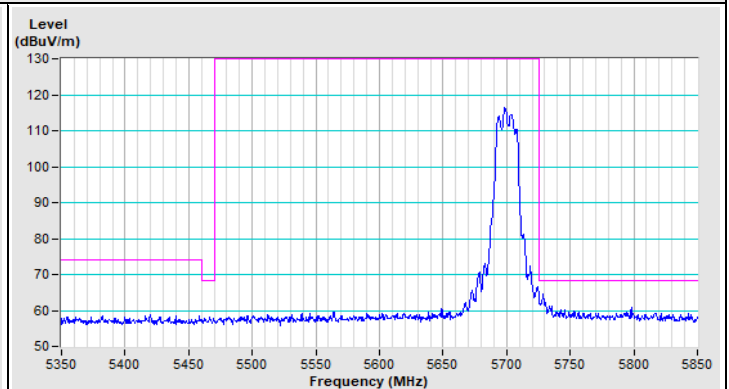


Vertical (Average)

802.11a Channel 140



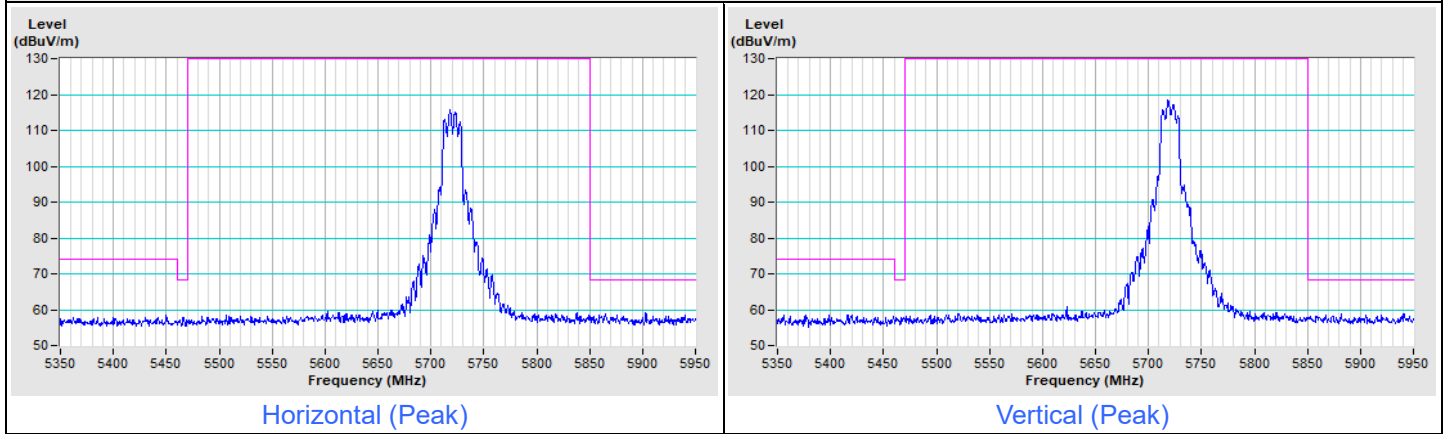
Horizontal (Peak)



Vertical (Peak)

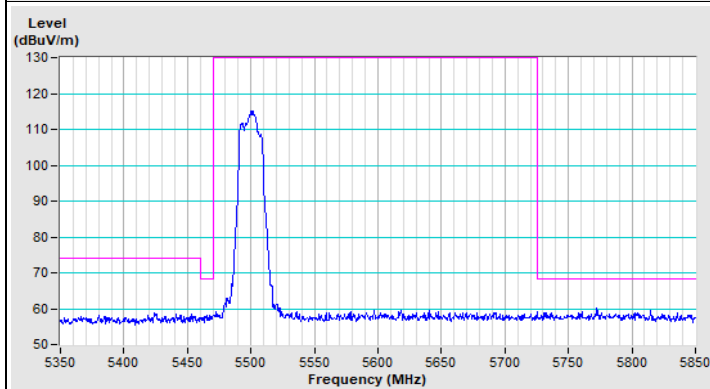
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11a Channel 144

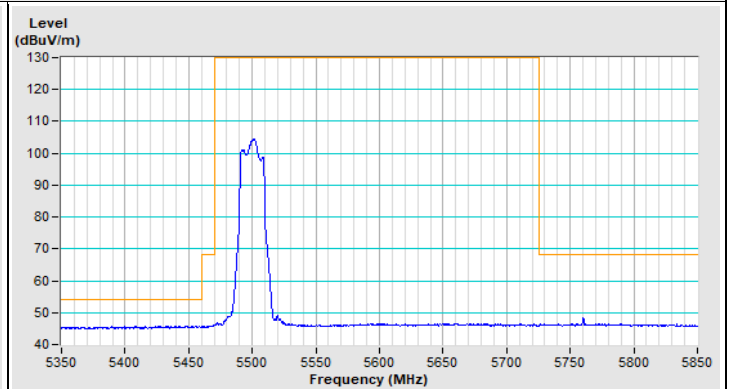


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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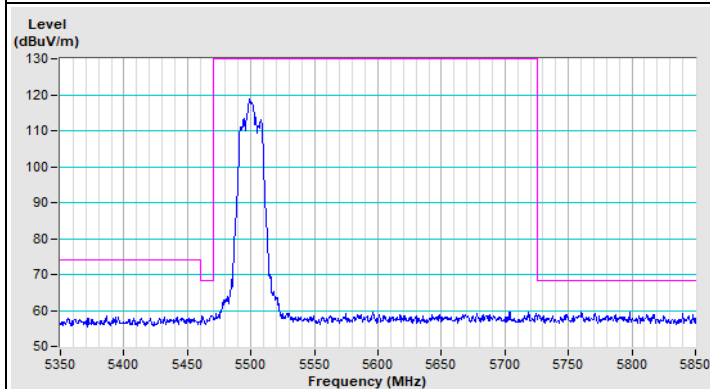
802.11ac (VHT20) Channel 100



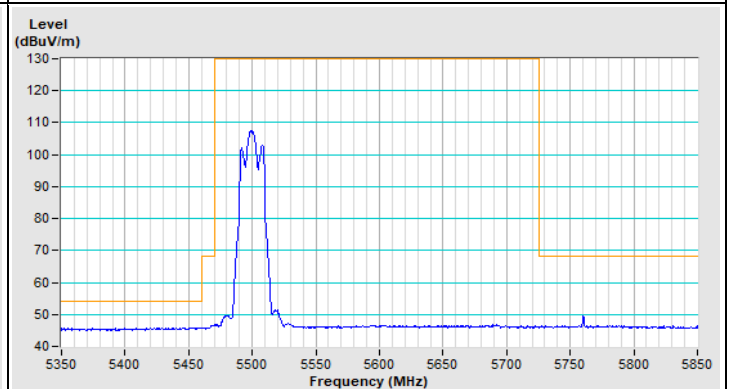
Horizontal (Peak)



Horizontal (Average)

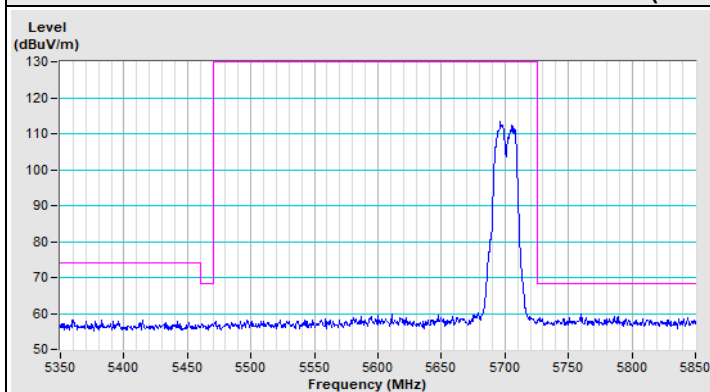


Vertical (Peak)

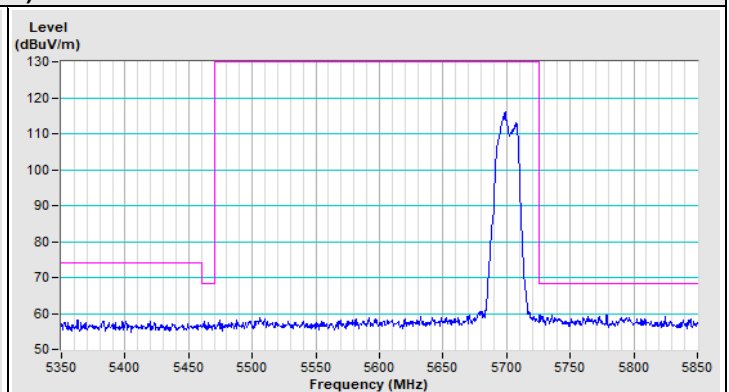


Vertical (Average)

802.11ac (VHT20) Channel 140



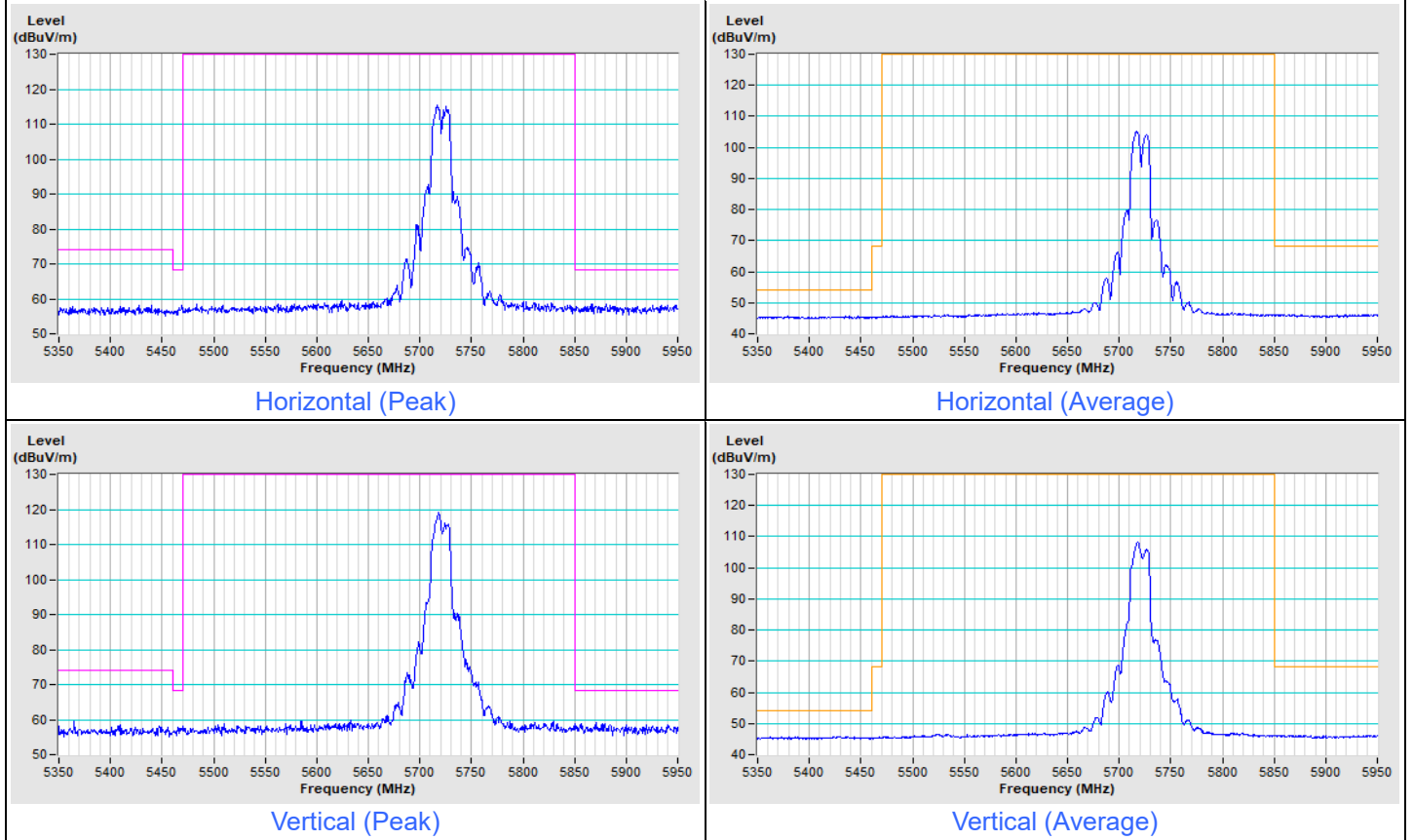
Horizontal (Peak)



Vertical (Peak)

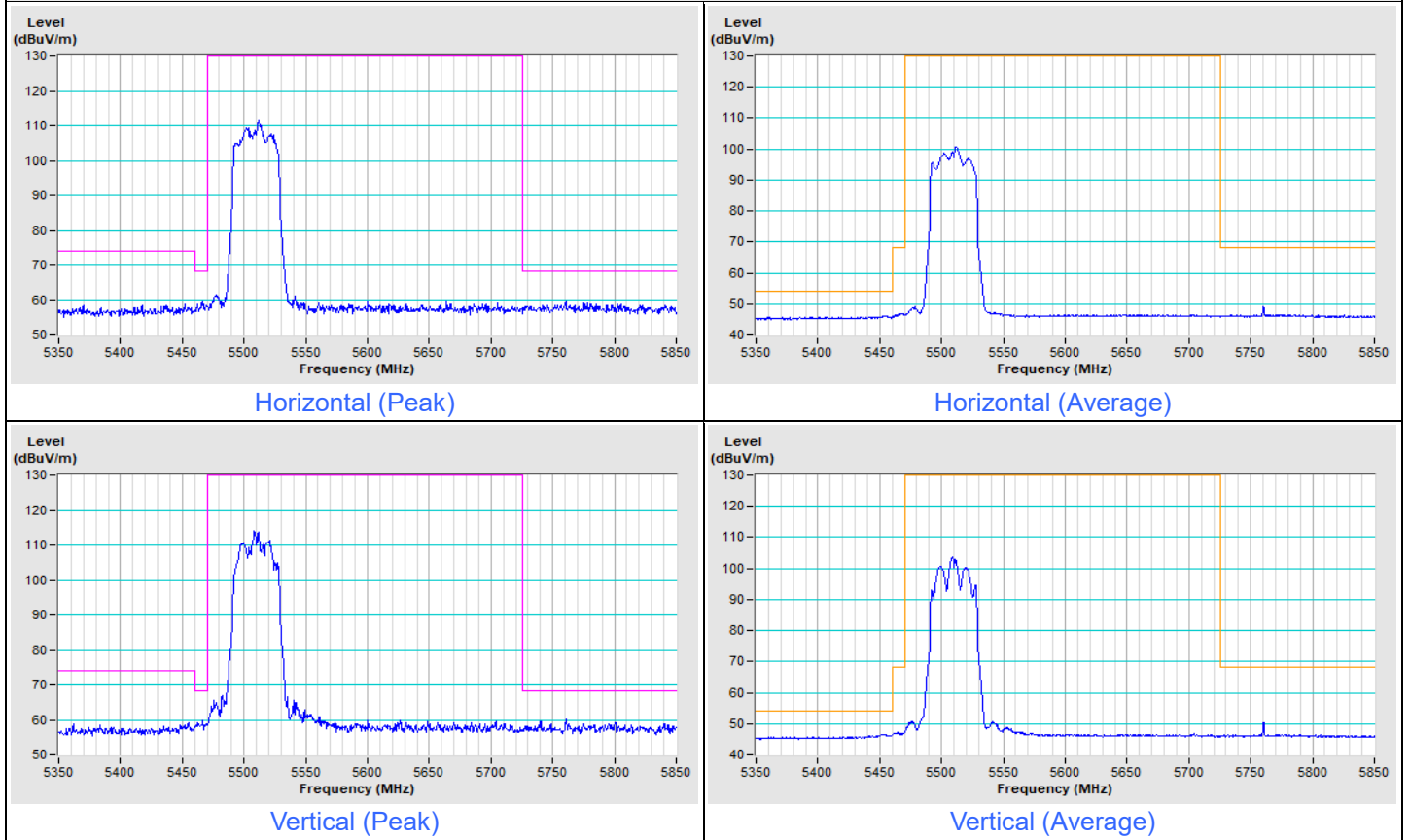
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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802.11ac (VHT20) Channel 144

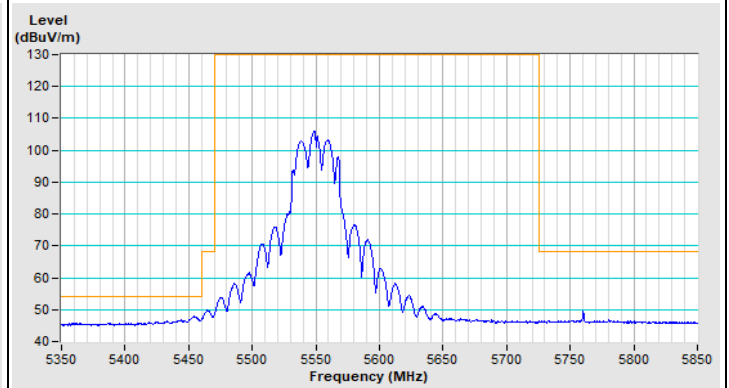
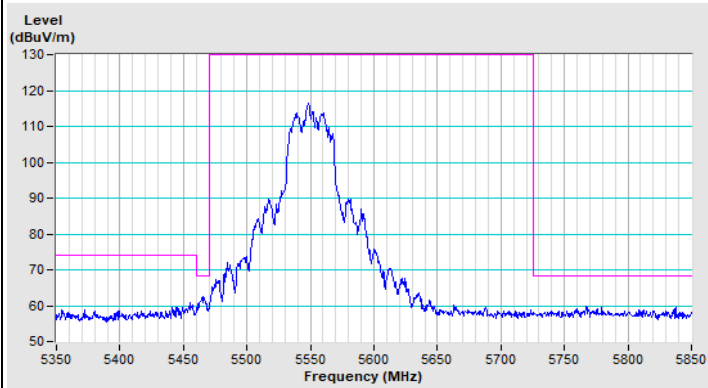
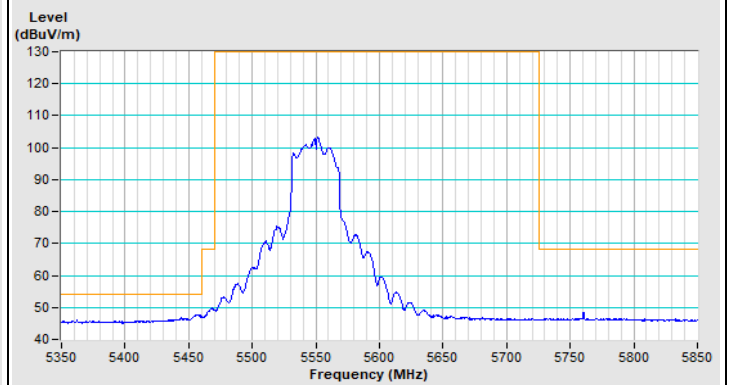
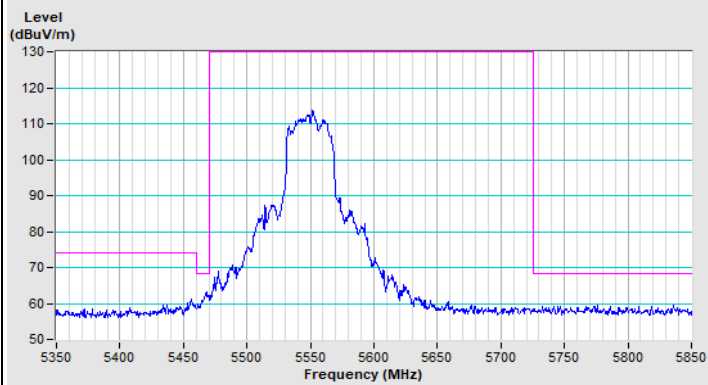


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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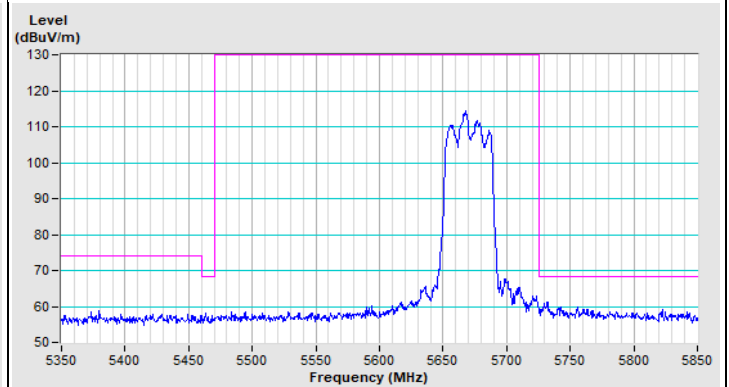
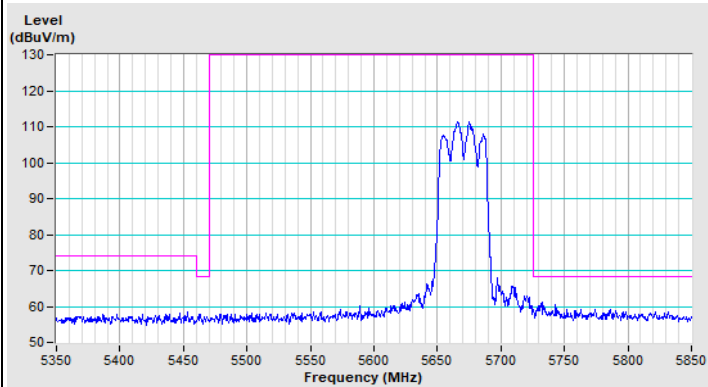
802.11ac (VHT40) Channel 102



802.11ac (VHT40) Channel 110

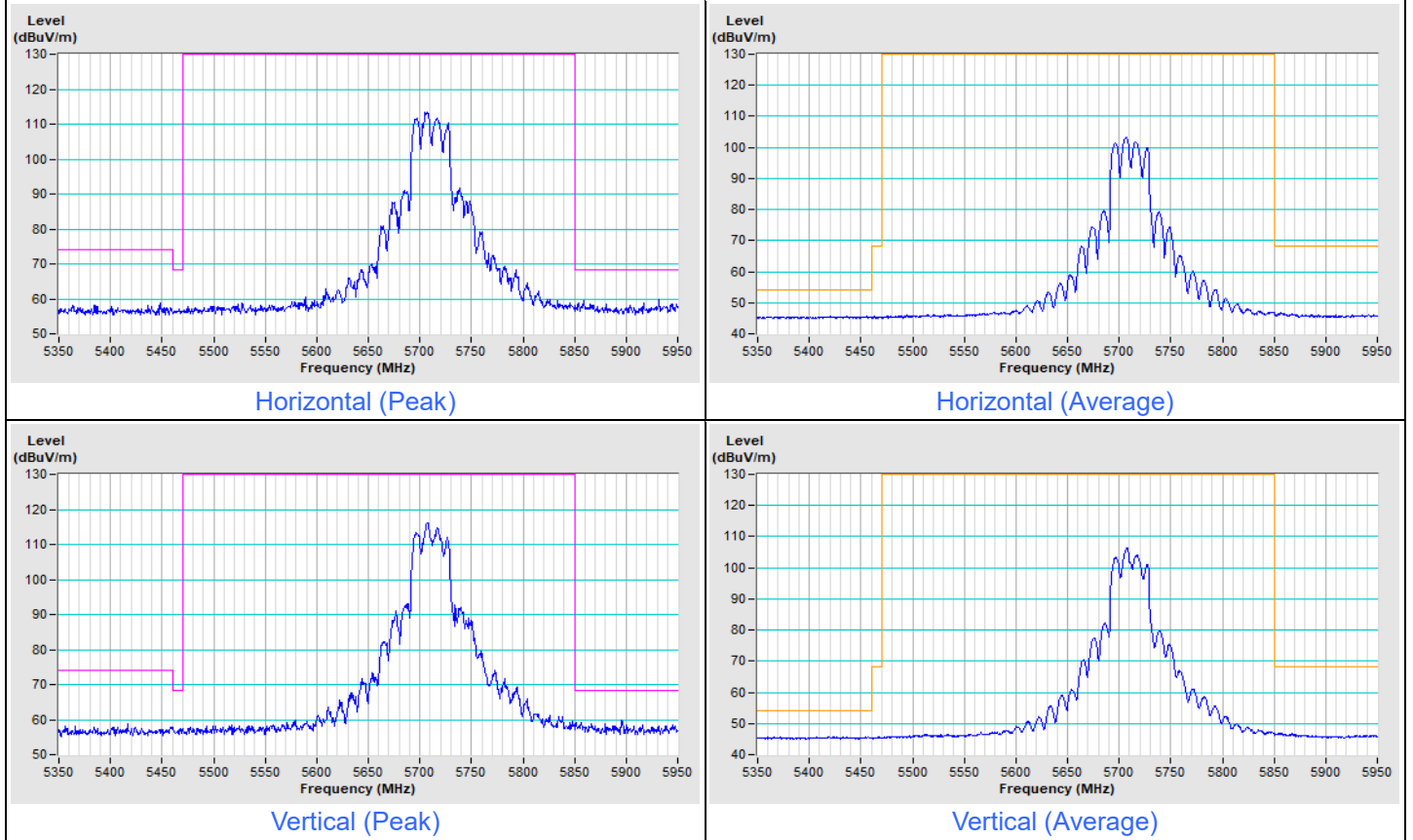


802.11ac (VHT40) Channel 134



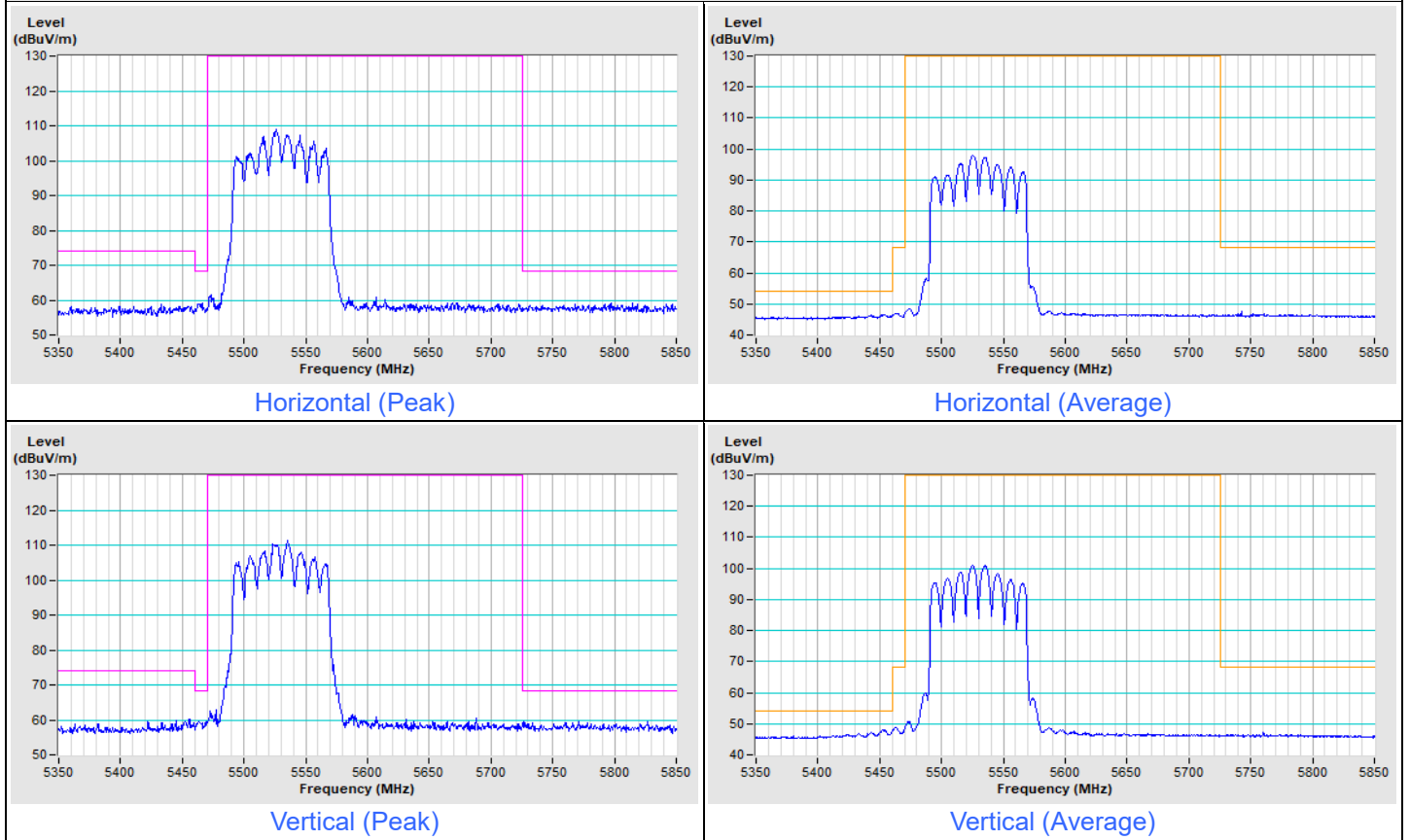
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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802.11ac (VHT40) Channel 142

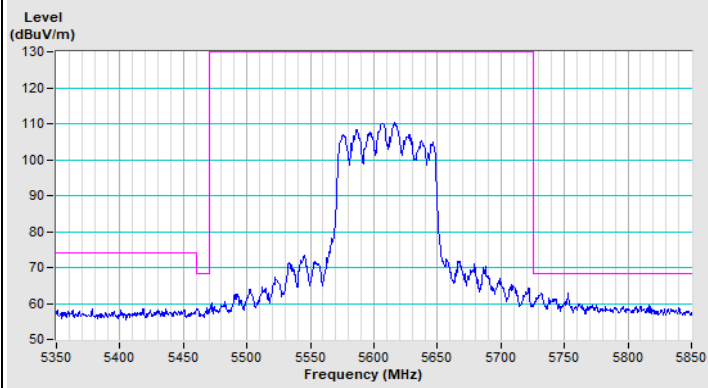


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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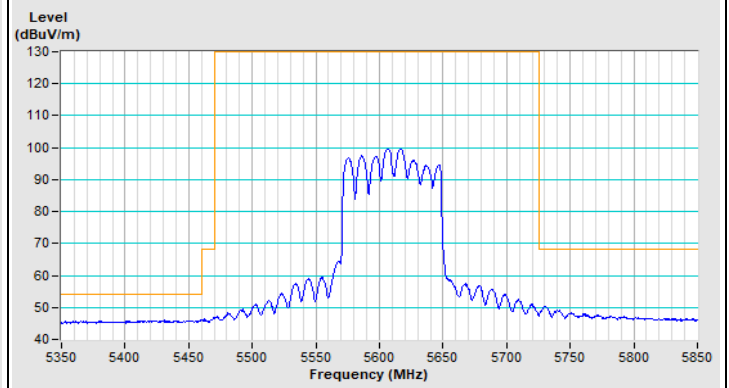
802.11ac (VHT80) Channel 106



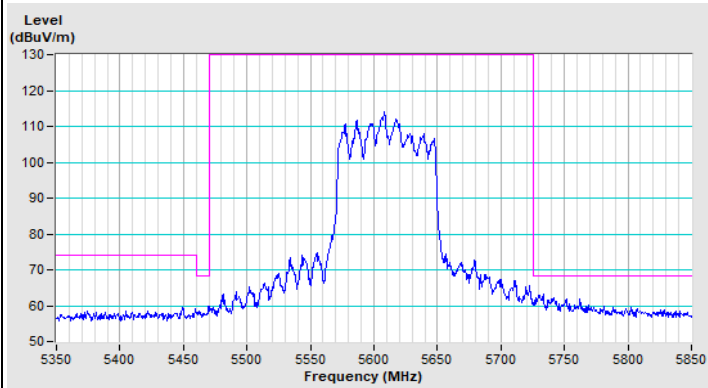
802.11ac (VHT80) Channel 122



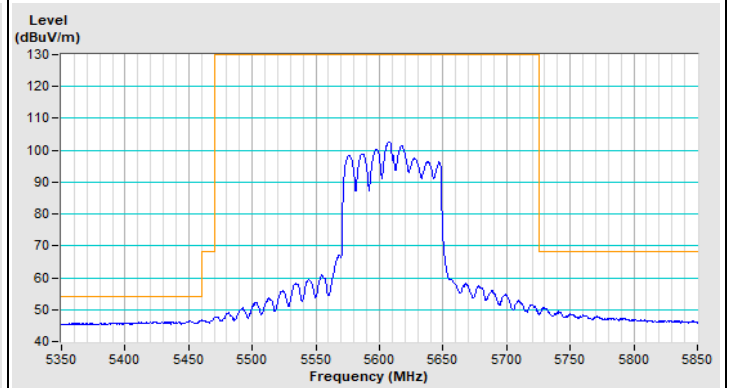
Horizontal (Peak)



Horizontal (Average)



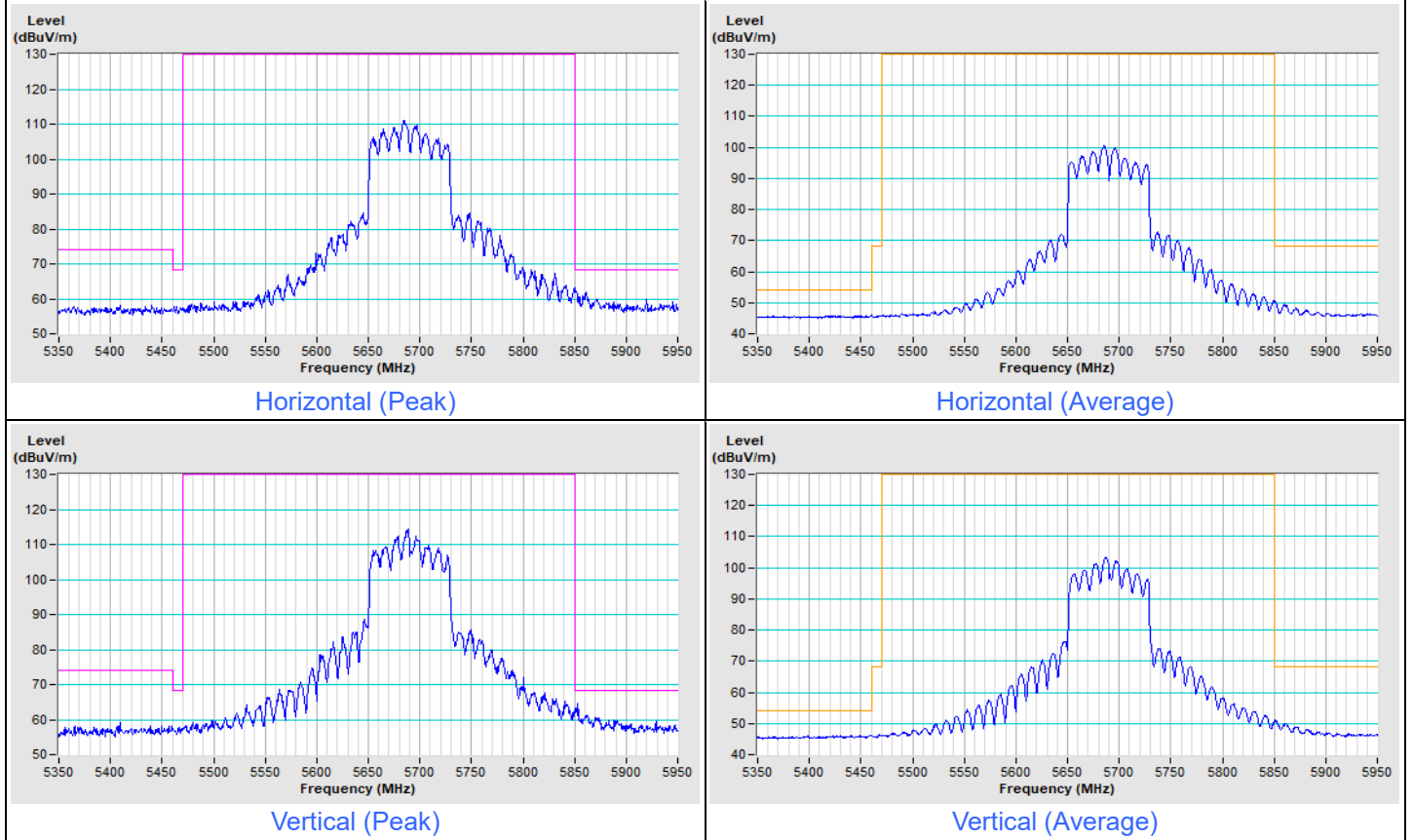
Vertical (Peak)



Vertical (Average)

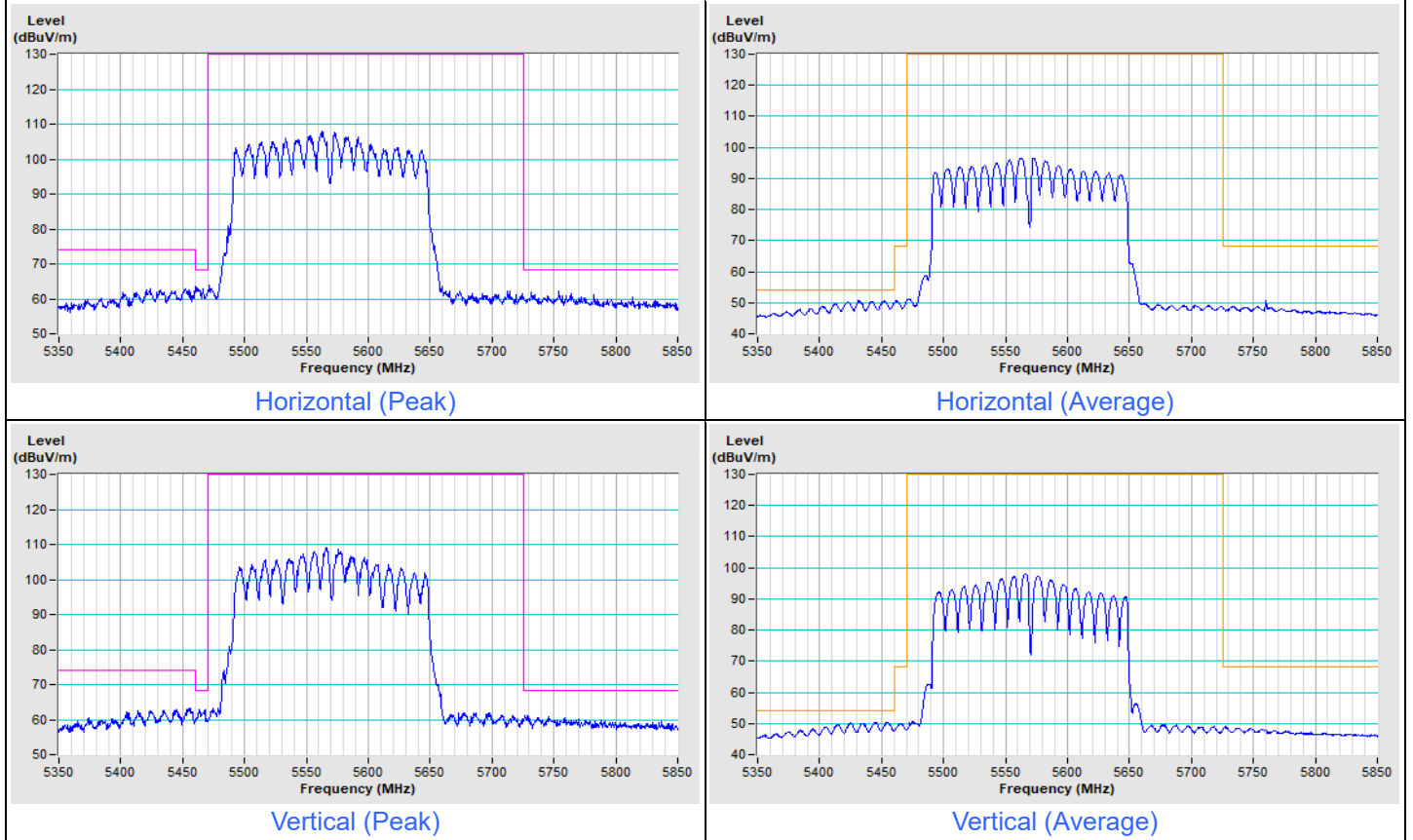
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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802.11ac (VHT80) Channel 138



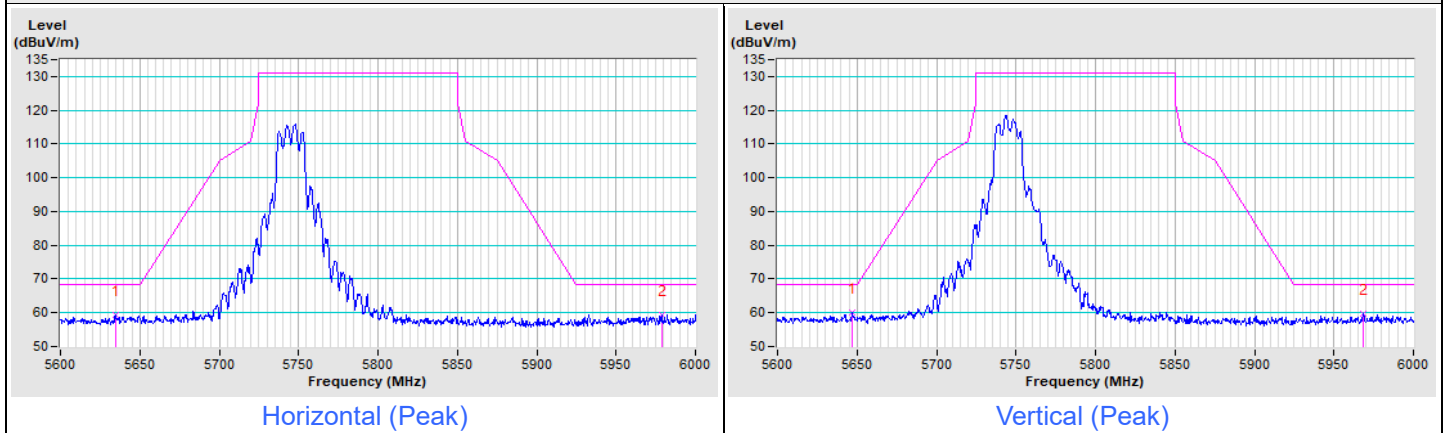
Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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802.11ac (VHT160) Channel 114

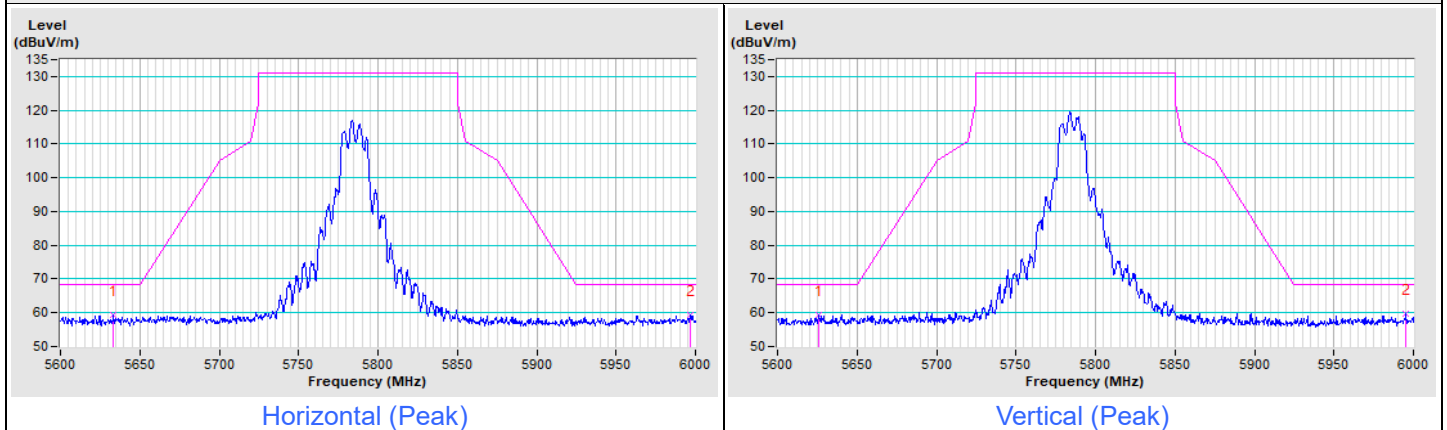


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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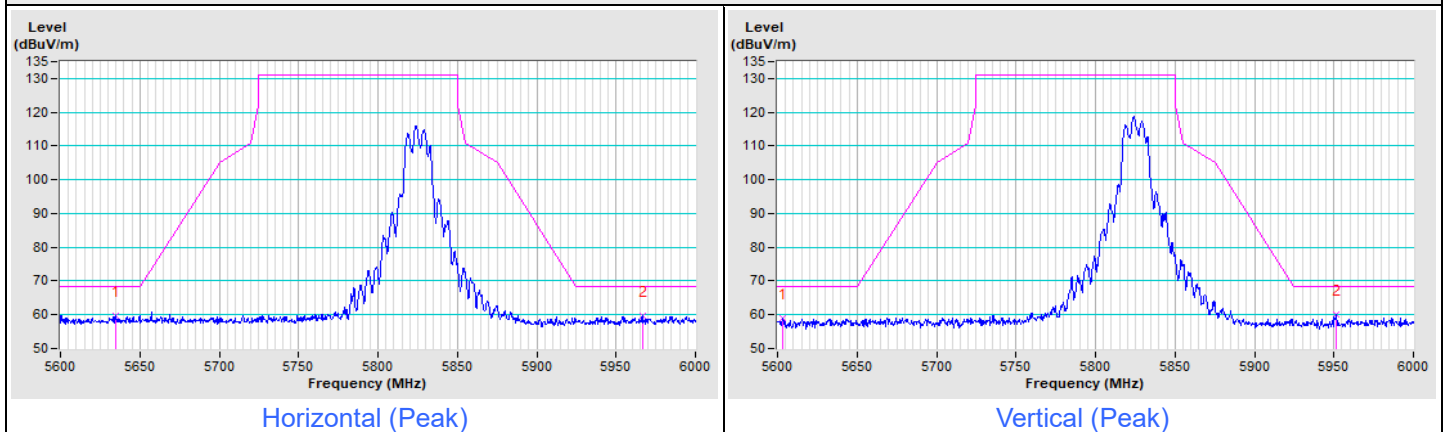
802.11a Channel 149



802.11a Channel 157

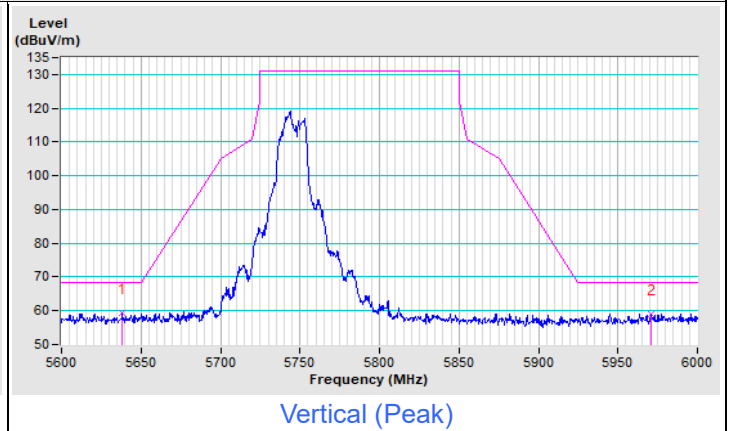
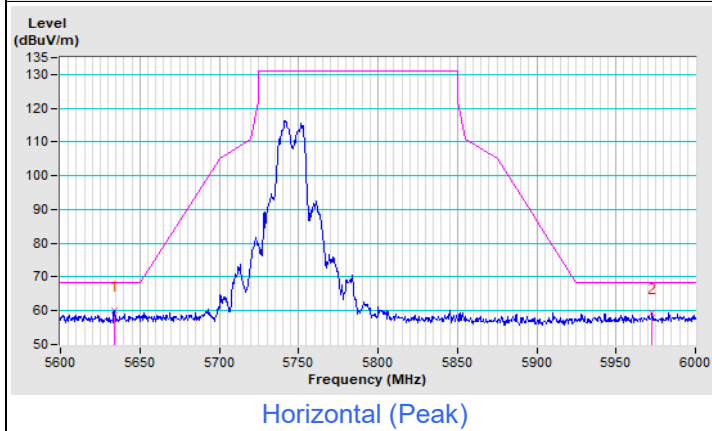


802.11a Channel 165

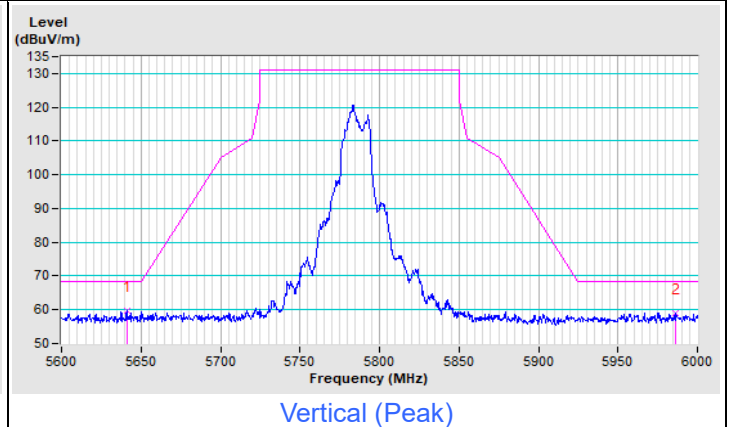
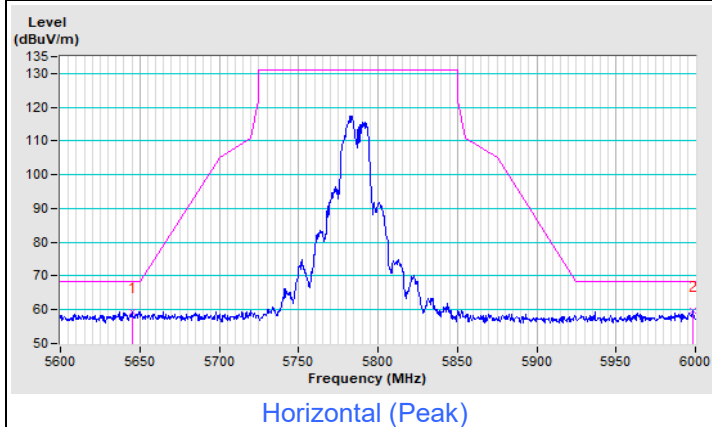


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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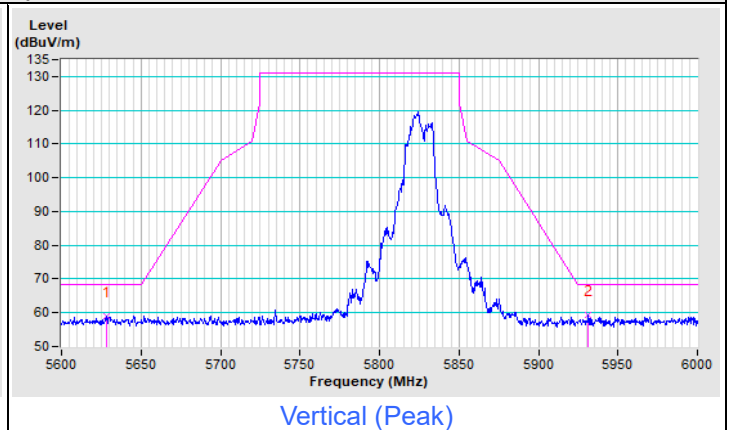
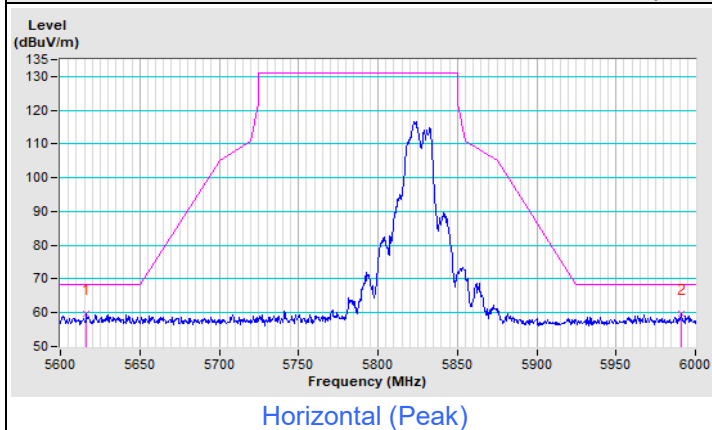
802.11ac (VHT20) Channel 149



802.11ac (VHT20) Channel 157

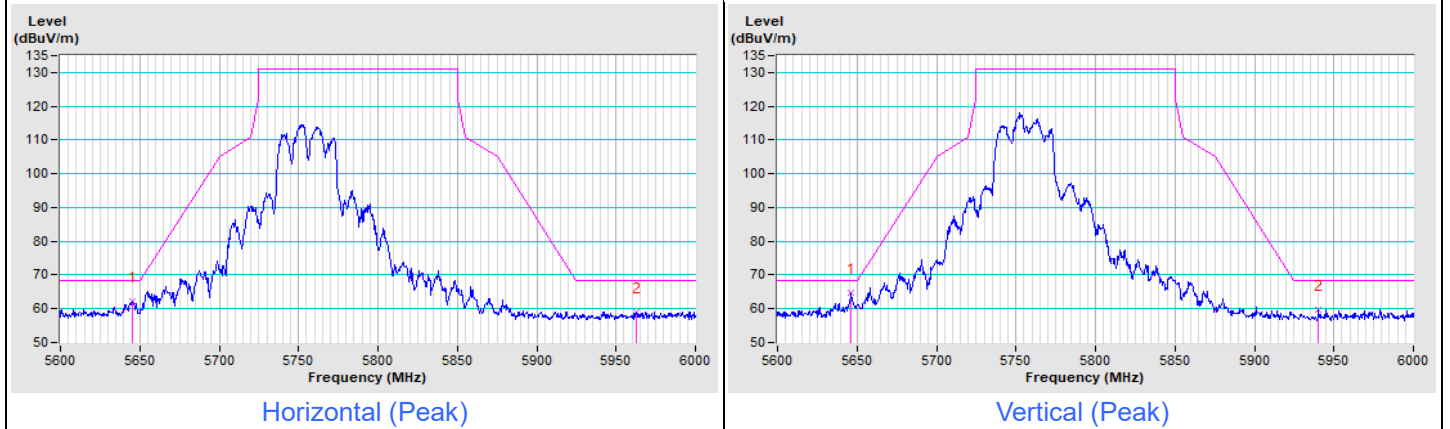


802.11ac (VHT20) Channel 165

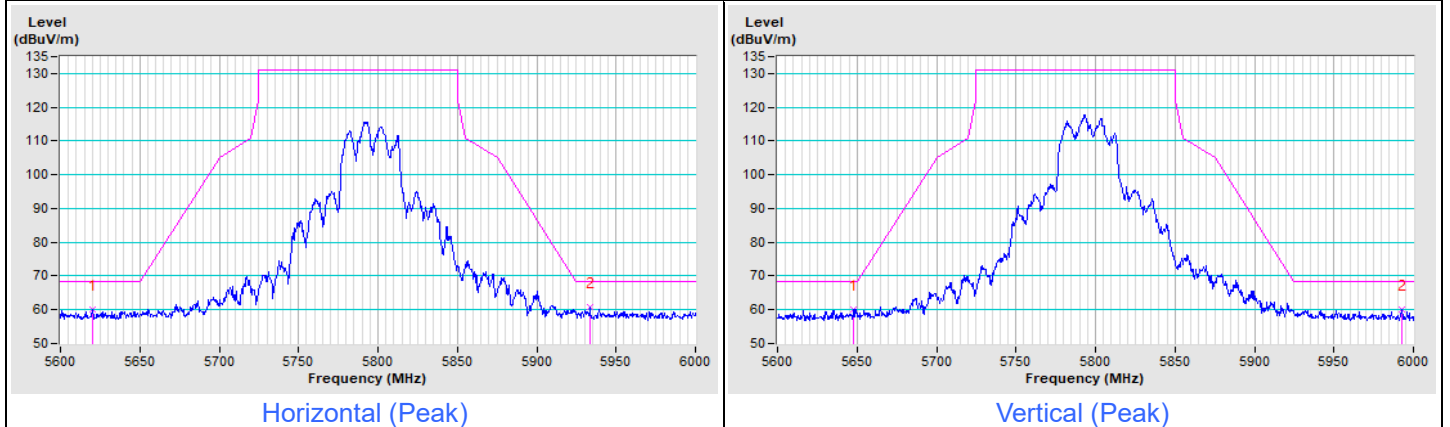


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ac (VHT40) Channel 151

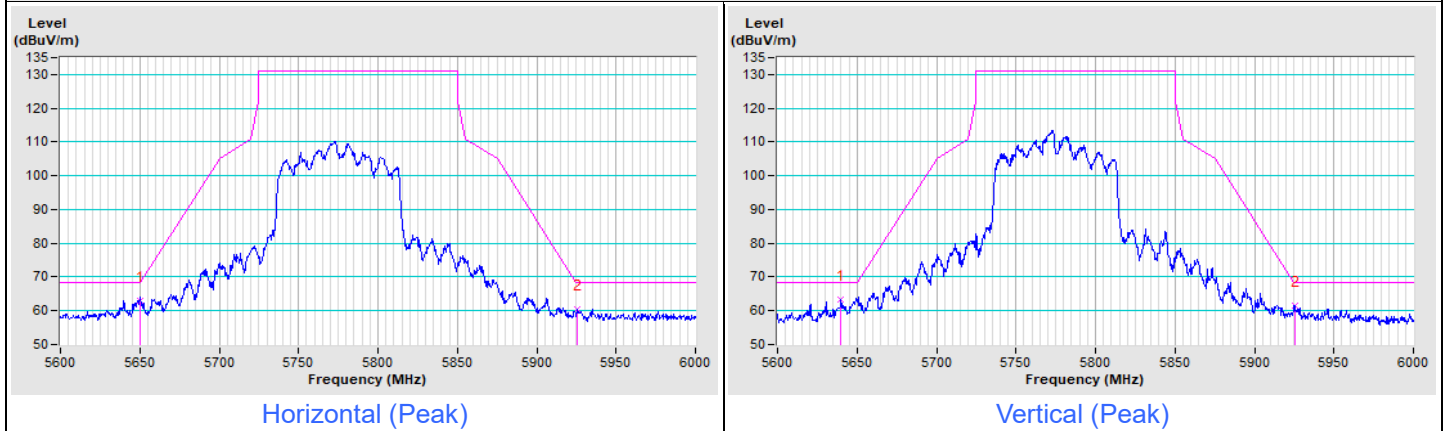


802.11ac (VHT40) Channel 159



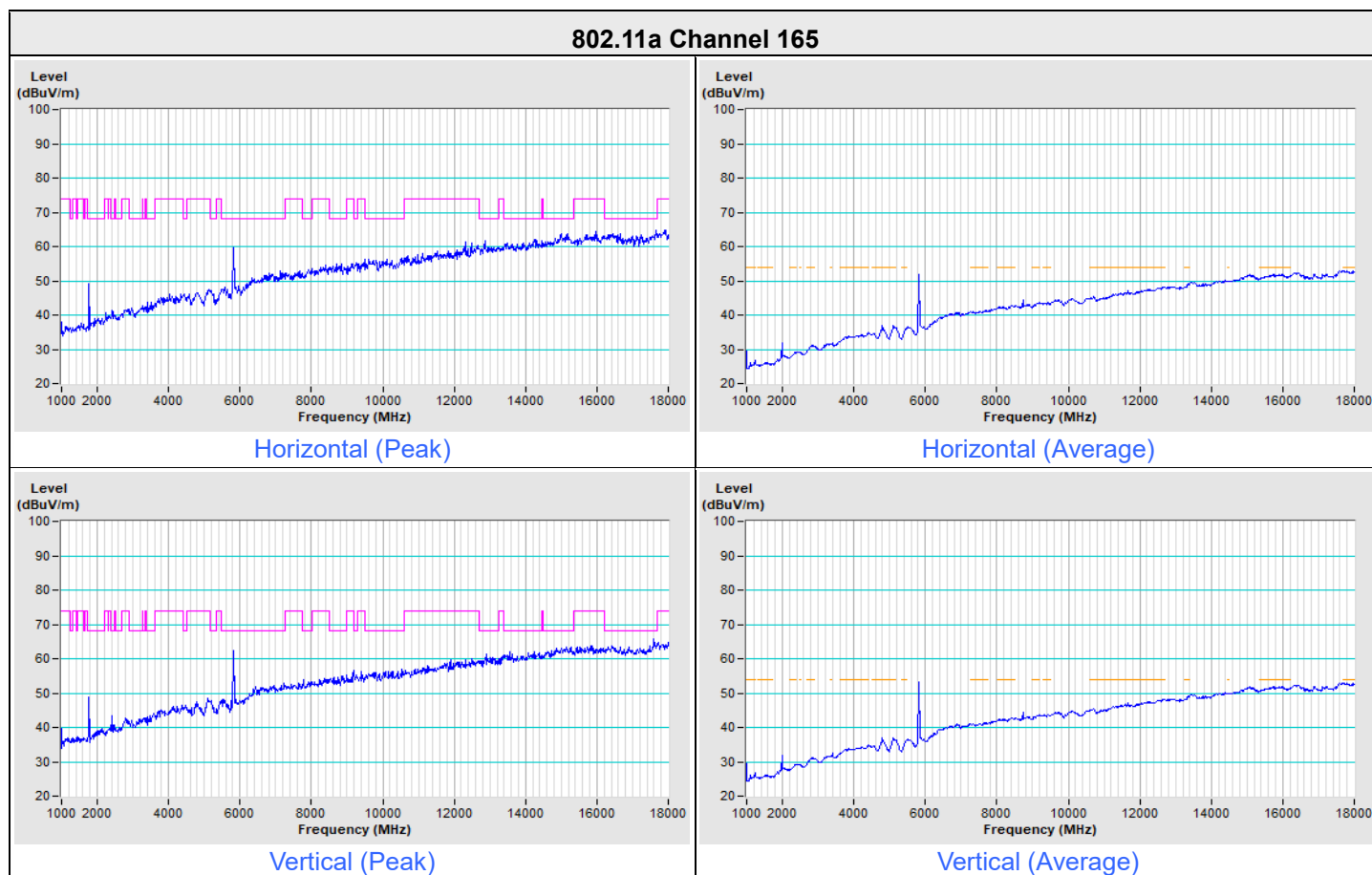
Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ac (VHT80) Channel 155



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=3 MHz, DET=RMS
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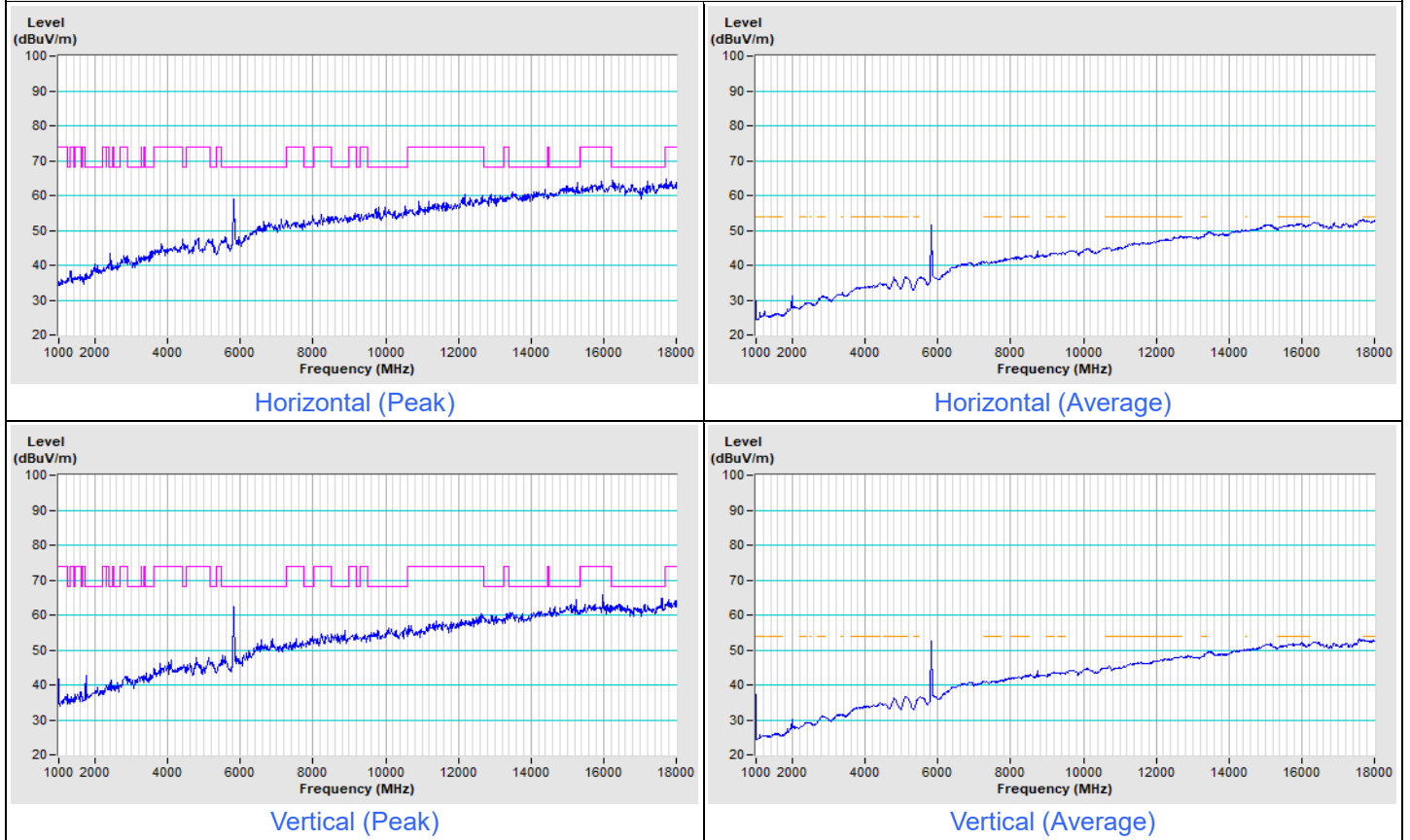


Notes:

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=3 MHz, DET=RMS
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802.11ac (VHT20) Channel 165

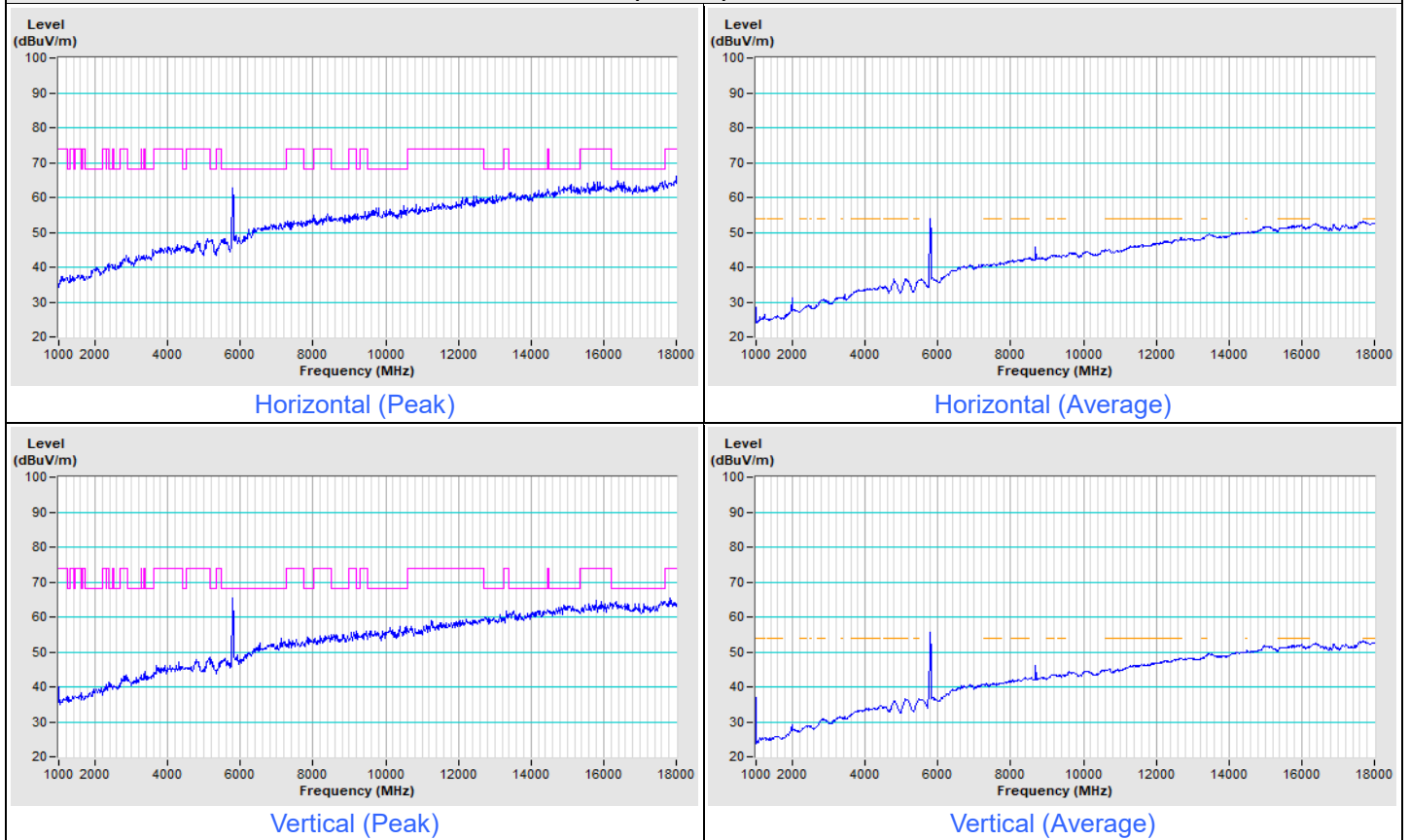


Notes:

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=3 MHz, DET=RMS
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802.11ac (VHT40) Channel 159

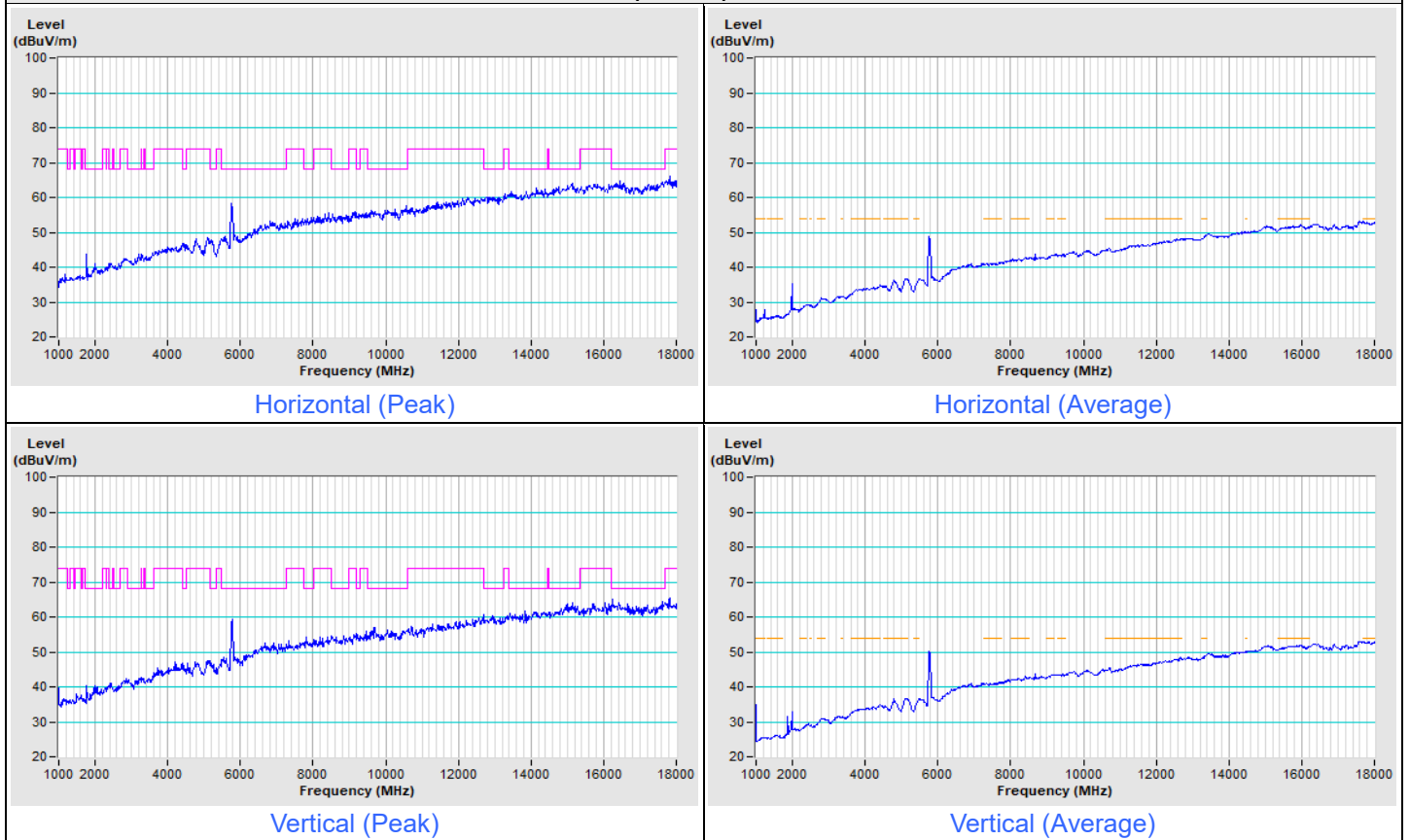


Notes:

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=3 MHz, DET=RMS
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802.11ac (VHT80) Channel 155

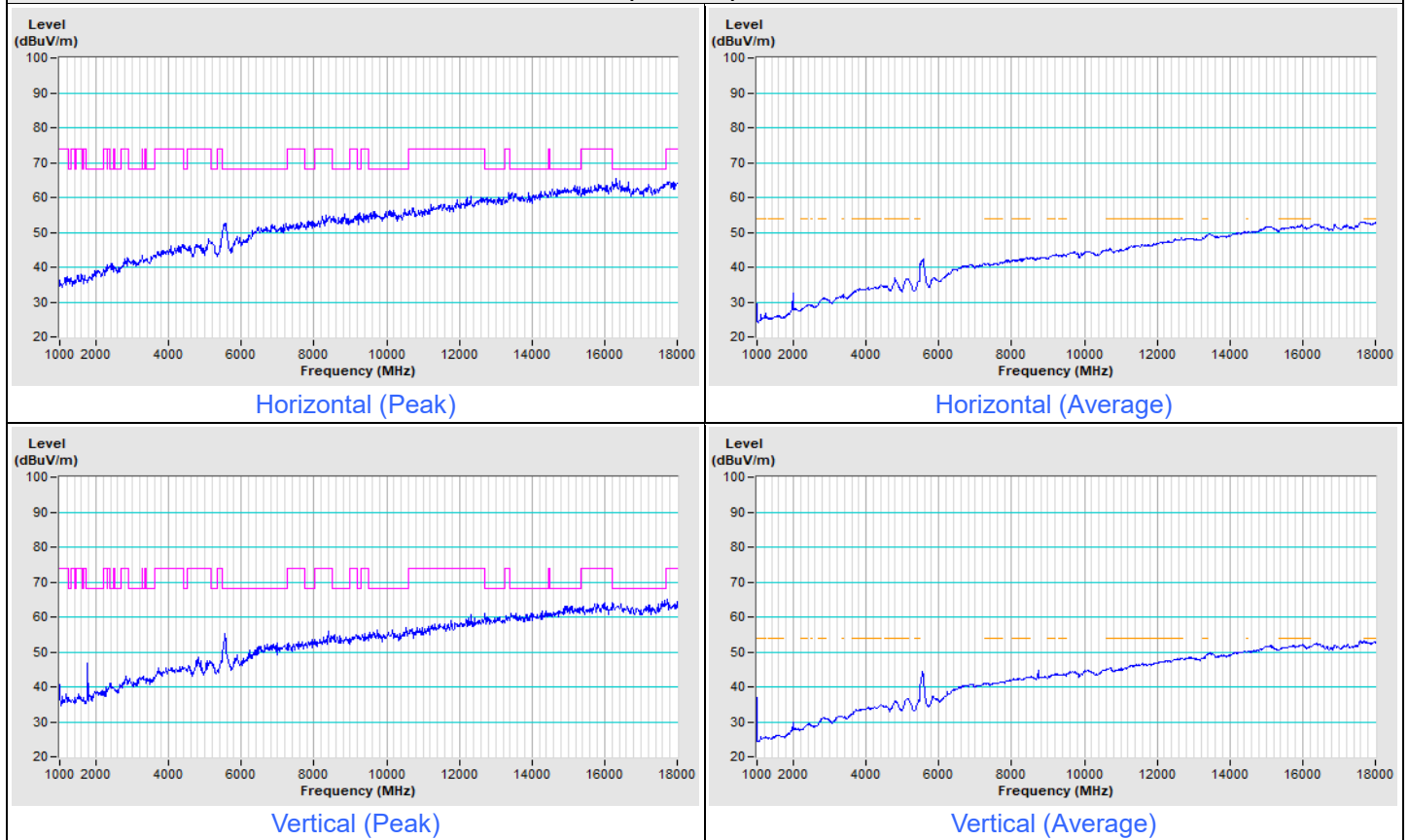


Notes:

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=3 MHz, DET=RMS
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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:

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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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