

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBEOE-WTW-P23120072A-1

FCC ID: MQT-AT150ED7

Product: Terminal

Brand: XAC, Fiserv

Model No.: xCL_AT-150-ED

Received Date: 2025/8/5

Test Date: 2025/8/14 ~ 2025/9/6

Issued Date: 2025/9/17

Applicant: XAC AUTOMATION CORP.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

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Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

FCC Registration / 723255 / TW2022

Designation Number:

Approved by:  , **Date:** 2025/9/17

Wen Yu / Assistant Manager

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Prepared by : Claire Kuan / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBEOE-WTW-P23120072A-1	Original release.	2025/9/17

1 Certificate

Product: Terminal

Brand: XAC, Fiserv

Test Model: xCL_AT-150-ED

Sample Status: Engineering sample

Applicant: XAC AUTOMATION CORP.

Test Date: 2025/8/14 ~ 2025/9/6

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

Measurement ANSI C63.10-2020

procedure: KDB 789033 D02 General UNII Test Procedure New Rules 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 -17.34 dB at 0.15391 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -2.3 dB at 781.53 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 -0.1 dB at 5150.00 MHz and 5350.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is I-PEX MHF1 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:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
26 dB Bandwidth	-	1050.00 Hz
RF Output Power	-	1.1 dB
Power Spectral Density	-	1.3 dB
6 dB Bandwidth	-	1050.00 Hz
Occupied Bandwidth	-	1050.00 Hz
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.1 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 dB

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

Product	Terminal
Brand	XAC, Fiserv
Test Model	xCL_AT-150-ED
Status of EUT	Engineering sample
Power Supply Rating	12 Vdc from power adapter
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode
Modulation Technology	OFDM
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 150 Mbps 802.11ac: up to 433.3 Mbps
Operating Frequency	5.18 GHz ~ 5.24 GHz 5.26 GHz ~ 5.32 GHz 5.5 GHz ~ 5.7 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20): 24 802.11n (HT40), 802.11ac (VHT40): 11 802.11ac (VHT80): 5
Output Power	5.18 GHz ~ 5.24 GHz: 134.586 mW (21.29 dBm) 5.26 GHz ~ 5.32 GHz: 126.183 mW (21.01 dBm) 5.5 GHz ~ 5.7 GHz: 103.514 mW (20.15 dBm) 5.745 GHz ~ 5.825 GHz: 79.25 mW (18.99 dBm)
EUT Category	Client device

Note:

1. There are Bluetooth、WLAN (2.4 GHz & 5 GHz) and NFC technology used for the EUT.
2. Simultaneously transmission condition.

Condition	Technology		
1	WLAN (5 GHz)	Bluetooth	NFC

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

3. 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.

WLAN / Bluetooth							
Antenna No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (mm)
1	AWAN	AYF6P-100002	2.25	2.4~2.5	PIFA	I-PEX MHF1	129.34
			3.56	5.15~5.85			

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

2. The EUT incorporates a SISO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	1TX	1RX
802.11n (HT20)	1TX	1RX
802.11n (HT40)	1TX	1RX
802.11ac (VHT20)	1TX	1RX
802.11ac (VHT40)	1TX	1RX
802.11ac (VHT80)	1TX	1RX

Note: The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz) and 802.11ac mode for 20 MHz (40 MHz, 80 MHz) therefore the manufacturer will control the power for 802.11n mode is same as the 802.11ac mode or more lower than it and investigated worst case to representative mode in test report.

3.3 Channel List

FOR 5180 ~ 5320 MHz

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

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):

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

2 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

FOR 5500 ~ 5700 MHz

11 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

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		

5 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

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

2 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	122	5610 MHz

FOR 5745 ~ 5825 MHz:

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

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):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. The AC Adapter has the following models: DSA-36PFN-12FCA 120300 / ADP-36PH B. Pre-scan these models of AC Adapters and find the worst case as a representative test condition. 2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
Worst Case:	1. AC Adapter Worst Condition:ADP-36PH B

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

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

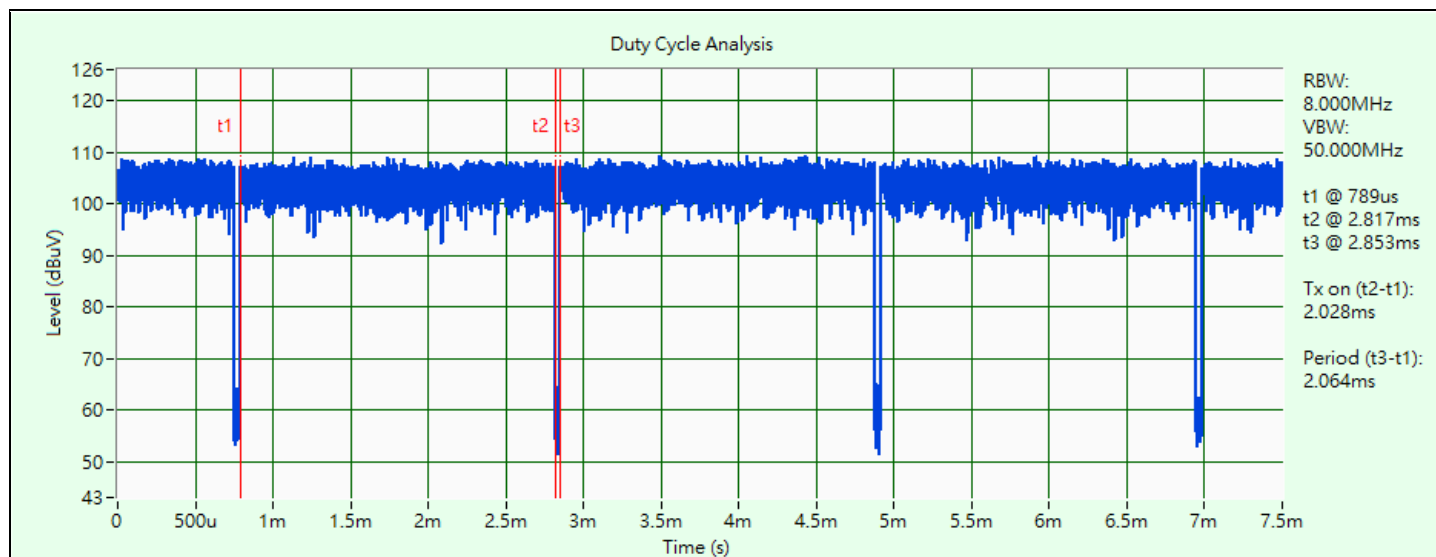
3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = 2.028 ms / 2.064 ms x 100% = 98.3%

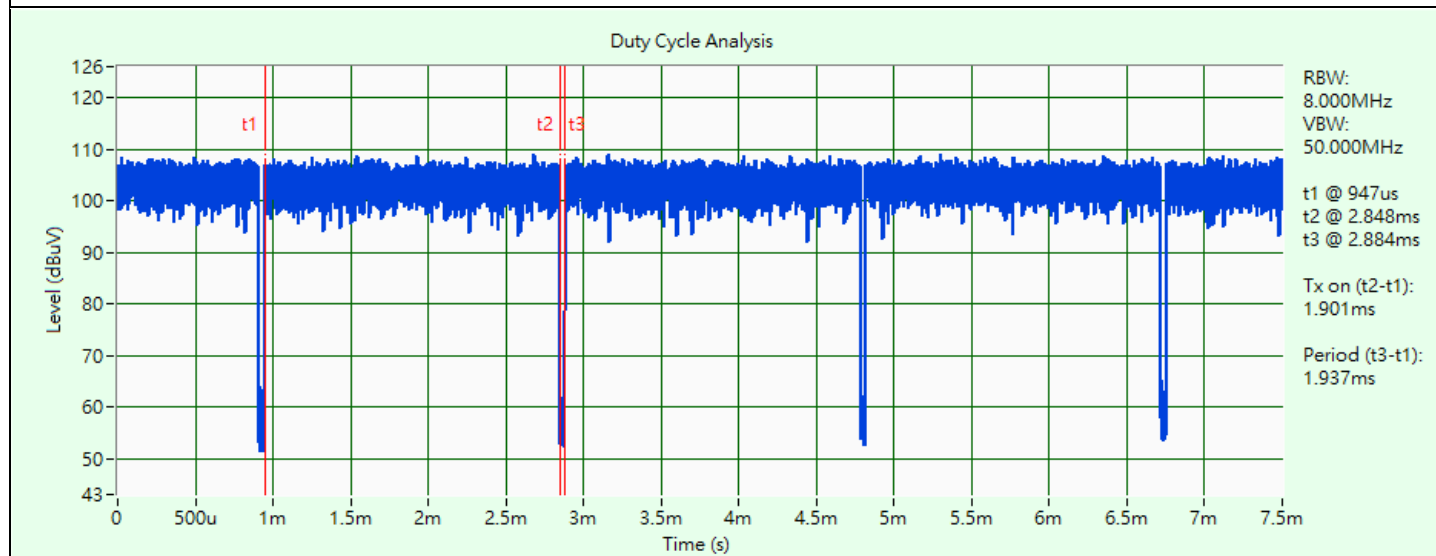
802.11ac (VHT20): Duty cycle = 1.901 ms / 1.937 ms x 100% = 98.1%

802.11ac (VHT40): Duty cycle = 3.594 ms / 3.627 ms x 100% = 99.1%

802.11ac (VHT80): Duty cycle = 1.68 ms / 1.716 ms x 100% = 97.9%, duty factor = 10 * log (1/Duty cycle) = 0.09 dB

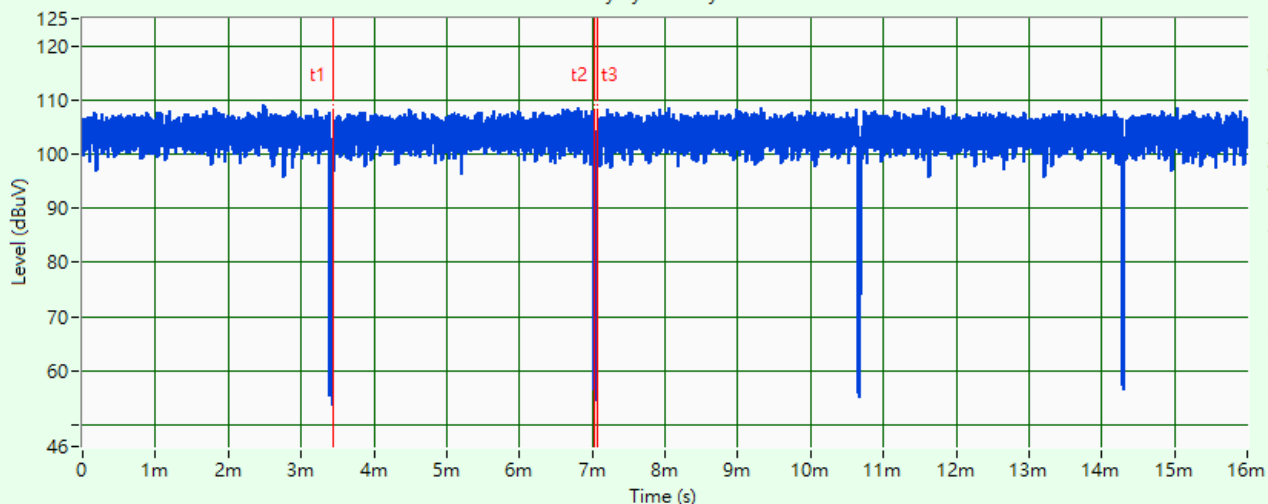


802.11a



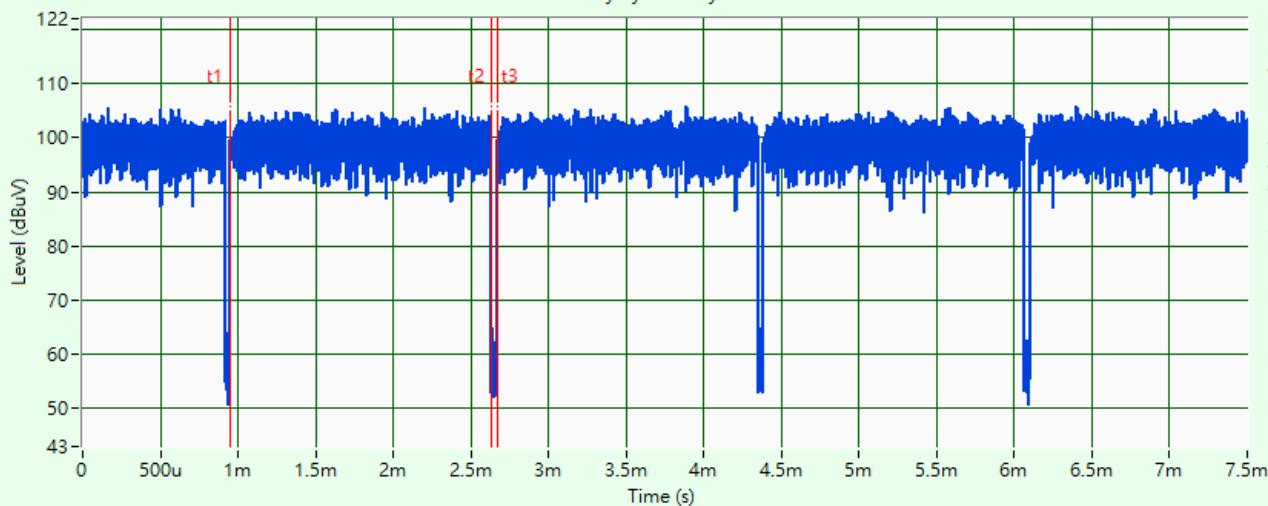
802.11ac (VHT20)

Duty Cycle Analysis



802.11ac (VHT40)

Duty Cycle Analysis



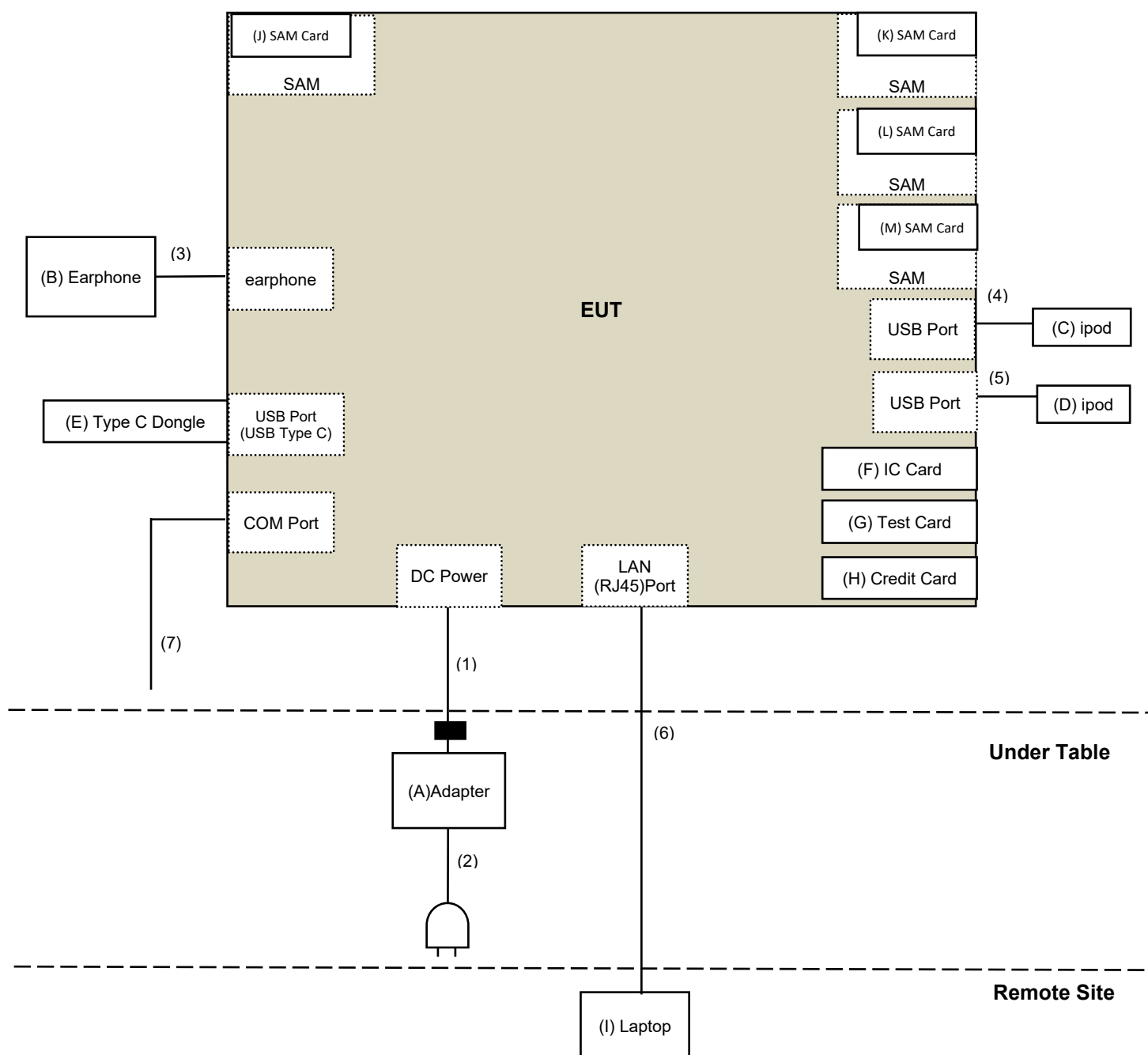
802.11ac (VHT80)

3.6 Test Program Used and Operation Descriptions

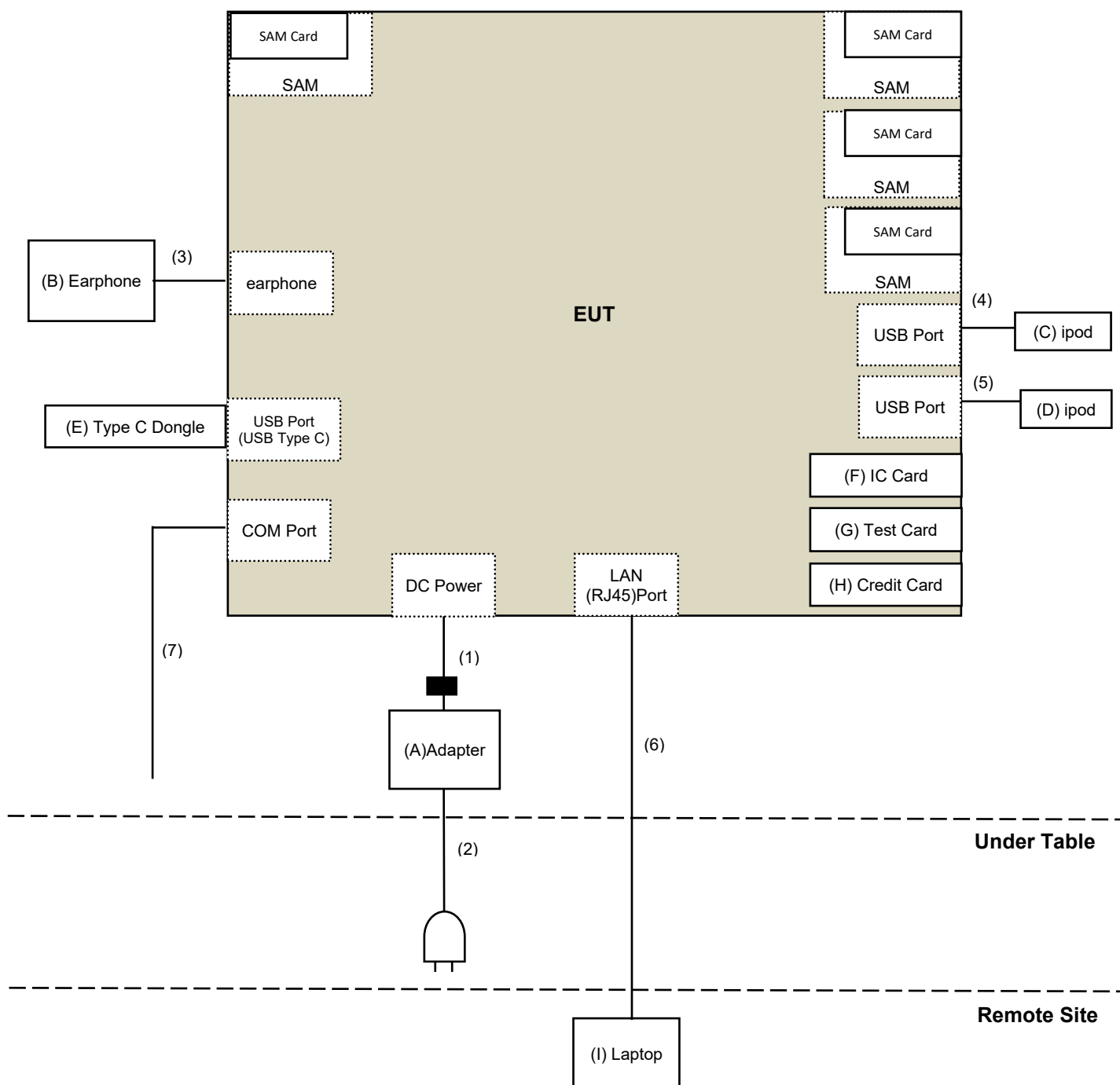
Controlling software (Wifi/BT: QDART_WIN_4_8_Installer_00057_1) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devicesaa

For Unwanted Emissions test:



For AC Power Conducted Emission test:



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Adapter	DELTA ELECTRONICS	ADP-36PH B	N/A	N/A	Supplied by applicant
B	Earphone	SONY	MDR-XB50AP	N/A	N/A	Provided by Lab
C	ipod	Apple	MD778TA/A	CC4JL03FF41	N/A	Provided by Lab
D	ipod	Apple	MC749TA/A	CC4DN25WDFDM	N/A	Provided by Lab
E	Type C Dongle	SanDisk	SDDDC4	N/A	N/A	Provided by Lab
F	IC Card	XAC	N/A	N/A	N/A	Supplied by applicant
G	Test Card	XAC	N/A	N/A	N/A	Supplied by applicant
H	Credit Card	XAC	N/A	N/A	N/A	Supplied by applicant
I	Laptop	HP	TP00120A	5CD8212YYK	DoC	Provided by Lab
J	SAM Card	XAC	N/A	N/A	N/A	Supplied by applicant
K	SAM Card	XAC	N/A	N/A	N/A	Supplied by applicant
L	SAM Card	XAC	N/A	N/A	N/A	Supplied by applicant
M	SAM Card	XAC	N/A	N/A	N/A	Supplied by applicant

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC cable	1	1.8	No	1	Supplied by applicant
2	AC Cable	1	1.2	No	0	Supplied by applicant
3	Audio Cable	1	1.2	No	0	Provided by Lab
4	USB Cable	1	0.1	Yes	0	Provided by Lab
5	USB Cable	1	0.1	Yes	0	Provided by Lab
6	RJ-45	1	10	No	0	Provided by Lab
7	RJ-12	1	1.5	No	0	Provided by Lab

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
PXA Signal Analyzer Keysight	N9030A	MY55330160	2025/1/16	2026/1/15
Software	ADT_RF Test Software V8	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/8/26

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2025/5/23	2026/5/22
Pulse Power Sensor Anritsu	MA2411B	1726434	2025/6/3	2026/6/2
RF Power Meter Anritsu	ML2495A	1529002	2025/6/3	2026/6/2

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/8/26

4.3 Power Spectral Density

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

4.4 6 dB Bandwidth

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

4.5 Occupied Bandwidth

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

4.6 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance Telegartner	50 ohm	3	2024/11/1	2025/10/31
EMI Test Receiver R&S	ESCS 30	100375	2025/5/21	2026/5/20
Fixed Attenuator STI	STI02-2200-10	005	2025/2/17	2026/2/16
LISN R&S	ESH3-Z5	835239/001	2025/3/27	2026/3/26
		848773/004	2024/10/7	2025/10/6
RF Coaxial Cable JYEBAO	5D-FB	COCCAB-001	2025/2/17	2026/2/16
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2025/9/6

4.7 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-0842	2024/10/8	2025/10/7
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
EMI Test Receiver R&S	ESR7	102026	2025/3/25	2026/3/24
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-02	2025/3/29	2026/3/28
Loop Antenna TESEQ	HLA 6121	63620	2024/10/17	2025/10/16
Preamplifier EMCI	EMC330N	980538	2025/3/29	2026/3/28
	EMC001340	980142	2025/2/17	2026/2/16
PXA Signal Analyzer Keysight	N9030B	MY57141948	2025/5/20	2026/5/19
RF Coaxial Cable PEWC	8D	966-5-1	2025/3/29	2026/3/28
		966-5-2	2025/3/29	2026/3/28
		966-5-3	2025/3/29	2026/3/28
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 5.
2. Tested Date: 2025/9/6

4.8 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
EMI Test Receiver R&S	ESR7	102026	2025/3/25	2026/3/24
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-1819	2024/11/10	2025/11/9
	BBHA 9170	9170-739	2024/11/10	2025/11/9
Preamplifier EMCI	EMC12630SE	980509	2025/1/18	2026/1/17
	EMC184045SE	980387	2025/8/7	2026/8/6
PXA Signal Analyzer Keysight	N9030B	MY57141948	2025/5/20	2026/5/19
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2025/1/24	2026/1/23
	EMC102-KM-KM-4000	200214	2025/1/24	2026/1/23
	EMC104-SM-SM-1500	180503	2025/3/8	2026/3/7
	EMC104-SM-SM-2000	180501	2025/3/8	2026/3/7
	EMC104-SM-SM-6000	180506	2025/3/8	2026/3/7
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 5.
2. Tested Date: 2025/8/14 ~ 2025/9/5

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

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

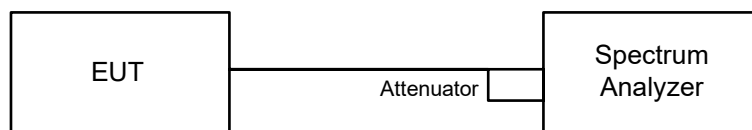
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

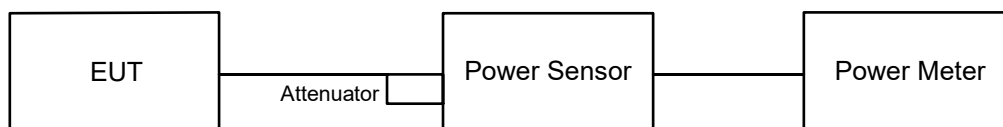


6.1.2 Test Procedure

- 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

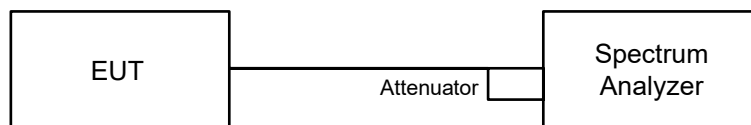


6.2.2 Test Procedure

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.

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz,
- Detector = RMS or sample detector mode
- 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.
- Trace average at least 100 traces in power averaging mode.
- Record the max value

For specified measurement bandwidth 1 MHz:

Method SA-2

- Measure the duty cycle D 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.
- 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.
- Detector = Power averaging (rms), if available. Otherwise, use sample detector mode.
- Do not use sweep triggering. Allow the sweep to "free run."
- Trace average at least 100 traces in power averaging (rms) mode;.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add $10 \log (1/\text{duty cycle})$.

For specified measurement bandwidth 500 kHz:

Method SA-1

- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = Power averaging (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.
- Trace average at least 100 traces in power averaging mode.
- Record the max value

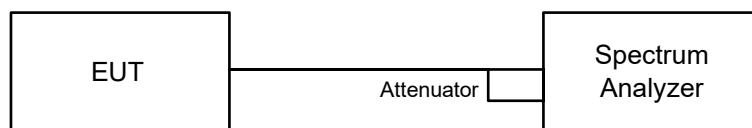
For specified measurement bandwidth 500 kHz:

Method SA-2

- Measure the duty cycle D 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 = Power averaging (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.
- 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

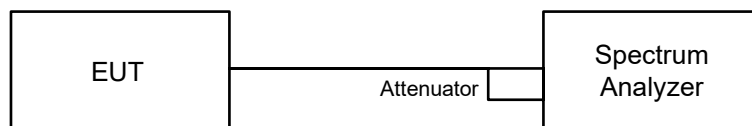


6.4.2 Test Procedure

- Set resolution bandwidth (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 by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

6.5 Occupied Bandwidth

6.5.1 Test Setup



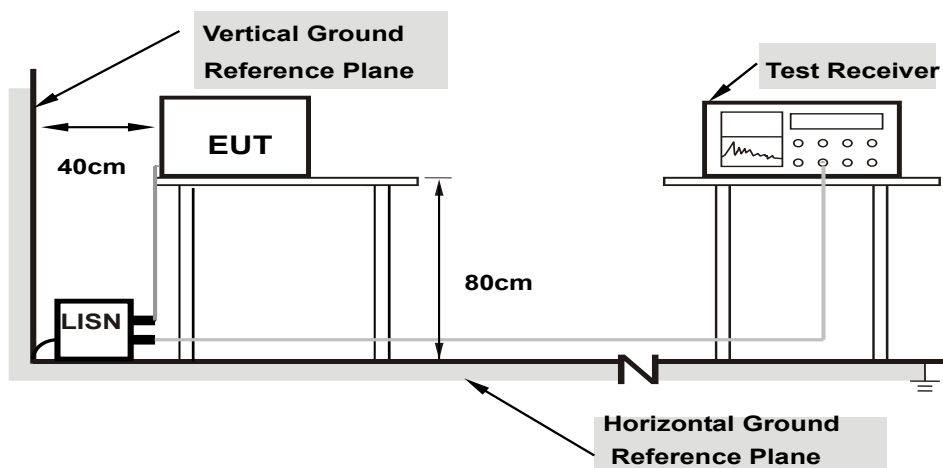
6.5.2 Test Procedure

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

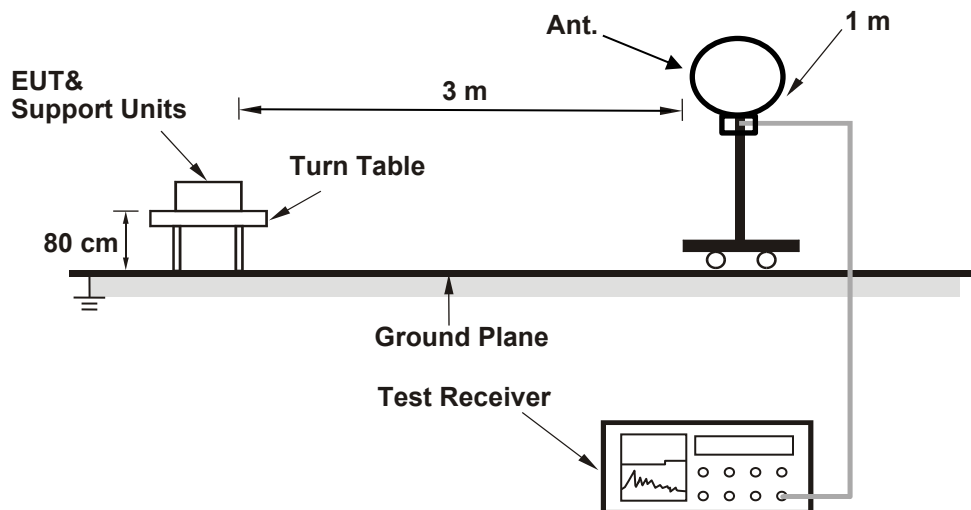
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

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

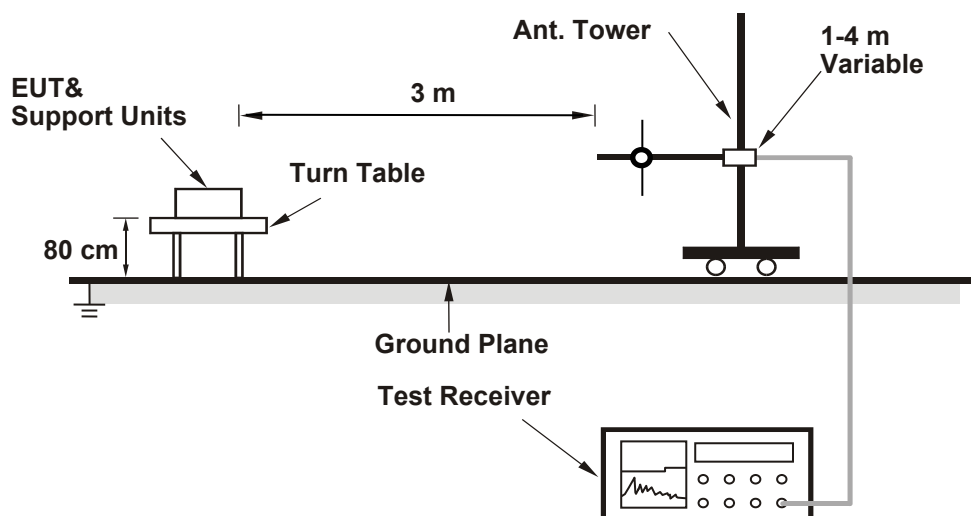
6.7 Unwanted Emissions below 1 GHz

6.7.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.7.2 Test Procedure

For Radiated emission below 30 MHz

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

Notes:

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

For Radiated emission above 30 MHz

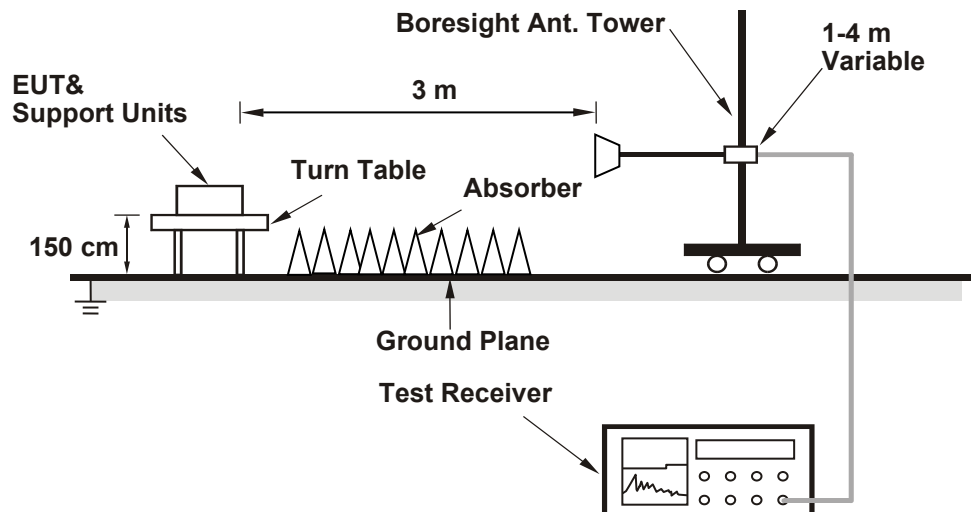
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

6.8 Unwanted Emissions above 1 GHz

6.8.1 Test Setup



For 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

Input Power:	12 Vdc	Environmental Conditions:	27°C, 63% RH	Tested By:	Dolly Chung
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
52	5260	36.92
60	5300	37.33
64	5320	27.56
100	5500	32.3
116	5580	33.19
140	5700	31.58

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	36.92	26.67	>	24
60	5300	37.33	26.72	>	24
64	5320	27.56	25.4	>	24
100	5500	32.30	26.09	>	24
116	5580	33.19	26.21	>	24
140	5700	31.58	25.99	>	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)
52	5260	38.94
60	5300	37.77
64	5320	26.97
100	5500	34.24
116	5580	36.19
140	5700	27.54

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	38.94	26.9	>	24
60	5300	37.77	26.77	>	24
64	5320	26.97	25.3	>	24
100	5500	34.24	26.34	>	24
116	5580	36.19	26.58	>	24
140	5700	27.54	25.39	>	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)
54	5270	78.38
62	5310	41.51
102	5510	41.84
110	5550	85.48
134	5670	86.72

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
54	5270	78.38	29.94	>	24
62	5310	41.51	27.18	>	24
102	5510	41.84	27.21	>	24
110	5550	85.48	30.31	>	24
134	5670	86.72	30.38	>	24

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

802.11ac (VHT80)

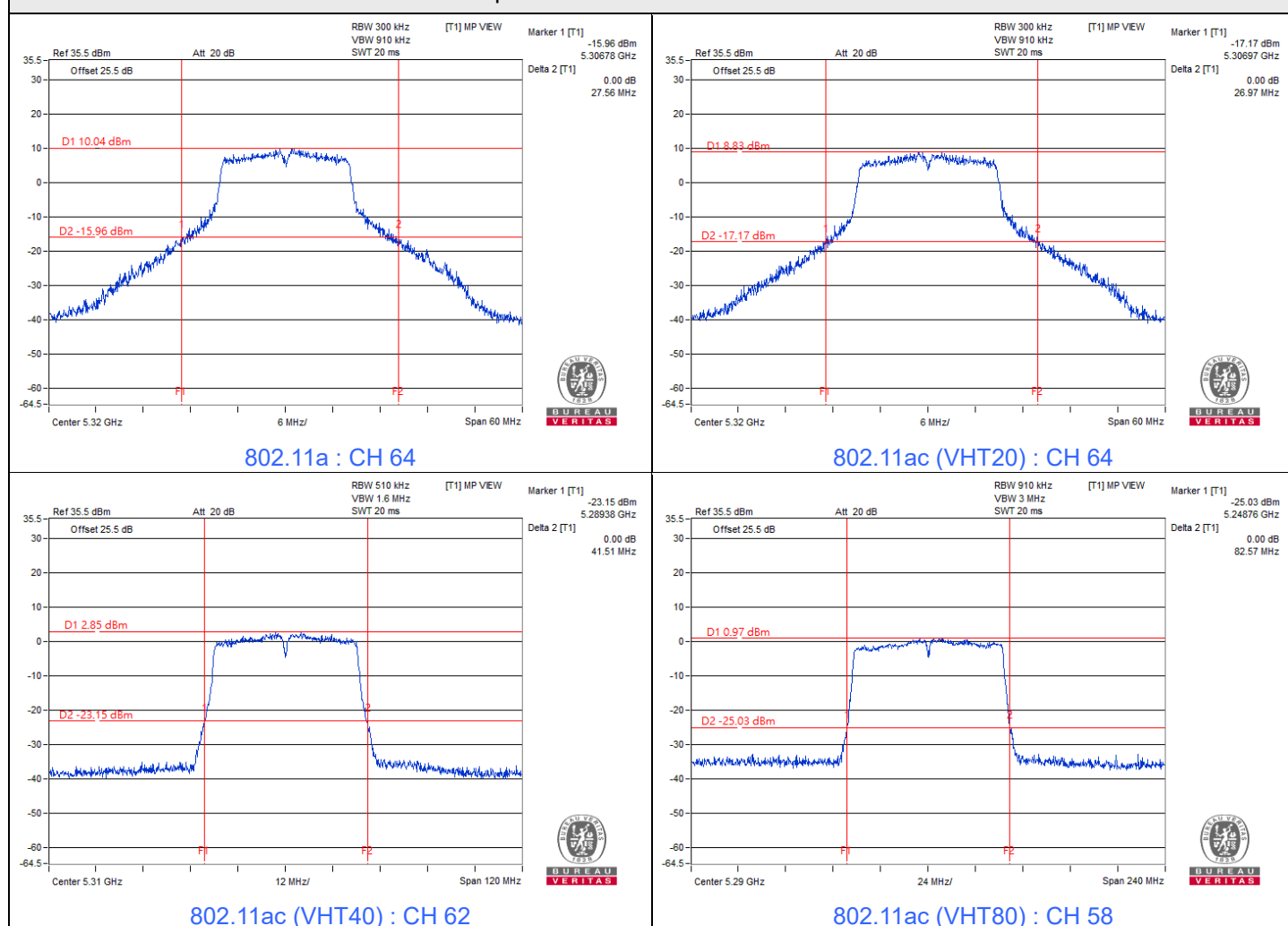
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
58	5290	82.57
106	5530	87.04
122	5610	166.42

Determined Output Power Limit

Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
58	5290	82.57	30.16	>	24
106	5530	87.04	30.39	>	24
122	5610	166.42	33.21	>	24

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

Spectrum Plot of Minimum Value



7.2 RF Output Power

Input Power:	12 Vdc	Environmental Conditions:	27°C, 63% RH	Tested By:	Dolly Chung
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802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	99.77	19.99	24	Pass
40	5200	130.317	21.15	24	Pass
48	5240	131.22	21.18	24	Pass
52	5260	125.893	21.00	24	Pass
60	5300	116.145	20.65	24	Pass
64	5320	59.566	17.75	24	Pass
100	5500	79.25	18.99	24	Pass
116	5580	87.297	19.41	24	Pass
140	5700	48.753	16.88	24	Pass
149	5745	68.077	18.33	30	Pass
157	5785	68.707	18.37	30	Pass
165	5825	74.645	18.73	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	90.782	19.58	24	Pass
40	5200	128.825	21.10	24	Pass
48	5240	131.826	21.20	24	Pass
52	5260	126.183	21.01	24	Pass
60	5300	116.413	20.66	24	Pass
64	5320	52.845	17.23	24	Pass
100	5500	76.208	18.82	24	Pass
116	5580	85.704	19.33	24	Pass
140	5700	38.194	15.82	24	Pass
149	5745	67.453	18.29	30	Pass
157	5785	66.374	18.22	30	Pass
165	5825	72.778	18.62	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
38	5190	38.637	15.87	24	Pass
46	5230	134.586	21.29	24	Pass
54	5270	108.893	20.37	24	Pass
62	5310	17.742	12.49	24	Pass
102	5510	28.973	14.62	24	Pass
110	5550	103.514	20.15	24	Pass
134	5670	77.804	18.91	24	Pass
151	5755	78.524	18.95	30	Pass
159	5795	79.25	18.99	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
42	5210	24.322	13.86	24	Pass
58	5290	11.94	10.77	24	Pass
106	5530	20.184	13.05	24	Pass
122	5610	72.444	18.60	24	Pass
155	5775	63.096	18.00	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

7.3 Power Spectral Density

Input Power:	12 Vdc	Environmental Conditions:	27°C, 63% RH	Tested By:	Dolly Chung
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802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	7.26	11	Pass
40	5200	8.34	11	Pass
48	5240	8.47	11	Pass
52	5260	8.45	11	Pass
60	5300	8.42	11	Pass
64	5320	5.60	11	Pass
100	5500	6.28	11	Pass
116	5580	7.71	11	Pass
140	5700	6.64	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	6.61	11	Pass
40	5200	7.96	11	Pass
48	5240	8.14	11	Pass
52	5260	8.07	11	Pass
60	5300	7.94	11	Pass
64	5320	4.78	11	Pass
100	5500	5.89	11	Pass
116	5580	7.35	11	Pass
140	5700	5.33	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
38	5190	-0.63	11	Pass
46	5230	5.58	11	Pass
54	5270	4.47	11	Pass
62	5310	-3.54	11	Pass
102	5510	-1.90	11	Pass
110	5550	4.79	11	Pass
134	5670	4.98	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
42	5210	-5.95	0.09	-5.86	11	Pass
58	5290	-8.36	0.09	-8.27	11	Pass
106	5530	-6.44	0.09	-6.35	11	Pass
122	5610	0.61	0.09	0.70	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
149	5745	2.66	4.88	30	Pass
157	5785	2.1	4.32	30	Pass
165	5825	1.57	3.79	30	Pass

Note: For U-NII-3, the antenna gain is 3.56 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
149	5745	2.38	4.60	30	Pass
157	5785	1.79	4.01	30	Pass
165	5825	1.18	3.40	30	Pass

Note: For U-NII-3, the antenna gain is 3.56 dBi <= 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT40)

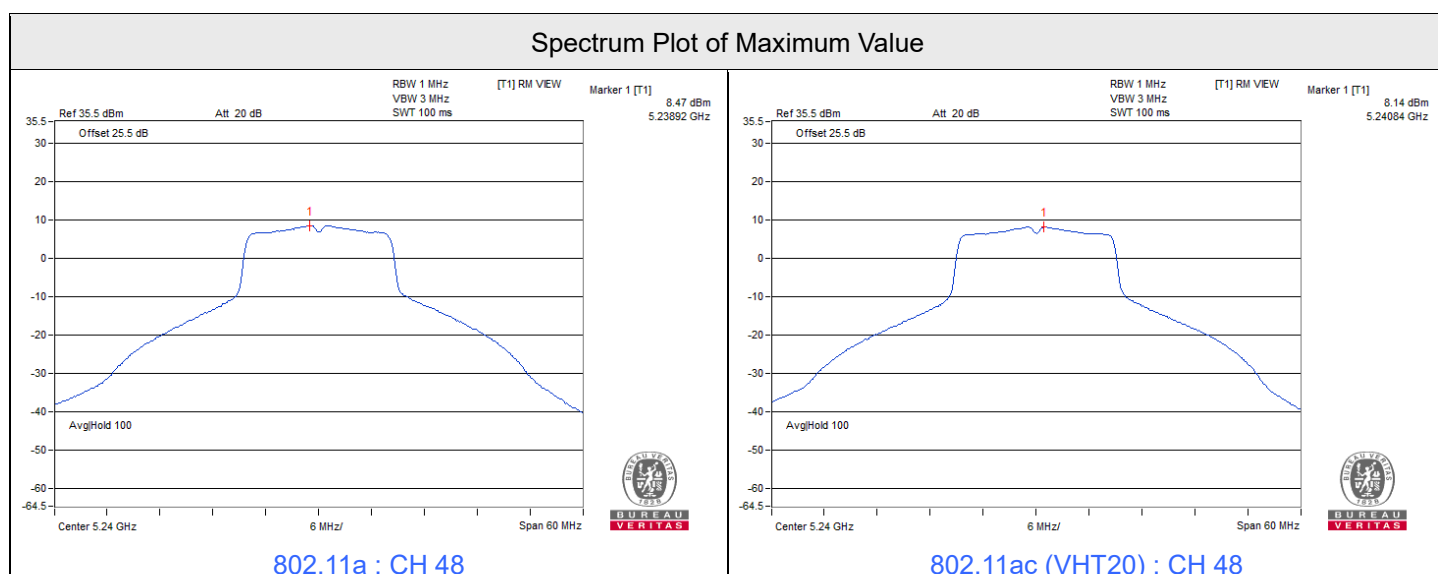
Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
151	5755	-0.35	1.87	30	Pass
159	5795	-6.54	-4.32	30	Pass

Note: For U-NII-3, the antenna gain is 3.56 dBi <= 6 dBi, so the power density limit shall not be reduced.

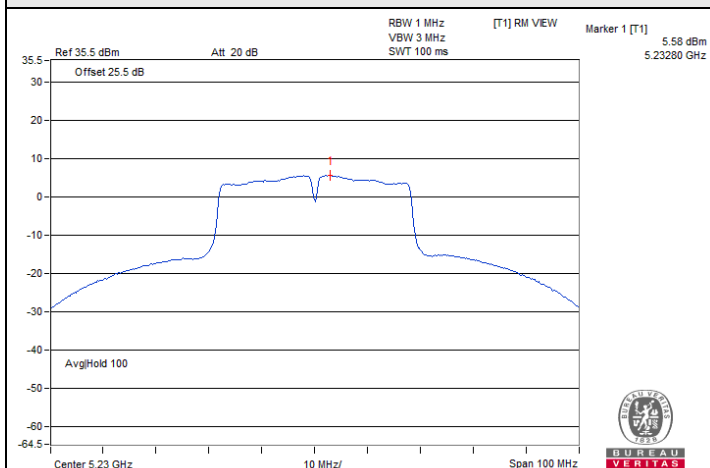
802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
155	5775	-4.46	0.09	-2.15	30	Pass

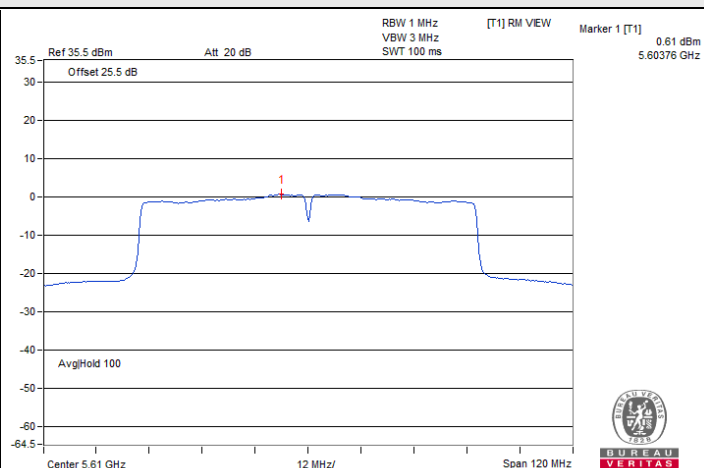
Note: For U-NII-3, the antenna gain is 3.56 dBi <= 6 dBi, so the power density limit shall not be reduced.



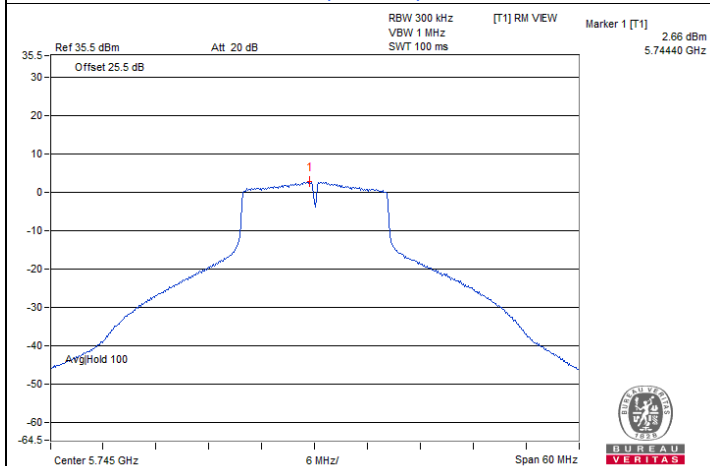
Spectrum Plot of Maximum Value



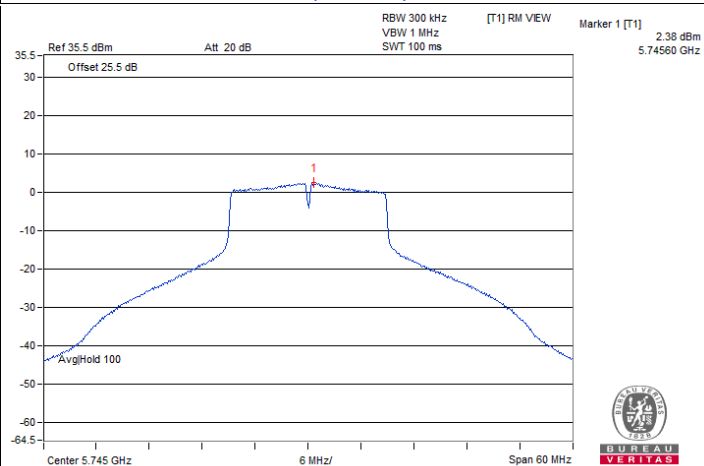
802.11ac (VHT40) : CH 46



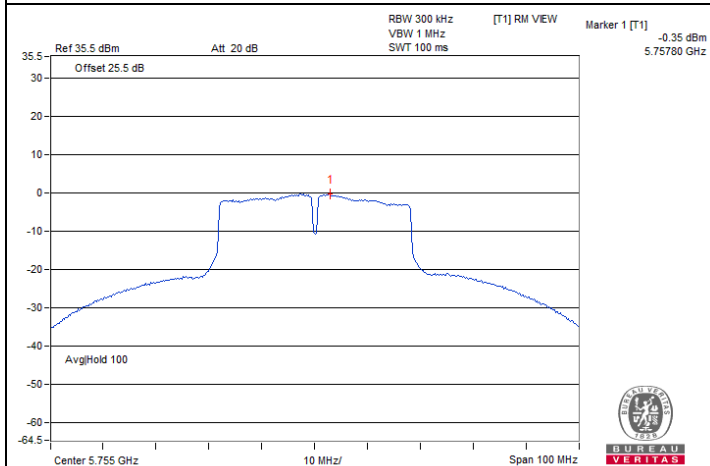
802.11ac (VHT80) : CH 122



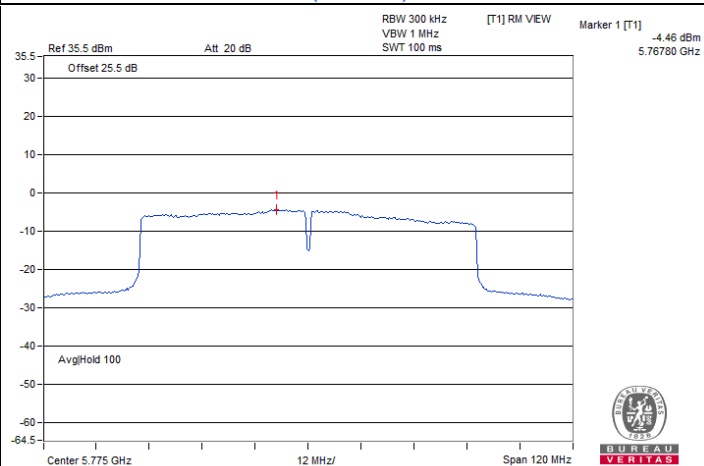
802.11a : CH 149



802.11ac (VHT20) : CH 149



802.11ac (VHT40) : CH 151



802.11ac (VHT80) : CH 155

7.4 6 dB Bandwidth

Input Power:	12 Vdc	Environmental Conditions:	27°C, 63% RH	Tested By:	Dolly Chung
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802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
149	5745	16.33	0.5	Pass
157	5785	16.43	0.5	Pass
165	5825	16.44	0.5	Pass

802.11ac (VHT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
149	5745	17.61	0.5	Pass
157	5785	17.64	0.5	Pass
165	5825	17.56	0.5	Pass

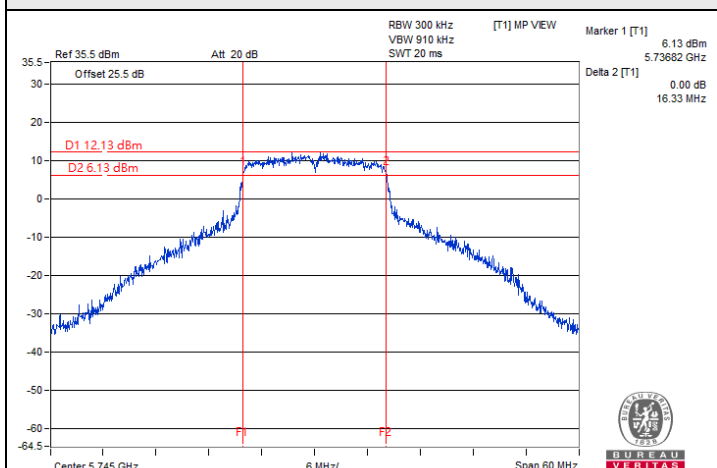
802.11ac (VHT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
151	5755	36.21	0.5	Pass
159	5795	36.28	0.5	Pass

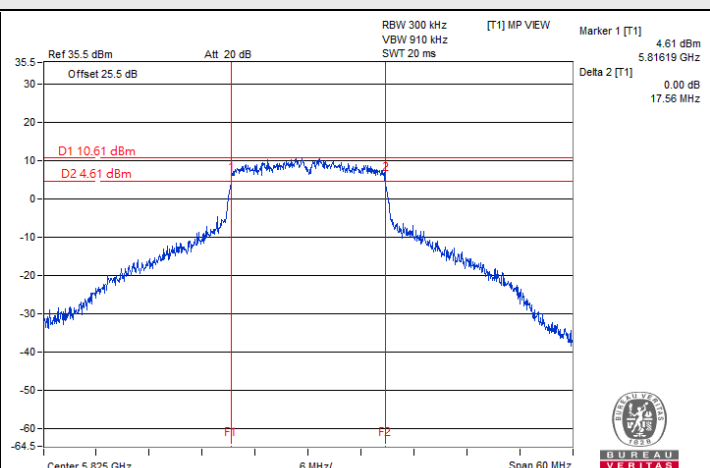
802.11ac (VHT80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
155	5775	76.1	0.5	Pass

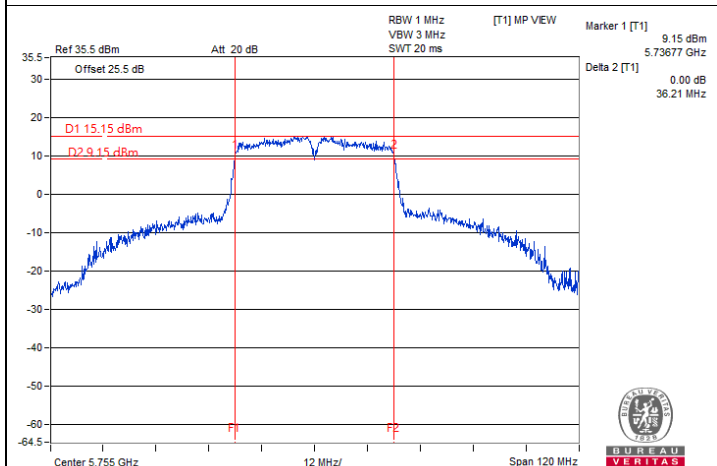
Spectrum Plot of Minimum Value



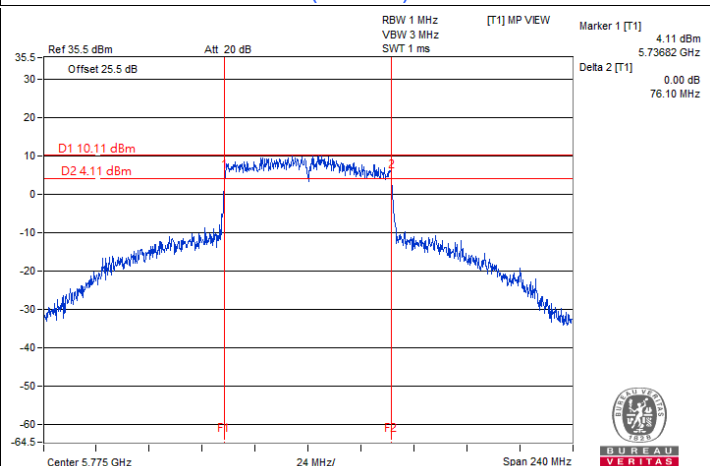
802.11a : CH 149



802.11ac (VHT20) : CH 165



802.11ac (VHT40) : CH 151



802.11ac (VHT80) : CH 155

7.5 Occupied Bandwidth

Input Power:	12 Vdc	Environmental Conditions:	27°C, 63% RH	Tested By:	Dolly Chung
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	18.6
40	5200	21.78
48	5240	19.68
52	5260	20.22
60	5300	20.7
64	5320	16.98
100	5500	18
116	5580	19.5
140	5700	17.34
149	5745	19.44
157	5785	19.8
165	5825	19.62

802.11ac (VHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	18.36
40	5200	21.66
48	5240	19.5
52	5260	20.94
60	5300	21.3
64	5320	17.94
100	5500	18.42
116	5580	19.92
140	5700	18
149	5745	21.48
157	5785	20.94
165	5825	19.86

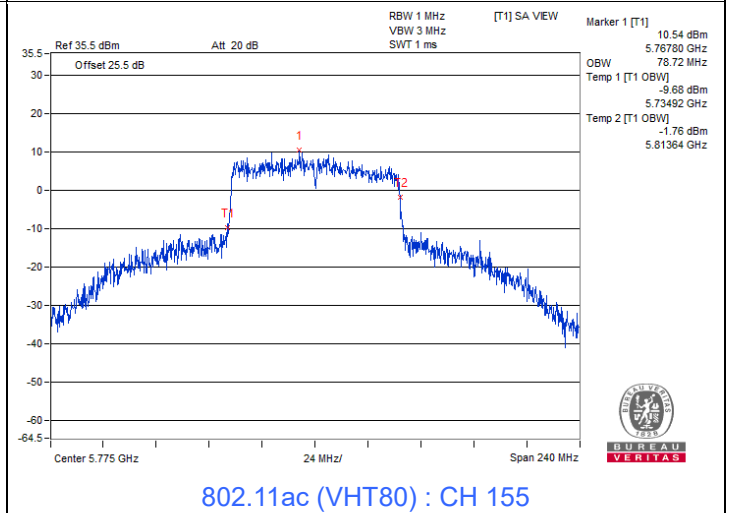
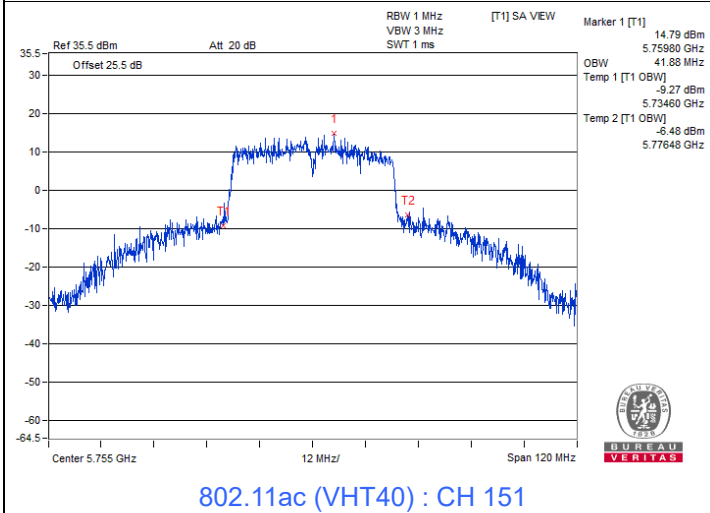
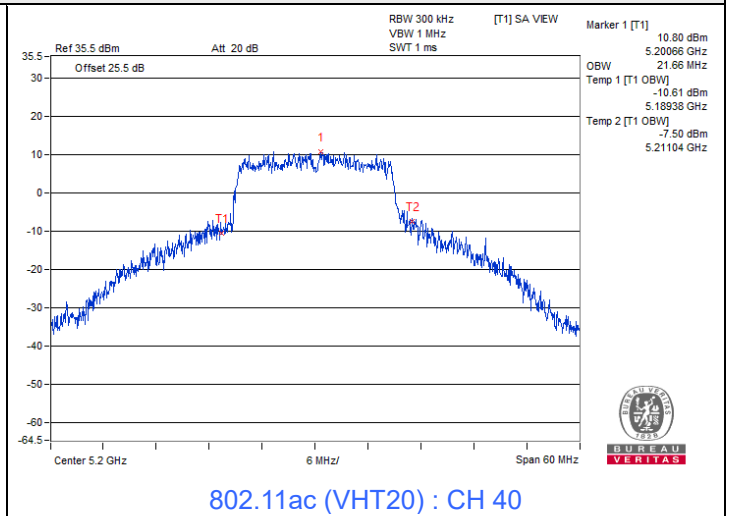
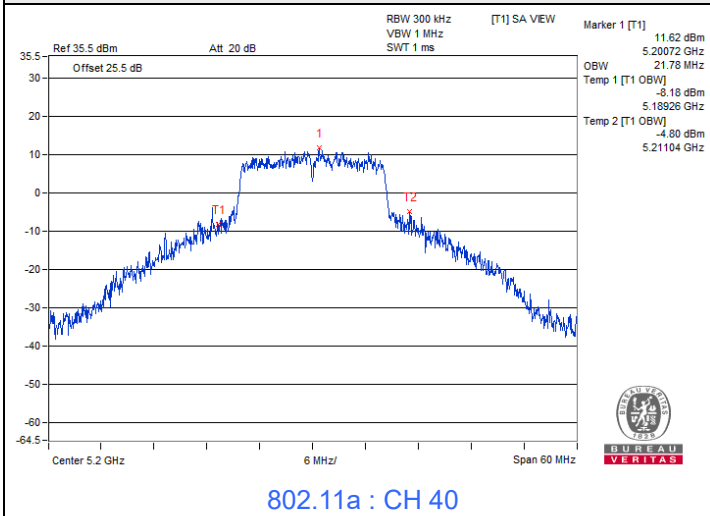
802.11ac (VHT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
38	5190	36.48
46	5230	38.88
54	5270	37.32
62	5310	36.36
102	5510	36.48
110	5550	38.04
134	5670	39.48
151	5755	41.88
159	5795	39.12

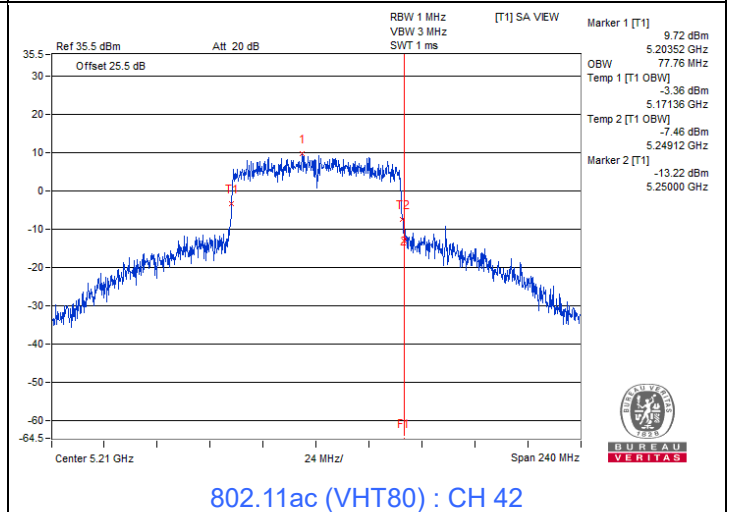
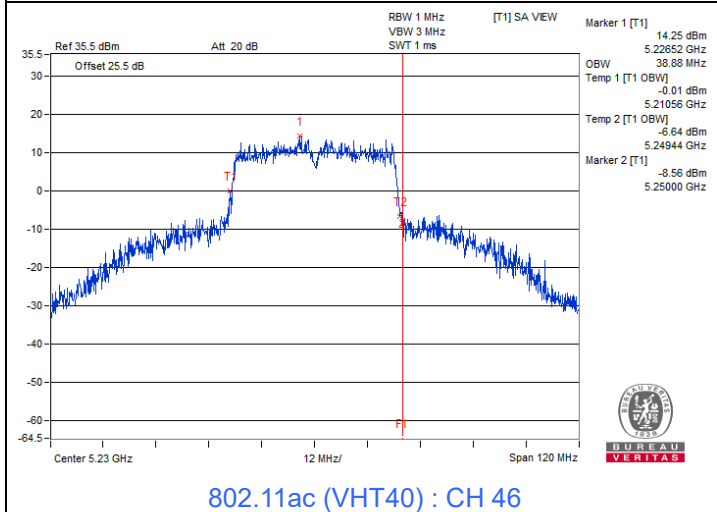
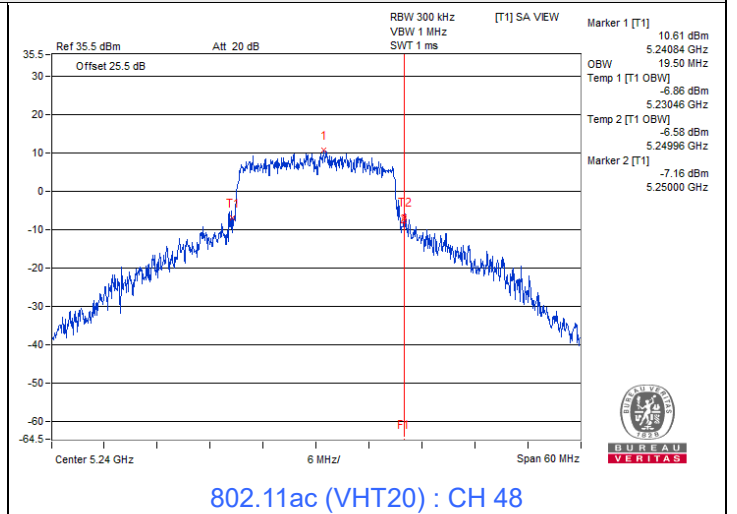
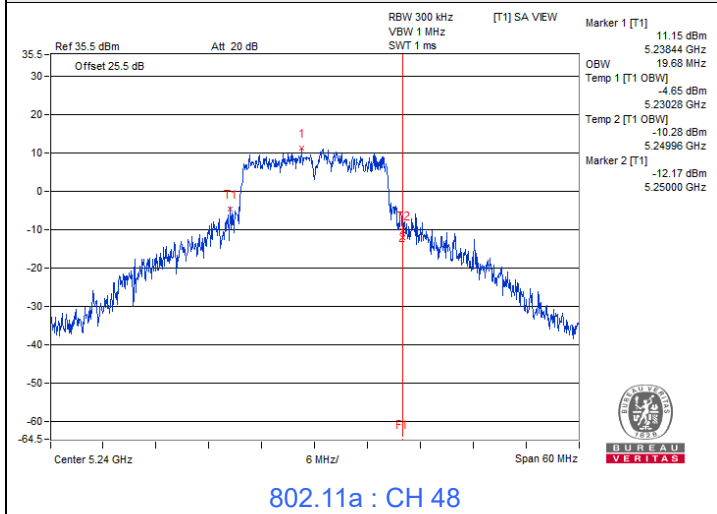
802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
42	5210	77.76
58	5290	75.6
106	5530	75.6
122	5610	77.76
155	5775	78.72

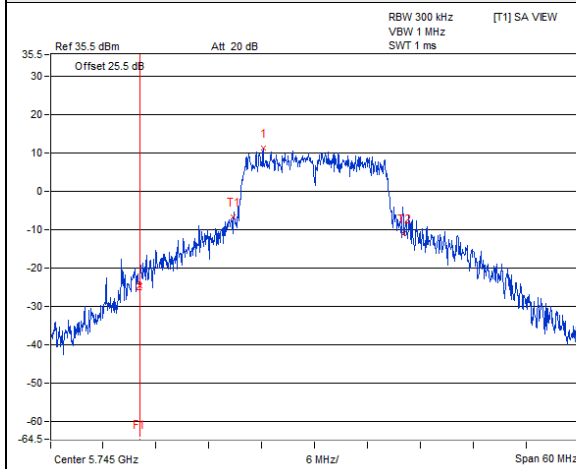
Spectrum Plot of Maximum Value



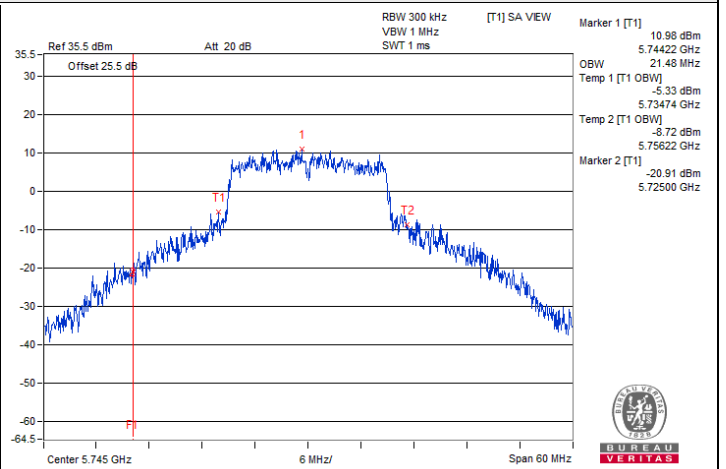
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



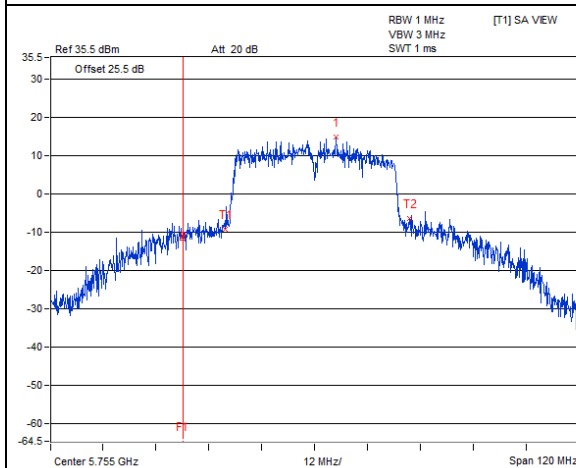
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



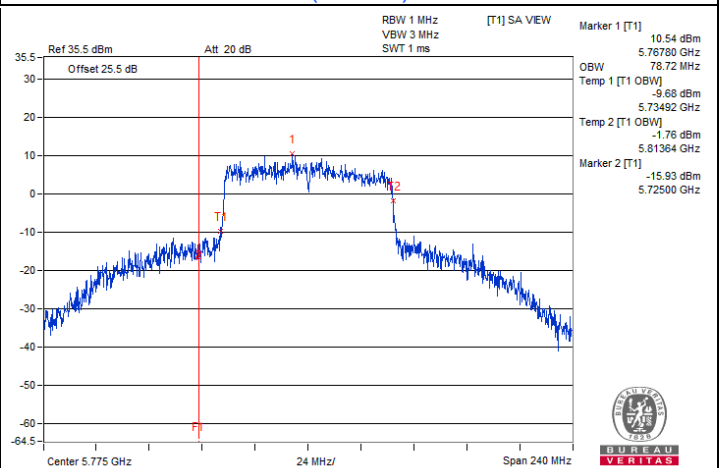
802.11a : CH 149



802.11ac (VHT20) : CH 149



802.11ac (VHT40) : CH 151



802.11ac (VHT80) : CH 155

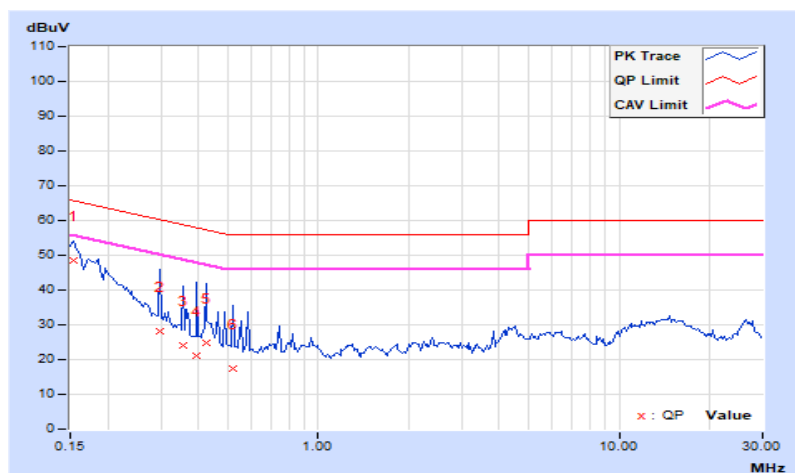
7.6 AC Power Conducted Emissions

RF Mode	802.11ac (VHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 50% RH
Tested By	Roy Mai		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.96	38.49	21.29	48.45	31.25	65.79	55.79	-17.34	-24.54
2	0.29844	9.99	18.19	1.90	28.18	11.89	60.29	50.29	-32.11	-38.40
3	0.35703	9.99	14.04	-2.79	24.03	7.20	58.80	48.80	-34.77	-41.60
4	0.39609	9.99	10.97	-2.49	20.96	7.50	57.93	47.93	-36.97	-40.43
5	0.42344	9.99	14.84	1.22	24.83	11.21	57.38	47.38	-32.55	-36.17
6	0.52109	10.00	7.25	-5.76	17.25	4.24	56.00	46.00	-38.75	-41.76

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

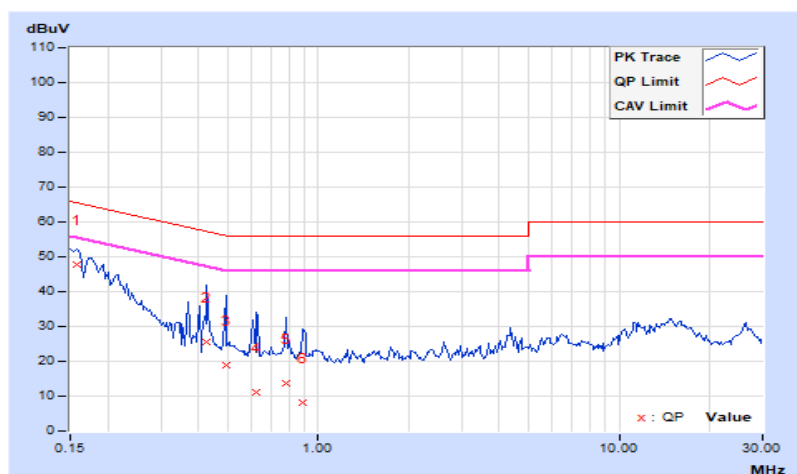


RF Mode	802.11ac (VHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	22 °C, 50% RH
Tested By	Roy Mai		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	10.01	37.69	19.00	47.70	29.01	65.58	55.58	-17.88	-26.57
2	0.42734	10.00	15.41	0.74	25.41	10.74	57.30	47.30	-31.89	-36.56
3	0.49375	10.01	9.06	-2.22	19.07	7.79	56.10	46.10	-37.03	-38.31
4	0.62266	10.02	1.16	-8.10	11.18	1.92	56.00	46.00	-44.82	-44.08
5	0.77891	10.03	3.56	-2.36	13.59	7.67	56.00	46.00	-42.41	-38.33
6	0.89219	10.04	-1.72	-7.72	8.32	2.32	56.00	46.00	-47.68	-43.68

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



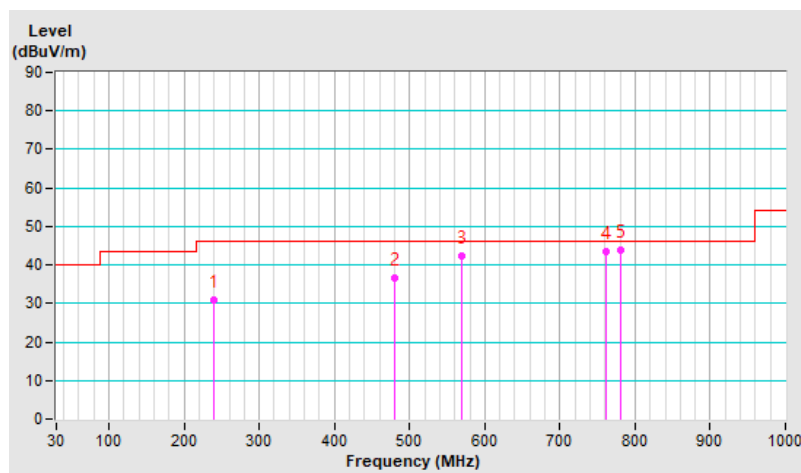
7.7 Unwanted Emissions below 1 GHz

RF Mode	802.11ac (VHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	20 °C, 64% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	240.00	30.8 QP	46.0	-15.2	1.00 H	238	44.6	-13.8
2	480.01	36.6 QP	46.0	-9.4	2.00 H	153	43.6	-7.0
3	568.50	42.4 QP	46.0	-3.6	1.50 H	146	47.7	-5.3
4	762.11	43.6 QP	46.0	-2.4	1.00 H	147	45.2	-1.6
5	781.53	43.7 QP	46.0	-2.3	1.00 H	148	44.9	-1.2

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 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.

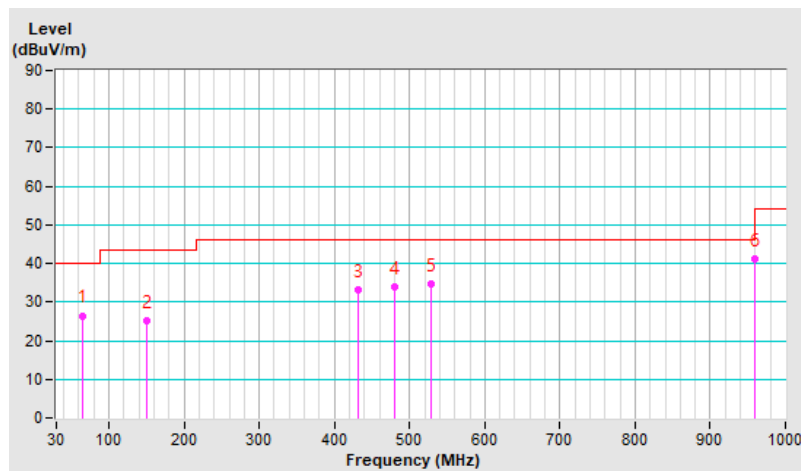


RF Mode	802.11ac (VHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	20 °C, 64% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	63.97	26.5 QP	40.0	-13.5	1.50 V	360	40.1	-13.6
2	150.47	25.1 QP	43.5	-18.4	1.50 V	9	37.4	-12.3
3	431.99	33.3 QP	46.0	-12.7	1.00 V	175	41.4	-8.1
4	480.01	33.9 QP	46.0	-12.1	1.00 V	172	40.9	-7.0
5	528.00	34.7 QP	46.0	-11.3	1.00 V	61	40.9	-6.2
6	960.00	41.3 QP	46.0	-4.7	1.00 V	81	39.5	1.8

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=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.9 PK	74.0	-21.1	1.00 H	335	50.2	2.7
2	5150.00	44.9 AV	54.0	-9.1	1.00 H	335	42.2	2.7
3	*5180.00	105.4 PK			1.00 H	335	102.8	2.6
4	*5180.00	96.0 AV			1.00 H	335	93.4	2.6
5	#10360.00	40.6 PK	68.2	-27.6	1.26 H	223	28.3	12.3
6	15540.00	37.9 PK	74.0	-36.1	1.49 H	202	26.0	11.9
7	15540.00	30.8 AV	54.0	-23.2	1.49 H	202	18.9	11.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.1 PK	74.0	-9.9	2.26 V	322	61.4	2.7
2	5150.00	53.5 AV	54.0	-0.5	2.26 V	322	50.8	2.7
3	*5180.00	114.4 PK			2.26 V	322	111.8	2.6
4	*5180.00	104.6 AV			2.26 V	322	102.0	2.6
5	#10360.00	45.7 PK	68.2	-22.5	1.11 V	211	33.4	12.3
6	15540.00	41.5 PK	74.0	-32.5	1.47 V	237	29.6	11.9
7	15540.00	36.7 AV	54.0	-17.3	1.47 V	237	24.8	11.9

Remarks:

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

RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	53.5 PK	74.0	-20.5	1.00 H	342	50.8	2.7
2	5150.00	45.3 AV	54.0	-8.7	1.00 H	342	42.6	2.7
3	*5200.00	105.0 PK			1.04 H	340	102.4	2.6
4	*5200.00	95.7 AV			1.04 H	340	93.1	2.6
5	#10400.00	40.7 PK	68.2	-27.5	1.24 H	230	28.3	12.4
6	15600.00	37.9 PK	74.0	-36.1	1.51 H	216	26.1	11.8
7	15600.00	30.5 AV	54.0	-23.5	1.51 H	216	18.7	11.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.2 PK	74.0	-14.8	2.48 V	321	56.5	2.7
2	5150.00	47.6 AV	54.0	-6.4	2.48 V	321	44.9	2.7
3	*5200.00	116.4 PK			2.48 V	321	113.8	2.6
4	*5200.00	105.7 AV			2.48 V	321	103.1	2.6
5	#10400.00	45.3 PK	68.2	-22.9	1.06 V	220	32.9	12.4
6	15600.00	41.4 PK	74.0	-32.6	1.49 V	247	29.6	11.8
7	15600.00	36.7 AV	54.0	-17.3	1.49 V	247	24.9	11.8

Remarks:

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

RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	105.1 PK			1.00 H	343	102.7	2.4
2	*5240.00	95.7 AV			1.00 H	343	93.3	2.4
3	5350.00	53.1 PK	74.0	-20.9	1.05 H	331	50.8	2.3
4	5350.00	44.9 AV	54.0	-9.1	1.05 H	331	42.6	2.3
5	#10480.00	40.6 PK	68.2	-27.6	1.26 H	223	28.2	12.4
6	15720.00	38.2 PK	74.0	-35.8	1.44 H	206	25.9	12.3
7	15720.00	31.1 AV	54.0	-22.9	1.44 H	206	18.8	12.3
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	*5240.00	116.7 PK			2.24 V	322	114.3	2.4
2	*5240.00	105.8 AV			2.24 V	322	103.4	2.4
3	5350.00	53.1 PK	74.0	-20.9	2.24 V	322	50.8	2.3
4	5350.00	40.2 AV	54.0	-13.8	2.24 V	322	37.9	2.3
5	#10480.00	45.7 PK	68.2	-22.5	1.11 V	205	33.3	12.4
6	15720.00	41.7 PK	74.0	-32.3	1.47 V	253	29.4	12.3
7	15720.00	37.1 AV	54.0	-16.9	1.47 V	253	24.8	12.3

Remarks:

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

RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.9 PK	74.0	-21.1	1.00 H	322	50.2	2.7
2	5150.00	44.9 AV	54.0	-9.1	1.00 H	322	42.2	2.7
3	*5260.00	105.5 PK			1.06 H	349	103.2	2.3
4	*5260.00	95.9 AV			1.06 H	349	93.6	2.3
5	#10520.00	40.3 PK	68.2	-27.9	1.21 H	238	28.0	12.3
6	15780.00	37.7 PK	74.0	-36.3	1.52 H	188	25.7	12.0
7	15780.00	30.8 AV	54.0	-23.2	1.52 H	188	18.8	12.0
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	5150.00	52.6 PK	74.0	-21.4	2.45 V	323	49.9	2.7
2	5150.00	40.1 AV	54.0	-13.9	2.45 V	323	37.4	2.7
3	*5260.00	116.1 PK			2.45 V	323	113.8	2.3
4	*5260.00	105.8 AV			2.45 V	323	103.5	2.3
5	#10520.00	46.4 PK	68.2	-21.8	1.06 V	213	34.1	12.3
6	15780.00	41.7 PK	74.0	-32.3	1.43 V	252	29.7	12.0
7	15780.00	36.9 AV	54.0	-17.1	1.43 V	252	24.9	12.0

Remarks:

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

RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	105.1 PK			1.01 H	327	102.8	2.3
2	*5300.00	95.5 AV			1.01 H	327	93.2	2.3
3	10600.00	40.8 PK	74.0	-33.2	1.29 H	219	28.4	12.4
4	10600.00	33.9 AV	54.0	-20.1	1.29 H	219	21.5	12.4
5	15900.00	37.9 PK	74.0	-36.1	1.49 H	193	25.7	12.2
6	15900.00	30.9 AV	54.0	-23.1	1.49 H	193	18.7	12.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	116.3 PK			2.50 V	328	114.0	2.3
2	*5300.00	105.3 AV			2.50 V	328	103.0	2.3
3	10600.00	45.9 PK	74.0	-28.1	1.05 V	203	33.5	12.4
4	10600.00	40.2 AV	54.0	-13.8	1.05 V	203	27.8	12.4
5	15900.00	42.0 PK	74.0	-32.0	1.50 V	251	29.8	12.2
6	15900.00	36.9 AV	54.0	-17.1	1.50 V	251	24.7	12.2

Remarks:

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

RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 73% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	107.0 PK			1.50 H	205	104.7	2.3
2	*5320.00	97.5 AV			1.50 H	205	95.2	2.3
3	5350.00	56.5 PK	74.0	-17.5	1.50 H	205	54.2	2.3
4	5350.00	46.8 AV	54.0	-7.2	1.50 H	205	44.5	2.3
5	10640.00	41.2 PK	74.0	-32.8	1.29 H	230	28.9	12.3
6	10640.00	34.2 AV	54.0	-19.8	1.29 H	230	21.9	12.3
7	15960.00	38.2 PK	74.0	-35.8	1.54 H	190	26.5	11.7
8	15960.00	31.1 AV	54.0	-22.9	1.54 H	190	19.4	11.7
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	*5320.00	113.0 PK			2.49 V	331	110.7	2.3
2	*5320.00	102.8 AV			2.49 V	331	100.5	2.3
3	5350.00	67.3 PK	74.0	-6.7	2.49 V	331	65.0	2.3
4	5350.00	53.4 AV	54.0	-0.6	2.49 V	331	51.1	2.3
5	10640.00	45.6 PK	74.0	-28.4	1.14 V	210	33.3	12.3
6	10640.00	39.5 AV	54.0	-14.5	1.14 V	210	27.2	12.3
7	15960.00	41.5 PK	74.0	-32.5	1.48 V	228	29.8	11.7
8	15960.00	37.0 AV	54.0	-17.0	1.48 V	228	25.3	11.7

Remarks:

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

RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 73% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	52.1 PK	74.0	-21.9	1.50 H	145	49.7	2.4
2	5460.00	40.7 AV	54.0	-13.3	1.50 H	145	38.3	2.4
3	#5470.00	59.7 PK	68.2	-8.5	1.50 H	145	57.3	2.4
4	*5500.00	106.1 PK			1.50 H	145	103.6	2.5
5	*5500.00	96.2 AV			1.50 H	145	93.7	2.5
6	11000.00	40.3 PK	74.0	-33.7	1.28 H	235	27.4	12.9
7	11000.00	33.4 AV	54.0	-20.6	1.28 H	235	20.5	12.9
8	#16500.00	37.6 PK	68.2	-30.6	1.47 H	187	23.1	14.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.5 PK	74.0	-14.5	2.59 V	327	57.1	2.4
2	5460.00	47.1 AV	54.0	-6.9	2.59 V	327	44.7	2.4
3	#5470.00	68.0 PK	68.2	-0.2	2.59 V	327	65.6	2.4
4	*5500.00	114.5 PK			2.59 V	327	112.0	2.5
5	*5500.00	103.9 AV			2.59 V	327	101.4	2.5
6	11000.00	46.1 PK	74.0	-27.9	1.07 V	198	33.2	12.9
7	11000.00	40.0 AV	54.0	-14.0	1.07 V	198	27.1	12.9
8	#16500.00	41.8 PK	68.2	-26.4	1.43 V	231	27.3	14.5

Remarks:

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

RF Mode	802.11a	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=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	105.7 PK			2.11 H	321	103.3	2.4
2	*5580.00	95.3 AV			2.11 H	321	92.9	2.4
3	11160.00	39.9 PK	74.0	-34.1	1.32 H	224	26.9	13.0
4	11160.00	33.4 AV	54.0	-20.6	1.32 H	224	20.4	13.0
5	#16740.00	38.0 PK	68.2	-30.2	1.52 H	200	22.4	15.6
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	*5580.00	114.6 PK			2.55 V	329	112.2	2.4
2	*5580.00	104.2 AV			2.55 V	329	101.8	2.4
3	11160.00	45.4 PK	74.0	-28.6	1.12 V	210	32.4	13.0
4	11160.00	39.5 AV	54.0	-14.5	1.12 V	210	26.5	13.0
5	#16740.00	41.5 PK	68.2	-26.7	1.47 V	235	25.9	15.6

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 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	103.6 PK			2.10 H	257	101.1	2.5
2	*5700.00	92.1 AV			2.10 H	257	89.6	2.5
3	#5725.00	60.7 PK	68.2	-7.5	2.21 H	219	58.1	2.6
4	11400.00	39.7 PK	74.0	-34.3	1.34 H	213	26.7	13.0
5	11400.00	33.2 AV	54.0	-20.8	1.34 H	213	20.2	13.0
6	#17100.00	38.3 PK	68.2	-29.9	1.58 H	214	21.2	17.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	112.8 PK			2.71 V	328	110.3	2.5
2	*5700.00	102.4 AV			2.71 V	328	99.9	2.5
3	#5725.00	66.9 PK	68.2	-1.3	2.71 V	328	64.3	2.6
4	11400.00	45.1 PK	74.0	-28.9	1.07 V	223	32.1	13.0
5	11400.00	39.5 AV	54.0	-14.5	1.07 V	223	26.5	13.0
6	#17100.00	41.7 PK	68.2	-26.5	1.53 V	230	24.6	17.1

Remarks:

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

RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.00	50.3 PK	68.2	-17.9	2.22 H	289	47.9	2.4
2	*5745.00	105.3 PK			2.22 H	289	102.6	2.7
3	*5745.00	93.6 AV			2.22 H	289	90.9	2.7
4	#5970.00	51.4 PK	68.2	-16.8	2.22 H	289	48.5	2.9
5	11490.00	40.4 PK	74.0	-33.6	1.34 H	223	27.3	13.1
6	11490.00	33.8 AV	54.0	-20.2	1.34 H	223	20.7	13.1
7	#17235.00	37.7 PK	68.2	-30.5	1.48 H	194	20.4	17.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.40	51.9 PK	68.2	-16.3	2.66 V	336	49.5	2.4
2	*5745.00	113.8 PK			2.66 V	336	111.1	2.7
3	*5745.00	102.8 AV			2.66 V	336	100.1	2.7
4	#5967.90	52.2 PK	68.2	-16.0	2.66 V	336	49.3	2.9
5	11490.00	45.6 PK	74.0	-28.4	1.08 V	211	32.5	13.1
6	11490.00	39.8 AV	54.0	-14.2	1.08 V	211	26.7	13.1
7	#17235.00	41.3 PK	68.2	-26.9	1.43 V	243	24.0	17.3

Remarks:

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

RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5630.70	49.8 PK	68.2	-18.4	1.58 H	254	47.4	2.4
2	*5785.00	105.4 PK			1.58 H	254	102.6	2.8
3	*5785.00	95.8 AV			1.58 H	254	93.0	2.8
4	#5930.10	50.6 PK	68.2	-17.6	1.58 H	254	47.5	3.1
5	11570.00	40.7 PK	74.0	-33.3	1.38 H	233	27.5	13.2
6	11570.00	34.2 AV	54.0	-19.8	1.38 H	233	21.0	13.2
7	#17355.00	37.6 PK	68.2	-30.6	1.46 H	199	19.5	18.1
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	#5634.10	51.3 PK	68.2	-16.9	2.36 V	276	48.9	2.4
2	*5785.00	112.9 PK			2.36 V	276	110.1	2.8
3	*5785.00	101.9 AV			2.36 V	276	99.1	2.8
4	#5928.10	53.2 PK	68.2	-15.0	2.36 V	276	50.1	3.1
5	11570.00	45.6 PK	74.0	-28.4	1.08 V	206	32.4	13.2
6	11570.00	39.8 AV	54.0	-14.2	1.08 V	206	26.6	13.2
7	#17355.00	41.8 PK	68.2	-26.4	1.42 V	224	23.7	18.1

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 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5631.00	48.8 PK	68.2	-19.4	1.55 H	253	46.4	2.4
2	*5825.00	105.4 PK			1.55 H	253	102.4	3.0
3	*5825.00	93.7 AV			1.55 H	253	90.7	3.0
4	#5944.80	49.3 PK	68.2	-18.9	1.55 H	253	46.2	3.1
5	11650.00	40.4 PK	74.0	-33.6	1.27 H	233	27.5	12.9
6	11650.00	33.7 AV	54.0	-20.3	1.27 H	233	20.8	12.9
7	#17475.00	37.9 PK	68.2	-30.3	1.51 H	215	18.8	19.1
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	#5634.30	51.1 PK	68.2	-17.1	2.37 V	279	48.7	2.4
2	*5825.00	111.7 PK			2.37 V	279	108.7	3.0
3	*5825.00	101.6 AV			2.37 V	279	98.6	3.0
4	#5942.80	52.7 PK	68.2	-15.5	2.37 V	279	49.6	3.1
5	11650.00	45.4 PK	74.0	-28.6	1.16 V	219	32.5	12.9
6	11650.00	39.5 AV	54.0	-14.5	1.16 V	219	26.6	12.9
7	#17475.00	41.9 PK	68.2	-26.3	1.52 V	235	22.8	19.1

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 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	53.3 PK	74.0	-20.7	1.00 H	320	50.6	2.7
2	5150.00	45.3 AV	54.0	-8.7	1.00 H	320	42.6	2.7
3	*5180.00	105.5 PK			1.03 H	358	102.9	2.6
4	*5180.00	95.7 AV			1.03 H	358	93.1	2.6
5	#10360.00	40.5 PK	68.2	-27.7	1.33 H	228	28.2	12.3
6	15540.00	37.8 PK	74.0	-36.2	1.53 H	194	25.9	11.9
7	15540.00	30.4 AV	54.0	-23.6	1.53 H	194	18.5	11.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.1 PK	74.0	-10.9	2.34 V	319	60.4	2.7
2	5150.00	53.5 AV	54.0	-0.5	2.34 V	319	50.8	2.7
3	*5180.00	113.8 PK			2.34 V	319	111.2	2.6
4	*5180.00	103.9 AV			2.34 V	319	101.3	2.6
5	#10360.00	45.5 PK	68.2	-22.7	1.08 V	198	33.2	12.3
6	15540.00	41.5 PK	74.0	-32.5	1.43 V	223	29.6	11.9
7	15540.00	36.7 AV	54.0	-17.3	1.43 V	223	24.8	11.9

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	53.1 PK	74.0	-20.9	1.05 H	312	50.4	2.7
2	5150.00	44.8 AV	54.0	-9.2	1.05 H	312	42.1	2.7
3	*5200.00	105.5 PK			1.08 H	359	102.9	2.6
4	*5200.00	95.7 AV			1.08 H	359	93.1	2.6
5	#10400.00	40.4 PK	68.2	-27.8	1.29 H	223	28.0	12.4
6	15600.00	38.6 PK	74.0	-35.4	1.49 H	205	26.8	11.8
7	15600.00	31.3 AV	54.0	-22.7	1.49 H	205	19.5	11.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.1 PK	74.0	-13.9	1.00 V	328	57.4	2.7
2	5150.00	47.5 AV	54.0	-6.5	1.00 V	328	44.8	2.7
3	*5200.00	114.8 PK			1.00 V	328	112.2	2.6
4	*5200.00	104.9 AV			1.00 V	328	102.3	2.6
5	#10400.00	46.0 PK	68.2	-22.2	1.14 V	224	33.6	12.4
6	15600.00	41.2 PK	74.0	-32.8	1.51 V	241	29.4	11.8
7	15600.00	36.6 AV	54.0	-17.4	1.51 V	241	24.8	11.8

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	105.4 PK			1.08 H	340	103.0	2.4
2	*5240.00	96.1 AV			1.08 H	340	93.7	2.4
3	5350.00	52.6 PK	74.0	-21.4	1.02 H	325	50.3	2.3
4	5350.00	44.8 AV	54.0	-9.2	1.02 H	325	42.5	2.3
5	#10480.00	40.0 PK	68.2	-28.2	1.29 H	224	27.6	12.4
6	15720.00	38.5 PK	74.0	-35.5	1.55 H	209	26.2	12.3
7	15720.00	31.0 AV	54.0	-23.0	1.55 H	209	18.7	12.3
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	*5240.00	115.0 PK			1.00 V	329	112.6	2.4
2	*5240.00	105.0 AV			1.00 V	329	102.6	2.4
3	5350.00	52.4 PK	74.0	-21.6	1.00 V	329	50.1	2.3
4	5350.00	39.7 AV	54.0	-14.3	1.00 V	329	37.4	2.3
5	#10480.00	45.3 PK	68.2	-22.9	1.10 V	218	32.9	12.4
6	15720.00	41.8 PK	74.0	-32.2	1.45 V	230	29.5	12.3
7	15720.00	36.9 AV	54.0	-17.1	1.45 V	230	24.6	12.3

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	53.0 PK	74.0	-21.0	1.03 H	335	50.3	2.7
2	5150.00	45.0 AV	54.0	-9.0	1.03 H	335	42.3	2.7
3	*5260.00	105.6 PK			1.06 H	337	103.3	2.3
4	*5260.00	95.9 AV			1.06 H	337	93.6	2.3
5	#10520.00	40.2 PK	68.2	-28.0	1.29 H	236	27.9	12.3
6	15780.00	37.4 PK	74.0	-36.6	1.58 H	203	25.4	12.0
7	15780.00	30.4 AV	54.0	-23.6	1.58 H	203	18.4	12.0
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	5150.00	52.3 PK	74.0	-21.7	2.06 V	329	49.6	2.7
2	5150.00	39.8 AV	54.0	-14.2	2.06 V	329	37.1	2.7
3	*5260.00	115.8 PK			2.06 V	329	113.5	2.3
4	*5260.00	105.4 AV			2.06 V	329	103.1	2.3
5	#10520.00	45.1 PK	68.2	-23.1	1.11 V	223	32.8	12.3
6	15780.00	41.6 PK	74.0	-32.4	1.47 V	250	29.6	12.0
7	15780.00	36.9 AV	54.0	-17.1	1.47 V	250	24.9	12.0

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 73% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	108.4 PK			1.55 H	208	106.1	2.3
2	*5300.00	99.0 AV			1.55 H	208	96.7	2.3
3	10600.00	39.3 PK	74.0	-34.7	1.27 H	235	26.9	12.4
4	10600.00	33.1 AV	54.0	-20.9	1.27 H	235	20.7	12.4
5	15900.00	37.5 PK	74.0	-36.5	1.56 H	214	25.3	12.2
6	15900.00	30.6 AV	54.0	-23.4	1.56 H	214	18.4	12.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	116.4 PK			2.45 V	321	114.1	2.3
2	*5300.00	105.8 AV			2.45 V	321	103.5	2.3
3	10600.00	45.7 PK	74.0	-28.3	1.09 V	203	33.3	12.4
4	10600.00	39.7 AV	54.0	-14.3	1.09 V	203	27.3	12.4
5	15900.00	41.6 PK	74.0	-32.4	1.46 V	239	29.4	12.2
6	15900.00	36.8 AV	54.0	-17.2	1.46 V	239	24.6	12.2

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	102.4 PK			1.11 H	32	100.1	2.3
2	*5320.00	90.3 AV			1.11 H	32	88.0	2.3
3	5350.00	62.7 PK	74.0	-11.3	1.11 H	32	60.4	2.3
4	5350.00	50.3 AV	54.0	-3.7	1.11 H	32	48.0	2.3
5	10640.00	40.3 PK	74.0	-33.7	1.30 H	226	28.0	12.3
6	10640.00	33.8 AV	54.0	-20.2	1.30 H	226	21.5	12.3
7	15960.00	38.0 PK	74.0	-36.0	1.46 H	197	26.3	11.7
8	15960.00	30.9 AV	54.0	-23.1	1.46 H	197	19.2	11.7
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	*5320.00	112.2 PK			2.38 V	326	109.9	2.3
2	*5320.00	102.7 AV			2.38 V	326	100.4	2.3
3	5350.00	66.9 PK	74.0	-7.1	2.38 V	326	64.6	2.3
4	5350.00	53.6 AV	54.0	-0.4	2.38 V	326	51.3	2.3
5	10640.00	45.8 PK	74.0	-28.2	1.15 V	211	33.5	12.3
6	10640.00	39.7 AV	54.0	-14.3	1.15 V	211	27.4	12.3
7	15960.00	41.2 PK	74.0	-32.8	1.52 V	225	29.5	11.7
8	15960.00	36.7 AV	54.0	-17.3	1.52 V	225	25.0	11.7

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.7 PK	74.0	-23.3	1.14 H	34	48.3	2.4
2	5460.00	44.3 AV	54.0	-9.7	1.14 H	34	41.9	2.4
3	#5470.00	64.1 PK	68.2	-4.1	1.14 H	34	61.7	2.4
4	*5500.00	103.7 PK			1.14 H	34	101.2	2.5
5	*5500.00	91.0 AV			1.14 H	34	88.5	2.5
6	11000.00	40.3 PK	74.0	-33.7	1.31 H	217	27.4	12.9
7	11000.00	33.6 AV	54.0	-20.4	1.31 H	217	20.7	12.9
8	#16500.00	38.0 PK	68.2	-30.2	1.56 H	189	23.5	14.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.3 PK	74.0	-14.7	2.65 V	329	56.9	2.4
2	5460.00	48.0 AV	54.0	-6.0	2.65 V	329	45.6	2.4
3	#5470.00	67.5 PK	68.2	-0.7	2.65 V	329	65.1	2.4
4	*5500.00	113.8 PK			2.65 V	329	111.3	2.5
5	*5500.00	103.5 AV			2.65 V	329	101.0	2.5
6	11000.00	45.6 PK	74.0	-28.4	1.16 V	222	32.7	12.9
7	11000.00	39.8 AV	54.0	-14.2	1.16 V	222	26.9	12.9
8	#16500.00	41.3 PK	68.2	-26.9	1.52 V	244	26.8	14.5

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 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=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	104.8 PK			2.23 H	322	102.4	2.4
2	*5580.00	95.6 AV			2.23 H	322	93.2	2.4
3	11160.00	40.3 PK	74.0	-33.7	1.33 H	211	27.3	13.0
4	11160.00	33.5 AV	54.0	-20.5	1.33 H	211	20.5	13.0
5	#16740.00	37.9 PK	68.2	-30.3	1.52 H	210	22.3	15.6
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	*5580.00	114.8 PK			2.64 V	336	112.4	2.4
2	*5580.00	103.9 AV			2.64 V	336	101.5	2.4
3	11160.00	45.9 PK	74.0	-28.1	1.16 V	201	32.9	13.0
4	11160.00	40.1 AV	54.0	-13.9	1.16 V	201	27.1	13.0
5	#16740.00	41.5 PK	68.2	-26.7	1.42 V	239	25.9	15.6

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 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	101.5 PK			2.51 H	66	99.0	2.5
2	*5700.00	93.7 AV			2.51 H	66	91.2	2.5
3	#5725.00	60.0 PK	68.2	-8.2	2.51 H	66	57.4	2.6
4	11400.00	39.8 PK	74.0	-34.2	1.35 H	235	26.8	13.0
5	11400.00	33.0 AV	54.0	-21.0	1.35 H	235	20.0	13.0
6	#17100.00	38.0 PK	68.2	-30.2	1.48 H	199	20.9	17.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	111.7 PK			2.70 V	330	109.2	2.5
2	*5700.00	101.2 AV			2.70 V	330	98.7	2.5
3	#5725.00	67.5 PK	68.2	-0.7	2.70 V	330	64.9	2.6
4	11400.00	46.1 PK	74.0	-27.9	1.14 V	225	33.1	13.0
5	11400.00	40.2 AV	54.0	-13.8	1.14 V	225	27.2	13.0
6	#17100.00	41.3 PK	68.2	-26.9	1.51 V	245	24.2	17.1

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.00	50.0 PK	68.2	-18.2	2.28 H	324	47.6	2.4
2	*5745.00	103.8 PK			2.28 H	324	101.1	2.7
3	*5745.00	96.3 AV			2.28 H	324	93.6	2.7
4	#5960.70	49.3 PK	68.2	-18.9	2.28 H	324	46.3	3.0
5	11490.00	39.5 PK	74.0	-34.5	1.30 H	239	26.4	13.1
6	11490.00	33.2 AV	54.0	-20.8	1.30 H	239	20.1	13.1
7	#17235.00	37.6 PK	68.2	-30.6	1.57 H	210	20.3	17.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.70	51.3 PK	68.2	-16.9	2.99 V	338	48.9	2.4
2	*5745.00	112.9 PK			2.99 V	338	110.2	2.7
3	*5745.00	102.3 AV			2.99 V	338	99.6	2.7
4	#5958.50	51.6 PK	68.2	-16.6	2.99 V	338	48.6	3.0
5	11490.00	45.4 PK	74.0	-28.6	1.08 V	204	32.3	13.1
6	11490.00	39.7 AV	54.0	-14.3	1.08 V	204	26.6	13.1
7	#17235.00	42.2 PK	68.2	-26.0	1.48 V	248	24.9	17.3

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5633.70	50.4 PK	68.2	-17.8	2.14 H	68	48.0	2.4
2	*5785.00	104.6 PK			2.14 H	68	101.8	2.8
3	*5785.00	95.8 AV			2.14 H	68	93.0	2.8
4	#5963.00	51.7 PK	68.2	-16.5	2.14 H	68	48.8	2.9
5	11570.00	39.7 PK	74.0	-34.3	1.32 H	234	26.5	13.2
6	11570.00	33.5 AV	54.0	-20.5	1.32 H	234	20.3	13.2
7	#17355.00	38.2 PK	68.2	-30.0	1.46 H	211	20.1	18.1
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	#5639.20	51.5 PK	68.2	-16.7	3.26 V	325	49.1	2.4
2	*5785.00	113.4 PK			3.26 V	325	110.6	2.8
3	*5785.00	103.0 AV			3.26 V	325	100.2	2.8
4	#5962.90	52.4 PK	68.2	-15.8	3.26 V	325	49.5	2.9
5	11570.00	45.5 PK	74.0	-28.5	1.10 V	218	32.3	13.2
6	11570.00	39.4 AV	54.0	-14.6	1.10 V	218	26.2	13.2
7	#17355.00	42.2 PK	68.2	-26.0	1.49 V	223	24.1	18.1

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 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5620.70	50.8 PK	68.2	-17.4	2.22 H	310	48.3	2.5
2	*5825.00	104.9 PK			2.22 H	310	101.9	3.0
3	*5825.00	96.0 AV			2.22 H	310	93.0	3.0
4	#5976.00	51.9 PK	68.2	-16.3	2.22 H	310	49.0	2.9
5	11650.00	40.2 PK	74.0	-33.8	1.29 H	237	27.3	12.9
6	11650.00	33.5 AV	54.0	-20.5	1.29 H	237	20.6	12.9
7	#17475.00	38.1 PK	68.2	-30.1	1.51 H	201	19.0	19.1
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	#5621.60	51.8 PK	68.2	-16.4	2.71 V	300	49.3	2.5
2	*5825.00	113.9 PK			2.71 V	300	110.9	3.0
3	*5825.00	102.9 AV			2.71 V	300	99.9	3.0
4	#5974.80	52.8 PK	68.2	-15.4	2.71 V	300	49.9	2.9
5	11650.00	45.6 PK	74.0	-28.4	1.14 V	202	32.7	12.9
6	11650.00	39.8 AV	54.0	-14.2	1.14 V	202	26.9	12.9
7	#17475.00	41.3 PK	68.2	-26.9	1.48 V	250	22.2	19.1

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 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.3 PK	74.0	-14.7	2.51 H	147	56.6	2.7
2	5150.00	47.3 AV	54.0	-6.7	2.51 H	147	44.6	2.7
3	*5190.00	95.4 PK			2.51 H	147	92.8	2.6
4	*5190.00	89.1 AV			2.51 H	147	86.5	2.6
5	#10380.00	39.5 PK	68.2	-28.7	1.34 H	228	27.2	12.3
6	15570.00	37.8 PK	74.0	-36.2	1.56 H	186	26.0	11.8
7	15570.00	30.5 AV	54.0	-23.5	1.56 H	186	18.7	11.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.4 PK	74.0	-6.6	2.30 V	321	64.7	2.7
2	5150.00	53.9 AV	54.0	-0.1	2.30 V	321	51.2	2.7
3	*5190.00	107.4 PK			2.30 V	321	104.8	2.6
4	*5190.00	97.0 AV			2.30 V	321	94.4	2.6
5	#10380.00	46.1 PK	68.2	-22.1	1.12 V	215	33.8	12.3
6	15570.00	41.3 PK	74.0	-32.7	1.44 V	251	29.5	11.8
7	15570.00	36.8 AV	54.0	-17.2	1.44 V	251	25.0	11.8

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.3 PK	74.0	-8.7	2.22 H	143	62.6	2.7
2	5150.00	49.5 AV	54.0	-4.5	2.22 H	143	46.8	2.7
3	*5230.00	103.8 PK			2.22 H	143	101.4	2.4
4	*5230.00	95.8 AV			2.22 H	143	93.4	2.4
5	5350.00	58.9 PK	74.0	-15.1	2.22 H	143	56.6	2.3
6	5350.00	40.3 AV	54.0	-13.7	2.22 H	143	38.0	2.3
7	#10460.00	39.2 PK	68.2	-29.0	1.32 H	211	26.8	12.4
8	15690.00	37.6 PK	74.0	-36.4	1.53 H	201	25.2	12.4
9	15690.00	30.5 AV	54.0	-23.5	1.53 H	201	18.1	12.4
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	5150.00	70.0 PK	74.0	-4.0	2.25 V	322	67.3	2.7
2	5150.00	53.7 AV	54.0	-0.3	2.25 V	322	51.0	2.7
3	*5230.00	113.0 PK			2.25 V	322	110.6	2.4
4	*5230.00	103.0 AV			2.25 V	322	100.6	2.4
5	5350.00	63.2 PK	74.0	-10.8	2.25 V	322	60.9	2.3
6	5350.00	45.6 AV	54.0	-8.4	2.25 V	322	43.3	2.3
7	#10460.00	45.2 PK	68.2	-23.0	1.10 V	203	32.8	12.4
8	15690.00	42.0 PK	74.0	-32.0	1.52 V	241	29.6	12.4
9	15690.00	37.2 AV	54.0	-16.8	1.52 V	241	24.8	12.4

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.2 PK	74.0	-8.8	2.16 H	158	62.5	2.7
2	5150.00	49.4 AV	54.0	-4.6	2.16 H	158	46.7	2.7
3	*5270.00	103.9 PK			2.16 H	158	101.6	2.3
4	*5270.00	96.1 AV			2.16 H	158	93.8	2.3
5	5350.00	59.1 PK	74.0	-14.9	2.16 H	158	56.8	2.3
6	5350.00	40.4 AV	54.0	-13.6	2.16 H	158	38.1	2.3
7	#10540.00	39.6 PK	68.2	-28.6	1.37 H	223	27.3	12.3
8	15810.00	38.2 PK	74.0	-35.8	1.56 H	200	26.3	11.9
9	15810.00	30.9 AV	54.0	-23.1	1.56 H	200	19.0	11.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.4 PK	74.0	-21.6	2.36 V	317	49.7	2.7
2	5150.00	41.3 AV	54.0	-12.7	2.36 V	317	38.6	2.7
3	*5270.00	122.9 PK			2.36 V	317	120.6	2.3
4	*5270.00	102.3 AV			2.36 V	317	100.0	2.3
5	5350.00	68.2 PK	74.0	-5.8	2.36 V	317	65.9	2.3
6	5350.00	53.4 AV	54.0	-0.6	2.36 V	317	51.1	2.3
7	#10540.00	45.8 PK	68.2	-22.4	1.14 V	222	33.5	12.3
8	15810.00	41.8 PK	74.0	-32.2	1.50 V	246	29.9	11.9
9	15810.00	36.9 AV	54.0	-17.1	1.50 V	246	25.0	11.9

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 73% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	98.5 PK			1.66 H	207	96.2	2.3
2	*5310.00	88.6 AV			1.66 H	207	86.3	2.3
3	5350.00	61.2 PK	74.0	-12.8	1.66 H	207	58.9	2.3
4	5350.00	45.1 AV	54.0	-8.9	1.66 H	207	42.8	2.3
5	10620.00	39.2 PK	74.0	-34.8	1.27 H	226	26.9	12.3
6	10620.00	33.0 AV	54.0	-21.0	1.27 H	226	20.7	12.3
7	15930.00	38.1 PK	74.0	-35.9	1.50 H	194	26.1	12.0
8	15930.00	30.8 AV	54.0	-23.2	1.50 H	194	18.8	12.0
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	*5310.00	105.7 PK			2.44 V	322	103.4	2.3
2	*5310.00	94.9 AV			2.44 V	322	92.6	2.3
3	5350.00	67.0 PK	74.0	-7.0	2.44 V	322	64.7	2.3
4	5350.00	53.9 AV	54.0	-0.1	2.44 V	322	51.6	2.3
5	10620.00	45.2 PK	74.0	-28.8	1.12 V	204	32.9	12.3
6	10620.00	39.5 AV	54.0	-14.5	1.12 V	204	27.2	12.3
7	15930.00	42.2 PK	74.0	-31.8	1.45 V	249	30.2	12.0
8	15930.00	37.1 AV	54.0	-16.9	1.45 V	249	25.1	12.0

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 73% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	55.2 PK	74.0	-18.8	1.11 H	23	52.8	2.4
2	5460.00	42.8 AV	54.0	-11.2	1.11 H	23	40.4	2.4
3	#5470.00	60.2 PK	68.2	-8.0	1.11 H	23	57.8	2.4
4	*5510.00	99.6 PK			1.11 H	23	97.1	2.5
5	*5510.00	89.7 AV			1.11 H	23	87.2	2.5
6	11020.00	39.6 PK	74.0	-34.4	1.36 H	211	26.7	12.9
7	11020.00	33.5 AV	54.0	-20.5	1.36 H	211	20.6	12.9
8	#16530.00	38.1 PK	68.2	-30.1	1.50 H	199	23.2	14.9
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	60.6 PK	74.0	-13.4	2.59 V	325	58.2	2.4
2	5460.00	48.3 AV	54.0	-5.7	2.59 V	325	45.9	2.4
3	#5470.00	67.8 PK	68.2	-0.4	2.59 V	325	65.4	2.4
4	*5510.00	107.1 PK			2.59 V	325	104.6	2.5
5	*5510.00	96.3 AV			2.59 V	325	93.8	2.5
6	11020.00	45.8 PK	74.0	-28.2	1.13 V	207	32.9	12.9
7	11020.00	40.1 AV	54.0	-13.9	1.13 V	207	27.2	12.9
8	#16530.00	41.7 PK	68.2	-26.5	1.47 V	233	26.8	14.9

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 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=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	102.9 PK			2.55 H	295	100.4	2.5
2	*5550.00	95.4 AV			2.55 H	295	92.9	2.5
3	11100.00	38.5 PK	74.0	-35.5	1.34 H	198	25.5	13.0
4	11100.00	32.5 AV	54.0	-21.5	1.34 H	198	19.5	13.0
5	#16650.00	37.6 PK	68.2	-30.6	1.57 H	205	21.8	15.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	113.2 PK			2.73 V	324	110.7	2.5
2	*5550.00	102.9 AV			2.73 V	324	100.4	2.5
3	11100.00	46.0 PK	74.0	-28.0	1.05 V	210	33.0	13.0
4	11100.00	40.0 AV	54.0	-14.0	1.05 V	210	27.0	13.0
5	#16650.00	41.8 PK	68.2	-26.4	1.44 V	227	26.0	15.8

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	100.9 PK			2.51 H	235	98.5	2.4
2	*5670.00	93.1 AV			2.51 H	235	90.7	2.4
3	#5725.00	62.8 PK	68.2	-5.4	2.51 H	235	60.2	2.6
4	11340.00	38.8 PK	74.0	-35.2	1.36 H	206	26.1	12.7
5	11340.00	32.5 AV	54.0	-21.5	1.36 H	206	19.8	12.7
6	#17010.00	37.8 PK	68.2	-30.4	1.52 H	217	21.4	16.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	110.5 PK			2.54 V	339	108.1	2.4
2	*5670.00	100.1 AV			2.54 V	339	97.7	2.4
3	#5725.00	67.9 PK	68.2	-0.3	2.54 V	339	65.3	2.6
4	11340.00	45.7 PK	74.0	-28.3	1.09 V	207	33.0	12.7
5	11340.00	39.5 AV	54.0	-14.5	1.09 V	207	26.8	12.7
6	#17010.00	41.5 PK	68.2	-26.7	1.44 V	222	25.1	16.4

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5640.00	48.3 PK	68.2	-19.9	1.24 H	79	45.9	2.4
2	*5755.00	101.9 PK			1.24 H	79	99.2	2.7
3	*5755.00	94.8 AV			1.24 H	79	92.1	2.7
4	#5950.80	50.0 PK	68.2	-18.2	1.24 H	79	47.0	3.0
5	11510.00	39.0 PK	74.0	-35.0	1.37 H	202	25.8	13.2
6	11510.00	32.9 AV	54.0	-21.1	1.37 H	202	19.7	13.2
7	#17265.00	37.6 PK	68.2	-30.6	1.57 H	203	20.1	17.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.90	51.3 PK	68.2	-16.9	3.49 V	333	48.9	2.4
2	*5755.00	111.3 PK			3.49 V	333	108.6	2.7
3	*5755.00	100.2 AV			3.49 V	333	97.5	2.7
4	#5949.70	52.0 PK	68.2	-16.2	3.49 V	333	49.0	3.0
5	11510.00	46.1 PK	74.0	-27.9	1.05 V	209	32.9	13.2
6	11510.00	40.3 AV	54.0	-13.7	1.05 V	209	27.1	13.2
7	#17265.00	41.6 PK	68.2	-26.6	1.47 V	234	24.1	17.5

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5641.00	49.0 PK	68.2	-19.2	1.19 H	100	46.6	2.4
2	*5795.00	102.8 PK			1.19 H	100	99.8	3.0
3	*5795.00	95.3 AV			1.19 H	100	92.3	3.0
4	#5940.00	51.3 PK	68.2	-16.9	1.19 H	100	48.2	3.1
5	11590.00	39.4 PK	74.0	-34.6	1.28 H	225	26.3	13.1
6	11590.00	33.5 AV	54.0	-20.5	1.28 H	225	20.4	13.1
7	#17385.00	37.9 PK	68.2	-30.3	1.54 H	214	19.5	18.4
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	#5647.80	51.2 PK	68.2	-17.0	3.23 V	325	48.8	2.4
2	*5795.00	112.4 PK			3.23 V	325	109.4	3.0
3	*5795.00	100.8 AV			3.23 V	325	97.8	3.0
4	#5938.20	53.4 PK	68.2	-14.8	3.23 V	325	50.3	3.1
5	11590.00	45.4 PK	74.0	-28.6	1.13 V	202	32.3	13.1
6	11590.00	39.6 AV	54.0	-14.4	1.13 V	202	26.5	13.1
7	#17385.00	41.6 PK	68.2	-26.6	1.47 V	232	23.2	18.4

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 (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.5 PK	74.0	-10.5	1.12 H	102	60.8	2.7
2	5150.00	49.6 AV	54.0	-4.4	1.12 H	102	46.9	2.7
3	*5210.00	95.7 PK			1.12 H	102	93.2	2.5
4	*5210.00	83.5 AV			1.12 H	102	81.0	2.5
5	5350.00	50.0 PK	74.0	-24.0	1.12 H	102	47.7	2.3
6	5350.00	38.1 AV	54.0	-15.9	1.12 H	102	35.8	2.3
7	#10420.00	39.1 PK	68.2	-29.1	1.28 H	206	26.7	12.4
8	15630.00	37.3 PK	74.0	-36.7	1.49 H	214	25.3	12.0
9	15630.00	30.2 AV	54.0	-23.8	1.49 H	214	18.2	12.0
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	5150.00	65.1 PK	74.0	-8.9	2.52 V	324	62.4	2.7
2	5150.00	53.4 AV	54.0	-0.6	2.52 V	324	50.7	2.7
3	*5210.00	102.3 PK			2.52 V	324	99.8	2.5
4	*5210.00	92.3 AV			2.52 V	324	89.8	2.5
5	5350.00	51.6 PK	74.0	-22.4	2.52 V	324	49.3	2.3
6	5350.00	40.5 AV	54.0	-13.5	2.52 V	324	38.2	2.3
7	#10420.00	45.9 PK	68.2	-22.3	1.05 V	200	33.5	12.4
8	15630.00	41.1 PK	74.0	-32.9	1.49 V	232	29.1	12.0
9	15630.00	36.4 AV	54.0	-17.6	1.49 V	232	24.4	12.0

Remarks:

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

RF Mode	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 (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.9 PK	74.0	-11.1	2.54 H	107	60.2	2.7
2	5150.00	49.3 AV	54.0	-4.7	2.54 H	107	46.6	2.7
3	*5290.00	95.5 PK			2.54 H	107	93.2	2.3
4	*5290.00	83.3 AV			2.54 H	107	81.0	2.3
5	5350.00	49.8 PK	74.0	-24.2	2.54 H	107	47.5	2.3
6	5350.00	38.0 AV	54.0	-16.0	2.54 H	107	35.7	2.3
7	#10580.00	39.9 PK	68.2	-28.3	1.32 H	206	27.5	12.4
8	15870.00	38.1 PK	74.0	-35.9	1.53 H	208	26.0	12.1
9	15870.00	30.9 AV	54.0	-23.1	1.53 H	208	18.8	12.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.1 PK	74.0	-21.9	2.50 V	317	49.4	2.7
2	5150.00	40.0 AV	54.0	-14.0	2.50 V	317	37.3	2.7
3	*5290.00	100.0 PK			2.50 V	317	97.7	2.3
4	*5290.00	89.7 AV			2.50 V	317	87.4	2.3
5	5350.00	65.7 PK	74.0	-8.3	2.50 V	317	63.4	2.3
6	5350.00	53.9 AV	54.0	-0.1	2.50 V	317	51.6	2.3
7	#10580.00	45.8 PK	68.2	-22.4	1.17 V	213	33.4	12.4
8	15870.00	41.5 PK	74.0	-32.5	1.51 V	223	29.4	12.1
9	15870.00	36.6 AV	54.0	-17.4	1.51 V	223	24.5	12.1

Remarks:

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

RF Mode	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 (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	65.9 PK	74.0	-8.1	2.77 H	310	63.5	2.4
2	5460.00	48.6 AV	54.0	-5.4	2.77 H	310	46.2	2.4
3	#5470.00	60.0 PK	68.2	-8.2	2.77 H	310	57.6	2.4
4	*5530.00	93.6 PK			2.77 H	310	91.1	2.5
5	*5530.00	80.7 AV			2.77 H	310	78.2	2.5
6	#5725.00	51.0 PK	68.2	-17.2	2.77 H	310	48.4	2.6
7	11060.00	39.0 PK	74.0	-35.0	1.32 H	225	26.0	13.0
8	11060.00	33.1 AV	54.0	-20.9	1.32 H	225	20.1	13.0
9	#16590.00	37.3 PK	68.2	-30.9	1.54 H	214	21.4	15.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	67.6 PK	74.0	-6.4	2.74 V	326	65.2	2.4
2	5460.00	53.4 AV	54.0	-0.6	2.74 V	326	51.0	2.4
3	#5470.00	66.3 PK	68.2	-1.9	2.74 V	326	63.9	2.4
4	*5530.00	102.5 PK			2.74 V	326	100.0	2.5
5	*5530.00	91.8 AV			2.74 V	326	89.3	2.5
6	#5725.00	52.5 PK	68.2	-15.7	2.74 V	326	49.9	2.6
7	11060.00	46.0 PK	74.0	-28.0	1.12 V	210	33.0	13.0
8	11060.00	39.9 AV	54.0	-14.1	1.12 V	210	26.9	13.0
9	#16590.00	42.2 PK	68.2	-26.0	1.49 V	249	26.3	15.9

Remarks:

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

RF Mode	802.11ac (VHT80)	Channel	CH 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 (System)	120 Vac, 60 Hz	Environmental Conditions	24 °C, 73% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	102.1 PK			1.32 H	142	99.7	2.4
2	*5610.00	90.1 AV			1.32 H	142	87.7	2.4
3	11220.00	39.3 PK	74.0	-34.7	1.36 H	208	26.4	12.9
4	11220.00	33.3 AV	54.0	-20.7	1.36 H	208	20.4	12.9
5	#16830.00	37.1 PK	68.2	-31.1	1.58 H	191	21.2	15.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	107.5 PK			2.98 V	329	105.1	2.4
2	*5610.00	96.6 AV			2.98 V	329	94.2	2.4
3	#5725.00	68.0 PK	68.2	-0.2	2.98 V	329	65.4	2.6
4	11220.00	45.3 PK	74.0	-28.7	1.10 V	198	32.4	12.9
5	11220.00	39.3 AV	54.0	-14.7	1.10 V	198	26.4	12.9
6	#16830.00	42.0 PK	68.2	-26.2	1.45 V	227	26.1	15.9

Remarks:

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

RF Mode	802.11ac (VHT80)	Channel	CH 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 (System)	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Roy Mai		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.00	65.3 PK	68.2	-2.9	2.10 H	257	62.9	2.4
2	*5775.00	97.6 PK			2.10 H	257	94.8	2.8
3	*5775.00	91.6 AV			2.10 H	257	88.8	2.8
4	#5950.30	53.9 PK	68.2	-14.3	2.10 H	257	50.9	3.0
5	11550.00	39.2 PK	74.0	-34.8	1.28 H	212	26.1	13.1
6	11550.00	32.9 AV	54.0	-21.1	1.28 H	212	19.8	13.1
7	#17325.00	37.9 PK	68.2	-30.3	1.49 H	204	20.0	17.9
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	#5645.60	67.7 PK	68.2	-0.5	2.75 V	324	65.3	2.4
2	*5775.00	107.9 PK			2.75 V	324	105.1	2.8
3	*5775.00	96.8 AV			2.75 V	324	94.0	2.8
4	#5947.60	55.2 PK	68.2	-13.0	2.75 V	324	52.2	3.0
5	11550.00	45.9 PK	74.0	-28.1	1.07 V	223	32.8	13.1
6	11550.00	40.0 AV	54.0	-14.0	1.07 V	223	26.9	13.1
7	#17325.00	41.9 PK	68.2	-26.3	1.45 V	249	24.0	17.9

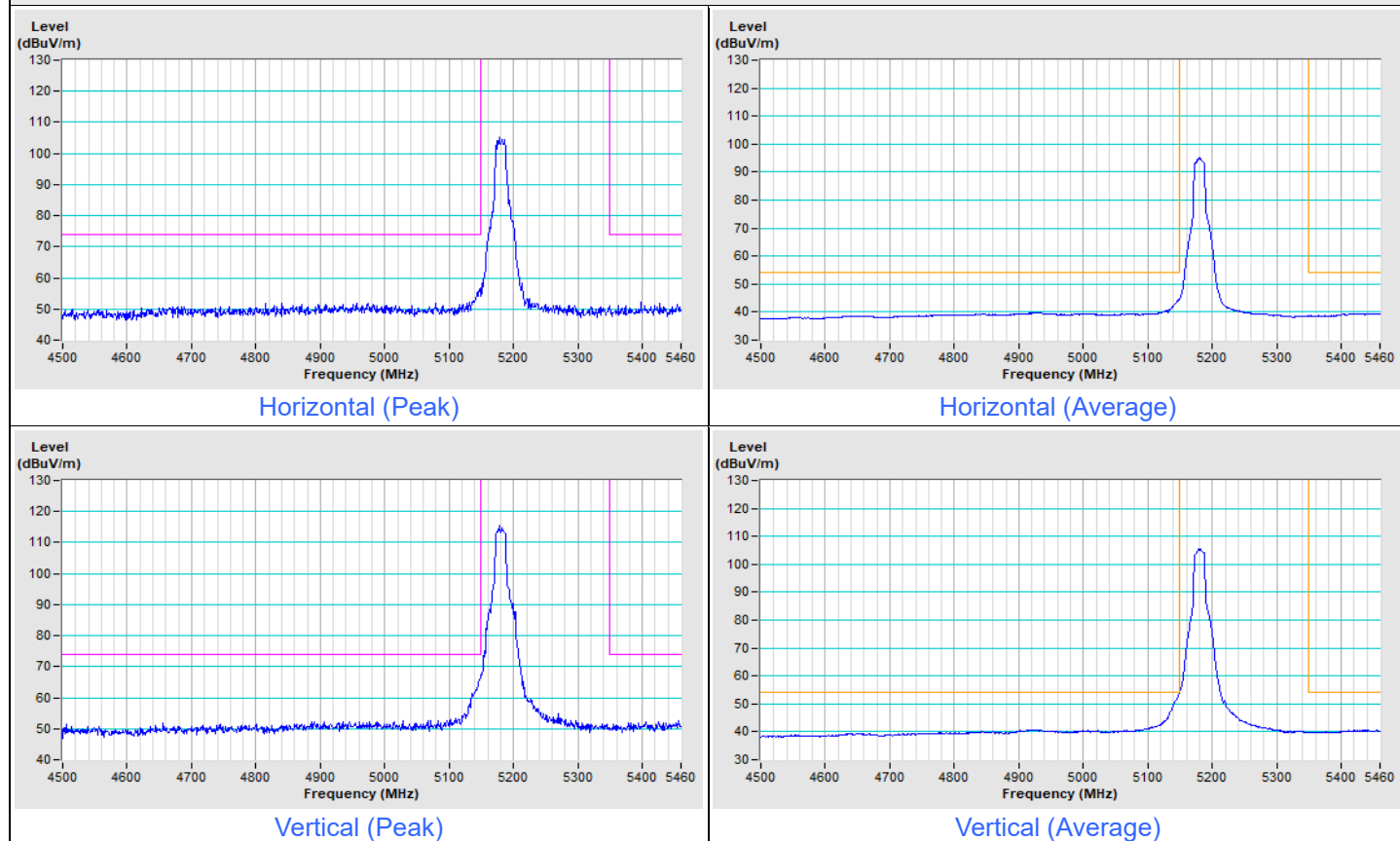
Remarks:

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.

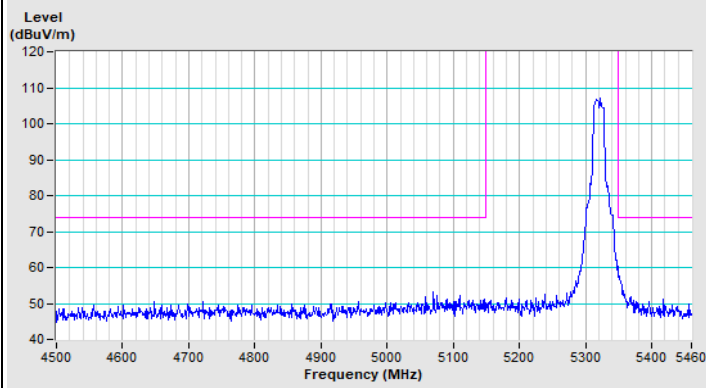
Plot of Band Edge

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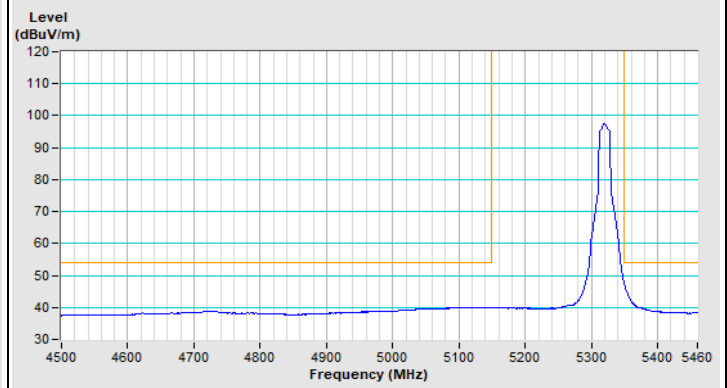
802.11a Channel 36



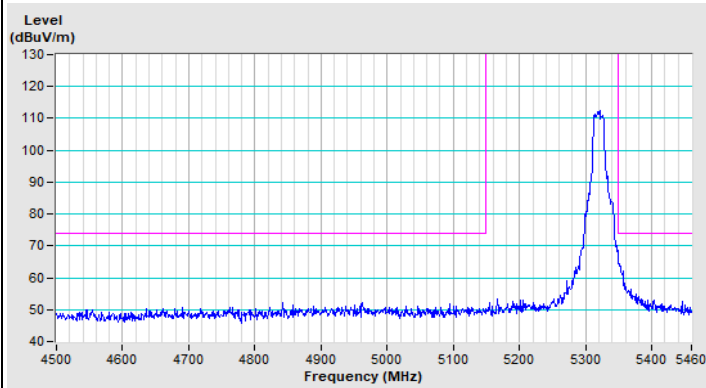
802.11a Channel 64



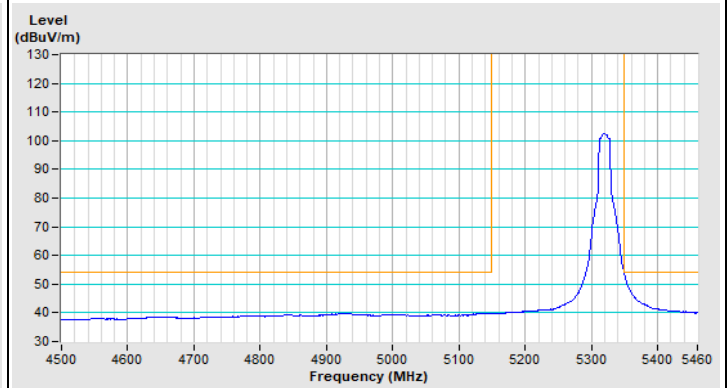
Horizontal (Peak)



Horizontal (Average)



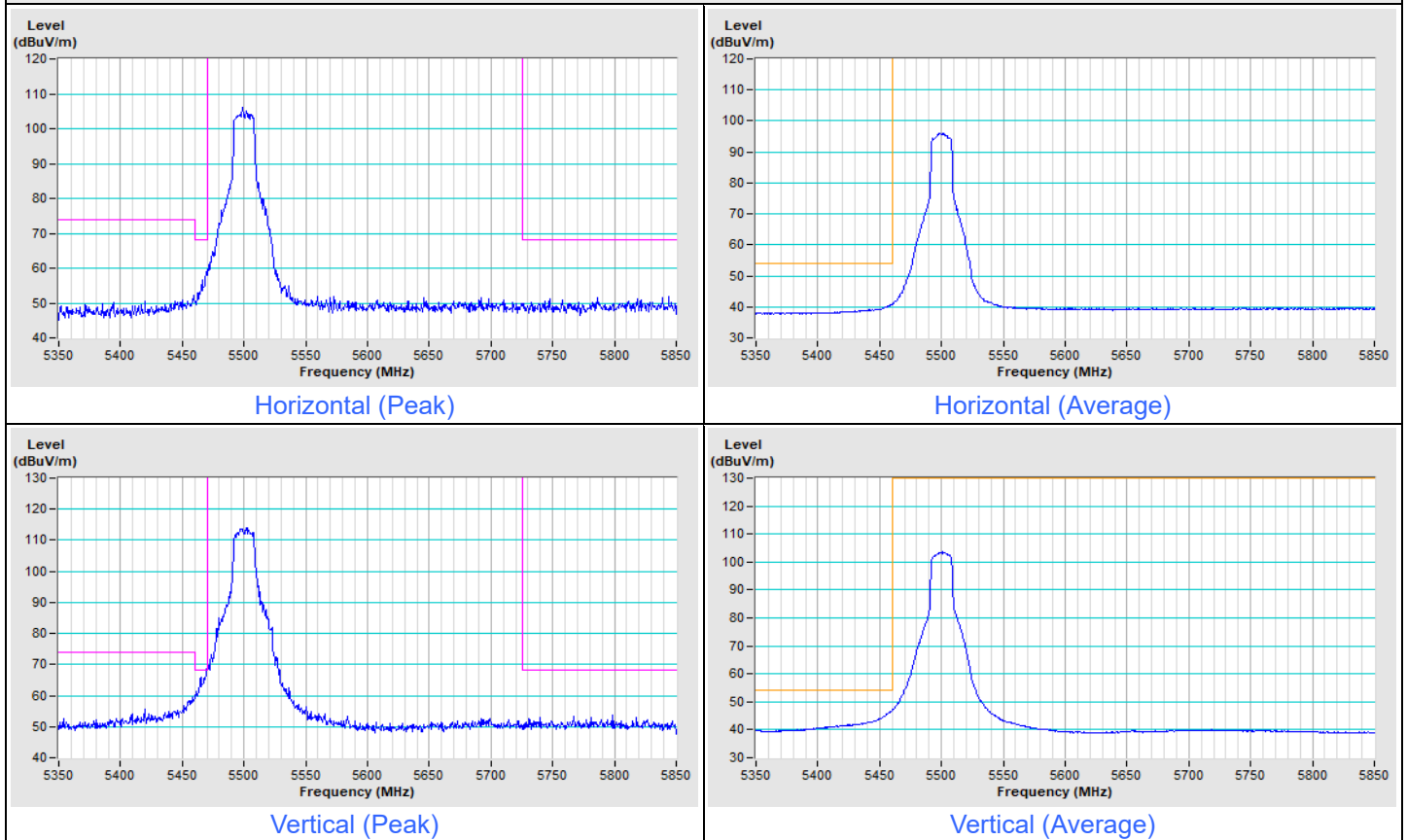
Vertical (Peak)



Vertical (Average)

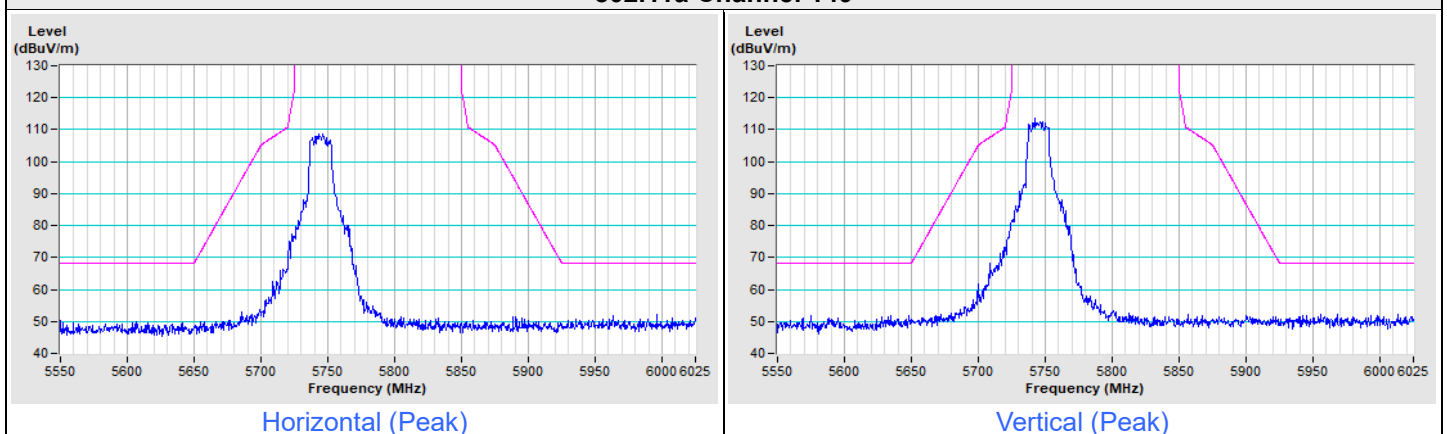
Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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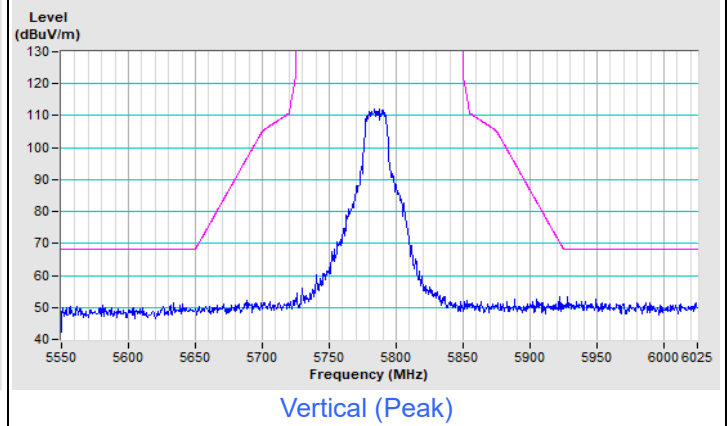
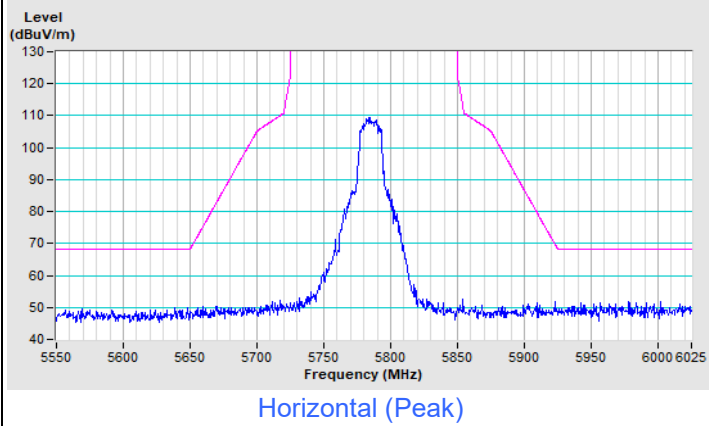
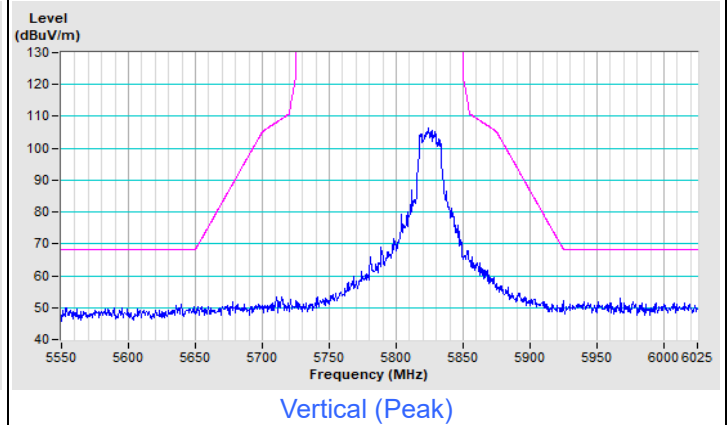
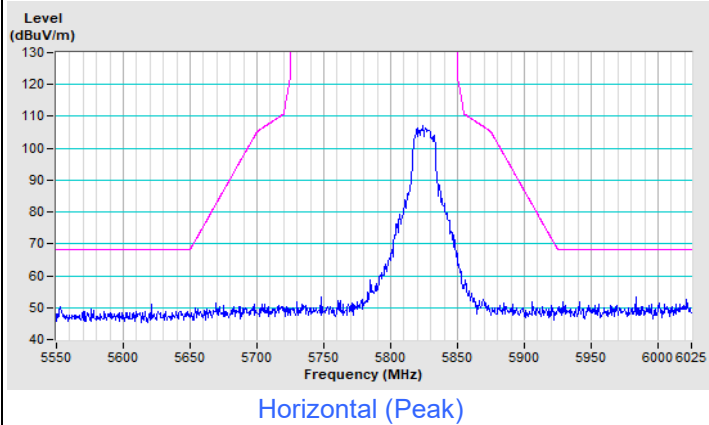
802.11a Channel 100



Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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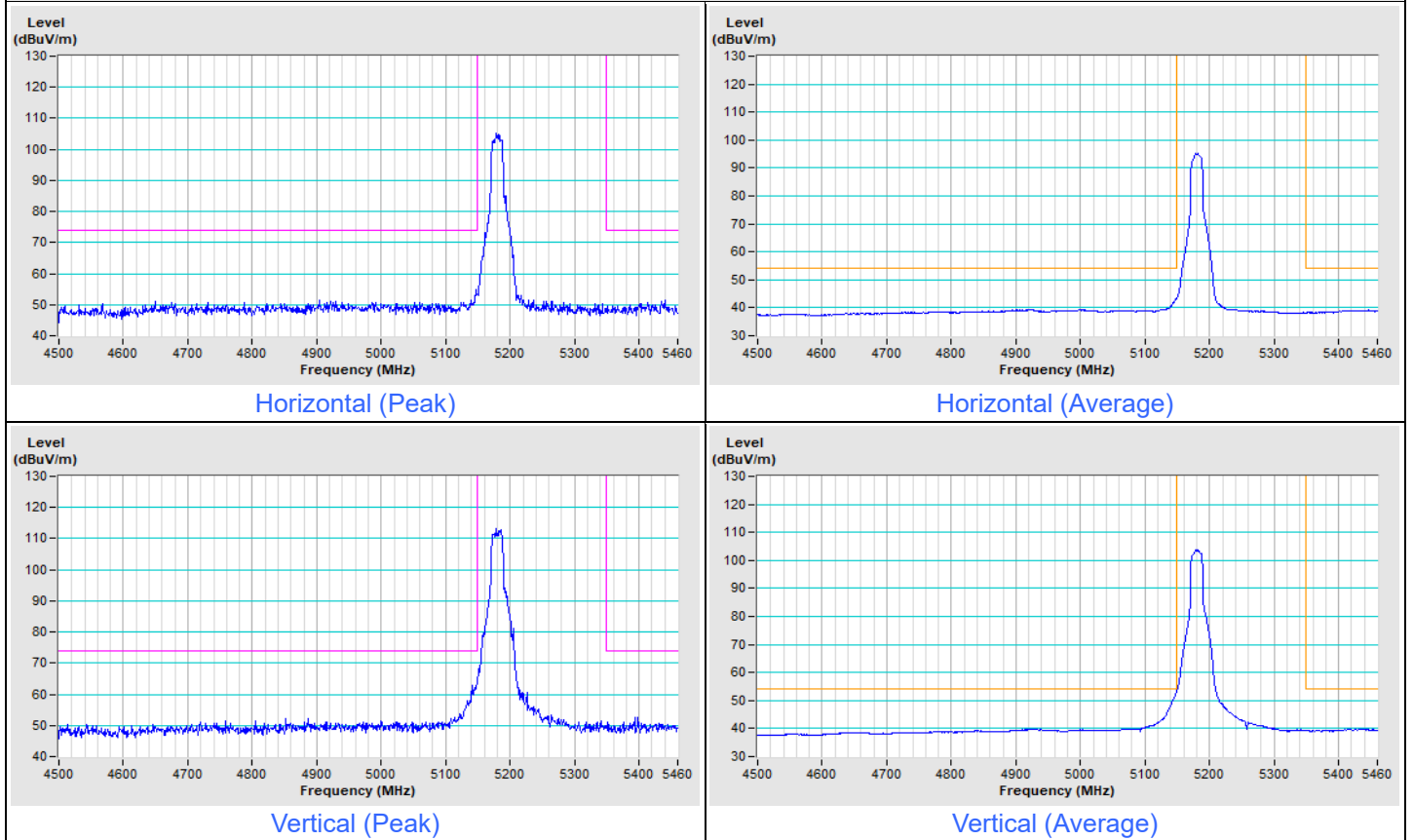
802.11a Channel 149



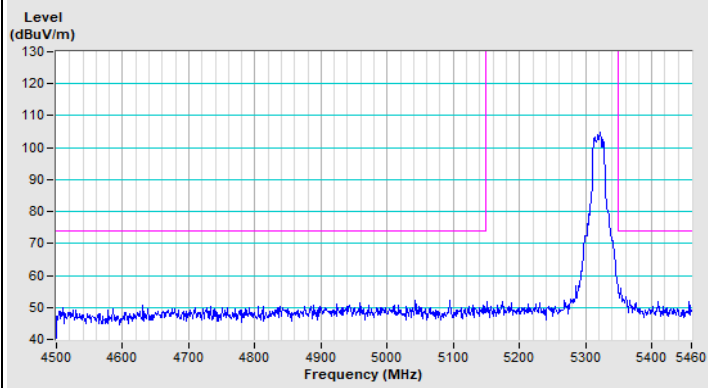
802.11a Channel 157**802.11a Channel 165**

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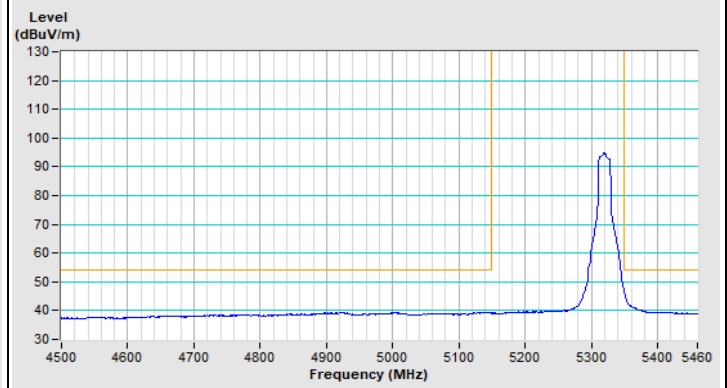
802.11ac (VHT20) Channel 36



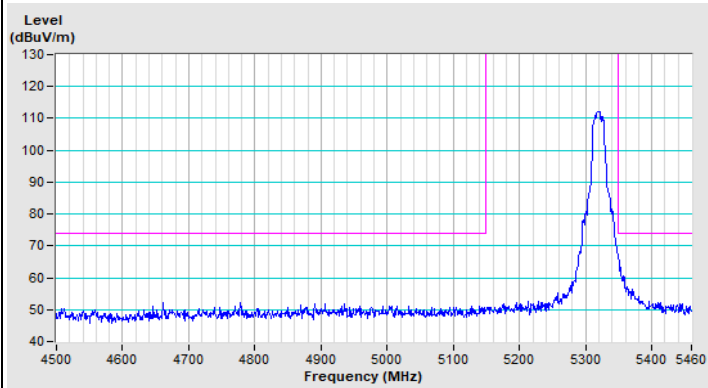
802.11ac (VHT20) Channel 64



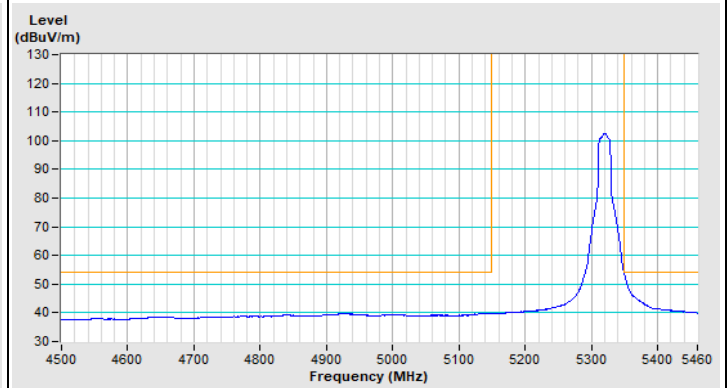
Horizontal (Peak)



Horizontal (Average)



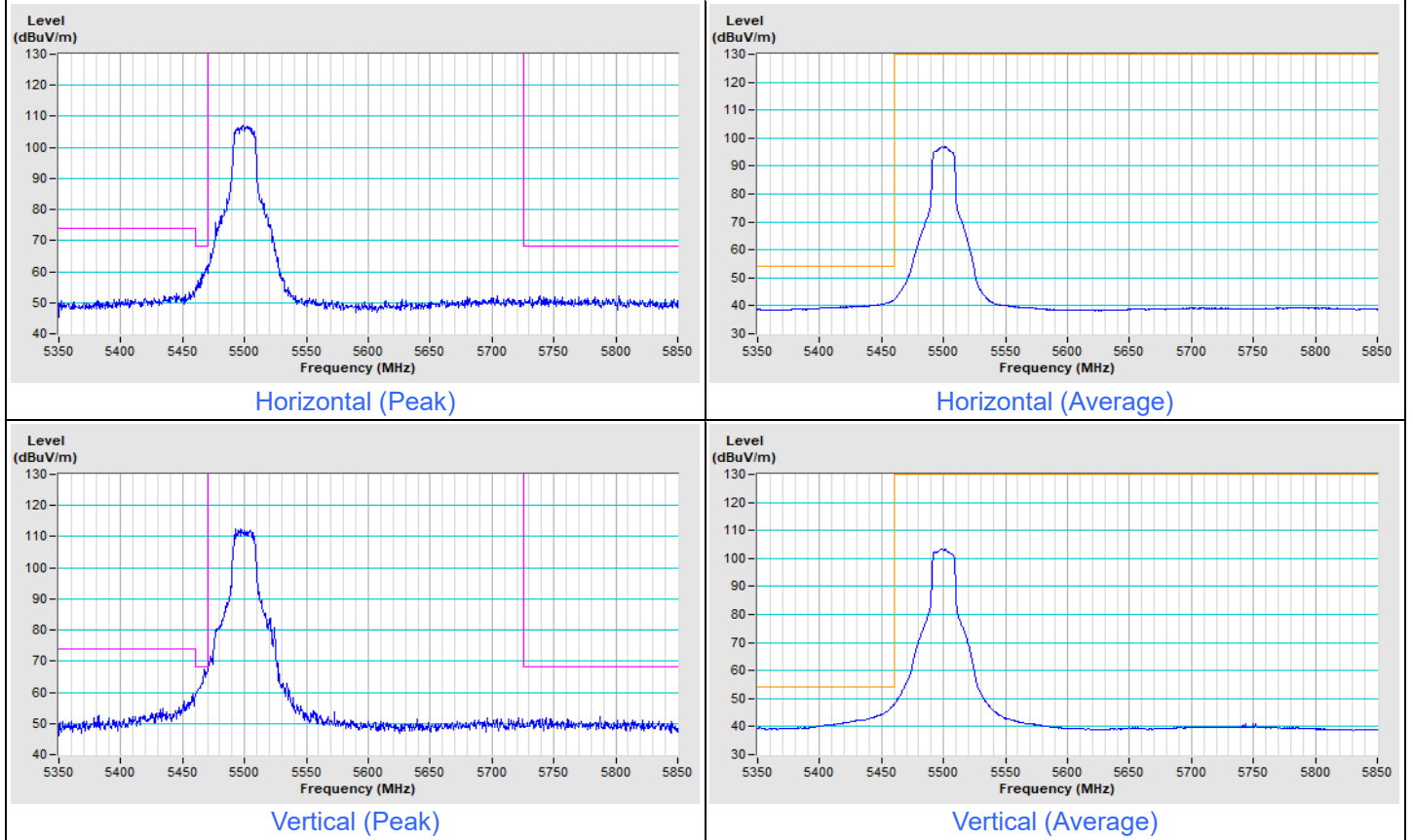
Vertical (Peak)



Vertical (Average)

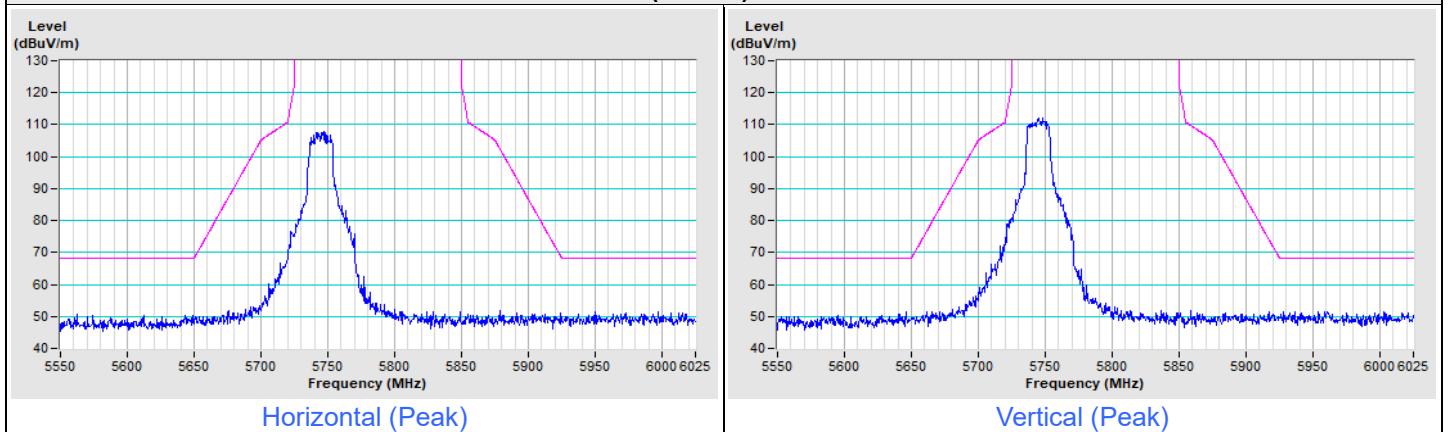
Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ac (VHT20) Channel 100

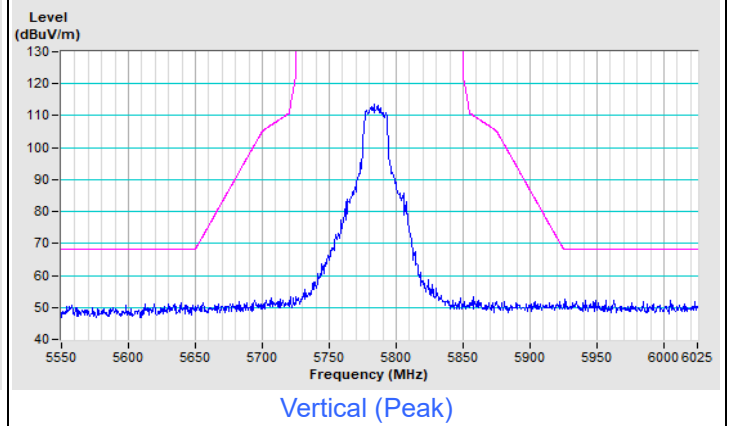
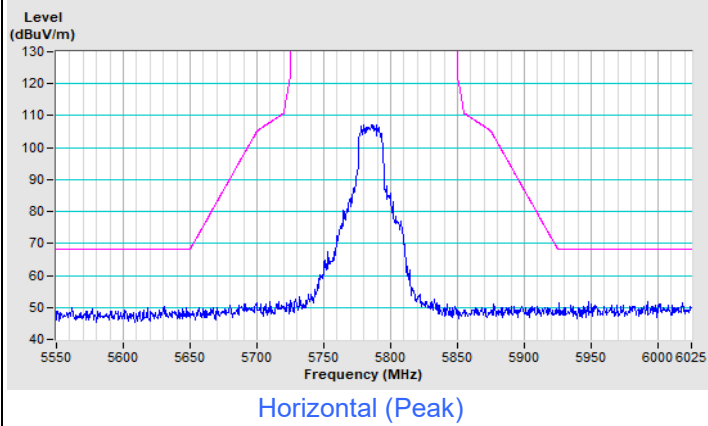


Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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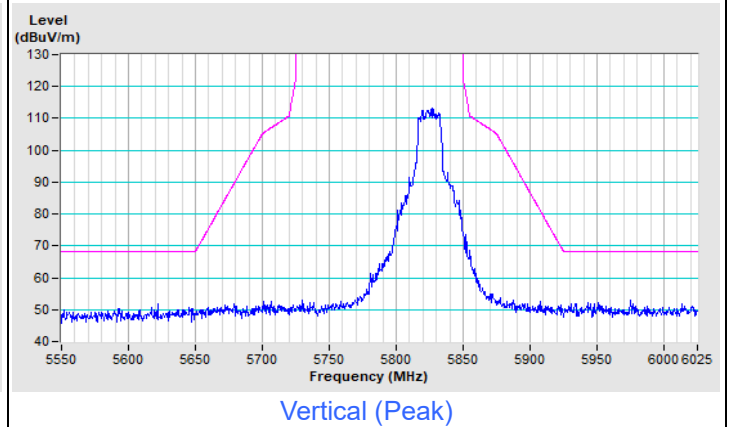
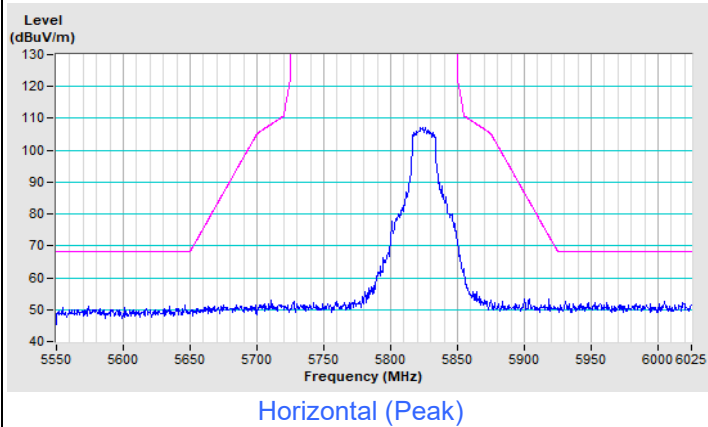
802.11ac (VHT20) Channel 149



802.11ac (VHT20) Channel 157

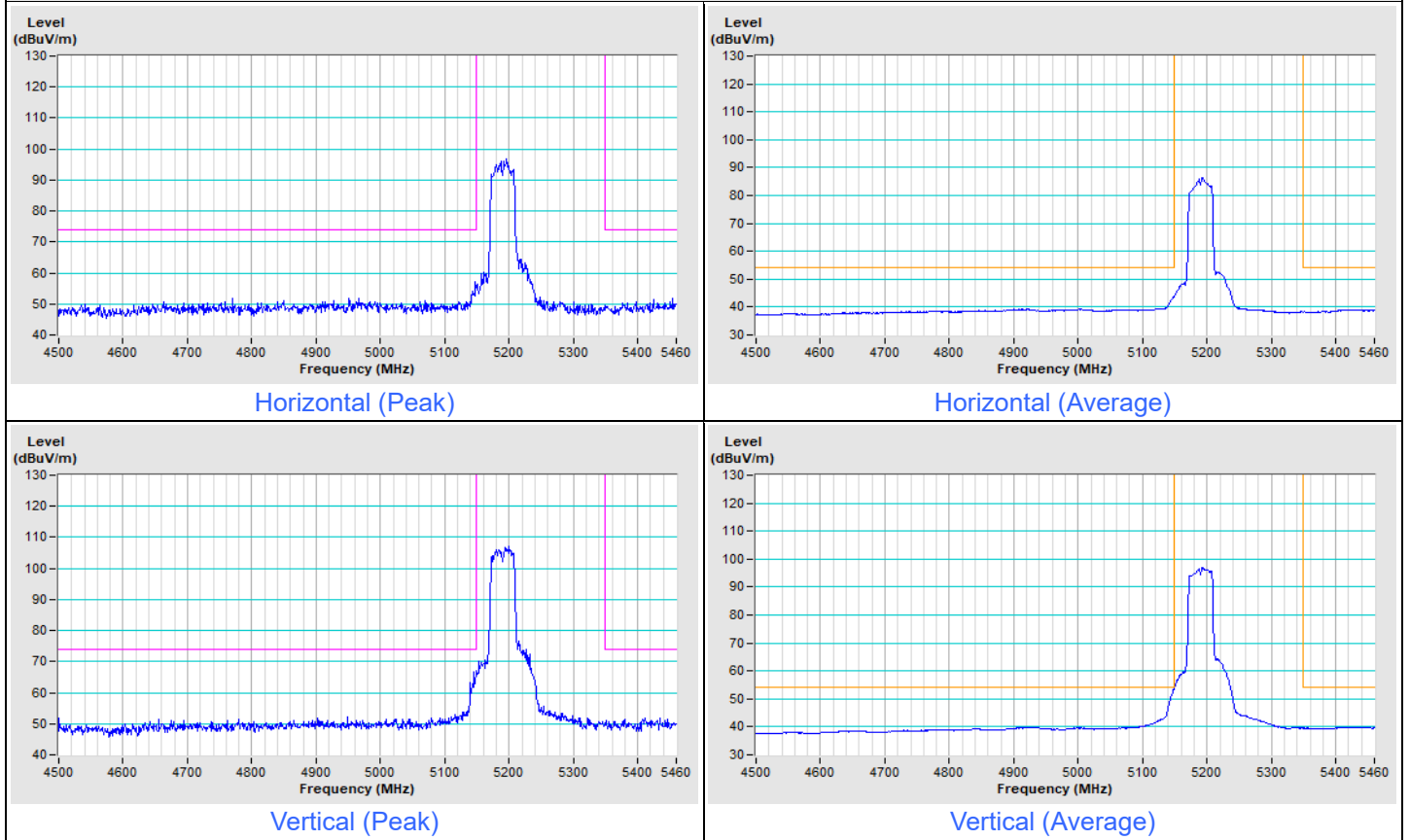


802.11ac (VHT20) Channel 165

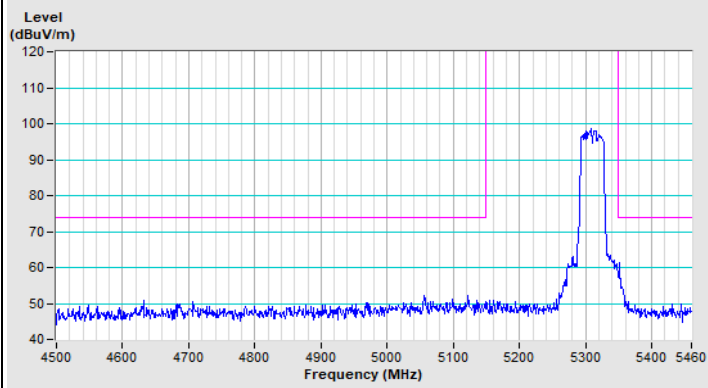


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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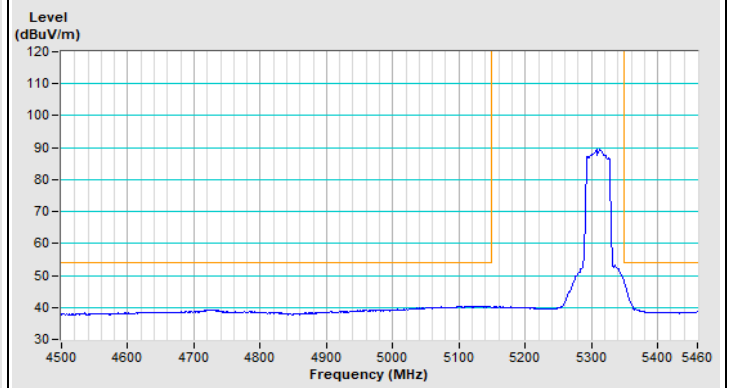
802.11ac (VHT40) Channel 38



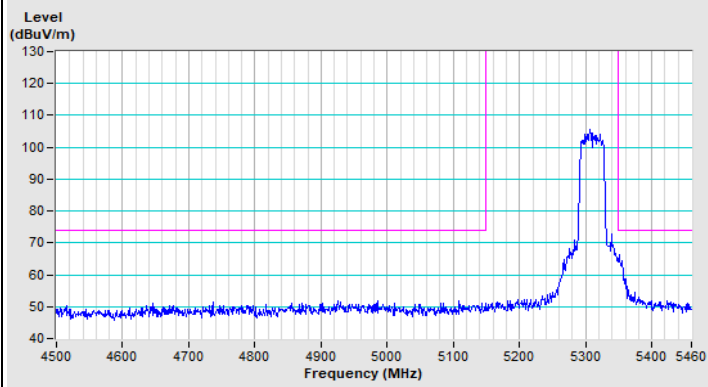
802.11ac (VHT40) Channel 62



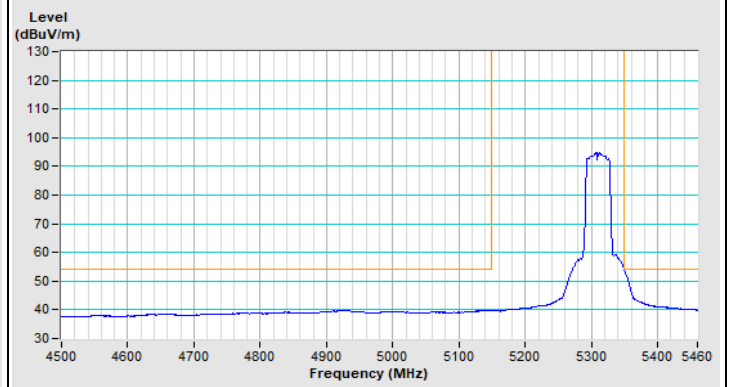
Horizontal (Peak)



Horizontal (Average)



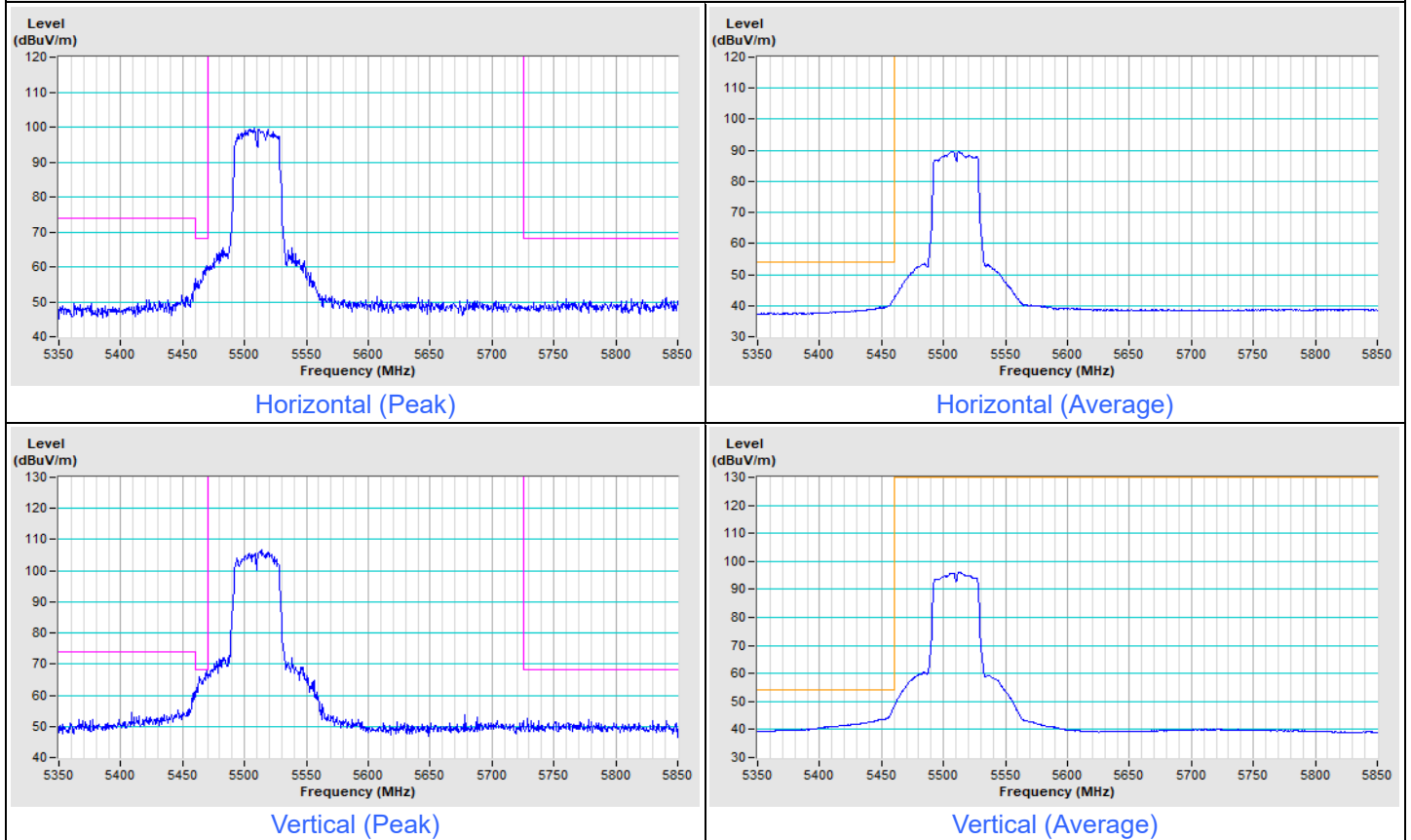
Vertical (Peak)



Vertical (Average)

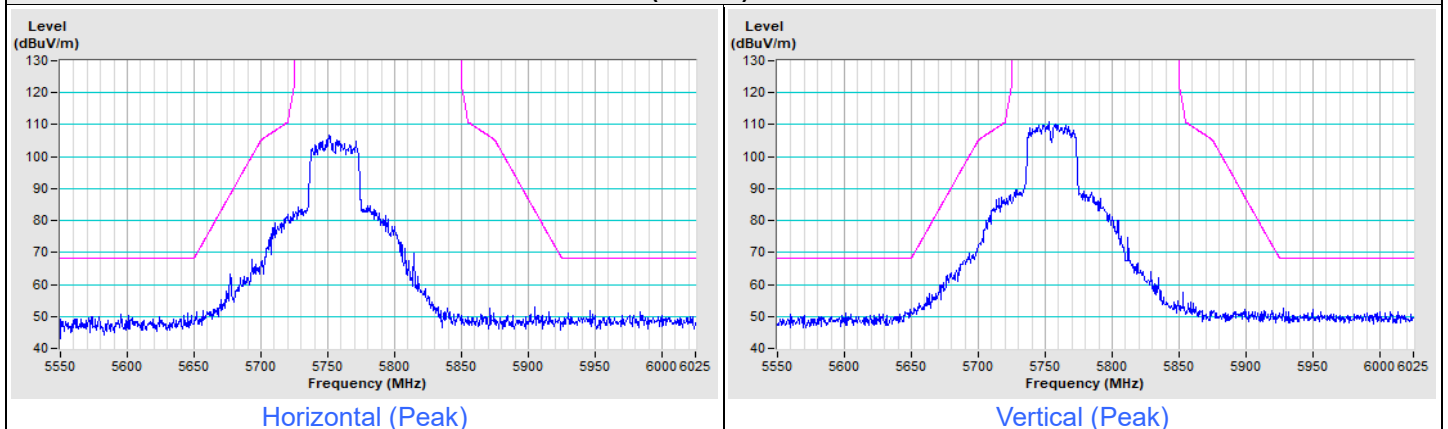
Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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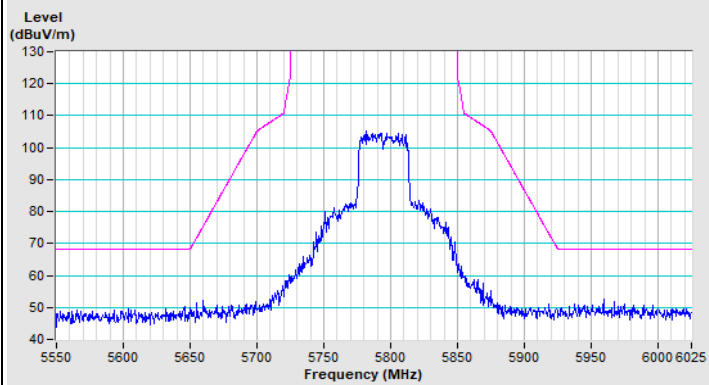
802.11ac (VHT40) Channel 102



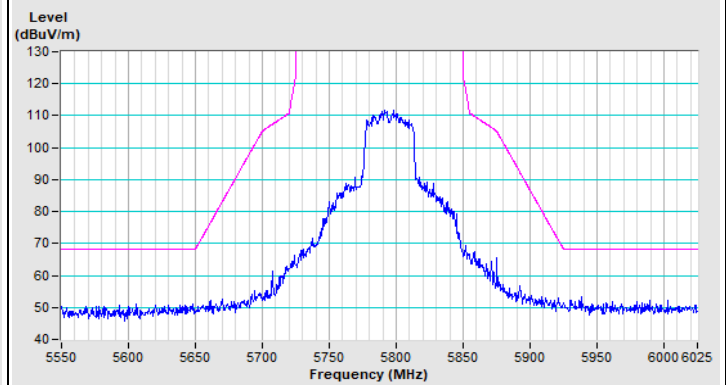
Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ac (VHT40) Channel 151



802.11ac (VHT40) Channel 159

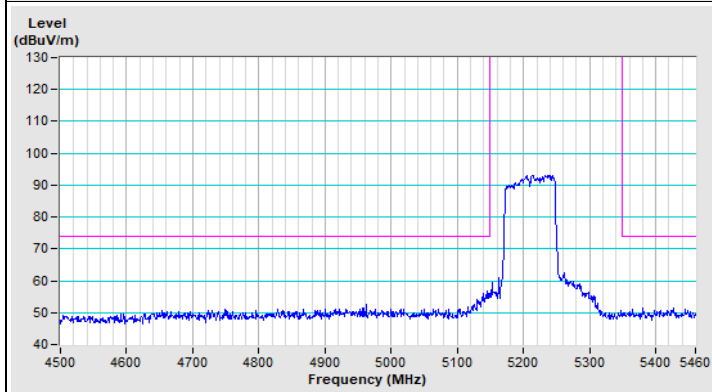
Horizontal (Peak)



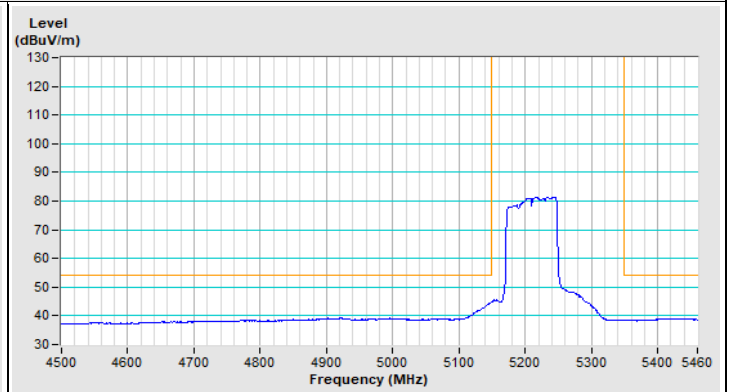
Vertical (Peak)

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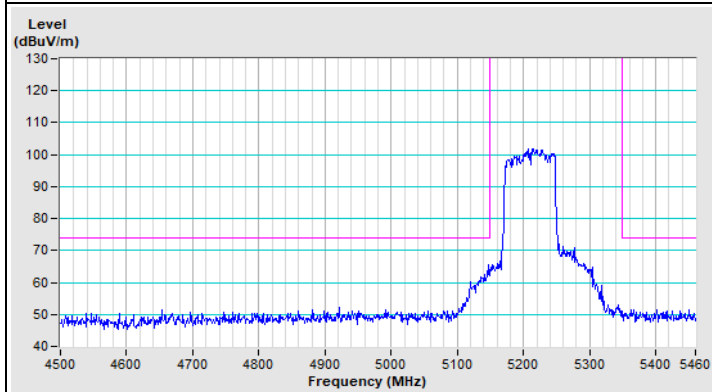
802.11ac (VHT80) Channel 42



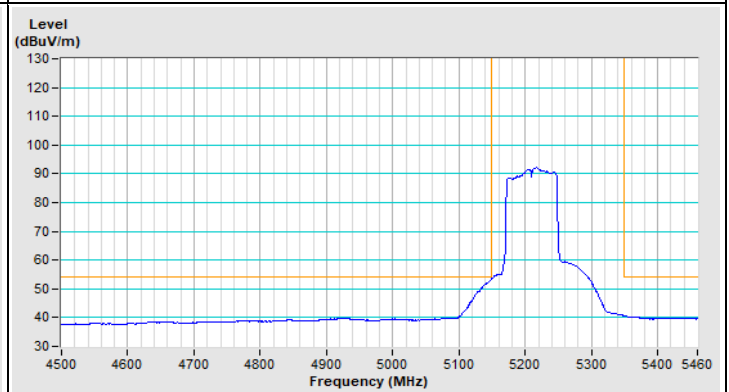
Horizontal (Peak)



Horizontal (Average)

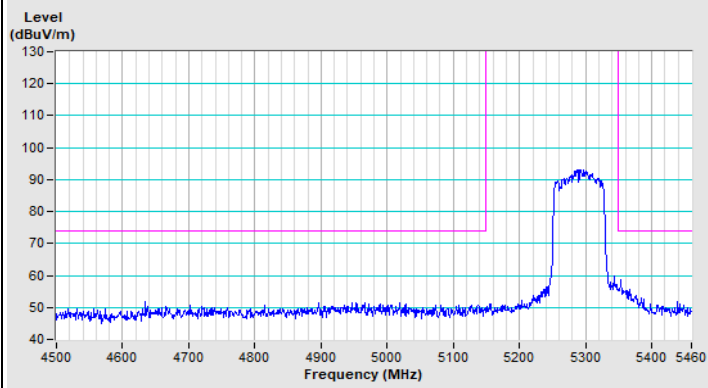


Vertical (Peak)

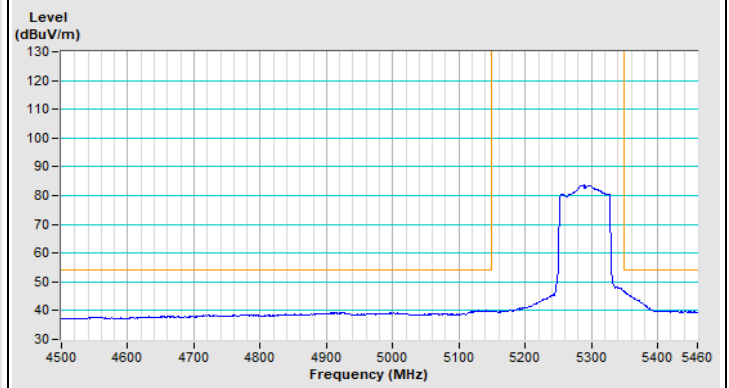


Vertical (Average)

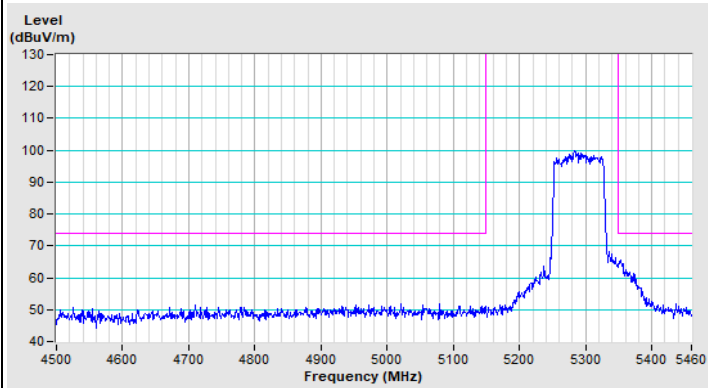
802.11ac (VHT80) Channel 58



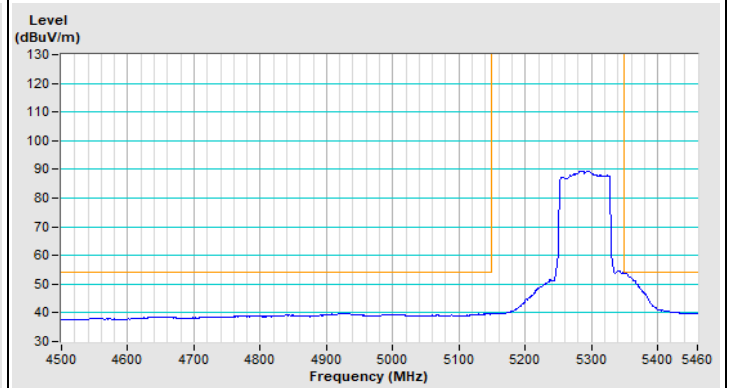
Horizontal (Peak)



Horizontal (Average)



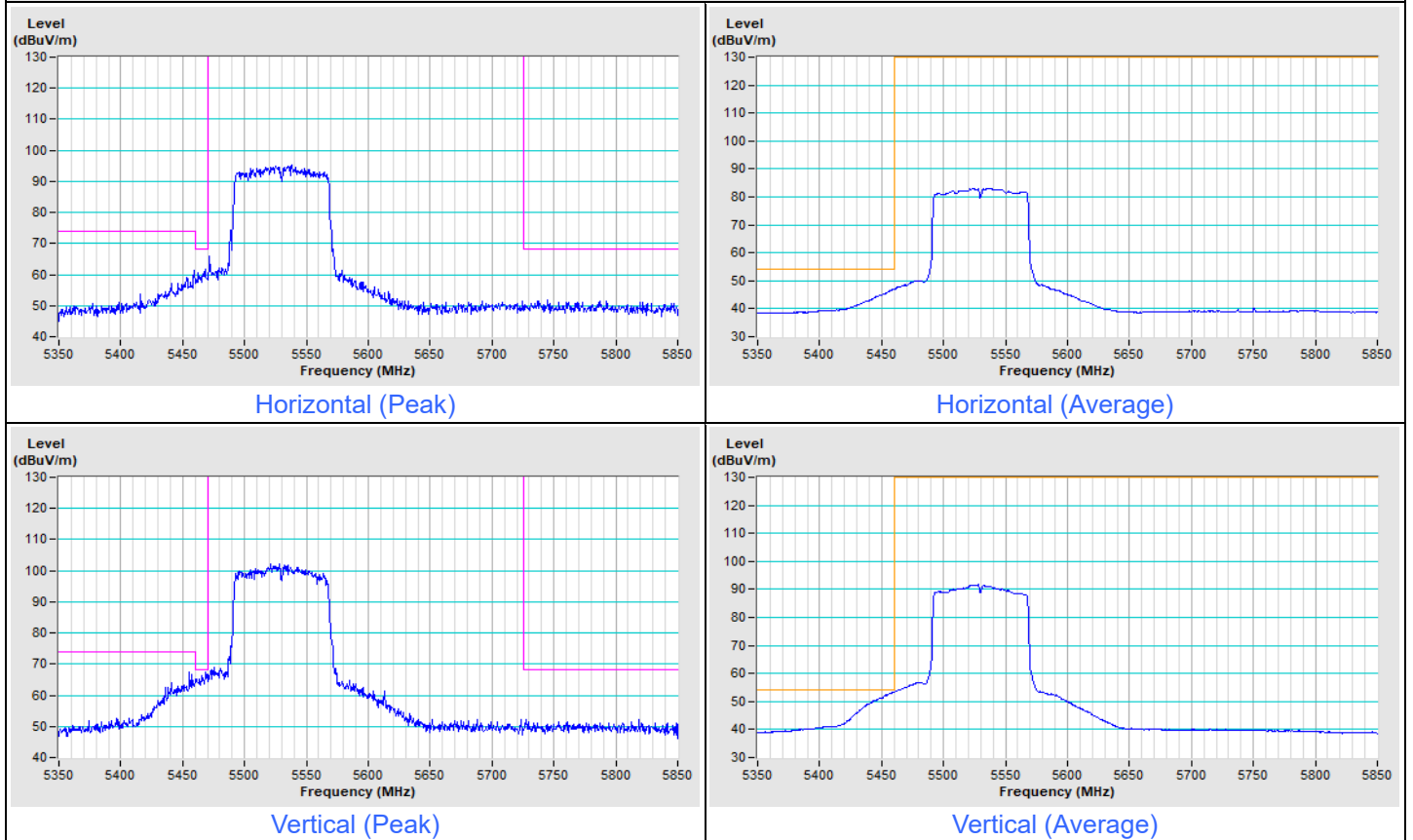
Vertical (Peak)



Vertical (Average)

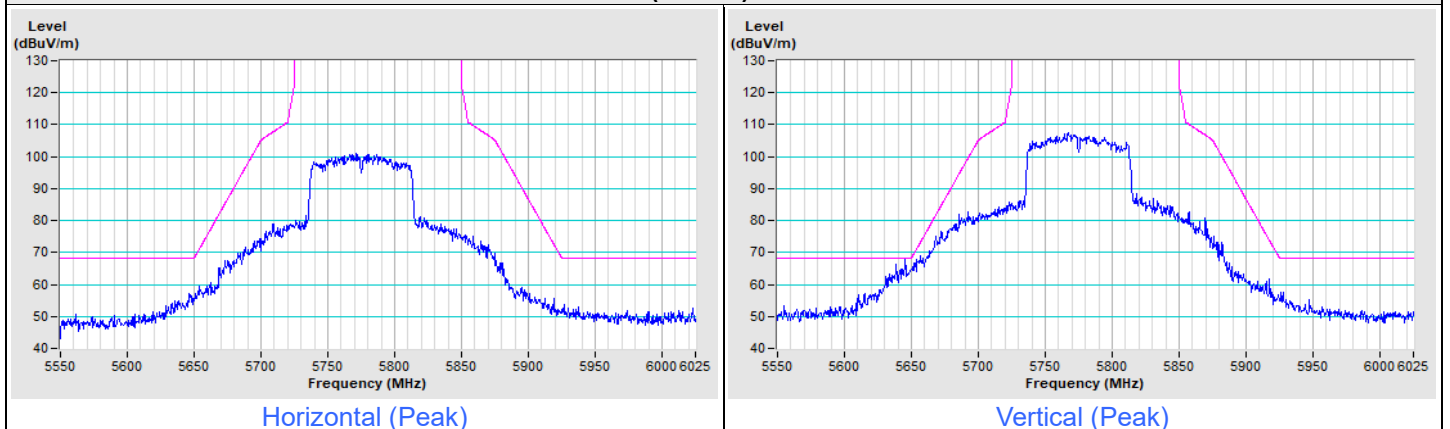
Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=1 kHz, DET=Peak
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802.11ac (VHT80) Channel 106



Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ac (VHT80) Channel 155



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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