

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Report No.: RFBERD-WTW-P21100651A-3
FCC ID: COF-WMBACBM25
Product: 802.11a/b/g/n/ac + BT 4.1 Module
Brand: USI
Model No.: WM-BAC-BM-25-FF3
Series Model: WM-BAC-BM-25, WM-BAC-BM-25_FF2
Received Date: 2023/4/14
Test Date: 2023/4/25 ~ 2023/5/23
Issued Date: 2023/6/16

Applicant: Universal Global Scientific Industrial Co., Ltd.

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

Designation Number:

Approved by:

Jeremy Lin

Date:

2023/6/16

Jeremy Lin / Project Engineer

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Prepared by : Gina Liu / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBERD-WTW-P21100651A-3	Original Release	2023/6/16

1 Certificate

Product: 802.11a/b/g/n/ac + BT 4.1 Module

Brand: USI

Test Model: WM-BAC-BM-25-FF3

Series Model: WM-BAC-BM-25, WM-BAC-BM-25_FF2

Sample Status: Engineering Sample

Applicant: Universal Global Scientific Industrial Co., Ltd.

Test Date: 2023/4/25 ~ 2023/5/23

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

Measurement procedure: ANSI C63.10-2013
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	N/A	Refer to Note
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	N/A	Refer to Note
15.407(e)	6 dB Bandwidth	N/A	Refer to Note
---	Occupied Bandwidth	-	Reference only.
15.407(g)	Frequency Stability	N/A	Refer to Note
15.407(b)(9)	AC Power Conducted Emissions	N/A	Refer to Note
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -4.5 dB at 76.56 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 -0.5 dB at 5470.00 MHz
15.203	Antenna Requirement	Pass	No antenna connector is used.

Note:

- Only test item of Radiated Emissions and Conducted Power were performed for this report. Other testing data please refer to original report no.: RF190103E03-1.
- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.44 dB
	30 MHz ~ 1 GHz	2.95 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 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	802.11a/b/g/n/ac + BT 4.1 Module
Brand	USI
Test Model	WM-BAC-BM-25-FF3
Series Model	WM-BAC-BM-25, WM-BAC-BM-25_FF2
Status of EUT	Engineering Sample
Power Supply Rating	3.6 Vdc (host equipment)
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK
Modulation Technology	OFDM
Transfer Rate	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0 Mbps 802.11n: up to 150.0 Mbps 802.11ac: up to 433.3 Mbps
Operating Frequency	5180 ~ 5240 MHz, 5260 ~ 5320 MHz, 5500 ~ 5700 MHz, 5745 ~ 5825 MHz
Number of Channel	5180 ~ 5320 MHz: 8 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 4 for 802.11n (HT40), 802.11ac (VHT40) 2 for 802.11ac (VHT80) 5500 ~ 5700 MHz: 11 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 5 for 802.11n (HT40), 802.11ac (VHT40) 2 for 802.11ac (VHT80) 5745 ~ 5825 MHz: 5 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 2 for 802.11n (HT40), 802.11ac (VHT40) 1 for 802.11ac (VHT80)
Output Power	5.18 GHz ~ 5.24 GHz : 92.257 mW (19.65 dBm) 5.26 GHz ~ 5.32 GHz : 82.604 mW (19.17 dBm) 5.5 GHz ~ 5.7 GHz : 85.31 mW (19.31 dBm) 5.745 GHz ~ 5.825 GHz : 150.314 mW (21.77 dBm)

Note:

1. This report is prepared for FCC class II permissive change. This report is issued as a supplementary report to BV CPS report no. RF190103E03-1 and RFBERD-WTW-P21100651-3. The difference compared with original report is listed as below, only test item of Radiated Emissions and Maximum Peak Output Power were performed for this report.

➤ Added one Model Name: WM-BAC-BM-25-FF3

➤ Change Ant. Matching , power reduce

2. All models are listed as below.

Brand	Model	Difference
USI	WM-BAC-BM-25	All models are electrically identical, different model names are for marketing purpose.
	WM-BAC-BM-25_FF2	
	WM-BAC-BM-25-FF3	

3. There are WLAN and Bluetooth technology used for the EUT.

4. Simultaneously transmission condition.

Condition	Technology	
1	WLAN 2.4GHz	Bluetooth
2	WLAN 5GHz	Bluetooth

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Brand	Model	Antenna Net Gain(dBi)	Frequency range (GHz)	Antenna Type	Connector Type
YANGO	ANT3216A063R2455A	1.59	2.4~2.4835	Ceramic Chip Antenna	none
		2.23	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

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:	EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan in these ways and find the worst case as a representative test condition.
Worst Case:	The worst case was found when positioned on Y-axis.

Test Item	Mode	Tested Channel	Modulation	Data Rate
Output power	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6.0Mb/s
	802.11ac (VHT20):	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	7.2Mb/s
	802.11ac (VHT40)	38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	15.0Mb/s
	802.11ac (VHT80)	42, 58, 106, 122, 155	BPSK	29.3Mb/s
RE Below 1GHz	802.11ac (VHT40)	159	BPSK	6.0Mb/s
RE Above 1GHz	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	6.0Mb/s
	802.11ac (VHT20):	36, 40, 48, 52, 60, 64, 100, 116, 140, 149, 157, 165	BPSK	7.2Mb/s
	802.11ac (VHT40)	38, 46, 54, 62, 102, 110, 134, 151, 159	BPSK	15.0Mb/s
	802.11ac (VHT80)	42, 58, 106, 122, 155	BPSK	29.3Mb/s

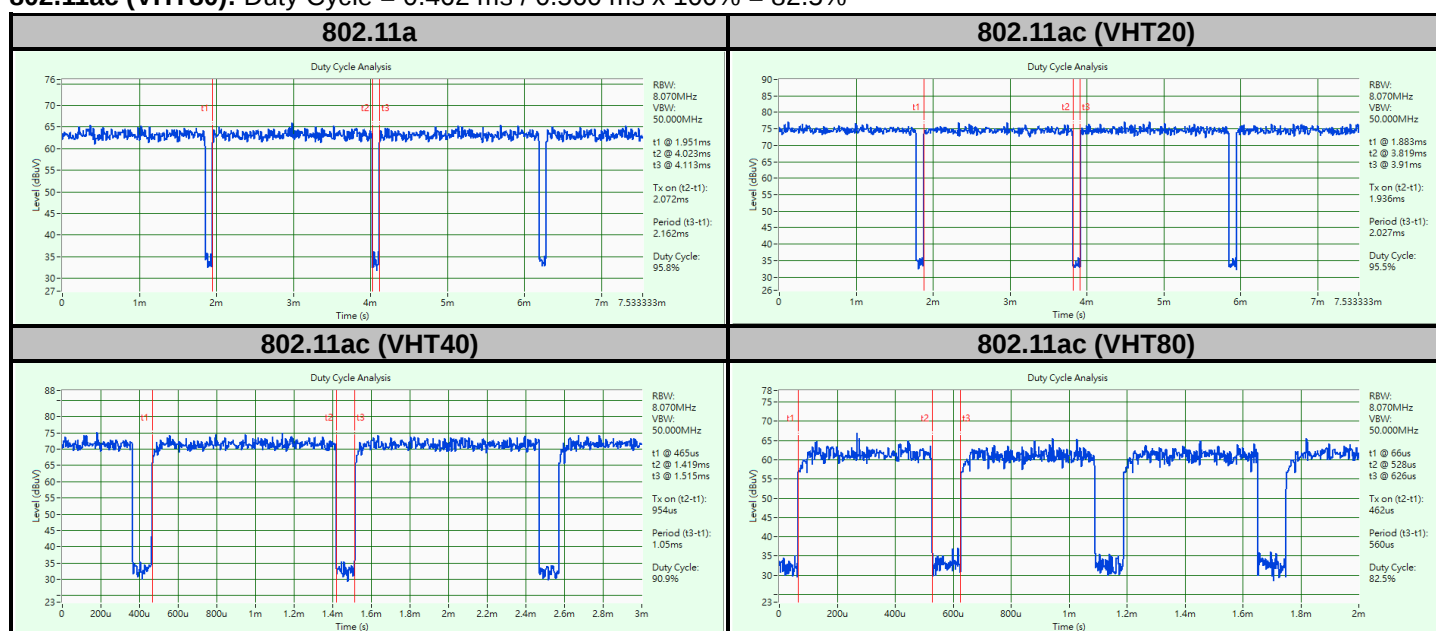
3.5 Duty Cycle of Test Signal

802.11a: Duty Cycle = 2.072 ms / 2.162 ms x 100% = 95.8%

802.11ac (VHT20): Duty Cycle = 1.936 ms / 2.027 ms x 100% = 95.5%

802.11ac (VHT40): Duty Cycle = 0.945 ms / 1.05 ms x 100% = 90.9%

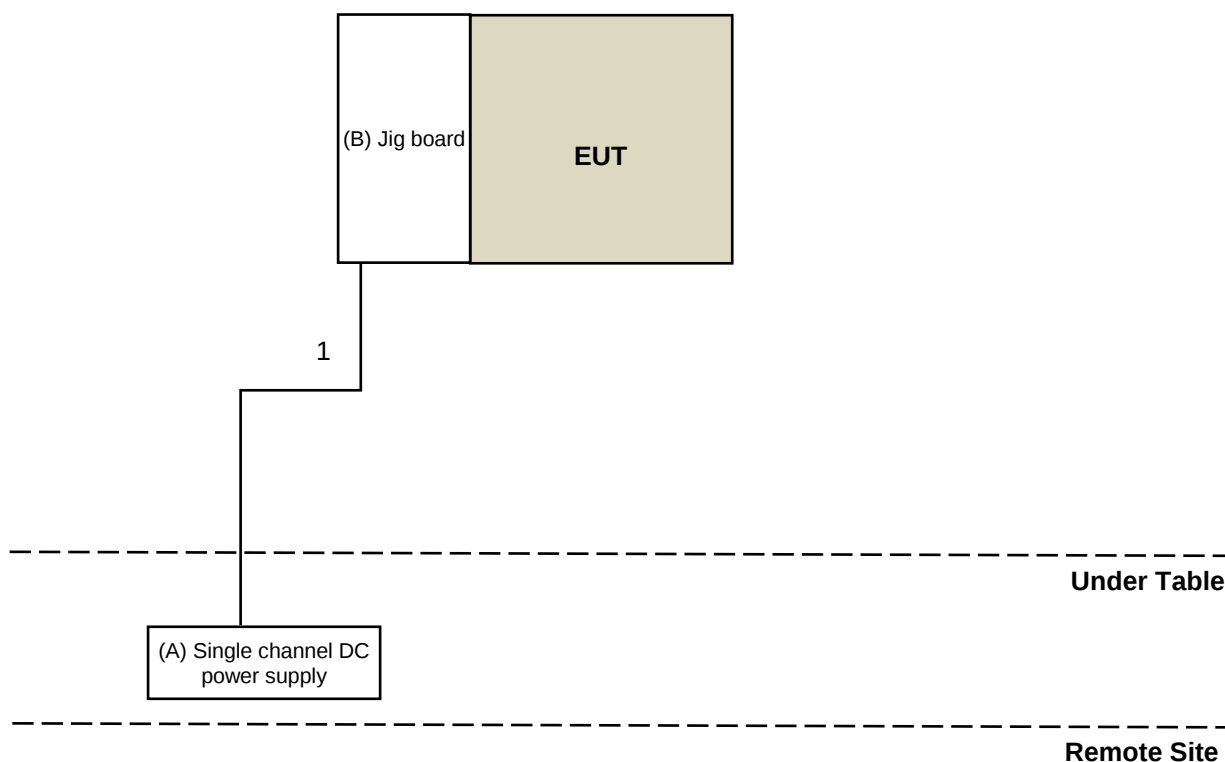
802.11ac (VHT80): Duty Cycle = 0.462 ms / 0.560 ms x 100% = 82.5%



3.6 Test Program Used and Operation Descriptions

Controlling software Terminal Ver 3.18.3 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Single channel DC power supply	JIN YIH Technology	SP3051	SP30512113422	N/A	Provided by Lab
B	Jig board	N/A	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	N	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 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY55190004/MY55190007/MY55210005	2022/7/13	2023/7/12

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2023/5/23

4.2 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower &Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-472	2022/10/21	2023/10/20
EXA Signal Analyzer Agilent	N9010A	MY52220207	2023/1/3	2024/1/2
Loop Antenna Electro-Metrics	EM-6879	269	2022/9/19	2023/9/18
Loop Antenna TESEQ	HLA 6121	45745	2022/7/27	2023/7/26
MXE EMI Receiver KEYSIGHT	N9038A	MY55420137	2023/5/3	2024/5/2
Preamplifier EMCI	EMC 330H	980112	2022/10/1	2023/9/30
	EMC001340	980201	2022/9/23	2023/9/22
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2023/1/7	2024/1/6
RF Coaxial Cable WORKEN	8D-FB	Cable-Ch10-01	2022/10/1	2023/9/30
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2023/5/10

4.3 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	7	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2023/1/3	2024/1/2
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-969	2022/11/13	2023/11/12
	BBHA 9170	148	2022/11/13	2023/11/12
MXE EMI Receiver KEYSIGHT	N9038A	MY55420137	2022/4/27 2023/5/3	2023/4/26 2024/5/2
Notch Filter MICRO-TRONICS	BRM17690	004	2023/1/11	2024/1/10
	BRM50716	060	2023/1/11	2024/1/10
Preamplifier EMCI	EMC 012645	980115	2022/10/1	2023/9/30
	EMC 184045	980116	2022/10/1	2023/9/30
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2022/7/9	2023/7/8
	EMC102-KM-KM-3000	150929	2022/7/9	2023/7/8
	EMC104-SM-SM- 8000+3000	171005	2022/10/1	2023/9/30
RF Coaxial Cable HUBER SUHNER	SUCOFLEX 104	EMC104-SM-SM- 1000(140807)	2022/10/1	2023/9/30
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2023/4/25 ~ 2023/5/18

5 Limits of Test Items

5.1 RF Output Power

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

5.2 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).

5.3 Unwanted Emissions above 1 GHz

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

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

Notes:

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

Limits of unwanted emission out of the restricted bands

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

For transmitters operating in the 5.15-5.25 GHz band:

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

For transmitters operating in the 5.25-5.35 GHz band:

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

For transmitters operating in the 5.47-5.725 GHz band:

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

For transmitters operating in the 5.725-5.850 GHz band:

Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1}	PK: 68.2 (dBμV/m) ^{*1}
	PK: 10 (dBm/MHz) ^{*2}	PK: 105.2 (dBμV/m) ^{*2}
	PK: 15.6 (dBm/MHz) ^{*3}	PK: 110.8 (dBμV/m) ^{*3}
	PK: 27 (dBm/MHz) ^{*4}	PK: 122.2 (dBμV/m) ^{*4}

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

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

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

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

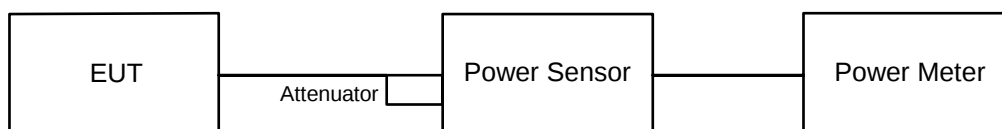
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup



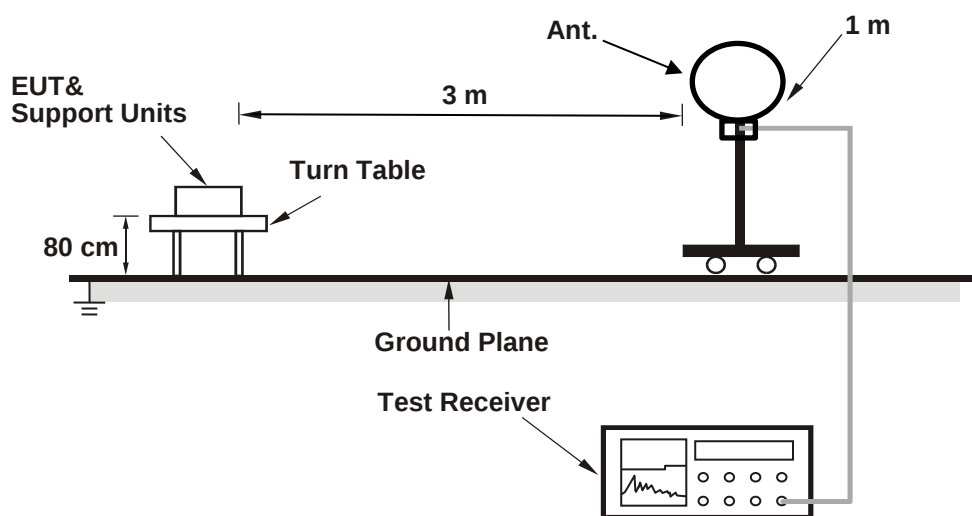
6.1.2 Test Procedure

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

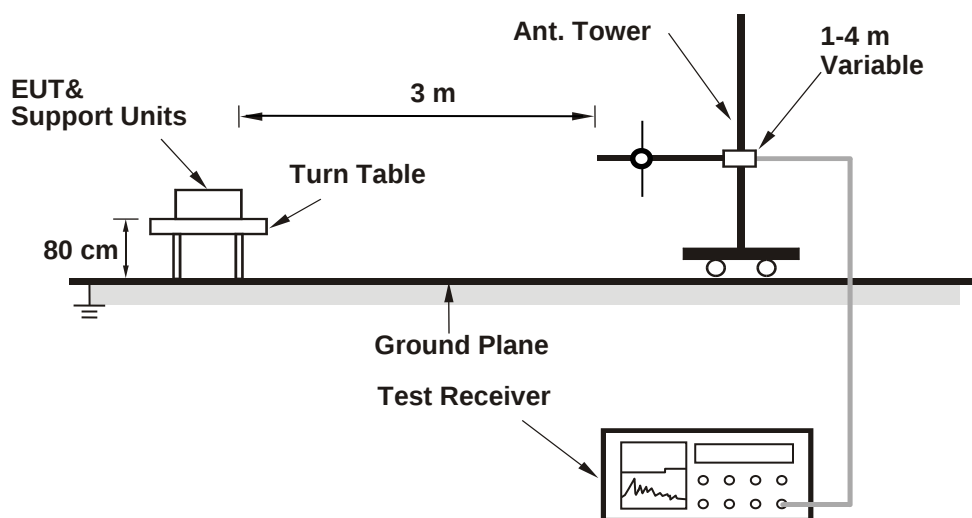
6.2 Unwanted Emissions below 1 GHz

6.2.1 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).

6.2.2 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

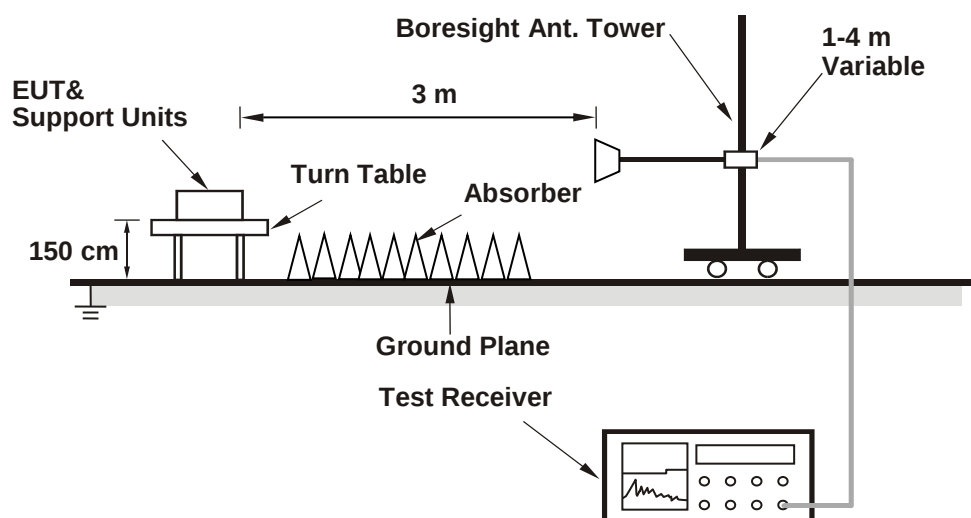
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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), Average detection (AV), Peak detection (PK) at frequency (30MHz to 1 GHz).
2. All modes of operation were investigated and the worst-case emissions are reported.

6.3 Unwanted Emissions above 1 GHz

6.3.1 Test Setup



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

6.3.2 Test Procedure

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

Notes:

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

7 Test Results of Test Item

7.1 RF Output Power

Input Power:	3.6 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Ivan Tseng
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802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	61.376	17.88	30	Pass
40	5200	84.528	19.27	30	Pass
48	5240	64.269	18.08	30	Pass
52	5260	53.333	17.27	24	Pass
60	5300	37.931	15.79	24	Pass
64	5320	28.84	14.60	24	Pass
100	5500	18.408	12.65	24	Pass
116	5580	36.392	15.61	24	Pass
140	5700	23.281	13.67	24	Pass
149	5745	137.404	21.38	30	Pass
157	5785	141.906	21.52	30	Pass
165	5825	146.555	21.66	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the antenna gain is 2.23 dBi < 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	68.707	18.37	30	Pass
40	5200	92.257	19.65	30	Pass
48	5240	60.814	17.84	30	Pass
52	5260	74.817	18.74	24	Pass
60	5300	59.156	17.72	24	Pass
64	5320	44.566	16.49	24	Pass
100	5500	21.478	13.32	24	Pass
116	5580	31.189	14.94	24	Pass
140	5700	30.13	14.79	24	Pass
149	5745	136.458	21.35	30	Pass
157	5785	139.637	21.45	30	Pass
165	5825	143.549	21.57	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the antenna gain is 2.23 dBi < 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	61.235	17.87	30	Pass
46	5230	54.45	17.36	30	Pass
54	5270	82.604	19.17	24	Pass
62	5310	35.318	15.48	24	Pass
102	5510	27.04	14.32	24	Pass
110	5550	85.31	19.31	24	Pass
134	5670	43.251	16.36	24	Pass
151	5755	147.571	21.69	30	Pass
159	5795	150.314	21.77	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the antenna gain is 2.23 dBi < 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	38.194	15.82	30	Pass
58	5290	22.646	13.55	24	Pass
106	5530	15.205	11.82	24	Pass
122	5610	59.156	17.72	24	Pass
155	5775	110.154	20.42	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-3, the antenna gain is 2.23 dBi < 6 dBi, so the output power limit shall not be reduced.

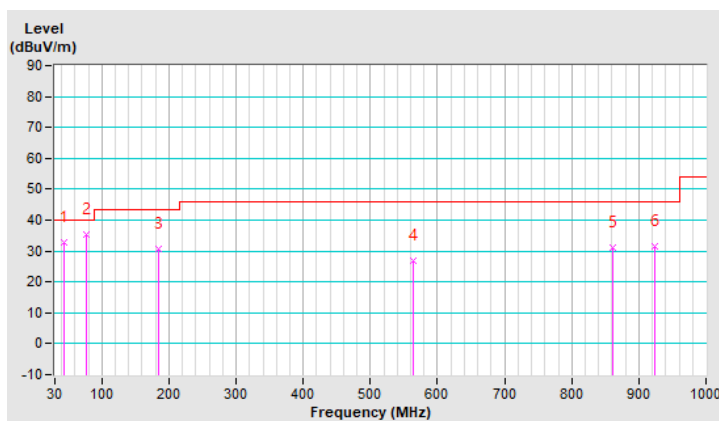
7.2 Unwanted Emissions below 1 GHz

RF Mode	802.11ac (VHT40)	Channel	CH 159 : 5795 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21.3°C, 65.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	43.58	32.8 QP	40.0	-7.2	1.00 H	76	45.2	-12.4
2	76.56	35.5 QP	40.0	-4.5	2.00 H	216	51.5	-16.0
3	185.20	30.6 QP	43.5	-12.9	2.00 H	85	45.2	-14.6
4	564.47	26.7 QP	46.0	-19.3	1.00 H	281	32.9	-6.2
5	861.29	31.0 QP	46.0	-15.0	2.00 H	347	32.5	-1.5
6	923.37	31.6 QP	46.0	-14.4	1.50 H	37	32.3	-0.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

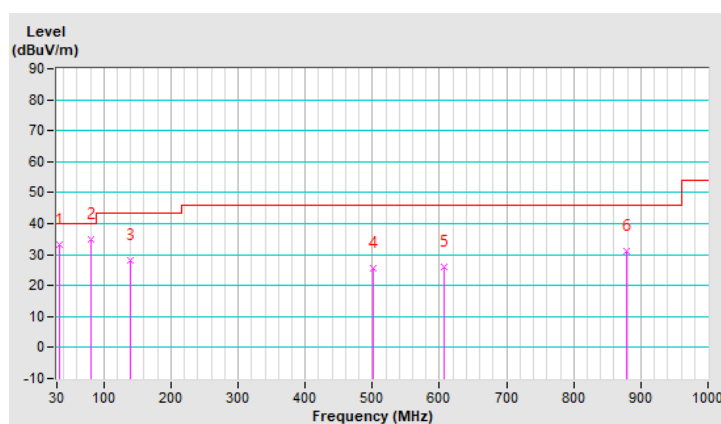


RF Mode	802.11ac (VHT40)	Channel	CH 159 : 5795 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21.3°C, 65.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	33.88	33.2 QP	40.0	-6.8	2.00 V	41	46.0	-12.8
2	80.44	34.8 QP	40.0	-5.2	1.00 V	307	51.8	-17.0
3	139.61	28.2 QP	43.5	-15.3	1.50 V	340	41.0	-12.8
4	500.45	25.5 QP	46.0	-20.5	1.00 V	305	32.4	-6.9
5	607.15	26.2 QP	46.0	-19.8	2.00 V	40	31.4	-5.2
6	878.75	31.3 QP	46.0	-14.7	1.50 V	347	32.5	-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 emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



7.3 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 (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.9 PK	74.0	-9.1	1.27 H	10	23.2	41.7
2	5150.00	50.6 AV	54.0	-3.4	1.27 H	10	8.9	41.7
3	*5180.00	104.2 PK			1.27 H	10	62.6	41.6
4	*5180.00	96.9 AV			1.27 H	10	55.3	41.6
5	#10360.00	57.0 PK	68.2	-11.2	2.77 H	163	44.5	12.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.4 PK	74.0	-7.6	2.79 V	319	24.7	41.7
2	5150.00	52.7 AV	54.0	-1.3	2.79 V	319	11.0	41.7
3	*5180.00	107.3 PK			2.79 V	319	65.7	41.6
4	*5180.00	99.8 AV			2.79 V	319	58.2	41.6
5	#10360.00	58.8 PK	68.2	-9.4	2.32 V	167	46.3	12.5

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 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	105.2 PK			1.15 H	350	63.8	41.4
2	*5200.00	97.9 AV			1.15 H	350	56.5	41.4
3	#10400.00	58.9 PK	68.2	-9.3	3.21 H	257	46.7	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	*5200.00	109.0 PK			1.13 V	64	67.6	41.4
2	*5200.00	101.9 AV			1.13 V	64	60.5	41.4
3	#10400.00	58.7 PK	68.2	-9.5	2.35 V	168	46.5	12.2

Remarks:

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

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 (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	105.1 PK			1.00 H	349	63.7	41.4
2	*5240.00	97.7 AV			1.00 H	349	56.3	41.4
3	5350.00	61.2 PK	74.0	-12.8	1.00 H	349	55.3	5.9
4	5350.00	49.8 AV	54.0	-4.2	1.00 H	349	43.9	5.9
5	#10480.00	58.4 PK	68.2	-9.8	3.35 H	177	45.3	13.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	109.5 PK			1.00 V	65	68.1	41.4
2	*5240.00	102.2 AV			1.00 V	65	60.8	41.4
3	5350.00	60.6 PK	74.0	-13.4	1.00 V	65	54.7	5.9
4	5350.00	49.8 AV	54.0	-4.2	1.00 V	65	43.9	5.9
5	#10480.00	59.3 PK	68.2	-8.9	3.41 V	206	46.2	13.1

Remarks:

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

RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.8 PK	74.0	-13.2	1.91 H	341	54.8	6.0
2	5150.00	49.9 AV	54.0	-4.1	1.91 H	341	43.9	6.0
3	*5260.00	104.6 PK			1.91 H	341	63.2	41.4
4	*5260.00	97.2 AV			1.91 H	341	55.8	41.4
5	#10520.00	58.4 PK	68.2	-9.8	2.63 H	287	45.2	13.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.3 PK	74.0	-13.7	1.02 V	65	54.3	6.0
2	5150.00	49.8 AV	54.0	-4.2	1.02 V	65	43.8	6.0
3	*5260.00	108.4 PK			1.02 V	65	67.0	41.4
4	*5260.00	101.0 AV			1.02 V	65	59.6	41.4
5	#10520.00	59.6 PK	68.2	-8.6	3.27 V	158	46.4	13.2

Remarks:

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

RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	103.1 PK			1.92 H	341	61.8	41.3
2	*5300.00	95.9 AV			1.92 H	341	54.6	41.3
3	10600.00	58.6 PK	74.0	-15.4	3.26 H	178	45.3	13.3
4	10600.00	48.7 AV	54.0	-5.3	3.26 H	178	35.4	13.3
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	*5300.00	107.4 PK			1.00 V	66	66.1	41.3
2	*5300.00	100.0 AV			1.00 V	66	58.7	41.3
3	10600.00	59.8 PK	74.0	-14.2	2.71 V	163	46.2	13.6
4	10600.00	49.9 AV	54.0	-4.1	2.71 V	163	36.3	13.6

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.

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 (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	102.7 PK			1.90 H	342	61.3	41.4
2	*5320.00	95.2 AV			1.90 H	342	53.8	41.4
3	5350.00	61.2 PK	74.0	-12.8	1.90 H	342	55.3	5.9
4	5350.00	50.0 AV	54.0	-4.0	1.90 H	342	44.1	5.9
5	10640.00	59.3 PK	74.0	-14.7	1.62 H	354	45.5	13.8
6	10640.00	49.3 AV	54.0	-4.7	1.62 H	354	35.5	13.8
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	*5320.00	106.6 PK			1.00 V	99	65.2	41.4
2	*5320.00	99.4 AV			1.00 V	99	58.0	41.4
3	5350.00	63.0 PK	74.0	-11.0	1.00 V	99	57.1	5.9
4	5350.00	51.1 AV	54.0	-2.9	1.00 V	99	45.2	5.9
5	10640.00	60.1 PK	74.0	-13.9	2.49 V	28	46.3	13.8
6	10640.00	49.6 AV	54.0	-4.4	2.49 V	28	35.8	13.8

Remarks:

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

RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.4 PK	74.0	-12.6	1.90 H	360	55.3	6.1
2	5460.00	50.6 AV	54.0	-3.4	1.90 H	360	44.5	6.1
3	#5470.00	63.0 PK	68.2	-5.2	1.90 H	360	56.9	6.1
4	*5500.00	102.4 PK			1.90 H	360	60.8	41.6
5	*5500.00	95.1 AV			1.90 H	360	53.5	41.6
6	11000.00	59.3 PK	74.0	-14.7	2.40 H	30	45.7	13.6
7	11000.00	48.7 AV	54.0	-5.3	2.40 H	30	35.1	13.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.0 PK	74.0	-12.0	1.00 V	87	55.9	6.1
2	5460.00	51.8 AV	54.0	-2.2	1.00 V	87	45.7	6.1
3	#5470.00	67.7 PK	68.2	-0.5	1.00 V	87	61.6	6.1
4	*5500.00	106.7 PK			1.00 V	87	65.1	41.6
5	*5500.00	99.2 AV			1.00 V	87	57.6	41.6
6	11000.00	60.1 PK	74.0	-13.9	3.42 V	273	46.5	13.6
7	11000.00	48.9 AV	54.0	-5.1	3.42 V	273	35.3	13.6

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 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	103.3 PK			1.91 H	358	61.4	41.9
2	*5580.00	96.1 AV			1.91 H	358	54.2	41.9
3	11160.00	59.4 PK	74.0	-14.6	2.26 H	159	45.9	13.5
4	11160.00	48.6 AV	54.0	-5.4	2.26 H	159	35.1	13.5
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	*5580.00	107.3 PK			1.00 V	88	65.4	41.9
2	*5580.00	100.1 AV			1.00 V	88	58.2	41.9
3	11160.00	59.5 PK	74.0	-14.5	3.82 V	146	46.0	13.5
4	11160.00	48.7 AV	54.0	-5.3	3.82 V	146	35.2	13.5

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.

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 (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	101.7 PK			1.61 H	1	59.7	42.0
2	*5700.00	94.5 AV			1.61 H	1	52.5	42.0
3	#5725.00	61.4 PK	68.2	-6.8	1.61 H	1	19.2	42.2
4	11400.00	58.7 PK	74.0	-15.3	2.34 H	188	43.5	15.2
5	11400.00	48.6 AV	54.0	-5.4	2.34 H	188	33.4	15.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	107.8 PK			1.06 V	322	65.8	42.0
2	*5700.00	100.4 AV			1.06 V	322	58.4	42.0
3	#5725.00	67.0 PK	68.2	-1.2	1.06 V	322	24.8	42.2
4	11400.00	59.3 PK	74.0	-14.7	2.24 V	188	44.1	15.2
5	11400.00	49.4 AV	54.0	-4.6	2.24 V	188	34.2	15.2

Remarks:

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

RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5607.60	62.1 PK	68.2	-6.1	1.90 H	157	55.8	6.3
2	*5745.00	107.5 PK			1.90 H	157	65.2	42.3
3	*5745.00	100.1 AV			1.90 H	157	57.8	42.3
4	#5963.60	63.0 PK	68.2	-5.2	1.90 H	157	55.5	7.5
5	11490.00	60.0 PK	74.0	-14.0	1.71 H	291	45.6	14.4
6	11490.00	49.5 AV	54.0	-4.5	1.71 H	291	35.1	14.4
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	#5648.40	63.1 PK	68.2	-5.1	2.14 V	75	56.6	6.5
2	*5745.00	111.4 PK			2.14 V	75	69.1	42.3
3	*5745.00	104.1 AV			2.14 V	75	61.8	42.3
4	#5955.20	63.9 PK	68.2	-4.3	2.14 V	75	56.4	7.5
5	11490.00	60.6 PK	74.0	-13.4	3.27 V	314	46.2	14.4
6	11490.00	49.7 AV	54.0	-4.3	3.27 V	314	35.3	14.4

Remarks:

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

RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5636.80	61.2 PK	68.2	-7.0	2.16 H	158	54.7	6.5
2	*5785.00	106.8 PK			2.16 H	158	64.3	42.5
3	*5785.00	99.4 AV			2.16 H	158	56.9	42.5
4	#5972.00	62.5 PK	68.2	-5.7	2.16 H	158	55.0	7.5
5	11570.00	60.9 PK	74.0	-13.1	1.01 H	300	45.9	15.0
6	11570.00	49.7 AV	54.0	-4.3	1.01 H	300	34.7	15.0
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	#5628.80	62.2 PK	68.2	-6.0	2.14 V	75	55.7	6.5
2	*5785.00	111.6 PK			2.14 V	75	69.1	42.5
3	*5785.00	104.2 AV			2.14 V	75	61.7	42.5
4	#5987.60	63.6 PK	68.2	-4.6	2.14 V	75	56.0	7.6
5	11570.00	61.4 PK	74.0	-12.6	3.89 V	84	46.4	15.0
6	11570.00	49.9 AV	54.0	-4.1	3.89 V	84	34.9	15.0

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 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 510 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.60	62.3 PK	68.2	-5.9	2.16 H	130	55.8	6.5
2	*5825.00	107.3 PK			2.15 H	130	64.7	42.6
3	*5825.00	100.2 AV			2.15 H	130	57.6	42.6
4	#5936.80	62.6 PK	68.2	-5.6	2.16 H	130	54.9	7.7
5	11650.00	60.3 PK	74.0	-13.7	2.07 H	350	45.7	14.6
6	11650.00	49.6 AV	54.0	-4.4	2.07 H	350	35.0	14.6
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	#5636.40	62.2 PK	68.2	-6.0	2.14 V	75	55.7	6.5
2	*5825.00	111.8 PK			2.14 V	75	69.2	42.6
3	*5825.00	104.3 AV			2.14 V	75	61.7	42.6
4	#5965.20	63.4 PK	68.2	-4.8	2.14 V	75	55.9	7.5
5	11650.00	60.8 PK	74.0	-13.2	2.02 V	12	46.2	14.6
6	11650.00	49.9 AV	54.0	-4.1	2.02 V	12	35.3	14.6

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.9 PK	74.0	-9.1	1.33 H	10	23.2	41.7
2	5150.00	51.0 AV	54.0	-3.0	1.33 H	10	9.3	41.7
3	*5180.00	105.2 PK			1.33 H	10	63.6	41.6
4	*5180.00	97.3 AV			1.33 H	10	55.7	41.6
5	#10360.00	58.0 PK	68.2	-10.2	1.78 H	256	45.5	12.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.6 PK	74.0	-7.4	1.44 V	327	24.9	41.7
2	5150.00	53.0 AV	54.0	-1.0	1.44 V	327	11.3	41.7
3	*5180.00	107.5 PK			1.44 V	327	65.9	41.6
4	*5180.00	99.6 AV			1.44 V	327	58.0	41.6
5	#10360.00	58.0 PK	68.2	-10.2	2.25 V	174	45.5	12.5

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 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	105.2 PK			1.04 H	347	63.8	41.4
2	*5200.00	96.9 AV			1.04 H	347	55.5	41.4
3	#10400.00	57.7 PK	68.2	-10.5	3.58 H	337	45.5	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	*5200.00	109.9 PK			1.08 V	65	68.5	41.4
2	*5200.00	101.7 AV			1.08 V	65	60.3	41.4
3	#10400.00	58.4 PK	68.2	-9.8	1.21 V	300	46.2	12.2

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	103.8 PK			1.04 H	347	62.4	41.4
2	*5240.00	95.6 AV			1.04 H	347	54.2	41.4
3	5350.00	59.9 PK	74.0	-14.1	1.04 H	347	54.0	5.9
4	5350.00	49.5 AV	54.0	-4.5	1.04 H	347	43.6	5.9
5	#10480.00	58.7 PK	68.2	-9.5	2.12 H	184	45.6	13.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	108.1 PK			1.08 V	65	66.7	41.4
2	*5240.00	99.9 AV			1.08 V	65	58.5	41.4
3	5350.00	60.0 PK	74.0	-14.0	1.08 V	65	54.1	5.9
4	5350.00	49.6 AV	54.0	-4.4	1.08 V	65	43.7	5.9
5	#10480.00	59.2 PK	68.2	-9.0	2.29 V	122	46.1	13.1

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.6 PK	74.0	-14.4	1.04 H	347	53.6	6.0
2	5150.00	49.4 AV	54.0	-4.6	1.04 H	347	43.4	6.0
3	*5260.00	105.3 PK			1.04 H	347	63.9	41.4
4	*5260.00	97.1 AV			1.04 H	347	55.7	41.4
5	#10520.00	59.1 PK	68.2	-9.1	3.60 H	296	45.9	13.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.7 PK	74.0	-14.3	1.08 V	65	53.7	6.0
2	5150.00	49.5 AV	54.0	-4.5	1.08 V	65	43.5	6.0
3	*5260.00	109.6 PK			1.08 V	65	68.2	41.4
4	*5260.00	101.4 AV			1.08 V	65	60.0	41.4
5	#10520.00	59.6 PK	68.2	-8.6	2.09 V	88	46.4	13.2

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	104.3 PK			1.05 H	348	63.0	41.3
2	*5300.00	96.1 AV			1.05 H	348	54.8	41.3
3	10600.00	59.4 PK	74.0	-14.6	2.41 H	148	45.8	13.6
4	10600.00	48.8 AV	54.0	-5.2	2.41 H	148	35.2	13.6
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	*5300.00	108.7 PK			1.07 V	64	67.4	41.3
2	*5300.00	100.5 AV			1.07 V	64	59.2	41.3
3	10600.00	59.7 PK	74.0	-14.3	2.59 V	128	46.1	13.6
4	10600.00	49.3 AV	54.0	-4.7	2.59 V	128	35.7	13.6

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.

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 (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	103.5 PK			1.10 H	347	62.1	41.4
2	*5320.00	95.3 AV			1.10 H	347	53.9	41.4
3	5350.00	60.8 PK	74.0	-13.2	1.10 H	347	54.9	5.9
4	5350.00	50.3 AV	54.0	-3.7	1.10 H	347	44.4	5.9
5	10640.00	59.7 PK	74.0	-14.3	1.16 H	133	45.9	13.8
6	10640.00	49.0 AV	54.0	-5.0	1.16 H	133	35.2	13.8
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	*5320.00	107.8 PK			1.05 V	66	66.4	41.4
2	*5320.00	99.6 AV			1.05 V	66	58.2	41.4
3	5350.00	62.6 PK	74.0	-11.4	1.05 V	66	56.7	5.9
4	5350.00	50.4 AV	54.0	-3.6	1.05 V	66	44.5	5.9
5	10640.00	59.8 PK	74.0	-14.2	1.92 V	62	46.0	13.8
6	10640.00	49.1 AV	54.0	-4.9	1.92 V	62	35.3	13.8

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.2 PK	74.0	-13.8	1.04 H	347	54.1	6.1
2	5460.00	50.4 AV	54.0	-3.6	1.04 H	347	44.3	6.1
3	#5470.00	62.2 PK	68.2	-6.0	1.04 H	347	56.1	6.1
4	*5500.00	101.2 PK			1.04 H	347	59.6	41.6
5	*5500.00	93.0 AV			1.04 H	347	51.4	41.6
6	11000.00	59.4 PK	74.0	-14.6	3.66 H	34	45.8	13.6
7	11000.00	49.0 AV	54.0	-5.0	3.66 H	34	35.4	13.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.5 PK	74.0	-13.5	1.08 V	61	54.4	6.1
2	5460.00	50.9 AV	54.0	-3.1	1.08 V	61	44.8	6.1
3	#5470.00	65.0 PK	68.2	-3.2	1.08 V	61	58.9	6.1
4	*5500.00	105.3 PK			1.08 V	61	63.7	41.6
5	*5500.00	97.1 AV			1.08 V	61	55.5	41.6
6	11000.00	60.1 PK	74.0	-13.9	1.35 V	167	46.5	13.6
7	11000.00	49.5 AV	54.0	-4.5	1.35 V	167	35.9	13.6

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 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	102.7 PK			1.20 H	265	60.8	41.9
2	*5580.00	94.5 AV			1.20 H	265	52.6	41.9
3	11160.00	59.5 PK	74.0	-14.5	2.21 H	166	46.0	13.5
4	11160.00	48.7 AV	54.0	-5.3	2.21 H	166	35.2	13.5
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	*5580.00	107.0 PK			1.00 V	69	65.1	41.9
2	*5580.00	98.8 AV			1.00 V	69	56.9	41.9
3	11160.00	59.6 PK	74.0	-14.4	1.25 V	350	46.1	13.5
4	11160.00	48.9 AV	54.0	-5.1	1.25 V	350	35.4	13.5

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.

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 (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	103.8 PK			1.56 H	2	61.8	42.0
2	*5700.00	95.7 AV			1.56 H	2	53.7	42.0
3	#5725.00	61.7 PK	68.2	-6.5	1.56 H	2	19.5	42.2
4	11400.00	58.4 PK	74.0	-15.6	2.32 H	278	43.5	14.9
5	11400.00	48.5 AV	54.0	-5.5	2.32 H	278	33.6	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	*5700.00	109.5 PK			1.06 V	316	67.5	42.0
2	*5700.00	101.4 AV			1.06 V	316	59.4	42.0
3	#5725.00	67.0 PK	68.2	-1.2	1.06 V	316	24.8	42.2
4	11400.00	59.7 PK	74.0	-14.3	3.25 V	169	44.5	15.2
5	11400.00	49.5 AV	54.0	-4.5	3.25 V	169	34.3	15.2

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5632.40	62.0 PK	68.2	-6.2	2.30 H	131	55.5	6.5
2	*5745.00	109.0 PK			2.30 H	131	66.7	42.3
3	*5745.00	100.8 AV			2.30 H	131	58.5	42.3
4	#5930.80	63.3 PK	68.2	-4.9	2.30 H	131	55.6	7.7
5	11490.00	60.3 PK	74.0	-13.7	1.92 H	80	45.9	14.4
6	11490.00	49.5 AV	54.0	-4.5	1.92 H	80	35.1	14.4
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	#5621.20	61.9 PK	68.2	-6.3	2.23 V	74	55.4	6.5
2	*5745.00	112.8 PK			2.23 V	74	70.5	42.3
3	*5745.00	104.6 AV			2.23 V	74	62.3	42.3
4	#5951.60	62.8 PK	68.2	-5.4	2.23 V	74	55.3	7.5
5	11490.00	60.9 PK	74.0	-13.1	3.26 V	178	46.5	14.4
6	11490.00	49.7 AV	54.0	-4.3	3.26 V	178	35.3	14.4

Remarks:

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

RF Mode	802.11ac (VHT20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5641.60	62.1 PK	68.2	-6.1	2.30 H	131	55.6	6.5
2	*5785.00	109.7 PK			2.30 H	131	67.2	42.5
3	*5785.00	101.5 AV			2.30 H	131	59.0	42.5
4	#5958.80	63.5 PK	68.2	-4.7	2.30 H	131	56.0	7.5
5	11570.00	61.1 PK	74.0	-12.9	1.55 H	320	46.1	15.0
6	11570.00	49.5 AV	54.0	-4.5	1.55 H	320	34.5	15.0
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	#5623.60	62.1 PK	68.2	-6.1	2.23 V	97	55.6	6.5
2	*5785.00	113.2 PK			2.23 V	97	70.7	42.5
3	*5785.00	105.0 AV			2.23 V	97	62.5	42.5
4	#5929.60	62.7 PK	68.2	-5.5	2.23 V	97	55.0	7.7
5	11570.00	61.6 PK	74.0	-12.4	3.30 V	138	46.6	15.0
6	11570.00	49.8 AV	54.0	-4.2	3.30 V	138	34.8	15.0

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 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5621.20	62.5 PK	68.2	-5.7	2.30 H	131	56.0	6.5
2	*5825.00	109.4 PK			2.30 H	131	66.8	42.6
3	*5825.00	101.2 AV			2.30 H	131	58.6	42.6
4	#5972.80	62.9 PK	68.2	-5.3	2.30 H	131	55.4	7.5
5	11650.00	60.6 PK	74.0	-13.4	1.66 H	81	46.0	14.6
6	11650.00	49.3 AV	54.0	-4.7	1.66 H	81	34.7	14.6
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	#5622.40	61.6 PK	68.2	-6.6	2.23 V	97	55.1	6.5
2	*5825.00	113.5 PK			2.23 V	97	70.9	42.6
3	*5825.00	105.3 AV			2.23 V	97	62.7	42.6
4	#5937.20	62.9 PK	68.2	-5.3	2.23 V	97	55.2	7.7
5	11650.00	60.7 PK	74.0	-13.3	2.34 V	196	46.1	14.6
6	11650.00	49.6 AV	54.0	-4.4	2.34 V	196	35.0	14.6

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.2 PK	74.0	-8.8	1.37 H	10	23.5	41.7
2	5150.00	51.1 AV	54.0	-2.9	1.37 H	10	9.4	41.7
3	*5190.00	100.6 PK			1.37 H	10	59.2	41.4
4	*5190.00	92.8 AV			1.37 H	10	51.4	41.4
5	#10380.00	57.7 PK	68.2	-10.5	2.25 H	341	45.4	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	5150.00	67.1 PK	74.0	-6.9	2.63 V	325	25.4	41.7
2	5150.00	52.8 AV	54.0	-1.2	2.63 V	325	11.1	41.7
3	*5190.00	103.1 PK			2.63 V	325	61.7	41.4
4	*5190.00	95.4 AV			2.63 V	325	54.0	41.4
5	#10380.00	58.8 PK	68.2	-9.4	2.54 V	163	46.5	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 (VHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	101.0 PK			1.79 H	340	59.6	41.4
2	*5230.00	93.2 AV			1.79 H	340	51.8	41.4
3	5350.00	60.0 PK	74.0	-14.0	1.79 H	340	54.1	5.9
4	5350.00	50.2 AV	54.0	-3.8	1.79 H	340	44.3	5.9
5	#10460.00	58.7 PK	68.2	-9.5	2.33 H	99	45.9	12.8
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	*5230.00	105.2 PK			1.00 V	66	63.8	41.4
2	*5230.00	97.4 AV			1.00 V	66	56.0	41.4
3	5350.00	60.2 PK	74.0	-13.8	1.00 V	66	54.3	5.9
4	5350.00	50.6 AV	54.0	-3.4	1.00 V	66	44.7	5.9
5	#10460.00	59.0 PK	68.2	-9.2	1.65 V	312	46.2	12.8

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 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.6 PK	74.0	-13.4	1.76 H	343	54.6	6.0
2	5150.00	49.6 AV	54.0	-4.4	1.76 H	343	43.6	6.0
3	*5270.00	103.2 PK			1.76 H	343	61.8	41.4
4	*5270.00	95.2 AV			1.76 H	343	53.8	41.4
5	#10540.00	58.6 PK	68.2	-9.6	2.53 H	169	45.2	13.4
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	60.8 PK	74.0	-13.2	1.02 V	67	54.8	6.0
2	5150.00	50.6 AV	54.0	-3.4	1.02 V	67	44.6	6.0
3	*5270.00	107.7 PK			1.02 V	67	66.3	41.4
4	*5270.00	99.6 AV			1.02 V	67	58.2	41.4
5	#10540.00	59.4 PK	68.2	-8.8	2.34 V	165	46.0	13.4

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 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	101.3 PK			1.36 H	7	60.0	41.3
2	*5310.00	93.3 AV			1.36 H	7	52.0	41.3
3	5350.00	64.3 PK	74.0	-9.7	1.36 H	7	22.9	41.4
4	5350.00	49.8 AV	54.0	-4.2	1.36 H	7	8.4	41.4
5	10620.00	58.6 PK	74.0	-15.4	3.74 H	187	45.3	13.3
6	10620.00	48.7 AV	54.0	-5.3	3.74 H	187	35.4	13.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	103.7 PK			1.00 V	318	62.4	41.3
2	*5310.00	95.8 AV			1.00 V	318	54.5	41.3
3	5350.00	67.7 PK	74.0	-6.3	1.00 V	318	26.3	41.4
4	5350.00	52.8 AV	54.0	-1.2	1.00 V	318	11.4	41.4
5	10620.00	59.8 PK	74.0	-14.2	3.32 V	174	46.5	13.3
6	10620.00	49.5 AV	54.0	-4.5	3.32 V	174	36.2	13.3

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.

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 (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.1 PK	74.0	-14.9	1.47 H	2	17.4	41.7
2	5460.00	47.5 AV	54.0	-6.5	1.47 H	2	5.8	41.7
3	#5470.00	61.6 PK	68.2	-6.6	1.47 H	2	19.9	41.7
4	*5510.00	99.5 PK			1.47 H	2	57.8	41.7
5	*5510.00	91.5 AV			1.47 H	2	49.8	41.7
6	11020.00	58.3 PK	74.0	-15.7	3.25 H	256	43.6	14.7
7	11020.00	48.1 AV	54.0	-5.9	3.25 H	256	33.4	14.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.4 PK	74.0	-9.6	2.85 V	320	22.7	41.7
2	5460.00	52.3 AV	54.0	-1.7	2.85 V	320	10.6	41.7
3	#5470.00	67.0 PK	68.2	-1.2	2.85 V	320	25.3	41.7
4	*5510.00	104.8 PK			2.85 V	320	63.1	41.7
5	*5510.00	96.6 AV			2.85 V	320	54.9	41.7
6	11020.00	60.0 PK	74.0	-14.0	2.52 V	165	45.3	14.7
7	11020.00	50.0 AV	54.0	-4.0	2.52 V	165	35.3	14.7

Remarks:

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

RF Mode	802.11ac (VHT40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.8 PK	74.0	-14.2	1.16 H	17	18.1	41.7
2	5460.00	47.0 AV	54.0	-7.0	1.16 H	17	5.3	41.7
3	#5470.00	61.1 PK	68.2	-7.1	1.16 H	17	19.4	41.7
4	*5550.00	104.2 PK			1.16 H	17	62.4	41.8
5	*5550.00	96.7 AV			1.16 H	17	54.9	41.8
6	11100.00	59.4 PK	74.0	-14.6	3.41 H	158	45.4	14.0
7	11100.00	49.4 AV	54.0	-4.6	3.41 H	158	35.4	14.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.3 PK	74.0	-9.7	1.04 V	318	22.6	41.7
2	5460.00	52.4 AV	54.0	-1.6	1.04 V	318	10.7	41.7
3	#5470.00	65.9 PK	68.2	-2.3	1.04 V	318	24.2	41.7
4	*5550.00	110.7 PK			1.04 V	318	68.9	41.8
5	*5550.00	102.8 AV			1.04 V	318	61.0	41.8
6	11100.00	60.3 PK	74.0	-13.7	2.57 V	331	46.3	14.0
7	11100.00	49.8 AV	54.0	-4.2	2.57 V	331	35.8	14.0

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 (VHT40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	102.3 PK			1.54 H	2	60.3	42.0
2	*5670.00	94.5 AV			1.54 H	2	52.5	42.0
3	#5725.00	62.3 PK	68.2	-5.9	1.54 H	2	20.1	42.2
4	11340.00	58.5 PK	74.0	-15.5	2.63 H	227	43.4	15.1
5	11340.00	48.8 AV	54.0	-5.2	2.63 H	227	33.7	15.1
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	*5670.00	108.0 PK			1.00 V	321	66.0	42.0
2	*5670.00	100.1 AV			1.00 V	321	58.1	42.0
3	#5725.00	67.2 PK	68.2	-1.0	1.00 V	321	25.0	42.2
4	11340.00	59.4 PK	74.0	-14.6	1.63 V	227	44.3	15.1
5	11340.00	49.2 AV	54.0	-4.8	1.63 V	227	34.1	15.1

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 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.80	62.9 PK	68.2	-5.3	1.53 H	132	56.4	6.5
2	*5755.00	105.0 PK			1.53 H	132	62.7	42.3
3	*5755.00	97.1 AV			1.53 H	132	54.8	42.3
4	#5969.60	61.0 PK	68.2	-7.2	1.53 H	132	53.5	7.5
5	11510.00	58.8 PK	74.0	-15.2	2.39 H	163	44.3	14.5
6	11510.00	48.7 AV	54.0	-5.3	2.39 H	163	34.2	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	#5635.20	64.0 PK	68.2	-4.2	2.66 V	82	57.5	6.5
2	*5755.00	110.7 PK			2.66 V	82	68.4	42.3
3	*5755.00	102.6 AV			2.66 V	82	60.3	42.3
4	#5927.20	60.9 PK	68.2	-7.3	2.66 V	82	53.2	7.7
5	11510.00	59.8 PK	74.0	-14.2	2.52 V	168	45.3	14.5
6	11510.00	49.8 AV	54.0	-4.2	2.52 V	168	35.3	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.

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 (AV) RB = 1 MHz, VB = 2 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5632.80	61.6 PK	68.2	-6.6	1.47 H	138	55.1	6.5
2	*5795.00	104.5 PK			1.47 H	138	62.0	42.5
3	*5795.00	96.2 AV			1.47 H	138	53.7	42.5
4	#5938.80	61.7 PK	68.2	-6.5	1.47 H	138	54.0	7.7
5	11590.00	59.3 PK	74.0	-14.7	2.78 H	103	44.2	15.1
6	11590.00	49.2 AV	54.0	-4.8	2.78 H	103	34.1	15.1
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	#5646.40	62.0 PK	68.2	-6.2	2.64 V	100	55.5	6.5
2	*5795.00	111.4 PK			2.64 V	100	68.9	42.5
3	*5795.00	103.2 AV			2.64 V	100	60.7	42.5
4	#5925.60	63.3 PK	68.2	-4.9	2.64 V	100	55.6	7.7
5	11590.00	60.3 PK	74.0	-13.7	3.25 V	155	45.2	15.1
6	11590.00	50.0 AV	54.0	-4.0	3.25 V	155	34.9	15.1

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 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.5 PK	74.0	-12.5	1.35 H	9	19.8	41.7
2	5150.00	52.2 AV	54.0	-1.8	1.35 H	9	10.5	41.7
3	*5210.00	97.0 PK			1.35 H	9	55.5	41.5
4	*5210.00	88.6 AV			1.35 H	9	47.1	41.5
5	#10420.00	57.7 PK	68.2	-10.5	2.57 H	166	45.2	12.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.0 PK	74.0	-11.0	1.06 V	320	21.3	41.7
2	5150.00	52.9 AV	54.0	-1.1	1.06 V	320	11.2	41.7
3	*5210.00	99.3 PK			1.06 V	320	57.8	41.5
4	*5210.00	91.2 AV			1.06 V	320	49.7	41.5
5	#10420.00	59.0 PK	68.2	-9.2	1.63 V	274	46.5	12.5

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 (VHT80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	96.7 PK			1.33 H	6	55.3	41.4
2	*5290.00	88.5 AV			1.33 H	6	47.1	41.4
3	5350.00	62.4 PK	74.0	-11.6	1.33 H	6	21.0	41.4
4	5350.00	49.6 AV	54.0	-4.4	1.33 H	6	8.2	41.4
5	#10580.00	57.8 PK	68.2	-10.4	2.27 H	174	44.5	13.3
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	*5290.00	100.2 PK			1.00 V	319	58.8	41.4
2	*5290.00	91.6 AV			1.00 V	319	50.2	41.4
3	5350.00	63.2 PK	74.0	-10.8	1.00 V	319	21.8	41.4
4	5350.00	53.0 AV	54.0	-1.0	1.00 V	319	11.6	41.4
5	#10580.00	59.0 PK	68.2	-9.2	3.21 V	157	45.7	13.3

Remarks:

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

RF Mode	802.11ac (VHT80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.2 PK	74.0	-14.8	1.59 H	5	17.5	41.7
2	5460.00	49.4 AV	54.0	-4.6	1.59 H	5	7.7	41.7
3	#5470.00	60.3 PK	68.2	-7.9	1.59 H	5	18.6	41.7
4	*5530.00	95.2 PK			1.59 H	5	53.5	41.7
5	*5530.00	86.6 AV			1.59 H	5	44.9	41.7
6	11060.00	58.7 PK	74.0	-15.3	2.41 H	116	44.4	14.3
7	11060.00	48.5 AV	54.0	-5.5	2.41 H	116	34.2	14.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.7 PK	74.0	-13.3	1.00 V	318	19.0	41.7
2	5460.00	53.0 AV	54.0	-1.0	1.00 V	318	11.3	41.7
3	#5470.00	64.9 PK	68.2	-3.3	1.00 V	318	23.2	41.7
4	*5530.00	100.4 PK			1.00 V	318	58.7	41.7
5	*5530.00	92.4 AV			1.00 V	318	50.7	41.7
6	11060.00	59.8 PK	74.0	-14.2	2.47 V	168	45.5	14.3
7	11060.00	49.5 AV	54.0	-4.5	2.47 V	168	35.2	14.3

Remarks:

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

RF Mode	802.11ac (VHT80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.5 PK	74.0	-17.5	1.58 H	2	14.8	41.7
2	5460.00	46.6 AV	54.0	-7.4	1.58 H	2	4.9	41.7
3	#5470.00	57.0 PK	68.2	-11.2	1.58 H	2	15.3	41.7
4	*5610.00	100.8 PK			1.58 H	2	58.9	41.9
5	*5610.00	92.6 AV			1.58 H	2	50.7	41.9
6	11220.00	58.4 PK	74.0	-15.6	3.41 H	152	43.5	14.9
7	11220.00	48.8 AV	54.0	-5.2	3.41 H	152	33.9	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	60.3 PK	74.0	-13.7	1.00 V	317	18.6	41.7
2	5460.00	50.9 AV	54.0	-3.1	1.00 V	317	9.2	41.7
3	#5470.00	61.8 PK	68.2	-6.4	1.00 V	317	20.1	41.7
4	*5610.00	107.2 PK			1.00 V	317	65.3	41.9
5	*5610.00	99.1 AV			1.00 V	317	57.2	41.9
6	#5725.00	67.0 PK	68.2	-1.2	1.00 V	317	24.8	42.2
7	11220.00	59.6 PK	74.0	-14.4	2.52 V	107	44.7	14.9
8	11220.00	49.7 AV	54.0	-4.3	2.52 V	107	34.8	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 (VHT80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 3 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22.7°C, 67.2% RH
Tested By	Vincent Chen		

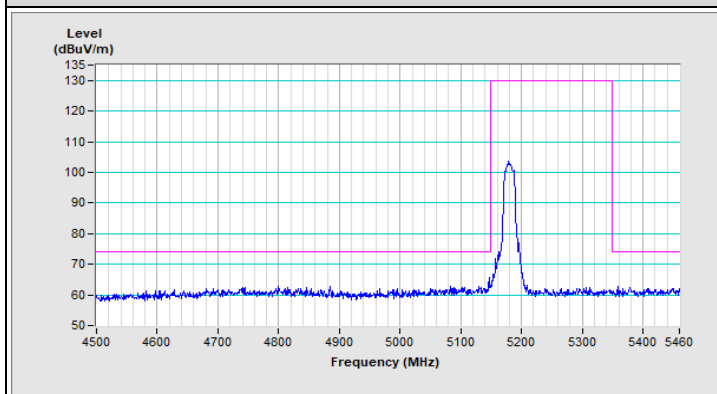
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.00	60.4 PK	68.2	-7.8	1.47 H	2	18.4	42.0
2	*5775.00	103.4 PK			1.47 H	2	61.0	42.4
3	*5775.00	95.2 AV			1.47 H	2	52.8	42.4
4	#5924.80	58.8 PK	68.3	-9.5	1.47 H	2	15.7	43.1
5	11550.00	59.3 PK	74.0	-14.7	3.25 H	184	43.5	15.8
6	11550.00	49.6 AV	54.0	-4.4	3.25 H	184	33.8	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	#5650.00	67.1 PK	68.2	-1.1	1.00 V	316	25.1	42.0
2	*5775.00	108.9 PK			1.00 V	316	66.5	42.4
3	*5775.00	100.9 AV			1.00 V	316	58.5	42.4
4	#5941.20	62.3 PK	68.2	-5.9	1.00 V	316	19.3	43.0
5	11550.00	60.1 PK	74.0	-13.9	3.25 V	166	44.3	15.8
6	11550.00	49.8 AV	54.0	-4.2	3.25 V	166	34.0	15.8

Remarks:

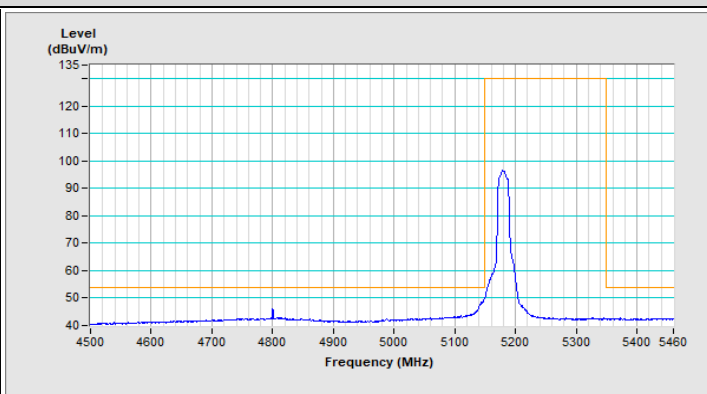
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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

Plot of Band Edge

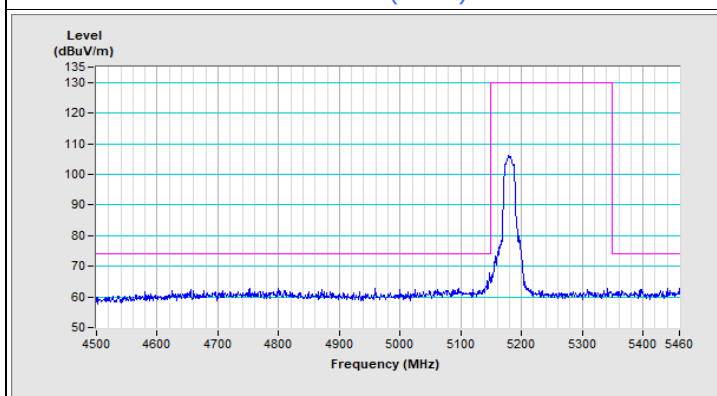
802.11a Channel 36



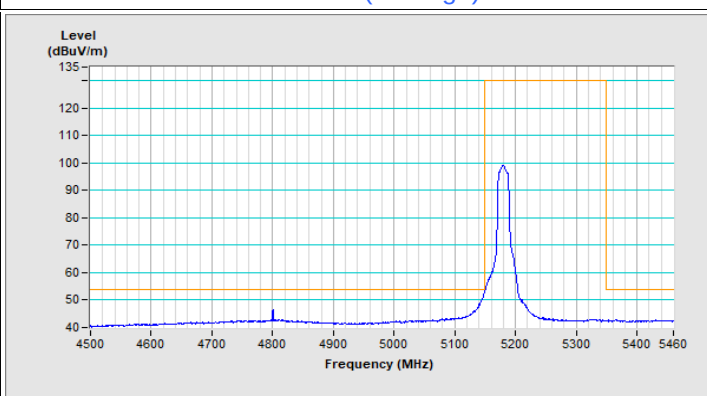
Horizontal (Peak)



Horizontal (Average)

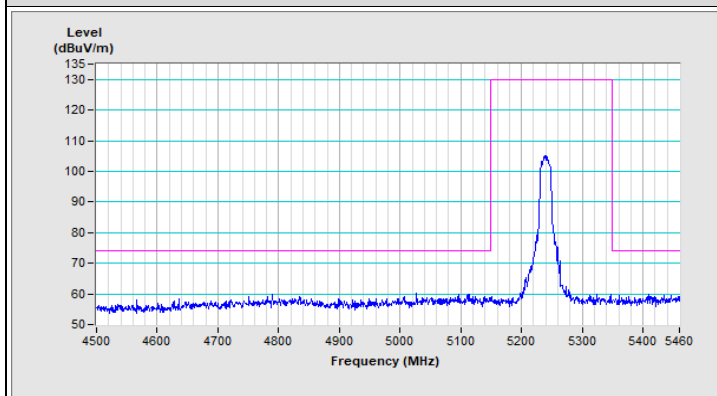


Vertical (Peak)

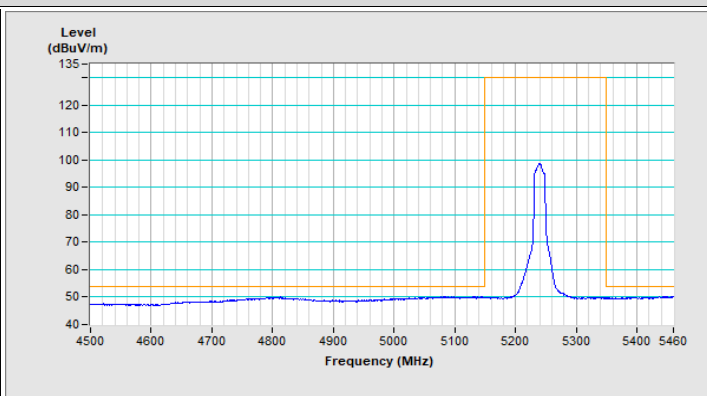


Vertical (Average)

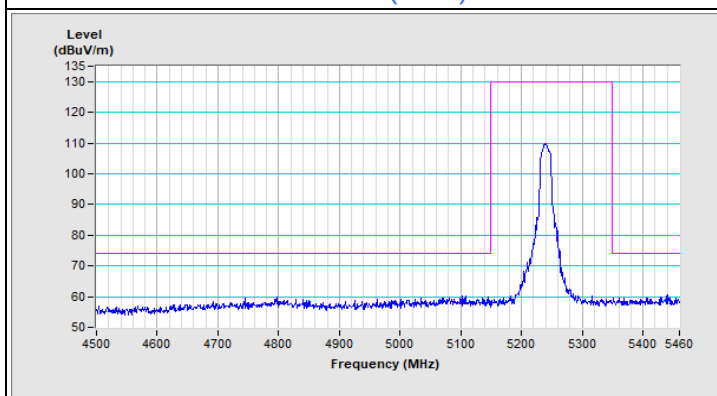
802.11a Channel 48



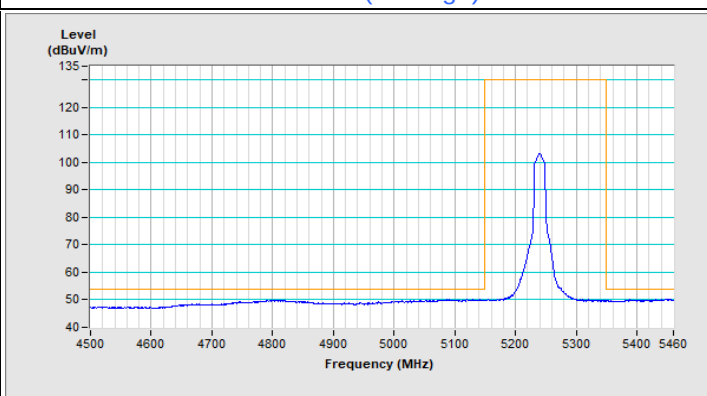
Horizontal (Peak)



Horizontal (Average)

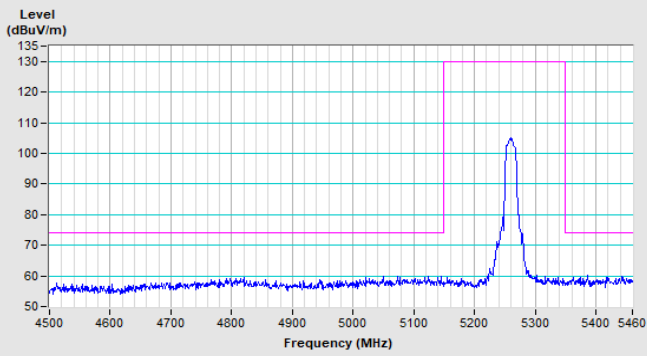


Vertical (Peak)

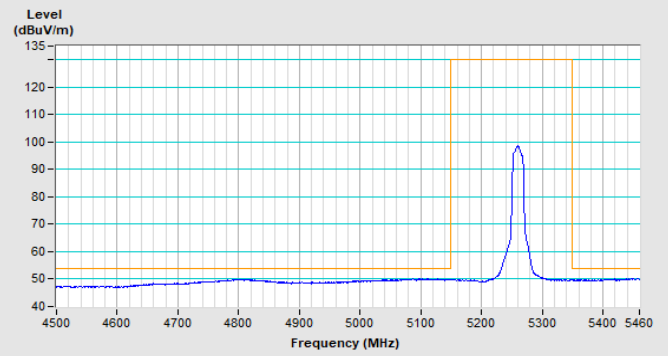


Vertical (Average)

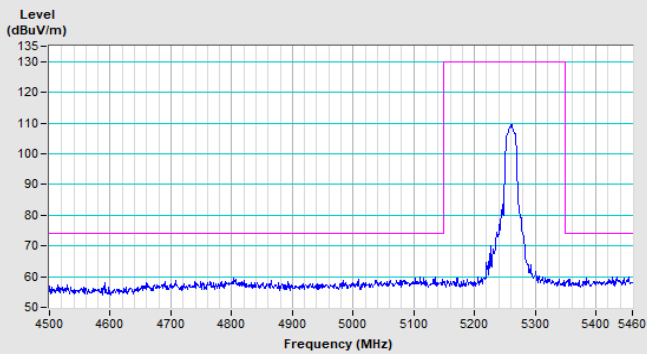
802.11a Channel 52



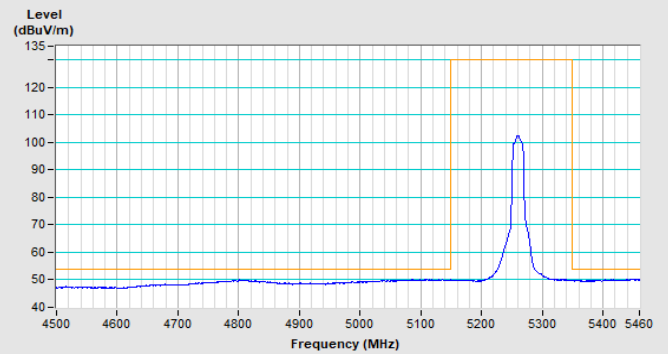
Horizontal (Peak)



Horizontal (Average)

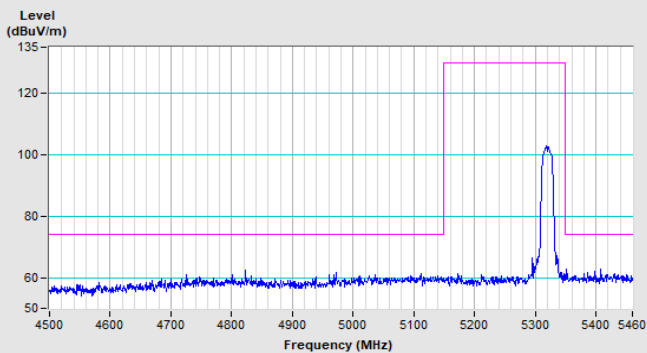


Vertical (Peak)

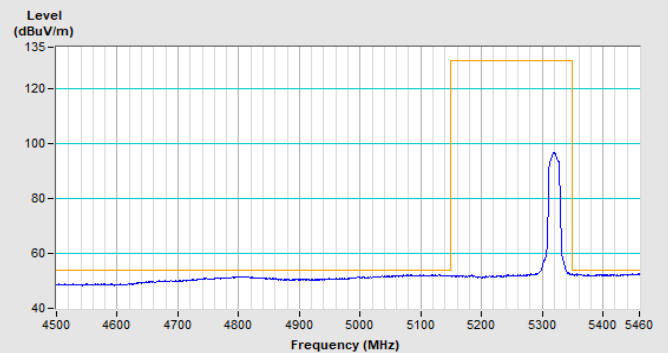


Vertical (Average)

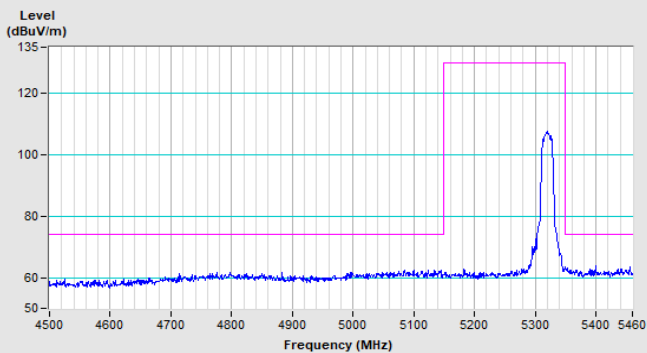
802.11a Channel 64



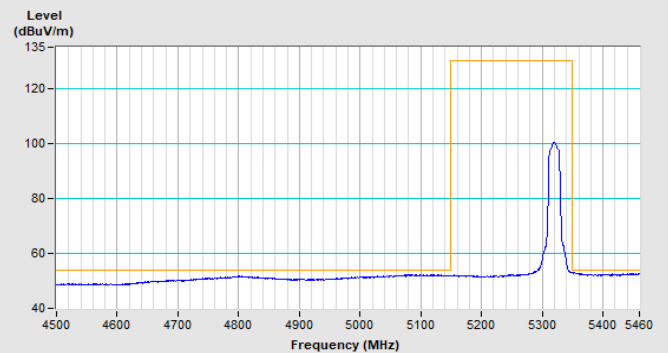
Horizontal (Peak)



Horizontal (Average)

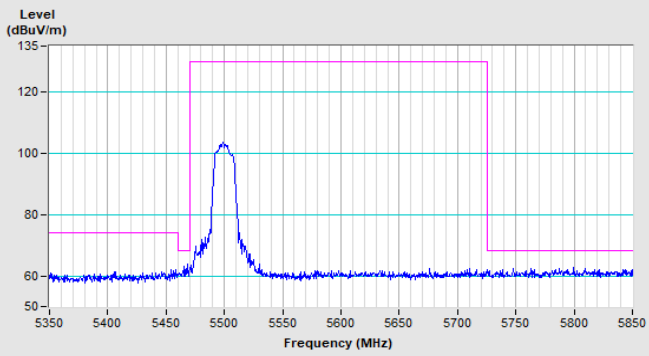


Vertical (Peak)

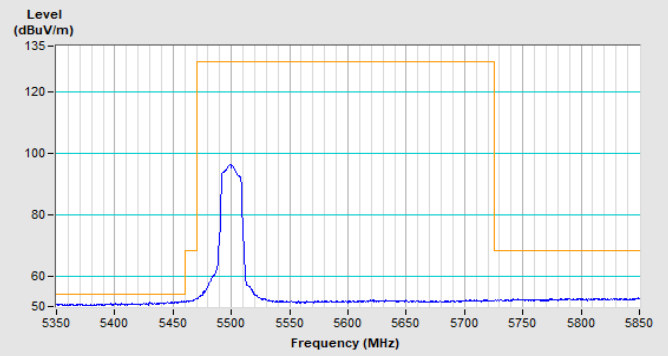


Vertical (Average)

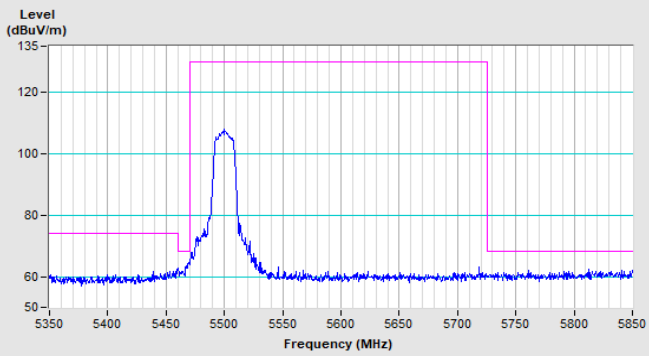
802.11a Channel 100



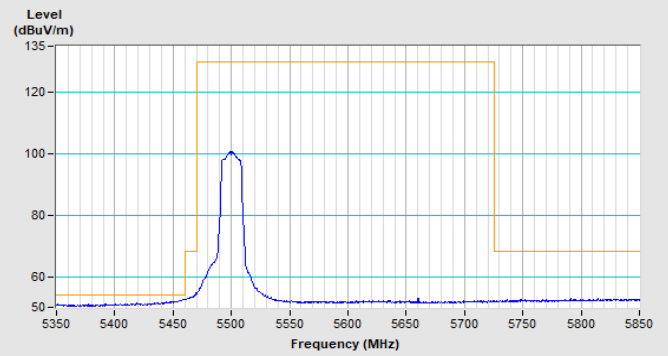
Horizontal (Peak)



Horizontal (Average)

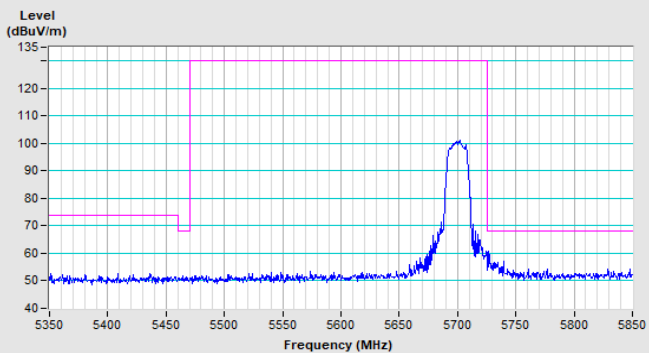


Vertical (Peak)

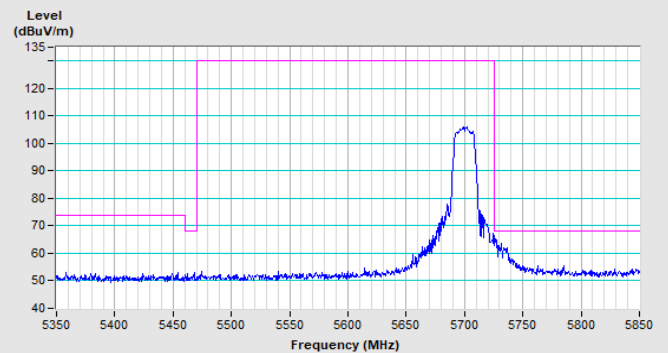


Vertical (Average)

802.11a Channel 140

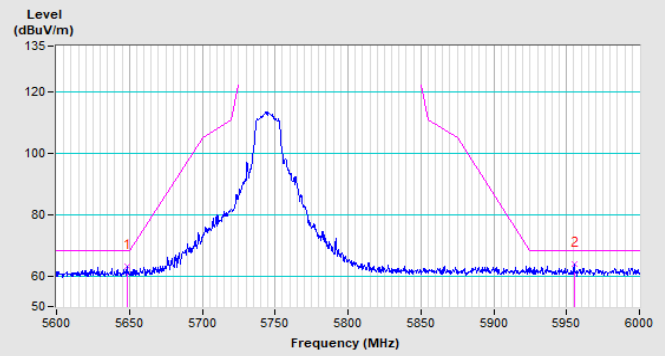
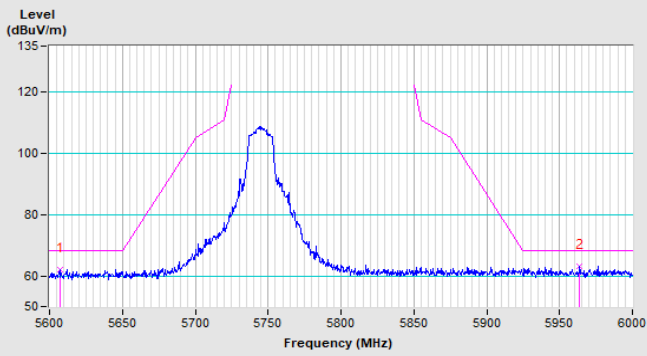


Horizontal (Peak)

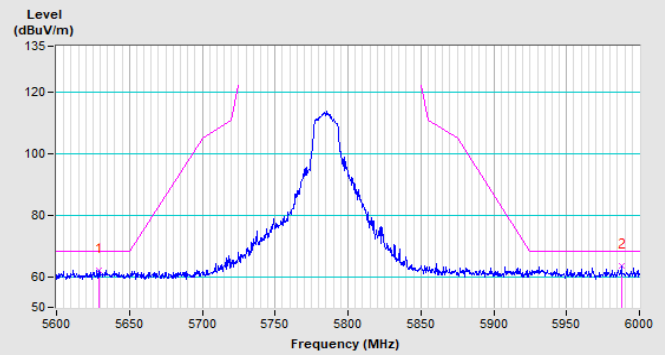
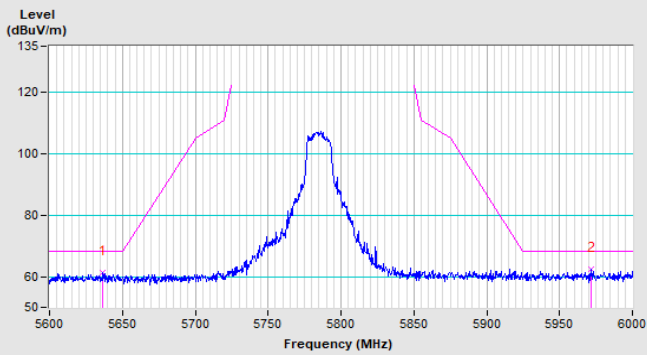


Vertical (Peak)

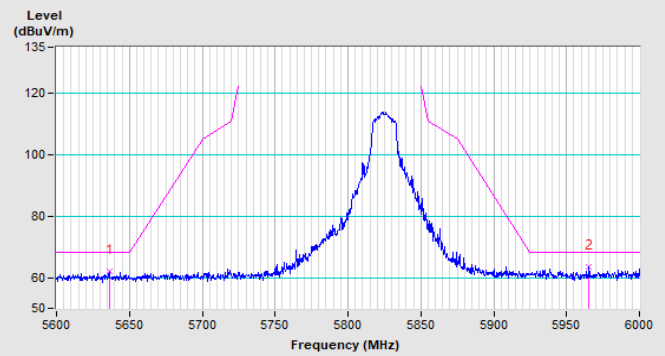
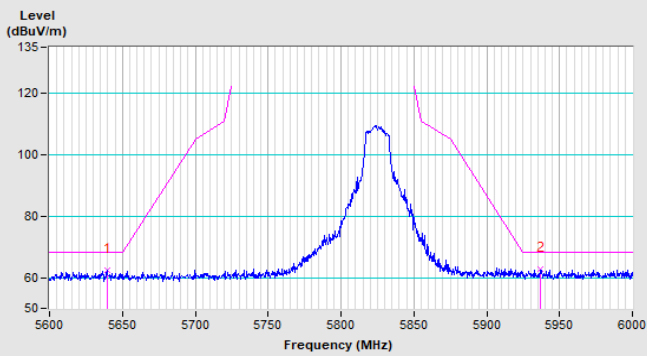
802.11a Channel 149



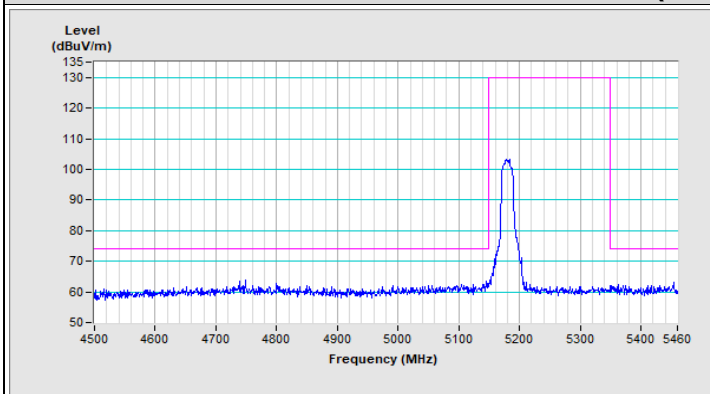
802.11a Channel 157



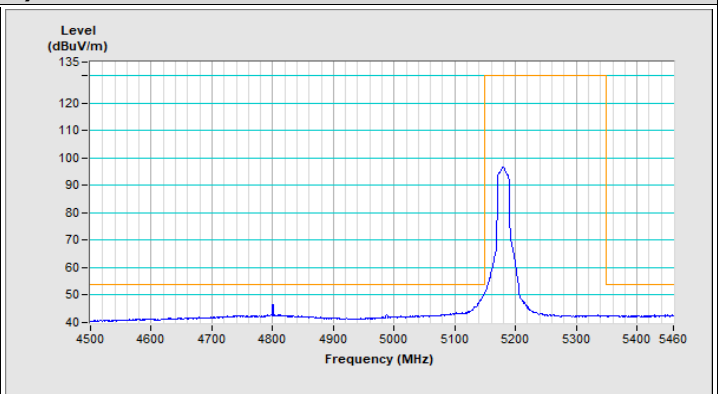
802.11a Channel 165



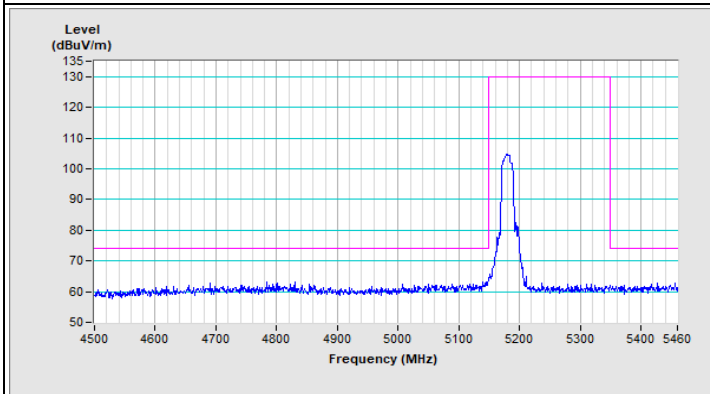
802.11ac (VHT20) Channel 36



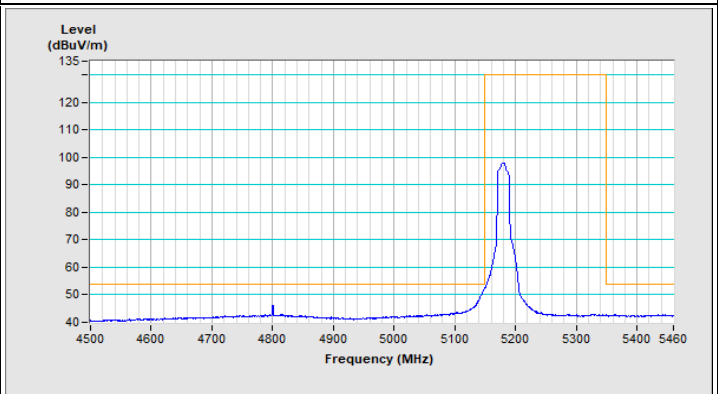
Horizontal (Peak)



Horizontal (Average)

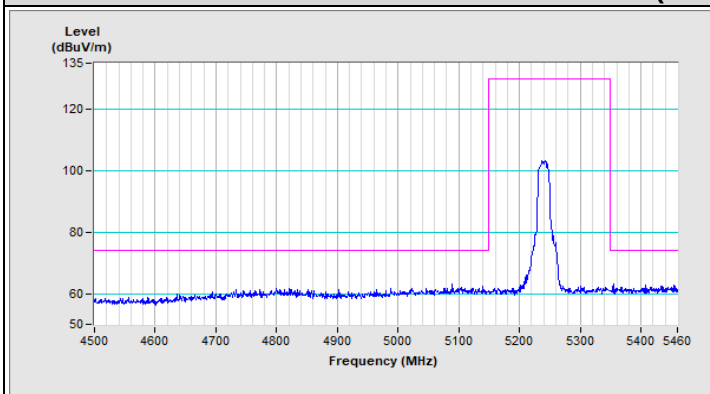


Vertical (Peak)

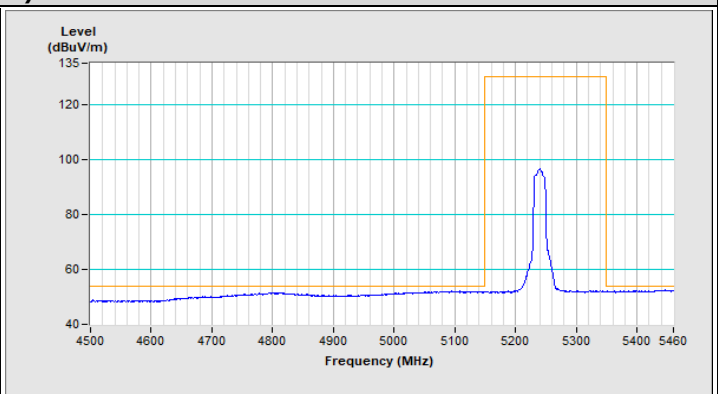


Vertical (Average)

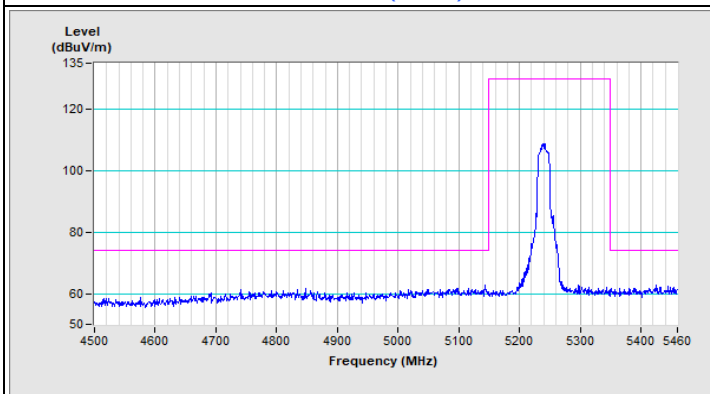
802.11ac (VHT20) Channel 48



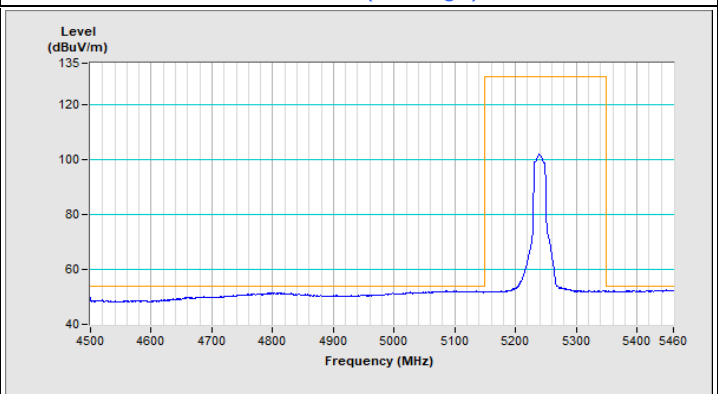
Horizontal (Peak)



Horizontal (Average)

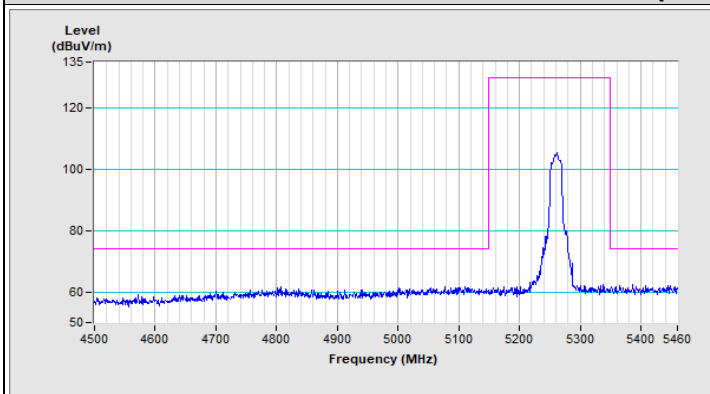


Vertical (Peak)

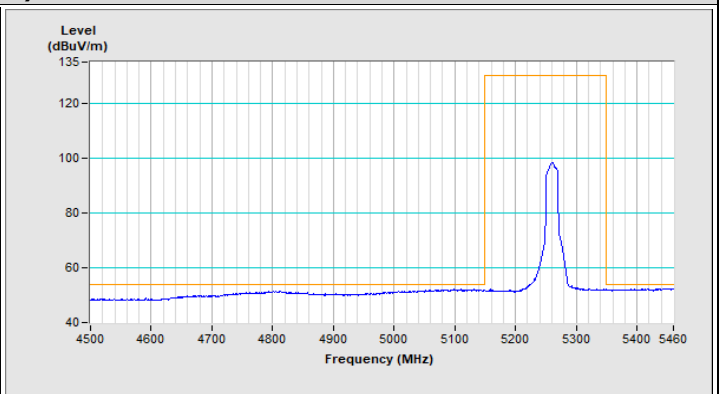


Vertical (Average)

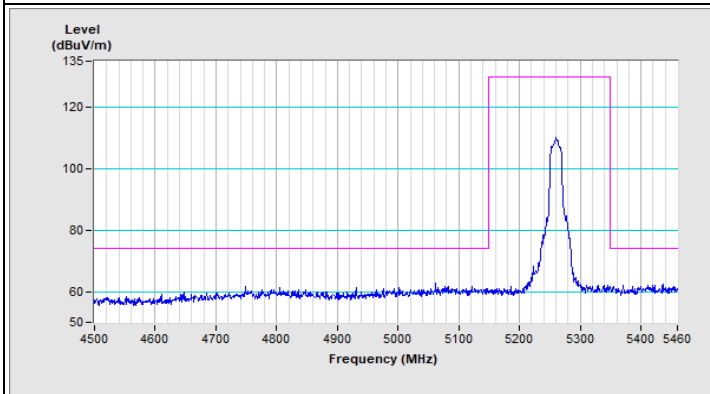
802.11ac (VHT20) Channel 52



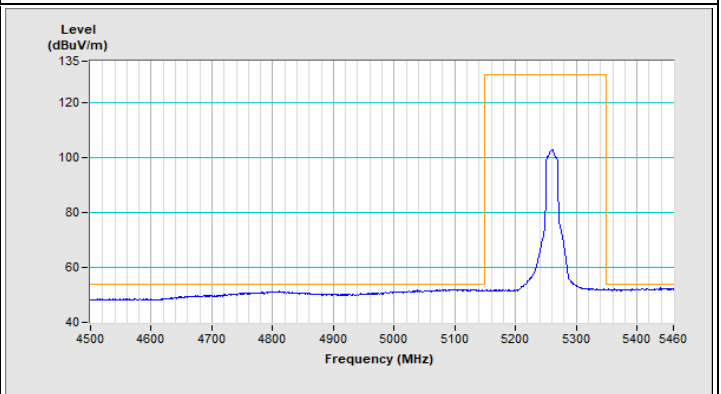
Horizontal (Peak)



Horizontal (Average)

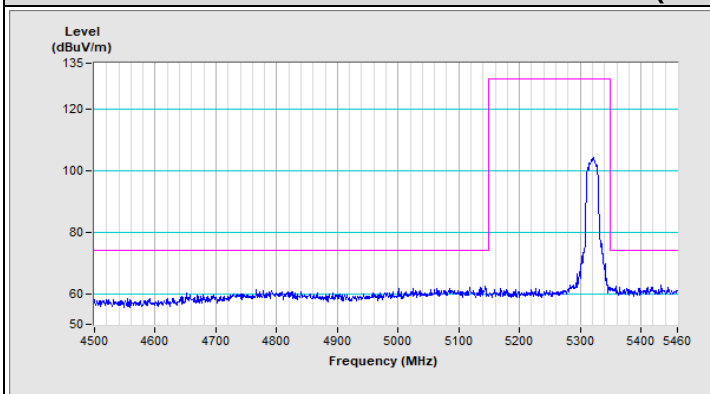


Vertical (Peak)

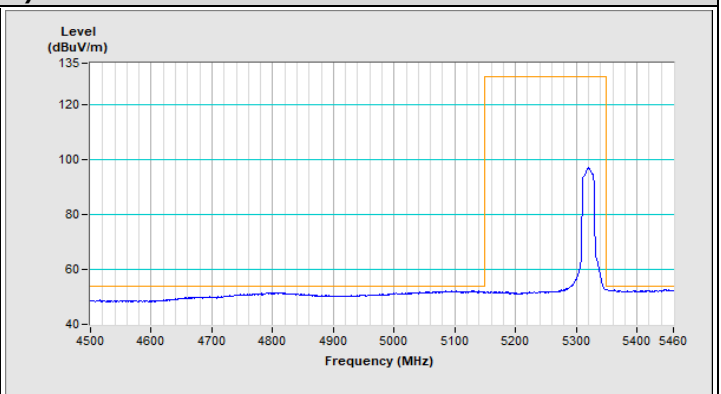


Vertical (Average)

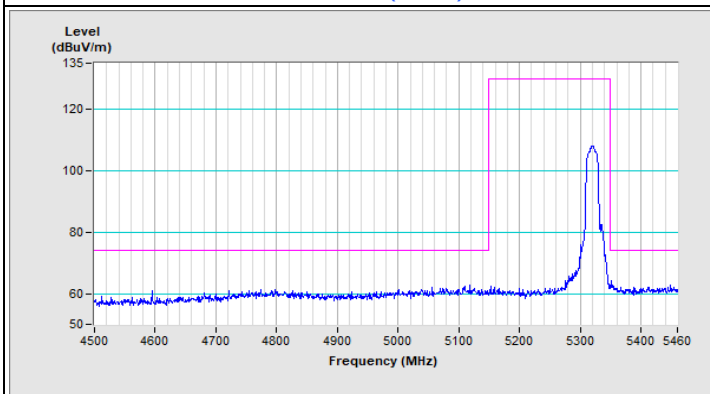
802.11ac (VHT20) Channel 64



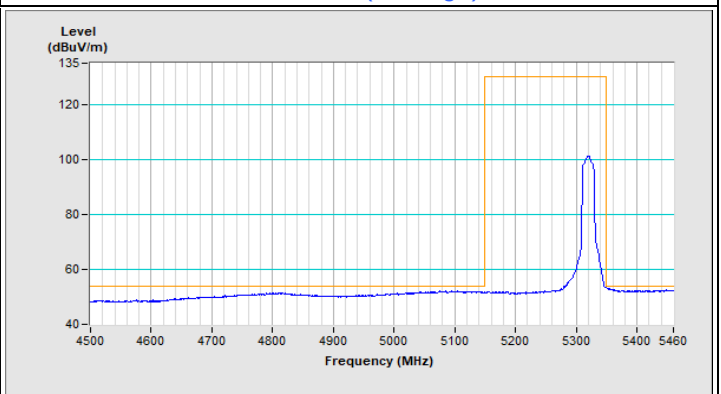
Horizontal (Peak)



Horizontal (Average)

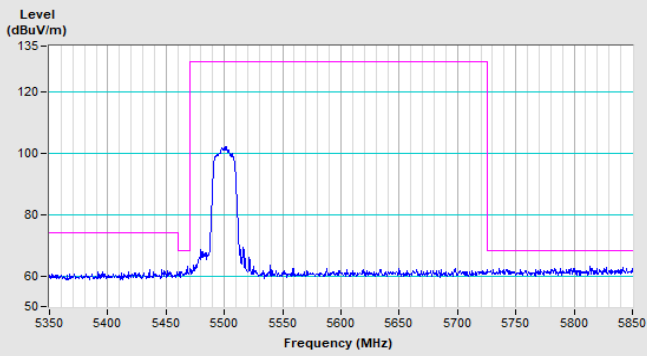


Vertical (Peak)

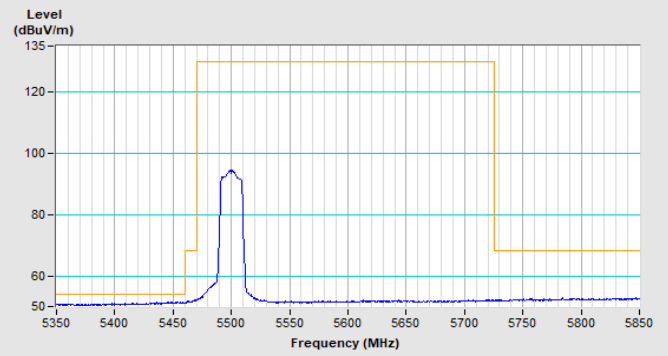


Vertical (Average)

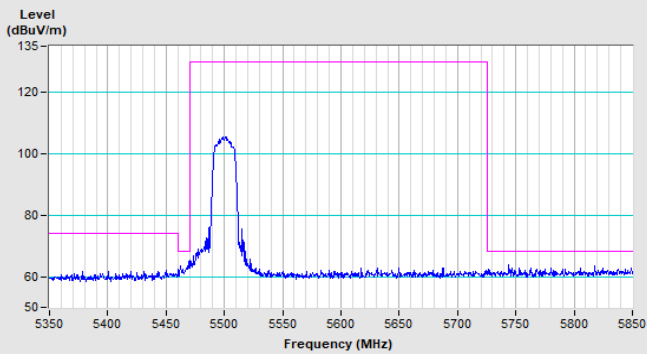
802.11ac (VHT20) Channel 100



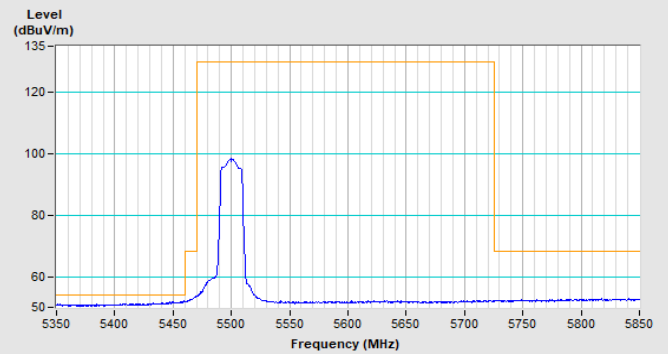
Horizontal (Peak)



Horizontal (Average)

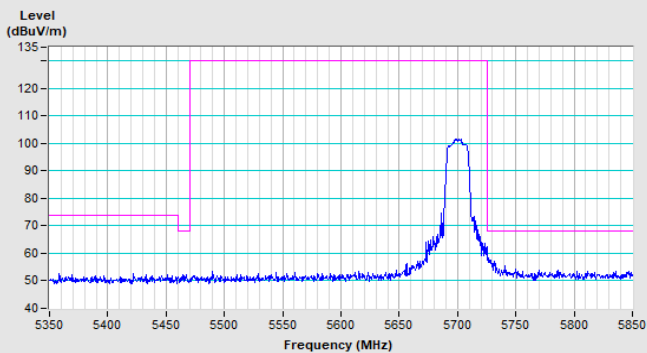


Vertical (Peak)

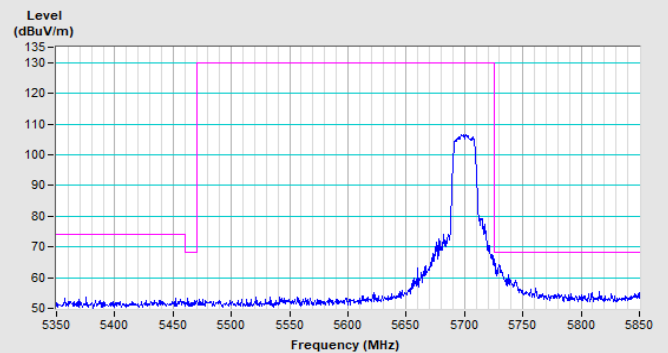


Vertical (Average)

802.11ac (VHT20) Channel 140

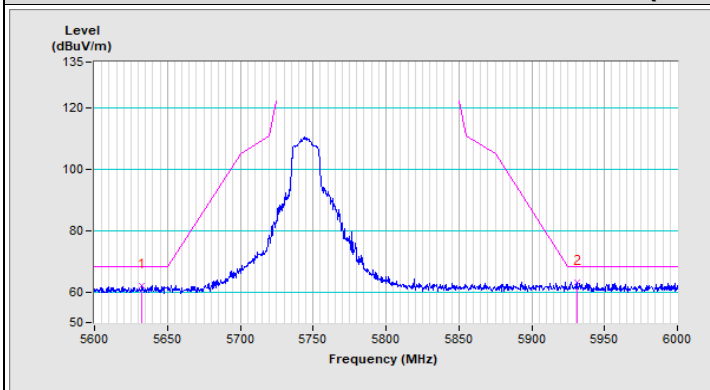


Horizontal (Peak)

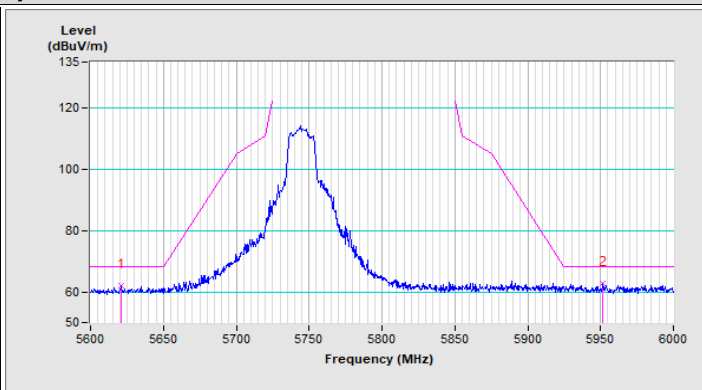


Vertical (Peak)

802.11ac (VHT20) Channel 149

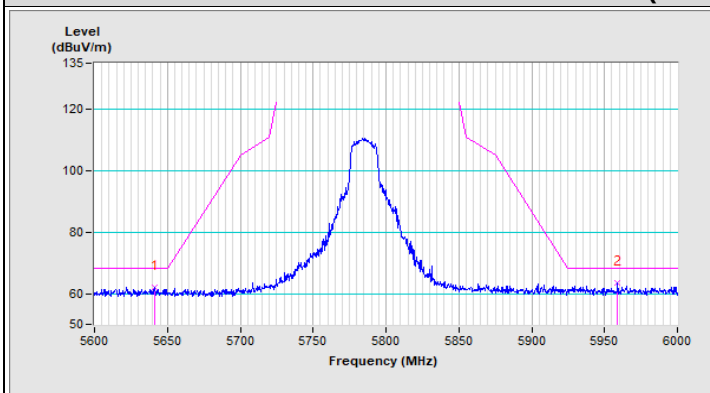


Horizontal (Peak)

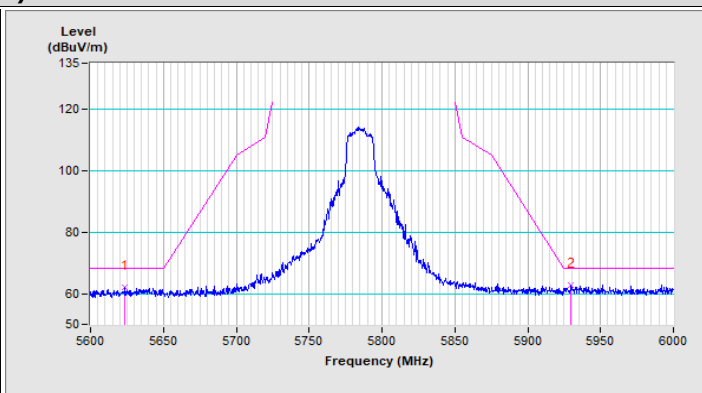


Vertical (Peak)

802.11ac (VHT20) Channel 157

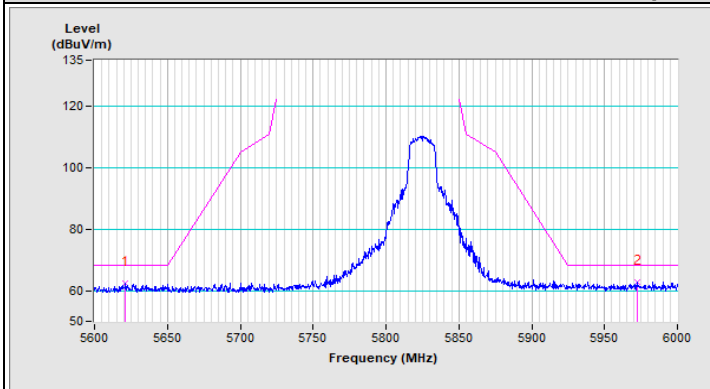


Horizontal (Peak)

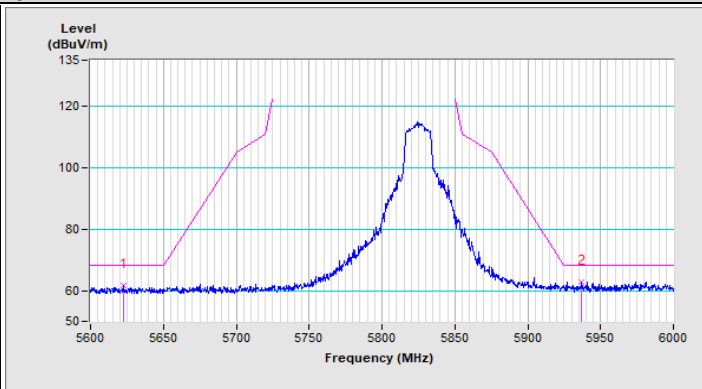


Vertical (Peak)

802.11ac (VHT20) Channel 165

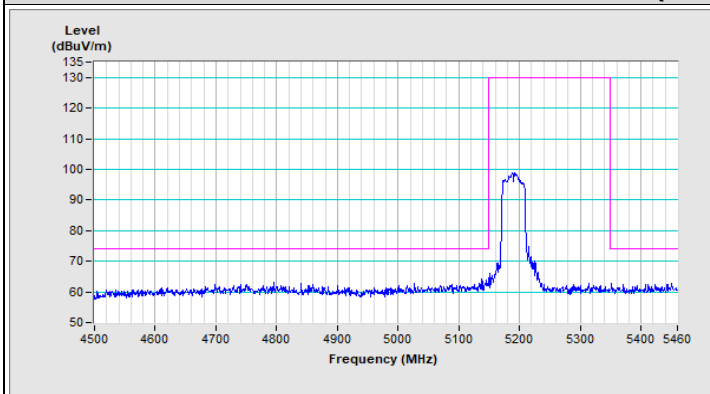


Horizontal (Peak)

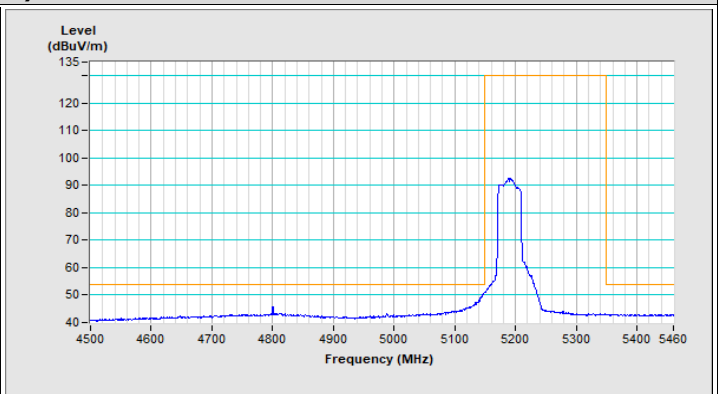


Vertical (Peak)

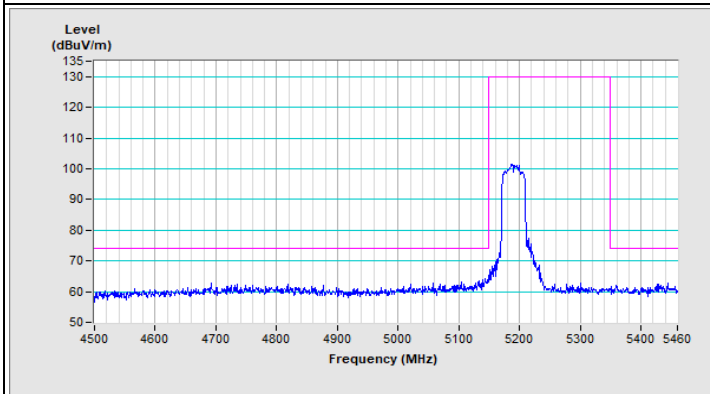
802.11ac (VHT40) Channel 38



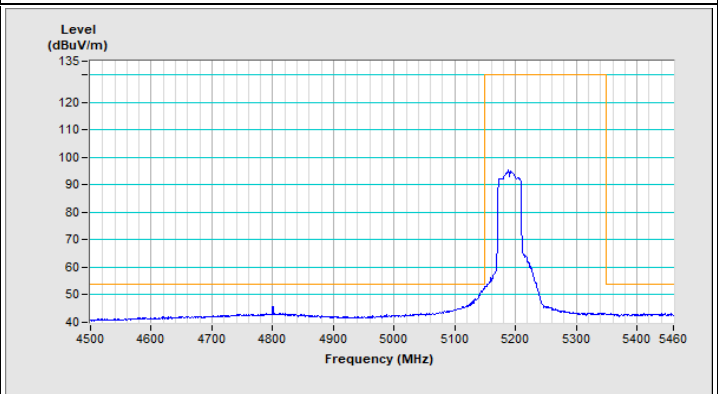
Horizontal (Peak)



Horizontal (Average)

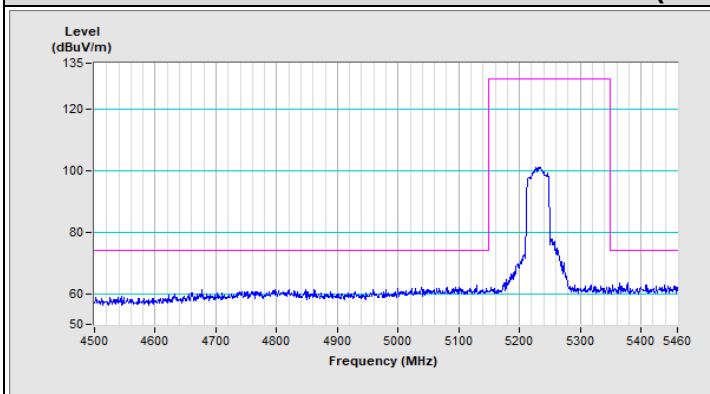


Vertical (Peak)

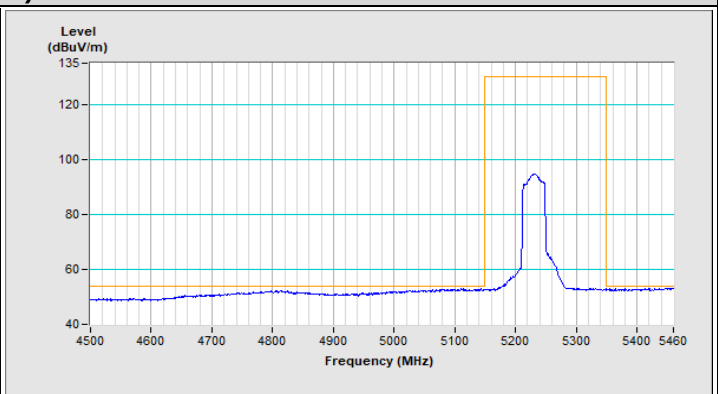


Vertical (Average)

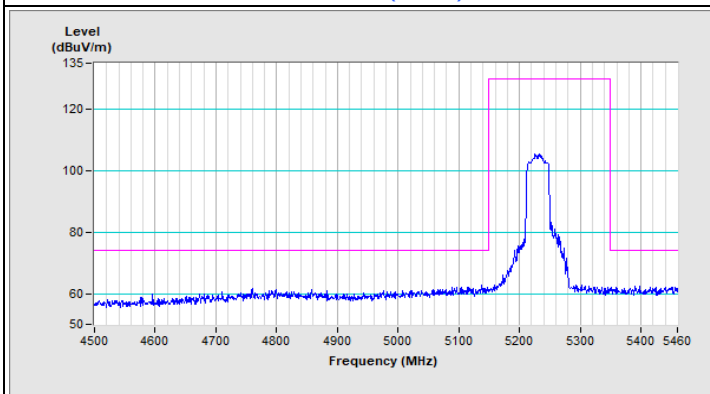
802.11ac (VHT40) Channel 46



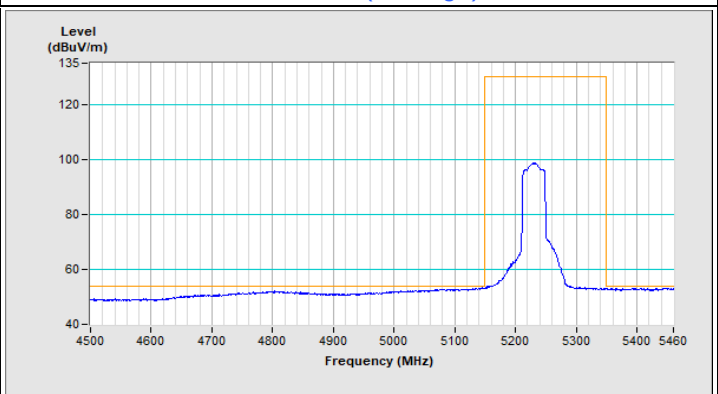
Horizontal (Peak)



Horizontal (Average)

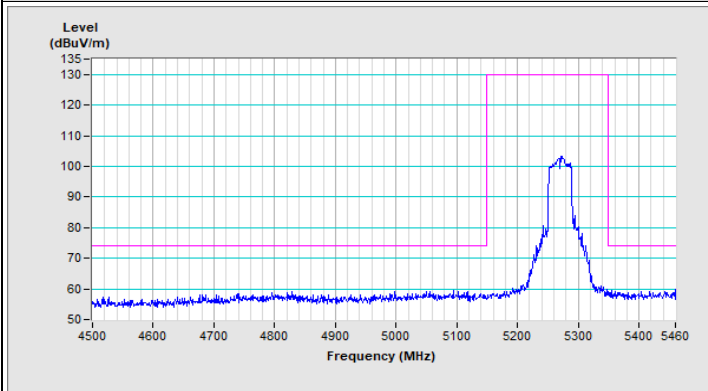


Vertical (Peak)

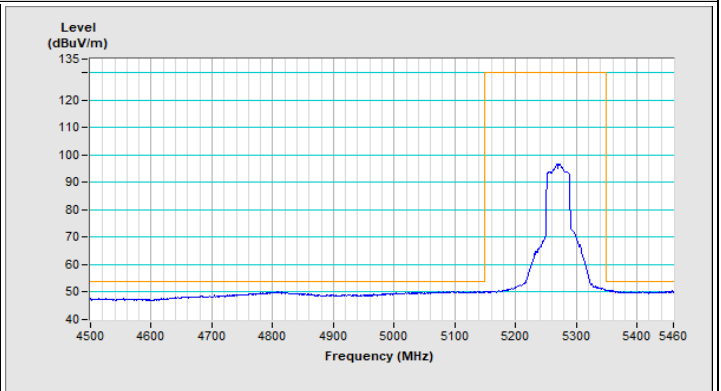


Vertical (Average)

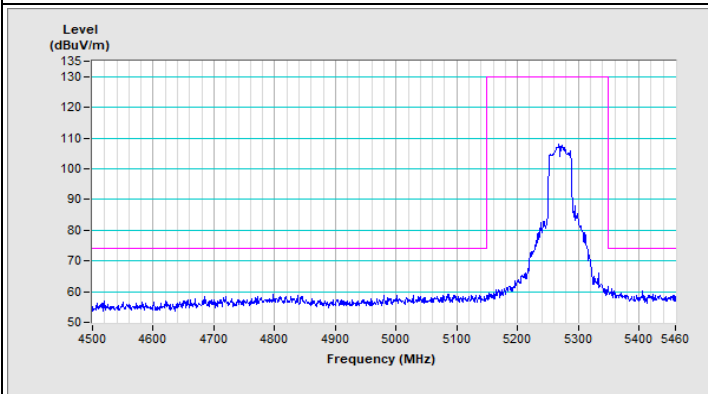
802.11ac (VHT40) Channel 54



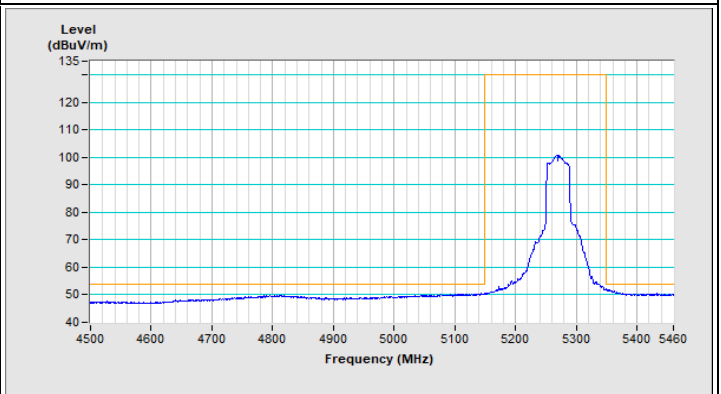
Horizontal (Peak)



Horizontal (Average)

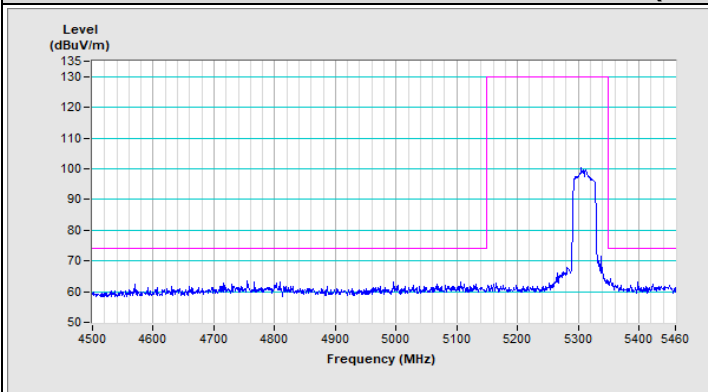


Vertical (Peak)

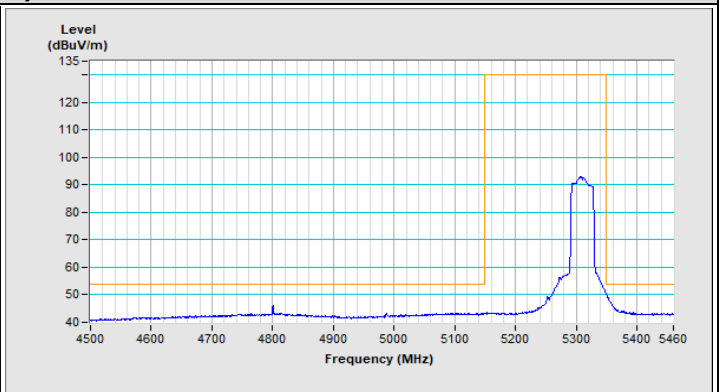


Vertical (Average)

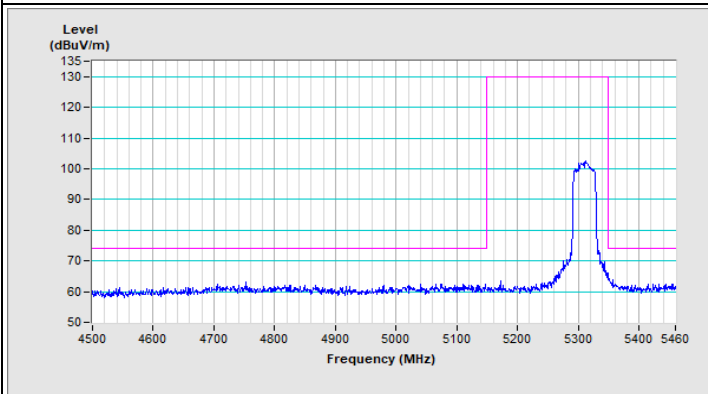
802.11ac (VHT40) Channel 62



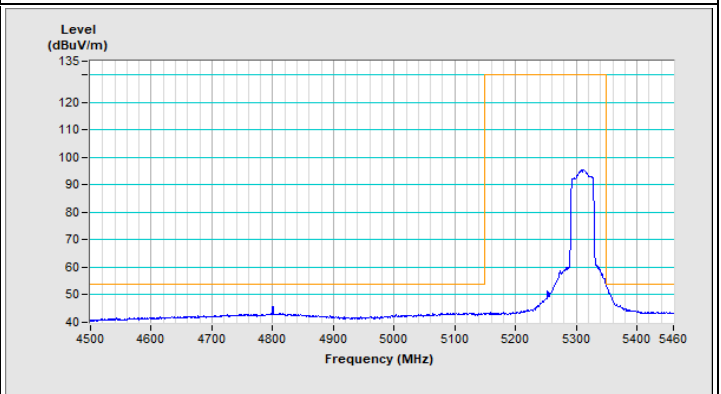
Horizontal (Peak)



Horizontal (Average)

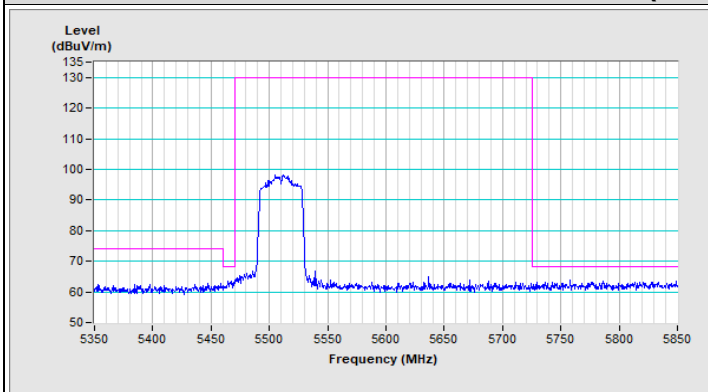


Vertical (Peak)

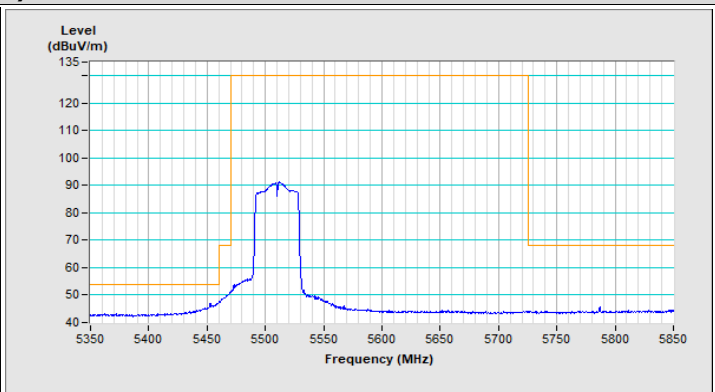


Vertical (Average)

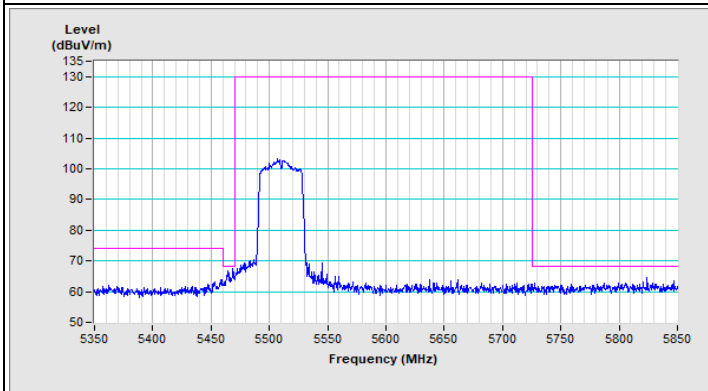
802.11ac (VHT40) Channel 102



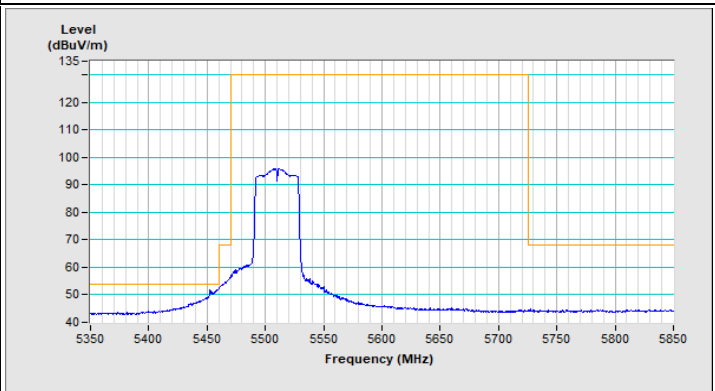
Horizontal (Peak)



Horizontal (Average)

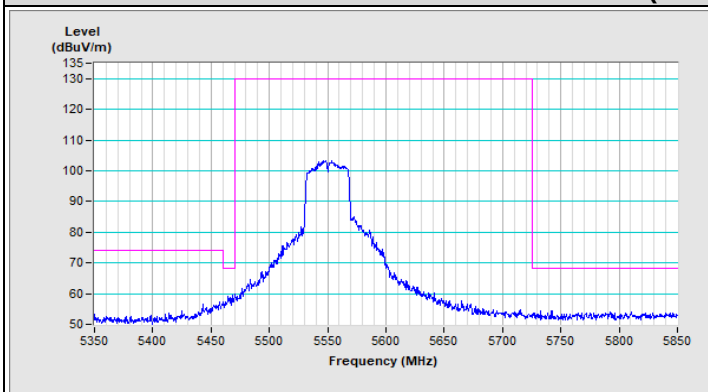


Vertical (Peak)

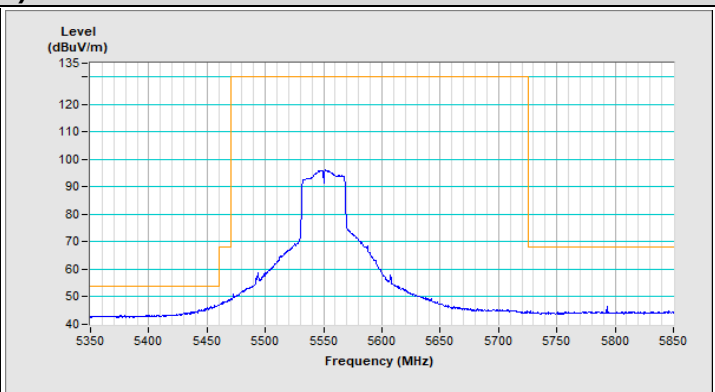


Vertical (Average)

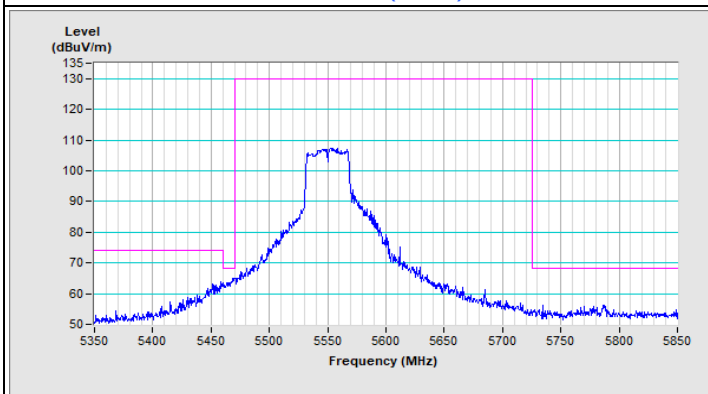
802.11ac (VHT40) Channel 110



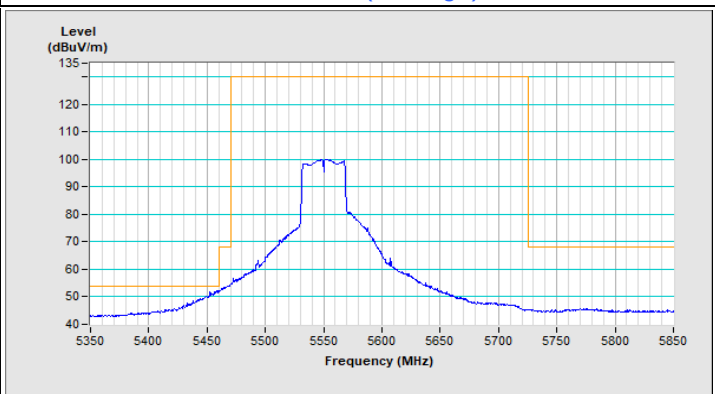
Horizontal (Peak)



Horizontal (Average)

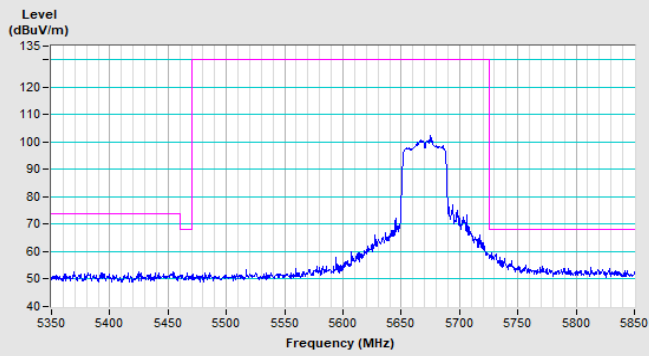


Vertical (Peak)

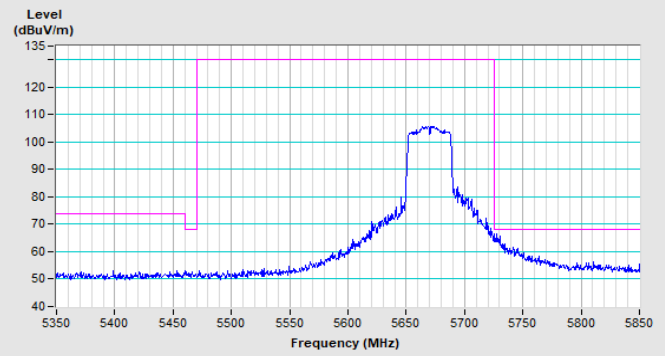


Vertical (Average)

802.11ac (VHT40) Channel 134

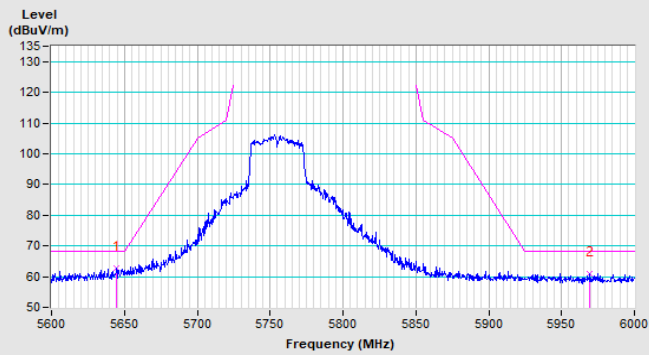


Horizontal (Peak)

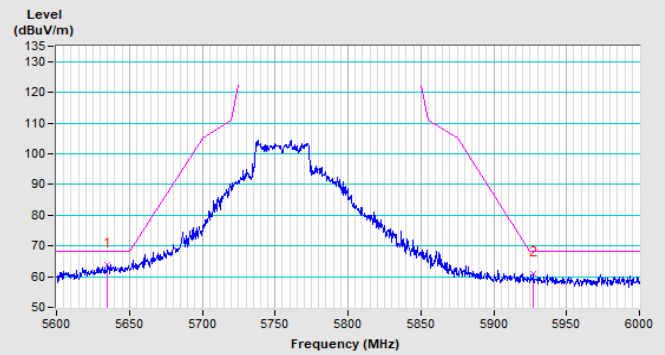


Vertical (Peak)

802.11ac (VHT40) Channel 151

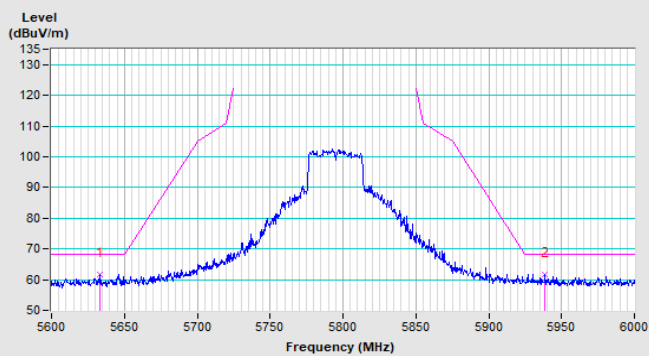


Horizontal (Peak)

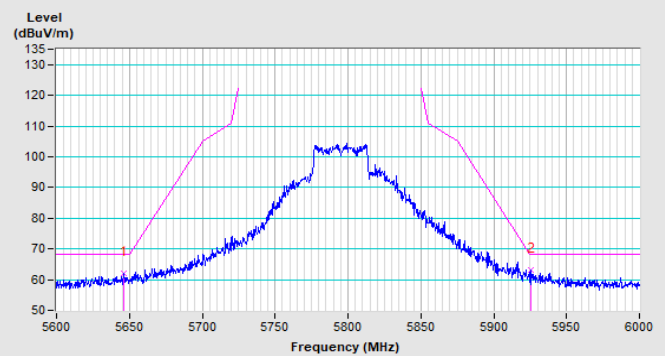


Vertical (Peak)

802.11ac (VHT40) Channel 159

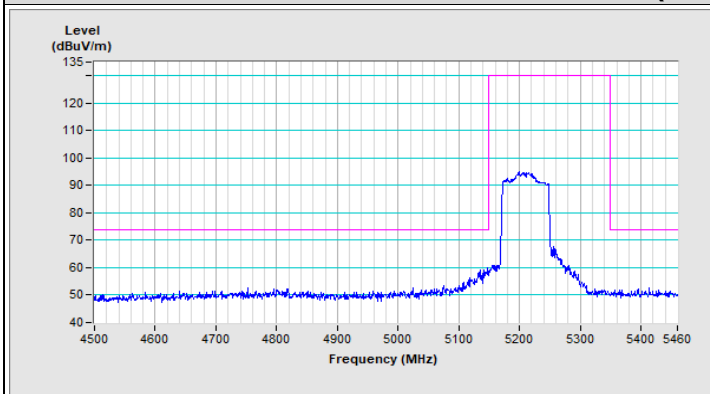


Horizontal (Peak)

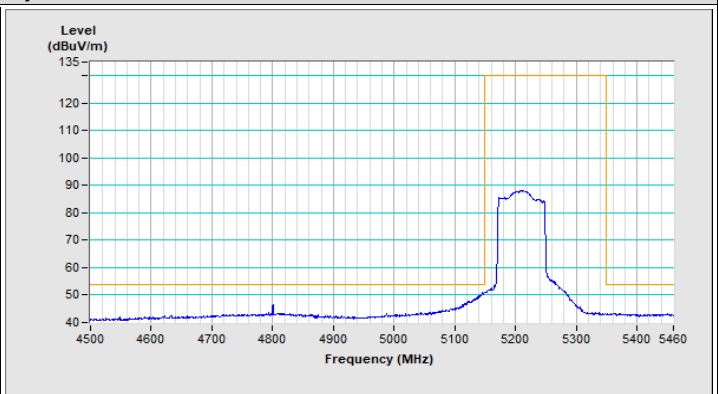


Vertical (Peak)

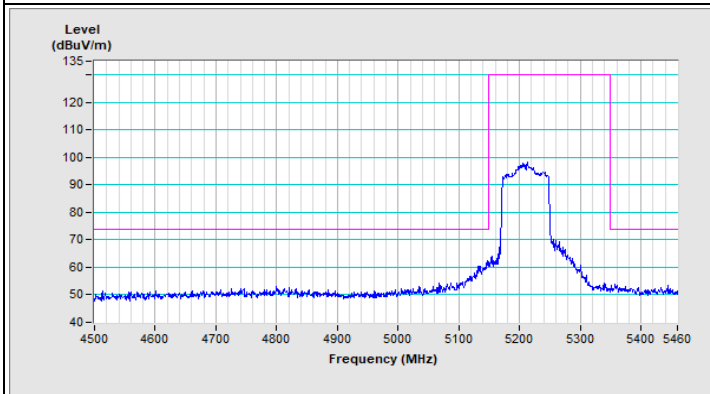
802.11ac (VHT80) Channel 42



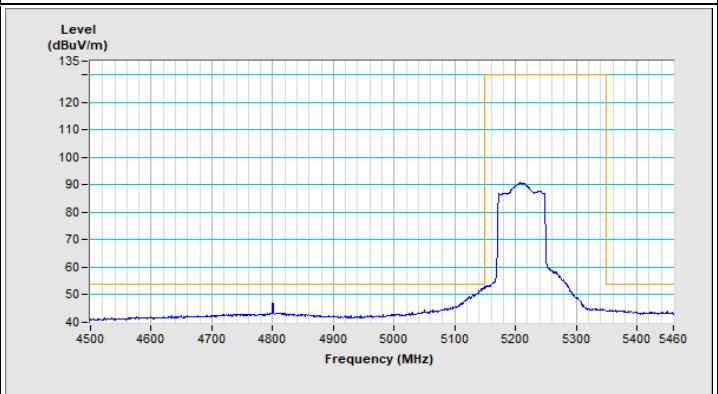
Horizontal (Peak)



Horizontal (Average)

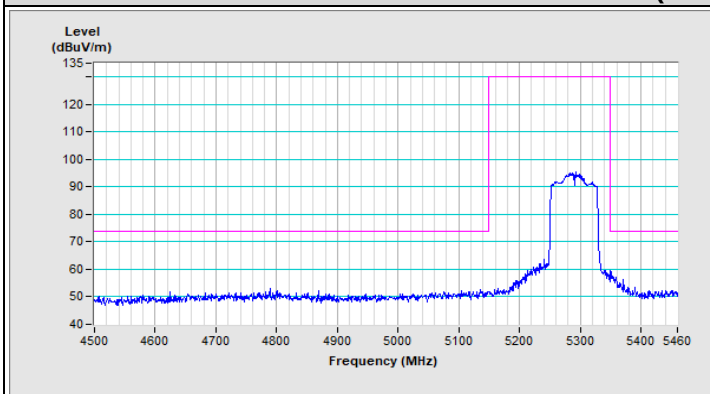


Vertical (Peak)

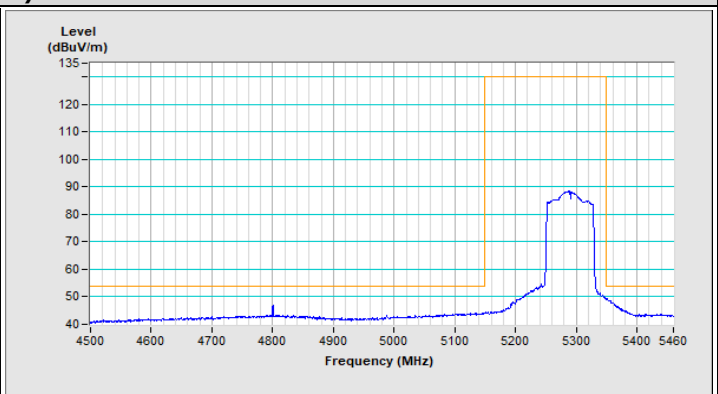


Vertical (Average)

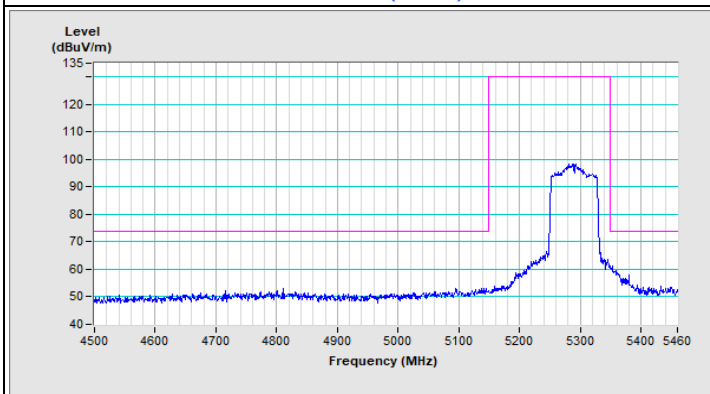
802.11ac (VHT80) Channel 58



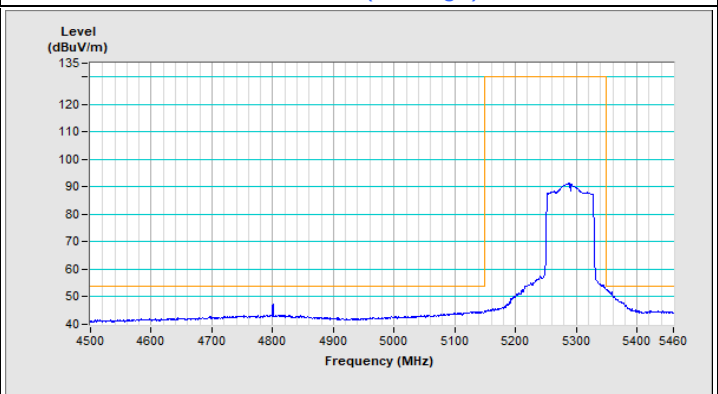
Horizontal (Peak)



Horizontal (Average)

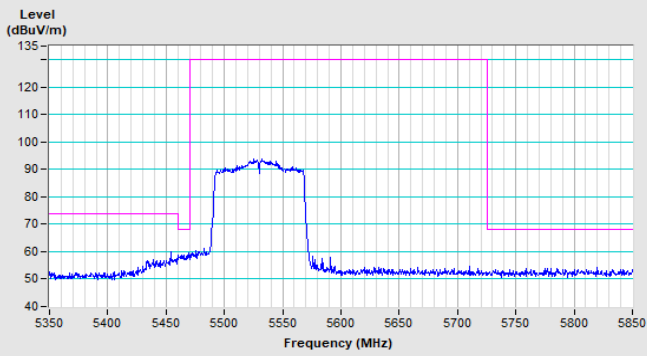


Vertical (Peak)

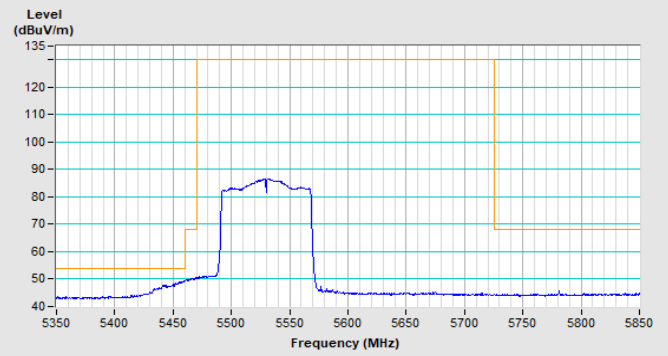


Vertical (Average)

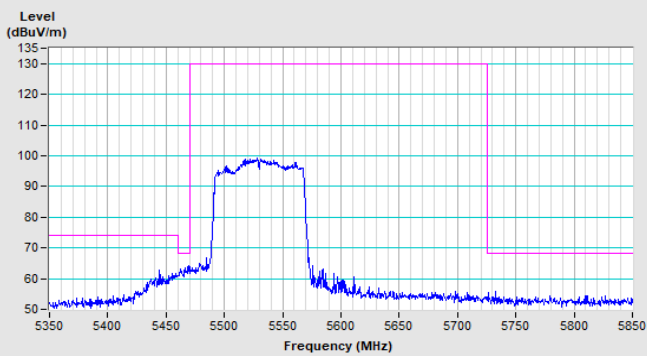
802.11ac (VHT80) Channel 106



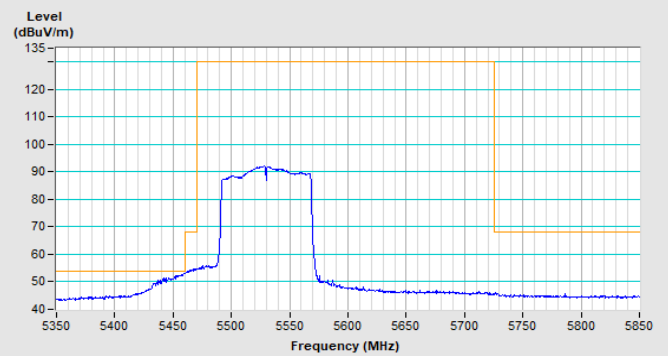
Horizontal (Peak)



Horizontal (Average)

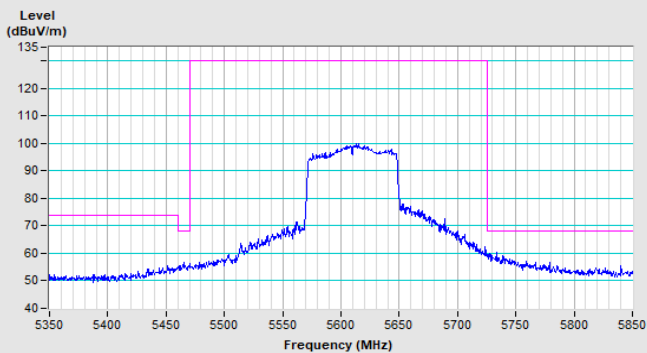


Vertical (Peak)

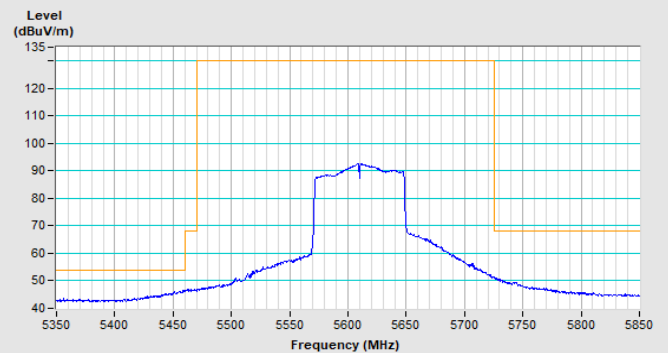


Vertical (Average)

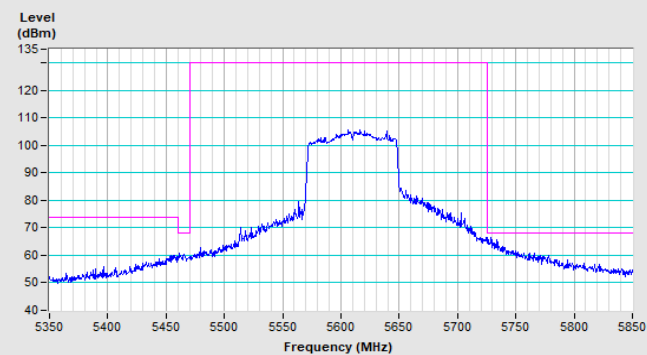
802.11ac (VHT80) Channel 122



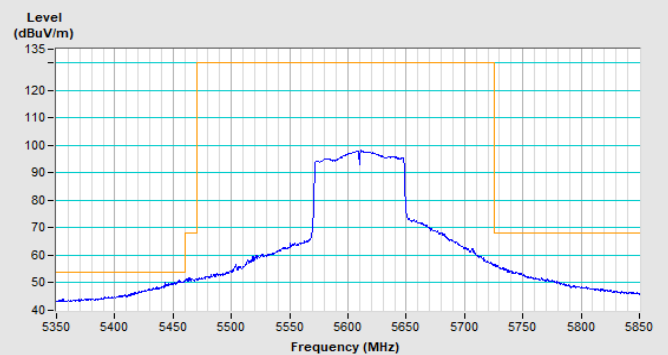
Horizontal (Peak)



Horizontal (Average)

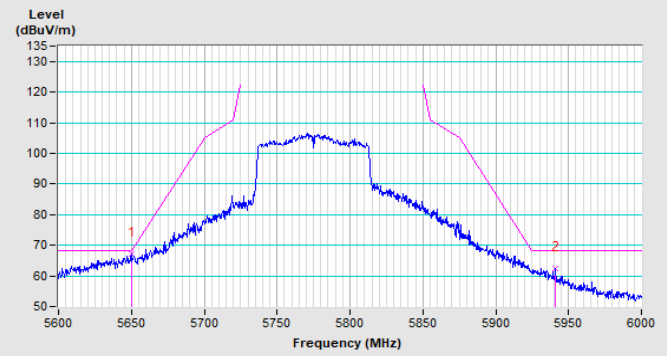
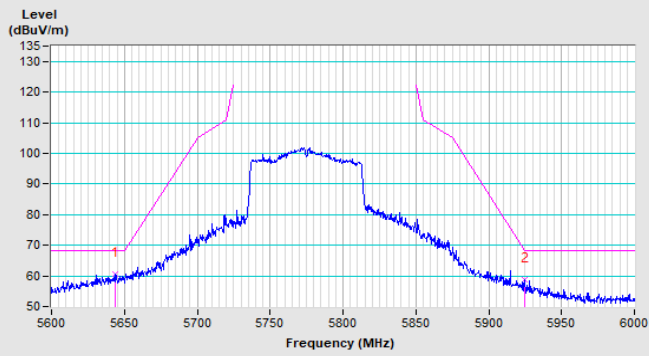


Vertical (Peak)



Vertical (Average)

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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