

## FCC Test Report (WLAN 5GHz Band)

**Report No.:** RFBGQZ-WTW-P21031058-1

**FCC ID:** M72-EDGEE350

**Test Model:** POLY EDGE E350

**Received Date:** Mar. 30, 2021

**Test Date:** Sep. 29 ~ Oct. 26, 2021 (For all tests except Conducted power and Power Spectral Density Test)

Mar. 10, 2022 (For Conducted power and Power Spectral Density Test)

**Issued Date:** Mar. 25, 2022

**Applicant:** Polycom Inc.

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**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
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**FCC Registration /  
Designation Number(1):** 788550 / TW0003

**Test Location(2):** No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

**FCC Registration /  
Designation Number(2):** 281270 / TW0032



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### Release Control Record

Issue No.	Description	Date Issued
RFBGQZ-WTW-P21031058-1	Original release.	Mar. 25, 2022

## 1 Certificate of Conformity

**Product:** IP Phone

**Brand:** POLY

**Test Model:** POLY EDGE E350

**Sample Status:** Engineering sample

**Applicant:** Polycom Inc.

**Test Date:** Sep. 29 ~ Oct. 26, 2021 (For all tests except Conducted power and Power Spectral Density Test)

Mar. 10, 2022 (For Conducted power and Power Spectral Density Test)

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

ANSI C63.10:2013

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

**Prepared by :** Pettie Chen, **Date:** Mar. 25, 2022  
Pettie Chen / Senior Specialist

**Approved by :** Jeremy Lin, **Date:** Mar. 25, 2022  
Jeremy Lin / Project Engineer

## 2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(9)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -14.26dB at 0.15400MHz.
15.407(b)(1/2/3/4(i/ii)/9)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -0.2dB at 17235.00MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	No antenna connector is used.

Note:

1. For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.
2. For U-NII-1, U-NII-2A, U-NII-2C band compliance with rule 15.407(b) of the band-edge items, the test plots were recorded in Annex B. Test Procedures refer to report 4.1.3.
3. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.79 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.00 dB
	30MHz ~ 200MHz	2.91 dB
	200MHz ~ 1000MHz	2.93 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	1.76 dB
	18GHz ~ 40GHz	1.77 dB

### 2.2 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

Product	IP Phone
Brand	POLY
Test Model	POLY EDGE E350
FW Version (FVIN)	MFG 1.0.8
Sample Status	Engineering sample
Power Supply Rating	5Vdc from adapter 48Vdc for PoE
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	OFDM
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 150Mbps 802.11ac: up to 433.3Mbps
Operating Frequency	5180 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
Number of Channel	5180 ~ 5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 8 802.11n (HT40), 802.11ac (VHT40): 4 802.11ac (VHT80): 2 5500 ~ 5720MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 12 802.11n (HT40), 802.11ac (VHT40): 6 802.11ac (VHT80): 3 5745 ~ 5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 5 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1
Output Power	5180 ~ 5240MHz: 19.724mW 5260 ~ 5320MHz: 19.861mW 5500 ~ 5720MHz: 19.861mW 5745 ~ 5825MHz: 19.815mW
Antenna Type	Refer to Note
Antenna Connector	NA
Accessory Device	Refer to Note
Cable Supplied	Refer to Note

Note:

1. The EUT provides 1 completed transmitter and 1 receiver.

Modulation Mode	TX Function
802.11a	1TX
802.11n (HT20)	1TX
802.11n (HT40)	1TX
802.11ac (VHT20)	1TX
802.11ac (VHT40)	1TX
802.11ac (VHT80)	1TX

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

2. The EUT contains following accessory devices.

Adapter	
Brand	Mass Power
Model	S018-1A050300VU
Input Power	100-240Vac 50/60Hz, 0.6A
Output Power	5Vdc, 3A
DC Output Cable	1.5m non-shielded cable without core

PoE (Support unit)	
Brand	CERIO
Model	POE-S48G2

Adapter for PoE (Support unit)	
Brand	L.T.E
Model	LTE36ES-S5-1
Input Power	100-240Vac, 50/60Hz, 0.75A
Output Power	48Vdc, 0.75A
DC Output Cable	1.8m non-shielded cable without core

Coil Cable	
Brand	EXCELTEK
Model	PE00003
Signal Line	570mm

LAN Cable	
Brand	EXCELTEK
Model	PO02008
Signal Line	1.524m

3. The antenna information is listed as below.

Antenna Type	PCB				
Antenna Connector	NA				
Frequency (MHz)	5150	5350	5470	5725	5850
Gain (dBi)	2.51	2.75	2.87	2.45	2.66

\*The above antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

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



5. The power settings are listed as below.

	802.11a	802.11ac (VHT20)		802.11ac (VHT40)		802.11ac (VHT80)
CH 36	13	14	CH 38	13	CH 42	11
CH 40	13	14	CH 46	13	CH 58	12
CH 48	13	14	CH 54	13	CH 106	12
CH 52	13	13	CH 62	13	CH 122	13
CH 60	13	13	CH 102	12	CH 138	13
CH 64	13	13	CH 110	13	CH 155	13
CH 100	13	13	CH 134	13		
CH 116	13	13	CH 142	13		
CH 140	13	13	CH 151	13		
CH 144	13	13	CH 159	13		
CH 149	13	13				
CH 157	13	13				
CH 165	13	13				

### 3.2 Description of Test Modes

#### For 5180 ~ 5320MHz:

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

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

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

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

2 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
42	5210MHz	58	5290MHz

#### For 5500 ~ 5720MHz:

12 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	144	5720 MHz

6 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	142	5710 MHz

3 channels are provided for 802.11ac (VHT80):

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

For 5745 ~ 5825MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775MHz

### 3.2.1 Test Mode Applicability and Tested Channel Detail

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

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

Note:

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

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

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
A	802.11a	5180-5250	36 to 48	36, 40, 48	OFDM	6.0
	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	6.5
	802.11ac (VHT40)		38 to 46	38, 46	OFDM	13.5
	802.11ac (VHT80)		42	42	OFDM	29.3
A	802.11a	5250-5320	52 to 64	52, 60, 64	OFDM	6.0
	802.11ac (VHT20)		52 to 64	52, 60, 64	OFDM	6.5
	802.11ac (VHT40)		54 to 62	54, 62	OFDM	13.5
	802.11ac (VHT80)		58	58	OFDM	29.3
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
	802.11ac (VHT20)		100 to 144	100, 116, 140, 144	OFDM	6.5
	802.11ac (VHT40)		102 to 142	102, 110, 134, 142	OFDM	13.5
	802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	29.3
A	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	6.5
	802.11ac (VHT40)		151 to 159	151, 159	OFDM	13.5
	802.11ac (VHT80)		155	155	OFDM	29.3

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

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
A, B	802.11ac (VHT20)	5180-5240	36 to 48	116	OFDM	6.5
	802.11ac (VHT20)	5260-5320	52 to 64		OFDM	6.5
	802.11ac (VHT20)	5500-5720	100 to 144		OFDM	6.5
	802.11ac (VHT20)	5745-5825	149 to 165		OFDM	6.5

**Power Line Conducted Emission Test:**

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
A, B	802.11ac (VHT20)	5180-5240	36 to 48	116	OFDM	6.5
	802.11ac (VHT20)	5260-5320	52 to 64		OFDM	6.5
	802.11ac (VHT20)	5500-5720	100 to 144		OFDM	6.5
	802.11ac (VHT20)	5745-5825	149 to 165		OFDM	6.5

**Antenna Port Conducted Measurement**

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
A	802.11a	5180-5250	36 to 48	36, 40, 48	OFDM	6.0
	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	6.5
	802.11ac (VHT40)		38 to 46	38, 46	OFDM	13.5
	802.11ac (VHT80)		42	42	OFDM	29.3
A	802.11a	5250-5320	52 to 64	52, 60, 64	OFDM	6.0
	802.11ac (VHT20)		52 to 64	52, 60, 64	OFDM	6.5
	802.11ac (VHT40)		54 to 62	54, 62	OFDM	13.5
	802.11ac (VHT80)		58	58	OFDM	29.3
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
	802.11ac (VHT20)		100 to 144	100, 116, 140, 144	OFDM	6.5
	802.11ac (VHT40)		102 to 142	102, 110, 134, 142	OFDM	13.5
	802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	29.3
A	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	6.5
	802.11ac (VHT40)		151 to 159	151, 159	OFDM	13.5
	802.11ac (VHT80)		155	155	OFDM	29.3

**Test Condition:**

Applicable to	Environmental Conditions	Input Power	Tested by
RE≥1G	23 deg. C, 66% RH	120Vac, 60Hz	Adair Peng
RE<1G	23 deg. C, 66% RH	120Vac, 60Hz 48Vdc	Adair Peng
PLC	23 deg. C, 67% RH	120Vac, 60Hz 48Vdc	Adair Peng
APCM	25 deg. C, 60% RH	120Vac, 60Hz	Frank Liu

**3.3 Duty Cycle of Test Signal**

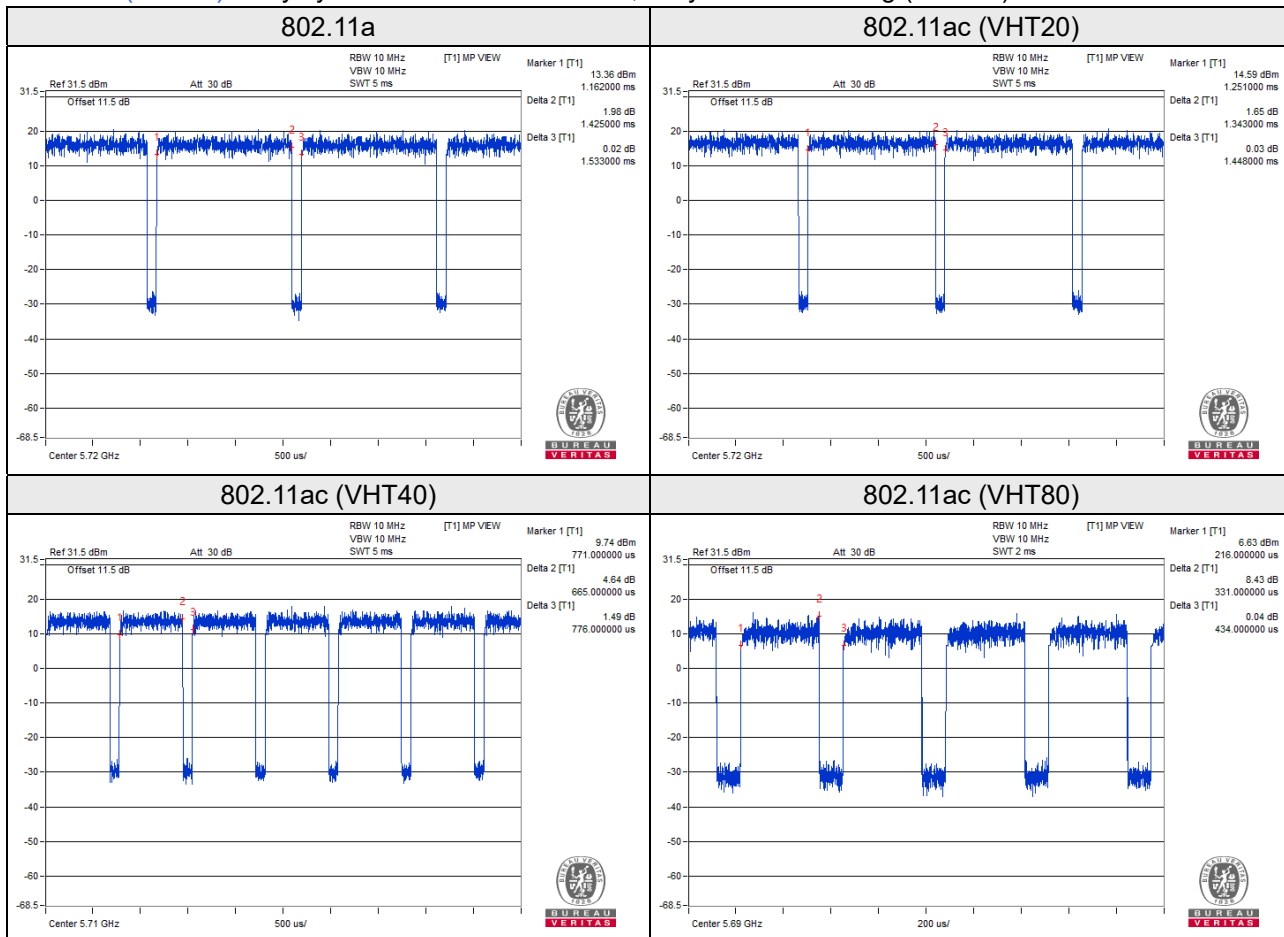
Duty cycle of test signal is < 98%, duty factor is required.

802.11a: Duty cycle = 1.425/1.533 = 0.93, Duty factor = 10 \* log (1/0.93) = 0.32

802.11ac (VHT20): Duty cycle = 1.343/1.448 = 0.927, Duty factor = 10 \* log (1/0.927) = 0.33

802.11ac (VHT40): Duty cycle = 0.665/0.776 = 0.857, Duty factor = 10 \* log (1/0.857) = 0.67

802.11ac (VHT80): Duty cycle = 0.331/0.434 = 0.763, Duty factor = 10 \* log (1/0.763) = 1.18



### 3.4 Description of Support Units

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

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Load	NA	NA	NA	NA	-
B.	USB Flash	SanDisk	SDDDC3-032G	NA	NA	-
C.	POE	CERIO	POE-S48G2	NA	NA	Provided by client
D.	Adapter	L.T.E	LTE36ES-S5-1	NA	NA	Provided by client
E.	Notebook	DELL	E5410	1HC2XM1	FCC DoC Approved	-

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item E acted as communication partner to transfer data.

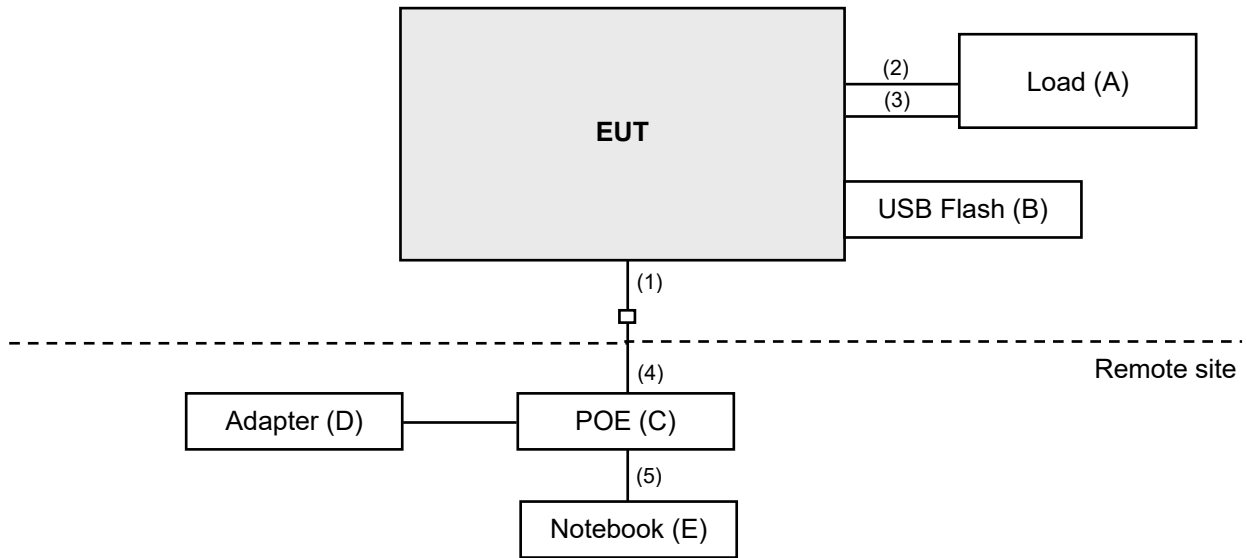
ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	LAN	1	1.524	N	0	RJ45, Cat5e Accessory of EUT
2.	LAN	1	1.5	N	0	RJ45, Cat5e
3.	RJ9	1	1	N	0	-
4.	LAN	1	1.5	N	0	RJ45, Cat5e
5.	LAN	1	10	N	0	RJ45, Cat5e

#### 3.4.1 Configuration of System under Test

Test Mode A



Test Mode B



### 3.5 General Description of Applied Standards and References

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

**Test standard:**

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

ANSI C63.10:2013

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

**References Test Guidance:**

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

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



## 4 Test Types and Results

### 4.1 Radiated Emission and Bandedge Measurement

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

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

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

Note:

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

Limits of unwanted emission out of the restricted bands

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3m	
		PK: 74 (dBµV/m)	AV: 54 (dBµV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2(dBµV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	<input checked="" type="checkbox"/> 15.407(b)(4)(i)	PK: -27 (dBm/MHz) <sup>*1</sup> PK: 10 (dBm/MHz) <sup>*2</sup> PK: 15.6 (dBm/MHz) <sup>*3</sup> PK: 27 (dBm/MHz) <sup>*4</sup>	PK: 68.2(dBµV/m) <sup>*1</sup> PK: 105.2 (dBµV/m) <sup>*2</sup> PK: 110.8(dBµV/m) <sup>*3</sup> PK: 122.2 (dBµV/m) <sup>*4</sup>
	<input type="checkbox"/> 15.407(b)(4)(ii)	Emission limits in section 15.247(d)	
<sup>*1</sup> beyond 75 MHz or more above of the band edge.		<sup>*2</sup> below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.	
<sup>*3</sup> below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.		<sup>*4</sup> from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

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

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

#### 4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver Rohde & Schwarz	N9038A	MY55420137	Apr. 09, 2021	Apr. 08, 2022
Spectrum Analyzer KEYSIGHT	N9020B	MY60110440	Dec. 18, 2020	Dec. 17, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-1213	Nov. 04, 2020	Nov. 03, 2021
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-563	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	9170-995	Nov. 22, 2020	Nov. 21, 2021
Loop Antenna EMCI	EM-6879	269	Sep. 16, 2021	Sep. 15, 2022
Loop Antenna TESEQ	HLA 6121	45745	Jul. 21, 2021	Jul. 20, 2022
Preamplifier EMCI	EMC330N	980782	Jan. 12, 2021	Jan. 11, 2022
Preamplifier EMCI	EMC118A45SE	980808	Jan. 12, 2021	Jan. 11, 2022
Preamplifier EMCI	EMC184045SE	980788	Jan. 12, 2021	Jan. 11, 2022
RF signal cable EMCI	EMC104-SM-SM-(900 0+2000+1000)	201243+ 201231+ 210102	Jan. 12, 2021	Jan. 11, 2022
RF signal cable EMCI	EMCCFD400-NM-NM- (9000+300+500)	201236+ 201235+ 201233	Jan. 12, 2021	Jan. 11, 2022
RF signal cable EMCI	EMC101G-KM-KM-(5 000+3000+2000)	201260+201257+201 254	Jan. 12, 2021	Jan. 11, 2022
Software BV ADT	ADT_Radiated_V7.6.1 5.9.5	NA	NA	NA
Antenna Tower Max-Full	MFT-151SS-0.5T	NA	NA	NA
Turn Table Max-Full	MF-7802BS	NA	NA	NA
Turn Table Controller Max-Full	MF-7802BS	MF780208674	NA	NA
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY55190 004/MY55190007/MY55 210005	Jul. 12, 2021	Jul. 11, 2022

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.  
2. The test was performed in WM Chamber 8.

### 4.1.3 Test Procedures

#### For Radiated emission below 30MHz

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

Note:

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

#### For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

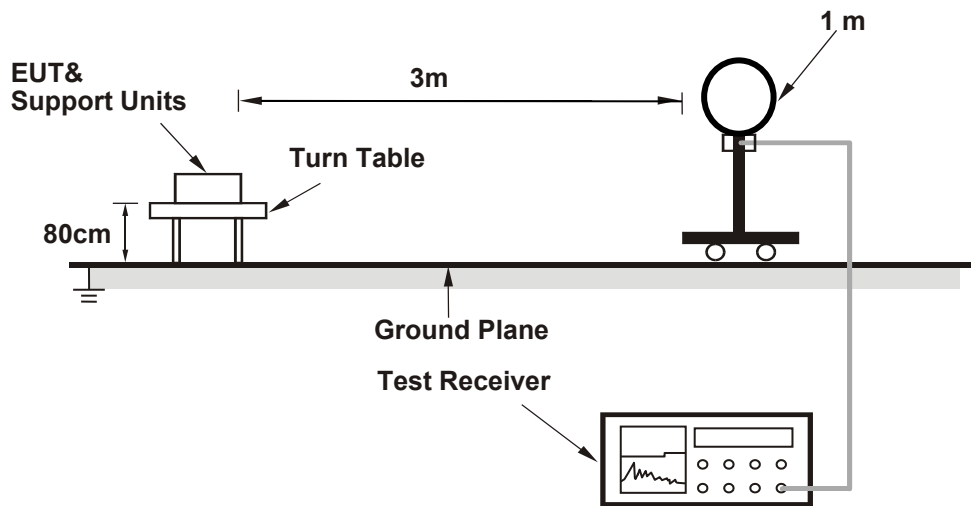
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98%) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz. (802.11a: RBW = 1MHz, VBW = 1kHz; 802.11ac (VHT20): RBW = 1MHz, VBW = 1kHz; 802.11ac (VHT40): RBW = 1MHz, VBW = 3kHz; 802.11ac (VHT80): RBW = 1MHz, VBW = 3kHz)
4. All modes of operation were investigated and the worst-case emissions are reported.

#### 4.1.4 Deviation from Test Standard

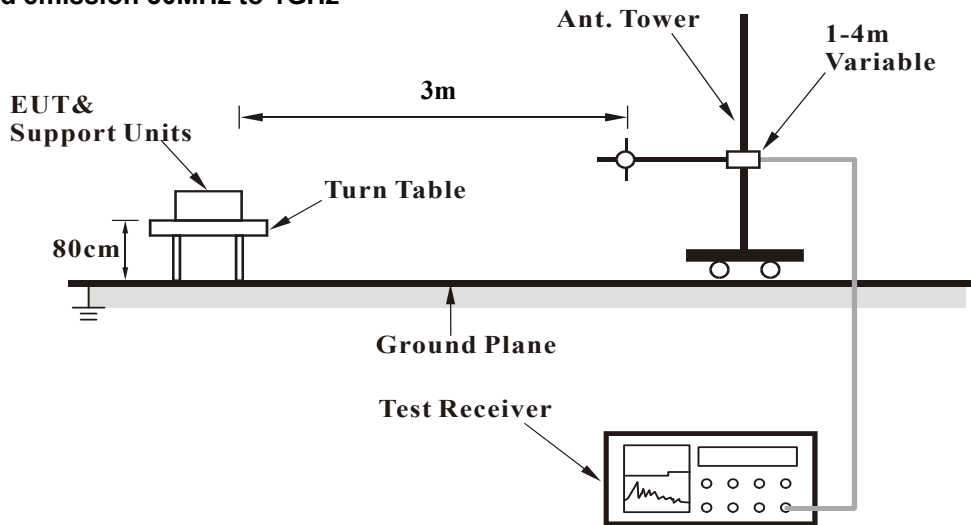
No deviation.

#### 4.1.5 Test Setup

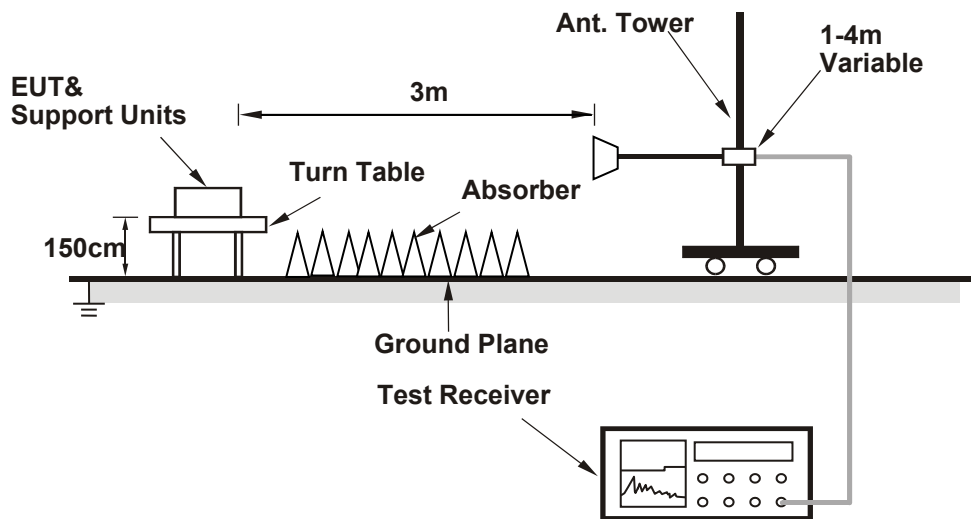
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



### For Radiated emission above 1GHz



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

#### 4.1.6 EUT Operating Conditions

- Placed the EUT on the testing table.
- The EUT under transmission condition continuously at specific channel frequency.

#### 4.1.7 Test Results

Above 1GHz data:

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	71.3 PK	74.0	-2.7	2.18 H	351	69.5	1.8
2	5150.00	52.2 AV	54.0	-1.8	2.18 H	351	50.4	1.8
3	*5180.00	111.5 PK			2.18 H	351	71.5	40.0
4	*5180.00	101.9 AV			2.18 H	351	61.9	40.0
5	#10360.00	55.2 PK	68.2	-13.0	1.95 H	311	47.0	8.2
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	70.6 PK	74.0	-3.4	1.79 V	176	68.8	1.8
2	5150.00	51.3 AV	54.0	-2.7	1.79 V	176	49.5	1.8
3	*5180.00	109.8 PK			1.79 V	176	69.8	40.0
4	*5180.00	100.3 AV			1.79 V	176	60.3	40.0
5	#10360.00	54.4 PK	68.2	-13.8	2.25 V	185	46.2	8.2

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.0 PK	74.0	-8.0	2.09 H	350	64.2	1.8
2	5150.00	52.2 AV	54.0	-1.8	2.09 H	350	50.4	1.8
3	*5200.00	114.6 PK			2.09 H	350	74.6	40.0
4	*5200.00	105.3 AV			2.09 H	350	65.3	40.0
5	#10400.00	55.6 PK	68.2	-12.6	1.99 H	315	47.5	8.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.9 PK	74.0	-9.1	2.10 V	173	63.1	1.8
2	5150.00	51.3 AV	54.0	-2.7	2.10 V	173	49.5	1.8
3	*5200.00	113.9 PK			2.10 V	173	73.9	40.0
4	*5200.00	105.1 AV			2.10 V	173	65.1	40.0
5	#10400.00	54.6 PK	68.2	-13.6	2.29 V	192	46.5	8.1

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.0 PK	74.0	-14.0	2.03 H	347	58.2	1.8
2	5150.00	45.5 AV	54.0	-8.5	2.03 H	347	43.7	1.8
3	*5240.00	116.2 PK			2.03 H	347	76.2	40.0
4	*5240.00	106.9 AV			2.03 H	347	66.9	40.0
5	#10480.00	56.3 PK	68.2	-11.9	1.95 H	312	48.2	8.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.0 PK	74.0	-15.0	2.12 V	174	57.2	1.8
2	5150.00	45.6 AV	54.0	-8.4	2.12 V	174	43.8	1.8
3	*5240.00	115.3 PK			2.12 V	174	75.3	40.0
4	*5240.00	106.1 AV			2.12 V	174	66.1	40.0
5	#10480.00	54.7 PK	68.2	-13.5	2.32 V	199	46.6	8.1

Remarks:

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



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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4800.00	57.0 PK	74.0	-17.0	1.85 H	345	55.5	1.5
2	4800.00	45.9 AV	54.0	-8.1	1.85 H	345	44.4	1.5
3	*5260.00	115.5 PK			1.85 H	345	75.6	39.9
4	*5260.00	106.1 AV			1.85 H	345	66.2	39.9
5	#10520.00	56.8 PK	68.2	-11.4	1.79 H	303	48.6	8.2

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	4800.00	57.0 PK	74.0	-17.0	2.08 V	173	55.5	1.5
2	4800.00	44.4 AV	54.0	-9.6	2.08 V	173	42.9	1.5
3	*5260.00	114.9 PK			2.08 V	173	75.0	39.9
4	*5260.00	105.7 AV			2.08 V	173	65.8	39.9
5	#10520.00	56.4 PK	68.2	-11.8	2.39 V	197	48.2	8.2

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	115.7 PK			2.18 H	347	75.7	40.0
2	*5300.00	106.7 AV			2.18 H	347	66.7	40.0
3	5350.00	68.5 PK	74.0	-5.5	2.18 H	347	66.7	1.8
4	5350.00	53.3 AV	54.0	-0.7	2.18 H	347	51.5	1.8
5	10600.00	56.6 PK	74.0	-17.4	1.82 H	309	48.5	8.1
6	10600.00	43.1 AV	54.0	-10.9	1.82 H	309	35.0	8.1

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	*5300.00	115.5 PK			2.06 V	156	75.5	40.0
2	*5300.00	106.5 AV			2.06 V	156	66.5	40.0
3	5350.00	68.3 PK	74.0	-5.7	2.06 V	156	66.5	1.8
4	5350.00	53.1 AV	54.0	-0.9	2.06 V	156	51.3	1.8
5	10600.00	56.5 PK	74.0	-17.5	2.29 V	200	48.4	8.1
6	10600.00	42.9 AV	54.0	-11.1	2.29 V	200	34.8	8.1

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.

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	111.6 PK			1.93 H	349	71.6	40.0
2	*5320.00	102.0 AV			1.93 H	349	62.0	40.0
3	5350.00	70.0 PK	74.0	-4.0	1.93 H	349	68.2	1.8
4	5350.00	53.5 AV	54.0	-0.5	1.93 H	349	51.7	1.8
5	10640.00	56.4 PK	74.0	-17.6	1.88 H	314	48.3	8.1
6	10640.00	42.9 AV	54.0	-11.1	1.88 H	314	34.8	8.1

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	*5320.00	110.6 PK			2.08 V	173	70.6	40.0
2	*5320.00	101.2 AV			2.08 V	173	61.2	40.0
3	5350.00	68.5 PK	74.0	-5.5	2.08 V	173	66.7	1.8
4	5350.00	52.5 AV	54.0	-1.5	2.08 V	173	50.7	1.8
5	10640.00	56.1 PK	74.0	-17.9	2.27 V	196	48.0	8.1
6	10640.00	42.6 AV	54.0	-11.4	2.27 V	196	34.5	8.1

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.

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.2 PK	74.0	-11.8	2.24 H	344	60.1	2.1
2	5460.00	46.2 AV	54.0	-7.8	2.24 H	344	44.1	2.1
3	#5470.00	66.6 PK	68.2	-1.6	2.24 H	344	64.5	2.1
4	*5500.00	107.7 PK			2.24 H	344	67.4	40.3
5	*5500.00	98.4 AV			2.24 H	344	58.1	40.3
6	11000.00	55.9 PK	74.0	-18.1	2.12 H	324	47.7	8.2
7	11000.00	42.7 AV	54.0	-11.3	2.12 H	324	34.5	8.2

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.4 PK	74.0	-14.6	3.36 V	174	57.3	2.1
2	5460.00	45.2 AV	54.0	-8.8	3.36 V	174	43.1	2.1
3	#5470.00	64.3 PK	68.2	-3.9	3.36 V	174	62.2	2.1
4	*5500.00	105.7 PK			3.36 V	174	65.4	40.3
5	*5500.00	96.3 AV			3.36 V	174	56.0	40.3
6	11000.00	55.6 PK	74.0	-18.4	2.34 V	193	47.4	8.2
7	11000.00	42.5 AV	54.0	-11.5	2.34 V	193	34.3	8.2

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	118.0 PK			3.09 H	351	77.3	40.7
2	*5580.00	108.7 AV			3.09 H	351	68.0	40.7
3	11160.00	56.3 PK	74.0	-17.7	2.17 H	330	48.1	8.2
4	11160.00	43.3 AV	54.0	-10.7	2.17 H	330	35.1	8.2
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	*5580.00	114.4 PK			3.34 V	158	73.7	40.7
2	*5580.00	105.1 AV			3.34 V	158	64.4	40.7
3	11160.00	55.9 PK	74.0	-18.1	2.39 V	204	47.7	8.2
4	11160.00	43.1 AV	54.0	-10.9	2.39 V	204	34.9	8.2

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	110.0 PK			3.38 H	348	68.7	41.3
2	*5700.00	100.5 AV			3.38 H	348	59.2	41.3
3	#5725.00	67.5 PK	68.2	-0.7	3.38 H	348	64.2	3.3
4	11400.00	56.6 PK	74.0	-17.4	2.08 H	324	47.8	8.8
5	11400.00	43.6 AV	54.0	-10.4	2.08 H	324	34.8	8.8

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	107.4 PK			3.23 V	159	66.1	41.3
2	*5700.00	98.4 AV			3.23 V	159	57.1	41.3
3	#5725.00	63.3 PK	68.2	-4.9	3.23 V	159	60.0	3.3
4	11400.00	56.3 PK	74.0	-17.7	2.28 V	201	47.5	8.8
5	11400.00	43.4 AV	54.0	-10.6	2.28 V	201	34.6	8.8

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	58.6 PK	68.2	-9.6	3.22 H	347	56.5	2.1
2	*5720.00	116.8 PK			3.22 H	347	75.5	41.3
3	*5720.00	107.6 AV			3.22 H	347	66.3	41.3
4	#5850.00	59.2 PK	68.2	-9.0	3.22 H	347	55.6	3.6
5	11440.00	56.9 PK	74.0	-17.1	2.13 H	332	48.1	8.8
6	11440.00	44.0 AV	54.0	-10.0	2.13 H	332	35.2	8.8
7	#17160.00	67.5 PK	68.2	-0.7	1.89 H	25	58.4	9.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	58.6 PK	68.2	-9.6	3.24 V	160	56.5	2.1
2	*5720.00	114.3 PK			3.24 V	160	73.0	41.3
3	*5720.00	104.9 AV			3.24 V	160	63.6	41.3
4	#5850.00	59.5 PK	68.2	-8.7	3.24 V	160	55.9	3.6
5	11440.00	56.5 PK	74.0	-17.5	2.28 V	199	47.7	8.8
6	11440.00	43.8 AV	54.0	-10.2	2.28 V	199	35.0	8.8
7	#17160.00	63.4 PK	68.2	-4.8	1.46 V	358	54.3	9.1

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5637.60	58.7 PK	68.2	-9.5	3.05 H	345	55.8	2.9
2	*5745.00	114.4 PK			3.05 H	345	73.0	41.4
3	*5745.00	104.9 AV			3.05 H	345	63.5	41.4
4	#5937.60	59.9 PK	68.2	-8.3	3.05 H	345	56.2	3.7
5	11490.00	58.6 PK	74.0	-15.4	1.68 H	69	49.9	8.7
6	11490.00	45.5 AV	54.0	-8.5	1.68 H	69	36.8	8.7
7	#17235.00	68.0 PK	68.2	-0.2	1.80 H	26	59.0	9.0

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	#5644.00	58.0 PK	68.2	-10.2	3.64 V	156	55.0	3.0
2	*5745.00	112.2 PK			3.64 V	156	70.8	41.4
3	*5745.00	102.7 AV			3.64 V	156	61.3	41.4
4	#5987.20	58.1 PK	68.2	-10.1	3.64 V	156	54.3	3.8
5	11490.00	60.7 PK	74.0	-13.3	2.05 V	101	52.0	8.7
6	11490.00	47.1 AV	54.0	-6.9	2.05 V	101	38.4	8.7
7	#17235.00	63.4 PK	68.2	-4.8	1.42 V	359	54.4	9.0

Remarks:

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



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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5630.80	58.4 PK	68.2	-9.8	3.05 H	344	55.5	2.9
2	*5785.00	113.2 PK			3.05 H	344	71.7	41.5
3	*5785.00	103.9 AV			3.05 H	344	62.4	41.5
4	#5936.00	58.6 PK	68.2	-9.6	3.05 H	344	54.9	3.7
5	11570.00	58.3 PK	74.0	-15.7	1.78 H	91	49.7	8.6
6	11570.00	48.5 AV	54.0	-5.5	1.78 H	91	39.9	8.6
7	#17355.00	67.8 PK	68.2	-0.4	1.95 H	20	58.7	9.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5602.40	58.1 PK	68.2	-10.1	3.42 V	157	55.4	2.7
2	*5785.00	111.2 PK			3.42 V	157	69.7	41.5
3	*5785.00	101.7 AV			3.42 V	157	60.2	41.5
4	#5958.40	59.2 PK	68.2	-9.0	3.42 V	157	55.5	3.7
5	11570.00	60.3 PK	74.0	-13.7	2.13 V	111	51.7	8.6
6	11570.00	50.3 AV	54.0	-3.7	2.13 V	111	41.7	8.6
7	#17355.00	63.3 PK	68.2	-4.9	1.49 V	2	54.2	9.1

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.80	58.1 PK	68.2	-10.1	3.24 H	345	55.1	3.0
2	*5825.00	112.6 PK			3.24 H	345	71.0	41.6
3	*5825.00	103.2 AV			3.24 H	345	61.6	41.6
4	#5990.40	58.8 PK	68.2	-9.4	3.24 H	345	55.0	3.8
5	11650.00	57.7 PK	74.0	-16.3	1.86 H	87	49.0	8.7
6	11650.00	44.7 AV	54.0	-9.3	1.86 H	87	36.0	8.7
7	#17475.00	67.9 PK	68.2	-0.3	1.99 H	13	58.8	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5615.60	57.9 PK	68.2	-10.3	3.24 V	162	55.1	2.8
2	*5825.00	111.6 PK			3.24 V	162	70.0	41.6
3	*5825.00	103.0 AV			3.24 V	162	61.4	41.6
4	#5929.20	58.9 PK	68.2	-9.3	3.24 V	162	55.2	3.7
5	11650.00	59.9 PK	74.0	-14.1	2.08 V	104	51.2	8.7
6	11650.00	46.4 AV	54.0	-7.6	2.08 V	104	37.7	8.7
7	#17475.00	63.3 PK	68.2	-4.9	1.54 V	357	54.2	9.1

Remarks:

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

RF Mode	TX 802.11ac (VHT20)	Channel	CH 36 : 5180 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	71.2 PK	74.0	-2.8	2.19 H	349	69.4	1.8
2	5150.00	52.7 AV	54.0	-1.3	2.19 H	349	50.9	1.8
3	*5180.00	111.5 PK			2.19 H	349	71.5	40.0
4	*5180.00	101.2 AV			2.19 H	349	61.2	40.0
5	#10360.00	55.3 PK	68.2	-12.9	1.96 H	318	47.1	8.2

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	70.9 PK	74.0	-3.1	1.81 V	173	69.1	1.8
2	5150.00	52.4 AV	54.0	-1.6	1.81 V	173	50.6	1.8
3	*5180.00	109.9 PK			1.81 V	173	69.9	40.0
4	*5180.00	100.4 AV			1.81 V	173	60.4	40.0
5	#10360.00	54.6 PK	68.2	-13.6	2.27 V	185	46.4	8.2

Remarks:

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

RF Mode	TX 802.11ac (VHT20)	Channel	CH 40 : 5200 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.5 PK	74.0	-6.5	2.03 H	349	65.7	1.8
2	5150.00	52.2 AV	54.0	-1.8	2.03 H	349	50.4	1.8
3	*5200.00	115.2 PK			2.03 H	349	75.2	40.0
4	*5200.00	104.7 AV			2.03 H	349	64.7	40.0
5	#10400.00	55.8 PK	68.2	-12.4	2.02 H	318	47.7	8.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.1 PK	74.0	-5.9	2.13 V	174	66.3	1.8
2	5150.00	51.7 AV	54.0	-2.3	2.13 V	174	49.9	1.8
3	*5200.00	113.8 PK			2.13 V	174	73.8	40.0
4	*5200.00	104.3 AV			2.13 V	174	64.3	40.0
5	#10400.00	54.9 PK	68.2	-13.3	2.31 V	195	46.8	8.1

Remarks:

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

RF Mode	TX 802.11ac (VHT20)	Channel	CH 48 : 5240 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.3 PK	74.0	-12.7	2.04 H	348	59.5	1.8
2	5150.00	46.0 AV	54.0	-8.0	2.04 H	348	44.2	1.8
3	*5240.00	116.7 PK			2.04 H	348	76.7	40.0
4	*5240.00	106.8 AV			2.04 H	348	66.8	40.0
5	#10480.00	56.4 PK	68.2	-11.8	1.93 H	315	48.3	8.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.9 PK	74.0	-12.1	2.15 V	174	60.1	1.8
2	5150.00	45.9 AV	54.0	-8.1	2.15 V	174	44.1	1.8
3	*5240.00	115.1 PK			2.15 V	174	75.1	40.0
4	*5240.00	105.6 AV			2.15 V	174	65.6	40.0
5	#10480.00	55.1 PK	68.2	-13.1	2.33 V	195	47.0	8.1

Remarks:

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

RF Mode	TX 802.11ac (VHT20)	Channel	CH 52 : 5260 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4800.00	58.6 PK	74.0	-15.4	1.94 H	349	57.1	1.5
2	4800.00	46.4 AV	54.0	-7.6	1.94 H	349	44.9	1.5
3	*5260.00	116.0 PK			1.94 H	349	76.1	39.9
4	*5260.00	106.3 AV			1.94 H	349	66.4	39.9
5	#10520.00	56.7 PK	68.2	-11.5	1.82 H	304	48.5	8.2

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	4800.00	56.7 PK	74.0	-17.3	1.97 V	155	55.2	1.5
2	4800.00	43.7 AV	54.0	-10.3	1.97 V	155	42.2	1.5
3	*5260.00	115.6 PK			1.97 V	155	75.7	39.9
4	*5260.00	106.0 AV			1.97 V	155	66.1	39.9
5	#10520.00	56.4 PK	68.2	-11.8	2.27 V	204	48.2	8.2

Remarks:

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

RF Mode	TX 802.11ac (VHT20)	Channel	CH 60 : 5300 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	114.5 PK			2.10 H	349	74.5	40.0
2	*5300.00	104.4 AV			2.10 H	349	64.4	40.0
3	5350.00	65.7 PK	74.0	-8.3	2.10 H	349	63.9	1.8
4	5350.00	50.8 AV	54.0	-3.2	2.10 H	349	49.0	1.8
5	10600.00	56.5 PK	74.0	-17.5	1.88 H	301	48.4	8.1
6	10600.00	43.0 AV	54.0	-11.0	1.88 H	301	34.9	8.1

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	*5300.00	113.9 PK			1.97 V	156	73.9	40.0
2	*5300.00	104.2 AV			1.97 V	156	64.2	40.0
3	5350.00	64.3 PK	74.0	-9.7	1.97 V	156	62.5	1.8
4	5350.00	50.8 AV	54.0	-3.2	1.97 V	156	49.0	1.8
5	10600.00	56.4 PK	74.0	-17.6	2.27 V	201	48.3	8.1
6	10600.00	42.8 AV	54.0	-11.2	2.27 V	201	34.7	8.1

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.

RF Mode	TX 802.11ac (VHT20)	Channel	CH 64 : 5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	111.9 PK			2.12 H	346	71.9	40.0
2	*5320.00	101.2 AV			2.12 H	346	61.2	40.0
3	5350.00	69.0 PK	74.0	-5.0	2.12 H	346	67.2	1.8
4	5350.00	52.4 AV	54.0	-1.6	2.12 H	346	50.6	1.8
5	10640.00	56.1 PK	74.0	-17.9	1.91 H	310	48.0	8.1
6	10640.00	42.7 AV	54.0	-11.3	1.91 H	310	34.6	8.1

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	*5320.00	111.5 PK			2.09 V	157	71.5	40.0
2	*5320.00	101.4 AV			2.09 V	157	61.4	40.0
3	5350.00	70.1 PK	74.0	-3.9	2.09 V	157	68.3	1.8
4	5350.00	53.0 AV	54.0	-1.0	2.09 V	157	51.2	1.8
5	10640.00	56.0 PK	74.0	-18.0	2.26 V	196	47.9	8.1
6	10640.00	42.6 AV	54.0	-11.4	2.26 V	196	34.5	8.1

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.



RF Mode	TX 802.11ac (VHT20)	Channel	CH 100 : 5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.1 PK	74.0	-10.9	3.12 H	353	61.0	2.1
2	5460.00	45.6 AV	54.0	-8.4	3.12 H	353	43.5	2.1
3	#5470.00	66.6 PK	68.2	-1.6	3.12 H	353	64.5	2.1
4	*5500.00	109.3 PK			3.12 H	353	69.0	40.3
5	*5500.00	99.0 AV			3.12 H	353	58.7	40.3
6	11000.00	56.1 PK	74.0	-17.9	2.18 H	321	47.9	8.2
7	11000.00	43.0 AV	54.0	-11.0	2.18 H	321	34.8	8.2

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.9 PK	74.0	-14.1	3.33 V	180	57.8	2.1
2	5460.00	44.9 AV	54.0	-9.1	3.33 V	180	42.8	2.1
3	#5470.00	64.8 PK	68.2	-3.4	3.33 V	180	62.7	2.1
4	*5500.00	105.7 PK			3.33 V	180	65.4	40.3
5	*5500.00	96.0 AV			3.33 V	180	55.7	40.3
6	11000.00	55.8 PK	74.0	-18.2	2.31 V	205	47.6	8.2
7	11000.00	42.8 AV	54.0	-11.2	2.31 V	205	34.6	8.2

Remarks:

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

RF Mode	TX 802.11ac (VHT20)	Channel	CH 116 : 5580 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	118.3 PK			3.09 H	352	77.6	40.7
2	*5580.00	108.4 AV			3.09 H	352	67.7	40.7
3	11160.00	56.3 PK	74.0	-17.7	2.07 H	319	48.1	8.2
4	11160.00	43.4 AV	54.0	-10.6	2.07 H	319	35.2	8.2
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	*5580.00	115.8 PK			3.33 V	159	75.1	40.7
2	*5580.00	105.8 AV			3.33 V	159	65.1	40.7
3	11160.00	55.9 PK	74.0	-18.1	2.28 V	208	47.7	8.2
4	11160.00	43.1 AV	54.0	-10.9	2.28 V	208	34.9	8.2

Remarks:

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

RF Mode	TX 802.11ac (VHT20)	Channel	CH 140 : 5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	110.7 PK			3.23 H	349	69.4	41.3
2	*5700.00	99.8 AV			3.23 H	349	58.5	41.3
3	#5725.00	67.3 PK	68.2	-0.9	3.23 H	349	64.0	3.3
4	11400.00	56.5 PK	74.0	-17.5	2.01 H	328	47.7	8.8
5	11400.00	43.7 AV	54.0	-10.3	2.01 H	328	34.9	8.8

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	107.7 PK			3.40 V	160	66.4	41.3
2	*5700.00	98.0 AV			3.40 V	160	56.7	41.3
3	#5725.00	65.3 PK	68.2	-2.9	3.40 V	160	62.0	3.3
4	11400.00	56.3 PK	74.0	-17.7	2.31 V	201	47.5	8.8
5	11400.00	43.4 AV	54.0	-10.6	2.31 V	201	34.6	8.8

Remarks:

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

RF Mode	TX 802.11ac (VHT20)	Channel	CH 144 : 5720 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	59.0 PK	68.2	-9.2	3.19 H	347	56.9	2.1
2	*5720.00	117.5 PK			3.19 H	347	76.2	41.3
3	*5720.00	107.3 AV			3.19 H	347	66.0	41.3
4	#5850.00	59.2 PK	68.2	-9.0	3.19 H	347	55.6	3.6
5	11440.00	56.8 PK	74.0	-17.2	2.05 H	326	48.0	8.8
6	11440.00	43.9 AV	54.0	-10.1	2.05 H	326	35.1	8.8
7	#17160.00	67.7 PK	68.2	-0.5	1.89 H	20	58.6	9.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	58.5 PK	68.2	-9.7	3.38 V	176	56.4	2.1
2	*5720.00	115.0 PK			3.38 V	176	73.7	41.3
3	*5720.00	104.8 AV			3.38 V	176	63.5	41.3
4	#5850.00	59.2 PK	68.2	-9.0	3.38 V	176	55.6	3.6
5	11440.00	56.6 PK	74.0	-17.4	2.20 V	202	47.8	8.8
6	11440.00	43.7 AV	54.0	-10.3	2.20 V	202	34.9	8.8
7	#17160.00	63.8 PK	68.2	-4.4	1.53 V	2	54.7	9.1

Remarks:

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

RF Mode	TX 802.11ac (VHT20)	Channel	CH 149 : 5745 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.40	57.8 PK	68.2	-10.4	3.06 H	346	54.8	3.0
2	*5745.00	114.4 PK			3.06 H	346	73.0	41.4
3	*5745.00	104.5 AV			3.06 H	346	63.1	41.4
4	#5944.80	59.1 PK	68.2	-9.1	3.06 H	346	55.4	3.7
5	11490.00	59.1 PK	74.0	-14.9	1.85 H	91	50.4	8.7
6	11490.00	46.1 AV	54.0	-7.9	1.85 H	91	37.4	8.7
7	#17235.00	67.6 PK	68.2	-0.6	1.90 H	19	58.6	9.0

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5617.60	59.2 PK	68.2	-9.0	3.44 V	155	56.4	2.8
2	*5745.00	112.0 PK			3.44 V	155	70.6	41.4
3	*5745.00	102.1 AV			3.44 V	155	60.7	41.4
4	#5992.00	59.1 PK	68.2	-9.1	3.44 V	155	55.3	3.8
5	11490.00	61.1 PK	74.0	-12.9	2.09 V	100	52.4	8.7
6	11490.00	47.7 AV	54.0	-6.3	2.09 V	100	39.0	8.7
7	#17235.00	63.1 PK	68.2	-5.1	1.47 V	1	54.1	9.0

Remarks:

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

RF Mode	TX 802.11ac (VHT20)	Channel	CH 157 : 5785 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5616.80	58.4 PK	68.2	-9.8	3.06 H	348	55.6	2.8
2	*5785.00	113.6 PK			3.06 H	348	72.1	41.5
3	*5785.00	104.1 AV			3.06 H	348	62.6	41.5
4	#5944.00	59.2 PK	68.2	-9.0	3.06 H	348	55.5	3.7
5	11570.00	58.4 PK	74.0	-15.6	1.81 H	89	49.8	8.6
6	11570.00	45.1 AV	54.0	-8.9	1.81 H	89	36.5	8.6
7	#17355.00	67.6 PK	68.2	-0.6	1.98 H	16	58.5	9.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5633.20	58.3 PK	68.2	-9.9	3.42 V	157	55.4	2.9
2	*5785.00	111.7 PK			3.42 V	157	70.2	41.5
3	*5785.00	102.1 AV			3.42 V	157	60.6	41.5
4	#5976.40	58.8 PK	68.2	-9.4	3.42 V	157	55.1	3.7
5	11570.00	60.6 PK	74.0	-13.4	2.13 V	105	52.0	8.6
6	11570.00	46.7 AV	54.0	-7.3	2.13 V	105	38.1	8.6
7	#17355.00	63.1 PK	68.2	-5.1	1.52 V	0	54.0	9.1

Remarks:

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

RF Mode	TX 802.11ac (VHT20)	Channel	CH 165 : 5825 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5602.00	57.9 PK	68.2	-10.3	3.30 H	348	55.2	2.7
2	*5825.00	113.2 PK			3.30 H	348	71.6	41.6
3	*5825.00	103.6 AV			3.30 H	348	62.0	41.6
4	#5973.20	58.8 PK	68.2	-9.4	3.30 H	348	55.1	3.7
5	11650.00	58.1 PK	74.0	-15.9	1.82 H	93	49.4	8.7
6	11650.00	45.4 AV	54.0	-8.6	1.82 H	93	36.7	8.7
7	#17475.00	67.7 PK	68.2	-0.5	1.92 H	18	58.6	9.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5625.60	57.9 PK	68.2	-10.3	3.54 V	157	55.0	2.9
2	*5825.00	112.7 PK			3.54 V	157	71.1	41.6
3	*5825.00	102.5 AV			3.54 V	157	60.9	41.6
4	#5930.00	58.6 PK	68.2	-9.6	3.54 V	157	54.9	3.7
5	11650.00	60.2 PK	74.0	-13.8	2.08 V	103	51.5	8.7
6	11650.00	47.0 AV	54.0	-7.0	2.08 V	103	38.3	8.7
7	#17475.00	63.2 PK	68.2	-5.0	1.46 V	359	54.1	9.1

Remarks:

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

RF Mode	TX 802.11ac (VHT40)	Channel	CH 38 : 5190 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.9 PK	74.0	-7.1	2.07 H	349	65.1	1.8
2	5150.00	53.5 AV	54.0	-0.5	2.07 H	349	51.7	1.8
3	*5190.00	106.1 PK			2.07 H	349	66.1	40.0
4	*5190.00	96.2 AV			2.07 H	349	56.2	40.0
5	#10380.00	54.6 PK	68.2	-13.6	1.96 H	318	46.5	8.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.9 PK	74.0	-8.1	2.16 V	151	64.1	1.8
2	5150.00	53.4 AV	54.0	-0.6	2.16 V	151	51.6	1.8
3	*5190.00	105.3 PK			2.16 V	151	65.3	40.0
4	*5190.00	95.8 AV			2.16 V	151	55.8	40.0
5	#10380.00	54.4 PK	68.2	-13.8	2.35 V	205	46.3	8.1

Remarks:

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



RF Mode	TX 802.11ac (VHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.6 PK	74.0	-7.4	1.95 H	347	64.8	1.8
2	5150.00	53.2 AV	54.0	-0.8	1.95 H	347	51.4	1.8
3	*5230.00	111.5 PK			1.95 H	347	71.5	40.0
4	*5230.00	101.6 AV			1.95 H	347	61.6	40.0
5	#10460.00	54.7 PK	68.2	-13.5	1.99 H	312	46.7	8.0

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.4 PK	74.0	-6.6	2.15 V	155	65.6	1.8
2	5150.00	53.1 AV	54.0	-0.9	2.15 V	155	51.3	1.8
3	*5230.00	110.5 PK			2.15 V	155	70.5	40.0
4	*5230.00	100.9 AV			2.15 V	155	60.9	40.0
5	#10460.00	54.5 PK	68.2	-13.7	2.39 V	211	46.5	8.0

Remarks:

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

RF Mode	TX 802.11ac (VHT40)	Channel	CH 54 : 5270 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5270.00	111.5 PK			1.90 H	350	71.5	40.0
2	*5270.00	101.7 AV			1.90 H	350	61.7	40.0
3	5350.00	68.3 PK	74.0	-5.7	1.90 H	350	66.5	1.8
4	5350.00	53.5 AV	54.0	-0.5	1.90 H	350	51.7	1.8
5	#10540.00	55.4 PK	68.2	-12.8	1.97 H	302	47.2	8.2

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	*5270.00	111.0 PK			2.01 V	155	71.0	40.0
2	*5270.00	100.9 AV			2.01 V	155	60.9	40.0
3	5350.00	68.7 PK	74.0	-5.3	2.01 V	155	66.9	1.8
4	5350.00	53.2 AV	54.0	-0.8	2.01 V	155	51.4	1.8
5	#10540.00	55.2 PK	68.2	-13.0	2.34 V	204	47.0	8.2

Remarks:

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

RF Mode	TX 802.11ac (VHT40)	Channel	CH 62 : 5310 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	106.3 PK			1.96 H	348	66.3	40.0
2	*5310.00	96.4 AV			1.96 H	348	56.4	40.0
3	5350.00	69.6 PK	74.0	-4.4	1.96 H	348	67.8	1.8
4	5350.00	52.3 AV	54.0	-1.7	1.96 H	348	50.5	1.8
5	10620.00	56.0 PK	74.0	-18.0	2.03 H	323	47.9	8.1
6	10620.00	42.7 AV	54.0	-11.3	2.03 H	323	34.6	8.1

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	*5310.00	105.7 PK			2.23 V	157	65.7	40.0
2	*5310.00	96.2 AV			2.23 V	157	56.2	40.0
3	5350.00	69.2 PK	74.0	-4.8	2.23 V	157	67.4	1.8
4	5350.00	51.5 AV	54.0	-2.5	2.23 V	157	49.7	1.8
5	10620.00	55.8 PK	74.0	-18.2	2.33 V	196	47.7	8.1
6	10620.00	42.6 AV	54.0	-11.4	2.33 V	196	34.5	8.1

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.

RF Mode	TX 802.11ac (VHT40)	Channel	CH 102 : 5510 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.2 PK	74.0	-11.8	3.17 H	352	60.1	2.1
2	5460.00	48.7 AV	54.0	-5.3	3.17 H	352	46.6	2.1
3	#5470.00	67.3 PK	68.2	-0.9	3.17 H	352	65.2	2.1
4	*5510.00	106.2 PK			3.17 H	352	65.8	40.4
5	*5510.00	96.6 AV			3.17 H	352	56.2	40.4
6	11020.00	55.9 PK	74.0	-18.1	2.12 H	329	47.7	8.2
7	11020.00	43.1 AV	54.0	-10.9	2.12 H	329	34.9	8.2

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.4 PK	74.0	-13.6	3.21 V	180	58.3	2.1
2	5460.00	37.2 AV	54.0	-16.8	3.21 V	180	35.1	2.1
3	#5470.00	63.5 PK	68.2	-4.7	3.21 V	180	61.4	2.1
4	*5510.00	102.4 PK			3.21 V	180	62.0	40.4
5	*5510.00	92.9 AV			3.21 V	180	52.5	40.4
6	11020.00	55.8 PK	74.0	-18.2	2.29 V	198	47.6	8.2
7	11020.00	42.9 AV	54.0	-11.1	2.29 V	198	34.7	8.2

Remarks:

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

RF Mode	TX 802.11ac (VHT40)	Channel	CH 110 : 5550 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.8 PK	74.0	-9.2	3.29 H	352	62.7	2.1
2	5460.00	49.2 AV	54.0	-4.8	3.29 H	352	47.1	2.1
3	#5470.00	67.4 PK	68.2	-0.8	3.29 H	352	65.3	2.1
4	*5550.00	111.3 PK			3.29 H	352	70.7	40.6
5	*5550.00	101.3 AV			3.29 H	352	60.7	40.6
6	11100.00	55.9 PK	74.0	-18.1	2.02 H	325	47.7	8.2
7	11100.00	43.0 AV	54.0	-11.0	2.02 H	325	34.8	8.2

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.2 PK	74.0	-11.8	3.25 V	179	60.1	2.1
2	5460.00	47.9 AV	54.0	-6.1	3.25 V	179	45.8	2.1
3	#5470.00	64.8 PK	68.2	-3.4	3.25 V	179	62.7	2.1
4	*5550.00	107.8 PK			3.25 V	179	67.2	40.6
5	*5550.00	97.7 AV			3.25 V	179	57.1	40.6
6	11100.00	55.8 PK	74.0	-18.2	2.31 V	208	47.6	8.2
7	11100.00	42.9 AV	54.0	-11.1	2.31 V	208	34.7	8.2

Remarks:

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

RF Mode	TX 802.11ac (VHT40)	Channel	CH 134 : 5670 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	109.3 PK			2.95 H	349	68.2	41.1
2	*5670.00	99.9 AV			2.95 H	349	58.8	41.1
3	#5725.00	66.9 PK	68.2	-1.3	2.95 H	349	63.6	3.3
4	11340.00	56.3 PK	74.0	-17.7	2.11 H	331	47.7	8.6
5	11340.00	43.3 AV	54.0	-10.7	2.11 H	331	34.7	8.6

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	105.8 PK			3.64 V	155	64.7	41.1
2	*5670.00	96.2 AV			3.64 V	155	55.1	41.1
3	#5725.00	64.3 PK	68.2	-3.9	3.64 V	155	61.0	3.3
4	11340.00	56.2 PK	74.0	-17.8	2.28 V	197	47.6	8.6
5	11340.00	43.1 AV	54.0	-10.9	2.28 V	197	34.5	8.6

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

RF Mode	TX 802.11ac (VHT40)	Channel	CH 142 : 5710 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	59.3 PK	68.2	-8.9	3.72 H	349	57.2	2.1
2	*5710.00	115.3 PK			3.72 H	349	74.0	41.3
3	*5710.00	105.1 AV			3.72 H	349	63.8	41.3
4	#5850.00	63.6 PK	68.2	-4.6	3.72 H	349	60.0	3.6
5	11420.00	57.0 PK	74.0	-17.0	2.00 H	325	48.2	8.8
6	11420.00	43.9 AV	54.0	-10.1	2.00 H	325	35.1	8.8

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	59.0 PK	68.2	-9.2	3.48 V	194	56.9	2.1
2	*5710.00	112.4 PK			3.48 V	194	71.1	41.3
3	*5710.00	102.4 AV			3.48 V	194	61.1	41.3
4	#5850.00	61.4 PK	68.2	-6.8	3.48 V	194	57.8	3.6
5	11420.00	56.8 PK	74.0	-17.2	2.26 V	204	48.0	8.8
6	11420.00	43.8 AV	54.0	-10.2	2.26 V	204	35.0	8.8

Remarks:

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

RF Mode	TX 802.11ac (VHT40)	Channel	CH 151 : 5755 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	62.3 PK	68.2	-5.9	3.11 H	344	59.2	3.1
2	*5755.00	111.5 PK			3.11 H	344	70.1	41.4
3	*5755.00	101.6 AV			3.11 H	344	60.2	41.4
4	#5935.60	58.9 PK	68.2	-9.3	3.11 H	344	55.2	3.7
5	11510.00	57.2 PK	74.0	-16.8	1.87 H	87	48.5	8.7
6	11510.00	44.7 AV	54.0	-9.3	1.87 H	87	36.0	8.7
7	#17265.00	66.9 PK	68.2	-1.3	1.91 H	20	58.0	8.9

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	#5644.80	60.5 PK	68.2	-7.7	3.28 V	156	57.5	3.0
2	*5755.00	109.4 PK			3.28 V	156	68.0	41.4
3	*5755.00	99.4 AV			3.28 V	156	58.0	41.4
4	#5988.00	59.9 PK	68.2	-8.3	3.28 V	156	56.1	3.8
5	11510.00	59.1 PK	74.0	-14.9	2.04 V	99	50.4	8.7
6	11510.00	46.0 AV	54.0	-8.0	2.04 V	99	37.3	8.7
7	#17265.00	62.6 PK	68.2	-5.6	1.53 V	3	53.7	8.9

Remarks:

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



RF Mode	TX 802.11ac (VHT40)	Channel	CH 159 : 5795 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.00	58.5 PK	68.2	-9.7	3.43 H	349	55.5	3.0
2	*5795.00	111.1 PK			3.43 H	349	69.5	41.6
3	*5795.00	101.5 AV			3.43 H	349	59.9	41.6
4	#5935.20	59.5 PK	68.2	-8.7	3.43 H	349	55.8	3.7
5	11590.00	56.8 PK	74.0	-17.2	1.85 H	89	48.2	8.6
6	11590.00	43.8 AV	54.0	-10.2	1.85 H	89	35.2	8.6
7	#17385.00	66.6 PK	68.2	-1.6	1.95 H	18	57.5	9.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.00	58.3 PK	68.2	-9.9	3.58 V	157	55.3	3.0
2	*5795.00	109.8 PK			3.58 V	157	68.2	41.6
3	*5795.00	99.8 AV			3.58 V	157	58.2	41.6
4	#5958.80	59.3 PK	68.2	-8.9	3.58 V	157	55.6	3.7
5	11590.00	58.7 PK	74.0	-15.3	2.12 V	110	50.1	8.6
6	11590.00	45.5 AV	54.0	-8.5	2.12 V	110	36.9	8.6
7	#17385.00	62.1 PK	68.2	-6.1	1.49 V	2	53.0	9.1

Remarks:

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

RF Mode	TX 802.11ac (VHT80)	Channel	CH 42 : 5210 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.3 PK	74.0	-7.7	2.10 H	350	64.5	1.8
2	5150.00	53.2 AV	54.0	-0.8	2.10 H	350	51.4	1.8
3	*5210.00	100.9 PK			2.10 H	350	60.9	40.0
4	*5210.00	91.8 AV			2.10 H	350	51.8	40.0
5	5350.00	58.3 PK	74.0	-15.7	2.10 H	350	56.5	1.8
6	5350.00	47.0 AV	54.0	-7.0	2.10 H	350	45.2	1.8
7	#10420.00	54.6 PK	68.2	-13.6	2.02 H	315	46.5	8.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.4 PK	74.0	-8.6	2.16 V	156	63.6	1.8
2	5150.00	53.2 AV	54.0	-0.8	2.16 V	156	51.4	1.8
3	*5210.00	100.3 PK			2.16 V	156	60.3	40.0
4	*5210.00	91.4 AV			2.16 V	156	51.4	40.0
5	5350.00	57.6 PK	74.0	-16.4	2.16 V	156	55.8	1.8
6	5350.00	46.6 AV	54.0	-7.4	2.16 V	156	44.8	1.8
7	#10420.00	54.4 PK	68.2	-13.8	2.12 V	312	46.3	8.1

Remarks:

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

RF Mode	TX 802.11ac (VHT80)	Channel	CH 58 : 5290 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4800.00	57.1 PK	74.0	-16.9	1.99 H	348	55.6	1.5
2	4800.00	47.5 AV	54.0	-6.5	1.99 H	348	46.0	1.5
3	*5290.00	102.2 PK			1.99 H	348	62.2	40.0
4	*5290.00	92.5 AV			1.99 H	348	52.5	40.0
5	5350.00	66.3 PK	74.0	-7.7	1.99 H	348	64.5	1.8
6	5350.00	52.3 AV	54.0	-1.7	1.99 H	348	50.5	1.8
7	#10580.00	56.5 PK	68.2	-11.7	2.07 H	330	48.4	8.1

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	4800.00	57.0 PK	74.0	-17.0	2.14 V	156	55.5	1.5
2	4800.00	46.0 AV	54.0	-8.0	2.14 V	156	44.5	1.5
3	*5290.00	102.0 PK			2.14 V	156	62.0	40.0
4	*5290.00	92.4 AV			2.14 V	156	52.4	40.0
5	5350.00	66.1 PK	74.0	-7.9	2.14 V	156	64.3	1.8
6	5350.00	50.8 AV	54.0	-3.2	2.14 V	156	49.0	1.8
7	#10580.00	56.3 PK	68.2	-11.9	2.33 V	199	48.2	8.1

Remarks:

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

RF Mode	TX 802.11ac (VHT80)	Channel	CH 106 : 5530 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.1 PK	74.0	-9.9	3.07 H	352	62.0	2.1
2	5460.00	52.3 AV	54.0	-1.7	3.07 H	352	50.2	2.1
3	#5470.00	65.9 PK	68.2	-2.3	3.07 H	352	63.8	2.1
4	*5530.00	102.2 PK			3.07 H	352	61.6	40.6
5	*5530.00	92.9 AV			3.07 H	352	52.3	40.6
6	#5725.00	58.8 PK	68.2	-9.4	3.07 H	352	55.5	3.3
7	11060.00	56.1 PK	74.0	-17.9	2.09 H	324	47.9	8.2
8	11060.00	43.9 AV	54.0	-10.1	2.09 H	324	35.7	8.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.4 PK	74.0	-11.6	3.60 V	193	60.3	2.1
2	5460.00	49.8 AV	54.0	-4.2	3.60 V	193	47.7	2.1
3	#5470.00	64.9 PK	68.2	-3.3	3.60 V	193	62.8	2.1
4	*5530.00	100.3 PK			3.60 V	193	59.7	40.6
5	*5530.00	90.4 AV			3.60 V	193	49.8	40.6
6	#5725.00	58.9 PK	68.2	-9.3	3.60 V	193	55.6	3.3
7	11060.00	55.9 PK	74.0	-18.1	2.28 V	209	47.7	8.2
8	11060.00	43.6 AV	54.0	-10.4	2.28 V	209	35.4	8.2

Remarks:

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

RF Mode	TX 802.11ac (VHT80)	Channel	CH 122 : 5610 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.3 PK	74.0	-10.7	3.04 H	349	61.2	2.1
2	5460.00	51.0 AV	54.0	-3.0	3.04 H	349	48.9	2.1
3	#5470.00	64.9 PK	68.2	-3.3	3.04 H	349	62.8	2.1
4	*5610.00	112.6 PK			3.04 H	349	71.8	40.8
5	*5610.00	103.0 AV			3.04 H	349	62.2	40.8
6	#5725.00	67.1 PK	68.2	-1.1	3.04 H	349	63.8	3.3
7	11220.00	56.4 PK	74.0	-17.6	2.06 H	326	48.2	8.2
8	11220.00	44.1 AV	54.0	-9.9	2.06 H	326	35.9	8.2

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	71.8 PK	74.0	-2.2	3.67 V	194	69.7	2.1
2	5460.00	49.3 AV	54.0	-4.7	3.67 V	194	47.2	2.1
3	#5470.00	62.9 PK	68.2	-5.3	3.67 V	194	60.8	2.1
4	*5610.00	105.4 PK			3.68 V	194	64.6	40.8
5	*5610.00	95.9 AV			3.68 V	194	55.1	40.8
6	#5725.00	65.3 PK	68.2	-2.9	3.67 V	194	62.0	3.3
7	11220.00	56.1 PK	74.0	-17.9	2.31 V	204	47.9	8.2
8	11220.00	43.8 AV	54.0	-10.2	2.31 V	204	35.6	8.2

Remarks:

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

RF Mode	TX 802.11ac (VHT80)	Channel	CH 138 : 5690 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	59.0 PK	68.2	-9.2	2.97 H	348	56.9	2.1
2	*5690.00	108.7 PK			2.97 H	348	67.5	41.2
3	*5690.00	99.1 AV			2.97 H	348	57.9	41.2
4	#5850.00	62.4 PK	68.2	-5.8	2.97 H	348	58.8	3.6
5	11380.00	57.1 PK	74.0	-16.9	2.17 H	334	48.3	8.8
6	11380.00	44.8 AV	54.0	-9.2	2.17 H	334	36.0	8.8

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	59.1 PK	68.2	-9.1	3.60 V	194	57.0	2.1
2	*5690.00	105.8 PK			3.60 V	194	64.6	41.2
3	*5690.00	96.6 AV			3.60 V	194	55.4	41.2
4	#5850.00	60.1 PK	68.2	-8.1	3.60 V	194	56.5	3.6
5	11380.00	56.8 PK	74.0	-17.2	2.34 V	210	48.0	8.8
6	11380.00	44.5 AV	54.0	-9.5	2.34 V	210	35.7	8.8

Remarks:

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

RF Mode	TX 802.11ac (VHT80)	Channel	CH 155 : 5775 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.80	67.3 PK	68.2	-0.9	3.00 H	347	64.3	3.0
2	#5650.00	67.6 PK	68.2	-0.6	3.00 H	347	64.5	3.1
3	*5775.00	108.3 PK			3.00 H	347	66.8	41.5
4	*5775.00	98.8 AV			3.00 H	347	57.3	41.5
5	#5925.00	63.0 PK	68.2	-5.2	3.00 H	347	59.2	3.8
6	#5927.20	63.1 PK	68.2	-5.1	3.00 H	347	59.4	3.7
7	11550.00	57.2 PK	74.0	-16.8	1.85 H	89	48.5	8.7
8	11550.00	45.2 AV	54.0	-8.8	1.85 H	89	36.5	8.7
9	#17325.00	64.1 PK	68.2	-4.1	1.98 H	20	55.0	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5643.20	65.0 PK	68.2	-3.2	3.44 V	155	62.0	3.0
2	#5650.00	65.8 PK	68.2	-2.4	3.44 V	155	62.7	3.1
3	*5775.00	106.4 PK			3.44 V	155	64.9	41.5
4	*5775.00	96.9 AV			3.44 V	155	55.4	41.5
5	#5925.00	61.7 PK	68.2	-6.5	3.44 V	155	57.9	3.8
6	#5954.80	60.5 PK	68.2	-7.7	3.44 V	155	56.8	3.7
7	11550.00	59.0 PK	74.0	-15.0	2.07 V	102	50.3	8.7
8	11550.00	46.6 AV	54.0	-7.4	2.07 V	102	37.9	8.7
9	#17325.00	61.4 PK	68.2	-6.8	1.53 V	359	52.3	9.1

Remarks:

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

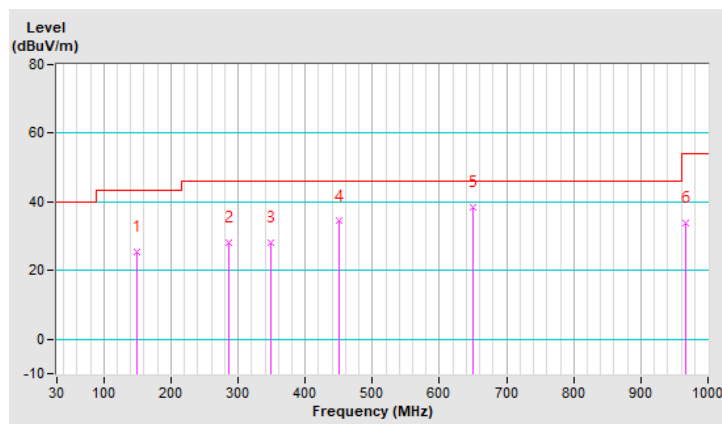
Below 1GHz Worst-Case Data:

RF Mode	TX 802.11ac (VHT20)	Channel	CH 116 : 5580 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	149.49	25.3 QP	43.5	-18.2	1.99 H	99	43.3	-18.0
2	285.86	28.0 QP	46.0	-18.0	1.01 H	6	45.9	-17.9
3	349.12	28.3 QP	46.0	-17.7	1.49 H	2	44.9	-16.6
4	450.33	34.4 QP	46.0	-11.6	1.99 H	147	47.9	-13.5
5	649.96	38.4 QP	46.0	-7.6	1.49 H	2	48.1	-9.7
6	966.26	34.0 QP	54.0	-20.0	1.49 H	2	39.3	-5.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



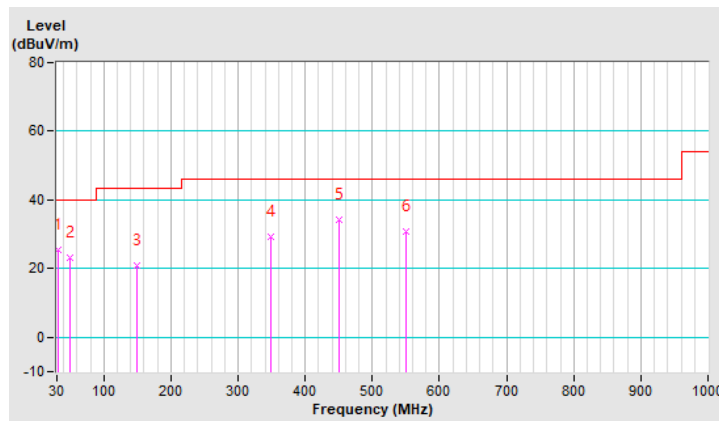


RF Mode	TX 802.11ac (VHT20)	Channel	CH 116 : 5580 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	A		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	32.81	25.6 QP	40.0	-14.4	1.50 V	244	45.1	-19.5
2	49.68	23.1 QP	40.0	-16.9	1.01 V	49	41.3	-18.2
3	149.49	21.0 QP	43.5	-22.5	1.01 V	349	39.0	-18.0
4	349.12	29.1 QP	46.0	-16.9	1.50 V	312	45.7	-16.6
5	450.33	34.1 QP	46.0	-11.9	1.50 V	264	47.6	-13.5
6	550.14	30.7 QP	46.0	-15.3	1.01 V	165	42.7	-12.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

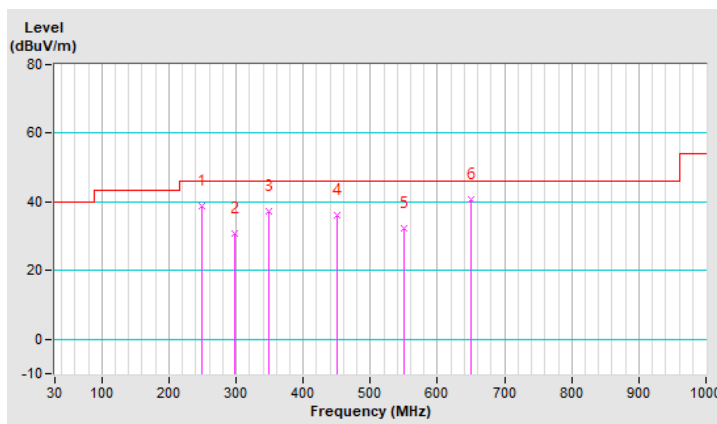


RF Mode	TX 802.11ac (VHT20)	Channel	CH 116 : 5580 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	B		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	249.30	39.0 QP	46.0	-7.0	1.00 H	174	58.5	-19.5
2	298.51	30.8 QP	46.0	-15.2	1.00 H	179	48.5	-17.7
3	349.12	37.2 QP	46.0	-8.8	1.00 H	2	53.8	-16.6
4	450.33	36.1 QP	46.0	-9.9	1.49 H	131	49.6	-13.5
5	550.14	32.2 QP	46.0	-13.8	2.00 H	166	44.2	-12.0
6	649.96	40.6 QP	46.0	-5.4	1.49 H	18	50.3	-9.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

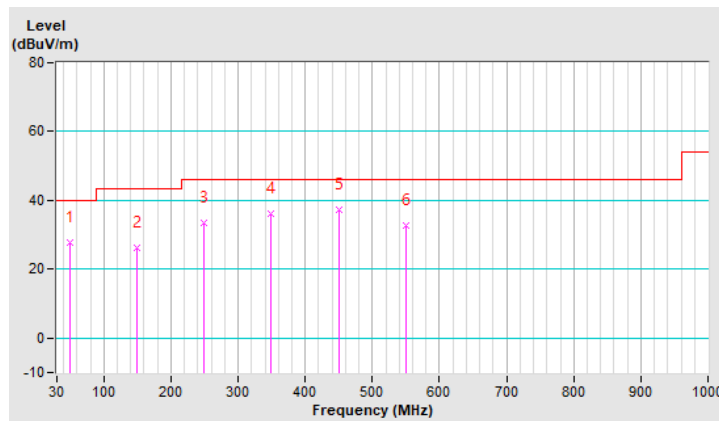


RF Mode	TX 802.11ac (VHT20)	Channel	CH 116 : 5580 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	B		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	49.68	27.7 QP	40.0	-12.3	1.01 V	18	45.9	-18.2
2	149.49	26.4 QP	43.5	-17.1	1.01 V	25	44.4	-18.0
3	249.30	33.6 QP	46.0	-12.4	2.00 V	191	53.1	-19.5
4	349.12	36.1 QP	46.0	-9.9	1.01 V	18	52.7	-16.6
5	450.33	37.4 QP	46.0	-8.6	2.00 V	340	50.9	-13.5
6	550.14	32.6 QP	46.0	-13.4	1.01 V	112	44.6	-12.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m).
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB).
3. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



## 4.2 Conducted Emission Measurement

### 4.2.1 Limits of Conducted Emission Measurement

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

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

### 4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESR3	102783	Dec. 21, 2020	Dec. 20, 2021
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond2-01	Sep. 04, 2021	Sep. 03, 2022
LISN/AMN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Jan. 28, 2021	Jan. 27, 2022
LISN/AMN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Sep. 17, 2021	Sep. 16, 2022
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

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

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

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

#### 4.2.3 Test Procedures

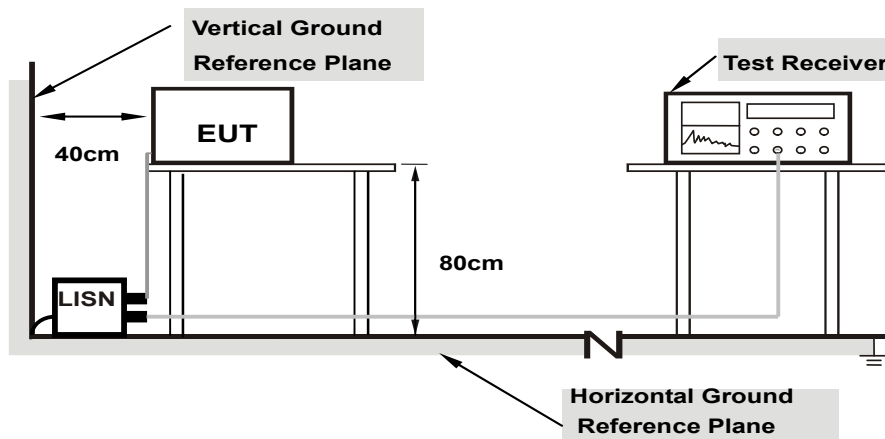
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

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

#### 4.2.4 Deviation from Test Standard

No deviation.

#### 4.2.5 Test Setup



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

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

#### 4.2.6 EUT Operating Conditions

Same as 4.1.6.

#### 4.2.7 Test Results

Worst-case data:

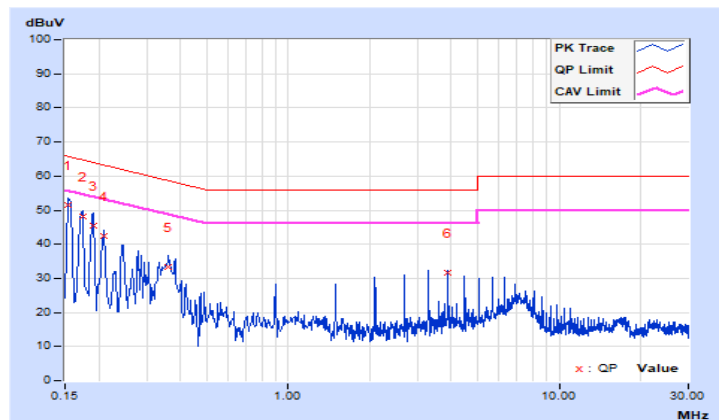
802.11ac (VHT20)

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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	<b>0.15400</b>	<b>10.12</b>	<b>41.40</b>	<b>22.70</b>	<b>51.52</b>	<b>32.82</b>	<b>65.78</b>
2	0.17384	10.13	38.09	19.14	48.22	29.27	64.77	54.77	-16.55	-25.50
3	0.19000	10.14	35.40	16.94	45.54	27.08	64.04	54.04	-18.50	-26.96
4	0.21000	10.15	32.43	15.45	42.58	25.60	63.21	53.21	-20.63	-27.61
5	0.36200	10.21	23.22	16.38	33.43	26.59	58.68	48.68	-25.25	-22.09
6	3.88600	10.39	21.24	19.10	31.63	29.49	56.00	46.00	-24.37	-16.51

Remarks:

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

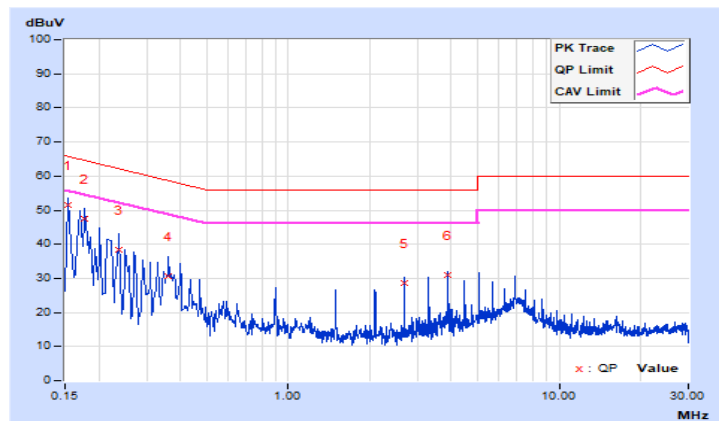


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15400	10.14	41.26	22.93	51.40	33.07	65.78
2	0.17800	10.16	37.31	19.17	47.47	29.33	64.58	54.58	-17.11	-25.25
3	0.23800	10.18	28.23	11.39	38.41	21.57	62.17	52.17	-23.76	-30.60
4	0.36200	10.23	20.42	13.36	30.65	23.59	58.68	48.68	-28.03	-25.09
5	2.69000	10.37	18.30	16.84	28.67	27.21	56.00	46.00	-27.33	-18.79
6	3.88600	10.41	20.42	18.13	30.83	28.54	56.00	46.00	-25.17	-17.46

Remarks:

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

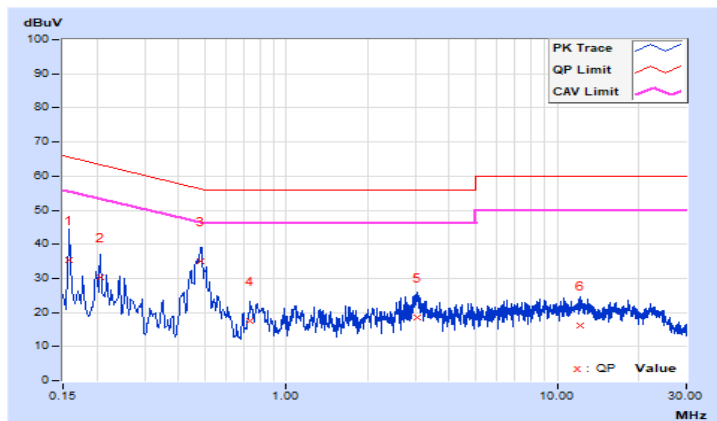


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15800	10.11	25.20	2.51	35.31	12.62	65.57
2	0.20600	10.13	20.03	1.85	30.16	11.98	63.37	53.37	-33.21	-41.39
3	0.48572	10.14	24.75	9.43	34.89	19.57	56.24	46.24	-21.35	-26.67
4	0.73400	10.16	7.24	3.69	17.40	13.85	56.00	46.00	-38.60	-32.15
5	3.05400	10.23	8.30	2.35	18.53	12.58	56.00	46.00	-37.47	-33.42
6	12.19800	10.36	5.92	1.52	16.28	11.88	60.00	50.00	-43.72	-38.12

Remarks:

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



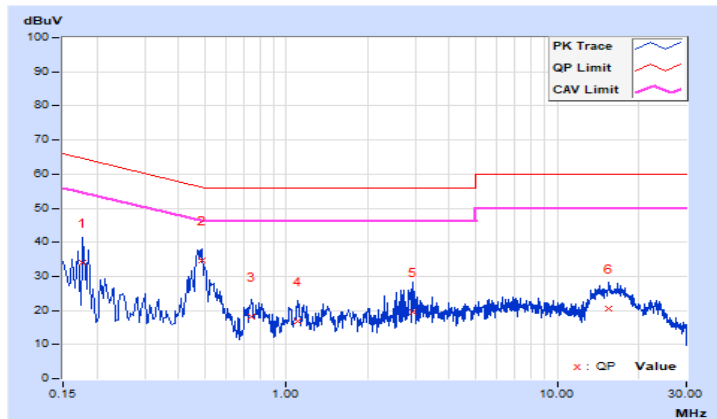


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.17800	10.13	23.89	1.07	34.02	11.20	64.58
2	0.48600	10.15	24.64	11.62	34.79	21.77	56.24	46.24	-21.45	-24.47
3	0.74200	10.17	8.01	2.41	18.18	12.58	56.00	46.00	-37.82	-33.42
4	1.10200	10.18	6.75	3.98	16.93	14.16	56.00	46.00	-39.07	-31.84
5	2.93800	10.25	9.41	2.66	19.66	12.91	56.00	46.00	-36.34	-33.09
6	15.55400	10.55	9.91	1.36	20.46	11.91	60.00	50.00	-39.54	-38.09

Remarks:

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



### 4.3 Transmit Power Measurement

#### 4.3.1 Limits of Transmit Power Measurement

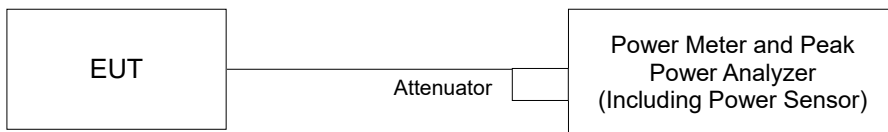
Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client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

\*B is the 26 dB emission bandwidth in megahertz

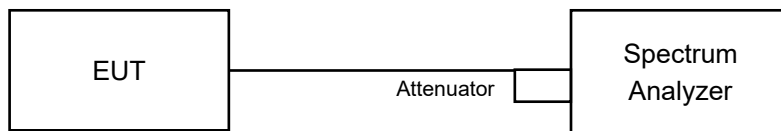
#### 4.3.2 Test Setup

For Power Output

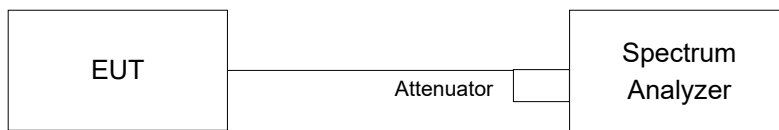
For 802.11a, 802.11n (HT20), 802.11n (HT40), 802.11ac (VHT20), 802.11ac (VHT40)



For 802.11ac (VHT80) and straddle channels



For 26dB Bandwidth



#### 4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.3.4 Test Procedure

##### For Average Power Measurement

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

##### For 802.11a, 802.11n (HT20), 802.11n (HT40), 802.11ac (VHT20), 802.11ac (VHT40)

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. Duty factor is not added to measured value.

##### For 802.11ac (VHT80) and straddle channels

Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep):

- a. Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- b. Set RBW = 1 MHz.
- c. Set VBW  $\geq$  3 MHz.
- d. Number of points in sweep  $\geq 2 \times$  span / RBW. (This ensures that bin-to-bin spacing is  $\leq$  RBW/2, so that narrowband signals are not lost between frequency bins.)
- e. Sweep time = auto.
- f. Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
- g. If transmit duty cycle  $<$  98%, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle  $\geq$  98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
- h. Trace average at least 100 traces in power averaging (rms) mode.
- i. Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

##### For 26dB Bandwidth

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

#### 4.3.5 Deviation from Test Standard

No deviation.

#### 4.3.6 EUT Operating Conditions

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

#### 4.3.7 Test Result

Power Output:  
802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	19.187	12.83	24.00	Pass
40	5200	18.707	12.72	24.00	Pass
48	5240	19.055	12.80	24.00	Pass
52	5260	19.498	12.90	24.00	Pass
60	5300	19.187	12.83	24.00	Pass
64	5320	18.621	12.70	24.00	Pass
100	5500	19.187	12.83	24.00	Pass
116	5580	19.498	12.90	24.00	Pass
140	5700	18.967	12.78	24.00	Pass
144	5720 (For U-NII-2C)	15.478	11.90	24.00	Pass
144	5720 (For U-NII-3)	3.046	4.84	30.00	Pass
149	5745	18.578	12.69	30.00	Pass
157	5785	18.880	12.76	30.00	Pass
165	5825	18.621	12.70	30.00	Pass

Note:

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

1.  $11\text{dBm} + 10\log(47.60) = 27.77 > 24\text{dBm}$
2.  $11\text{dBm} + 10\log(48.03) = 27.81 > 24\text{dBm}$
3.  $11\text{dBm} + 10\log(21.87) = 24.39 > 24\text{dBm}$
4.  $11\text{dBm} + 10\log(21.40) = 24.30 > 24\text{dBm}$
5.  $11\text{dBm} + 10\log(48.81) = 27.88 > 24\text{dBm}$
6.  $11\text{dBm} + 10\log(21.72) = 24.36 > 24\text{dBm}$
7.  $11\text{dBm} + 10\log(5725.00 - 5699.11) = 25.13 > 24\text{dBm}$

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	19.454	12.89	24.00	Pass
40	5200	19.498	12.90	24.00	Pass
48	5240	<b>19.724</b>	12.95	24.00	Pass
52	5260	<b>19.861</b>	12.98	24.00	Pass
60	5300	19.187	12.83	24.00	Pass
64	5320	19.055	12.80	24.00	Pass
100	5500	<b>19.861</b>	12.98	24.00	Pass
116	5580	18.408	12.65	24.00	Pass
140	5700	19.099	12.81	24.00	Pass
144	5720 (For U-NII-2C)	17.088	12.33	24.00	Pass
144	5720 (For U-NII-3)	2.708	4.33	30.00	Pass
149	5745	19.187	12.83	30.00	Pass
157	5785	19.055	12.80	30.00	Pass
165	5825	18.750	12.73	30.00	Pass

Note:

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

- $11\text{dBm} + 10\log(49.75) = 27.96 > 24\text{dBm}$
- $11\text{dBm} + 10\log(40.62) = 27.08 > 24\text{dBm}$
- $11\text{dBm} + 10\log(25.09) = 24.99 > 24\text{dBm}$
- $11\text{dBm} + 10\log(22.09) = 24.44 > 24\text{dBm}$
- $11\text{dBm} + 10\log(53.61) = 28.29 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.97) = 24.41 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5697.72) = 25.35 > 24\text{dBm}$

## 802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	18.707	12.72	24.00	Pass
46	5230	18.750	12.73	24.00	Pass
54	5270	18.707	12.72	24.00	Pass
62	5310	19.099	12.81	24.00	Pass
102	5510	18.535	12.68	24.00	Pass
110	5550	<b>19.861</b>	12.98	24.00	Pass
134	5670	19.275	12.85	24.00	Pass
142	5710 (For U-NII-2C)	16.559	12.19	24.00	Pass
142	5710 (For U-NII-3)	1.337	1.26	30.00	Pass
151	5755	<b>19.815</b>	12.97	30.00	Pass
159	5795	19.320	12.86	30.00	Pass

Note:

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

- $11\text{dBm} + 10\log(69.55) = 29.42 > 24\text{dBm}$
- $11\text{dBm} + 10\log(41.42) = 27.17 > 24\text{dBm}$
- $11\text{dBm} + 10\log(41.53) = 27.18 > 24\text{dBm}$
- $11\text{dBm} + 10\log(58.40) = 28.66 > 24\text{dBm}$
- $11\text{dBm} + 10\log(52.55) = 28.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5662.33) = 28.97 > 24\text{dBm}$

## 802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	11.561	10.63	24.00	Pass
58	5290	16.069	12.06	24.00	Pass
106	5530	17.258	12.37	24.00	Pass
122	5610	19.231	12.84	24.00	Pass
138	5690 (For U-NII-2C)	18.735	12.73	24.00	Pass
138	5690 (For U-NII-3)	0.674	-1.71	30.00	Pass
155	5775	18.967	12.78	30.00	Pass

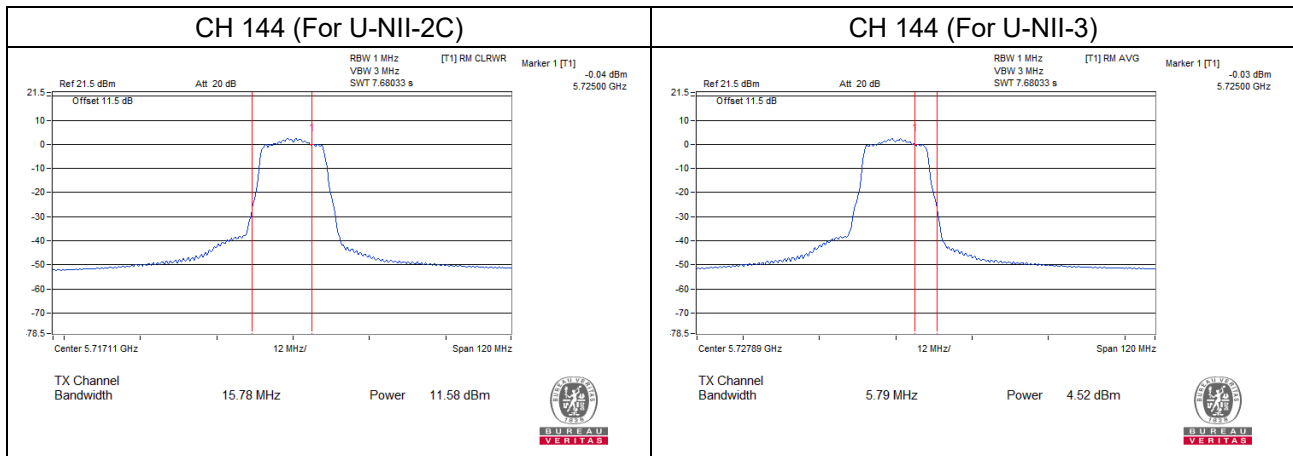
Note:

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

- $11\text{dBm} + 10\log(82.81) = 30.18 > 24\text{dBm}$
- $11\text{dBm} + 10\log(82.30) = 30.15 > 24\text{dBm}$
- $11\text{dBm} + 10\log(98.86) = 30.95 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5628.24) = 30.85 > 24\text{dBm}$

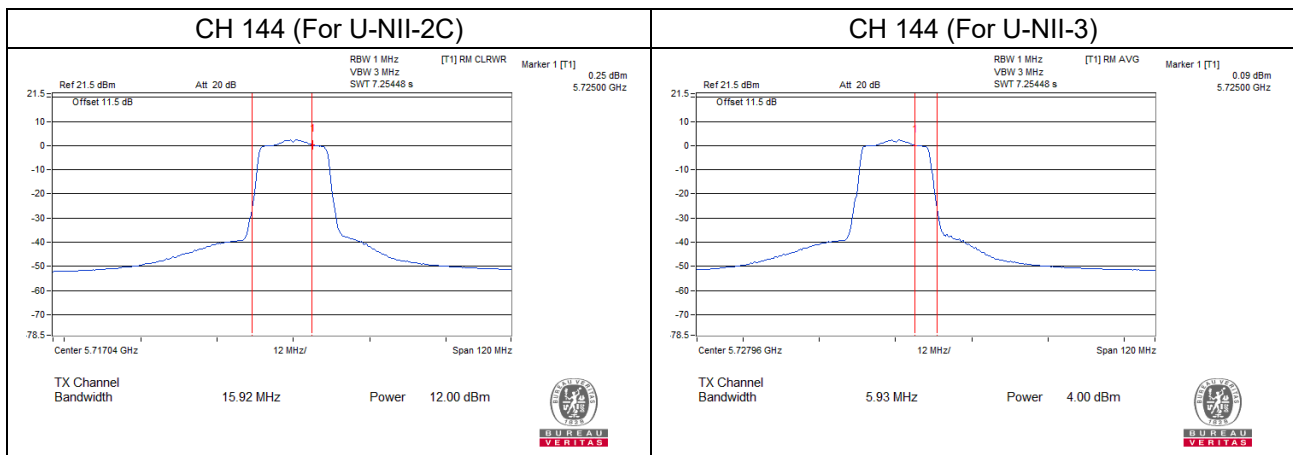
**Straddle channel power plots:**

802.11a



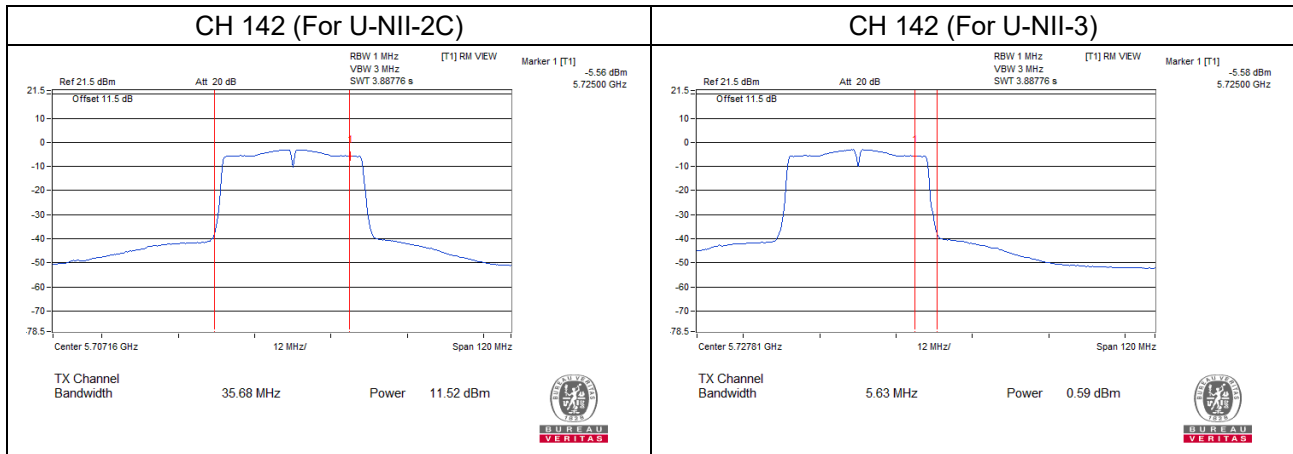
\* Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test, the duty factor was included in the total power.

802.11ac (VHT20)



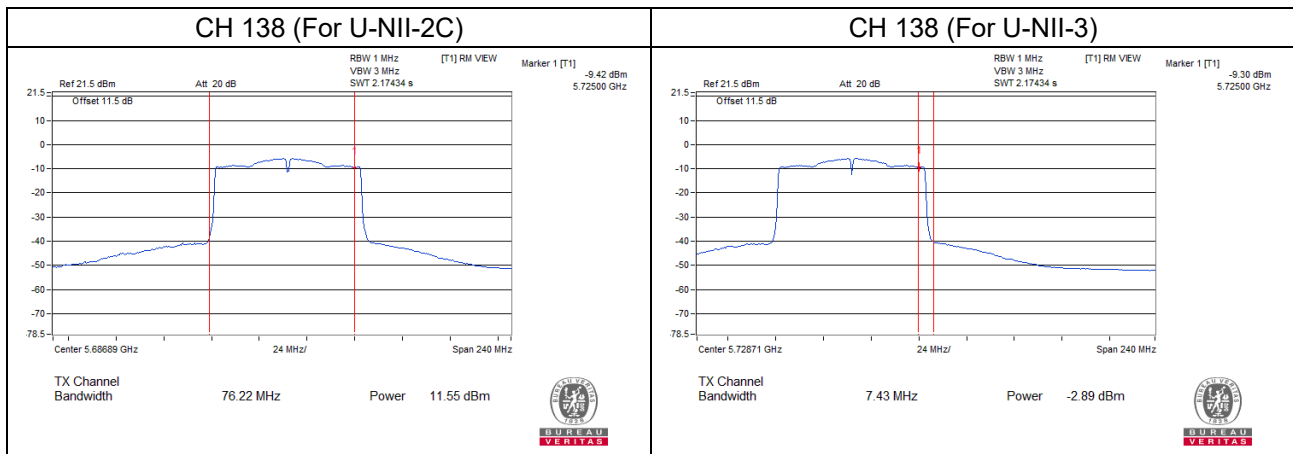
\* Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test, the duty factor was included in the total power.

802.11ac (VHT40)



\* Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test, the duty factor was included in the total power.

802.11ac (VHT80)



\* Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test, the duty factor was included in the total power.



26dB Bandwidth:

802.11a

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)
52	5260	47.60
60	5300	48.03
64	5320	21.87
100	5500	21.40
116	5580	48.81
140	5700	21.72
144	5720 (For U-NII-2C)	25.89

802.11ac (VHT20)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)
52	5260	49.75
60	5300	40.62
64	5320	25.09
100	5500	22.09
116	5580	53.61
140	5700	21.97
144	5720 (For U-NII-2C)	27.28

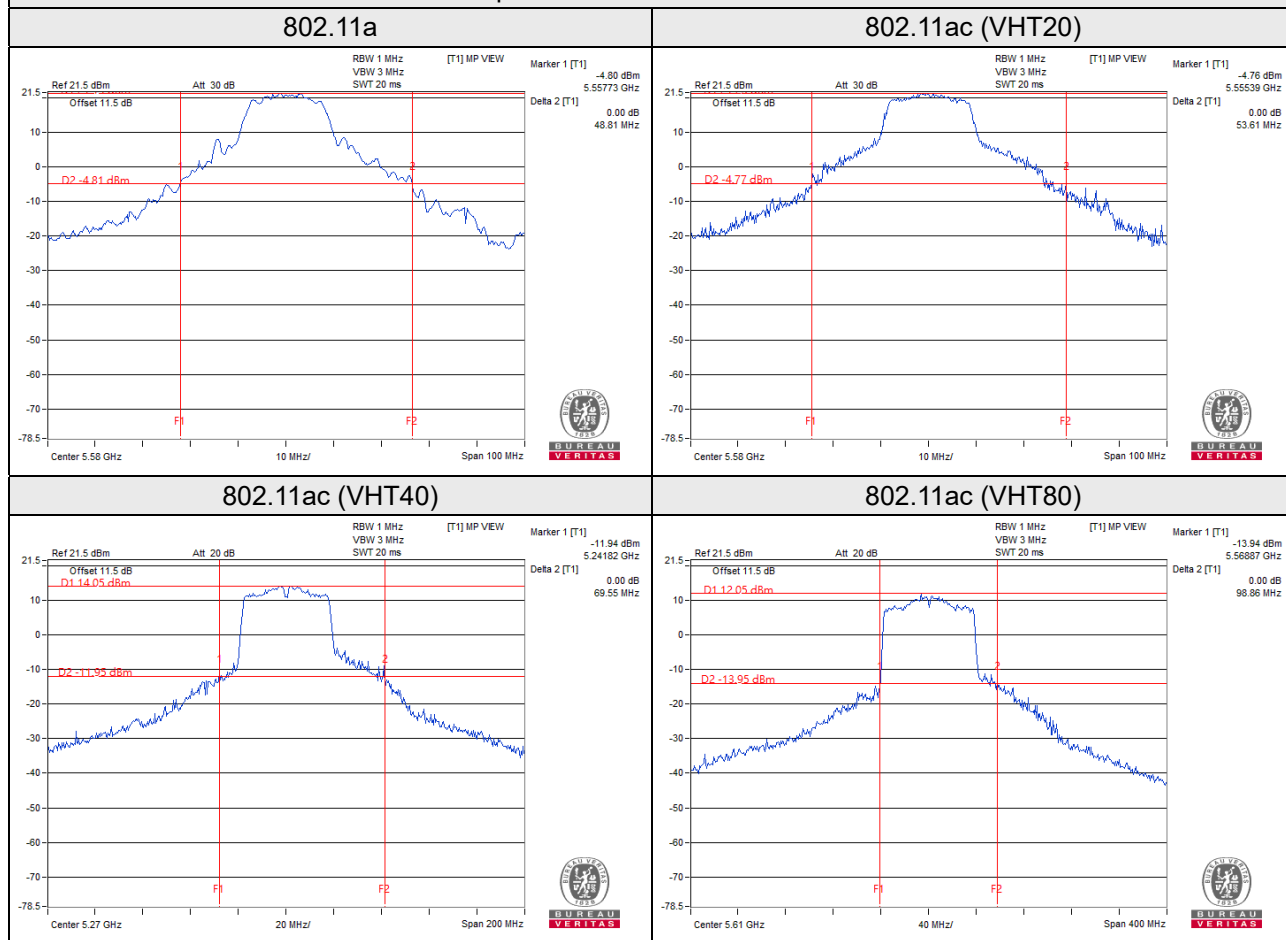
802.11ac (VHT40)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)
54	5270	69.55
62	5310	41.42
102	5510	41.53
110	5550	58.40
134	5670	52.55
142	5710 (For U-NII-2C)	62.67

802.11ac (VHT80)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)
58	5290	82.81
106	5530	82.30
122	5610	98.86
138	5690 (For U-NII-2C)	96.76

Spectrum Plot of Worst Value



## EUT Average Power

### 802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	19.498	12.90
5470~5725	19.498	12.90

### 802.11ac (VHT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	19.861	12.98
5470~5725	19.861	12.98

### 802.11ac (VHT40)

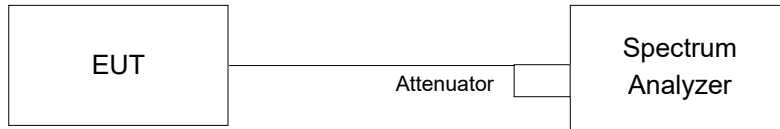
Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	19.099	12.81
5470~5725	19.861	12.98

### 802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	16.069	12.06
5470~5725	19.231	12.84

## 4.4 Occupied Bandwidth Measurement

### 4.4.1 Test Setup



### 4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

#### 4.4.4 Test Result

##### 802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	17.04
40	5200	17.52
48	5240	18.53
52	5260	26.64
60	5300	27.24
64	5320	16.92
100	5500	16.92
116	5580	28.92
140	5700	16.92
144	5720 (For U-NII-2C)	19.40
144	5720 (For U-NII-3)	9.88
149	5745	18.95
157	5785	18.95
165	5825	17.64

##### 802.11ac (VHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	18.00
40	5200	18.36
48	5240	18.72
52	5260	27.24
60	5300	18.96
64	5320	18.12
100	5500	18.00
116	5580	29.40
140	5700	17.88
144	5720 (For U-NII-2C)	19.52
144	5720 (For U-NII-3)	10.48
149	5745	18.66
157	5785	18.56
165	5825	18.66

802.11ac (VHT40)

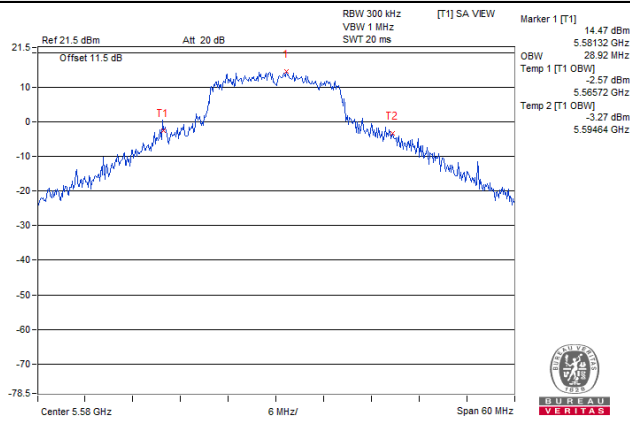
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
38	5190	36.48
46	5230	36.84
54	5270	36.84
62	5310	36.48
102	5510	36.48
110	5550	36.72
134	5670	36.72
142	5710 (For U-NII-2C)	37.44
142	5710 (For U-NII-3)	8.76
151	5755	36.84
159	5795	37.08

802.11ac (VHT80)

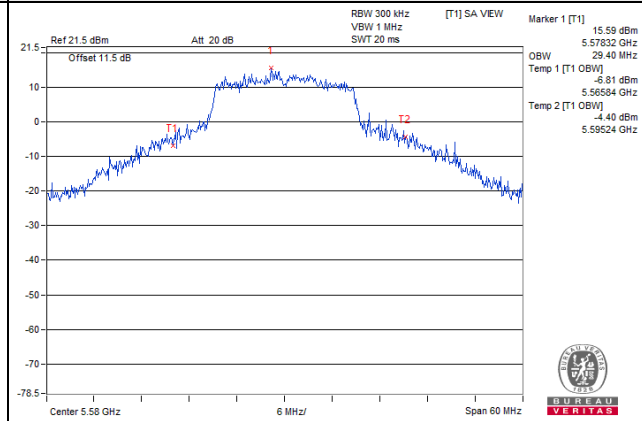
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
42	5210	75.60
58	5290	75.60
106	5530	75.84
122	5610	75.84
138	5690 (For U-NII-2C)	73.16
138	5690 (For U-NII-3)	3.40
155	5775	75.96

### Spectrum Plot of Worst Value

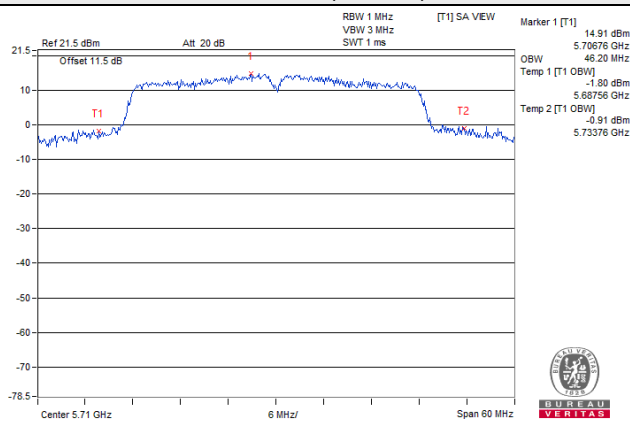
#### 802.11a



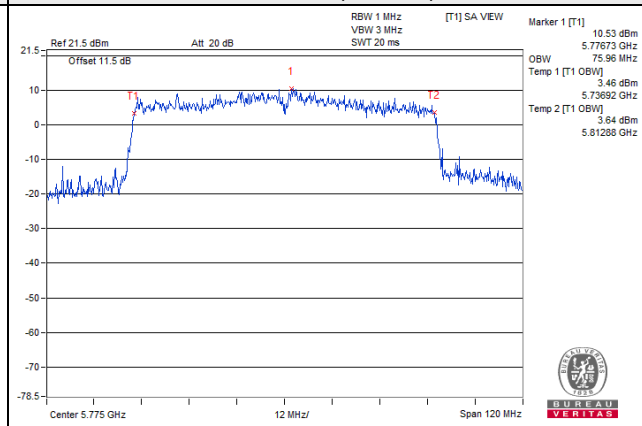
#### 802.11ac (VHT20)



#### 802.11ac (VHT40)

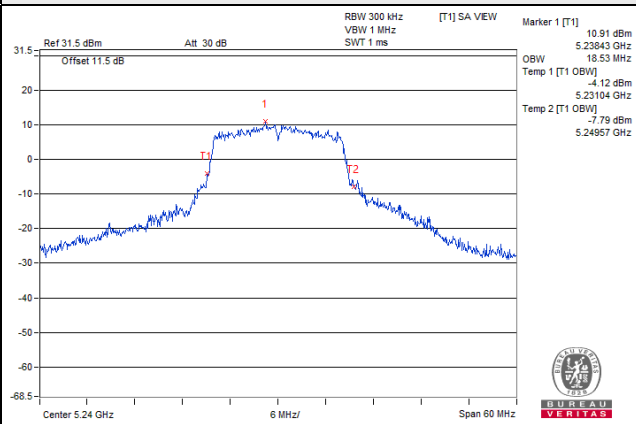


#### 802.11ac (VHT80)

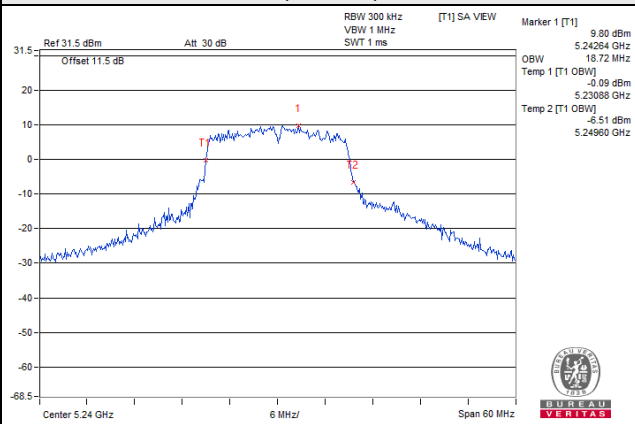


Spectrum Plot for near By DFS Band

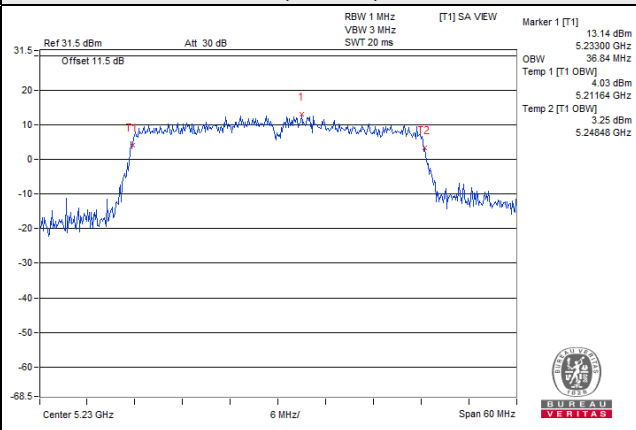
802.11a / CH 48



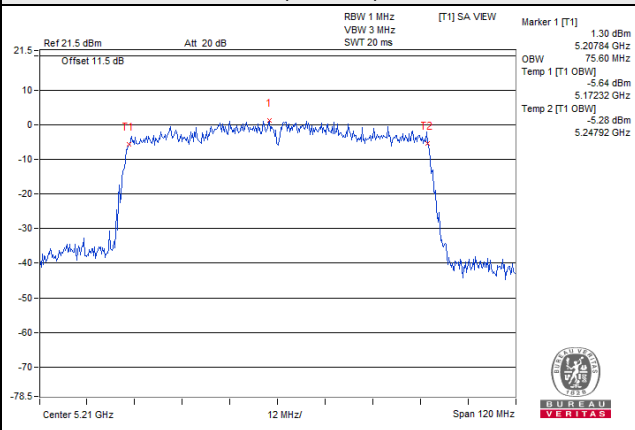
802.11ac (VHT20) / CH 48



802.11ac (VHT40) / CH 46



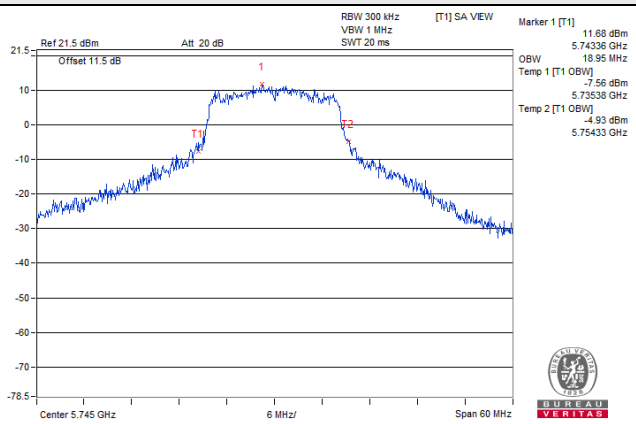
802.11ac (VHT80) / CH 42



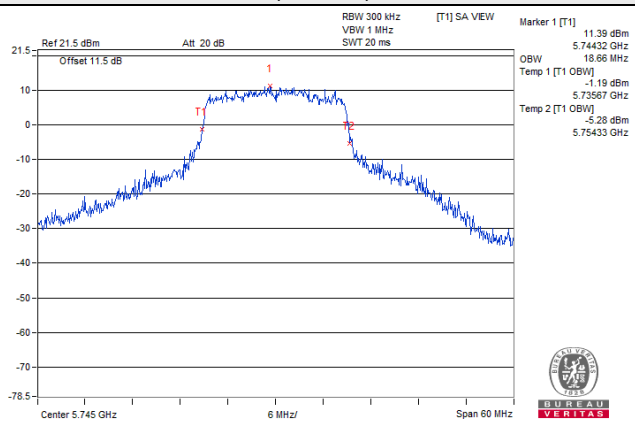


Spectrum Plot for near By DFS Band

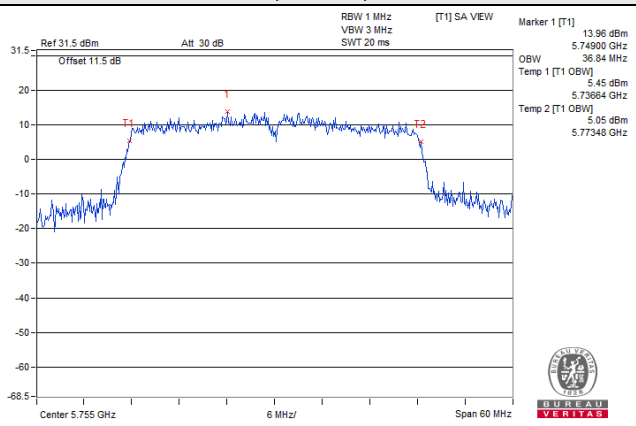
802.11a / CH 149



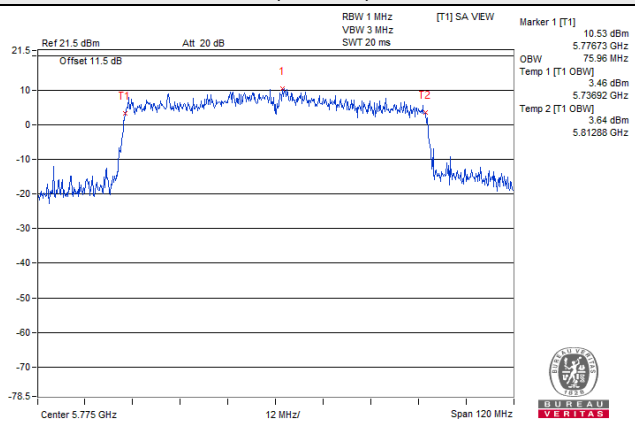
802.11ac (VHT20) / CH 149



802.11ac (VHT40) / CH 151



802.11ac (VHT80) / CH 155

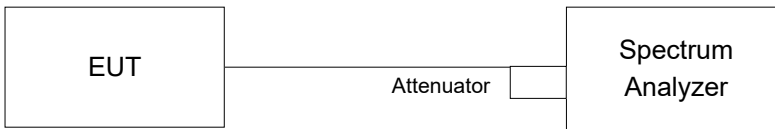


## 4.5 Peak Power Spectral Density Measurement

### 4.5.1 Limits of Peak Power Spectral Density Measurement

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

### 4.5.2 Test Setup



### 4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.5.4 Test Procedures

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

Duty cycle of test signal is < 98%

Using method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1MHz, Set VBW ≥ 3 MHz, Detector = RMS
- Set Channel power measure = 1MHz
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle)

For U-NII-3 band:

Duty cycle of test signal is < 98%

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

#### 4.5.5 Deviation from Test Standard

No deviation.

#### 4.5.6 EUT Operating Conditions

Same as 4.3.6.

#### 4.5.7 Test Results

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

##### 802.11a

Chan.	Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
36	5180	-0.21	0.32	0.11	11.00	Pass
40	5200	-0.23	0.32	0.09	11.00	Pass
48	5240	-0.24	0.32	0.08	11.00	Pass
52	5260	-0.17	0.32	0.15	11.00	Pass
60	5300	-0.18	0.32	0.14	11.00	Pass
64	5320	-0.35	0.32	-0.03	11.00	Pass
100	5500	-0.26	0.32	0.06	11.00	Pass
116	5580	-0.10	0.32	0.22	11.00	Pass
140	5700	-0.26	0.32	0.06	11.00	Pass
144	5720 (For U-NII-2C)	-0.26	0.32	0.06	11.00	Pass

##### 802.11ac (VHT20)

Chan.	Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
36	5180	-0.10	0.33	0.23	11.00	Pass
40	5200	-0.03	0.33	0.30	11.00	Pass
48	5240	-0.13	0.33	0.20	11.00	Pass
52	5260	-0.10	0.33	0.23	11.00	Pass
60	5300	-0.09	0.33	0.24	11.00	Pass
64	5320	-0.28	0.33	0.05	11.00	Pass
100	5500	-0.16	0.33	0.17	11.00	Pass
116	5580	-0.37	0.33	-0.04	11.00	Pass
140	5700	-0.26	0.33	0.07	11.00	Pass
144	5720 (For U-NII-2C)	-0.06	0.33	0.27	11.00	Pass

802.11ac (VHT40)

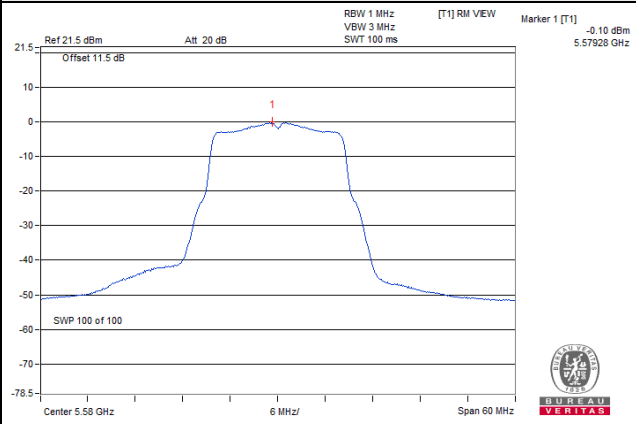
Chan.	Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
38	5190	-3.30	0.67	-2.63	11.00	Pass
46	5230	-3.39	0.67	-2.72	11.00	Pass
54	5270	-3.36	0.67	-2.69	11.00	Pass
62	5310	-3.20	0.67	-2.53	11.00	Pass
102	5510	-3.39	0.67	-2.72	11.00	Pass
110	5550	-3.07	0.67	-2.40	11.00	Pass
134	5670	-3.21	0.67	-2.54	11.00	Pass
142	5710 (For U-NII-2C)	-3.28	0.67	-2.61	11.00	Pass

802.11ac (VHT80)

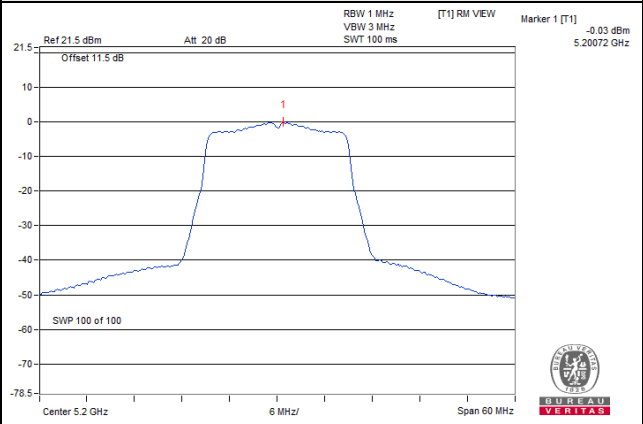
Chan.	Freq. (MHz)	PSD (dBm/MHz)	Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
42	5210	-8.43	1.18	-7.25	11.00	Pass
58	5290	-6.88	1.18	-5.70	11.00	Pass
106	5530	-6.75	1.18	-5.57	11.00	Pass
122	5610	-6.15	1.18	-4.97	11.00	Pass
138	5690 (For U-NII-2C)	-6.20	1.18	-5.02	11.00	Pass

### Spectrum Plot of Worst Value

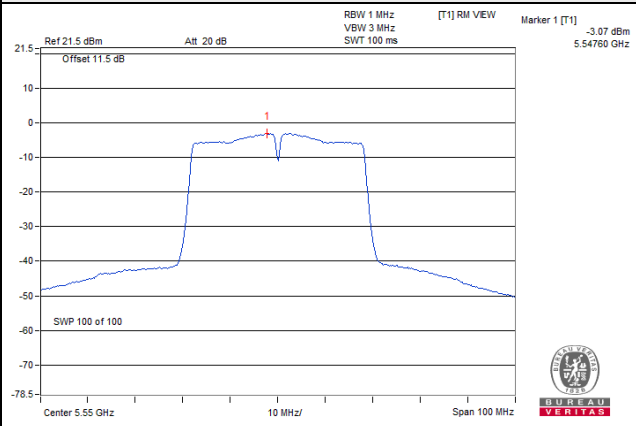
#### 802.11a



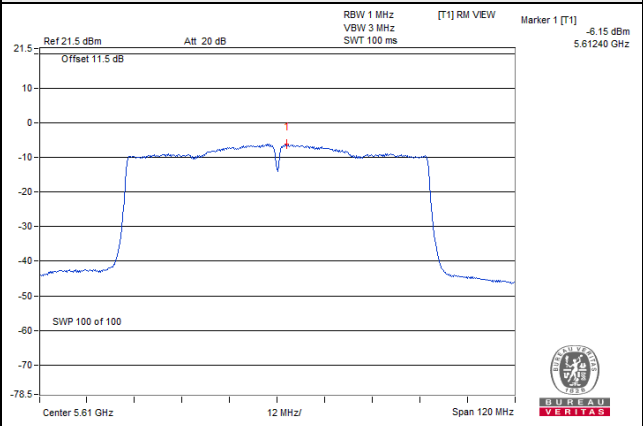
#### 802.11ac (VHT20)



#### 802.11ac (VHT40)



#### 802.11ac (VHT80)



For U-NII-3 band:

802.11a

Chan.	Freq. (MHz)	PSD		Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
		(dBm/300kHz)	(dBm/500kHz)				
144	5720 (For U-NII-3)	-10.09	-7.87	0.32	-7.55	30	Pass
149	5745	-8.04	-5.82	0.32	-5.50	30	Pass
157	5785	-7.96	-5.74	0.32	-5.42	30	Pass
165	5825	-7.98	-5.76	0.32	-5.44	30	Pass

802.11ac (VHT20)

Chan.	Freq. (MHz)	PSD		Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
		(dBm/300kHz)	(dBm/500kHz)				
144	5720 (For U-NII-3)	-9.67	-7.45	0.33	-7.12	30	Pass
149	5745	-8.66	-6.44	0.33	-6.11	30	Pass
157	5785	-8.85	-6.63	0.33	-6.30	30	Pass
165	5825	-8.94	-6.72	0.33	-6.39	30	Pass

802.11ac (VHT40)

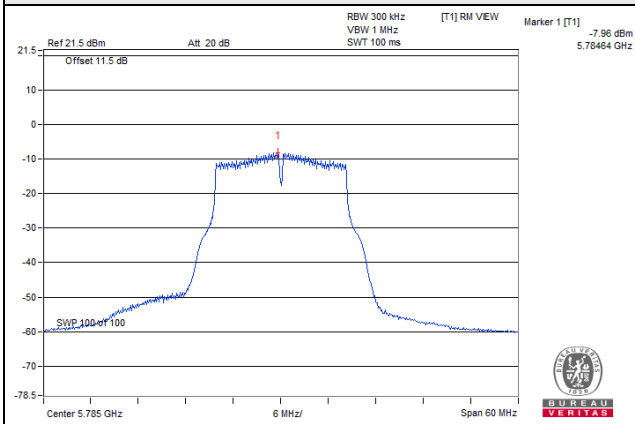
Chan.	Freq. (MHz)	PSD		Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
		(dBm/300kHz)	(dBm/500kHz)				
142	5710 (For U-NII-3)	-14.21	-11.99	0.67	-11.32	30	Pass
151	5755	-12.46	-10.24	0.67	-9.57	30	Pass
159	5795	-12.65	-10.43	0.67	-9.76	30	Pass

802.11ac (VHT80)

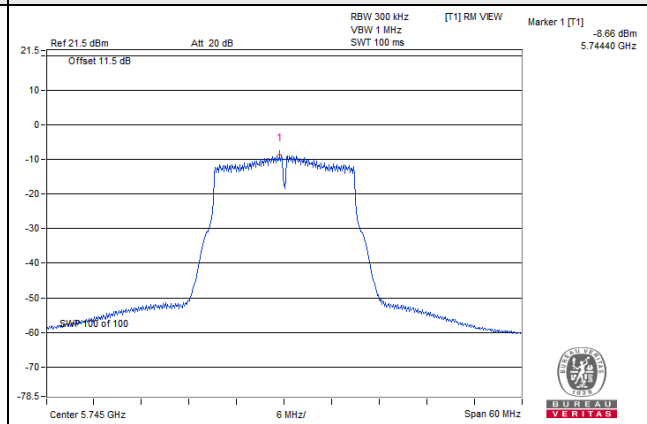
Chan.	Freq. (MHz)	PSD		Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
		(dBm/300kHz)	(dBm/500kHz)				
138	5690 (For U-NII-3)	-17.73	-15.51	1.18	-14.33	30	Pass
155	5775	-15.80	-13.58	1.18	-12.40	30	Pass

### Spectrum Plot of Worst Value

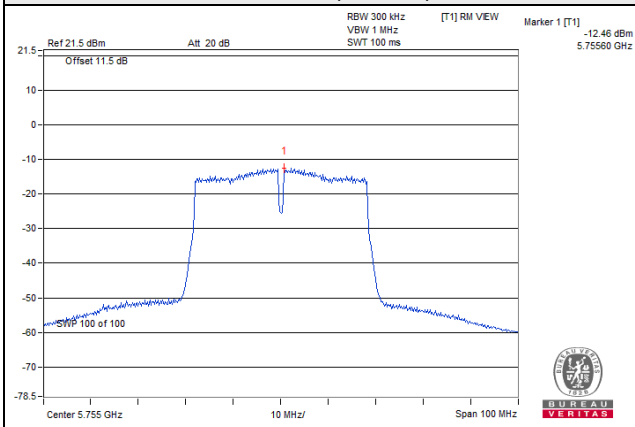
802.11a



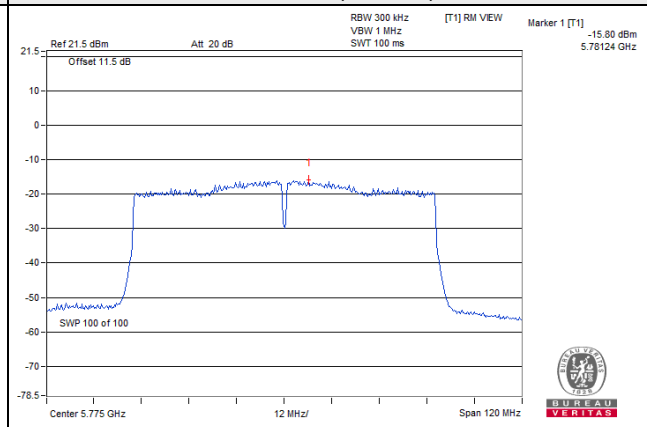
802.11ac (VHT20)



802.11ac (VHT40)



802.11ac (VHT80)

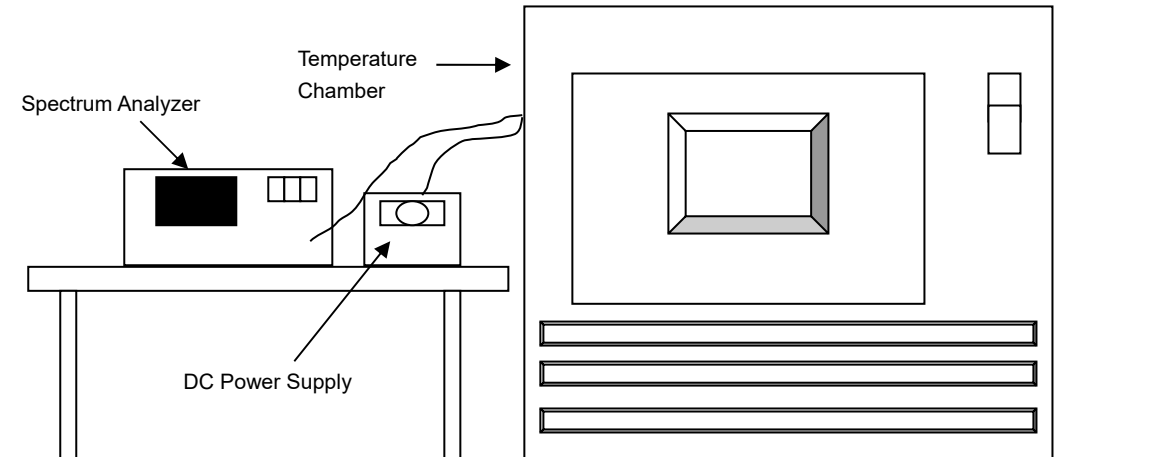


## 4.6 Frequency Stability

### 4.6.1 Limits of Frequency Stability Measurement

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

### 4.6.2 Test Setup



### 4.6.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 15, 2021	Sep. 14, 2022
Standard Temperature And Humidity Chamber GIANT FORCE	GTH-120-40-CP-AR	MAA1306-019	Sep. 10, 2021	Sep. 09, 2022
Digital Multimeter Fluke	87-III	70360742	Jun. 24, 2021	Jun. 23, 2022
DC Power Supply Topward	6306A	727263	NA	NA

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

### 4.6.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- Repeat step d with every 10 degrees reduction until the lowest temperature achieved.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.



#### 4.6.5 Deviation from Test Standard

No deviation.

#### 4.6.6 EUT Operating Condition

Set the EUT transmit at un-modulation mode to test frequency stability.

#### 4.6.7 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
40	120	5179.9909	Pass	5179.9909	Pass	5179.9936	Pass	5179.9896	Pass
30	120	5180.0115	Pass	5180.0128	Pass	5180.0092	Pass	5180.0125	Pass
20	120	5179.9861	Pass	5179.9822	Pass	5179.9862	Pass	5179.9816	Pass
10	120	5180.0076	Pass	5180.0092	Pass	5180.0075	Pass	5180.0096	Pass
0	120	5180.0094	Pass	5180.0071	Pass	5180.0091	Pass	5180.0092	Pass

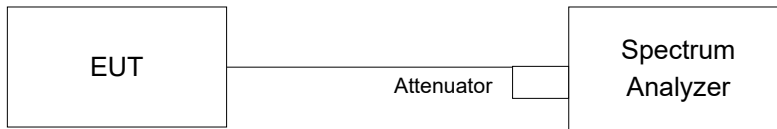
Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5179.9943	Pass	5179.9917	Pass	5179.9901	Pass	5179.9903	Pass
	120	5179.9861	Pass	5179.9822	Pass	5179.9862	Pass	5179.9816	Pass
	102	5179.9875	Pass	5179.9894	Pass	5179.987	Pass	5179.9893	Pass

## 4.7 6dB Bandwidth Measurement

### 4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

### 4.7.2 Test Setup



### 4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.7.4 Test Procedure

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW)  $\geq 3 \times$  RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

### 4.7.5 Deviation from Test Standard

No deviation.

### 4.7.6 EUT Operating Condition

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

#### 4.7.7 Test Results

##### 802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
144	5720 (For U-NII-3)	2.64	0.5	Pass
149	5745	16.10	0.5	Pass
157	5785	16.37	0.5	Pass
165	5825	16.34	0.5	Pass

##### 802.11ac (VHT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
144	5720 (For U-NII-3)	3.17	0.5	Pass
149	5745	17.35	0.5	Pass
157	5785	17.55	0.5	Pass
165	5825	16.93	0.5	Pass

##### 802.11ac (VHT40)

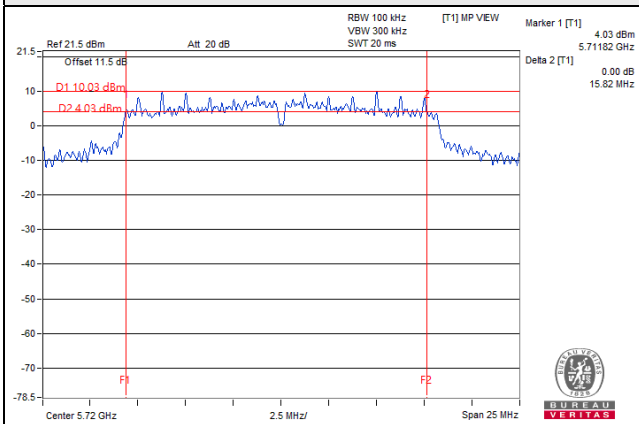
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
142	5710 (For U-NII-3)	3.21	0.5	Pass
151	5755	35.78	0.5	Pass
159	5795	35.64	0.5	Pass

##### 802.11ac (VHT80)

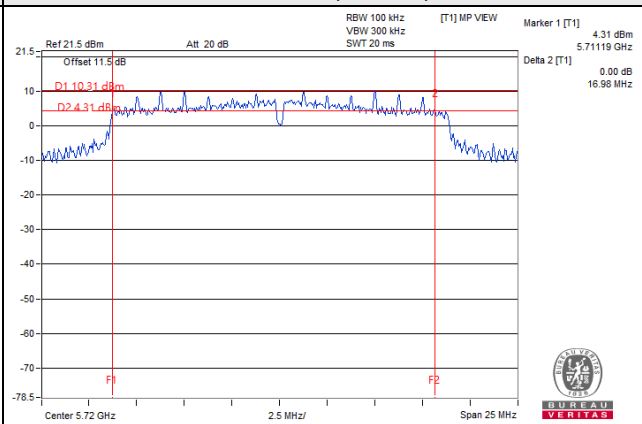
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
138	5690 (For U-NII-3)	2.77	0.5	Pass
155	5775	75.56	0.5	Pass

### Spectrum Plot of Worst Value

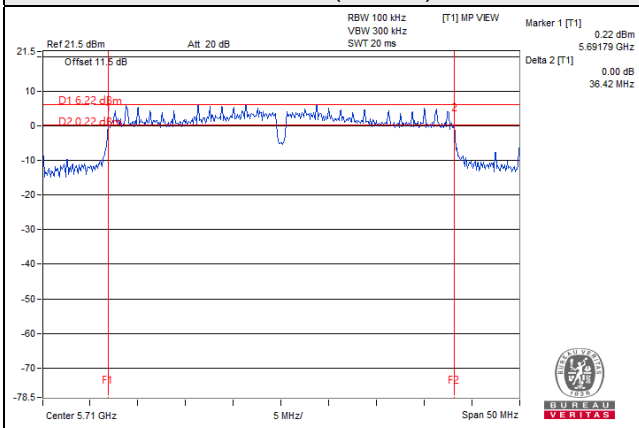
#### 802.11a



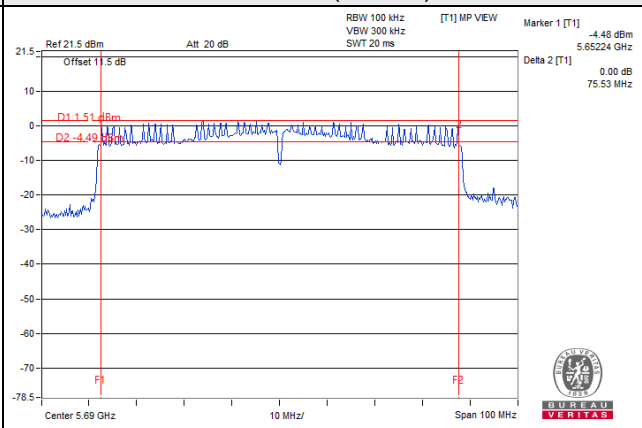
#### 802.11ac (VHT20)



#### 802.11ac (VHT40)



#### 802.11ac (VHT80)



**Note:**

For CH144 (UNII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

For CH142 (UNII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

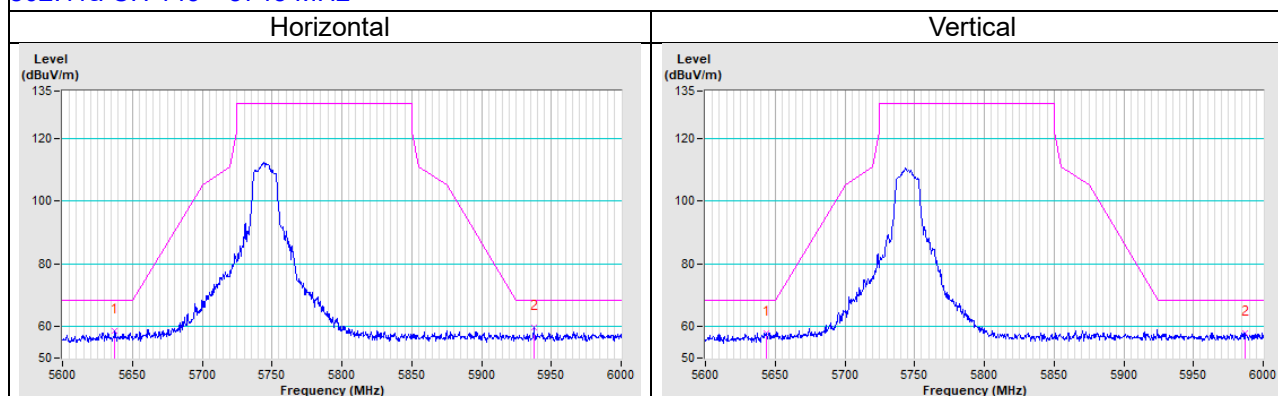
For CH138 (UNII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

## 5 Pictures of Test Arrangements

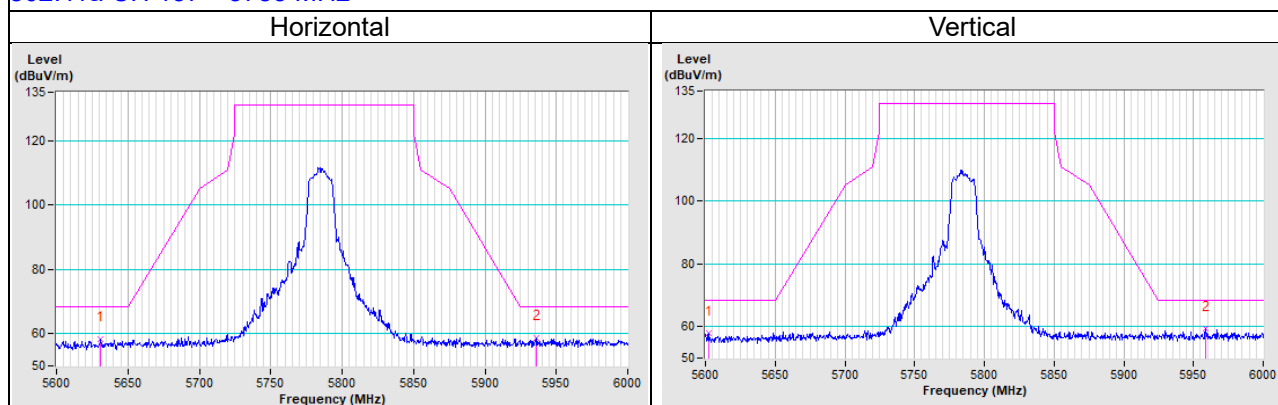
Please refer to the attached file (Test Setup Photo).

## Annex A - Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

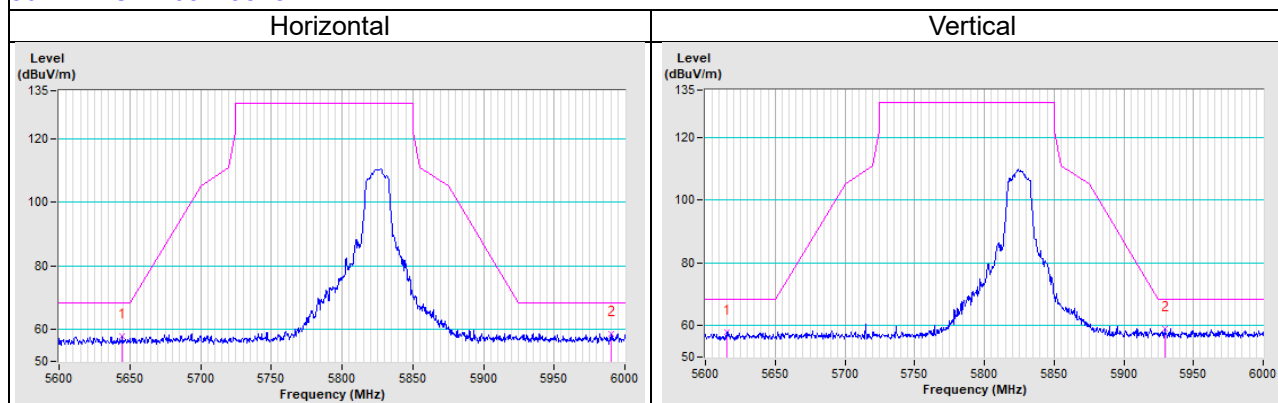
### 802.11a CH 149 : 5745 MHz



### 802.11a CH 157 : 5785 MHz

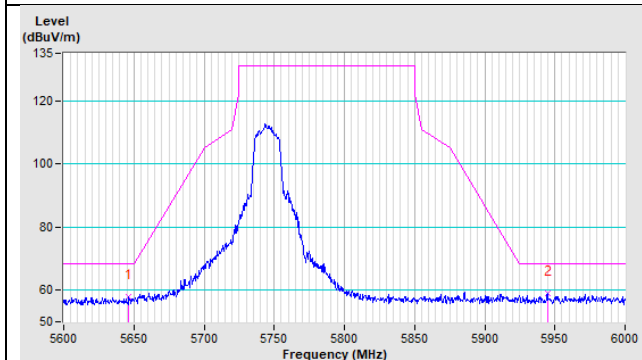


### 802.11a CH 165 : 5825 MHz

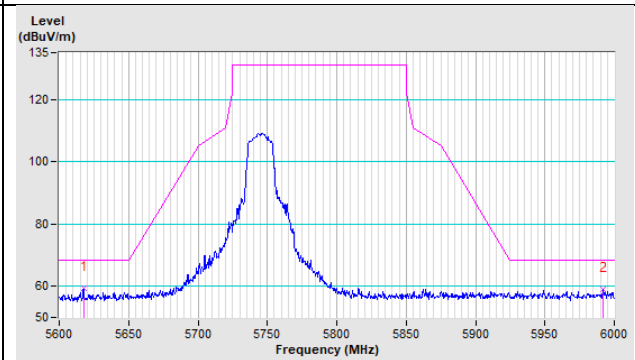


802.11ac (VHT20) CH 149 : 5745 MHz

Horizontal

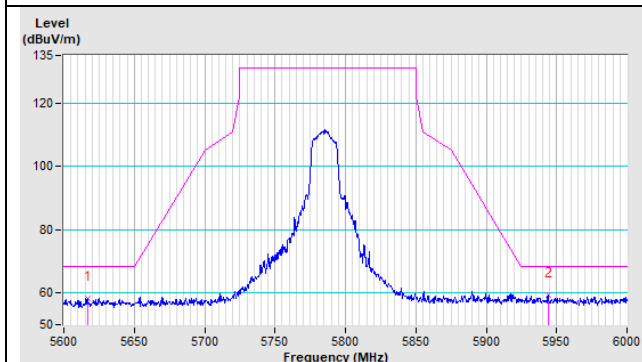


Vertical

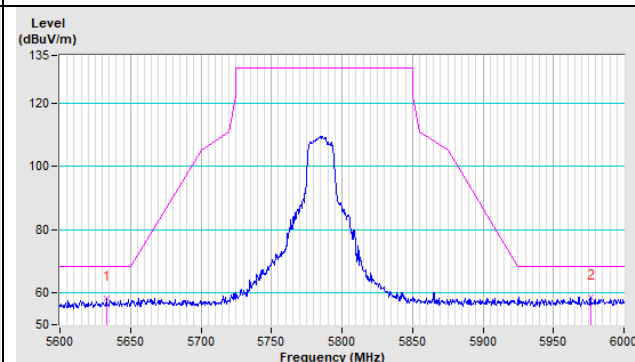


802.11ac (VHT20) CH 157 : 5785 MHz

Horizontal

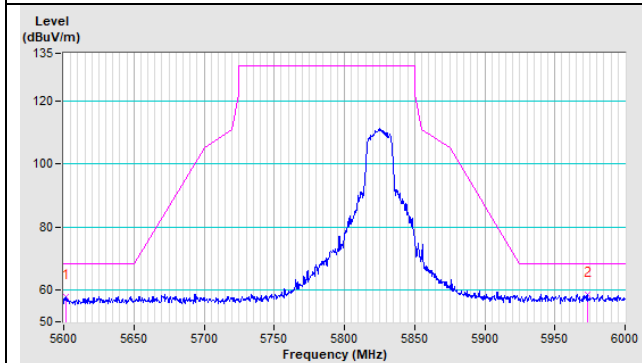


Vertical

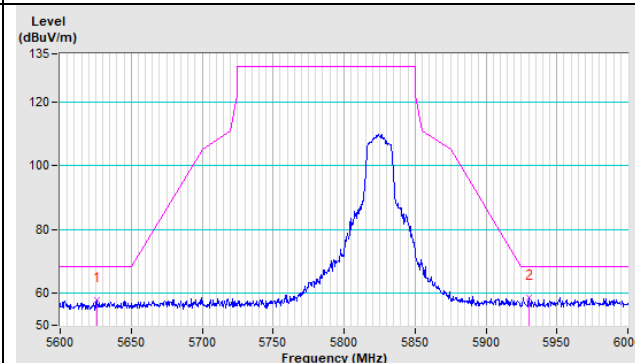


802.11ac (VHT20) CH 165 : 5825 MHz

Horizontal

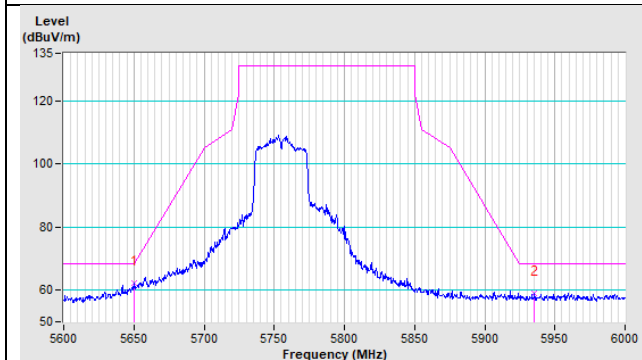


Vertical

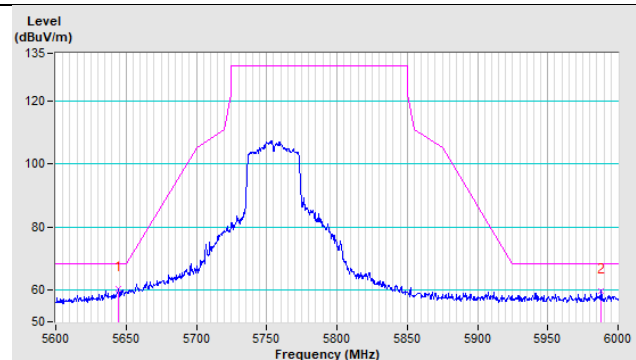


802.11ac (VHT40) CH 151 : 5755 MHz

Horizontal

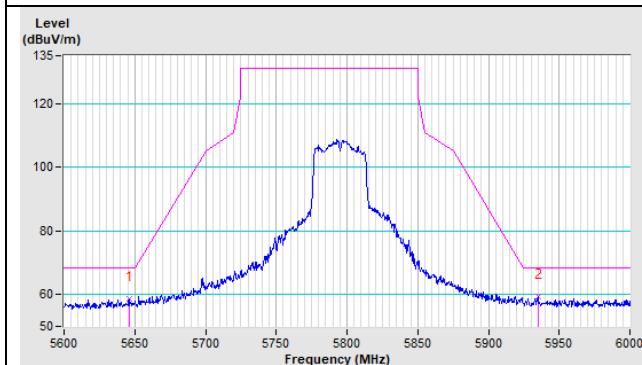


Vertical

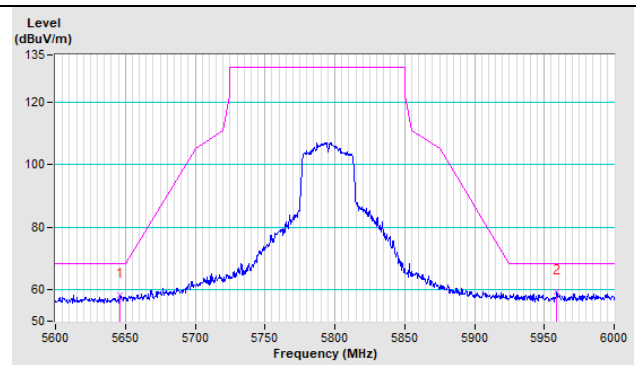


802.11ac (VHT40) CH 159 : 5795 MHz

Horizontal

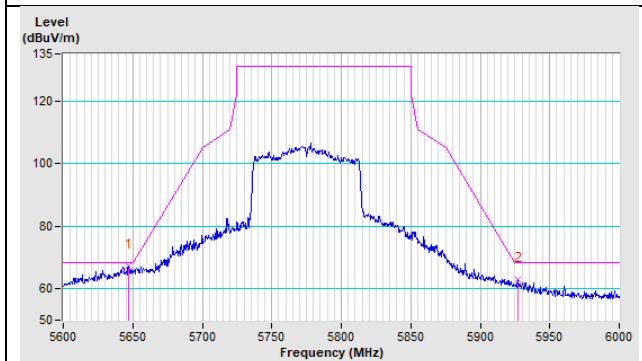


Vertical

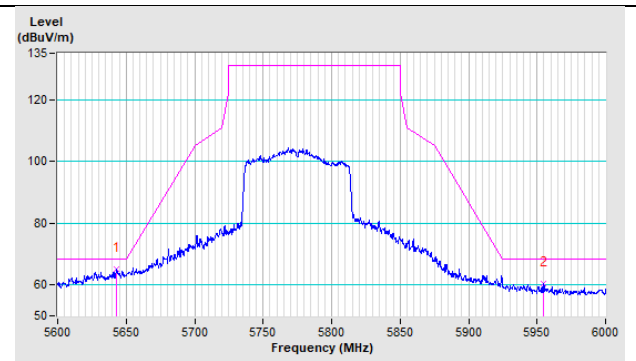


802.11ac (VHT80) CH 155 : 5775 MHz

Horizontal

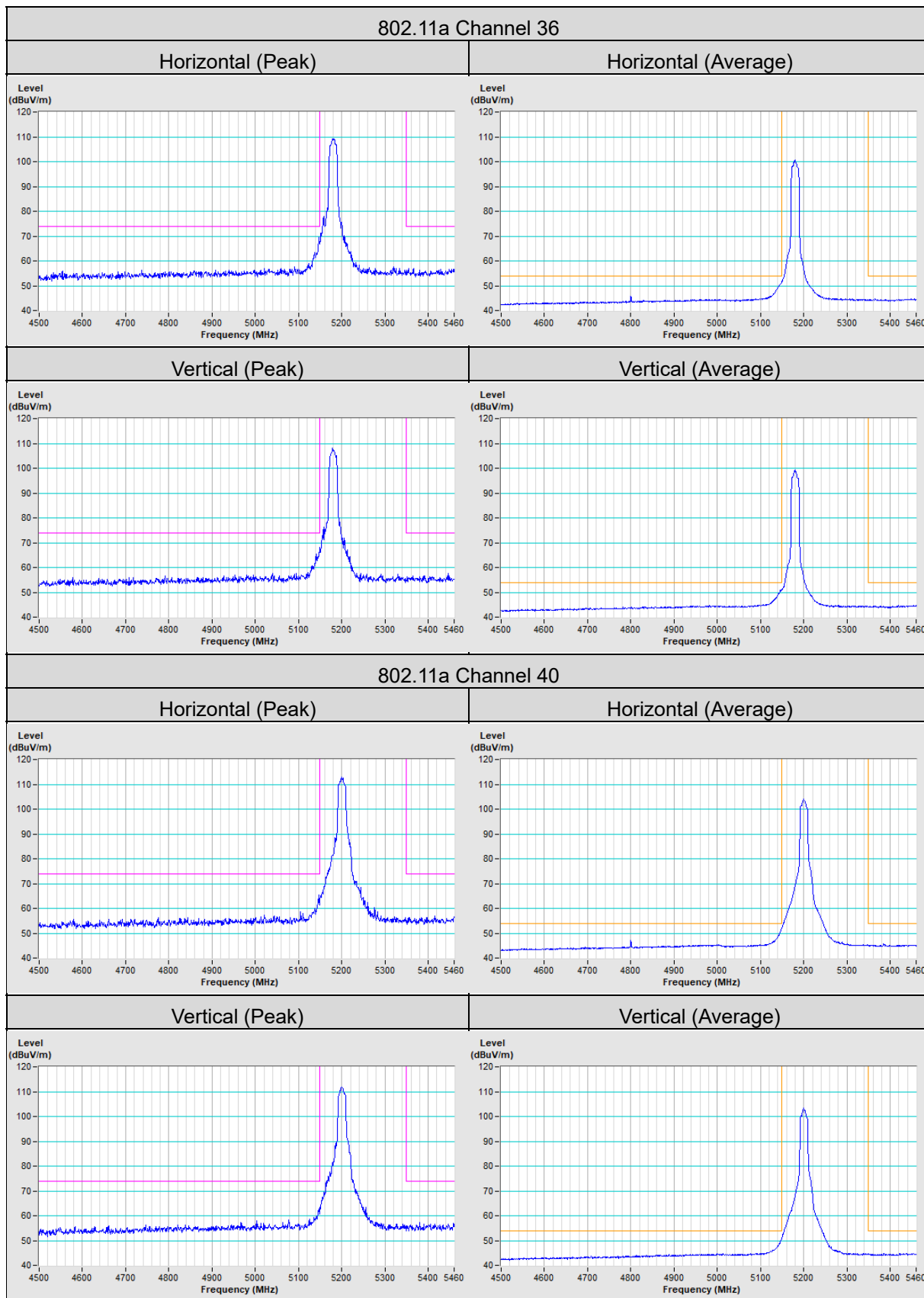


Vertical



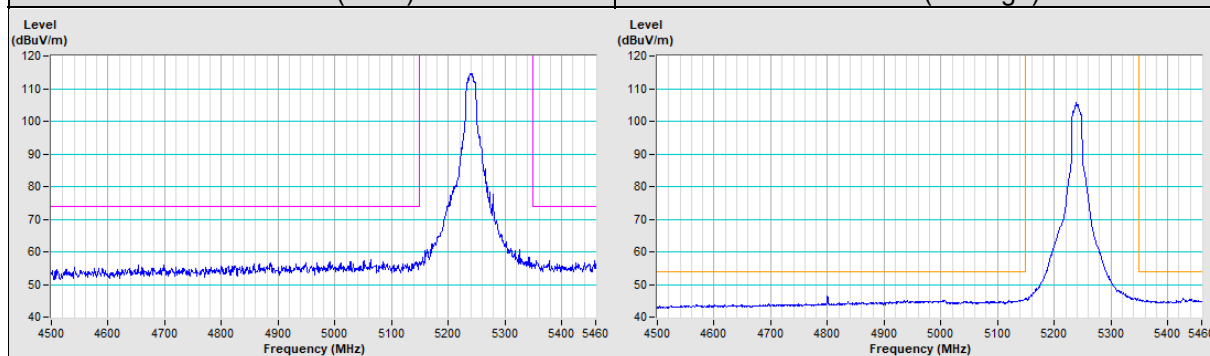


### Annex B - Band Edge Measurement

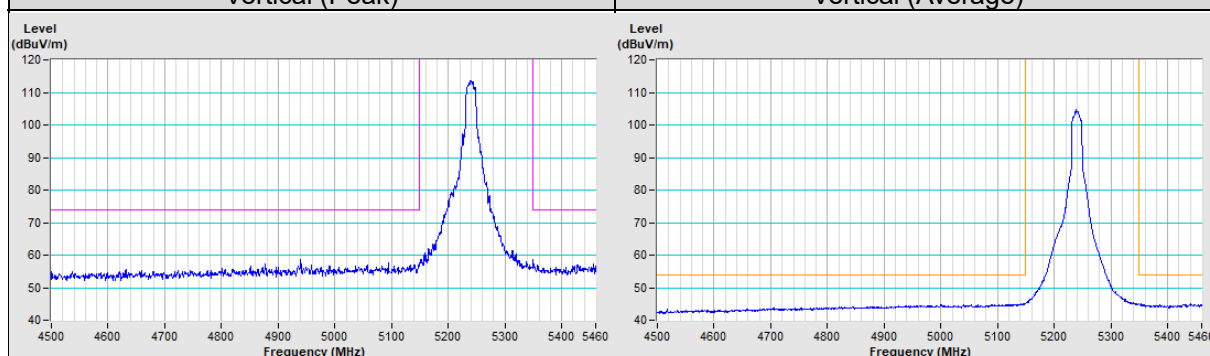


### 802.11a Channel 48

Horizontal (Peak)	Horizontal (Average)
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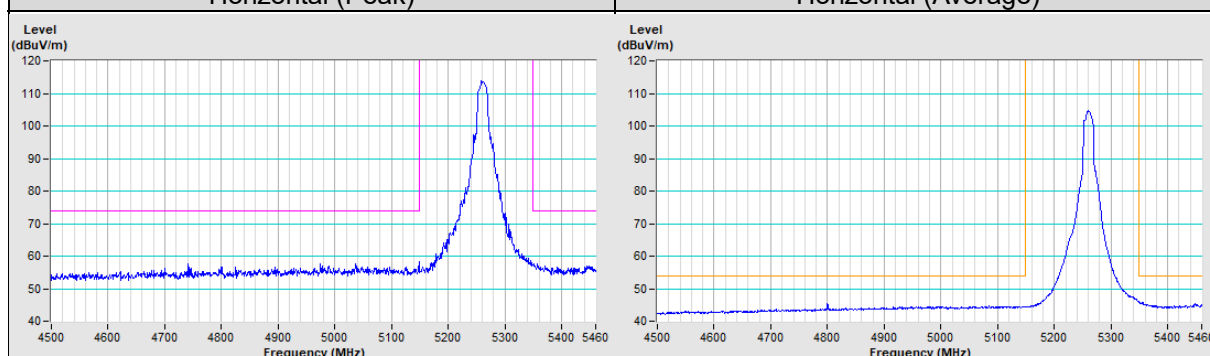


Vertical (Peak)	Vertical (Average)
-----------------	--------------------

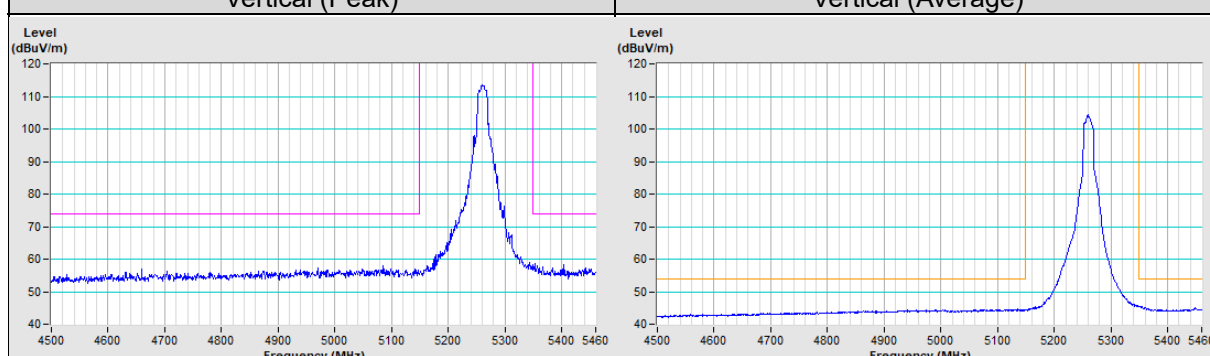


### 802.11a Channel 52

Horizontal (Peak)	Horizontal (Average)
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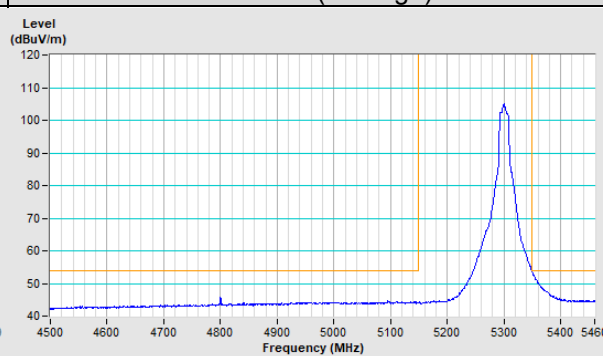
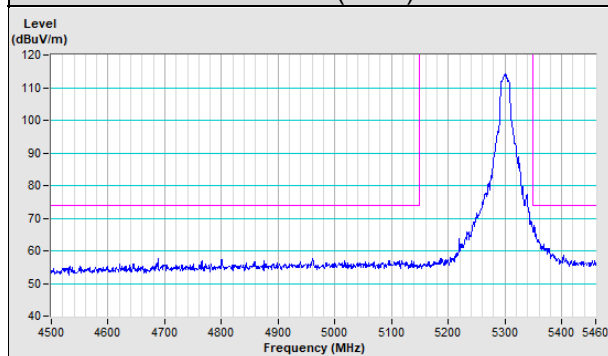


Vertical (Peak)	Vertical (Average)
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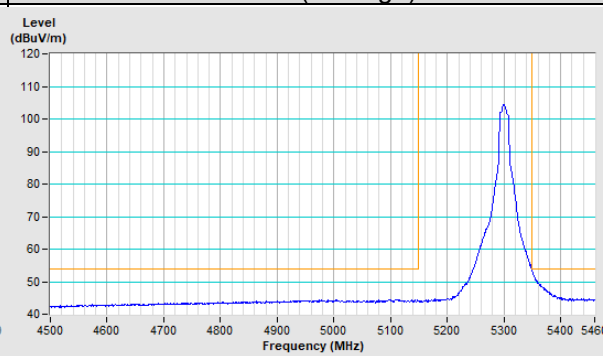
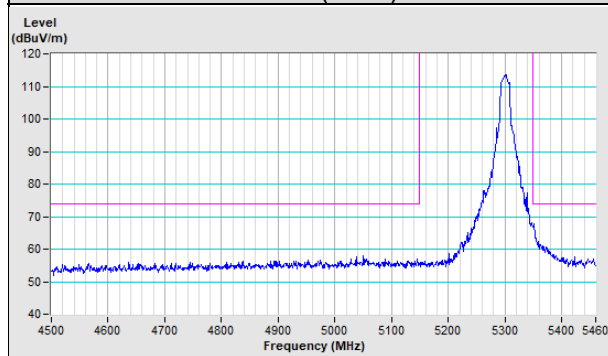


**802.11a Channel 60**

<b>Horizontal (Peak)</b>	<b>Horizontal (Average)</b>
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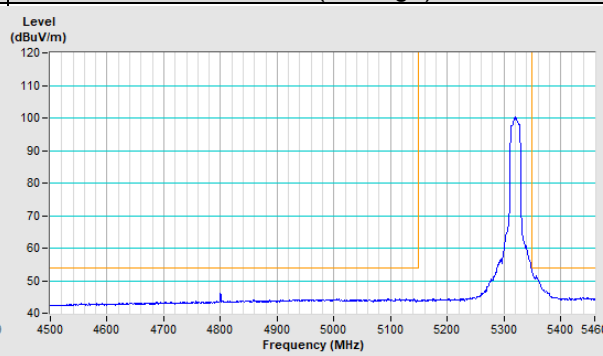
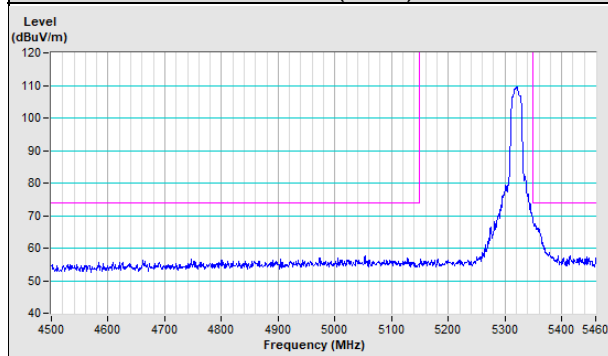


<b>Vertical (Peak)</b>	<b>Vertical (Average)</b>
------------------------	---------------------------

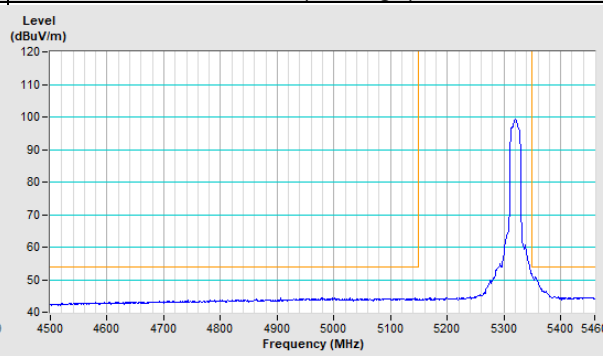
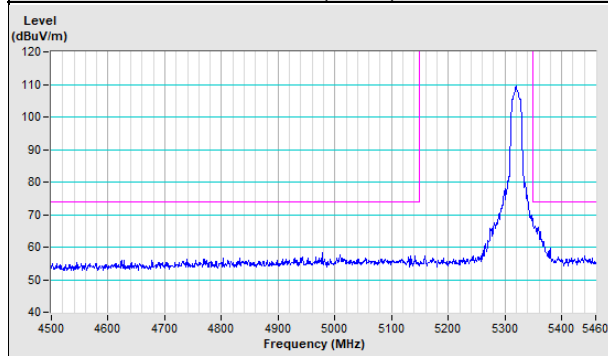


**802.11a Channel 64**

<b>Horizontal (Peak)</b>	<b>Horizontal (Average)</b>
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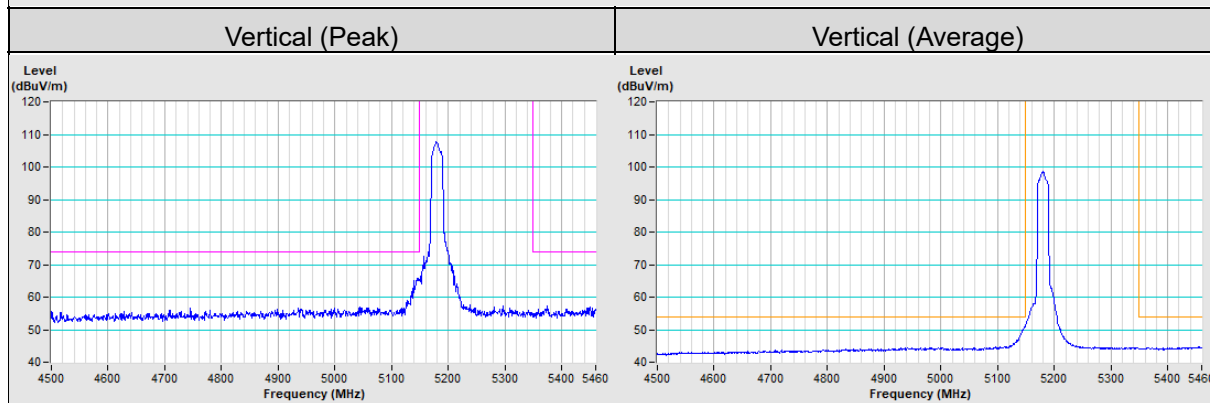
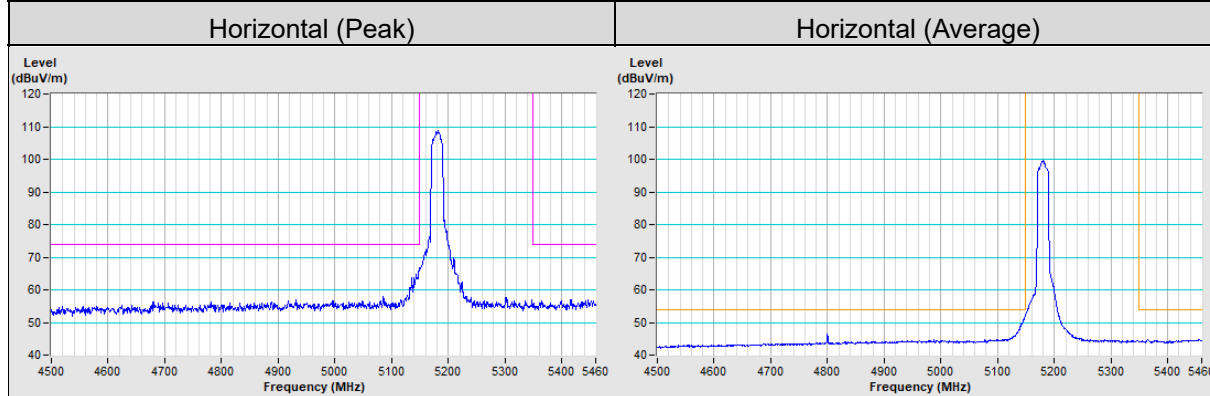


<b>Vertical (Peak)</b>	<b>Vertical (Average)</b>
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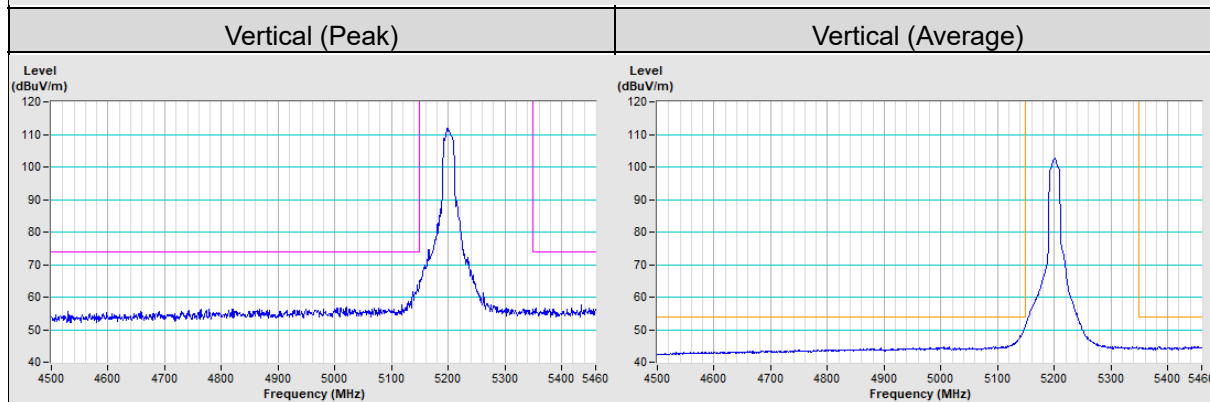
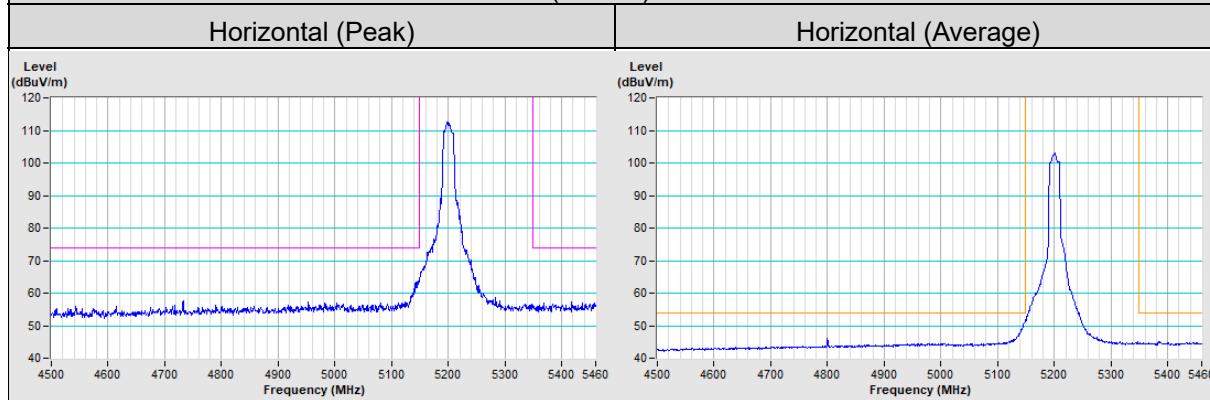




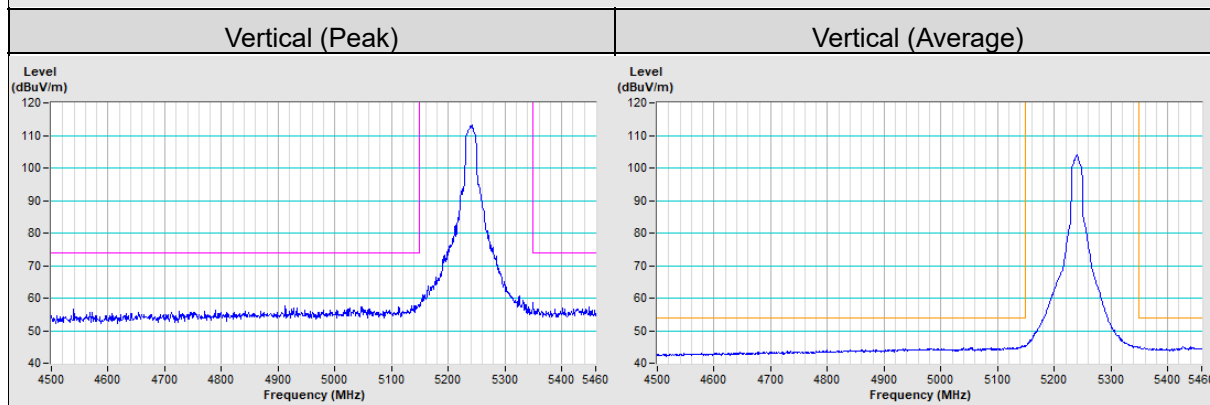
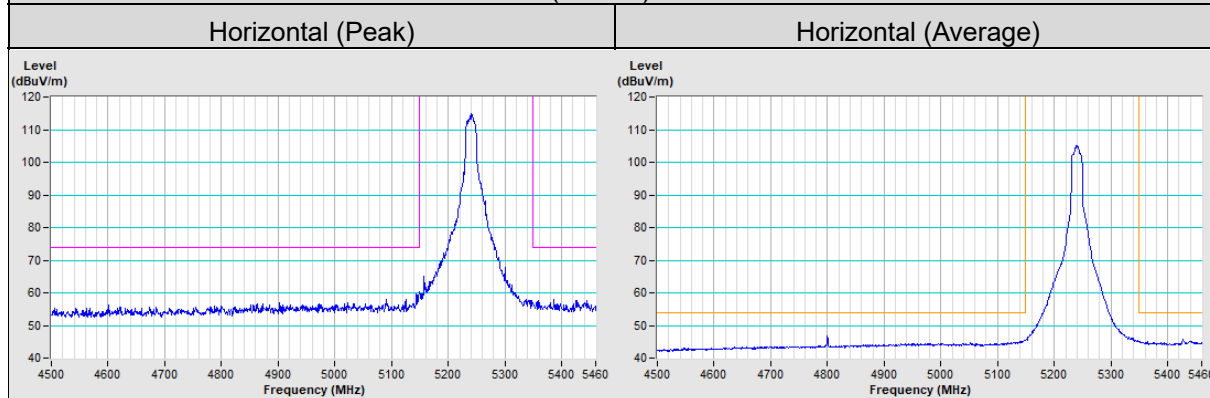
### 802.11ac (VHT20) Channel 36



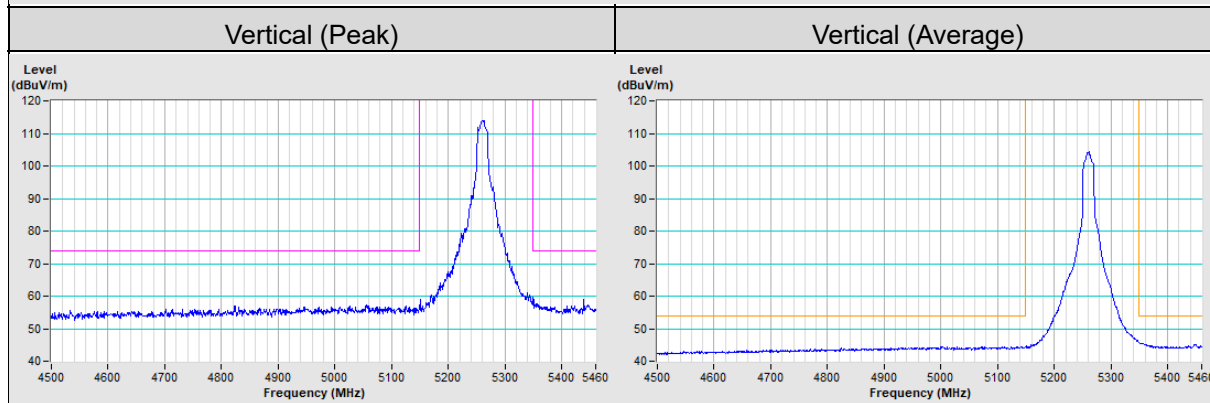
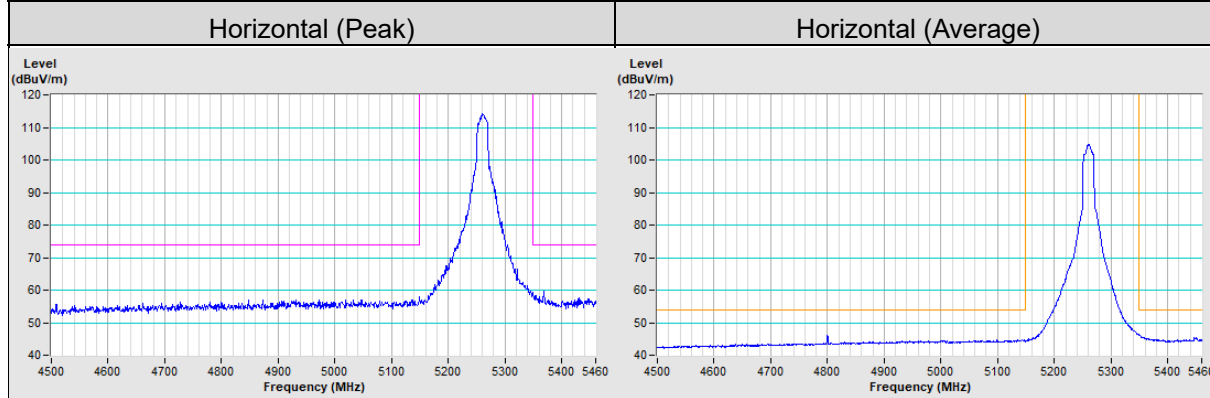
### 802.11ac (VHT20) Channel 40



### 802.11ac (VHT20) Channel 48

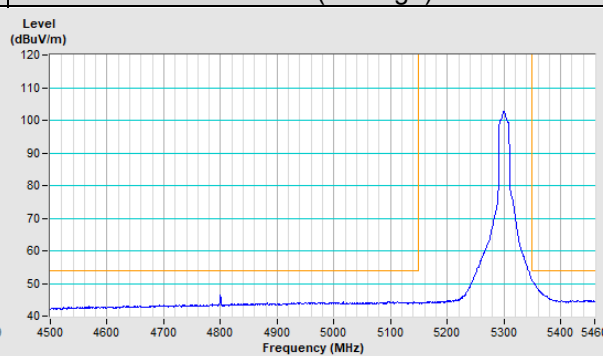
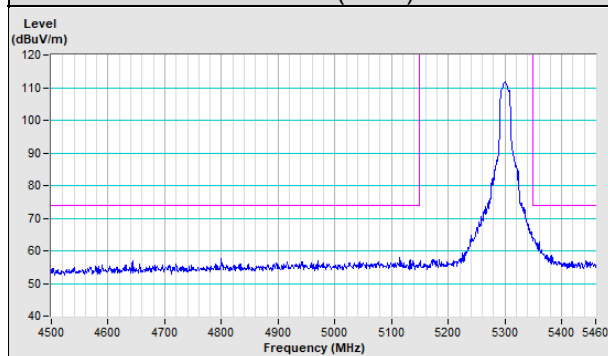


### 802.11ac (VHT20) Channel 52

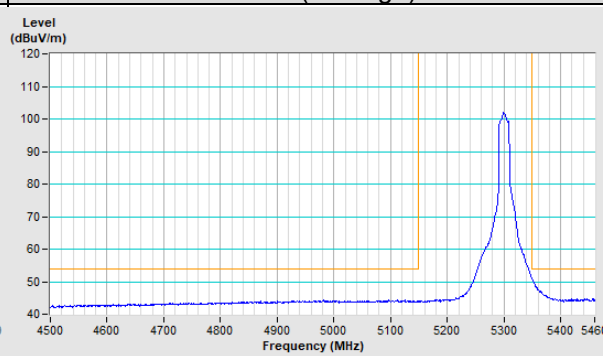
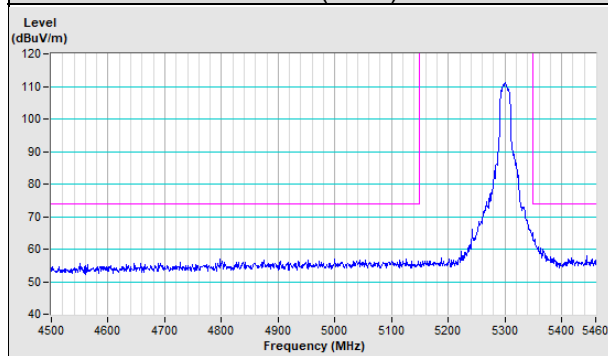


**802.11ac (VHT20) Channel 60**

<b>Horizontal (Peak)</b>	<b>Horizontal (Average)</b>
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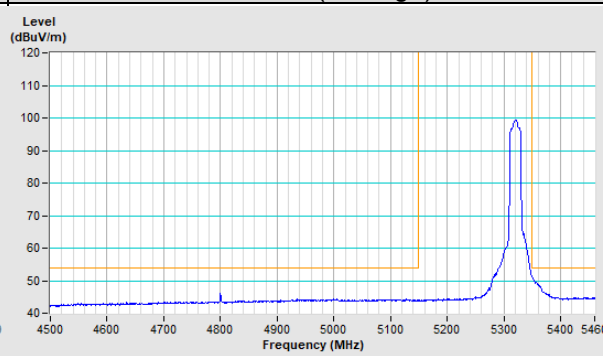
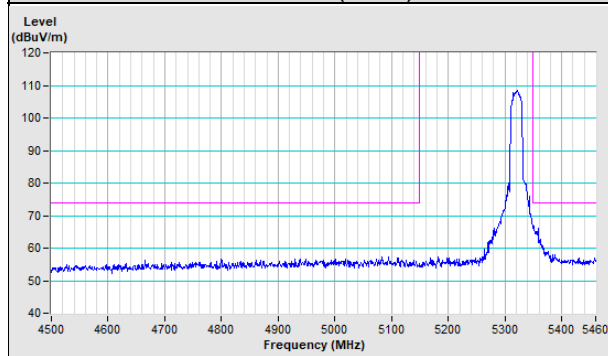


<b>Vertical (Peak)</b>	<b>Vertical (Average)</b>
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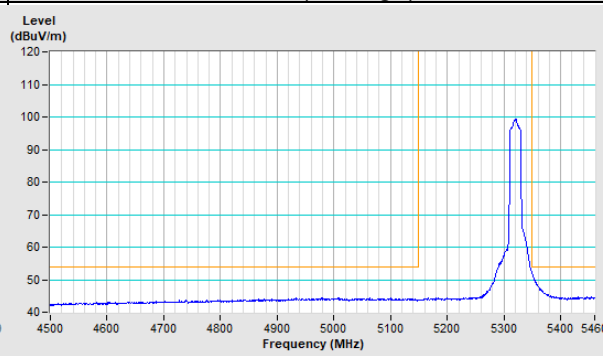
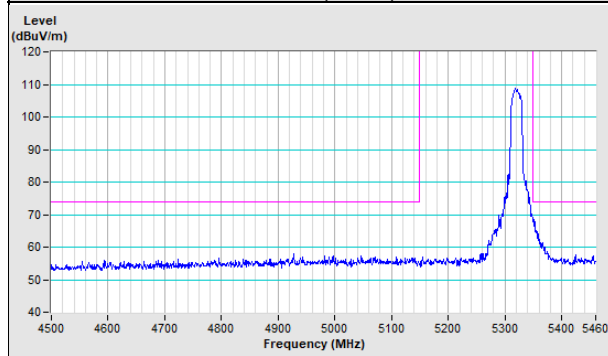


**802.11ac (VHT20) Channel 64**

<b>Horizontal (Peak)</b>	<b>Horizontal (Average)</b>
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<b>Vertical (Peak)</b>	<b>Vertical (Average)</b>
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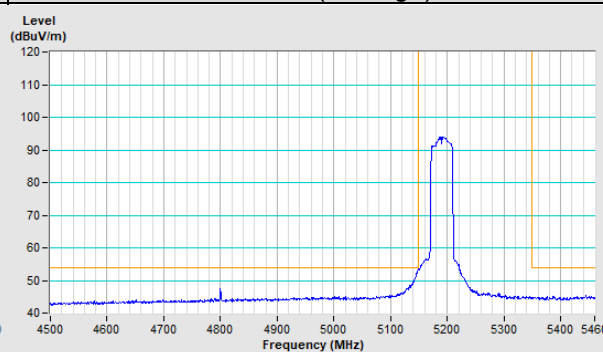
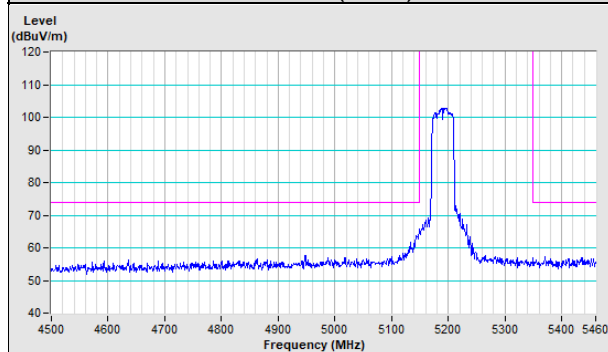




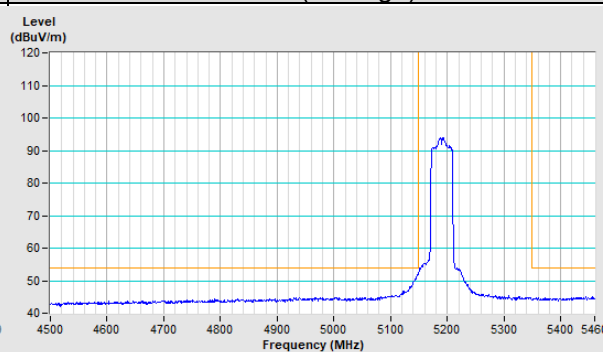
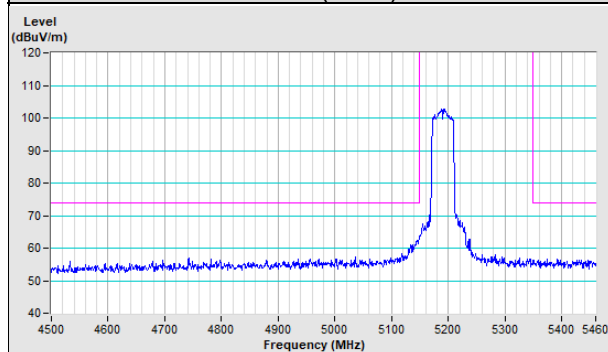


### 802.11ac (VHT40) Channel 38

Horizontal (Peak)	Horizontal (Average)
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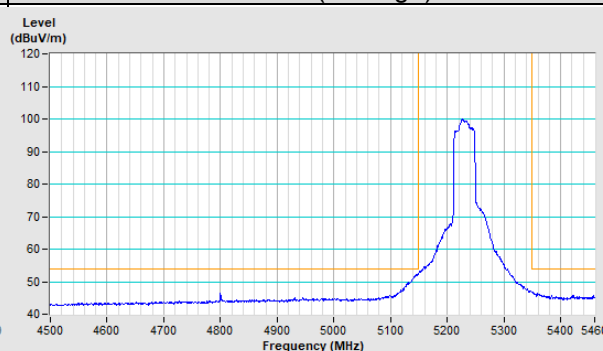
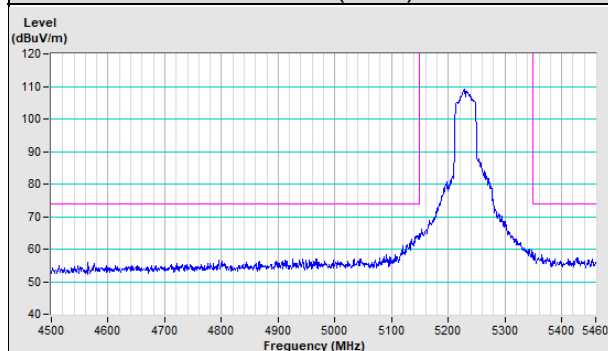


Vertical (Peak)	Vertical (Average)
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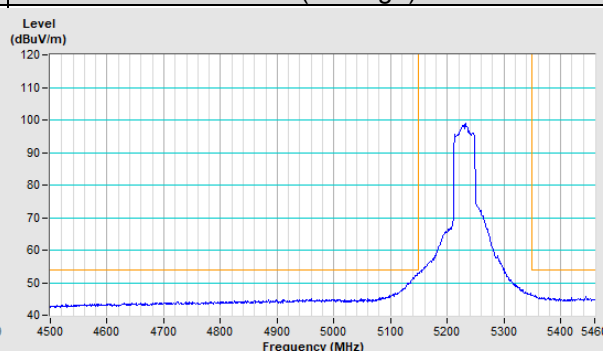
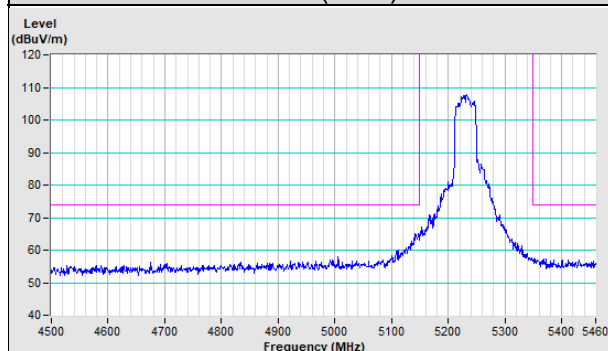


### 802.11ac (VHT40) Channel 46

Horizontal (Peak)	Horizontal (Average)
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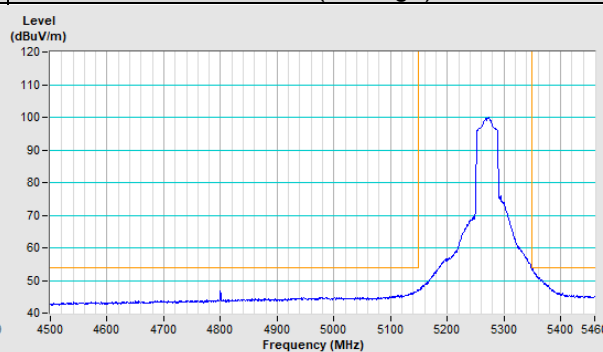
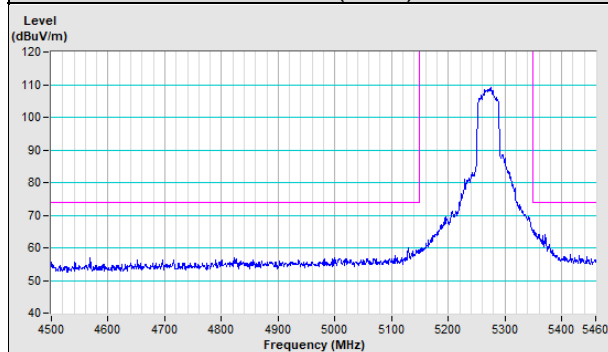


Vertical (Peak)	Vertical (Average)
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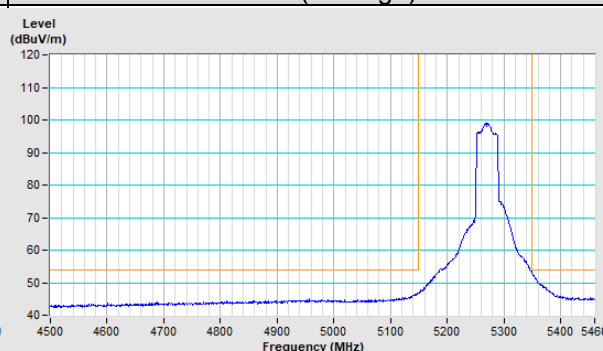
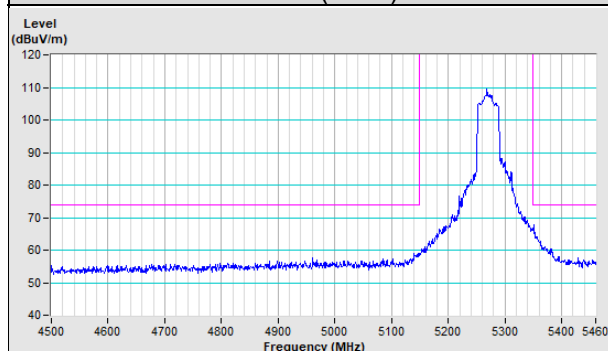


### 802.11ac (VHT40) Channel 54

Horizontal (Peak)	Horizontal (Average)
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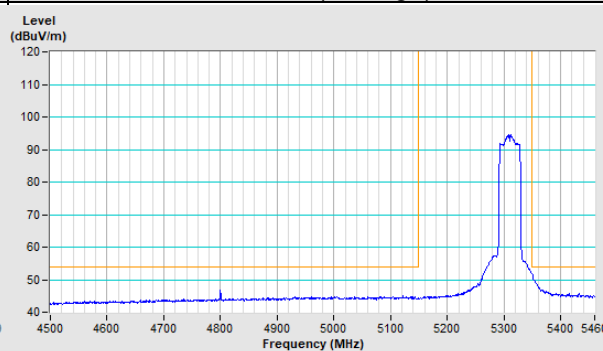
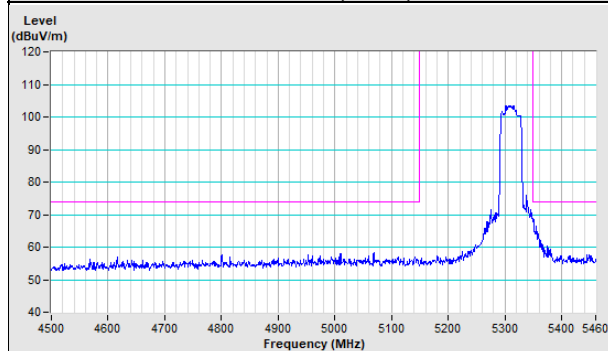


Vertical (Peak)	Vertical (Average)
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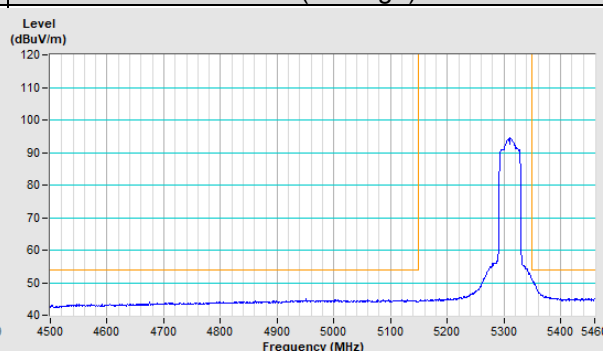
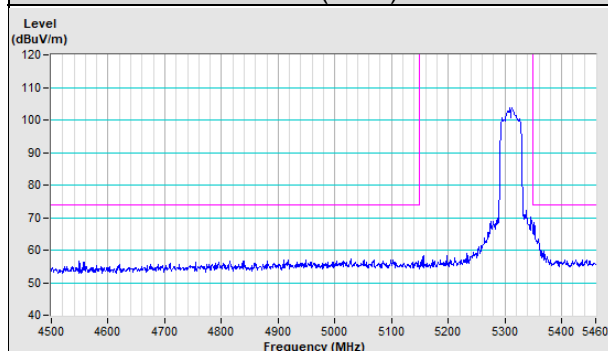


### 802.11ac (VHT40) Channel 62

Horizontal (Peak)	Horizontal (Average)
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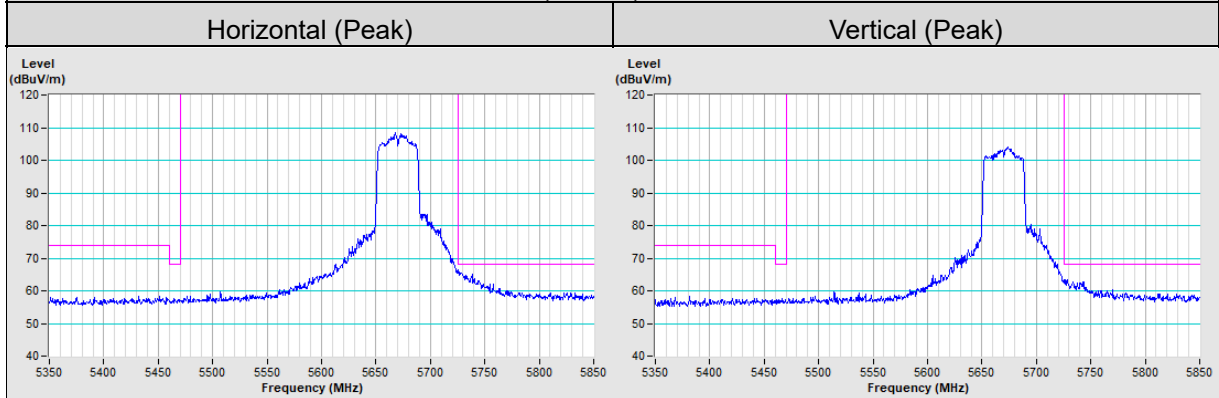


Vertical (Peak)	Vertical (Average)
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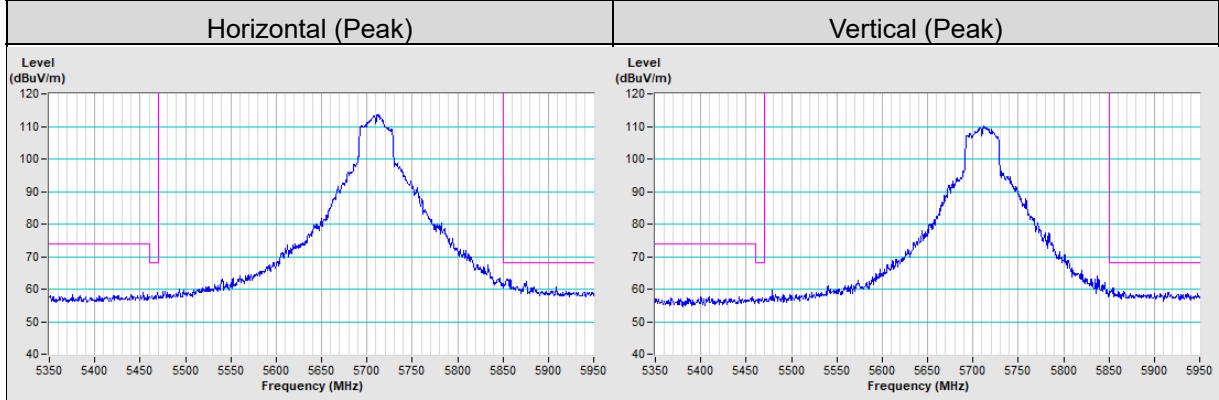




802.11ac (VHT40) Channel 134

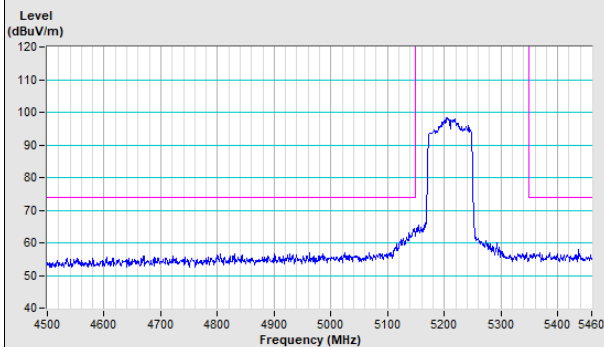


802.11ac (VHT40) Channel 142

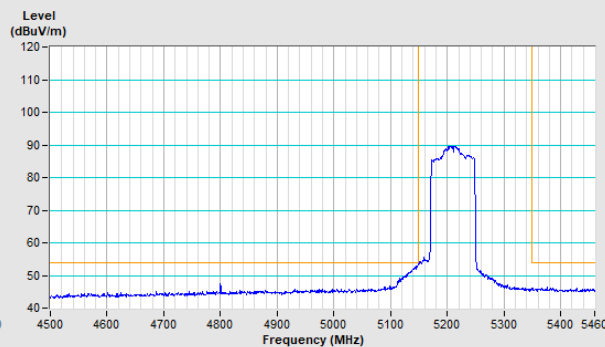


### 802.11ac (VHT80) Channel 42

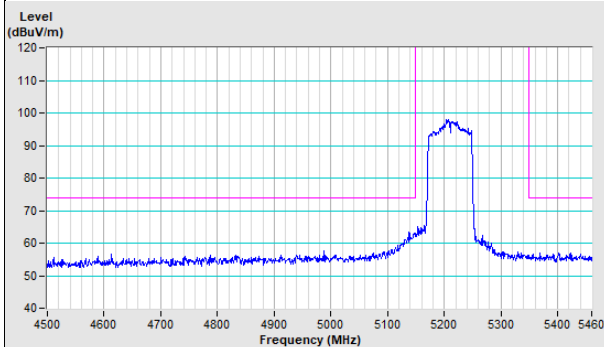
Horizontal (Peak)



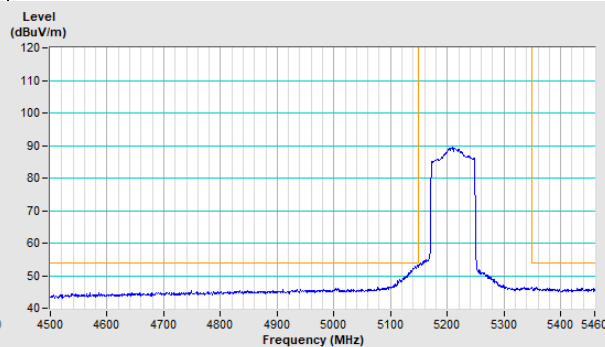
Horizontal (Average)



Vertical (Peak)

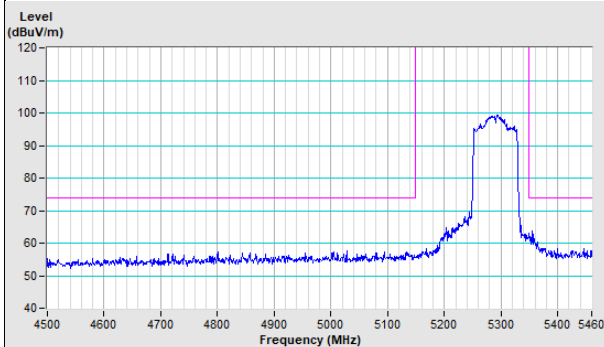


Vertical (Average)

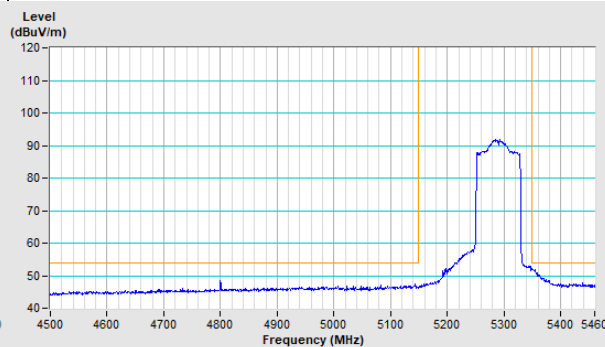


### 802.11ac (VHT80) Channel 58

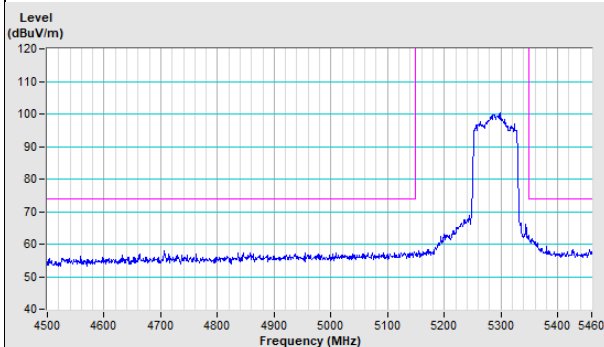
Horizontal (Peak)



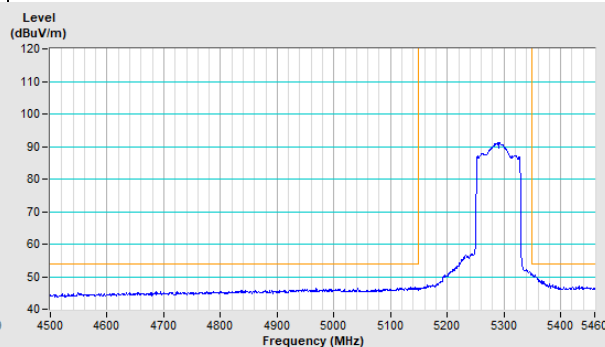
Horizontal (Average)



Vertical (Peak)



Vertical (Average)

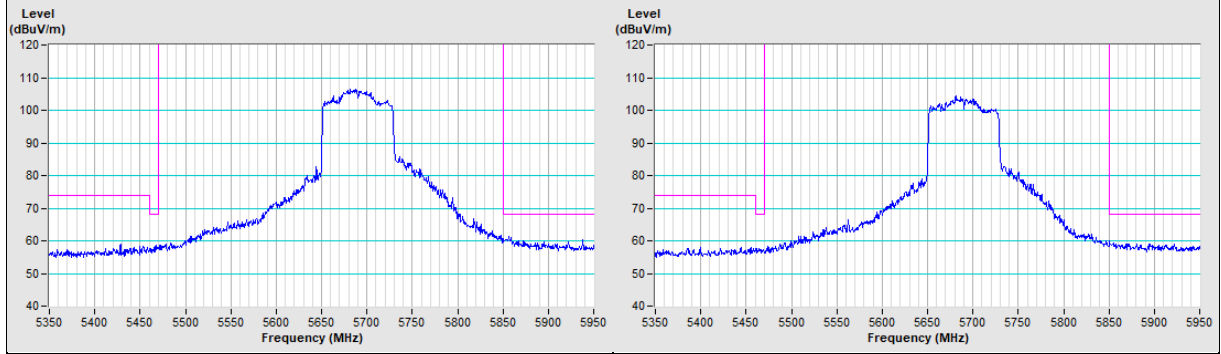




802.11ac (VHT80) Channel 138

Horizontal (Peak)

Vertical (Peak)



## Appendix – Information of the Testing Laboratories

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

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**Web Site:** [www.bureauveritas-adt.com](http://www.bureauveritas-adt.com)

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

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