

FCC Test Report

Report No.: RF191104C18-2

FCC ID: 2ACTO-APX320X

Test Model: APX 320X

Received Date: Nov. 04, 2019

Test Date: Nov. 12, 2019 ~ Mar. 24, 2020

Issued Date: Apr. 01, 2020

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Release Control Record

Issue No.	Description	Date Issued
RF191104C18-2	Original release	Apr. 01, 2020

1 Certificate of Conformity

Product: Sophos Access Point

Brand: Sophos

Test Model: APX 320X

Sample Status: Engineering sample

Applicant: Sophos Ltd

Test Date: Nov. 12, 2019 ~ Mar. 24, 2020

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:** Apr. 01, 2020
Pettie Chen / Senior Specialist

Approved by : Bruce Chen, **Date:** Apr. 01, 2020
Bruce Chen / Senior 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)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -12.61dB at 0.41563MHz.
15.407(b)(1/2/3/4(i/ii)/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -0.5dB at 5150.00, 5350.00, 17475.00MHz.
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	Antenna connector is N-Type connector not a standard connector.

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	2.94 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.59 dB
	200MHz ~ 1000MHz	3.60 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Sophos Access Point			
Brand	Sophos			
Test Model	APX 320X			
Sample Status	Engineering sample			
Power Supply Rating	55Vdc (PoE)			
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK			
Modulation Technology	OFDM			
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 300Mbps 802.11ac: up to 867Mbps			
Operating Frequency	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5700MHz, 5745 ~ 5825MHz			
Number of Channel	5180 ~ 5240MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5260 ~ 5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5500 ~ 5700MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 11 802.11n (HT40), 802.11ac (VHT40): 5 802.11ac (VHT80): 2 5745 ~ 5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 5 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1			
Output Power		Dipole antenna	Directional antenna	Sector antenna
	CDD Mode			
	5180 ~ 5240MHz	140.275mW	6.953mW	6.953mW
	5260 ~ 5320MHz	220.863mW	51.488mW	51.488mW
	5500 ~ 5700MHz	183.736mW	49.191mW	49.191mW
	5745 ~ 5825MHz	198.616mW	189.930mW	189.930mW
	Beamforming Mode			
	5180 ~ 5240MHz	69.735mW	3.445mW	3.445mW
	5260 ~ 5320MHz	156.359mW	25.805mW	25.805mW
	5500 ~ 5700MHz	130.743mW	24.654mW	24.654mW
	5745 ~ 5825MHz	198.616mW	95.379mW	95.379mW
Antenna Type	Refer to note			
Antenna Connector	Refer to note			
Accessory Device	NA			

Cable Supplied	NA
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Note:

1. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

5GHz Band		
Modulation Mode	TX Function	Beamforming
802.11a	2TX	Not Support
802.11n (HT20)	2TX	Support
802.11n (HT40)	2TX	Support
802.11ac (VHT20)	2TX	Support
802.11ac (VHT40)	2TX	Support
802.11ac (VHT80)	2TX	Support

* The modulation and bandwidth are similar for 802.11n mode for 20MHz/40MHz and 802.11ac mode for 20MHz/40MHz, therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)

2. The EUT uses the following PoE. (Support unit only)

Brand	Microsemi
Model	PD-9001GR/AC
Input Power	100-240Vac~50/60Hz, 0.67A
Output Power	55Vdc / 0.6A

3. The EUT uses the following antennas.

NO.	Type	Gain(dBi)								Connector
		2400 MHz	2450 MHz	2500 MHz	5150 MHz	5325 MHz	5500 MHz	5675 MHz	5850 MHz	
1	Dipole	3.1	3.2	3.1	5.1	5.0	5.6	5.7	6.0	N type
2	Directional	11.6	12.0	11.9	10.55	11.2	11.5	11.2	11.5	N type
3	Sector	10.6	11.4	11.2	12.57	12.7	13.0	12.4	13.1	N type

4. The EUT will install at outdoor area, the highest antenna gain from the horizon above 30 degrees as below, for more detail information please refer to antenna specification and user manual

Antenna No.	Antenna gain	Antenna install degree
1	-0.50dBi	
Due to device will restricted installation position as above photo, thus consider to above 30 degrees highest antenna gain are chosen from XZ Plane and YZ Plane antenna specification of 120-240° degrees, for XY plane antenna gain it will not effect to above 30 degrees from the horizon, therefore not required to evaluation.		
2	10.55dBi	
3	12.57dBi	

3.2 Description of Test Modes

For 5180 ~ 5240MHz:

4 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

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

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
42	5210MHz

For 5260 ~ 5320MHz:

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

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

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

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
58	5290MHz

For 5500 ~ 5700MHz:

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

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

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

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

2 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	122	5610

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≥1G	RE<1G	PLC	APCM	
A	√	√	√	√	EUT with Dipole antenna
B	√	√	√	√	EUT with Directional antenna
C	√	√	√	√	EUT with Sector antenna

Where RE≥1G: Radiated Emission above 1GHz & Bandedge Measurement
PLC: Power Line Conducted Emission

RE<1G: Radiated Emission below 1GHz
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 **Z-plane**.
2. For radiated emission (below 1GHz) and power line conducted emission test items, the worst maximum power was selected.

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, B, C	802.11a	5180-5240	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, B, C	802.11a	5260-5320	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, B, C	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	6.0
	802.11ac (VHT20)		100 to 140	100, 116, 140	OFDM	6.5
	802.11ac (VHT40)		102 to 134	102, 110, 134	OFDM	13.5
	802.11ac (VHT80)		106 to 122	106, 122	OFDM	29.3
A, B, C	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, C	802.11ac (VHT80)	5180-5240	42	155	OFDM	29.3
	802.11ac (VHT80)	5260-5320	58		OFDM	29.3
	802.11ac (VHT80)	5500-5700	106 to 122		OFDM	29.3
	802.11ac (VHT80)	5745-5825	155		OFDM	29.3

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, C	802.11ac (VHT80)	5180-5240	42	155	OFDM	29.3
	802.11ac (VHT80)	5260-5320	58		OFDM	29.3
	802.11ac (VHT80)	5500-5700	106 to 122		OFDM	29.3
	802.11ac (VHT80)	5745-5825	155		OFDM	29.3

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, B, C	802.11a	5180-5240	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, B, C	802.11a	5260-5320	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, B, C	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	6.0
	802.11ac (VHT20)		100 to 140	100, 116, 140	OFDM	6.5
	802.11ac (VHT40)		102 to 134	102, 110, 134	OFDM	13.5
	802.11ac (VHT80)		106 to 122	106, 122	OFDM	29.3
A, B, C	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 $\geq$ 1G	22deg. C, 67%RH	120Vac, 60Hz	Greg Lin
RE<1G	22deg. C, 67%RH	120Vac, 60Hz	Greg Lin
PLC	20deg. C, 64%RH	120Vac, 60Hz	Jim Lee
APCM	25deg. C, 60%RH 25deg. C, 75%RH	120Vac, 60Hz	Jisyong Wang Jones Chang

3.3 Duty Cycle of Test Signal

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

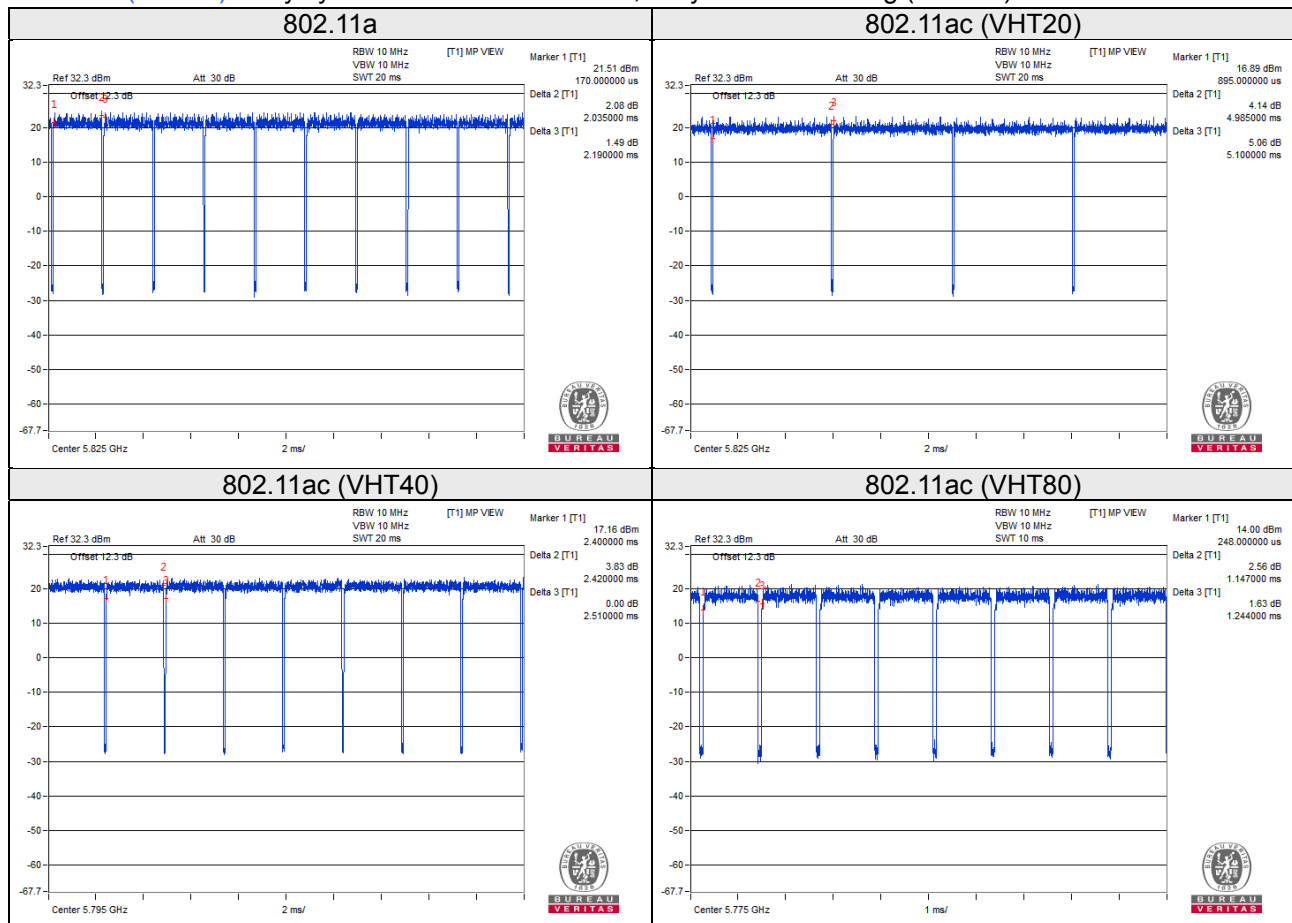
Test Mode A

802.11a: Duty cycle = $2.035/2.19 = 0.929$, Duty factor = $10 * \log(1/0.929) = 0.32$

802.11ac (VHT20): Duty cycle = $4.985/5.1 = 0.977$, Duty factor = $10 * \log(1/0.977) = 0.10$

802.11ac (VHT40): Duty cycle = $2.42/2.51 = 0.964$, Duty factor = $10 * \log(1/0.964) = 0.16$

802.11ac (VHT80): Duty cycle = $1.147/1.244 = 0.922$, Duty factor = $10 * \log(1/0.922) = 0.35$



Test Mode B

802.11a: Duty cycle = $2.04/2.145 = 0.951$, Duty factor = $10 * \log(1/0.951) = 0.22$

802.11ac (VHT20): Duty cycle = $4.963/5.075 = 0.978$, Duty factor = $10 * \log(1/0.978) = 0.10$

802.11ac (VHT40): Duty cycle = $2.388/2.563 = 0.932$, Duty factor = $10 * \log(1/0.932) = 0.31$

802.11ac (VHT80): Duty cycle = $1.144/1.239 = 0.923$, Duty factor = $10 * \log(1/0.923) = 0.35$



Test Mode C

802.11a: Duty cycle = $2.04/2.145 = 0.951$, Duty factor = $10 * \log(1/0.951) = 0.22$

802.11ac (VHT20): Duty cycle = $4.963/5.075 = 0.978$, Duty factor = $10 * \log(1/0.978) = 0.10$

802.11ac (VHT40): Duty cycle = $2.388/2.563 = 0.932$, Duty factor = $10 * \log(1/0.932) = 0.31$

802.11ac (VHT80): Duty cycle = $1.144/1.239 = 0.923$, Duty factor = $10 * \log(1/0.923) = 0.35$



3.4 Description of Support Units

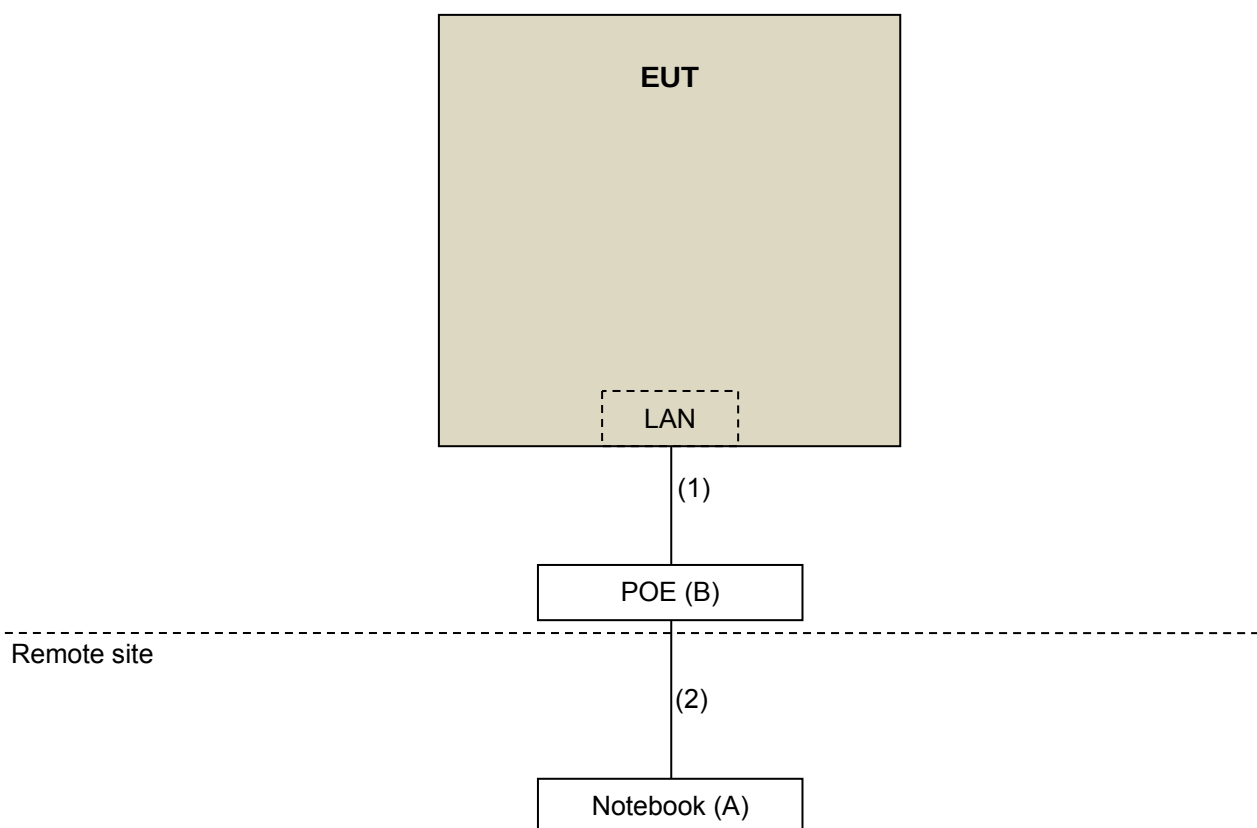
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	Lenovo	80Q7	PF0KUGU6	NA	-
B.	PoE	Microsemi	PD-9001GR/AC	NA	NA	-

Note: All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RJ45 cable	1	2	N	0	-
2.	RJ45 cable	1	10	N	0	-

3.4.1 Configuration of System under Test



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

KDB 662911 D01 Multiple Transmitter Output 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	☒	15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2(dBµV/m) ^{*1} PK: 105.2 (dBµV/m) ^{*2} PK: 110.8(dBµV/m) ^{*3} PK: 122.2 (dBµV/m) ^{*4}
	☐	15.407(b)(4)(ii)	Emission limits in section 15.247(d)	
^{*1} beyond 75 MHz or more above of the band edge.			^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.	
^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.			^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

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

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY55420137	Apr. 15, 2019	Apr. 14, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 12, 2019	Jun. 11, 2020
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Nov. 07, 2019	Nov. 06, 2020
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 25, 2018 Nov. 24, 2019	Nov. 24, 2019 Nov. 23, 2020
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 25, 2018 Nov. 24, 2019	Nov. 24, 2019 Nov. 23, 2020
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Jul. 11, 2019	Jul. 10, 2020
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 19, 2019 Feb. 18, 2020	Feb. 18, 2020 Feb. 17, 2021
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	Jan. 19, 2019 Jan. 18, 2020	Jan. 18, 2020 Jan. 17, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	Jul. 11, 2019	Jul. 10, 2020
RF signal cable Woken	8D-FB	Cable-CH9-01	Jul. 30, 2019	Jul. 29, 2020
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower & Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980175	Sep. 05, 2019	Sep. 04, 2020
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY55190 004/MY55190007/MY55 210005	Jul. 15, 2019	Jul. 14, 2020

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 Chamber 9.

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:

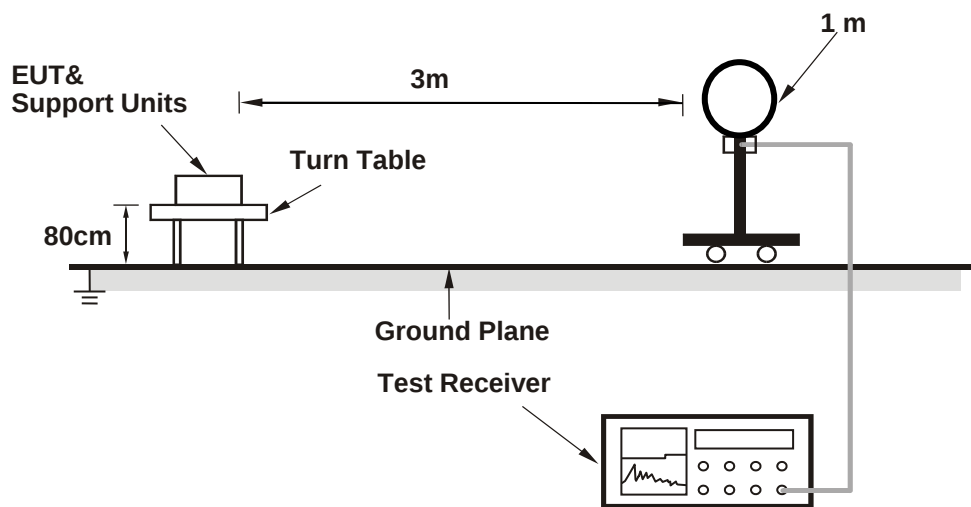
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
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.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

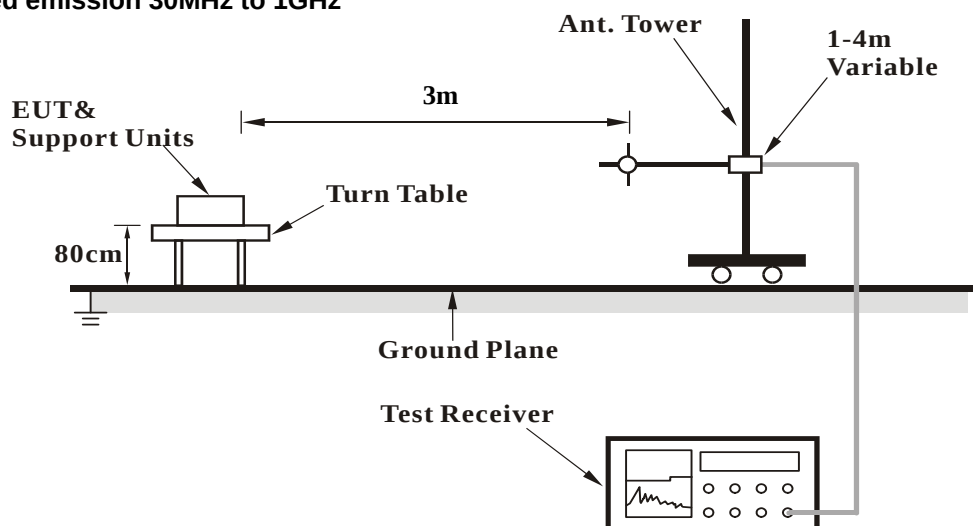
No deviation.

4.1.5 Test Setup

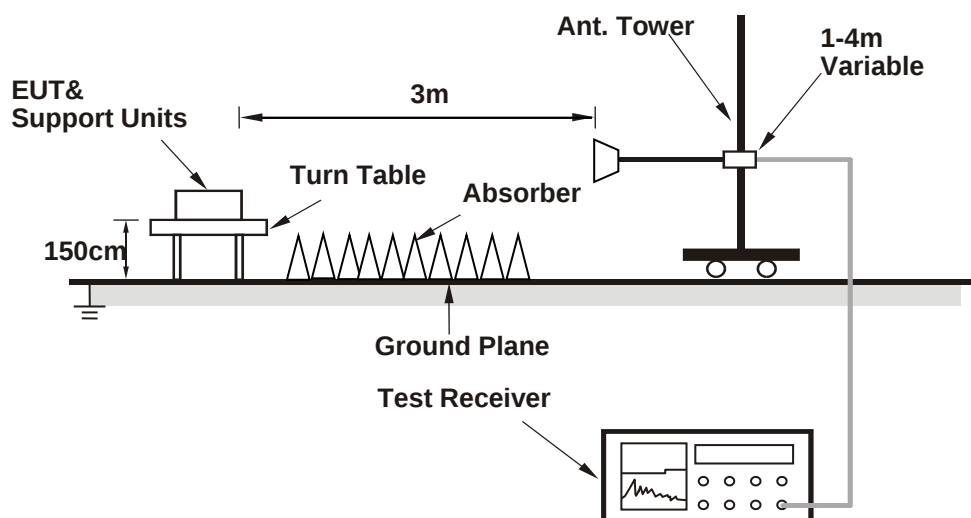
For Radiated emission below 30MHz



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

- a. Set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1GHz data:

Test Mode A

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	56.4 PK	74.0	-17.6	1.53 H	227	52.3	4.1
2	5150.00	45.7 AV	54.0	-8.3	1.53 H	227	41.6	4.1
3	*5180.00	103.1 PK			1.48 H	220	64.6	38.5
4	*5180.00	92.6 AV			1.48 H	220	54.1	38.5
5	#10360.00	57.8 PK	68.2	-10.4	1.68 H	203	41.3	16.5
6	15540.00	66.0 PK	74.0	-8.0	1.20 H	13	48.4	17.6
7	15540.00	51.0 AV	54.0	-3.0	1.20 H	13	33.4	17.6
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	5150.00	71.2 PK	74.0	-2.8	2.01 V	42	67.1	4.1
2	5150.00	52.7 AV	54.0	-1.3	2.01 V	42	48.6	4.1
3	*5180.00	116.5 PK			2.07 V	31	78.0	38.5
4	*5180.00	106.4 AV			2.07 V	31	67.9	38.5
5	#10360.00	58.1 PK	68.2	-10.1	2.78 V	345	41.6	16.5
6	15540.00	65.7 PK	74.0	-8.3	1.19 V	16	48.1	17.6
7	15540.00	50.8 AV	54.0	-3.2	1.19 V	16	33.2	17.6

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5200.00	103.1 PK			1.79 H	216	64.7	38.4
2	*5200.00	93.0 AV			1.79 H	216	54.6	38.4
3	#10400.00	57.7 PK	68.2	-10.5	1.73 H	235	41.2	16.5
4	15660.00	65.3 PK	74.0	-8.7	1.15 H	17	48.3	17.0
5	15660.00	50.2 AV	54.0	-3.8	1.15 H	17	33.2	17.0
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	*5200.00	116.7 PK			2.11 V	33	78.3	38.4
2	*5200.00	106.6 AV			2.11 V	33	68.2	38.4
3	#10400.00	58.3 PK	68.2	-9.9	2.82 V	336	41.8	16.5
4	15660.00	64.6 PK	74.0	-9.4	1.26 V	11	47.6	17.0
5	15660.00	49.7 AV	54.0	-4.3	1.26 V	11	32.7	17.0

Remarks:

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

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5240.00	103.3 PK			1.53 H	226	65.0	38.3
2	*5240.00	93.2 AV			1.53 H	226	54.9	38.3
3	5350.00	55.5 PK	74.0	-18.5	1.43 H	214	51.6	3.9
4	5350.00	45.3 AV	54.0	-8.7	1.43 H	214	41.4	3.9
5	#10480.00	57.8 PK	68.2	-10.4	1.79 H	234	41.5	16.3
6	15720.00	61.2 PK	74.0	-12.8	1.18 H	2	44.4	16.8
7	15720.00	48.6 AV	54.0	-5.4	1.18 H	2	31.8	16.8
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	*5240.00	116.9 PK			2.05 V	30	78.6	38.3
2	*5240.00	106.9 AV			2.05 V	30	68.6	38.3
3	5350.00	58.5 PK	74.0	-15.5	1.96 V	43	54.6	3.9
4	5350.00	48.1 AV	54.0	-5.9	1.96 V	43	44.2	3.9
5	#10480.00	58.5 PK	68.2	-9.7	2.83 V	337	42.2	16.3
6	15720.00	60.6 PK	74.0	-13.4	1.16 V	26	43.8	16.8
7	15720.00	48.2 AV	54.0	-5.8	1.16 V	26	31.4	16.8

Remarks:

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

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	54.4 PK	74.0	-19.6	1.32 H	274	50.3	4.1
2	5150.00	43.8 AV	54.0	-10.2	1.32 H	274	39.7	4.1
3	*5260.00	103.0 PK			1.46 H	287	64.8	38.2
4	*5260.00	92.8 AV			1.46 H	287	54.6	38.2
5	#10520.00	62.1 PK	68.2	-6.1	1.63 H	54	45.8	16.3
6	15780.00	67.9 PK	74.0	-6.1	1.28 H	29	51.3	16.6
7	15780.00	52.5 AV	54.0	-1.5	1.28 H	29	35.9	16.6
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	5150.00	54.7 PK	74.0	-19.3	1.78 V	16	50.6	4.1
2	5150.00	44.4 AV	54.0	-9.6	1.78 V	16	40.3	4.1
3	*5260.00	116.5 PK			1.81 V	10	78.3	38.2
4	*5260.00	106.2 AV			1.81 V	10	68.0	38.2
5	#10520.00	61.0 PK	68.2	-7.2	2.23 V	42	44.7	16.3
6	15780.00	68.2 PK	74.0	-5.8	1.20 V	15	51.6	16.6
7	15780.00	52.6 AV	54.0	-1.4	1.20 V	15	36.0	16.6

Remarks:

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

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5300.00	102.5 PK			1.41 H	209	64.4	38.1
2	*5300.00	92.2 AV			1.41 H	209	54.1	38.1
3	10600.00	61.5 PK	74.0	-12.5	1.57 H	48	45.0	16.5
4	10600.00	48.7 AV	54.0	-5.3	1.57 H	48	32.2	16.5
5	15900.00	69.2 PK	74.0	-4.8	1.13 H	17	52.4	16.8
6	15900.00	52.7 AV	54.0	-1.3	1.13 H	17	35.9	16.8
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	*5300.00	115.5 PK			1.98 V	27	77.4	38.1
2	*5300.00	105.3 AV			1.98 V	27	67.2	38.1
3	10600.00	61.1 PK	74.0	-12.9	2.12 V	20	44.6	16.5
4	10600.00	47.5 AV	54.0	-6.5	2.12 V	20	31.0	16.5
5	15900.00	68.0 PK	74.0	-6.0	1.08 V	19	51.2	16.8
6	15900.00	52.9 AV	54.0	-1.1	1.08 V	19	36.1	16.8

Remarks:

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

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5320.00	101.9 PK			1.36 H	212	63.7	38.2
2	*5320.00	91.6 AV			1.36 H	212	53.4	38.2
3	5350.00	63.5 PK	74.0	-10.5	1.31 H	204	59.6	3.9
4	5350.00	48.2 AV	54.0	-5.8	1.31 H	204	44.3	3.9
5	10640.00	61.9 PK	74.0	-12.1	1.53 H	45	45.2	16.7
6	10640.00	49.0 AV	54.0	-5.0	1.53 H	45	32.3	16.7
7	15960.00	69.3 PK	74.0	-4.7	1.22 H	17	52.7	16.6
8	15960.00	53.4 AV	54.0	-0.6	1.22 H	17	36.8	16.6
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	*5320.00	115.5 PK			1.92 V	31	77.3	38.2
2	*5320.00	105.2 AV			1.92 V	31	67.0	38.2
3	5350.00	68.6 PK	74.0	-5.4	2.12 V	30	64.7	3.9
4	5350.00	53.1 AV	54.0	-0.9	2.12 V	30	49.2	3.9
5	10640.00	61.2 PK	74.0	-12.8	1.93 V	20	44.5	16.7
6	10640.00	47.9 AV	54.0	-6.1	1.93 V	20	31.2	16.7
7	15960.00	67.9 PK	74.0	-6.1	1.88 V	6	51.3	16.6
8	15960.00	53.3 AV	54.0	-0.7	1.88 V	6	36.7	16.6

Remarks:

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

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	54.3 PK	74.0	-19.7	2.15 H	213	49.9	4.4
2	5460.00	41.4 AV	54.0	-12.6	2.15 H	213	37.0	4.4
3	#5470.00	57.5 PK	68.2	-10.7	2.20 H	213	53.0	4.5
4	*5500.00	104.2 PK			2.23 H	215	65.4	38.8
5	*5500.00	93.7 AV			2.23 H	215	54.9	38.8
6	11000.00	59.8 PK	74.0	-14.2	1.57 H	321	41.4	18.4
7	11000.00	47.3 AV	54.0	-6.7	1.57 H	321	28.9	18.4
8	#16500.00	67.1 PK	68.2	-1.1	1.00 H	325	48.8	18.3
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	5460.00	54.9 PK	74.0	-19.1	1.60 V	350	50.5	4.4
2	5460.00	42.2 AV	54.0	-11.8	1.60 V	350	37.8	4.4
3	#5470.00	65.5 PK	68.2	-2.7	1.66 V	354	61.0	4.5
4	*5500.00	115.0 PK			1.81 V	333	76.2	38.8
5	*5500.00	104.4 AV			1.81 V	333	65.6	38.8
6	11000.00	60.2 PK	74.0	-13.8	2.28 V	39	41.8	18.4
7	11000.00	47.0 AV	54.0	-7.0	2.28 V	39	28.6	18.4
8	#16500.00	64.4 PK	68.2	-3.8	1.12 V	22	46.1	18.3

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5580.00	104.9 PK			2.27 H	210	66.2	38.7
2	*5580.00	94.4 AV			2.27 H	210	55.7	38.7
3	11160.00	59.8 PK	74.0	-14.2	1.62 H	318	42.7	17.1
4	11160.00	46.5 AV	54.0	-7.5	1.62 H	318	29.4	17.1
5	#16740.00	67.3 PK	68.2	-0.9	1.03 H	323	45.7	21.6
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	*5580.00	115.7 PK			2.40 V	309	77.0	38.7
2	*5580.00	105.1 AV			2.40 V	309	66.4	38.7
3	11160.00	60.3 PK	74.0	-13.7	3.09 V	37	43.2	17.1
4	11160.00	47.7 AV	54.0	-6.3	3.09 V	37	30.6	17.1
5	#16740.00	64.8 PK	68.2	-3.4	2.87 V	2	43.2	21.6

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5700.00	101.6 PK			2.34 H	215	62.7	38.9
2	*5700.00	91.3 AV			2.34 H	215	52.4	38.9
3	#5725.00	57.8 PK	68.2	-10.4	2.34 H	212	53.2	4.6
4	11400.00	59.3 PK	74.0	-14.7	1.59 H	323	41.8	17.5
5	11400.00	46.9 AV	54.0	-7.1	1.59 H	323	29.4	17.5
6	#17100.00	67.5 PK	68.2	-0.7	1.11 H	317	44.9	22.6
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	*5700.00	112.3 PK			2.34 V	312	73.4	38.9
2	*5700.00	102.1 AV			2.34 V	312	63.2	38.9
3	#5725.00	61.9 PK	68.2	-6.3	2.26 V	317	57.3	4.6
4	11400.00	60.0 PK	74.0	-14.0	3.04 V	42	42.5	17.5
5	11400.00	47.9 AV	54.0	-6.1	3.04 V	42	30.4	17.5
6	#17100.00	65.9 PK	68.2	-2.3	2.82 V	11	43.3	22.6

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5608.00	55.2 PK	68.2	-13.0	2.21 H	214	50.8	4.4
2	*5745.00	100.7 PK			2.21 H	214	61.7	39.0
3	*5745.00	90.5 AV			2.21 H	214	51.5	39.0
4	#5948.80	54.7 PK	68.2	-13.5	2.21 H	214	49.4	5.3
5	11490.00	65.3 PK	74.0	-8.7	1.20 H	358	48.5	16.8
6	11490.00	52.2 AV	54.0	-1.8	1.20 H	358	35.4	16.8
7	#17235.00	67.2 PK	68.2	-1.0	1.27 H	338	43.7	23.5
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	#5635.20	55.6 PK	68.2	-12.6	1.78 V	334	51.0	4.6
2	*5745.00	114.9 PK			1.78 V	334	75.9	39.0
3	*5745.00	104.6 AV			1.78 V	334	65.6	39.0
4	#5942.40	56.9 PK	68.2	-11.3	1.78 V	334	51.6	5.3
5	11490.00	64.2 PK	74.0	-9.8	1.16 V	7	47.4	16.8
6	11490.00	50.9 AV	54.0	-3.1	1.16 V	7	34.1	16.8
7	#17235.00	66.5 PK	68.2	-1.7	1.26 V	36	43.0	23.5

Remarks:

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

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5618.40	55.1 PK	68.2	-13.1	2.23 H	217	50.6	4.5
2	*5785.00	102.0 PK			2.23 H	217	62.8	39.2
3	*5785.00	91.9 AV			2.23 H	217	52.7	39.2
4	#5944.00	54.5 PK	68.2	-13.7	2.23 H	217	49.2	5.3
5	11570.00	64.5 PK	74.0	-9.5	1.16 H	357	47.9	16.6
6	11570.00	51.4 AV	54.0	-2.6	1.16 H	357	34.8	16.6
7	#17355.00	67.0 PK	68.2	-1.2	1.18 H	337	43.5	23.5
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	#5642.40	55.6 PK	68.2	-12.6	1.76 V	337	51.0	4.6
2	*5785.00	116.1 PK			1.76 V	337	76.9	39.2
3	*5785.00	105.9 AV			1.76 V	337	66.7	39.2
4	#5932.00	56.7 PK	68.2	-11.5	1.76 V	337	51.4	5.3
5	11570.00	65.4 PK	74.0	-8.6	1.15 V	3	48.8	16.6
6	11570.00	50.5 AV	54.0	-3.5	1.15 V	3	33.9	16.6
7	#17355.00	66.4 PK	68.2	-1.8	1.23 V	37	42.9	23.5

Remarks:

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

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5608.00	55.7 PK	68.2	-12.5	2.20 H	215	51.3	4.4
2	*5825.00	101.2 PK			2.20 H	215	61.8	39.4
3	*5825.00	91.0 AV			2.20 H	215	51.6	39.4
4	#5990.40	56.3 PK	68.2	-11.9	2.20 H	215	51.0	5.3
5	11650.00	63.6 PK	74.0	-10.4	1.24 H	355	47.1	16.5
6	11650.00	50.6 AV	54.0	-3.4	1.24 H	355	34.1	16.5
7	#17475.00	67.7 PK	68.2	-0.5	1.33 H	339	43.4	24.3
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	#5613.60	55.3 PK	68.2	-12.9	1.74 V	337	50.8	4.5
2	*5825.00	115.2 PK			1.74 V	337	75.8	39.4
3	*5825.00	105.0 AV			1.74 V	337	65.6	39.4
4	#5996.00	56.9 PK	68.2	-11.3	1.74 V	337	51.6	5.3
5	11650.00	62.6 PK	74.0	-11.4	1.15 V	11	46.1	16.5
6	11650.00	49.7 AV	54.0	-4.3	1.15 V	11	33.2	16.5
7	#17475.00	67.1 PK	68.2	-1.1	1.22 V	31	42.8	24.3

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

802.11ac (VHT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	55.8 PK	74.0	-18.2	1.43 H	215	51.7	4.1
2	5150.00	45.7 AV	54.0	-8.3	1.43 H	215	41.6	4.1
3	*5180.00	102.6 PK			1.53 H	224	64.1	38.5
4	*5180.00	92.1 AV			1.53 H	224	53.6	38.5
5	#10360.00	57.7 PK	68.2	-10.5	1.73 H	242	41.2	16.5
6	15540.00	67.3 PK	74.0	-6.7	1.12 H	4	49.7	17.6
7	15540.00	50.2 AV	54.0	-3.8	1.12 H	4	32.6	17.6
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	5150.00	70.1 PK	74.0	-3.9	1.88 V	49	66.0	4.1
2	5150.00	53.2 AV	54.0	-0.8	1.88 V	49	49.1	4.1
3	*5180.00	116.2 PK			2.07 V	31	77.7	38.5
4	*5180.00	105.7 AV			2.07 V	31	67.2	38.5
5	#10360.00	58.2 PK	68.2	-10.0	2.88 V	341	41.7	16.5
6	15540.00	67.0 PK	74.0	-7.0	1.19 V	12	49.4	17.6
7	15540.00	49.9 AV	54.0	-4.1	1.19 V	12	32.3	17.6

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5200.00	103.2 PK			1.43 H	217	64.8	38.4
2	*5200.00	92.9 AV			1.43 H	217	54.5	38.4
3	#10400.00	58.1 PK	68.2	-10.1	1.79 H	237	41.6	16.5
4	15600.00	67.6 PK	74.0	-6.4	1.21 H	19	50.2	17.4
5	15600.00	50.3 AV	54.0	-3.7	1.21 H	19	32.9	17.4
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	*5200.00	117.2 PK			2.09 V	33	78.8	38.4
2	*5200.00	106.7 AV			2.09 V	33	68.3	38.4
3	#10400.00	58.9 PK	68.2	-9.3	2.72 V	336	42.4	16.5
4	15600.00	67.2 PK	74.0	-6.8	1.26 V	18	49.8	17.4
5	15600.00	49.8 AV	54.0	-4.2	1.26 V	18	32.4	17.4

Remarks:

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

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5240.00	103.5 PK			1.41 H	213	65.2	38.3
2	*5240.00	93.0 AV			1.41 H	213	54.7	38.3
3	5350.00	53.5 PK	74.0	-20.5	1.36 H	208	49.6	3.9
4	5350.00	43.2 AV	54.0	-10.8	1.36 H	208	39.3	3.9
5	#10480.00	57.7 PK	68.2	-10.5	1.67 H	235	41.4	16.3
6	15720.00	66.2 PK	74.0	-7.8	1.17 H	18	49.4	16.8
7	15720.00	49.0 AV	54.0	-5.0	1.17 H	18	32.2	16.8
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	*5240.00	117.2 PK			2.13 V	29	78.9	38.3
2	*5240.00	106.7 AV			2.13 V	29	68.4	38.3
3	5350.00	54.1 PK	74.0	-19.9	2.06 V	44	50.2	3.9
4	5350.00	43.7 AV	54.0	-10.3	2.06 V	44	39.8	3.9
5	#10480.00	58.8 PK	68.2	-9.4	2.82 V	340	42.5	16.3
6	15720.00	65.6 PK	74.0	-8.4	1.22 V	14	48.8	16.8
7	15720.00	48.5 AV	54.0	-5.5	1.22 V	14	31.7	16.8

Remarks:

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

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	53.7 PK	74.0	-20.3	1.32 H	272	49.6	4.1
2	5150.00	43.5 AV	54.0	-10.5	1.32 H	272	39.4	4.1
3	*5260.00	105.3 PK			1.38 H	287	67.1	38.2
4	*5260.00	94.4 AV			1.38 H	287	56.2	38.2
5	#10520.00	63.9 PK	68.2	-4.3	1.66 H	49	47.6	16.3
6	15780.00	69.8 PK	74.0	-4.2	1.27 H	25	53.2	16.6
7	15780.00	52.0 AV	54.0	-2.0	1.27 H	25	35.4	16.6
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	5150.00	54.3 PK	74.0	-19.7	1.86 V	21	50.2	4.1
2	5150.00	44.1 AV	54.0	-9.9	1.86 V	21	40.0	4.1
3	*5260.00	118.9 PK			1.78 V	12	80.7	38.2
4	*5260.00	107.9 AV			1.78 V	12	69.7	38.2
5	#10520.00	61.4 PK	68.2	-6.8	2.18 V	38	45.1	16.3
6	15780.00	69.5 PK	74.0	-4.5	1.25 V	14	52.9	16.6
7	15780.00	51.8 AV	54.0	-2.2	1.25 V	14	35.2	16.6

Remarks:

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

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5300.00	104.0 PK			1.37 H	283	65.9	38.1
2	*5300.00	93.3 AV			1.37 H	283	55.2	38.1
3	10600.00	62.8 PK	74.0	-11.2	1.53 H	56	46.3	16.5
4	10600.00	48.9 AV	54.0	-5.1	1.53 H	56	32.4	16.5
5	15900.00	70.8 PK	74.0	-3.2	1.18 H	23	54.0	16.8
6	15900.00	52.9 AV	54.0	-1.1	1.18 H	23	36.1	16.8
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	*5300.00	117.7 PK			1.83 V	18	79.6	38.1
2	*5300.00	106.9 AV			1.83 V	18	68.8	38.1
3	10600.00	61.7 PK	74.0	-12.3	2.16 V	36	45.2	16.5
4	10600.00	47.8 AV	54.0	-6.2	2.16 V	36	31.3	16.5
5	15900.00	71.0 PK	74.0	-3.0	1.03 V	20	54.2	16.8
6	15900.00	53.0 AV	54.0	-1.0	1.03 V	20	36.2	16.8

Remarks:

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

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5320.00	102.4 PK			1.36 H	272	64.2	38.2
2	*5320.00	92.0 AV			1.36 H	272	53.8	38.2
3	5350.00	64.1 PK	74.0	-9.9	1.31 H	267	60.2	3.9
4	5350.00	48.2 AV	54.0	-5.8	1.31 H	267	44.3	3.9
5	10640.00	61.4 PK	74.0	-12.6	1.53 H	59	44.7	16.7
6	10640.00	49.0 AV	54.0	-5.0	1.53 H	59	32.3	16.7
7	15960.00	68.9 PK	74.0	-5.1	1.27 H	28	52.3	16.6
8	15960.00	52.4 AV	54.0	-1.6	1.27 H	28	35.8	16.6
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	*5320.00	116.0 PK			1.93 V	29	77.8	38.2
2	*5320.00	105.7 AV			1.93 V	29	67.5	38.2
3	5350.00	68.5 PK	74.0	-5.5	1.81 V	53	64.6	3.9
4	5350.00	52.6 AV	54.0	-1.4	1.81 V	53	48.7	3.9
5	10640.00	60.5 PK	74.0	-13.5	2.11 V	39	43.8	16.7
6	10640.00	47.7 AV	54.0	-6.3	2.11 V	39	31.0	16.7
7	15960.00	67.3 PK	74.0	-6.7	1.16 V	23	50.7	16.6
8	15960.00	51.8 AV	54.0	-2.2	1.16 V	23	35.2	16.6

Remarks:

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

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	54.8 PK	74.0	-19.2	2.36 H	208	50.4	4.4
2	5460.00	44.2 AV	54.0	-9.8	2.36 H	208	39.8	4.4
3	#5470.00	58.1 PK	68.2	-10.1	2.43 H	212	53.6	4.5
4	*5500.00	104.9 PK			2.32 H	218	66.1	38.8
5	*5500.00	94.4 AV			2.32 H	218	55.6	38.8
6	11000.00	59.6 PK	74.0	-14.4	1.62 H	319	41.2	18.4
7	11000.00	46.7 AV	54.0	-7.3	1.62 H	319	28.3	18.4
8	#16500.00	66.5 PK	68.2	-1.7	1.34 H	346	48.2	18.3
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	5460.00	55.7 PK	74.0	-18.3	1.28 V	316	51.3	4.4
2	5460.00	45.0 AV	54.0	-9.0	1.28 V	316	40.6	4.4
3	#5470.00	66.9 PK	68.2	-1.3	1.21 V	308	62.4	4.5
4	*5500.00	115.6 PK			1.79 V	333	76.8	38.8
5	*5500.00	105.1 AV			1.79 V	333	66.3	38.8
6	11000.00	60.0 PK	74.0	-14.0	2.31 V	42	41.6	18.4
7	11000.00	46.7 AV	54.0	-7.3	2.31 V	42	28.3	18.4
8	#16500.00	63.6 PK	68.2	-4.6	1.27 V	26	45.3	18.3

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5580.00	103.9 PK			2.26 H	211	65.2	38.7
2	*5580.00	93.5 AV			2.26 H	211	54.8	38.7
3	11160.00	60.0 PK	74.0	-14.0	1.58 H	323	42.9	17.1
4	11160.00	46.8 AV	54.0	-7.2	1.58 H	323	29.7	17.1
5	#16740.00	67.1 PK	68.2	-1.1	1.28 H	345	45.5	21.6
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	*5580.00	114.6 PK			2.37 V	311	75.9	38.7
2	*5580.00	104.3 AV			2.37 V	311	65.6	38.7
3	11160.00	60.1 PK	74.0	-13.9	3.03 V	42	43.0	17.1
4	11160.00	47.5 AV	54.0	-6.5	3.03 V	42	30.4	17.1
5	#16740.00	66.2 PK	68.2	-2.0	2.83 V	22	44.6	21.6

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5700.00	101.0 PK			2.30 H	215	62.1	38.9
2	*5700.00	90.6 AV			2.30 H	215	51.7	38.9
3	#5725.00	58.2 PK	68.2	-10.0	2.26 H	204	53.6	4.6
4	11400.00	59.1 PK	74.0	-14.9	1.63 H	318	41.6	17.5
5	11400.00	46.5 AV	54.0	-7.5	1.63 H	318	29.0	17.5
6	#17100.00	66.9 PK	68.2	-1.3	1.27 H	341	44.3	22.6
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	*5700.00	111.7 PK			2.43 V	306	72.8	38.9
2	*5700.00	101.3 AV			2.43 V	306	62.4	38.9
3	#5725.00	62.9 PK	68.2	-5.3	2.33 V	302	58.3	4.6
4	11400.00	59.9 PK	74.0	-14.1	3.11 V	53	42.4	17.5
5	11400.00	47.7 AV	54.0	-6.3	3.11 V	53	30.2	17.5
6	#17100.00	66.2 PK	68.2	-2.0	2.89 V	24	43.6	22.6

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5609.60	55.1 PK	68.2	-13.1	2.46 H	216	50.7	4.4
2	*5745.00	102.3 PK			2.46 H	216	63.3	39.0
3	*5745.00	92.1 AV			2.46 H	216	53.1	39.0
4	#5926.40	54.7 PK	68.2	-13.5	2.46 H	216	49.4	5.3
5	11490.00	66.0 PK	74.0	-8.0	1.19 H	341	49.2	16.8
6	11490.00	51.4 AV	54.0	-2.6	1.19 H	341	34.6	16.8
7	#17235.00	67.1 PK	68.2	-1.1	1.21 H	338	43.6	23.5
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	#5616.00	56.0 PK	68.2	-12.2	1.76 V	335	51.5	4.5
2	*5745.00	116.3 PK			1.76 V	335	77.3	39.0
3	*5745.00	106.2 AV			1.76 V	335	67.2	39.0
4	#5932.00	56.5 PK	68.2	-11.7	1.76 V	335	51.2	5.3
5	11490.00	64.7 PK	74.0	-9.3	1.18 V	5	47.9	16.8
6	11490.00	50.5 AV	54.0	-3.5	1.18 V	5	33.7	16.8
7	#17235.00	66.7 PK	68.2	-1.5	1.22 V	30	43.2	23.5

Remarks:

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

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5622.40	54.3 PK	68.2	-13.9	2.42 H	213	49.8	4.5
2	*5785.00	103.1 PK			2.42 H	213	63.9	39.2
3	*5785.00	93.0 AV			2.42 H	213	53.8	39.2
4	#5992.80	54.6 PK	68.2	-13.6	2.42 H	213	49.3	5.3
5	11570.00	64.8 PK	74.0	-9.2	1.24 H	347	48.2	16.6
6	11570.00	51.6 AV	54.0	-2.4	1.24 H	347	35.0	16.6
7	#17355.00	67.3 PK	68.2	-0.9	1.56 H	339	43.8	23.5
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	#5616.00	55.1 PK	68.2	-13.1	1.72 V	337	50.6	4.5
2	*5785.00	117.1 PK			1.72 V	337	77.9	39.2
3	*5785.00	106.9 AV			1.72 V	337	67.7	39.2
4	#5933.60	56.3 PK	68.2	-11.9	1.72 V	337	51.0	5.3
5	11570.00	63.4 PK	74.0	-10.6	1.18 V	10	46.8	16.6
6	11570.00	50.3 AV	54.0	-3.7	1.18 V	10	33.7	16.6
7	#17355.00	66.4 PK	68.2	-1.8	1.32 V	34	42.9	23.5

Remarks:

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

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5637.60	54.6 PK	68.2	-13.6	2.38 H	216	50.0	4.6
2	*5825.00	100.2 PK			2.38 H	216	60.8	39.4
3	*5825.00	90.0 AV			2.38 H	216	50.6	39.4
4	#5976.80	56.9 PK	68.2	-11.3	2.38 H	216	51.6	5.3
5	11650.00	66.1 PK	74.0	-7.9	1.25 H	342	49.6	16.5
6	11650.00	51.1 AV	54.0	-2.9	1.25 H	342	34.6	16.5
7	#17475.00	67.6 PK	68.2	-0.6	1.62 H	338	43.3	24.3
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	#5612.00	54.9 PK	68.2	-13.3	1.78 V	341	50.5	4.4
2	*5825.00	114.1 PK			1.78 V	341	74.7	39.4
3	*5825.00	103.9 AV			1.78 V	341	64.5	39.4
4	#5936.80	56.7 PK	68.2	-11.5	1.78 V	341	51.4	5.3
5	11650.00	65.1 PK	74.0	-8.9	1.09 V	12	48.6	16.5
6	11650.00	50.2 AV	54.0	-3.8	1.09 V	12	33.7	16.5
7	#17475.00	66.9 PK	68.2	-1.3	1.32 V	28	42.6	24.3

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

802.11ac (VHT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	61.9 PK	74.0	-12.1	1.43 H	217	57.8	4.1
2	5150.00	48.5 AV	54.0	-5.5	1.43 H	217	44.4	4.1
3	*5190.00	96.7 PK			1.56 H	229	58.3	38.4
4	*5190.00	87.1 AV			1.56 H	229	48.7	38.4
5	#10380.00	57.3 PK	68.2	-10.9	1.76 H	239	40.7	16.6
6	15570.00	63.9 PK	74.0	-10.1	1.23 H	19	46.3	17.6
7	15570.00	46.8 AV	54.0	-7.2	1.23 H	19	29.2	17.6
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	5150.00	67.3 PK	74.0	-6.7	2.08 V	24	63.2	4.1
2	5150.00	53.3 AV	54.0	-0.7	2.08 V	24	49.2	4.1
3	*5190.00	110.4 PK			1.97 V	29	72.0	38.4
4	*5190.00	100.6 AV			1.97 V	29	62.2	38.4
5	#10380.00	57.9 PK	68.2	-10.3	2.88 V	352	41.3	16.6
6	15570.00	63.4 PK	74.0	-10.6	1.14 V	13	45.8	17.6
7	15570.00	46.5 AV	54.0	-7.5	1.14 V	13	28.9	17.6

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5230.00	100.9 PK			1.55 H	218	62.7	38.2
2	*5230.00	91.3 AV			1.55 H	218	53.1	38.2
3	5350.00	54.1 PK	74.0	-19.9	1.40 H	209	50.2	3.9
4	5350.00	43.6 AV	54.0	-10.4	1.40 H	209	39.7	3.9
5	#10460.00	56.9 PK	68.2	-11.3	1.67 H	233	40.6	16.3
6	15690.00	65.7 PK	74.0	-8.3	1.15 H	9	48.8	16.9
7	15690.00	48.6 AV	54.0	-5.4	1.15 H	9	31.7	16.9
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	*5230.00	114.5 PK			2.03 V	32	76.3	38.2
2	*5230.00	104.8 AV			2.03 V	32	66.6	38.2
3	5350.00	54.6 PK	74.0	-19.4	1.96 V	42	50.7	3.9
4	5350.00	44.3 AV	54.0	-9.7	1.96 V	42	40.4	3.9
5	#10460.00	57.6 PK	68.2	-10.6	2.74 V	336	41.3	16.3
6	15690.00	65.2 PK	74.0	-8.8	1.26 V	18	48.3	16.9
7	15690.00	48.3 AV	54.0	-5.7	1.26 V	18	31.4	16.9

Remarks:

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

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	54.4 PK	74.0	-19.6	1.37 H	271	50.3	4.1
2	5150.00	43.7 AV	54.0	-10.3	1.37 H	271	39.6	4.1
3	*5270.00	101.9 PK			1.44 H	276	63.7	38.2
4	*5270.00	92.4 AV			1.44 H	276	54.2	38.2
5	#10540.00	62.6 PK	68.2	-5.6	1.66 H	53	46.2	16.4
6	15810.00	67.7 PK	74.0	-6.3	1.23 H	21	51.2	16.5
7	15810.00	52.8 AV	54.0	-1.2	1.23 H	21	36.3	16.5
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	5150.00	54.8 PK	74.0	-19.2	1.74 V	26	50.7	4.1
2	5150.00	44.4 AV	54.0	-9.6	1.74 V	26	40.3	4.1
3	*5270.00	115.4 PK			1.80 V	30	77.2	38.2
4	*5270.00	105.9 AV			1.80 V	30	67.7	38.2
5	#10540.00	61.2 PK	68.2	-7.0	2.18 V	39	44.8	16.4
6	15810.00	66.2 PK	74.0	-7.8	1.78 V	11	49.7	16.5
7	15810.00	51.7 AV	54.0	-2.3	1.78 V	11	35.2	16.5

Remarks:

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

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5310.00	97.6 PK			1.43 H	281	59.4	38.2
2	*5310.00	88.0 AV			1.43 H	281	49.8	38.2
3	5350.00	61.3 PK	74.0	-12.7	1.34 H	277	57.4	3.9
4	5350.00	48.1 AV	54.0	-5.9	1.34 H	277	44.2	3.9
5	10620.00	60.3 PK	74.0	-13.7	1.63 H	57	43.6	16.7
6	10620.00	47.9 AV	54.0	-6.1	1.63 H	57	31.2	16.7
7	15930.00	67.0 PK	74.0	-7.0	1.22 H	25	50.3	16.7
8	15930.00	51.1 AV	54.0	-2.9	1.22 H	25	34.4	16.7
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	*5310.00	111.0 PK			1.95 V	26	72.8	38.2
2	*5310.00	101.6 AV			1.95 V	26	63.4	38.2
3	5350.00	66.1 PK	74.0	-7.9	2.05 V	24	62.2	3.9
4	5350.00	52.8 AV	54.0	-1.2	2.05 V	24	48.9	3.9
5	10620.00	59.2 PK	74.0	-14.8	2.07 V	43	42.5	16.7
6	10620.00	47.0 AV	54.0	-7.0	2.07 V	43	30.3	16.7
7	15930.00	65.9 PK	74.0	-8.1	1.24 V	26	49.2	16.7
8	15930.00	50.1 AV	54.0	-3.9	1.24 V	26	33.4	16.7

Remarks:

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

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	55.2 PK	74.0	-18.8	2.17 H	212	50.8	4.4
2	5460.00	44.6 AV	54.0	-9.4	2.17 H	212	40.2	4.4
3	#5470.00	62.9 PK	68.2	-5.3	2.13 H	204	58.4	4.5
4	*5510.00	100.6 PK			2.26 H	217	61.8	38.8
5	*5510.00	90.2 AV			2.26 H	217	51.4	38.8
6	11020.00	59.7 PK	74.0	-14.3	1.59 H	316	41.6	18.1
7	11020.00	47.6 AV	54.0	-6.4	1.59 H	316	29.5	18.1
8	#16530.00	61.6 PK	68.2	-6.6	1.09 H	325	42.8	18.8
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	5460.00	59.0 PK	74.0	-15.0	1.42 V	338	54.6	4.4
2	5460.00	45.6 AV	54.0	-8.4	1.42 V	338	41.2	4.4
3	#5470.00	67.0 PK	68.2	-1.2	1.49 V	334	62.5	4.5
4	*5510.00	110.4 PK			1.67 V	334	71.6	38.8
5	*5510.00	100.9 AV			1.67 V	334	62.1	38.8
6	11020.00	60.4 PK	74.0	-13.6	2.36 V	43	42.3	18.1
7	11020.00	47.7 AV	54.0	-6.3	2.36 V	43	29.6	18.1
8	#16530.00	61.1 PK	68.2	-7.1	1.16 V	32	42.3	18.8

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5550.00	104.3 PK			2.25 H	219	65.6	38.7
2	*5550.00	93.9 AV			2.25 H	219	55.2	38.7
3	11100.00	60.6 PK	74.0	-13.4	1.52 H	308	43.4	17.2
4	11100.00	47.8 AV	54.0	-6.2	1.52 H	308	30.6	17.2
5	#16650.00	67.0 PK	68.2	-1.2	1.05 H	349	46.3	20.7
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	*5550.00	113.9 PK			1.78 V	336	75.2	38.7
2	*5550.00	104.5 AV			1.78 V	336	65.8	38.7
3	11100.00	61.5 PK	74.0	-12.5	2.42 V	54	44.3	17.2
4	11100.00	48.7 AV	54.0	-5.3	2.42 V	54	31.5	17.2
5	#16650.00	65.5 PK	68.2	-2.7	1.08 V	35	44.8	20.7

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5670.00	106.6 PK			2.20 H	214	67.6	39.0
2	*5670.00	93.7 AV			2.20 H	214	54.7	39.0
3	#5725.00	62.5 PK	68.2	-5.7	2.35 H	224	57.9	4.6
4	11340.00	60.1 PK	74.0	-13.9	1.57 H	299	42.4	17.7
5	11340.00	48.0 AV	54.0	-6.0	1.57 H	299	30.3	17.7
6	#17010.00	67.0 PK	68.2	-1.2	1.05 H	343	44.0	23.0
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	*5670.00	114.1 PK			1.81 V	335	75.1	39.0
2	*5670.00	104.4 AV			1.81 V	335	65.4	39.0
3	#5725.00	66.7 PK	68.2	-1.5	1.80 V	335	62.1	4.6
4	11340.00	61.1 PK	74.0	-12.9	2.37 V	48	43.4	17.7
5	11340.00	48.9 AV	54.0	-5.1	2.37 V	48	31.2	17.7
6	#17010.00	65.7 PK	68.2	-2.5	1.13 V	31	42.7	23.0

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5616.00	54.1 PK	68.2	-14.1	2.37 H	215	49.6	4.5
2	*5755.00	100.4 PK			2.37 H	215	61.3	39.1
3	*5755.00	91.2 AV			2.37 H	215	52.1	39.1
4	#5948.00	55.8 PK	68.2	-12.4	2.37 H	215	50.5	5.3
5	11510.00	64.2 PK	74.0	-9.8	1.17 H	320	47.4	16.8
6	11510.00	51.6 AV	54.0	-2.4	1.17 H	320	34.8	16.8
7	#17265.00	67.4 PK	68.2	-0.8	1.64 H	340	43.8	23.6
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	#5636.00	56.0 PK	68.2	-12.2	1.76 V	338	51.4	4.6
2	*5755.00	114.7 PK			1.76 V	338	75.6	39.1
3	*5755.00	105.1 AV			1.76 V	338	66.0	39.1
4	#5931.20	56.8 PK	68.2	-11.4	1.76 V	338	51.5	5.3
5	11510.00	63.1 PK	74.0	-10.9	1.21 V	19	46.3	16.8
6	11510.00	50.6 AV	54.0	-3.4	1.21 V	19	33.8	16.8
7	#17265.00	66.9 PK	68.2	-1.3	1.27 V	42	43.3	23.6

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5602.40	54.2 PK	68.2	-14.0	2.28 H	217	49.8	4.4
2	*5795.00	100.6 PK			2.28 H	217	61.4	39.2
3	*5795.00	91.3 AV			2.28 H	217	52.1	39.2
4	#5973.60	55.7 PK	68.2	-12.5	2.28 H	217	50.4	5.3
5	11590.00	64.3 PK	74.0	-9.7	1.12 H	340	47.8	16.5
6	11590.00	51.0 AV	54.0	-3.0	1.12 H	340	34.5	16.5
7	#17385.00	67.1 PK	68.2	-1.1	1.37 H	339	43.9	23.2
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	#5647.20	56.4 PK	68.2	-11.8	1.71 V	338	51.8	4.6
2	*5795.00	114.8 PK			1.71 V	338	75.6	39.2
3	*5795.00	105.3 AV			1.71 V	338	66.1	39.2
4	#5992.00	57.9 PK	68.2	-10.3	1.71 V	338	52.6	5.3
5	11590.00	63.2 PK	74.0	-10.8	1.19 V	13	46.7	16.5
6	11590.00	50.2 AV	54.0	-3.8	1.19 V	13	33.7	16.5
7	#17385.00	66.4 PK	68.2	-1.8	1.24 V	39	43.2	23.2

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

802.11ac (VHT80)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	58.4 PK	74.0	-15.6	1.51 H	216	54.3	4.1
2	5150.00	46.8 AV	54.0	-7.2	1.51 H	216	42.7	4.1
3	*5210.00	91.4 PK			1.58 H	224	53.1	38.3
4	*5210.00	81.6 AV			1.58 H	224	43.3	38.3
5	5350.00	54.2 PK	74.0	-19.8	1.63 H	231	50.3	3.9
6	5350.00	43.9 AV	54.0	-10.1	1.63 H	231	40.0	3.9
7	#10420.00	56.7 PK	68.2	-11.5	1.64 H	230	40.2	16.5
8	15630.00	61.8 PK	74.0	-12.2	1.17 H	14	44.5	17.3
9	15630.00	48.9 AV	54.0	-5.1	1.17 H	14	31.6	17.3
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	5150.00	65.8 PK	74.0	-8.2	2.08 V	25	61.7	4.1
2	5150.00	53.4 AV	54.0	-0.6	2.08 V	25	49.3	4.1
3	*5210.00	104.9 PK			2.02 V	31	66.6	38.3
4	*5210.00	95.0 AV			2.02 V	31	56.7	38.3
5	5350.00	54.5 PK	74.0	-19.5	2.03 V	26	50.6	3.9
6	5350.00	44.3 AV	54.0	-9.7	2.03 V	26	40.4	3.9
7	#10420.00	57.3 PK	68.2	-10.9	2.73 V	351	40.8	16.5
8	15630.00	61.3 PK	74.0	-12.7	1.25 V	16	44.0	17.3
9	15630.00	48.5 AV	54.0	-5.5	1.25 V	16	31.2	17.3

Remarks:

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

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5290.00	92.7 PK			1.48 H	284	54.6	38.1
2	*5290.00	82.9 AV			1.48 H	284	44.8	38.1
3	5350.00	62.1 PK	74.0	-11.9	1.40 H	279	58.2	3.9
4	5350.00	48.2 AV	54.0	-5.8	1.40 H	279	44.3	3.9
5	#10580.00	59.9 PK	68.2	-8.3	1.61 H	55	43.3	16.6
6	15870.00	60.0 PK	74.0	-14.0	1.25 H	26	43.4	16.6
7	15870.00	47.2 AV	54.0	-6.8	1.25 H	26	30.6	16.6
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	*5290.00	106.2 PK			1.97 V	28	68.1	38.1
2	*5290.00	96.5 AV			1.97 V	28	58.4	38.1
3	5350.00	66.3 PK	74.0	-7.7	2.04 V	24	62.4	3.9
4	5350.00	52.6 AV	54.0	-1.4	2.04 V	24	48.7	3.9
5	#10580.00	59.3 PK	68.2	-8.9	2.31 V	52	42.7	16.6
6	15870.00	58.8 PK	74.0	-15.2	1.22 V	6	42.2	16.6
7	15870.00	45.9 AV	54.0	-8.1	1.22 V	6	29.3	16.6

Remarks:

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

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	57.8 PK	74.0	-16.2	2.27 H	213	53.4	4.4
2	5460.00	45.8 AV	54.0	-8.2	2.27 H	213	41.4	4.4
3	#5470.00	62.7 PK	68.2	-5.5	2.29 H	211	58.2	4.5
4	*5530.00	96.2 PK			2.15 H	210	57.5	38.7
5	*5530.00	86.0 AV			2.15 H	210	47.3	38.7
6	#5725.00	55.0 PK	68.2	-13.2	2.21 H	205	50.4	4.6
7	11060.00	58.7 PK	74.0	-15.3	1.58 H	302	40.9	17.8
8	11060.00	46.4 AV	54.0	-7.6	1.58 H	302	28.6	17.8
9	#16590.00	64.2 PK	68.2	-4.0	1.21 H	336	44.3	19.9
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	5460.00	63.0 PK	74.0	-11.0	1.72 V	338	58.6	4.4
2	5460.00	49.7 AV	54.0	-4.3	1.72 V	338	45.3	4.4
3	#5470.00	66.8 PK	68.2	-1.4	1.79 V	335	62.3	4.5
4	*5530.00	106.5 PK			1.78 V	337	67.8	38.7
5	*5530.00	96.6 AV			1.78 V	337	57.9	38.7
6	#5725.00	55.9 PK	68.2	-12.3	1.83 V	342	51.3	4.6
7	11060.00	59.4 PK	74.0	-14.6	2.23 V	34	41.6	17.8
8	11060.00	47.1 AV	54.0	-6.9	2.23 V	34	29.3	17.8
9	#16590.00	62.3 PK	68.2	-5.9	1.13 V	37	42.4	19.9

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	56.8 PK	74.0	-17.2	2.20 H	209	52.4	4.4
2	5460.00	45.2 AV	54.0	-8.8	2.20 H	209	40.8	4.4
3	#5470.00	58.1 PK	68.2	-10.1	2.18 H	207	53.6	4.5
4	*5610.00	101.3 PK			2.26 H	218	62.4	38.9
5	*5610.00	91.4 AV			2.26 H	218	52.5	38.9
6	#5725.00	62.4 PK	68.2	-5.8	2.23 H	216	57.8	4.6
7	11220.00	59.3 PK	74.0	-14.7	1.64 H	301	42.2	17.1
8	11220.00	46.8 AV	54.0	-7.2	1.64 H	301	29.7	17.1
9	#16830.00	67.3 PK	68.2	-0.9	1.30 H	343	45.4	21.9
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	5460.00	60.7 PK	74.0	-13.3	1.72 V	331	56.3	4.4
2	5460.00	47.0 AV	54.0	-7.0	1.72 V	331	42.6	4.4
3	#5470.00	61.9 PK	68.2	-6.3	1.88 V	335	57.4	4.5
4	*5610.00	112.0 PK			1.78 V	334	73.1	38.9
5	*5610.00	102.0 AV			1.78 V	334	63.1	38.9
6	#5725.00	66.6 PK	68.2	-1.6	1.76 V	338	62.0	4.6
7	11220.00	59.7 PK	74.0	-14.3	2.16 V	35	42.6	17.1
8	11220.00	47.4 AV	54.0	-6.6	2.16 V	35	30.3	17.1
9	#16830.00	66.3 PK	68.2	-1.9	1.17 V	29	44.4	21.9

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5643.20	55.9 PK	68.2	-12.3	2.28 H	218	51.3	4.6
2	#5650.00	57.2 PK	68.2	-11.0	2.34 H	223	52.6	4.6
3	*5775.00	99.7 PK			2.28 H	218	60.6	39.1
4	*5775.00	90.2 AV			2.28 H	218	51.1	39.1
5	#5925.00	57.5 PK	68.2	-10.7	2.23 H	214	52.2	5.3
6	#5950.40	56.0 PK	68.2	-12.2	2.28 H	218	50.7	5.3
7	11550.00	64.9 PK	74.0	-9.1	1.58 H	346	48.2	16.7
8	11550.00	51.0 AV	54.0	-3.0	1.58 H	346	34.3	16.7
9	#17325.00	67.3 PK	68.2	-0.9	2.40 H	344	43.6	23.7
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	#5644.80	64.6 PK	68.2	-3.6	1.69 V	333	60.0	4.6
2	#5650.00	65.9 PK	68.2	-2.3	1.74 V	338	61.3	4.6
3	*5775.00	113.8 PK			1.69 V	333	74.7	39.1
4	*5775.00	104.3 AV			1.69 V	333	65.2	39.1
5	#5925.00	62.0 PK	68.2	-6.2	1.79 V	343	56.7	5.3
6	#5928.80	60.3 PK	68.2	-7.9	1.69 V	333	55.0	5.3
7	11550.00	64.0 PK	74.0	-10.0	1.16 V	14	47.3	16.7
8	11550.00	50.3 AV	54.0	-3.7	1.16 V	14	33.6	16.7
9	#17325.00	66.4 PK	68.2	-1.8	1.32 V	42	42.7	23.7

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

Test Mode B

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	70.6 PK	74.0	-3.4	1.55 H	15	66.1	4.5
2	5150.00	52.5 AV	54.0	-1.5	1.55 H	15	48.0	4.5
3	*5180.00	118.5 PK			1.68 H	13	79.6	38.9
4	*5180.00	107.9 AV			1.68 H	13	69.0	38.9
5	#10360.00	58.2 PK	68.2	-10.0	1.73 H	139	41.8	16.4
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	5150.00	70.8 PK	74.0	-3.2	1.74 V	3	66.3	4.5
2	5150.00	52.9 AV	54.0	-1.1	1.74 V	3	48.4	4.5
3	*5180.00	119.4 PK			1.82 V	6	80.5	38.9
4	*5180.00	108.3 AV			1.82 V	6	69.4	38.9
5	#10360.00	60.7 PK	68.2	-7.5	2.40 V	206	44.3	16.4

Remarks:

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

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5200.00	117.9 PK			1.67 H	15	79.3	38.6
2	*5200.00	107.4 AV			1.67 H	15	68.8	38.6
3	#10400.00	59.1 PK	68.2	-9.1	1.79 H	148	42.3	16.8
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	*5200.00	118.8 PK			1.86 V	9	80.2	38.6
2	*5200.00	108.2 AV			1.86 V	9	69.6	38.6
3	#10400.00	61.6 PK	68.2	-6.6	2.46 V	218	44.8	16.8

Remarks:

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

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5240.00	117.2 PK			1.75 H	14	78.6	38.6
2	*5240.00	106.8 AV			1.75 H	14	68.2	38.6
3	5350.00	55.9 PK	74.0	-18.1	1.81 H	17	51.6	4.3
4	5350.00	45.0 AV	54.0	-9.0	1.81 H	17	40.7	4.3
5	#10480.00	58.9 PK	68.2	-9.3	1.64 H	152	42.2	16.7
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	*5240.00	118.0 PK			1.78 V	7	79.4	38.6
2	*5240.00	107.2 AV			1.78 V	7	68.6	38.6
3	5350.00	56.6 PK	74.0	-17.4	1.83 V	16	52.3	4.3
4	5350.00	46.2 AV	54.0	-7.8	1.83 V	16	41.9	4.3
5	#10480.00	61.4 PK	68.2	-6.8	2.37 V	204	44.7	16.7

Remarks:

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

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	54.8 PK	74.0	-19.2	1.75 H	20	50.3	4.5
2	5150.00	44.2 AV	54.0	-9.8	1.75 H	20	39.7	4.5
3	*5260.00	118.5 PK			1.73 H	16	79.9	38.6
4	*5260.00	108.0 AV			1.73 H	16	69.4	38.6
5	#10520.00	60.5 PK	68.2	-7.7	2.39 H	216	43.8	16.7
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	5150.00	55.3 PK	74.0	-18.7	1.93 V	18	50.8	4.5
2	5150.00	44.9 AV	54.0	-9.1	1.93 V	18	40.4	4.5
3	*5260.00	120.1 PK			1.87 V	11	81.5	38.6
4	*5260.00	108.9 AV			1.87 V	11	70.3	38.6
5	#10520.00	62.0 PK	68.2	-6.2	2.37 V	229	45.3	16.7

Remarks:

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

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5300.00	118.7 PK			1.72 H	16	80.2	38.5
2	*5300.00	108.1 AV			1.72 H	16	69.6	38.5
3	10600.00	60.0 PK	74.0	-14.0	1.71 H	144	43.6	16.4
4	10600.00	46.6 AV	54.0	-7.4	1.71 H	144	30.2	16.4
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	*5300.00	110.3 PK			1.87 V	5	71.8	38.5
2	*5300.00	109.1 AV			1.87 V	5	70.6	38.5
3	10600.00	62.5 PK	74.0	-11.5	2.45 V	201	46.1	16.4
4	10600.00	48.9 AV	54.0	-5.1	2.45 V	201	32.5	16.4

Remarks:

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

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5320.00	116.0 PK			1.73 H	14	77.4	38.6
2	*5320.00	105.5 AV			1.73 H	14	66.9	38.6
3	5350.00	66.2 PK	74.0	-7.8	1.77 H	18	61.9	4.3
4	5350.00	52.1 AV	54.0	-1.9	1.77 H	18	47.8	4.3
5	10640.00	59.3 PK	74.0	-14.7	1.83 H	136	42.7	16.6
6	10640.00	46.4 AV	54.0	-7.6	1.83 H	136	29.8	16.6
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	*5320.00	117.8 PK			1.79 V	10	79.2	38.6
2	*5320.00	106.4 AV			1.79 V	10	67.8	38.6
3	5350.00	68.7 PK	74.0	-5.3	1.73 V	8	64.4	4.3
4	5350.00	53.1 AV	54.0	-0.9	1.73 V	8	48.8	4.3
5	10640.00	60.4 PK	74.0	-13.6	2.38 V	214	43.8	16.6
6	10640.00	47.3 AV	54.0	-6.7	2.38 V	214	30.7	16.6

Remarks:

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

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	58.8 PK	74.0	-15.2	1.77 H	20	54.6	4.2
2	5460.00	47.0 AV	54.0	-7.0	1.77 H	20	42.8	4.2
3	#5470.00	64.6 PK	68.2	-3.6	1.73 H	21	60.3	4.3
4	*5500.00	115.3 PK			1.72 H	15	76.6	38.7
5	*5500.00	105.0 AV			1.72 H	15	66.3	38.7
6	11000.00	60.6 PK	74.0	-13.4	1.73 H	151	42.2	18.4
7	11000.00	47.0 AV	54.0	-7.0	1.73 H	151	28.6	18.4
8	#16500.00	63.3 PK	68.2	-4.9	3.18 H	281	46.2	17.1
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	5460.00	61.0 PK	74.0	-13.0	1.83 V	11	56.8	4.2
2	5460.00	47.5 AV	54.0	-6.5	1.83 V	11	43.3	4.2
3	#5470.00	66.8 PK	68.2	-1.4	1.79 V	8	62.5	4.3
4	*5500.00	116.4 PK			2.04 V	7	77.7	38.7
5	*5500.00	106.0 AV			2.04 V	7	67.3	38.7
6	11000.00	62.6 PK	74.0	-11.4	2.63 V	176	44.2	18.4
7	11000.00	49.3 AV	54.0	-4.7	2.63 V	176	30.9	18.4
8	#16500.00	66.0 PK	68.2	-2.2	2.73 V	219	48.9	17.1

Remarks:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5580.00	114.2 PK			1.69 H	7	75.6	38.6
2	*5580.00	104.3 AV			1.69 H	7	65.7	38.6
3	11160.00	62.0 PK	74.0	-12.0	1.79 H	138	44.8	17.2
4	11160.00	49.9 AV	54.0	-4.1	1.79 H	138	32.7	17.2
5	#16740.00	64.5 PK	68.2	-3.7	3.21 H	276	43.8	20.7
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	*5580.00	115.4 PK			1.88 V	12	76.8	38.6
2	*5580.00	105.5 AV			1.88 V	12	66.9	38.6
3	11160.00	64.4 PK	74.0	-9.6	2.68 V	162	47.2	17.2
4	11160.00	51.8 AV	54.0	-2.2	2.68 V	162	34.6	17.2
5	#16740.00	67.0 PK	68.2	-1.2	2.83 V	221	46.3	20.7

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5700.00	114.0 PK			1.73 H	8	75.2	38.8
2	*5700.00	103.4 AV			1.73 H	8	64.6	38.8
3	#5725.00	63.6 PK	68.2	-4.6	1.64 H	18	59.2	4.4
4	11400.00	60.8 PK	74.0	-13.2	1.61 H	138	43.3	17.5
5	11400.00	49.7 AV	54.0	-4.3	1.61 H	138	32.2	17.5
6	#17100.00	64.2 PK	68.2	-4.0	3.32 H	302	42.6	21.6
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	*5700.00	115.1 PK			1.88 V	10	76.3	38.8
2	*5700.00	104.6 AV			1.88 V	10	65.8	38.8
3	#5725.00	65.6 PK	68.2	-2.6	1.81 V	19	61.2	4.4
4	11400.00	63.4 PK	74.0	-10.6	2.56 V	167	45.9	17.5
5	11400.00	51.7 AV	54.0	-2.3	2.56 V	167	34.2	17.5
6	#17100.00	67.0 PK	68.2	-1.2	2.86 V	227	45.4	21.6

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5624.00	56.3 PK	68.2	-11.9	1.79 H	9	52.0	4.3
2	*5745.00	114.0 PK			1.77 H	9	75.1	38.9
3	*5745.00	103.9 AV			1.77 H	9	65.0	38.9
4	#5994.40	56.3 PK	68.2	-11.9	1.79 H	9	51.3	5.0
5	11490.00	60.1 PK	74.0	-13.9	1.92 H	144	43.2	16.9
6	11490.00	47.5 AV	54.0	-6.5	1.92 H	144	30.6	16.9
7	#17235.00	66.5 PK	68.2	-1.7	3.42 H	271	44.6	21.9
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	#5604.80	56.1 PK	68.2	-12.1	1.80 V	7	51.9	4.2
2	*5745.00	115.6 PK			1.80 V	7	76.7	38.9
3	*5745.00	105.1 AV			1.80 V	7	66.2	38.9
4	#5927.20	55.0 PK	68.2	-13.2	1.80 V	7	50.0	5.0
5	11490.00	62.3 PK	74.0	-11.7	2.93 V	194	45.4	16.9
6	11490.00	49.8 AV	54.0	-4.2	2.93 V	194	32.9	16.9
7	#17235.00	67.3 PK	68.2	-0.9	3.06 V	176	45.4	21.9

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5632.00	55.7 PK	68.2	-12.5	1.76 H	19	51.4	4.3
2	*5785.00	114.7 PK			1.76 H	19	75.7	39.0
3	*5785.00	104.6 AV			1.76 H	19	65.6	39.0
4	#5932.00	56.9 PK	68.2	-11.3	1.76 H	19	51.9	5.0
5	11570.00	60.5 PK	74.0	-13.5	1.96 H	147	43.8	16.7
6	11570.00	47.8 AV	54.0	-6.2	1.96 H	147	31.1	16.7
7	#17355.00	65.8 PK	68.2	-2.4	3.45 H	266	44.2	21.6
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	#5646.40	54.8 PK	68.2	-13.4	1.80 V	5	50.5	4.3
2	*5785.00	116.1 PK			1.80 V	5	77.1	39.0
3	*5785.00	105.9 AV			1.80 V	5	66.9	39.0
4	#5950.40	56.8 PK	68.2	-11.4	1.80 V	5	51.8	5.0
5	11570.00	62.5 PK	74.0	-11.5	2.86 V	195	45.8	16.7
6	11570.00	50.3 AV	54.0	-3.7	2.86 V	195	33.6	16.7
7	#17355.00	66.9 PK	68.2	-1.3	3.08 V	176	45.3	21.6

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5624.00	55.4 PK	68.2	-12.8	1.71 H	22	51.1	4.3
2	*5825.00	113.3 PK			1.71 H	22	74.2	39.1
3	*5825.00	103.1 AV			1.71 H	22	64.0	39.1
4	#5984.00	56.5 PK	68.2	-11.7	1.71 H	22	51.5	5.0
5	11650.00	59.8 PK	74.0	-14.2	1.91 H	135	43.3	16.5
6	11650.00	47.1 AV	54.0	-6.9	1.91 H	135	30.6	16.5
7	#17474.00	65.6 PK	68.2	-2.6	3.37 H	264	43.3	22.3
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	#5616.00	54.8 PK	68.2	-13.4	1.75 V	2	50.5	4.3
2	*5825.00	115.2 PK			1.75 V	2	76.1	39.1
3	*5825.00	104.7 AV			1.75 V	2	65.6	39.1
4	#5961.60	56.8 PK	68.2	-11.4	1.75 V	2	51.8	5.0
5	11650.00	62.9 PK	74.0	-11.1	2.94 V	206	46.4	16.5
6	11650.00	49.8 AV	54.0	-4.2	2.94 V	206	33.3	16.5
7	#17475.00	67.1 PK	68.2	-1.1	3.03 V	161	44.8	22.3

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

802.11ac (VHT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	68.2 PK	74.0	-5.8	1.77 H	19	63.7	4.5
2	5150.00	52.1 AV	54.0	-1.9	1.77 H	19	47.6	4.5
3	*5180.00	114.8 PK			1.72 H	15	75.9	38.9
4	*5180.00	104.3 AV			1.72 H	15	65.4	38.9
5	#10360.00	57.7 PK	68.2	-10.5	1.79 H	142	41.3	16.4
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	5150.00	69.0 PK	74.0	-5.0	1.63 V	10	64.5	4.5
2	5150.00	53.1 AV	54.0	-0.9	1.63 V	10	48.6	4.5
3	*5180.00	115.7 PK			1.82 V	8	76.8	38.9
4	*5180.00	105.1 AV			1.82 V	8	66.2	38.9
5	#10360.00	60.1 PK	68.2	-8.1	2.36 V	207	43.7	16.4

Remarks:

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

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5200.00	117.6 PK			1.79 H	12	79.0	38.6
2	*5200.00	107.0 AV			1.79 H	12	68.4	38.6
3	#10400.00	59.1 PK	68.2	-9.1	1.83 H	151	42.3	16.8
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	*5200.00	118.2 PK			1.81 V	7	79.6	38.6
2	*5200.00	107.7 AV			1.81 V	7	69.1	38.6
3	#10400.00	61.5 PK	68.2	-6.7	2.45 V	212	44.7	16.8

Remarks:

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

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5240.00	116.8 PK			1.64 H	15	78.2	38.6
2	*5240.00	106.2 AV			1.64 H	15	67.6	38.6
3	5350.00	55.7 PK	74.0	-18.3	1.72 H	19	51.4	4.3
4	5350.00	45.5 AV	54.0	-8.5	1.72 H	19	41.2	4.3
5	#10480.00	59.3 PK	68.2	-8.9	1.69 H	138	42.6	16.7
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	*5240.00	117.4 PK			1.80 V	6	78.8	38.6
2	*5240.00	107.0 AV			1.80 V	6	68.4	38.6
3	5350.00	57.0 PK	74.0	-17.0	1.83 V	11	52.7	4.3
4	5350.00	46.0 AV	54.0	-8.0	1.83 V	11	41.7	4.3
5	#10480.00	61.6 PK	68.2	-6.6	2.47 V	223	44.9	16.7

Remarks:

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

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	54.9 PK	74.0	-19.1	1.76 H	23	50.4	4.5
2	5150.00	44.1 AV	54.0	-9.9	1.76 H	23	39.6	4.5
3	*5260.00	109.4 PK			1.72 H	19	70.8	38.6
4	*5260.00	98.9 AV			1.72 H	19	60.3	38.6
5	#10520.00	59.2 PK	68.2	-9.0	1.87 H	150	42.5	16.7
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	5150.00	55.2 PK	74.0	-18.8	1.88 V	11	50.7	4.5
2	5150.00	45.0 AV	54.0	-9.0	1.88 V	11	40.5	4.5
3	*5260.00	119.1 PK			1.83 V	9	80.5	38.6
4	*5260.00	108.7 AV			1.83 V	9	70.1	38.6
5	#10520.00	61.9 PK	68.2	-6.3	2.43 V	215	45.2	16.7

Remarks:

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

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5300.00	118.2 PK			1.70 H	17	79.7	38.5
2	*5300.00	107.8 AV			1.70 H	17	69.3	38.5
3	10600.00	59.8 PK	74.0	-14.2	1.89 H	137	43.4	16.4
4	10600.00	46.6 AV	54.0	-7.4	1.89 H	137	30.2	16.4
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	*5300.00	119.1 PK			1.82 V	11	80.6	38.5
2	*5300.00	108.7 AV			1.82 V	11	70.2	38.5
3	10600.00	62.2 PK	74.0	-11.8	2.48 V	211	45.8	16.4
4	10600.00	48.8 AV	54.0	-5.2	2.48 V	211	32.4	16.4

Remarks:

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

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5320.00	115.4 PK			1.73 H	17	76.8	38.6
2	*5320.00	105.1 AV			1.73 H	17	66.5	38.6
3	5350.00	65.8 PK	74.0	-8.2	1.79 H	21	61.5	4.3
4	5350.00	51.9 AV	54.0	-2.1	1.79 H	21	47.6	4.3
5	10640.00	59.0 PK	74.0	-15.0	1.87 H	149	42.4	16.6
6	10640.00	46.1 AV	54.0	-7.9	1.87 H	149	29.5	16.6
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	*5320.00	116.4 PK			1.76 V	8	77.8	38.6
2	*5320.00	106.0 AV			1.76 V	8	67.4	38.6
3	5350.00	67.9 PK	74.0	-6.1	1.83 V	13	63.6	4.3
4	5350.00	53.0 AV	54.0	-1.0	1.83 V	13	48.7	4.3
5	10640.00	59.9 PK	74.0	-14.1	2.33 V	205	43.3	16.6
6	10640.00	46.9 AV	54.0	-7.1	2.33 V	205	30.3	16.6

Remarks:

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

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	57.6 PK	74.0	-16.4	1.70 H	21	53.4	4.2
2	5460.00	45.5 AV	54.0	-8.5	1.70 H	21	41.3	4.2
3	#5470.00	65.5 PK	68.2	-2.7	1.68 H	19	61.2	4.3
4	*5500.00	115.5 PK			1.69 H	15	76.8	38.7
5	*5500.00	105.0 AV			1.69 H	15	66.3	38.7
6	11000.00	61.0 PK	74.0	-13.0	1.63 H	133	42.6	18.4
7	11000.00	47.2 AV	54.0	-6.8	1.63 H	133	28.8	18.4
8	#16500.00	64.3 PK	68.2	-3.9	3.28 H	281	47.2	17.1
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	5460.00	59.1 PK	74.0	-14.9	1.81 V	19	54.9	4.2
2	5460.00	46.7 AV	54.0	-7.3	1.81 V	19	42.5	4.2
3	#5470.00	66.8 PK	68.2	-1.4	1.77 V	14	62.5	4.3
4	*5500.00	117.1 PK			1.87 V	10	78.4	38.7
5	*5500.00	106.4 AV			1.87 V	10	67.7	38.7
6	11000.00	62.9 PK	74.0	-11.1	2.60 V	166	44.5	18.4
7	11000.00	49.7 AV	54.0	-4.3	2.60 V	166	31.3	18.4
8	#16500.00	66.6 PK	68.2	-1.6	2.83 V	234	49.5	17.1

Remarks:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5580.00	114.9 PK			1.71 H	11	76.3	38.6
2	*5580.00	104.1 AV			1.71 H	11	65.5	38.6
3	11160.00	59.4 PK	74.0	-14.6	1.69 H	142	42.2	17.2
4	11160.00	46.4 AV	54.0	-7.6	1.69 H	142	29.2	17.2
5	#16740.00	64.1 PK	68.2	-4.1	3.38 H	287	43.4	20.7
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	*5580.00	116.4 PK			1.86 V	10	77.8	38.6
2	*5580.00	105.5 AV			1.86 V	10	66.9	38.6
3	11160.00	61.5 PK	74.0	-12.5	2.59 V	164	44.3	17.2
4	11160.00	48.4 AV	54.0	-5.6	2.59 V	164	31.2	17.2
5	#16740.00	66.9 PK	68.2	-1.3	2.79 V	224	46.2	20.7

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5700.00	113.6 PK			1.76 H	8	74.8	38.8
2	*5700.00	103.0 AV			1.76 H	8	64.2	38.8
3	#5725.00	63.9 PK	68.2	-4.3	1.64 H	3	59.5	4.4
4	11400.00	62.2 PK	74.0	-11.8	1.77 H	146	44.7	17.5
5	11400.00	50.1 AV	54.0	-3.9	1.77 H	146	32.6	17.5
6	#17100.00	65.8 PK	68.2	-2.4	3.26 H	284	44.2	21.6
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	*5700.00	114.8 PK			1.86 V	11	76.0	38.8
2	*5700.00	104.4 AV			1.86 V	11	65.6	38.8
3	#5725.00	65.1 PK	68.2	-3.1	1.79 V	15	60.7	4.4
4	11400.00	63.9 PK	74.0	-10.1	2.83 V	172	46.4	17.5
5	11400.00	52.0 AV	54.0	-2.0	2.83 V	172	34.5	17.5
6	#17100.00	67.0 PK	68.2	-1.2	2.79 V	223	45.4	21.6

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5628.80	54.2 PK	68.2	-14.0	1.72 H	19	49.9	4.3
2	*5745.00	114.6 PK			1.72 H	19	75.7	38.9
3	*5745.00	104.4 AV			1.72 H	19	65.5	38.9
4	#5950.40	56.6 PK	68.2	-11.6	1.72 H	19	51.6	5.0
5	11490.00	59.5 PK	74.0	-14.5	1.85 H	133	42.6	16.9
6	11490.00	46.9 AV	54.0	-7.1	1.85 H	133	30.0	16.9
7	#17235.00	66.2 PK	68.2	-2.0	3.36 H	271	44.3	21.9
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	#5620.00	55.2 PK	68.2	-13.0	1.76 V	6	50.9	4.3
2	*5745.00	116.2 PK			1.76 V	6	77.3	38.9
3	*5745.00	106.0 AV			1.76 V	6	67.1	38.9
4	#5946.40	55.7 PK	68.2	-12.5	1.76 V	6	50.7	5.0
5	11490.00	62.0 PK	74.0	-12.0	2.84 V	193	45.1	16.9
6	11490.00	49.4 AV	54.0	-4.6	2.84 V	193	32.5	16.9
7	#17235.00	67.1 PK	68.2	-1.1	2.98 V	173	45.2	21.9

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5626.40	56.0 PK	68.2	-12.2	1.76 H	19	51.7	4.3
2	*5785.00	115.7 PK			1.76 H	19	76.7	39.0
3	*5785.00	105.3 AV			1.76 H	19	66.3	39.0
4	#6000.00	56.9 PK	68.2	-11.3	1.76 H	19	51.9	5.0
5	11570.00	60.1 PK	74.0	-13.9	2.87 H	212	43.4	16.7
6	11570.00	47.3 AV	54.0	-6.7	2.87 H	212	30.6	16.7
7	#17355.00	65.5 PK	68.2	-2.7	2.93 H	165	43.9	21.6
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	#5637.60	55.6 PK	68.2	-12.6	1.81 V	8	51.3	4.3
2	*5785.00	116.9 PK			1.81 V	8	77.9	39.0
3	*5785.00	106.6 AV			1.81 V	8	67.6	39.0
4	#5976.80	56.5 PK	68.2	-11.7	1.81 V	8	51.5	5.0
5	11570.00	62.5 PK	74.0	-11.5	2.82 V	206	45.8	16.7
6	11570.00	49.9 AV	54.0	-4.1	2.82 V	206	33.2	16.7
7	#17355.00	67.1 PK	68.2	-1.1	3.01 V	173	45.5	21.6

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5642.40	55.9 PK	68.2	-12.3	1.79 H	14	51.6	4.3
2	*5825.00	113.8 PK			1.79 H	14	74.7	39.1
3	*5825.00	103.4 AV			1.79 H	14	64.3	39.1
4	#5950.40	57.2 PK	68.2	-11.0	1.79 H	14	52.2	5.0
5	11650.00	59.2 PK	74.0	-14.8	1.96 H	151	42.7	16.5
6	11650.00	46.2 AV	54.0	-7.8	1.96 H	151	29.7	16.5
7	#17474.00	65.6 PK	68.2	-2.6	3.32 H	279	43.3	22.3
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	#5602.40	55.1 PK	68.2	-13.1	1.86 V	6	50.9	4.2
2	*5825.00	115.4 PK			1.86 V	6	76.3	39.1
3	*5825.00	105.0 AV			1.86 V	6	65.9	39.1
4	#5990.40	56.5 PK	68.2	-11.7	1.86 V	6	51.5	5.0
5	11650.00	61.8 PK	74.0	-12.2	2.88 V	190	45.3	16.5
6	11650.00	49.1 AV	54.0	-4.9	2.88 V	190	32.6	16.5
7	#17475.00	66.9 PK	68.2	-1.3	3.02 V	171	44.6	22.3

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

802.11ac (VHT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	66.3 PK	74.0	-7.7	1.73 H	21	61.8	4.5
2	5150.00	51.9 AV	54.0	-2.1	1.73 H	21	47.4	4.5
3	*5190.00	109.6 PK			1.77 H	16	70.9	38.7
4	*5190.00	99.2 AV			1.77 H	16	60.5	38.7
5	#10380.00	57.9 PK	68.2	-10.3	1.74 H	148	41.3	16.6
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	5150.00	66.7 PK	74.0	-7.3	1.81 V	5	62.2	4.5
2	5150.00	52.7 AV	54.0	-1.3	1.81 V	5	48.2	4.5
3	*5190.00	110.0 PK			1.92 V	8	71.3	38.7
4	*5190.00	99.9 AV			1.92 V	8	61.2	38.7
5	#10380.00	59.0 PK	68.2	-9.2	2.36 V	205	42.4	16.6

Remarks:

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

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5230.00	113.7 PK			1.72 H	11	75.1	38.6
2	*5230.00	104.2 AV			1.72 H	11	65.6	38.6
3	5350.00	56.1 PK	74.0	-17.9	1.76 H	17	51.8	4.3
4	5350.00	46.0 AV	54.0	-8.0	1.76 H	17	41.7	4.3
5	#10460.00	58.1 PK	68.2	-10.1	1.79 H	143	41.4	16.7
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	*5230.00	114.9 PK			1.85 V	9	76.3	38.6
2	*5230.00	105.0 AV			1.85 V	9	66.4	38.6
3	5350.00	57.5 PK	74.0	-16.5	1.92 V	3	53.2	4.3
4	5350.00	46.9 AV	54.0	-7.1	1.92 V	3	42.6	4.3
5	#10460.00	59.5 PK	68.2	-8.7	2.32 V	211	42.8	16.7

Remarks:

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

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	55.7 PK	74.0	-18.3	1.76 H	18	51.2	4.5
2	5150.00	44.9 AV	54.0	-9.1	1.76 H	18	40.4	4.5
3	*5270.00	116.0 PK			1.64 H	14	77.4	38.6
4	*5270.00	106.4 AV			1.64 H	14	67.8	38.6
5	#10540.00	57.4 PK	68.2	-10.8	1.84 H	147	40.8	16.6
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	5150.00	57.7 PK	74.0	-16.3	1.78 V	16	53.2	4.5
2	5150.00	45.9 AV	54.0	-8.1	1.78 V	16	41.4	4.5
3	*5270.00	116.8 PK			1.81 V	10	78.2	38.6
4	*5270.00	107.3 AV			1.81 V	10	68.7	38.6
5	#10540.00	59.9 PK	68.2	-8.3	2.38 V	201	43.3	16.6

Remarks:

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

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5310.00	109.3 PK			1.66 H	17	70.7	38.6
2	*5310.00	99.4 AV			1.66 H	17	60.8	38.6
3	5350.00	66.0 PK	74.0	-8.0	1.73 H	23	61.7	4.3
4	5350.00	52.2 AV	54.0	-1.8	1.73 H	23	47.9	4.3
5	10620.00	57.2 PK	74.0	-16.8	1.76 H	153	40.7	16.5
6	10620.00	43.8 AV	54.0	-10.2	1.76 H	153	27.3	16.5
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	*5310.00	110.1 PK			1.86 V	6	71.5	38.6
2	*5310.00	100.2 AV			1.86 V	6	61.6	38.6
3	5350.00	66.9 PK	74.0	-7.1	1.81 V	9	62.6	4.3
4	5350.00	52.8 AV	54.0	-1.2	1.81 V	9	48.5	4.3
5	10620.00	58.3 PK	74.0	-15.7	2.37 V	205	41.8	16.5
6	10620.00	44.8 AV	54.0	-9.2	2.37 V	205	28.3	16.5

Remarks:

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

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	61.4 PK	74.0	-12.6	1.62 H	20	57.2	4.2
2	5460.00	47.7 AV	54.0	-6.3	1.62 H	20	43.5	4.2
3	#5470.00	65.6 PK	68.2	-2.6	1.59 H	22	61.3	4.3
4	*5510.00	111.1 PK			1.68 H	12	72.5	38.6
5	*5510.00	100.9 AV			1.68 H	12	62.3	38.6
6	11020.00	59.9 PK	74.0	-14.1	1.83 H	155	41.8	18.1
7	11020.00	46.5 AV	54.0	-7.5	1.83 H	155	28.4	18.1
8	#16530.00	62.0 PK	68.2	-6.2	3.26 H	284	44.3	17.7
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	5460.00	63.0 PK	74.0	-11.0	1.86 V	14	58.8	4.2
2	5460.00	49.1 AV	54.0	-4.9	1.86 V	14	44.9	4.2
3	#5470.00	66.9 PK	68.2	-1.3	1.84 V	12	62.6	4.3
4	*5510.00	111.4 PK			1.78 V	9	72.8	38.6
5	*5510.00	101.9 AV			1.78 V	9	63.3	38.6
6	11020.00	62.3 PK	74.0	-11.7	2.73 V	175	44.2	18.1
7	11020.00	49.3 AV	54.0	-4.7	2.73 V	175	31.2	18.1
8	#16530.00	64.5 PK	68.2	-3.7	2.71 V	218	46.8	17.7

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5550.00	112.4 PK			1.67 H	8	73.8	38.6
2	*5550.00	102.6 AV			1.67 H	8	64.0	38.6
3	11100.00	59.7 PK	74.0	-14.3	1.76 H	131	42.4	17.3
4	11100.00	46.6 AV	54.0	-7.4	1.76 H	131	29.3	17.3
5	#16650.00	64.1 PK	68.2	-4.1	3.29 H	303	44.4	19.7
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	*5550.00	113.4 PK			1.80 V	11	74.8	38.6
2	*5550.00	103.7 AV			1.80 V	11	65.1	38.6
3	11100.00	61.5 PK	74.0	-12.5	2.57 V	162	44.2	17.3
4	11100.00	48.2 AV	54.0	-5.8	2.57 V	162	30.9	17.3
5	#16650.00	66.8 PK	68.2	-1.4	2.75 V	221	47.1	19.7

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5670.00	110.3 PK			1.70 H	15	71.6	38.7
2	*5670.00	100.6 AV			1.70 H	15	61.9	38.7
3	#5725.00	60.6 PK	68.2	-7.6	1.63 H	6	56.2	4.4
4	11340.00	59.5 PK	74.0	-14.5	1.67 H	135	41.8	17.7
5	11340.00	46.5 AV	54.0	-7.5	1.67 H	135	28.8	17.7
6	#17010.00	65.4 PK	68.2	-2.8	3.41 H	285	43.4	22.0
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	*5670.00	111.8 PK			1.80 V	13	73.1	38.7
2	*5670.00	102.2 AV			1.80 V	13	63.5	38.7
3	#5725.00	60.6 PK	68.2	-7.6	1.73 V	18	56.2	4.4
4	11340.00	61.3 PK	74.0	-12.7	2.73 V	218	43.6	17.7
5	11340.00	48.0 AV	54.0	-6.0	2.73 V	218	30.3	17.7
6	#17010.00	66.9 PK	68.2	-1.3	2.93 V	172	44.9	22.0

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5614.40	55.9 PK	68.2	-12.3	1.77 H	18	51.6	4.3
2	*5755.00	114.4 PK			1.77 H	18	75.5	38.9
3	*5755.00	104.2 AV			1.77 H	18	65.3	38.9
4	#5939.20	57.2 PK	68.2	-11.0	1.77 H	18	52.2	5.0
5	11510.00	59.6 PK	74.0	-14.4	2.03 H	156	42.7	16.9
6	11510.00	47.4 AV	54.0	-6.6	2.03 H	156	30.5	16.9
7	#17265.00	65.6 PK	68.2	-2.6	3.39 H	274	43.6	22.0
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	#5637.60	55.8 PK	68.2	-12.4	1.86 V	6	51.5	4.3
2	*5755.00	115.7 PK			1.86 V	6	76.8	38.9
3	*5755.00	105.4 AV			1.86 V	6	66.5	38.9
4	#5952.00	56.5 PK	68.2	-11.7	1.86 V	6	51.5	5.0
5	11510.00	62.3 PK	74.0	-11.7	2.97 V	205	45.4	16.9
6	11510.00	50.1 AV	54.0	-3.9	2.97 V	205	33.2	16.9
7	#17265.00	67.0 PK	68.2	-1.2	3.08 V	170	45.0	22.0

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5648.80	56.1 PK	68.2	-12.1	1.74 H	15	51.8	4.3
2	*5795.00	113.1 PK			1.74 H	15	74.1	39.0
3	*5795.00	103.0 AV			1.74 H	15	64.0	39.0
4	#5932.80	56.6 PK	68.2	-11.6	1.74 H	15	51.6	5.0
5	11590.00	59.8 PK	74.0	-14.2	1.98 H	145	43.3	16.5
6	11590.00	47.2 AV	54.0	-6.8	1.98 H	145	30.7	16.5
7	#17385.00	65.6 PK	68.2	-2.6	3.31 H	277	44.3	21.3
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	#5641.60	56.4 PK	68.2	-11.8	1.78 V	6	52.1	4.3
2	*5795.00	114.4 PK			1.78 V	6	75.4	39.0
3	*5795.00	104.4 AV			1.78 V	6	65.4	39.0
4	#5939.20	57.4 PK	68.2	-10.8	1.78 V	6	52.4	5.0
5	11590.00	62.7 PK	74.0	-11.3	3.01 V	204	46.2	16.5
6	11590.00	49.7 AV	54.0	-4.3	3.01 V	204	33.2	16.5
7	#17385.00	66.8 PK	68.2	-1.4	3.11 V	165	45.5	21.3

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

802.11ac (VHT80)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	65.3 PK	74.0	-8.7	1.72 H	21	60.8	4.5
2	5150.00	52.1 AV	54.0	-1.9	1.72 H	21	47.6	4.5
3	*5210.00	104.6 PK			1.67 H	18	66.0	38.6
4	*5210.00	94.0 AV			1.67 H	18	55.4	38.6
5	5350.00	56.6 PK	74.0	-17.4	1.77 H	19	52.3	4.3
6	5350.00	45.7 AV	54.0	-8.3	1.77 H	19	41.4	4.3
7	#10420.00	57.3 PK	68.2	-10.9	1.72 H	153	40.6	16.7
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	5150.00	66.7 PK	74.0	-7.3	1.85 V	6	62.2	4.5
2	5150.00	52.9 AV	54.0	-1.1	1.85 V	6	48.4	4.5
3	*5210.00	104.8 PK			1.88 V	10	66.2	38.6
4	*5210.00	94.2 AV			1.88 V	10	55.6	38.6
5	5350.00	57.7 PK	74.0	-16.3	1.82 V	8	53.4	4.3
6	5350.00	46.9 AV	54.0	-7.1	1.82 V	8	42.6	4.3
7	#10420.00	58.0 PK	68.2	-10.2	2.42 V	217	41.3	16.7

Remarks:

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

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5290.00	104.4 PK			1.68 H	16	65.8	38.6
2	*5290.00	94.1 AV			1.68 H	16	55.5	38.6
3	5350.00	64.9 PK	74.0	-9.1	1.62 H	23	60.6	4.3
4	5350.00	52.1 AV	54.0	-1.9	1.62 H	23	47.8	4.3
5	#10580.00	57.0 PK	68.2	-11.2	1.82 H	159	40.5	16.5
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	*5290.00	105.2 PK			1.75 V	8	66.6	38.6
2	*5290.00	94.9 AV			1.75 V	8	56.3	38.6
3	5350.00	65.6 PK	74.0	-8.4	1.86 V	9	61.3	4.3
4	5350.00	53.0 AV	54.0	-1.0	1.86 V	9	48.7	4.3
5	#10580.00	57.8 PK	68.2	-10.4	2.53 V	217	41.3	16.5

Remarks:

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

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	63.4 PK	74.0	-10.6	1.79 H	16	59.2	4.2
2	5460.00	50.5 AV	54.0	-3.5	1.79 H	16	46.3	4.2
3	#5470.00	64.5 PK	68.2	-3.7	1.79 H	19	60.2	4.3
4	*5530.00	106.9 PK			1.71 H	10	68.3	38.6
5	*5530.00	96.8 AV			1.71 H	10	58.2	38.6
6	11060.00	59.1 PK	74.0	-14.9	1.72 H	139	41.3	17.8
7	11060.00	46.1 AV	54.0	-7.9	1.72 H	139	28.3	17.8
8	#16590.00	63.0 PK	68.2	-5.2	3.28 H	287	44.2	18.8
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	5460.00	65.1 PK	74.0	-8.9	1.85 V	7	60.9	4.2
2	5460.00	52.1 AV	54.0	-1.9	1.85 V	7	47.9	4.2
3	#5470.00	66.9 PK	68.2	-1.3	1.83 V	9	62.6	4.3
4	*5530.00	108.1 PK			1.86 V	11	69.5	38.6
5	*5530.00	98.2 AV			1.86 V	11	59.6	38.6
6	11060.00	61.3 PK	74.0	-12.7	2.67 V	177	43.5	17.8
7	11060.00	48.2 AV	54.0	-5.8	2.67 V	177	30.4	17.8
8	#16590.00	64.0 PK	68.2	-4.2	2.79 V	221	45.2	18.8

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5470.00	62.9 PK	68.2	-5.3	1.79 H	16	58.6	4.3
2	*5610.00	112.3 PK			1.75 H	13	73.6	38.7
3	*5610.00	102.4 AV			1.75 H	13	63.7	38.7
4	#5725.00	64.3 PK	68.2	-3.9	1.67 H	19	59.9	4.4
5	11220.00	60.5 PK	74.0	-13.5	1.79 H	146	43.4	17.1
6	11220.00	46.4 AV	54.0	-7.6	1.79 H	146	29.3	17.1
7	#16830.00	63.7 PK	68.2	-4.5	3.32 H	290	42.6	21.1
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	#5470.00	64.9 PK	68.2	-3.3	1.82 V	7	60.6	4.3
2	*5610.00	113.9 PK			1.79 V	3	75.2	38.7
3	*5610.00	103.9 AV			1.79 V	3	65.2	38.7
4	#5725.00	66.4 PK	68.2	-1.8	1.76 V	11	62.0	4.4
5	11220.00	62.7 PK	74.0	-11.3	2.73 V	179	45.6	17.1
6	11220.00	49.0 AV	54.0	-5.0	2.73 V	179	31.9	17.1
7	#16830.00	66.9 PK	68.2	-1.3	2.93 V	214	45.8	21.1

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5649.60	63.0 PK	68.2	-5.2	1.69 H	21	58.7	4.3
2	#5650.00	63.8 PK	68.2	-4.4	1.73 H	24	59.5	4.3
3	*5775.00	112.4 PK			1.69 H	21	73.4	39.0
4	*5775.00	102.3 AV			1.69 H	21	63.3	39.0
5	#5925.00	61.3 PK	68.2	-6.9	1.71 H	18	56.3	5.0
6	#5936.80	58.6 PK	68.2	-9.6	1.69 H	21	53.6	5.0
7	11550.00	61.1 PK	74.0	-12.9	1.97 H	143	44.4	16.7
8	11550.00	49.1 AV	54.0	-4.9	1.97 H	143	32.4	16.7
9	#17325.00	65.3 PK	68.2	-2.9	3.38 H	266	43.5	21.8
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	#5648.80	63.5 PK	68.2	-4.7	1.76 V	1	59.2	4.3
2	#5650.00	64.7 PK	68.2	-3.5	1.83 V	12	60.4	4.3
3	*5775.00	113.6 PK			1.76 V	1	74.6	39.0
4	*5775.00	103.7 AV			1.76 V	1	64.7	39.0
5	#5925.00	60.4 PK	68.2	-7.8	1.81 V	9	55.4	5.0
6	#5929.60	59.1 PK	68.2	-9.1	1.76 V	1	54.1	5.0
7	11550.00	64.2 PK	74.0	-9.8	2.99 V	202	47.5	16.7
8	11550.00	51.8 AV	54.0	-2.2	2.99 V	202	35.1	16.7
9	#17325.00	67.2 PK	68.2	-1.0	3.12 V	181	45.4	21.8

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

Test Mode C

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	71.0 PK	74.0	-3.0	1.68 H	14	66.5	4.5
2	5150.00	52.6 AV	54.0	-1.4	1.68 H	14	48.1	4.5
3	*5180.00	117.9 PK			1.71 H	4	79.0	38.9
4	*5180.00	107.8 AV			1.71 H	4	68.9	38.9
5	#10360.00	56.9 PK	68.2	-11.3	1.53 H	135	40.5	16.4
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	5150.00	70.7 PK	74.0	-3.3	1.81 V	14	66.2	4.5
2	5150.00	53.5 AV	54.0	-0.5	1.81 V	14	49.0	4.5
3	*5180.00	120.0 PK			1.81 V	13	81.1	38.9
4	*5180.00	109.2 AV			1.81 V	13	70.3	38.9
5	#10360.00	60.6 PK	68.2	-7.6	2.27 V	215	44.2	16.4

Remarks:

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

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5200.00	120.6 PK			1.72 H	7	82.0	38.6
2	*5200.00	109.2 AV			1.72 H	7	70.6	38.6
3	#10400.00	57.5 PK	68.2	-10.7	1.41 H	136	40.7	16.8
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	*5200.00	121.9 PK			1.78 V	2	83.3	38.6
2	*5200.00	110.8 AV			1.78 V	2	72.2	38.6
3	#10400.00	60.3 PK	68.2	-7.9	2.40 V	222	43.5	16.8

Remarks:

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

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5240.00	119.9 PK			1.85 H	6	81.3	38.6
2	*5240.00	109.3 AV			1.85 H	6	70.7	38.6
3	5350.00	54.6 PK	74.0	-19.4	1.72 H	7	50.3	4.3
4	5350.00	43.1 AV	54.0	-10.9	1.72 H	7	38.8	4.3
5	#10480.00	57.6 PK	68.2	-10.6	1.42 H	130	40.9	16.7
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	*5240.00	121.0 PK			1.69 V	14	82.4	38.6
2	*5240.00	110.7 AV			1.69 V	14	72.1	38.6
3	5350.00	55.0 PK	74.0	-19.0	1.68 V	19	50.7	4.3
4	5350.00	42.9 AV	54.0	-11.1	1.68 V	19	38.6	4.3
5	#10480.00	61.0 PK	68.2	-7.2	2.34 V	225	44.3	16.7

Remarks:

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

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	54.9 PK	74.0	-19.1	1.74 H	8	50.4	4.5
2	5150.00	43.2 AV	54.0	-10.8	1.74 H	8	38.7	4.5
3	*5260.00	122.0 PK			1.70 H	7	83.4	38.6
4	*5260.00	110.8 AV			1.70 H	7	72.2	38.6
5	#10520.00	57.3 PK	68.2	-10.9	1.36 H	121	40.6	16.7
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	5150.00	55.0 PK	74.0	-19.0	1.76 V	9	50.5	4.5
2	5150.00	43.0 AV	54.0	-11.0	1.76 V	9	38.5	4.5
3	*5260.00	123.2 PK			1.74 V	4	84.6	38.6
4	*5260.00	112.3 AV			1.74 V	4	73.7	38.6
5	#10520.00	62.3 PK	68.2	-5.9	2.37 V	223	45.6	16.7

Remarks:

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

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5300.00	122.6 PK			1.72 H	12	84.1	38.5
2	*5300.00	111.1 AV			1.72 H	12	72.6	38.5
3	10600.00	56.8 PK	74.0	-17.2	1.40 H	135	40.4	16.4
4	10600.00	43.1 AV	54.0	-10.9	1.40 H	135	26.7	16.4
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	*5300.00	123.9 PK			1.77 V	9	85.4	38.5
2	*5300.00	112.4 AV			1.77 V	9	73.9	38.5
3	10600.00	62.7 PK	74.0	-11.3	2.36 V	227	46.3	16.4
4	10600.00	49.2 AV	54.0	-4.8	2.36 V	227	32.8	16.4

Remarks:

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

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5320.00	117.5 PK			1.68 H	9	78.9	38.6
2	*5320.00	106.1 AV			1.68 H	9	67.5	38.6
3	5350.00	68.9 PK	74.0	-5.1	1.71 H	9	64.6	4.3
4	5350.00	53.0 AV	54.0	-1.0	1.71 H	9	48.7	4.3
5	10640.00	56.6 PK	74.0	-17.4	1.37 H	137	40.0	16.6
6	10640.00	43.0 AV	54.0	-11.0	1.37 H	137	26.4	16.6
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	*5320.00	118.7 PK			1.76 V	10	80.1	38.6
2	*5320.00	107.7 AV			1.76 V	10	69.1	38.6
3	5350.00	69.5 PK	74.0	-4.5	1.71 V	18	65.2	4.3
4	5350.00	53.5 AV	54.0	-0.5	1.71 V	18	49.2	4.3
5	10640.00	60.2 PK	74.0	-13.8	2.29 V	211	43.6	16.6
6	10640.00	47.1 AV	54.0	-6.9	2.29 V	211	30.5	16.6

Remarks:

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

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	57.8 PK	74.0	-16.2	1.72 H	22	53.6	4.2
2	5460.00	46.1 AV	54.0	-7.9	1.72 H	22	41.9	4.2
3	#5470.00	63.6 PK	68.2	-4.6	1.67 H	24	59.3	4.3
4	*5500.00	117.3 PK			1.66 H	8	78.6	38.7
5	*5500.00	106.9 AV			1.66 H	8	68.2	38.7
6	11000.00	59.7 PK	74.0	-14.3	1.56 H	132	41.3	18.4
7	11000.00	46.2 AV	54.0	-7.8	1.56 H	132	27.8	18.4
8	#16500.00	62.5 PK	68.2	-5.7	3.24 H	289	45.4	17.1
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	5460.00	60.9 PK	74.0	-13.1	1.73 V	15	56.7	4.2
2	5460.00	47.4 AV	54.0	-6.6	1.73 V	15	43.2	4.2
3	#5470.00	66.7 PK	68.2	-1.5	1.70 V	13	62.4	4.3
4	*5500.00	120.4 PK			1.79 V	18	81.7	38.7
5	*5500.00	109.5 AV			1.79 V	18	70.8	38.7
6	11000.00	62.2 PK	74.0	-11.8	2.58 V	168	43.8	18.4
7	11000.00	49.1 AV	54.0	-4.9	2.58 V	168	30.7	18.4
8	#16500.00	65.6 PK	68.2	-2.6	2.72 V	224	48.5	17.1

Remarks:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5580.00	115.8 PK			1.67 H	6	77.2	38.6
2	*5580.00	105.2 AV			1.67 H	6	66.6	38.6
3	11160.00	61.1 PK	74.0	-12.9	1.56 H	134	43.9	17.2
4	11160.00	48.8 AV	54.0	-5.2	1.56 H	134	31.6	17.2
5	#16740.00	64.4 PK	68.2	-3.8	3.27 H	280	43.7	20.7
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	*5580.00	119.0 PK			1.73 V	15	80.4	38.6
2	*5580.00	107.7 AV			1.73 V	15	69.1	38.6
3	11160.00	64.0 PK	74.0	-10.0	2.73 V	160	46.8	17.2
4	11160.00	51.6 AV	54.0	-2.4	2.73 V	160	34.4	17.2
5	#16740.00	67.1 PK	68.2	-1.1	3.09 V	225	46.4	20.7

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5700.00	113.0 PK			1.69 H	9	74.2	38.8
2	*5700.00	102.5 AV			1.69 H	9	63.7	38.8
3	#5725.00	62.5 PK	68.2	-5.7	1.62 H	13	58.1	4.4
4	11400.00	60.3 PK	74.0	-13.7	1.56 H	127	42.8	17.5
5	11400.00	48.7 AV	54.0	-5.3	1.56 H	127	31.2	17.5
6	#17100.00	64.4 PK	68.2	-3.8	3.18 H	281	42.8	21.6
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	*5700.00	116.0 PK			1.79 V	17	77.2	38.8
2	*5700.00	104.9 AV			1.79 V	17	66.1	38.8
3	#5725.00	64.7 PK	68.2	-3.5	1.77 V	18	60.3	4.4
4	11400.00	63.2 PK	74.0	-10.8	2.82 V	157	45.7	17.5
5	11400.00	51.4 AV	54.0	-2.6	2.82 V	157	33.9	17.5
6	#17100.00	66.8 PK	68.2	-1.4	3.08 V	228	45.2	21.6

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5600.00	56.8 PK	68.2	-11.4	1.71 H	6	52.6	4.2
2	*5745.00	114.6 PK			1.71 H	6	75.7	38.9
3	*5745.00	104.2 AV			1.71 H	6	65.3	38.9
4	#5998.40	58.7 PK	68.2	-9.5	1.71 H	6	53.7	5.0
5	11490.00	59.8 PK	74.0	-14.2	1.66 H	135	42.9	16.9
6	11490.00	47.3 AV	54.0	-6.7	1.66 H	135	30.4	16.9
7	#17235.00	66.6 PK	68.2	-1.6	3.39 H	283	44.7	21.9
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	#5622.40	56.8 PK	68.2	-11.4	1.79 V	16	52.5	4.3
2	*5745.00	117.1 PK			1.79 V	16	78.2	38.9
3	*5745.00	106.7 AV			1.79 V	16	67.8	38.9
4	#5951.20	59.2 PK	68.2	-9.0	1.79 V	16	54.2	5.0
5	11490.00	62.7 PK	74.0	-11.3	2.81 V	199	45.8	16.9
6	11490.00	50.1 AV	54.0	-3.9	2.81 V	199	33.2	16.9
7	#17235.00	67.5 PK	68.2	-0.7	2.80 V	197	45.6	21.9

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5620.00	56.9 PK	68.2	-11.3	1.70 H	7	52.6	4.3
2	*5785.00	116.2 PK			1.70 H	7	77.2	39.0
3	*5785.00	105.5 AV			1.70 H	7	66.5	39.0
4	#5953.60	58.3 PK	68.2	-9.9	1.70 H	7	53.3	5.0
5	11570.00	60.5 PK	74.0	-13.5	1.00 H	134	43.8	16.7
6	11570.00	47.6 AV	54.0	-6.4	1.00 H	134	30.9	16.7
7	#17355.00	66.0 PK	68.2	-2.2	3.37 H	285	44.4	21.6
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	#5613.60	57.4 PK	68.2	-10.8	1.81 V	17	53.1	4.3
2	*5785.00	119.3 PK			1.81 V	17	80.3	39.0
3	*5785.00	107.9 AV			1.81 V	17	68.9	39.0
4	#5937.60	58.9 PK	68.2	-9.3	1.81 V	17	53.9	5.0
5	11570.00	63.3 PK	74.0	-10.7	2.71 V	173	46.6	16.7
6	11570.00	50.4 AV	54.0	-3.6	2.71 V	173	33.7	16.7
7	#17355.00	67.1 PK	68.2	-1.1	2.79 V	188	45.5	21.6

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5613.60	56.3 PK	68.2	-11.9	1.69 H	9	52.0	4.3
2	*5825.00	114.9 PK			1.69 H	9	75.8	39.1
3	*5825.00	104.1 AV			1.69 H	9	65.0	39.1
4	#5940.00	58.8 PK	68.2	-9.4	1.69 H	9	53.8	5.0
5	11650.00	60.1 PK	74.0	-13.9	1.49 H	121	43.6	16.5
6	11650.00	47.3 AV	54.0	-6.7	1.49 H	121	30.8	16.5
7	#17475.00	65.8 PK	68.2	-2.4	3.36 H	279	43.5	22.3
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	#5604.00	56.2 PK	68.2	-12.0	1.79 V	22	52.0	4.2
2	*5825.00	117.4 PK			1.79 V	22	78.3	39.1
3	*5825.00	106.5 AV			1.79 V	22	67.4	39.1
4	#5925.60	59.6 PK	68.2	-8.6	1.79 V	22	54.6	5.0
5	11650.00	63.0 PK	74.0	-11.0	2.62 V	176	46.5	16.5
6	11650.00	50.1 AV	54.0	-3.9	2.62 V	176	33.6	16.5
7	#17475.00	67.0 PK	68.2	-1.2	2.88 V	206	44.7	22.3

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

802.11ac (VHT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	67.8 PK	74.0	-6.2	1.66 H	10	63.3	4.5
2	5150.00	52.3 AV	54.0	-1.7	1.66 H	10	47.8	4.5
3	*5180.00	117.0 PK			1.68 H	11	78.1	38.9
4	*5180.00	105.8 AV			1.68 H	11	66.9	38.9
5	#10360.00	56.9 PK	68.2	-11.3	1.44 H	124	40.5	16.4
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	5150.00	69.2 PK	74.0	-4.8	1.82 V	11	64.7	4.5
2	5150.00	53.1 AV	54.0	-0.9	1.82 V	11	48.6	4.5
3	*5180.00	118.4 PK			1.74 V	6	79.5	38.9
4	*5180.00	107.4 AV			1.74 V	6	68.5	38.9
5	#10360.00	59.8 PK	68.2	-8.4	2.25 V	217	43.4	16.4

Remarks:

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

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5200.00	123.3 PK			1.65 H	10	84.7	38.6
2	*5200.00	112.6 AV			1.65 H	10	74.0	38.6
3	#10400.00	56.9 PK	68.2	-11.3	1.47 H	137	40.1	16.8
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	*5200.00	124.8 PK			1.78 V	11	86.2	38.6
2	*5200.00	114.1 AV			1.78 V	11	75.5	38.6
3	#10400.00	61.9 PK	68.2	-6.3	2.28 V	226	45.1	16.8

Remarks:

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

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5240.00	123.8 PK			1.69 H	8	85.2	38.6
2	*5240.00	112.9 AV			1.69 H	8	74.3	38.6
3	5350.00	54.5 PK	74.0	-19.5	1.69 H	6	50.2	4.3
4	5350.00	42.5 AV	54.0	-11.5	1.69 H	6	38.2	4.3
5	#10480.00	57.0 PK	68.2	-11.2	1.35 H	121	40.3	16.7
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	*5240.00	125.3 PK			1.78 V	8	86.7	38.6
2	*5240.00	114.3 AV			1.78 V	8	75.7	38.6
3	5350.00	55.3 PK	74.0	-18.7	1.76 V	2	51.0	4.3
4	5350.00	42.8 AV	54.0	-11.2	1.76 V	2	38.5	4.3
5	#10480.00	62.3 PK	68.2	-5.9	2.35 V	224	45.6	16.7

Remarks:

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

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	55.0 PK	74.0	-19.0	1.68 H	10	50.5	4.5
2	5150.00	43.4 AV	54.0	-10.6	1.68 H	10	38.9	4.5
3	*5260.00	122.1 PK			1.75 H	6	83.5	38.6
4	*5260.00	110.7 AV			1.75 H	6	72.1	38.6
5	#10520.00	57.5 PK	68.2	-10.7	1.50 H	126	40.8	16.7
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	5150.00	54.8 PK	74.0	-19.2	1.73 V	3	50.3	4.5
2	5150.00	43.1 AV	54.0	-10.9	1.73 V	3	38.6	4.5
3	*5260.00	123.1 PK			1.78 V	10	84.5	38.6
4	*5260.00	112.3 AV			1.78 V	10	73.7	38.6
5	#10520.00	60.2 PK	68.2	-8.0	2.27 V	228	43.5	16.7

Remarks:

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

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5300.00	121.5 PK			1.70 H	11	83.0	38.5
2	*5300.00	110.4 AV			1.70 H	11	71.9	38.5
3	10600.00	56.8 PK	74.0	-17.2	1.49 H	131	40.4	16.4
4	10600.00	43.1 AV	54.0	-10.9	1.49 H	131	26.7	16.4
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	*5300.00	123.0 PK			1.73 V	14	84.5	38.5
2	*5300.00	111.8 AV			1.73 V	14	73.3	38.5
3	10600.00	59.9 PK	74.0	-14.1	2.40 V	223	43.5	16.4
4	10600.00	46.3 AV	54.0	-7.7	2.40 V	223	29.9	16.4

Remarks:

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

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5320.00	116.2 PK			1.66 H	12	77.6	38.6
2	*5320.00	106.0 AV			1.66 H	12	67.4	38.6
3	5350.00	68.7 PK	74.0	-5.3	1.70 H	5	64.4	4.3
4	5350.00	52.4 AV	54.0	-1.6	1.70 H	5	48.1	4.3
5	10640.00	57.2 PK	74.0	-16.8	1.42 H	128	40.6	16.6
6	10640.00	43.1 AV	54.0	-10.9	1.42 H	128	26.5	16.6
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	*5320.00	117.7 PK			1.79 V	11	79.1	38.6
2	*5320.00	107.1 AV			1.79 V	11	68.5	38.6
3	5350.00	69.6 PK	74.0	-4.4	1.72 V	14	65.3	4.3
4	5350.00	53.0 AV	54.0	-1.0	1.72 V	14	48.7	4.3
5	10640.00	58.3 PK	74.0	-15.7	2.27 V	221	41.7	16.6
6	10640.00	44.5 AV	54.0	-9.5	2.27 V	221	27.9	16.6

Remarks:

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

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	56.9 PK	74.0	-17.1	1.57 H	14	52.7	4.2
2	5460.00	44.6 AV	54.0	-9.4	1.57 H	14	40.4	4.2
3	#5470.00	64.6 PK	68.2	-3.6	1.59 H	12	60.3	4.3
4	*5500.00	117.0 PK			1.62 H	10	78.3	38.7
5	*5500.00	106.4 AV			1.62 H	10	67.7	38.7
6	11000.00	60.1 PK	74.0	-13.9	1.52 H	123	41.7	18.4
7	11000.00	47.0 AV	54.0	-7.0	1.52 H	123	28.6	18.4
8	#16500.00	63.7 PK	68.2	-4.5	3.19 H	284	46.6	17.1
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	5460.00	59.4 PK	74.0	-14.6	1.71 V	12	55.2	4.2
2	5460.00	46.6 AV	54.0	-7.4	1.71 V	12	42.4	4.2
3	#5470.00	67.4 PK	68.2	-0.8	1.68 V	14	63.1	4.3
4	*5500.00	120.4 PK			1.74 V	20	81.7	38.7
5	*5500.00	108.9 AV			1.74 V	20	70.2	38.7
6	11000.00	62.7 PK	74.0	-11.3	2.62 V	174	44.3	18.4
7	11000.00	49.6 AV	54.0	-4.4	2.62 V	174	31.2	18.4
8	#16500.00	66.5 PK	68.2	-1.7	3.01 V	225	49.4	17.1

Remarks:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5580.00	116.4 PK			1.67 H	9	77.8	38.6
2	*5580.00	105.8 AV			1.67 H	9	67.2	38.6
3	11160.00	58.5 PK	74.0	-15.5	1.58 H	143	41.3	17.2
4	11160.00	45.6 AV	54.0	-8.4	1.58 H	143	28.4	17.2
5	#16740.00	64.4 PK	68.2	-3.8	3.34 H	281	43.7	20.7
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	*5580.00	118.8 PK			1.82 V	19	80.2	38.6
2	*5580.00	108.2 AV			1.82 V	19	69.6	38.6
3	11160.00	61.0 PK	74.0	-13.0	2.57 V	183	43.8	17.2
4	11160.00	48.1 AV	54.0	-5.9	2.57 V	183	30.9	17.2
5	#16740.00	67.1 PK	68.2	-1.1	3.08 V	224	46.4	20.7

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5700.00	113.0 PK			1.65 H	5	74.2	38.8
2	*5700.00	102.6 AV			1.65 H	5	63.8	38.8
3	#5725.00	62.6 PK	68.2	-5.6	1.71 H	11	58.2	4.4
4	11400.00	61.1 PK	74.0	-12.9	1.59 H	143	43.6	17.5
5	11400.00	49.1 AV	54.0	-4.9	1.59 H	143	31.6	17.5
6	#17100.00	64.8 PK	68.2	-3.4	3.31 H	293	43.2	21.6
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	*5700.00	115.4 PK			1.76 V	19	76.6	38.8
2	*5700.00	105.0 AV			1.76 V	19	66.2	38.8
3	#5725.00	65.3 PK	68.2	-2.9	1.82 V	21	60.9	4.4
4	11400.00	63.7 PK	74.0	-10.3	2.76 V	161	46.2	17.5
5	11400.00	51.7 AV	54.0	-2.3	2.76 V	161	34.2	17.5
6	#17100.00	67.4 PK	68.2	-0.8	3.11 V	228	45.8	21.6

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5645.60	56.5 PK	68.2	-11.7	1.68 H	6	52.2	4.3
2	*5745.00	114.8 PK			1.68 H	6	75.9	38.9
3	*5745.00	104.5 AV			1.68 H	6	65.6	38.9
4	#5931.20	58.6 PK	68.2	-9.6	1.68 H	6	53.6	5.0
5	11490.00	59.4 PK	74.0	-14.6	1.47 H	115	42.5	16.9
6	11490.00	46.7 AV	54.0	-7.3	1.47 H	115	29.8	16.9
7	#17235.00	66.5 PK	68.2	-1.7	3.38 H	289	44.6	21.9
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	#5646.40	56.0 PK	68.2	-12.2	1.84 V	19	51.7	4.3
2	*5745.00	117.2 PK			1.84 V	19	78.3	38.9
3	*5745.00	106.9 AV			1.84 V	19	68.0	38.9
4	#5989.60	59.7 PK	68.2	-8.5	1.84 V	19	54.7	5.0
5	11490.00	62.2 PK	74.0	-11.8	2.69 V	187	45.3	16.9
6	11490.00	49.6 AV	54.0	-4.4	2.69 V	187	32.7	16.9
7	#17235.00	67.3 PK	68.2	-0.9	2.76 V	197	45.4	21.9

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5621.60	57.6 PK	68.2	-10.6	1.61 H	4	53.3	4.3
2	*5785.00	116.2 PK			1.61 H	4	77.2	39.0
3	*5785.00	105.7 AV			1.61 H	4	66.7	39.0
4	#5930.40	59.2 PK	68.2	-9.0	1.61 H	4	54.2	5.0
5	11570.00	60.3 PK	74.0	-13.7	1.60 H	137	43.6	16.7
6	11570.00	47.4 AV	54.0	-6.6	1.60 H	137	30.7	16.7
7	#17355.00	65.8 PK	68.2	-2.4	3.18 H	279	44.2	21.6
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	#5608.80	56.4 PK	68.2	-11.8	1.71 V	17	52.2	4.2
2	*5785.00	118.7 PK			1.71 V	17	79.7	39.0
3	*5785.00	108.2 AV			1.71 V	17	69.2	39.0
4	#5956.80	58.7 PK	68.2	-9.5	1.71 V	17	53.7	5.0
5	11570.00	63.0 PK	74.0	-11.0	2.84 V	180	46.3	16.7
6	11570.00	50.1 AV	54.0	-3.9	2.84 V	180	33.4	16.7
7	#17355.00	67.0 PK	68.2	-1.2	2.79 V	216	45.4	21.6

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5635.20	56.7 PK	68.2	-11.5	1.64 H	1	52.4	4.3
2	*5825.00	113.7 PK			1.64 H	1	74.6	39.1
3	*5825.00	103.3 AV			1.64 H	1	64.2	39.1
4	#5968.00	58.8 PK	68.2	-9.4	1.64 H	1	53.8	5.0
5	11650.00	59.3 PK	74.0	-14.7	1.46 H	138	42.8	16.5
6	11650.00	46.4 AV	54.0	-7.6	1.46 H	138	29.9	16.5
7	#17475.00	65.7 PK	68.2	-2.5	3.32 H	281	43.4	22.3
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	#5643.20	54.4 PK	68.2	-13.8	1.75 V	19	50.1	4.3
2	*5825.00	116.3 PK			1.75 V	19	77.2	39.1
3	*5825.00	105.6 AV			1.75 V	19	66.5	39.1
4	#5969.60	58.0 PK	68.2	-10.2	1.75 V	19	53.0	5.0
5	11650.00	62.0 PK	74.0	-12.0	2.56 V	175	45.5	16.5
6	11650.00	49.3 AV	54.0	-4.7	2.56 V	175	32.8	16.5
7	#17475.00	67.1 PK	68.2	-1.1	2.89 V	204	44.8	22.3

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

802.11ac (VHT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	65.6 PK	74.0	-8.4	1.69 H	5	61.1	4.5
2	5150.00	52.1 AV	54.0	-1.9	1.69 H	5	47.6	4.5
3	*5190.00	109.6 PK			1.71 H	7	70.9	38.7
4	*5190.00	100.1 AV			1.71 H	7	61.4	38.7
5	#10380.00	57.1 PK	68.2	-11.1	1.53 H	130	40.5	16.6
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	5150.00	67.4 PK	74.0	-6.6	1.86 V	20	62.9	4.5
2	5150.00	53.0 AV	54.0	-1.0	1.86 V	20	48.5	4.5
3	*5190.00	111.0 PK			1.79 V	13	72.3	38.7
4	*5190.00	101.4 AV			1.79 V	13	62.7	38.7
5	#10380.00	57.2 PK	68.2	-11.0	2.32 V	222	40.6	16.6

Remarks:

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

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	57.2 PK	74.0	-16.8	1.69 H	9	52.7	4.5
2	5150.00	45.0 AV	54.0	-9.0	1.69 H	9	40.5	4.5
3	*5230.00	119.1 PK			1.72 H	5	80.5	38.6
4	*5230.00	109.0 AV			1.72 H	5	70.4	38.6
5	5350.00	55.4 PK	74.0	-18.6	1.74 H	5	51.1	4.3
6	5350.00	42.5 AV	54.0	-11.5	1.74 H	5	38.2	4.3
7	#10460.00	57.6 PK	68.2	-10.6	1.37 H	120	40.9	16.7
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	5150.00	68.6 PK	74.0	-5.4	1.79 V	12	64.1	4.5
2	5150.00	53.2 AV	54.0	-0.8	1.79 V	12	48.7	4.5
3	*5230.00	120.3 PK			1.84 V	16	81.7	38.6
4	*5230.00	110.2 AV			1.84 V	16	71.6	38.6
5	5350.00	55.2 PK	74.0	-18.8	1.89 V	16	50.9	4.3
6	5350.00	41.1 AV	54.0	-12.9	1.89 V	16	36.8	4.3
7	#10460.00	56.8 PK	68.2	-11.4	2.26 V	217	40.1	16.7

Remarks:

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

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	55.5 PK	74.0	-18.5	1.75 H	11	51.0	4.5
2	5150.00	43.1 AV	54.0	-10.9	1.75 H	11	38.6	4.5
3	*5270.00	117.8 PK			1.70 H	7	79.2	38.6
4	*5270.00	107.8 AV			1.70 H	7	69.2	38.6
5	5350.00	66.5 PK	74.0	-7.5	1.75 H	2	62.2	4.3
6	5350.00	49.6 AV	54.0	-4.4	1.75 H	2	45.3	4.3
7	#10540.00	56.7 PK	68.2	-11.5	1.45 H	121	40.1	16.6
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	5150.00	57.7 PK	74.0	-16.3	1.77 V	18	53.2	4.5
2	5150.00	45.1 AV	54.0	-8.9	1.77 V	18	40.6	4.5
3	*5270.00	119.0 PK			1.70 V	23	80.4	38.6
4	*5270.00	109.3 AV			1.70 V	23	70.7	38.6
5	5350.00	67.5 PK	74.0	-6.5	1.69 V	25	63.2	4.3
6	5350.00	50.4 AV	54.0	-3.6	1.69 V	25	46.1	4.3
7	#10540.00	57.5 PK	68.2	-10.7	2.31 V	221	40.9	16.6

Remarks:

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

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5310.00	109.9 PK			1.67 H	10	71.3	38.6
2	*5310.00	100.0 AV			1.67 H	10	61.4	38.6
3	5350.00	64.5 PK	74.0	-9.5	1.69 H	7	60.2	4.3
4	5350.00	51.8 AV	54.0	-2.2	1.69 H	7	47.5	4.3
5	10620.00	57.2 PK	74.0	-16.8	1.40 H	127	40.7	16.5
6	10620.00	43.3 AV	54.0	-10.7	1.40 H	127	26.8	16.5
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	*5310.00	111.0 PK			1.74 V	10	72.4	38.6
2	*5310.00	101.2 AV			1.74 V	10	62.6	38.6
3	5350.00	66.1 PK	74.0	-7.9	1.70 V	17	61.8	4.3
4	5350.00	53.0 AV	54.0	-1.0	1.70 V	17	48.7	4.3
5	10620.00	56.5 PK	74.0	-17.5	2.41 V	225	40.0	16.5
6	10620.00	43.2 AV	54.0	-10.8	2.41 V	225	26.7	16.5

Remarks:

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

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	60.5 PK	74.0	-13.5	1.56 H	17	56.3	4.2
2	5460.00	46.8 AV	54.0	-7.2	1.56 H	17	42.6	4.2
3	#5470.00	64.9 PK	68.2	-3.3	1.61 H	22	60.6	4.3
4	*5510.00	111.6 PK			1.62 H	10	73.0	38.6
5	*5510.00	102.0 AV			1.62 H	10	63.4	38.6
6	11020.00	59.1 PK	74.0	-14.9	1.61 H	147	41.0	18.1
7	11020.00	45.7 AV	54.0	-8.3	1.61 H	147	27.6	18.1
8	#16530.00	61.9 PK	68.2	-6.3	3.18 H	278	44.2	17.7
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	5460.00	63.3 PK	74.0	-10.7	1.67 V	16	59.1	4.2
2	5460.00	49.4 AV	54.0	-4.6	1.67 V	16	45.2	4.2
3	#5470.00	67.5 PK	68.2	-0.7	1.65 V	14	63.2	4.3
4	*5510.00	113.9 PK			1.76 V	22	75.3	38.6
5	*5510.00	104.4 AV			1.76 V	22	65.8	38.6
6	11020.00	61.9 PK	74.0	-12.1	2.58 V	176	43.8	18.1
7	11020.00	48.5 AV	54.0	-5.5	2.58 V	176	30.4	18.1
8	#16530.00	64.7 PK	68.2	-3.5	3.03 V	224	47.0	17.7

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5550.00	114.4 PK			1.64 H	7	75.8	38.6
2	*5550.00	104.8 AV			1.64 H	7	66.2	38.6
3	11100.00	58.9 PK	74.0	-15.1	1.57 H	131	41.6	17.3
4	11100.00	45.7 AV	54.0	-8.3	1.57 H	131	28.4	17.3
5	#16650.00	63.8 PK	68.2	-4.4	3.36 H	295	44.1	19.7
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	*5550.00	116.8 PK			1.82 V	19	78.2	38.6
2	*5550.00	107.2 AV			1.82 V	19	68.6	38.6
3	11100.00	61.7 PK	74.0	-12.3	2.62 V	169	44.4	17.3
4	11100.00	48.5 AV	54.0	-5.5	2.62 V	169	31.2	17.3
5	#16650.00	66.6 PK	68.2	-1.6	3.06 V	223	46.9	19.7

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5670.00	110.1 PK			1.68 H	4	71.4	38.7
2	*5670.00	100.4 AV			1.68 H	4	61.7	38.7
3	#5725.00	58.7 PK	68.2	-9.5	1.76 H	15	54.3	4.4
4	11340.00	58.9 PK	74.0	-15.1	1.49 H	133	41.2	17.7
5	11340.00	46.0 AV	54.0	-8.0	1.49 H	133	28.3	17.7
6	#17010.00	65.6 PK	68.2	-2.6	3.18 H	295	43.6	22.0
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	*5670.00	112.5 PK			1.79 V	16	73.8	38.7
2	*5670.00	102.8 AV			1.79 V	16	64.1	38.7
3	#5725.00	61.0 PK	68.2	-7.2	1.82 V	21	56.6	4.4
4	11340.00	61.5 PK	74.0	-12.5	2.63 V	165	43.8	17.7
5	11340.00	48.1 AV	54.0	-5.9	2.63 V	165	30.4	17.7
6	#17010.00	67.3 PK	68.2	-0.9	3.08 V	230	45.3	22.0

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5628.80	56.7 PK	68.2	-11.5	1.67 H	5	52.4	4.3
2	*5755.00	114.2 PK			1.67 H	5	75.3	38.9
3	*5755.00	104.1 AV			1.67 H	5	65.2	38.9
4	#5980.80	58.3 PK	68.2	-9.9	1.67 H	5	53.3	5.0
5	11510.00	59.8 PK	74.0	-14.2	1.64 H	135	42.9	16.9
6	11510.00	47.5 AV	54.0	-6.5	1.64 H	135	30.6	16.9
7	#17265.00	65.8 PK	68.2	-2.4	3.29 H	295	43.8	22.0
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	#5631.20	55.8 PK	68.2	-12.4	1.78 V	19	51.5	4.3
2	*5755.00	116.4 PK			1.78 V	19	77.5	38.9
3	*5755.00	106.5 AV			1.78 V	19	67.6	38.9
4	#5971.20	59.4 PK	68.2	-8.8	1.78 V	19	54.5	4.9
5	11510.00	62.7 PK	74.0	-11.3	2.76 V	186	45.8	16.9
6	11510.00	50.3 AV	54.0	-3.7	2.76 V	186	33.4	16.9
7	#17265.00	67.3 PK	68.2	-0.9	2.89 V	208	45.3	22.0

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5600.80	55.8 PK	68.2	-12.4	1.68 H	3	51.6	4.2
2	*5795.00	113.2 PK			1.68 H	3	74.2	39.0
3	*5795.00	103.1 AV			1.68 H	3	64.1	39.0
4	#5992.80	57.9 PK	68.2	-10.3	1.68 H	3	52.9	5.0
5	11590.00	60.0 PK	74.0	-14.0	1.62 H	124	43.5	16.5
6	11590.00	47.2 AV	54.0	-6.8	1.62 H	124	30.7	16.5
7	#17385.00	65.5 PK	68.2	-2.7	3.38 H	293	44.2	21.3
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	#5617.60	55.0 PK	68.2	-13.2	1.72 V	11	50.7	4.3
2	*5795.00	115.4 PK			1.72 V	11	76.4	39.0
3	*5795.00	105.5 AV			1.72 V	11	66.5	39.0
4	#5962.40	58.6 PK	68.2	-9.6	1.72 V	11	53.6	5.0
5	11590.00	62.8 PK	74.0	-11.2	2.68 V	184	46.3	16.5
6	11590.00	49.9 AV	54.0	-4.1	2.68 V	184	33.4	16.5
7	#17385.00	67.0 PK	68.2	-1.2	2.86 V	184	45.7	21.3

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
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

802.11ac (VHT80)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	65.9 PK	74.0	-8.1	1.65 H	12	61.4	4.5
2	5150.00	52.6 AV	54.0	-1.4	1.65 H	12	48.1	4.5
3	*5210.00	105.3 PK			1.71 H	10	66.7	38.6
4	*5210.00	94.9 AV			1.71 H	10	56.3	38.6
5	5350.00	58.1 PK	74.0	-15.9	1.75 H	10	53.8	4.3
6	5350.00	44.5 AV	54.0	-9.5	1.75 H	10	40.2	4.3
7	#10420.00	56.9 PK	68.2	-11.3	1.45 H	124	40.2	16.7
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	5150.00	66.8 PK	74.0	-7.2	1.81 V	13	62.3	4.5
2	5150.00	53.4 AV	54.0	-0.6	1.81 V	13	48.9	4.5
3	*5210.00	106.7 PK			1.75 V	11	68.1	38.6
4	*5210.00	96.4 AV			1.75 V	11	57.8	38.6
5	5350.00	59.5 PK	74.0	-14.5	1.87 V	17	55.2	4.3
6	5350.00	46.2 AV	54.0	-7.8	1.87 V	17	41.9	4.3
7	#10420.00	57.0 PK	68.2	-11.2	2.32 V	226	40.3	16.7

Remarks:

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

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5150.00	56.8 PK	74.0	-17.2	1.69 H	9	52.3	4.5
2	5150.00	45.2 AV	54.0	-8.8	1.69 H	9	40.7	4.5
3	*5290.00	106.6 PK			1.71 H	10	68.0	38.6
4	*5290.00	96.0 AV			1.71 H	10	57.4	38.6
5	5350.00	63.5 PK	74.0	-10.5	1.75 H	10	59.2	4.3
6	5350.00	52.4 AV	54.0	-1.6	1.75 H	10	48.1	4.3
7	#10580.00	57.3 PK	68.2	-10.9	1.40 H	133	40.8	16.5
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	5150.00	59.2 PK	74.0	-14.8	1.76 V	16	54.7	4.5
2	5150.00	46.3 AV	54.0	-7.7	1.76 V	16	41.8	4.5
3	*5290.00	108.0 PK			1.72 V	17	69.4	38.6
4	*5290.00	97.2 AV			1.72 V	17	58.6	38.6
5	5350.00	64.7 PK	74.0	-9.3	1.71 V	16	60.4	4.3
6	5350.00	53.1 AV	54.0	-0.9	1.71 V	16	48.8	4.3
7	#10580.00	56.8 PK	68.2	-11.4	2.38 V	213	40.3	16.5

Remarks:

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

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	5460.00	63.1 PK	74.0	-10.9	1.73 H	12	58.9	4.2
2	5460.00	49.9 AV	54.0	-4.1	1.73 H	12	45.7	4.2
3	#5470.00	64.1 PK	68.2	-4.1	1.75 H	15	59.8	4.3
4	*5530.00	107.2 PK			1.66 H	5	68.6	38.6
5	*5530.00	97.2 AV			1.66 H	5	58.6	38.6
6	11060.00	58.7 PK	74.0	-15.3	1.59 H	133	40.9	17.8
7	11060.00	45.4 AV	54.0	-8.6	1.59 H	133	27.6	17.8
8	#16590.00	62.4 PK	68.2	-5.8	3.36 H	291	43.6	18.8
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	5460.00	65.9 PK	74.0	-8.1	1.73 V	21	61.7	4.2
2	5460.00	52.7 AV	54.0	-1.3	1.73 V	21	48.5	4.2
3	#5470.00	67.0 PK	68.2	-1.2	1.71 V	24	62.7	4.3
4	*5530.00	109.7 PK			1.71 V	17	71.1	38.6
5	*5530.00	99.6 AV			1.71 V	17	61.0	38.6
6	11060.00	61.0 PK	74.0	-13.0	2.66 V	179	43.2	17.8
7	11060.00	48.0 AV	54.0	-6.0	2.66 V	179	30.2	17.8
8	#16590.00	63.5 PK	68.2	-4.7	3.09 V	223	44.7	18.8

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5470.00	62.5 PK	68.2	-5.7	1.74 H	16	58.2	4.3
2	*5610.00	112.2 PK			1.62 H	5	73.5	38.7
3	*5610.00	102.3 AV			1.62 H	5	63.6	38.7
4	#5725.00	64.0 PK	68.2	-4.2	1.62 H	3	59.6	4.4
5	11220.00	59.9 PK	74.0	-14.1	1.57 H	125	42.8	17.1
6	11220.00	45.7 AV	54.0	-8.3	1.57 H	125	28.6	17.1
7	#16830.00	63.9 PK	68.2	-4.3	3.37 H	294	42.8	21.1
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	#5470.00	64.6 PK	68.2	-3.6	1.79 V	21	60.3	4.3
2	*5610.00	114.7 PK			1.74 V	16	76.0	38.7
3	*5610.00	104.8 AV			1.74 V	16	66.1	38.7
4	#5725.00	66.2 PK	68.2	-2.0	1.67 V	12	61.8	4.4
5	11220.00	62.4 PK	74.0	-11.6	2.64 V	162	45.3	17.1
6	11220.00	48.7 AV	54.0	-5.3	2.64 V	162	31.6	17.1
7	#16830.00	66.6 PK	68.2	-1.6	3.11 V	223	45.5	21.1

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	#5645.60	59.2 PK	68.2	-9.0	1.64 H	10	54.9	4.3
2	#5650.00	63.7 PK	68.2	-4.5	1.58 H	13	59.4	4.3
3	*5775.00	112.6 PK			1.64 H	10	73.6	39.0
4	*5775.00	102.2 AV			1.64 H	10	63.2	39.0
5	#5925.00	59.7 PK	68.2	-8.5	1.60 H	15	54.7	5.0
6	#5925.60	59.2 PK	68.2	-9.0	1.64 H	10	54.2	5.0
7	11550.00	61.3 PK	74.0	-12.7	1.56 H	137	44.6	16.7
8	11550.00	49.1 AV	54.0	-4.9	1.56 H	137	32.4	16.7
9	#17325.00	65.1 PK	68.2	-3.1	3.37 H	297	43.3	21.8
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	#5642.40	64.0 PK	68.2	-4.2	1.77 V	21	59.7	4.3
2	#5650.00	65.1 PK	68.2	-3.1	1.79 V	26	60.8	4.3
3	*5775.00	115.1 PK			1.77 V	21	76.1	39.0
4	*5775.00	104.5 AV			1.77 V	21	65.5	39.0
5	#5925.00	60.7 PK	68.2	-7.5	1.73 V	18	55.7	5.0
6	#5929.60	59.4 PK	68.2	-8.8	1.77 V	21	54.4	5.0
7	11550.00	64.5 PK	74.0	-9.5	2.72 V	184	47.8	16.7
8	11550.00	52.0 AV	54.0	-2.0	2.72 V	184	35.3	16.7
9	#17325.00	67.1 PK	68.2	-1.1	2.87 V	173	45.3	21.8

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. The other emission levels were very low against the limit
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency
6. " # ": The radiated frequency is out of the restricted band

Below 1GHz Worst-Case Data:

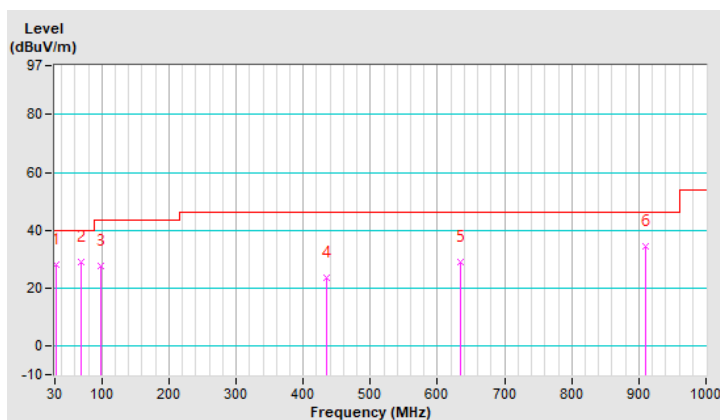
802.11ac (VHT80)

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
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	31.94	28.0 QP	40.0	-12.0	1.00 H	76	39.4	-11.4
2	69.77	28.9 QP	40.0	-11.1	1.00 H	177	40.4	-11.5
3	97.90	27.8 QP	43.5	-15.7	1.25 H	235	42.0	-14.2
4	434.49	23.7 QP	46.0	-22.3	1.25 H	331	28.5	-4.8
5	633.34	28.9 QP	46.0	-17.1	1.50 H	251	30.3	-1.4
6	909.79	34.6 QP	46.0	-11.4	1.00 H	168	30.8	3.8

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. 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

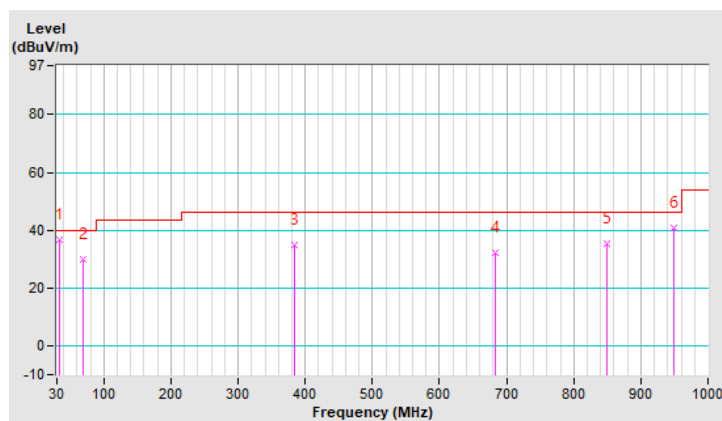


CHANNEL	TX Channel 155	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	A		

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	33.88	36.6 QP	40.0	-3.4	1.00 V	120	47.9	-11.3
2	69.77	29.7 QP	40.0	-10.3	1.50 V	290	41.2	-11.5
3	383.08	35.0 QP	46.0	-11.0	1.25 V	8	41.0	-6.0
4	683.78	32.2 QP	46.0	-13.8	1.00 V	7	33.0	-0.8
5	849.65	35.4 QP	46.0	-10.6	1.00 V	343	33.2	2.2
6	949.56	41.0 QP	46.0	-5.0	1.25 V	351	36.5	4.5

Remarks:

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

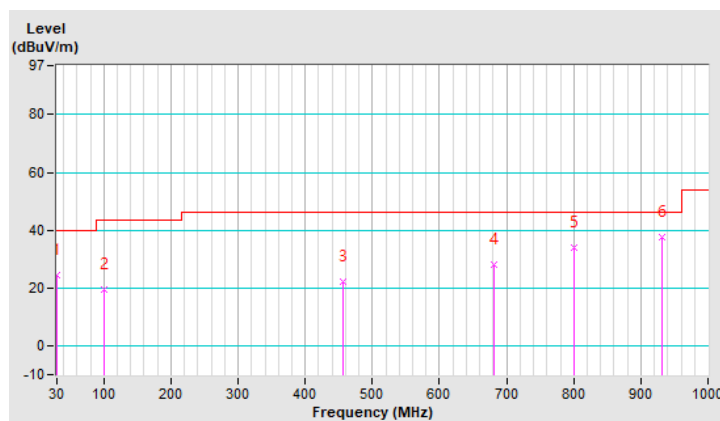


CHANNEL	TX Channel 155	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	B		

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	30.97	24.4 QP	40.0	-15.6	1.00 H	64	36.2	-11.8
2	99.84	19.6 QP	43.5	-23.9	1.50 H	169	33.5	-13.9
3	455.83	22.0 QP	46.0	-24.0	1.00 H	63	26.3	-4.3
4	681.84	28.2 QP	46.0	-17.8	1.25 H	345	29.0	-0.8
5	800.18	33.8 QP	46.0	-12.2	1.00 H	115	32.3	1.5
6	932.10	37.5 QP	46.0	-8.5	1.50 H	175	33.3	4.2

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. 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

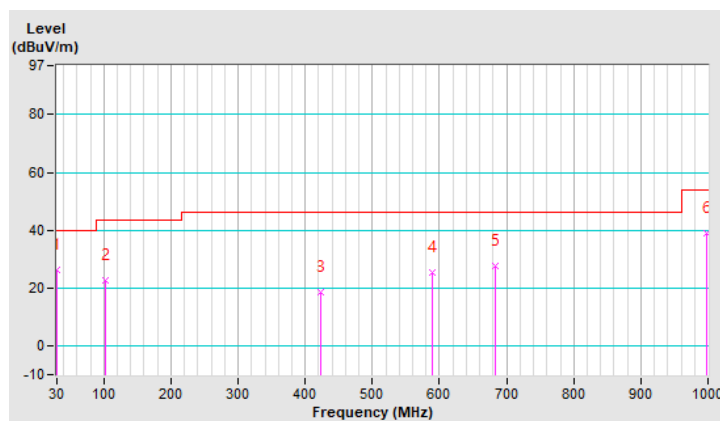


CHANNEL	TX Channel 155	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	B		

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	30.00	26.1 QP	40.0	-13.9	1.50 V	15	37.4	-11.3
2	101.78	22.6 QP	43.5	-20.9	1.00 V	142	36.2	-13.6
3	422.85	18.6 QP	46.0	-27.4	1.25 V	288	23.9	-5.3
4	589.69	25.4 QP	46.0	-20.6	1.50 V	117	27.5	-2.1
5	683.78	27.8 QP	46.0	-18.2	1.00 V	339	28.6	-0.8
6	997.09	39.1 QP	54.0	-14.9	1.00 V	271	34.2	4.9

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. 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

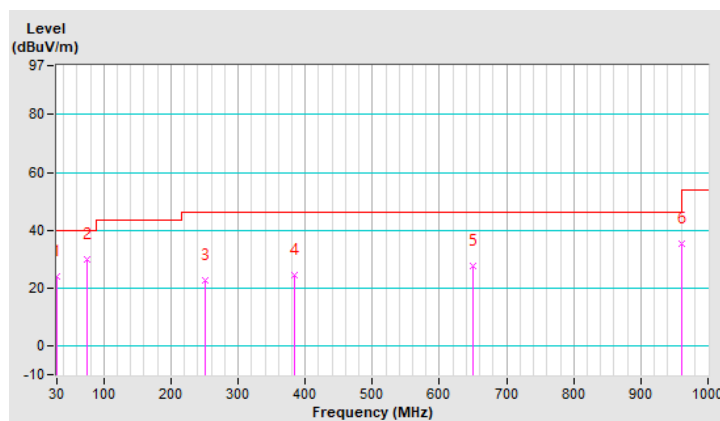


CHANNEL	TX Channel 155	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	C		

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	30.00	23.9 QP	40.0	-16.1	1.00 H	57	35.2	-11.3
2	74.62	29.8 QP	40.0	-10.2	1.00 H	103	42.3	-12.5
3	250.19	22.5 QP	46.0	-23.5	1.25 H	83	32.5	-10.0
4	383.08	24.4 QP	46.0	-21.6	1.25 H	63	30.4	-6.0
5	649.83	27.8 QP	46.0	-18.2	1.00 H	153	28.9	-1.1
6	961.20	35.2 QP	54.0	-18.8	1.50 H	209	30.5	4.7

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

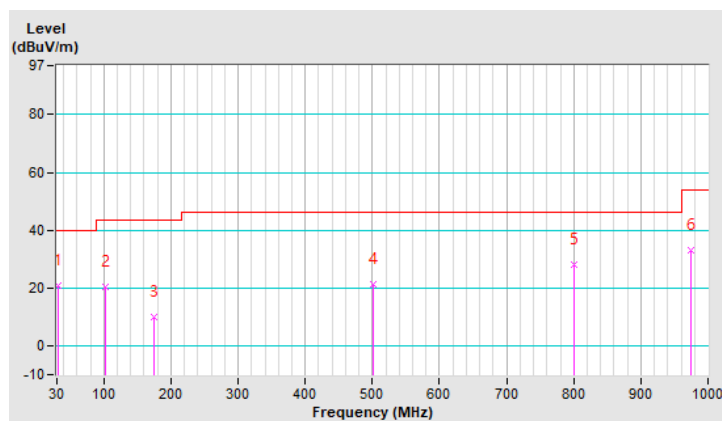


CHANNEL	TX Channel 155	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		
TEST MODE	C		

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	31.94	20.9 QP	40.0	-19.1	1.25 V	197	32.3	-11.4
2	101.78	20.5 QP	43.5	-23.0	1.00 V	135	34.1	-13.6
3	174.53	9.8 QP	43.5	-33.7	1.50 V	339	19.7	-9.9
4	500.45	21.1 QP	46.0	-24.9	1.25 V	57	24.9	-3.8
5	800.18	28.1 QP	46.0	-17.9	1.00 V	221	26.6	1.5
6	973.81	32.9 QP	54.0	-21.1	1.50 V	115	27.9	5.0

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

Test Date: Dec. 12, 2019 ~ Feb. 03, 2020

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration	Due Date Of Calibration
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 11, 2019	Dec. 10, 2020
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Sep. 05, 2019	Sep. 04, 2020
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 21, 2019	Feb. 20, 2020
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 22, 2019	Aug. 21, 2020
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 1.

3. The VCCI Site Registration No. is C-12040.

4.2.3 Test Procedures

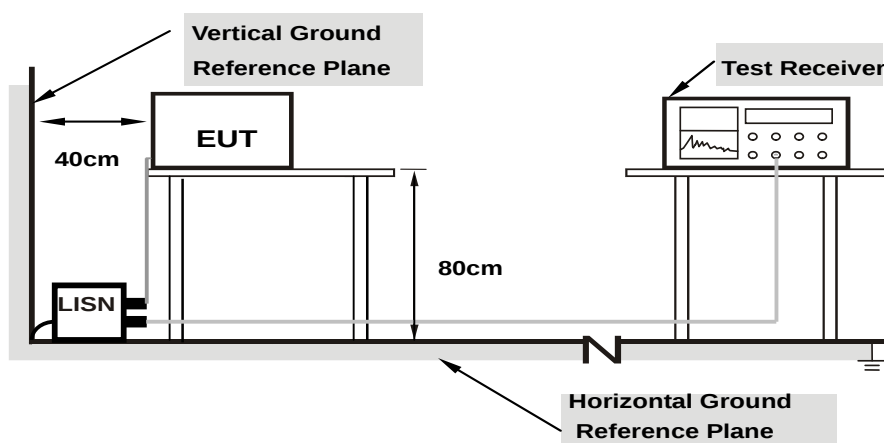
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance 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

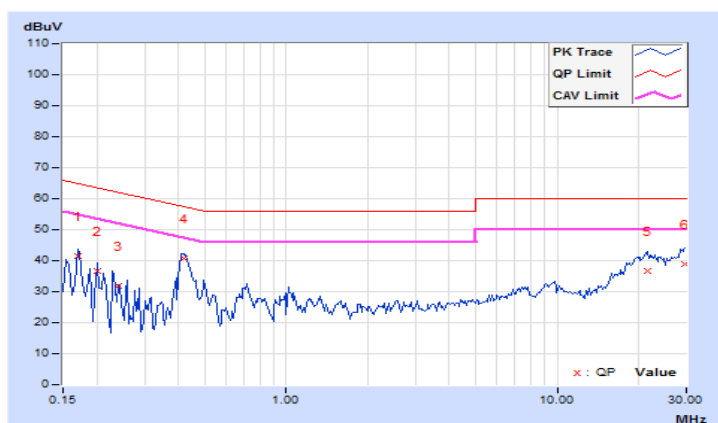
Same as 4.1.6.

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	0.16953	9.64	31.96	22.23	41.60	31.87	64.98	54.98	-23.38	-23.11
2	0.20078	9.64	27.01	15.69	36.65	25.33	63.58	53.58	-26.93	-28.25
3	0.23988	9.64	22.22	13.55	31.86	23.19	62.10	52.10	-30.24	-28.91
4	0.41953	9.66	31.06	24.17	40.72	33.83	57.46	47.46	-16.74	-13.63
5	21.48438	10.06	26.57	21.40	36.63	31.46	60.00	50.00	-23.37	-18.54
6	29.67578	10.10	28.61	23.66	38.71	33.76	60.00	50.00	-21.29	-16.24

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.

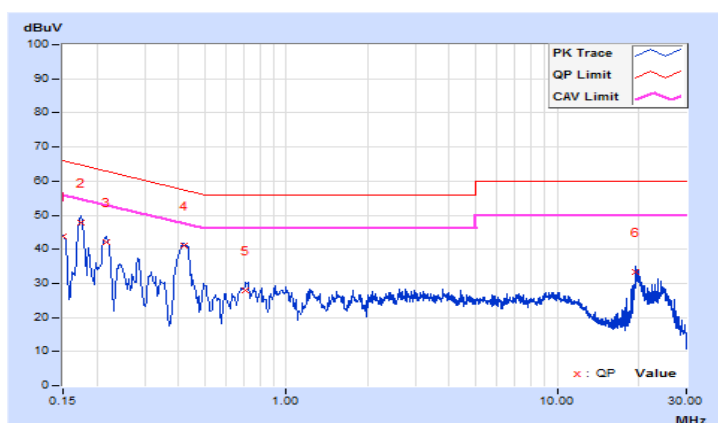


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

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	0.15000	9.67	34.18	20.21	43.85	29.88	66.00	56.00	-22.15	-26.12
2	0.17400	9.67	38.21	26.82	47.88	36.49	64.77	54.77	-16.89	-18.28
3	0.21690	9.66	32.58	21.91	42.24	31.57	62.94	52.94	-20.70	-21.37
4	0.41799	9.69	31.54	23.84	41.23	33.53	57.49	47.49	-16.26	-13.96
5	0.70982	9.71	18.16	11.03	27.87	20.74	56.00	46.00	-28.13	-25.26
6	19.52600	9.98	23.40	20.74	33.38	30.72	60.00	50.00	-26.62	-19.28

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.

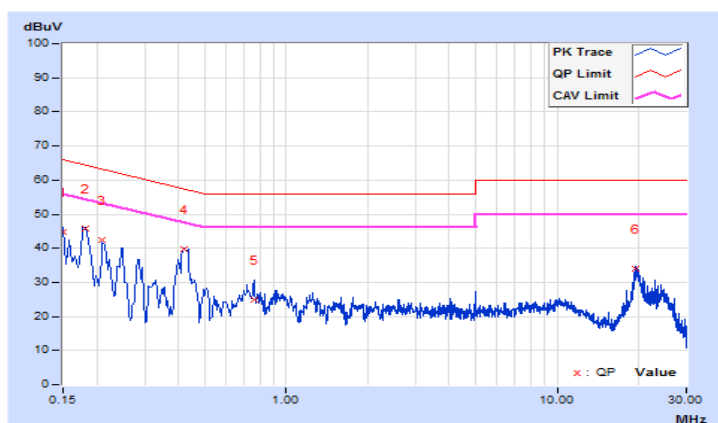


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

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	0.15000	9.64	35.08	20.18	44.72	29.82	66.00	56.00	-21.28	-26.18
2	0.18200	9.64	36.18	23.81	45.82	33.45	64.39	54.39	-18.57	-20.94
3	0.21000	9.64	32.77	22.73	42.41	32.37	63.21	53.21	-20.80	-20.84
4	0.42131	9.66	30.03	23.24	39.69	32.90	57.42	47.42	-17.73	-14.52
5	0.75800	9.68	15.37	8.76	25.05	18.44	56.00	46.00	-30.95	-27.56
6	19.52600	10.04	23.94	20.65	33.98	30.69	60.00	50.00	-26.02	-19.31

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.

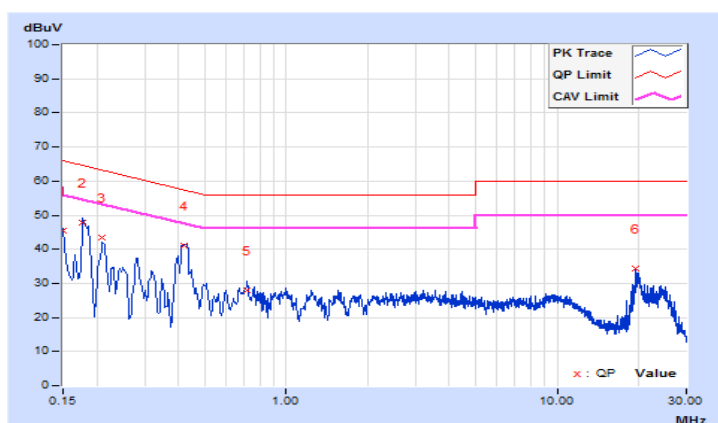


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	C		

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	0.15000	9.67	35.63	20.95	45.30	30.62	66.00	56.00	-20.70	-25.38
2	0.17800	9.66	38.30	28.53	47.96	38.19	64.58	54.58	-16.62	-16.39
3	0.21000	9.66	33.61	23.72	43.27	33.38	63.21	53.21	-19.94	-19.83
4	0.41799	9.69	31.45	23.64	41.14	33.33	57.49	47.49	-16.35	-14.16
5	0.71734	9.71	18.37	11.79	28.08	21.50	56.00	46.00	-27.92	-24.50
6	19.52600	9.98	24.33	22.15	34.31	32.13	60.00	50.00	-25.69	-17.87

Remarks:

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

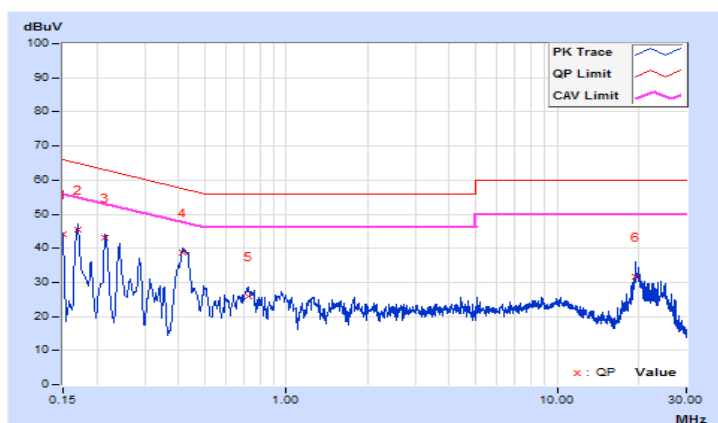


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	C		

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	0.15000	9.64	34.53	20.22	44.17	29.86	66.00	56.00	-21.83	-26.14
2	0.17000	9.64	35.84	20.13	45.48	29.77	64.96	54.96	-19.48	-25.19
3	0.21400	9.64	33.30	24.08	42.94	33.72	63.05	53.05	-20.11	-19.33
4	0.41400	9.66	29.17	19.17	38.83	28.83	57.57	47.57	-18.74	-18.74
5	0.72494	9.68	16.14	8.93	25.82	18.61	56.00	46.00	-30.18	-27.39
6	19.52200	10.04	21.46	17.52	31.50	27.56	60.00	50.00	-28.50	-22.44

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

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

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

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

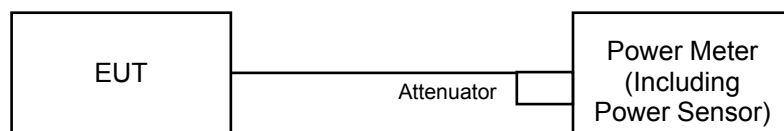
Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

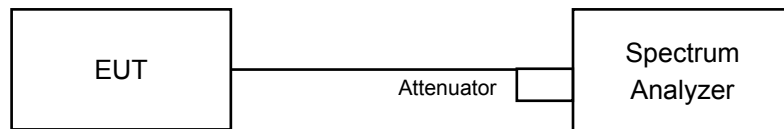
4.3.2 Test Setup

For Power Output

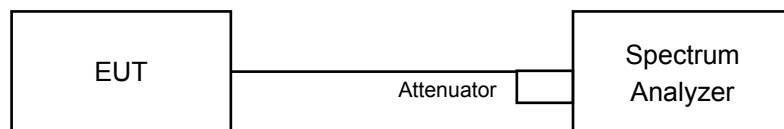
802.11a, 802.11ac (VHT20), 802.11ac (VHT40)



802.11ac (VHT80)



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

802.11a, 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 and set the detector to average. Duty factor is not added to measured value.

For 802.11ac (VHT80)

- a. Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- b. Set sweep trigger to “free run”.
- c. Set RBW = 1 MHz.
- d. Set VBW $\geq$ 3 MHz.
- e. Number of points in sweep $\geq$ 2 Span / RBW.
- f. Sweep time $\leq$ (number of points in sweep) * T
- g. Using emission bandwidth to determine the frequency span for integration the channel bandwidth.
- h. Detector = RMS.
- i. Trace mode = max hold.
- j. Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
- k. 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

Test Mode A

Power Output:

For U-NII-1 Band (Outdoor Access Point)

CDD Mode

802.11a

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	18.12	18.73	139.508	21.45	30.00	-0.50	20.95	21.00	Pass
40	5200	18.09	18.80	140.275	21.47	30.00	-0.50	20.97	21.00	Pass
48	5240	18.17	18.72	140.088	21.46	30.00	-0.50	20.96	21.00	Pass

Note:

1. Gain = 5.10dBi < 6dBi, so the power limit no need to reduced.
2. Gain = -0.50dBi (above 30 degrees from the horizon).
3. EIRP = conducted power + (-0.50dBi) + array gain (0 dB (i.e., no array gain) for $N_{ANT} \leq 4$).

802.11ac (VHT20)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	17.93	18.37	130.794	21.17	30.00	-0.50	20.67	21.00	Pass
40	5200	18.16	18.57	137.409	21.38	30.00	-0.50	20.88	21.00	Pass
48	5240	18.23	18.61	139.138	21.43	30.00	-0.50	20.93	21.00	Pass

Note:

1. Gain = 5.10dBi < 6dBi, so the power limit no need to reduced.
2. Gain = -0.50dBi (above 30 degrees from the horizon).
3. EIRP = conducted power + (-0.50dBi) + array gain (0 dB (i.e., no array gain) for $N_{ANT} \leq 4$).

802.11ac (VHT40)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
38	5190	14.73	15.38	64.231	18.08	30.00	-0.50	17.58	21.00	Pass
46	5230	18.06	18.74	138.790	21.42	30.00	-0.50	20.92	21.00	Pass

Note:

1. Gain = 5.10dBi < 6dBi, so the power limit no need to reduced.
2. Gain = -0.50dBi (above 30 degrees from the horizon).
3. EIRP = conducted power + (-0.50dBi) + array gain (0 dB (i.e., no array gain) for $N_{ANT} \leq 4$).

802.11ac (VHT80)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
42	5210	12.58	13.03	38.204	15.82	30.00	-0.50	15.32	21.00	Pass

Note:

1. Gain = 5.10dBi < 6dBi, so the power limit no need to reduced.
2. Gain = -0.50dBi (above 30 degrees from the horizon).
3. EIRP = conducted power + (-0.50dBi) + array gain (0 dB (i.e., no array gain) for $N_{ANT} \leq 4$).

Beamforming Mode

802.11ac (VHT20)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	14.93	15.37	65.552	18.17	27.89	2.51	20.68	21.00	Pass
40	5200	15.16	15.57	68.868	18.38	27.89	2.51	20.89	21.00	Pass
48	5240	15.23	15.61	69.735	18.43	27.89	2.51	20.94	21.00	Pass

Note:

1. Gain = 5.10dBi + 10log(2) = 8.11dBi > 6dBi, so the limit shall be reduced to 30-(8.11-6) = 27.89dBm.
2. Gain = -0.50dBi (above 30 degrees from the horizon).
3. EIRP = conducted power + (-0.50dBi) + array gain (3.01dBi) (0 dB (i.e., no array gain) for $N_{ANT} \leq 4$).

802.11ac (VHT40)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
38	5190	14.73	15.38	64.231	18.08	27.89	2.51	20.59	21.00	Pass
46	5230	15.06	15.74	69.560	18.42	27.89	2.51	20.93	21.00	Pass

Note:

1. Gain = 5.10dBi + 10log(2) = 8.11dBi > 6dBi, so the limit shall be reduced to 30-(8.11-6) = 27.89dBm.
2. Gain = -0.50dBi (above 30 degrees from the horizon).
3. EIRP = conducted power + (-0.50dBi) + array gain (3.01dBi) (0 dB (i.e., no array gain) for $N_{ANT} \leq 4$).

802.11ac (VHT80)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
42	5210	12.58	13.03	38.204	15.82	27.89	2.51	18.33	21.00	Pass

Note:

1. Gain = 5.10dBi + 10log(2) = 8.11dBi > 6dBi, so the limit shall be reduced to 30-(8.11-6) = 27.89dBm.
2. Gain = -0.50dBi (above 30 degrees from the horizon).
3. EIRP = conducted power + (-0.50dBi) + array gain (3.01dBi) (0 dB (i.e., no array gain) for $N_{ANT} \leq 4$).

For U-NII-2A, U-NII-2C, U-NII-3 Band

CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	17.03	17.15	102.346	20.10	23.86	Pass
60	5300	17.11	17.21	104.006	20.17	23.88	Pass
64	5320	17.09	17.14	102.929	20.13	23.88	Pass
100	5500	16.92	18.05	113.030	20.53	23.80	Pass
116	5580	16.68	17.83	107.233	20.30	23.81	Pass
140	5700	14.93	15.55	67.009	18.26	23.83	Pass
149	5745	16.09	16.13	81.664	19.12	30.00	Pass
157	5785	16.92	17.21	101.806	20.08	30.00	Pass
165	5825	15.18	16.11	73.793	18.68	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(19.35) = 23.86 < 24\text{dBm}$
2. $11\text{dBm} + 10\log(19.45) = 23.88 < 24\text{dBm}$
3. $11\text{dBm} + 10\log(19.42) = 23.88 < 24\text{dBm}$
4. $11\text{dBm} + 10\log(19.48) = 23.89 < 24\text{dBm}$
5. $11\text{dBm} + 10\log(19.33) = 23.86 < 24\text{dBm}$
6. $11\text{dBm} + 10\log(19.47) = 23.89 < 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(19.36) = 23.86 < 24\text{dBm}$
2. $11\text{dBm} + 10\log(19.45) = 23.88 < 24\text{dBm}$
3. $11\text{dBm} + 10\log(19.41) = 23.88 < 24\text{dBm}$
4. $11\text{dBm} + 10\log(19.08) = 23.80 < 24\text{dBm}$
5. $11\text{dBm} + 10\log(19.13) = 23.81 < 24\text{dBm}$
6. $11\text{dBm} + 10\log(19.20) = 23.83 < 24\text{dBm}$

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	17.86	17.98	123.900	20.93	24.00	Pass
60	5300	17.29	17.65	111.790	20.48	24.00	Pass
64	5320	17.75	18.08	123.835	20.93	24.00	Pass
100	5500	17.33	18.43	123.738	20.93	24.00	Pass
116	5580	17.32	18.30	121.559	20.85	24.00	Pass
140	5700	14.92	15.48	66.364	18.22	24.00	Pass
149	5745	17.03	17.20	102.947	20.13	30.00	Pass
157	5785	17.41	17.82	115.615	20.63	30.00	Pass
165	5825	14.08	15.03	57.428	17.59	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(20.28) = 24.07 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(20.44) = 24.10 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.38) = 24.09 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(20.27) = 24.06 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(20.07) = 24.02 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(20.31) = 24.07 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(20.46) = 24.10 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(20.47) = 24.11 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.44) = 24.10 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(20.31) = 24.07 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(20.26) = 24.06 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(20.34) = 24.08 > 24\text{dBm}$

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	20.34	20.52	220.863	23.44	24.00	Pass
62	5310	15.26	15.43	68.488	18.36	24.00	Pass
102	5510	15.71	16.65	83.477	19.22	24.00	Pass
110	5550	18.92	20.18	182.215	22.61	24.00	Pass
134	5670	17.73	18.54	130.743	21.16	24.00	Pass
151	5755	17.83	17.92	122.618	20.89	30.00	Pass
159	5795	17.38	18.06	118.675	20.74	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(41.40) = 27.17 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(40.85) = 27.11 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(40.55) = 27.07 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(40.89) = 27.11 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(40.64) = 27.08 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(41.42) = 27.17 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(40.70) = 27.09 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(40.72) = 27.09 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.20) = 27.14 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(40.99) = 27.12 > 24\text{dBm}$

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	13.74	13.83	47.814	16.80	24.00	Pass
106	5530	14.51	15.75	65.833	18.18	24.00	Pass
122	5610	19.03	20.16	183.736	22.64	24.00	Pass
155	5775	19.76	20.17	198.616	22.98	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(83.54) = 30.21 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(85.68) = 30.32 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(84.42) = 30.26 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(83.14) = 30.19 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(86.50) = 30.37 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(85.93) = 30.34 > 24\text{dBm}$

Beamforming Mode

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	17.86	17.98	123.900	20.93	21.99	Pass
60	5300	17.29	17.65	111.790	20.48	21.99	Pass
64	5320	17.75	18.08	123.835	20.93	21.99	Pass
100	5500	17.33	18.43	123.738	20.93	21.29	Pass
116	5580	17.32	18.30	121.559	20.85	21.29	Pass
140	5700	14.92	15.48	66.364	18.22	21.29	Pass
149	5745	17.03	17.20	102.947	20.13	26.99	Pass
157	5785	17.41	17.82	115.615	20.63	26.99	Pass
165	5825	14.08	15.03	57.428	17.59	26.99	Pass

Note:

For U-NII-2A: Directional Gain = $5.0 + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $24 - (8.01 - 6) = 21.99\text{dBm}$.

For U-NII-2C: Directional Gain = $5.7 + 10\log(2) = 8.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $24 - (8.71 - 6) = 21.29\text{dBm}$.

For U-NII-3: Directional Gain = $6.0 + 10\log(2) = 9.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (9.01 - 6) = 26.99\text{dBm}$.

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(20.28) = 24.07 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(20.44) = 24.10 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.38) = 24.09 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(20.27) = 24.06 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(20.07) = 24.02 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(20.31) = 24.07 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(20.46) = 24.10 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(20.47) = 24.11 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.44) = 24.10 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(20.31) = 24.07 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(20.26) = 24.06 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(20.34) = 24.08 > 24\text{dBm}$

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	18.84	19.02	156.359	21.94	21.99	Pass
62	5310	15.26	15.43	68.488	18.36	21.99	Pass
102	5510	15.71	16.65	83.477	19.22	21.29	Pass
110	5550	17.42	18.68	128.998	21.11	21.29	Pass
134	5670	17.73	18.54	130.743	21.16	21.29	Pass
151	5755	17.83	17.92	122.618	20.89	26.99	Pass
159	5795	17.38	18.06	118.675	20.74	26.99	Pass

Note:

For U-NII-2A: Directional Gain = $5.0 + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $24 - (8.01 - 6) = 21.99\text{dBm}$.

For U-NII-2C: Directional Gain = $5.7 + 10\log(2) = 8.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $24 - (8.71 - 6) = 21.29\text{dBm}$.

For U-NII-3: Directional Gain = $6.0 + 10\log(2) = 9.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (9.01 - 6) = 26.99\text{dBm}$.

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(41.40) = 27.17 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(40.85) = 27.11 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(40.55) = 27.07 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(40.89) = 27.11 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(40.64) = 27.08 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(41.42) = 27.17 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(40.70) = 27.09 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(40.72) = 27.09 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.20) = 27.14 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(40.99) = 27.12 > 24\text{dBm}$

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	13.74	13.83	47.814	16.80	21.99	Pass
106	5530	14.51	15.75	65.833	18.18	21.29	Pass
122	5610	17.53	18.66	130.075	21.14	21.29	Pass
155	5775	19.76	20.17	198.616	22.98	26.99	Pass

Note:

For U-NII-2A: Directional Gain = $5.0 + 10\log(2) = 8.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $24 - (8.01 - 6) = 21.99\text{dBm}$.

For U-NII-2C: Directional Gain = $5.7 + 10\log(2) = 8.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $24 - (8.71 - 6) = 21.29\text{dBm}$.

For U-NII-3: Directional Gain = $6.0 + 10\log(2) = 9.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (9.01 - 6) = 26.99\text{dBm}$.

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(83.54) = 30.21 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(85.68) = 30.32 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(84.42) = 30.26 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(83.14) = 30.19 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(86.50) = 30.37 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(85.93) = 30.34 > 24\text{dBm}$

Test Mode B

Power Output:

For U-NII-1 Band (Outdoor Access Point)

CDD Mode

802.11a

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	4.88	5.78	6.860	8.36	25.45	10.55	18.91	21.00	Pass
40	5200	4.85	5.87	6.919	8.40	25.45	10.55	18.95	21.00	Pass
48	5240	5.02	5.77	6.953	8.42	25.45	10.55	18.97	21.00	Pass

Note:

1. Gain = 10.55dBi > 6dBi, so the limit shall be reduced to $30 - (10.55 - 6) = 25.45$ dBm.
2. Gain = 10.55dBi (above 30 degrees from the horizon).
3. EIRP = conducted power + (10.55dBi) + array gain (0 dB (i.e., no array gain) for $N_{ANT} \leq 4$)

802.11ac (VHT20)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	4.85	5.82	6.874	8.37	25.45	10.55	18.92	21.00	Pass
40	5200	4.79	5.83	6.841	8.35	25.45	10.55	18.90	21.00	Pass
48	5240	5.07	5.72	6.947	8.42	25.45	10.55	18.97	21.00	Pass

Note:

1. Gain = 10.55dBi > 6dBi, so the limit shall be reduced to $30 - (10.55 - 6) = 25.45$ dBm.
2. Gain = 10.55dBi (above 30 degrees from the horizon).
3. EIRP = conducted power + (10.55dBi) + array gain (0 dB (i.e., no array gain) for $N_{ANT} \leq 4$)

802.11ac (VHT40)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
38	5190	4.46	5.76	6.560	8.17	25.45	10.55	18.72	21.00	Pass
46	5230	4.86	5.81	6.873	8.37	25.45	10.55	18.92	21.00	Pass

Note:

1. Gain = 10.55dBi > 6dBi, so the limit shall be reduced to $30 - (10.55 - 6) = 25.45$ dBm.
2. Gain = 10.55dBi (above 30 degrees from the horizon).
3. EIRP = conducted power + (10.55dBi) + array gain (0 dB (i.e., no array gain) for $N_{ANT} \leq 4$)

802.11ac (VHT80)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
42	5210	4.72	5.68	6.663	8.24	25.45	10.55	18.79	21.00	Pass

Note:

1. Gain = 10.55dBi > 6dBi, so the limit shall be reduced to $30 - (10.55 - 6) = 25.45$ dBm.
2. Gain = 10.55dBi (above 30 degrees from the horizon).
3. EIRP = conducted power + (10.55dBi) + array gain (0 dB (i.e., no array gain) for $N_{ANT} \leq 4$)

Beamforming Mode

802.11ac (VHT20)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	1.85	2.82	3.445	5.37	22.44	13.56	18.93	21.00	Pass
40	5200	1.79	2.83	3.429	5.35	22.44	13.56	18.91	21.00	Pass
48	5240	1.57	2.22	3.102	4.92	22.44	13.56	18.48	21.00	Pass

Note:

1. Gain = 10.55dBi + 10log(2) = 13.56dBi > 6dBi, so the limit shall be reduced to 30-(13.56-6) = 22.44dBm.
2. Gain = 10.55dBi (above 30 degrees from the horizon).
3. EIRP = conducted power + (10.55dBi) + array gain (3.01dBi) (0 dB (i.e., no array gain) for $N_{ANT} \leq 4$).

802.11ac (VHT40)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
38	5190	1.46	2.76	3.288	5.17	22.44	13.56	18.73	21.00	Pass
46	5230	1.86	2.81	3.445	5.37	22.44	13.56	18.93	21.00	Pass

Note:

1. Gain = 10.55dBi + 10log(2) = 13.56dBi > 6dBi, so the limit shall be reduced to 30-(13.56-6) = 22.44dBm.
2. Gain = 10.55dBi (above 30 degrees from the horizon).
3. EIRP = conducted power + (10.55dBi) + array gain (3.01dBi) (0 dB (i.e., no array gain) for $N_{ANT} \leq 4$).

802.11ac (VHT80)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
42	5210	1.72	2.68	3.340	5.24	22.44	13.56	18.80	21.00	Pass

Note:

1. Gain = 10.55dBi + 10log(2) = 13.56dBi > 6dBi, so the limit shall be reduced to 30-(13.56-6) = 22.44dBm.
2. Gain = 10.55dBi (above 30 degrees from the horizon).
3. EIRP = conducted power + (10.55dBi) + array gain (3.01dBi) (0 dB (i.e., no array gain) for $N_{ANT} \leq 4$).

For U-NII-2A, U-NII-2C, U-NII-3 Band

CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	11.23	11.39	27.046	14.32	18.66	Pass
60	5300	11.21	11.37	26.922	14.30	18.67	Pass
64	5320	11.19	11.46	27.148	14.34	18.66	Pass
100	5500	11.15	11.49	27.125	14.33	18.31	Pass
116	5580	11.22	11.43	27.143	14.34	18.33	Pass
140	5700	11.17	11.51	27.250	14.35	18.31	Pass
149	5745	15.26	16.48	78.037	18.92	24.50	Pass
157	5785	16.25	17.79	102.287	20.10	24.50	Pass
165	5825	15.12	16.64	78.641	18.96	24.50	Pass

For Ch 52: Gain = 11.20dBi > 6dBi, so the limit shall be reduced to 23.86-(11.20-6) = 18.66dBm.

For Ch 60: Gain = 11.20dBi > 6dBi, so the limit shall be reduced to 23.87-(11.20-6) = 18.67dBm.

For Ch 64: Gain = 11.20dBi > 6dBi, so the limit shall be reduced to 23.86-(11.20-6) = 18.66dBm.

For Ch 100: Gain = 11.50dBi > 6dBi, so the limit shall be reduced to 23.81-(11.50-6) = 18.31dBm.

For Ch 116: Gain = 11.50dBi > 6dBi, so the limit shall be reduced to 23.83-(11.50-6) = 18.33dBm.

For Ch 140: Gain = 11.50dBi > 6dBi, so the limit shall be reduced to 23.81-(11.50-6) = 18.31dBm.

For U-NII-3: Gain = 11.50dBi > 6dBi, so the limit shall be reduced to 30-(11.50-6) = 24.50dBm.

* Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:

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

Chain 0

1. 11dBm + 10log (19.43) = 23.88 < 24dBm
2. 11dBm + 10log (19.44) = 23.88 < 24dBm
3. 11dBm + 10log (19.44) = 23.88 < 24dBm
4. 11dBm + 10log (19.49) = 23.89 < 24dBm
5. 11dBm + 10log (19.43) = 23.88 < 24dBm
6. 11dBm + 10log (19.42) = 23.88 < 24dBm

Chain 1

1. 11dBm + 10log (19.35) = 23.86 < 24dBm
2. 11dBm + 10log (19.38) = 23.87 < 24dBm
3. 11dBm + 10log (19.32) = 23.86 < 24dBm
4. 11dBm + 10log (19.14) = 23.81 < 24dBm
5. 11dBm + 10log (19.20) = 23.83 < 24dBm
6. 11dBm + 10log (19.12) = 23.81 < 24dBm

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	11.26	11.42	27.234	14.35	18.80	Pass
60	5300	11.23	11.39	27.046	14.32	18.80	Pass
64	5320	11.21	11.49	27.306	14.36	18.80	Pass
100	5500	10.43	10.52	22.313	13.49	18.50	Pass
116	5580	10.41	10.56	22.366	13.50	18.50	Pass
140	5700	10.48	10.58	22.598	13.54	18.50	Pass
149	5745	15.22	16.61	79.080	18.98	24.50	Pass
157	5785	16.12	17.67	99.405	19.97	24.50	Pass
165	5825	14.13	15.68	62.865	17.98	24.50	Pass

For U-NII-2A: Gain = 11.20dBi > 6dBi, so the limit shall be reduced to 24-(11.20-6) = 18.80dBm.

For U-NII-2C: Gain = 11.50dBi > 6dBi, so the limit shall be reduced to 24-(11.50-6) = 18.50dBm.

For U-NII-3: Gain = 11.50dBi > 6dBi, so the limit shall be reduced to 30-(11.50-6) = 24.50dBm.

Note:

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

Chain 0

1. 11dBm + 10log (20.17) = 24.04 > 24dBm
2. 11dBm + 10log (20.26) = 24.06 > 24dBm
3. 11dBm + 10log (20.32) = 24.07 > 24dBm
4. 11dBm + 10log (20.30) = 24.07 > 24dBm
5. 11dBm + 10log (20.20) = 24.05 > 24dBm
6. 11dBm + 10log (20.39) = 24.09 > 24dBm

Chain 1

1. 11dBm + 10log (20.40) = 24.09 > 24dBm
2. 11dBm + 10log (20.36) = 24.08 > 24dBm
3. 11dBm + 10log (20.41) = 24.09 > 24dBm
4. 11dBm + 10log (20.23) = 24.05 > 24dBm
5. 11dBm + 10log (20.32) = 24.07 > 24dBm
6. 11dBm + 10log (20.30) = 24.07 > 24dBm

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	13.65	14.52	51.488	17.12	18.80	Pass
62	5310	12.02	13.04	36.059	15.57	18.80	Pass
102	5510	12.84	14.62	48.204	16.83	18.50	Pass
110	5550	12.91	14.72	49.191	16.92	18.50	Pass
134	5670	12.79	14.62	47.984	16.81	18.50	Pass
151	5755	17.58	18.89	134.726	21.29	24.50	Pass
159	5795	17.28	19.03	133.439	21.25	24.50	Pass

For U-NII-2A: Gain = 11.20dBi > 6dBi, so the limit shall be reduced to $24 - (11.20 - 6) = 18.80\text{dBm}$.

For U-NII-2C: Gain = 11.50dBi > 6dBi, so the limit shall be reduced to $24 - (11.50 - 6) = 18.50\text{dBm}$.

For U-NII-3: Gain = 11.50dBi > 6dBi, so the limit shall be reduced to $30 - (11.50 - 6) = 24.50\text{dBm}$.

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(40.66) = 27.09 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(40.77) = 27.10 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(40.65) = 27.09 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.04) = 27.13 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(40.45) = 27.06 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(40.76) = 27.10 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(40.89) = 27.11 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(40.68) = 27.09 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(40.78) = 27.10 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(40.90) = 27.11 > 24\text{dBm}$

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	11.46	12.38	31.294	14.95	18.80	Pass
106	5530	12.67	14.52	46.807	16.70	18.50	Pass
122	5610	12.78	14.62	47.940	16.81	18.50	Pass
155	5775	19.14	20.33	189.930	22.79	24.50	Pass

For U-NII-2A: Gain = 11.20dBi > 6dBi, so the limit shall be reduced to $24 - (11.20 - 6) = 18.80\text{dBm}$.

For U-NII-2C: Gain = 11.50dBi > 6dBi, so the limit shall be reduced to $24 - (11.50 - 6) = 18.50\text{dBm}$.

For U-NII-3: Gain = 11.50dBi > 6dBi, so the limit shall be reduced to $30 - (11.50 - 6) = 24.50\text{dBm}$.

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(83.65) = 30.22 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(86.34) = 30.36 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(87.39) = 30.41 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(83.49) = 30.21 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(87.78) = 30.43 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(86.74) = 30.38 > 24\text{dBm}$

Beamforming Mode

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	10.76	10.92	24.271	13.85	15.79	Pass
60	5300	10.73	10.89	24.104	13.82	15.79	Pass
64	5320	10.71	10.99	24.336	13.86	15.79	Pass
100	5500	10.43	10.52	22.313	13.49	15.49	Pass
116	5580	10.41	10.56	22.366	13.50	15.49	Pass
140	5700	10.48	10.58	22.598	13.54	15.49	Pass
149	5745	15.22	16.61	79.080	18.98	21.49	Pass
157	5785	15.62	17.17	88.594	19.47	21.49	Pass
165	5825	14.13	15.68	62.865	17.98	21.49	Pass

Note:

For U-NII-2A: Directional Gain = $11.20 + 10\log(2) = 14.21\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $24 - (14.21 - 6) = 15.79\text{dBm}$.

For U-NII-2C: Directional Gain = $11.50 + 10\log(2) = 14.51\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $24 - (14.51 - 6) = 15.49\text{dBm}$.

For U-NII-3: Directional Gain = $11.50 + 10\log(2) = 14.51\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (14.51 - 6) = 21.49\text{dBm}$.

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(20.17) = 24.04 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(20.26) = 24.06 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.32) = 24.07 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(20.30) = 24.07 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(20.20) = 24.05 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(20.39) = 24.09 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(20.40) = 24.09 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(20.36) = 24.08 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.41) = 24.09 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(20.23) = 24.05 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(20.32) = 24.07 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(20.30) = 24.07 > 24\text{dBm}$

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	10.65	11.52	25.805	14.12	15.79	Pass
62	5310	10.52	11.54	25.528	14.07	15.79	Pass
102	5510	9.84	11.62	24.159	13.83	15.49	Pass
110	5550	9.91	11.72	24.654	13.92	15.49	Pass
134	5670	9.79	11.62	24.049	13.81	15.49	Pass
151	5755	16.08	17.39	95.379	19.79	21.49	Pass
159	5795	15.78	17.53	94.468	19.75	21.49	Pass

Note:

For U-NII-2A: Directional Gain = $11.20 + 10\log(2) = 14.21\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $24 - (14.21 - 6) = 15.79\text{dBm}$.

For U-NII-2C: Directional Gain = $11.50 + 10\log(2) = 14.51\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $24 - (14.51 - 6) = 15.49\text{dBm}$.

For U-NII-3: Directional Gain = $11.50 + 10\log(2) = 14.51\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (14.51 - 6) = 21.49\text{dBm}$.

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(40.66) = 27.09 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(40.77) = 27.10 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(40.65) = 27.09 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.04) = 27.13 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(40.45) = 27.06 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(40.76) = 27.10 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(40.89) = 27.11 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(40.68) = 27.09 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(40.78) = 27.10 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(40.90) = 27.11 > 24\text{dBm}$

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	10.46	11.38	24.857	13.95	15.79	Pass
106	5530	9.67	11.52	23.459	13.70	15.49	Pass
122	5610	9.78	11.62	24.027	13.81	15.49	Pass
155	5775	16.14	17.33	95.190	19.79	21.49	Pass

Note:

For U-NII-2A: Directional Gain = $11.20 + 10\log(2) = 14.21\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $24 - (14.21 - 6) = 15.79\text{dBm}$.

For U-NII-2C: Directional Gain = $11.50 + 10\log(2) = 14.51\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $24 - (14.51 - 6) = 15.49\text{dBm}$.

For U-NII-3: Directional Gain = $11.50 + 10\log(2) = 14.51\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (14.51 - 6) = 21.49\text{dBm}$.

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(83.65) = 30.22 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(86.34) = 30.36 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(87.39) = 30.41 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(83.49) = 30.21 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(87.78) = 30.43 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(86.74) = 30.38 > 24\text{dBm}$

Test Mode C

Power Output:

For U-NII-1 Band (Outdoor Access Point)

CDD Mode

802.11a

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	4.88	5.78	6.860	8.36	23.43	12.57	20.93	21.00	Pass
40	5200	4.85	5.87	6.919	8.40	23.43	12.57	20.97	21.00	Pass
48	5240	5.02	5.77	6.953	8.42	23.43	12.57	20.99	21.00	Pass

Note:

1. Gain = 12.57dBi > 6dBi, so the limit shall be reduced to $30 - (12.57 - 6) = 23.43\text{dBm}$.
2. Gain = 12.57dBi (above 30 degrees from the horizon).
3. EIRP = conducted power + (12.57dBi) + array gain (0 dB (i.e., no array gain) for $N_{\text{ANT}} \leq 4$)

802.11ac (VHT20)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	4.85	5.82	6.874	8.37	23.43	12.57	20.94	21.00	Pass
40	5200	4.79	5.83	6.841	8.35	23.43	12.57	20.92	21.00	Pass
48	5240	5.07	5.72	6.947	8.42	23.43	12.57	20.99	21.00	Pass

Note:

1. Gain = 12.57dBi > 6dBi, so the limit shall be reduced to $30 - (12.57 - 6) = 23.43\text{dBm}$.
2. Gain = 12.57dBi (above 30 degrees from the horizon).
3. EIRP = conducted power + (12.57dBi) + array gain (0 dB (i.e., no array gain) for $N_{\text{ANT}} \leq 4$)

802.11ac (VHT40)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
38	5190	4.46	5.76	6.560	8.17	23.43	12.57	20.74	21.00	Pass
46	5230	4.86	5.81	6.873	8.37	23.43	12.57	20.94	21.00	Pass

Note:

1. Gain = 12.57dBi > 6dBi, so the limit shall be reduced to $30 - (12.57 - 6) = 23.43\text{dBm}$.
2. Gain = 12.57dBi (above 30 degrees from the horizon).
3. EIRP = conducted power + (12.57dBi) + array gain (0 dB (i.e., no array gain) for $N_{\text{ANT}} \leq 4$)

802.11ac (VHT80)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
42	5210	4.72	5.68	6.663	8.24	23.43	12.57	20.81	21.00	Pass

Note:

1. Gain = 12.57dBi > 6dBi, so the limit shall be reduced to $30 - (12.57 - 6) = 23.43\text{dBm}$.
2. Gain = 12.57dBi (above 30 degrees from the horizon).
3. EIRP = conducted power + (12.57dBi) + array gain (0 dB (i.e., no array gain) for $N_{\text{ANT}} \leq 4$)

Beamforming Mode

802.11ac (VHT20)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
36	5180	1.85	2.82	3.445	5.37	20.42	15.58	20.95	21.00	Pass
40	5200	1.79	2.83	3.429	5.35	20.42	15.58	20.93	21.00	Pass
48	5240	1.57	2.22	3.102	4.92	20.42	15.58	20.50	21.00	Pass

Note:

1. Gain = 12.57dBi + 10log(2) = 15.58dBi > 6dBi, so the limit shall be reduced to 30-(15.58-6) = 20.42dBm.
2. Gain = 12.57Bi (above 30 degrees from the horizon).
3. EIRP = conducted power + (12.57dBi) + array gain (3.01dBi) (0 dB (i.e., no array gain) for $N_{ANT} \leq 4$).

802.11ac (VHT40)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
38	5190	1.46	2.76	3.288	5.17	20.42	15.58	20.75	21.00	Pass
46	5230	1.86	2.81	3.445	5.37	20.42	15.58	20.95	21.00	Pass

Note:

1. Gain = 12.57dBi + 10log(2) = 15.58dBi > 6dBi, so the limit shall be reduced to 30-(15.58-6) = 20.42dBm.
2. Gain = 12.57Bi (above 30 degrees from the horizon).
3. EIRP = conducted power + (12.57dBi) + array gain (3.01dBi) (0 dB (i.e., no array gain) for $N_{ANT} \leq 4$).

802.11ac (VHT80)

Chan.	Freq. (MHz)	Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP limit (dBm)	Pass / Fail
		Chain 0	Chain 1							
42	5210	1.72	2.68	3.340	5.24	20.42	15.58	20.82	21.00	Pass

Note:

1. Gain = 12.57dBi + 10log(2) = 15.58dBi > 6dBi, so the limit shall be reduced to 30-(15.58-6) = 20.42dBm.
2. Gain = 12.57Bi (above 30 degrees from the horizon).
3. EIRP = conducted power + (12.57dBi) + array gain (3.01dBi) (0 dB (i.e., no array gain) for $N_{ANT} \leq 4$).

For U-NII-2A, U-NII-2C, U-NII-3 Band

CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	11.23	11.39	27.046	14.32	17.16	Pass
60	5300	11.21	11.37	26.922	14.30	17.17	Pass
64	5320	11.19	11.46	27.148	14.34	17.16	Pass
100	5500	11.15	11.49	27.125	14.33	16.81	Pass
116	5580	11.22	11.43	27.143	14.34	16.83	Pass
140	5700	11.17	11.51	27.250	14.35	16.81	Pass
149	5745	15.26	16.48	78.037	18.92	22.90	Pass
157	5785	16.25	17.79	102.287	20.10	22.90	Pass
165	5825	15.12	16.64	78.641	18.96	22.90	Pass

For Ch 52: Gain = 12.7dBi > 6dBi, so the limit shall be reduced to 23.86-(12.7-6) = 17.16dBm.

For Ch 60: Gain = 12.7dBi > 6dBi, so the limit shall be reduced to 23.87-(12.7-6) = 17.17dBm.

For Ch 64: Gain = 12.7dBi > 6dBi, so the limit shall be reduced to 23.86-(12.7-6) = 17.16dBm.

For Ch 100: Gain = 13.0dBi > 6dBi, so the limit shall be reduced to 23.81-(13.0-6) = 16.81dBm.

For Ch 116: Gain = 13.0dBi > 6dBi, so the limit shall be reduced to 23.83-(13.0-6) = 16.83dBm.

For Ch 140: Gain = 13.0dBi > 6dBi, so the limit shall be reduced to 23.81-(13.0-6) = 16.81dBm.

For U-NII-3: Gain = 13.1dBi > 6dBi, so the limit shall be reduced to 30-(13.1-6) = 22.90dBm.

* Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:

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

Chain 0

1. 11dBm + 10log (19.43) = 23.88 < 24dBm
2. 11dBm + 10log (19.44) = 23.88 < 24dBm
3. 11dBm + 10log (19.44) = 23.88 < 24dBm
4. 11dBm + 10log (19.49) = 23.89 < 24dBm
5. 11dBm + 10log (19.43) = 23.88 < 24dBm
6. 11dBm + 10log (19.42) = 23.88 < 24dBm

Chain 1

1. 11dBm + 10log (19.35) = 23.86 < 24dBm
2. 11dBm + 10log (19.38) = 23.87 < 24dBm
3. 11dBm + 10log (19.32) = 23.86 < 24dBm
4. 11dBm + 10log (19.14) = 23.81 < 24dBm
5. 11dBm + 10log (19.20) = 23.83 < 24dBm
6. 11dBm + 10log (19.12) = 23.81 < 24dBm

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	11.26	11.42	27.234	14.35	17.30	Pass
60	5300	11.23	11.39	27.046	14.32	17.30	Pass
64	5320	11.21	11.49	27.306	14.36	17.30	Pass
100	5500	10.43	10.52	22.313	13.49	17.00	Pass
116	5580	10.41	10.56	22.366	13.50	17.00	Pass
140	5700	10.48	10.58	22.598	13.54	17.00	Pass
149	5745	15.22	16.61	79.080	18.98	22.90	Pass
157	5785	16.12	17.67	99.405	19.97	22.90	Pass
165	5825	14.13	15.68	62.865	17.98	22.90	Pass

For U-NII-2A: Gain = 12.7dBi > 6dBi, so the limit shall be reduced to 24-(12.7-6) = 17.30dBm.

For U-NII-2C: Gain = 13.0dBi > 6dBi, so the limit shall be reduced to 24-(13.0-6) = 17.00dBm.

For U-NII-3: Gain = 13.1dBi > 6dBi, so the limit shall be reduced to 30-(13.1-6) = 22.90dBm.

Note:

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

Chain 0

1. 11dBm + 10log (20.17) = 24.04 > 24dBm
2. 11dBm + 10log (20.26) = 24.06 > 24dBm
3. 11dBm + 10log (20.32) = 24.07 > 24dBm
4. 11dBm + 10log (20.30) = 24.07 > 24dBm
5. 11dBm + 10log (20.20) = 24.05 > 24dBm
6. 11dBm + 10log (20.39) = 24.09 > 24dBm

Chain 1

1. 11dBm + 10log (20.40) = 24.09 > 24dBm
2. 11dBm + 10log (20.36) = 24.08 > 24dBm
3. 11dBm + 10log (20.41) = 24.09 > 24dBm
4. 11dBm + 10log (20.23) = 24.05 > 24dBm
5. 11dBm + 10log (20.32) = 24.07 > 24dBm
6. 11dBm + 10log (20.30) = 24.07 > 24dBm

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	13.65	14.52	51.488	17.12	17.30	Pass
62	5310	12.02	13.04	36.059	15.57	17.30	Pass
102	5510	12.84	14.62	48.204	16.83	17.00	Pass
110	5550	12.91	14.72	49.191	16.92	17.00	Pass
134	5670	12.79	14.62	47.984	16.81	17.00	Pass
151	5755	17.58	18.89	134.726	21.29	22.90	Pass
159	5795	17.28	19.03	133.439	21.25	22.90	Pass

For U-NII-2A: Gain = 12.7dBi > 6dBi, so the limit shall be reduced to 24-(12.7-6) = 17.30dBm.

For U-NII-2C: Gain = 13.0dBi > 6dBi, so the limit shall be reduced to 24-(13.0-6) = 17.00dBm.

For U-NII-3: Gain = 13.1dBi > 6dBi, so the limit shall be reduced to 30-(13.1-6) = 22.90dBm.

Note:

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

Chain 0

1. 11dBm + 10log (40.66) = 27.09 > 24dBm
2. 11dBm + 10log (40.77) = 27.10 > 24dBm
3. 11dBm + 10log (40.65) = 27.09 > 24dBm
4. 11dBm + 10log (41.04) = 27.13 > 24dBm
5. 11dBm + 10log (40.45) = 27.06 > 24dBm

Chain 1

1. 11dBm + 10log (40.76) = 27.10 > 24dBm
2. 11dBm + 10log (40.89) = 27.11 > 24dBm
3. 11dBm + 10log (40.68) = 27.09 > 24dBm
4. 11dBm + 10log (40.78) = 27.10 > 24dBm
5. 11dBm + 10log (40.90) = 27.11 > 24dBm

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	11.46	12.38	31.294	14.95	17.30	Pass
106	5530	12.67	14.52	46.807	16.70	17.00	Pass
122	5610	12.78	14.62	47.940	16.81	17.00	Pass
155	5775	19.14	20.33	189.930	22.79	22.90	Pass

For U-NII-2A: Gain = 12.7dBi > 6dBi, so the limit shall be reduced to $24 - (12.7 - 6) = 17.30\text{dBm}$.

For U-NII-2C: Gain = 13.0dBi > 6dBi, so the limit shall be reduced to $24 - (13.0 - 6) = 17.00\text{dBm}$.

For U-NII-3: Gain = 13.1dBi > 6dBi, so the limit shall be reduced to $30 - (13.1 - 6) = 22.90\text{dBm}$.

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(83.65) = 30.22 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(86.34) = 30.36 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(87.39) = 30.41 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(83.49) = 30.21 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(87.78) = 30.43 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(86.74) = 30.38 > 24\text{dBm}$

Beamforming Mode

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	10.76	10.92	24.271	13.85	14.29	Pass
60	5300	10.73	10.89	24.104	13.82	14.29	Pass
64	5320	10.71	10.99	24.336	13.86	14.29	Pass
100	5500	10.43	10.52	22.313	13.49	13.99	Pass
116	5580	10.41	10.56	22.366	13.50	13.99	Pass
140	5700	10.48	10.58	22.598	13.54	13.99	Pass
149	5745	15.22	16.61	79.080	18.98	19.89	Pass
157	5785	15.62	17.17	88.594	19.47	19.89	Pass
165	5825	14.13	15.68	62.865	17.98	19.89	Pass

Note:

For U-NII-2A: Directional Gain = $12.7 + 10\log(2) = 15.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $24 - (15.71 - 6) = 14.29\text{dBm}$.

For U-NII-2C: Directional Gain = $13.0 + 10\log(2) = 16.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $24 - (16.01 - 6) = 13.99\text{dBm}$.

For U-NII-3: Directional Gain = $13.1 + 10\log(2) = 16.11\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (16.11 - 6) = 19.89\text{dBm}$.

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(20.17) = 24.04 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(20.26) = 24.06 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.32) = 24.07 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(20.30) = 24.07 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(20.20) = 24.05 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(20.39) = 24.09 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(20.40) = 24.09 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(20.36) = 24.08 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.41) = 24.09 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(20.23) = 24.05 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(20.32) = 24.07 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(20.30) = 24.07 > 24\text{dBm}$

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	10.65	11.52	25.805	14.12	14.29	Pass
62	5310	10.52	11.54	25.528	14.07	14.29	Pass
102	5510	9.84	11.62	24.159	13.83	13.99	Pass
110	5550	9.91	11.72	24.654	13.92	13.99	Pass
134	5670	9.79	11.62	24.049	13.81	13.99	Pass
151	5755	16.08	17.39	95.379	19.79	19.89	Pass
159	5795	15.78	17.53	94.468	19.75	19.89	Pass

Note:

For U-NII-2A: Directional Gain = $12.7 + 10\log(2) = 15.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $24 - (15.71 - 6) = 14.29\text{dBm}$.

For U-NII-2C: Directional Gain = $13.0 + 10\log(2) = 16.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $24 - (16.01 - 6) = 13.99\text{dBm}$.

For U-NII-3: Directional Gain = $13.1 + 10\log(2) = 16.11\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (16.11 - 6) = 19.89\text{dBm}$.

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(40.66) = 27.09 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(40.77) = 27.10 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(40.65) = 27.09 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.04) = 27.13 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(40.45) = 27.06 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(40.76) = 27.10 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(40.89) = 27.11 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(40.68) = 27.09 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(40.78) = 27.10 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(40.90) = 27.11 > 24\text{dBm}$

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	10.46	11.38	24.857	13.95	14.29	Pass
106	5530	9.67	11.52	23.459	13.70	13.99	Pass
122	5610	9.78	11.62	24.027	13.81	13.99	Pass
155	5775	16.14	17.33	95.190	19.79	19.89	Pass

Note:

For U-NII-2A: Directional Gain = $12.7 + 10\log(2) = 15.71\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $24 - (15.71 - 6) = 14.29\text{dBm}$.

For U-NII-2C: Directional Gain = $13.0 + 10\log(2) = 16.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $24 - (16.01 - 6) = 13.99\text{dBm}$.

For U-NII-3: Directional Gain = $13.1 + 10\log(2) = 16.11\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $30 - (16.11 - 6) = 19.89\text{dBm}$.

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(83.65) = 30.22 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(86.34) = 30.36 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(87.39) = 30.41 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(83.49) = 30.21 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(87.78) = 30.43 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(86.74) = 30.38 > 24\text{dBm}$

26dB Bandwidth:

Test Mode A

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.35	19.36
60	5300	19.45	19.45
64	5320	19.42	19.41
100	5500	19.48	19.08
116	5580	19.33	19.13
140	5700	19.47	19.20

802.11ac (VHT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.28	20.46
60	5300	20.44	20.47
64	5320	20.38	20.44
100	5500	20.27	20.31
116	5580	20.07	20.26
140	5700	20.31	20.34

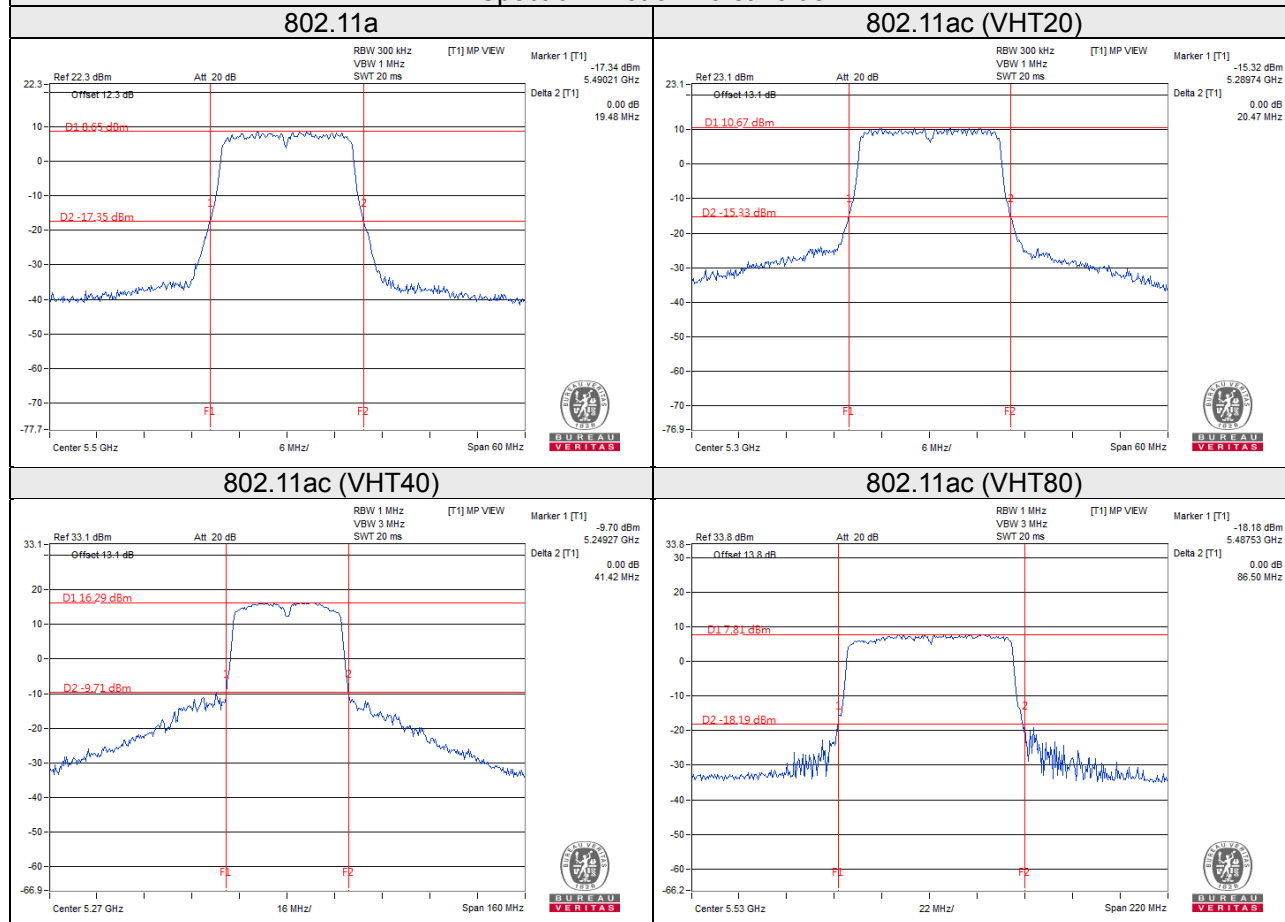
802.11ac (VHT40)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	41.40	41.42
62	5310	40.85	40.70
102	5510	40.55	40.72
110	5550	40.89	41.20
134	5670	40.64	40.99

802.11ac (VHT80)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	83.54	83.14
106	5530	85.68	86.50
122	5610	84.42	85.93

Spectrum Plot of Worst Value



Test Mode B

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.43	19.35
60	5300	19.44	19.38
64	5320	19.44	19.32
100	5500	19.49	19.14
116	5580	19.43	19.20
140	5700	19.42	19.12

802.11ac (VHT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.17	20.40
60	5300	20.26	20.36
64	5320	20.32	20.41
100	5500	20.30	20.23
116	5580	20.20	20.32
140	5700	20.39	20.30

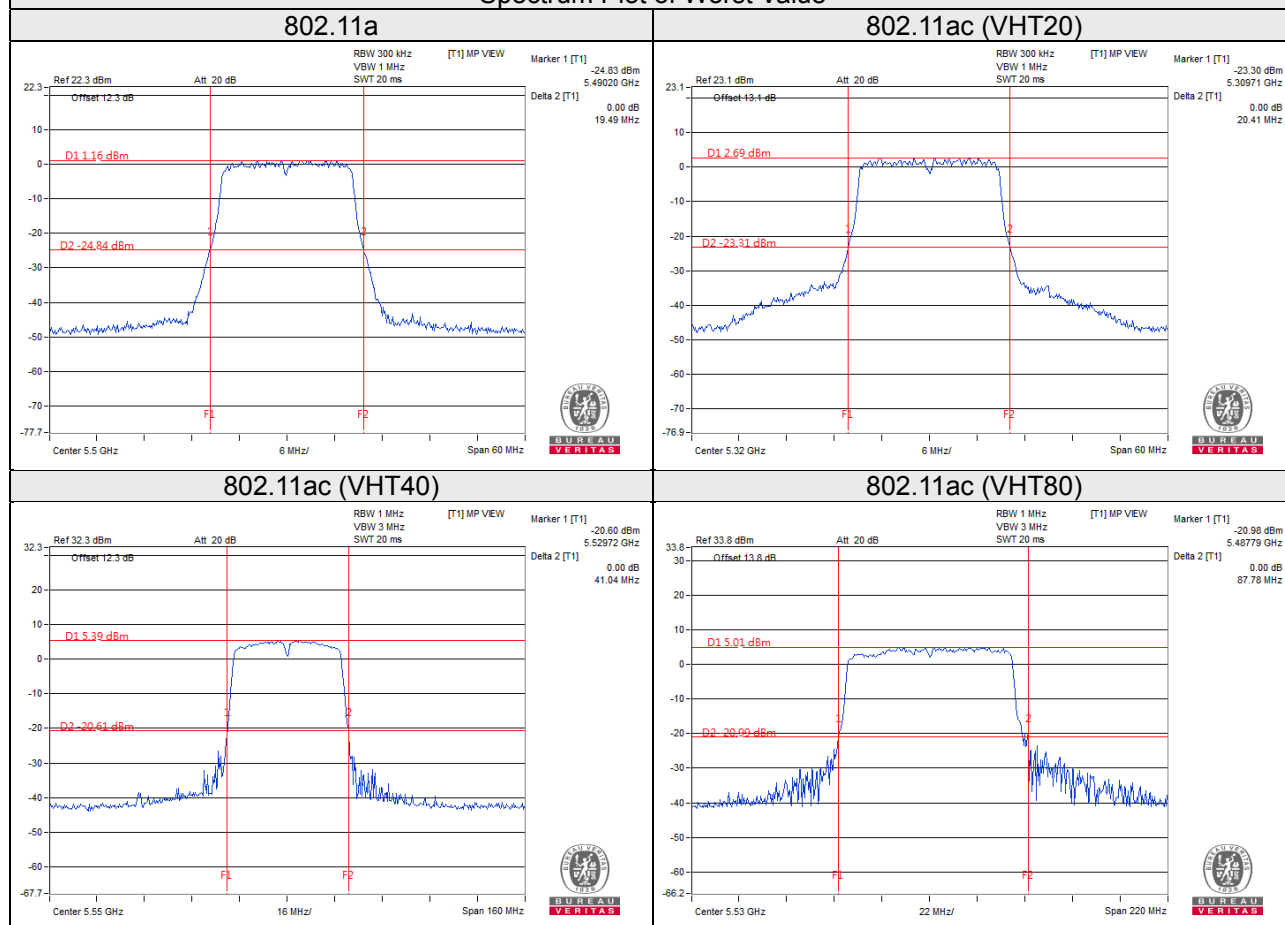
802.11ac (VHT40)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	40.66	40.76
62	5310	40.77	40.89
102	5510	40.65	40.68
110	5550	41.04	40.78
134	5670	40.45	40.90

802.11ac (VHT80)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	83.65	83.49
106	5530	86.34	87.78
122	5610	87.39	86.74

Spectrum Plot of Worst Value



Test Mode C

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.43	19.35
60	5300	19.44	19.38
64	5320	19.44	19.32
100	5500	19.49	19.14
116	5580	19.43	19.20
140	5700	19.42	19.12

802.11ac (VHT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	20.17	20.40
60	5300	20.26	20.36
64	5320	20.32	20.41
100	5500	20.30	20.23
116	5580	20.20	20.32
140	5700	20.39	20.30

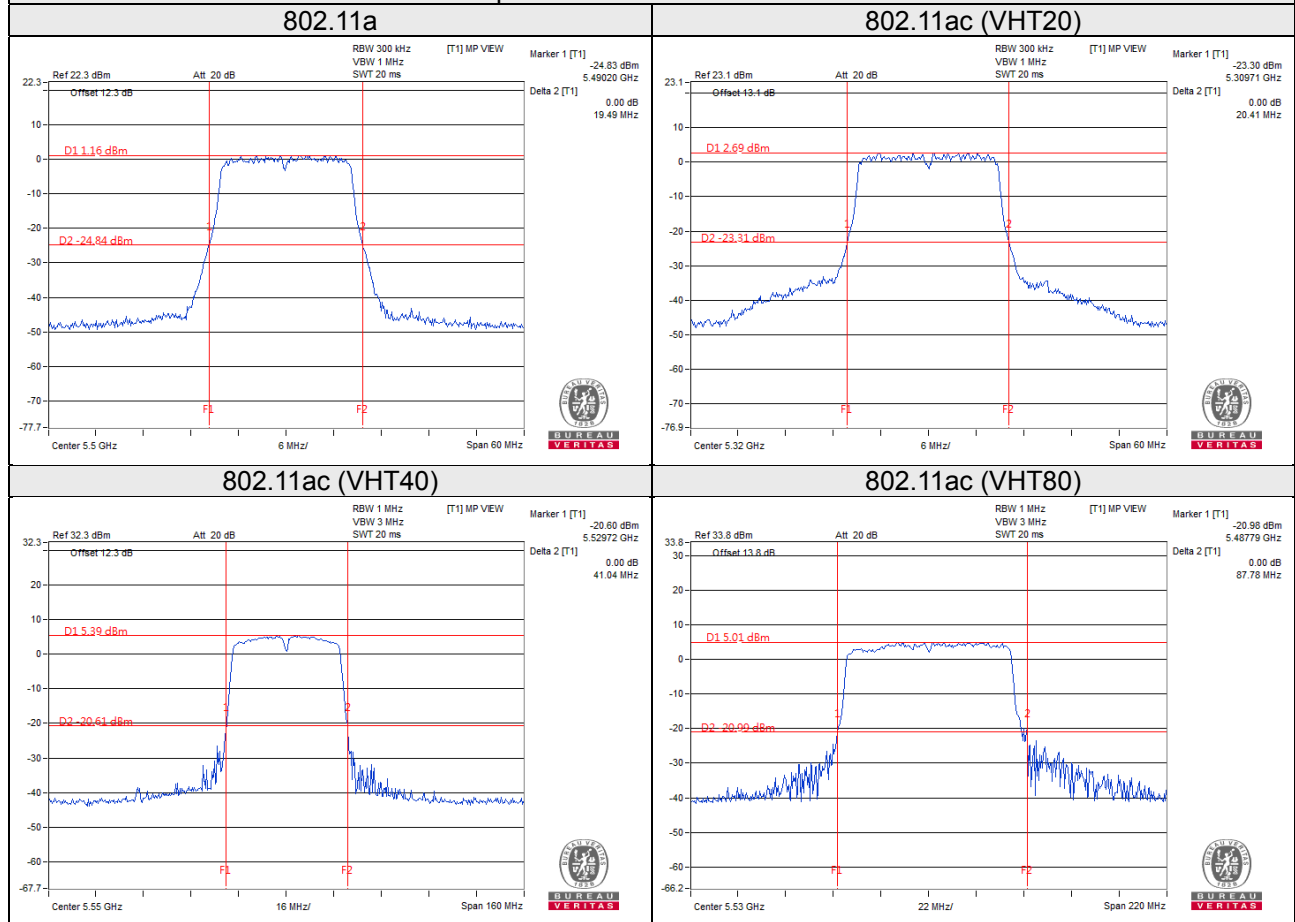
802.11ac (VHT40)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	40.66	40.76
62	5310	40.77	40.89
102	5510	40.65	40.68
110	5550	41.04	40.78
134	5670	40.45	40.90

802.11ac (VHT80)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	83.65	83.49
106	5530	86.34	87.78
122	5610	87.39	86.74

Spectrum Plot of Worst Value



EUT Maximum Conducted Power

Test Mode A

CDD Mode

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	104.006	20.17
5470~5725	113.030	20.53

802.11ac (VHT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	123.900	20.93
5470~5725	123.738	20.93

802.11ac (VHT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	220.863	23.44
5470~5725	182.215	22.61

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	47.814	16.80
5470~5725	183.736	22.64

Beamforming Mode

802.11ac (VHT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	123.900	20.93
5470~5725	123.738	20.93

802.11ac (VHT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	156.359	21.94
5470~5725	130.743	21.16

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	47.814	16.80
5470~5725	130.075	21.14

Test Mode B

CDD Mode

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	27.148	14.34
5470~5725	27.250	14.35

802.11ac (VHT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	27.306	14.36
5470~5725	22.598	13.54

802.11ac (VHT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	51.488	17.12
5470~5725	49.191	16.92

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	31.294	14.95
5470~5725	47.940	16.81

Beamforming Mode

802.11ac (VHT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	24.336	13.86
5470~5725	22.598	13.54

802.11ac (VHT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	25.805	14.12
5470~5725	24.654	13.92

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	24.857	13.95
5470~5725	24.027	13.81

Test Mode C

CDD Mode

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	27.148	14.34
5470~5725	27.250	14.35

802.11ac (VHT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	27.306	14.36
5470~5725	22.598	13.54

802.11ac (VHT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	51.488	17.12
5470~5725	49.191	16.92

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	31.294	14.95
5470~5725	47.940	16.81

Beamforming Mode

802.11ac (VHT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	24.336	13.86
5470~5725	22.598	13.54

802.11ac (VHT40)

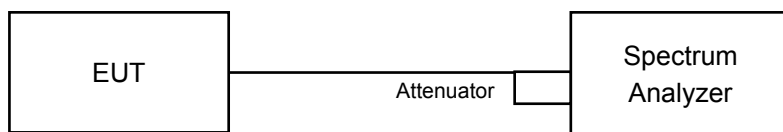
Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	25.805	14.12
5470~5725	24.654	13.92

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	24.857	13.95
5470~5725	24.027	13.81

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

Test Mode A

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.56	16.44
40	5200	16.56	16.44
48	5240	16.56	16.56
52	5260	16.43	16.52
60	5300	16.44	16.56
64	5320	16.44	16.44
100	5500	16.44	16.44
116	5580	16.44	16.44
140	5700	16.44	16.44
149	5745	16.44	16.44
157	5785	16.44	16.44
165	5825	16.44	16.44

802.11ac (VHT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.76	17.76
40	5200	17.76	17.76
48	5240	17.64	17.64
52	5260	17.64	17.76
60	5300	17.64	17.64
64	5320	17.64	17.64
100	5500	17.64	17.64
116	5580	17.52	17.64
140	5700	17.64	17.64
149	5745	17.64	17.64
157	5785	17.64	17.64
165	5825	17.64	17.64

802.11ac (VHT40)

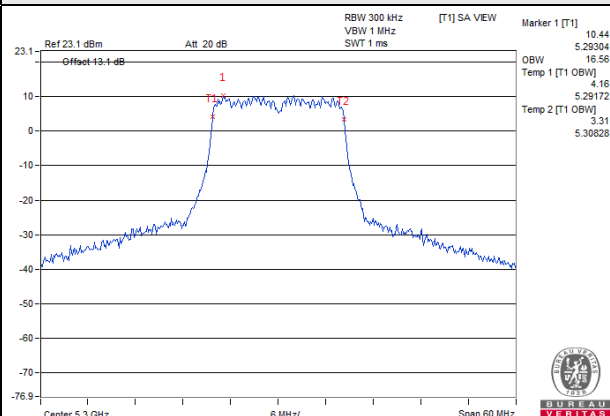
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.12	36.12
46	5230	36.12	36.00
54	5270	36.24	36.12
62	5310	36.12	36.00
102	5510	36.00	36.00
110	5550	36.12	36.12
134	5670	36.00	36.12
151	5755	36.12	36.12
159	5795	36.12	36.00

802.11ac (VHT80)

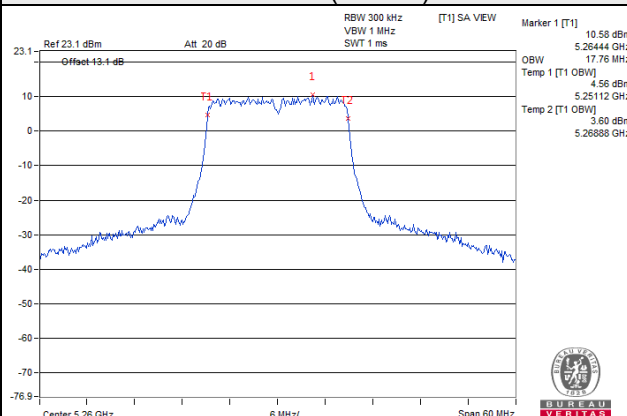
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	75.84
58	5290	75.84	75.60
106	5530	76.08	75.84
122	5610	75.84	75.84
155	5775	75.84	75.84

Spectrum Plot of Worst Value

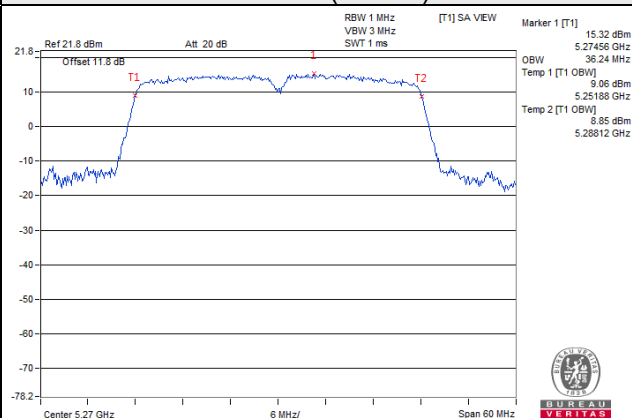
802.11a



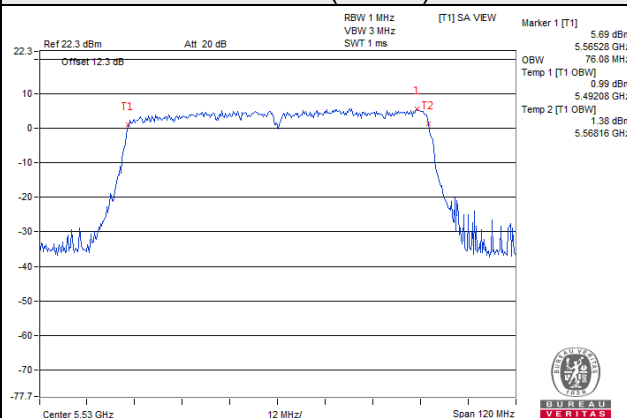
802.11ac (VHT20)



802.11ac (VHT40)

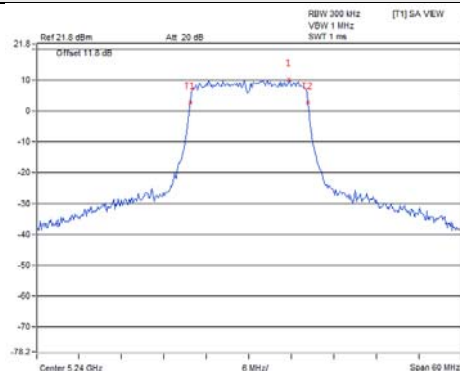


802.11ac (VHT80)

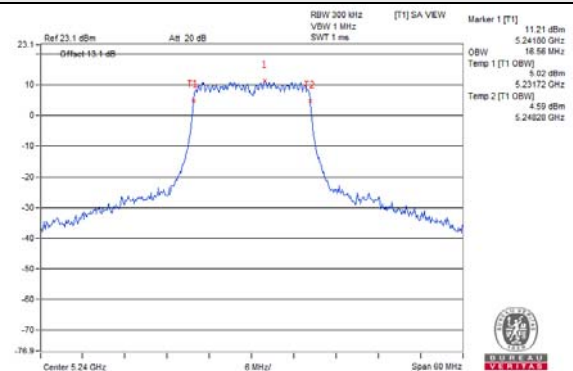


Spectrum Plot for near By DFS Band

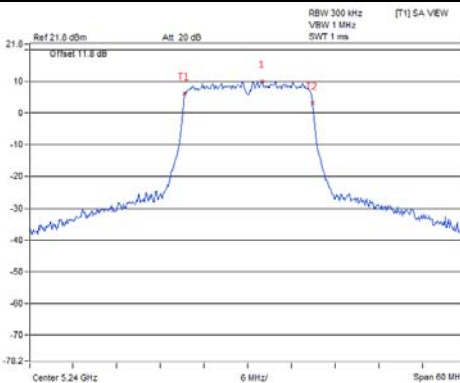
802.11a / Chain 0 / CH 48



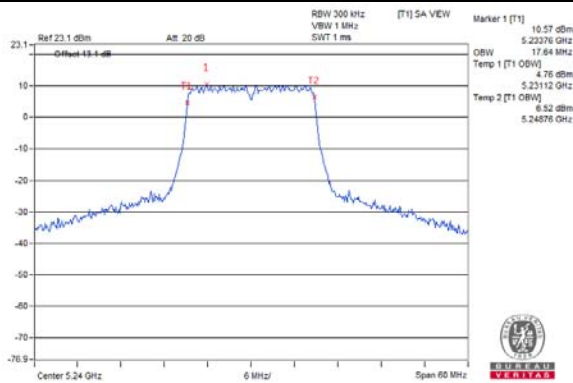
802.11a / Chain 1 / CH 48



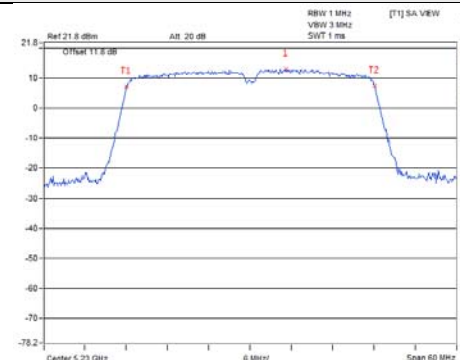
802.11ac (VHT20) / Chain 0 / CH 48



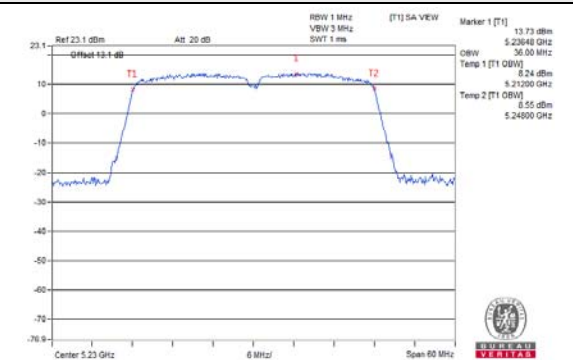
802.11ac (VHT20) / Chain 1 / CH 48



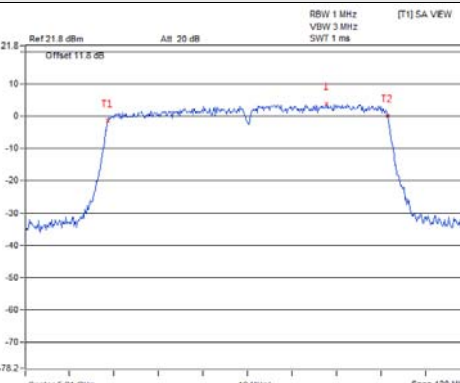
802.11ac (VHT40) / Chain 0 / CH 46



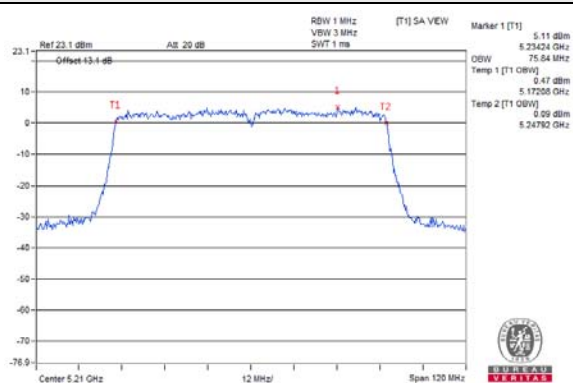
802.11ac (VHT40) / Chain 1 / CH 46



802.11ac (VHT80) / Chain 0 / CH 42

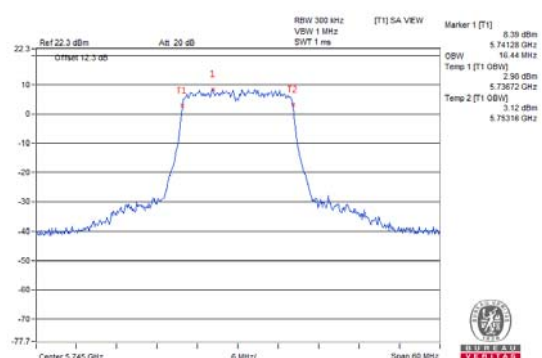


802.11ac (VHT80) / Chain 1 / CH 42

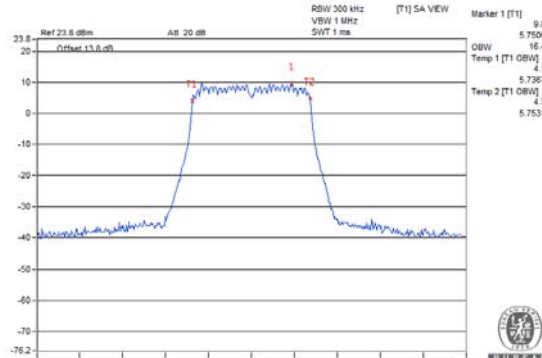


Spectrum Plot for near By DFS Band

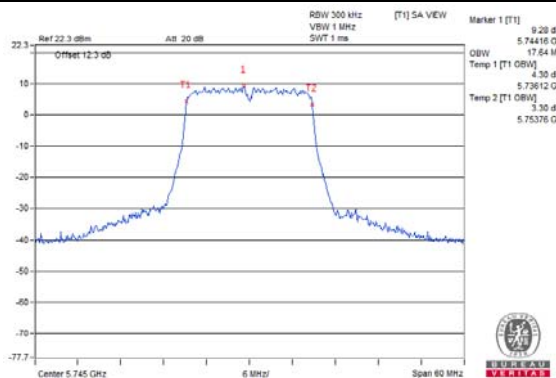
802.11a / Chain 0 / CH 149



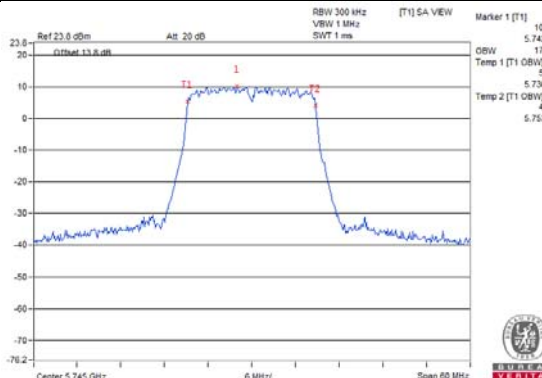
802.11a / Chain 1 / CH 149



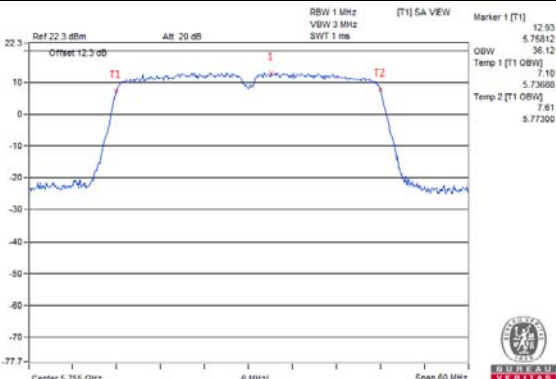
802.11ac (VHT20) / Chain 0 / CH 149



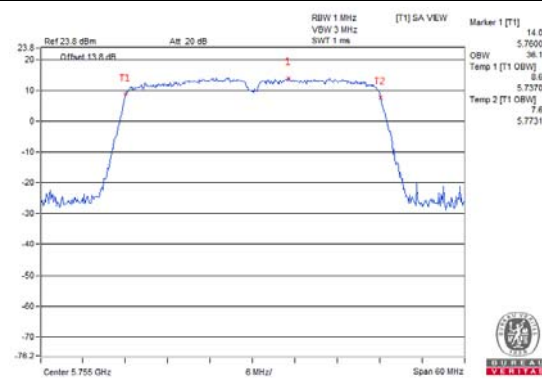
802.11ac (VHT20) / Chain 1 / CH 149



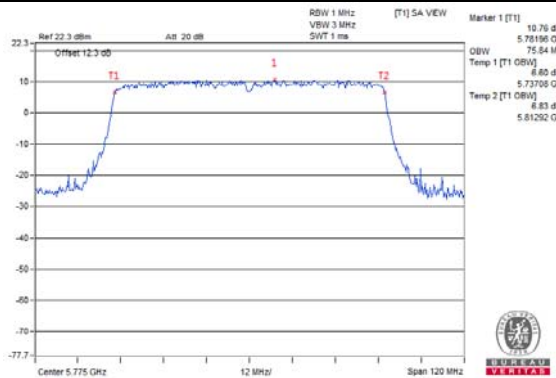
802.11ac (VHT40) / Chain 0 / CH 151



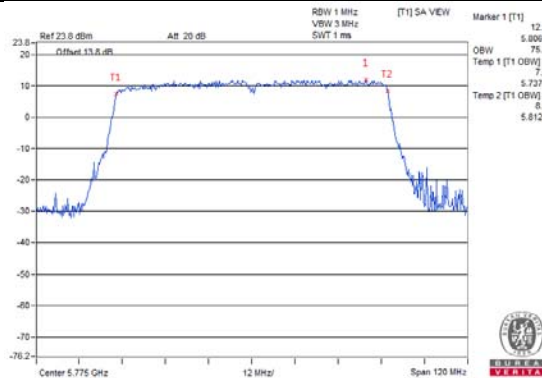
802.11ac (VHT40) / Chain 1 / CH 151



802.11ac (VHT80) / Chain 0 / CH 155



802.11ac (VHT80) / Chain 1 / CH 155



Test Mode B

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.44	16.44
40	5200	16.44	16.44
48	5240	16.44	16.44
52	5260	16.44	16.44
60	5300	16.44	16.44
64	5320	16.44	16.44
100	5500	16.44	16.44
116	5580	16.44	16.44
140	5700	16.44	16.44
149	5745	16.44	16.43
157	5785	16.44	16.44
165	5825	16.44	16.44

802.11ac (VHT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.64	17.64
40	5200	17.64	17.64
48	5240	17.64	17.64
52	5260	17.64	17.64
60	5300	17.64	17.64
64	5320	17.64	17.64
100	5500	17.64	17.64
116	5580	17.64	17.64
140	5700	17.64	17.64
149	5745	17.64	17.64
157	5785	17.64	17.64
165	5825	17.64	17.64

802.11ac (VHT40)

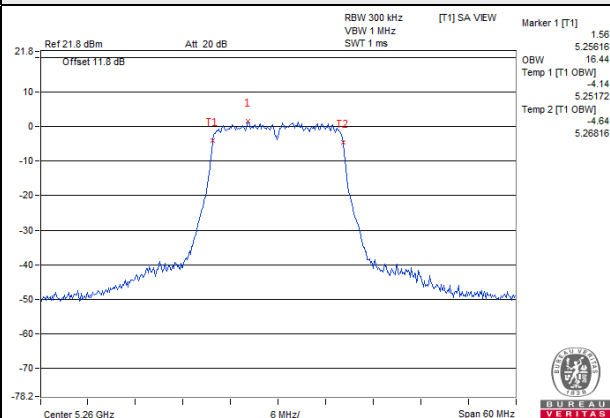
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.12	36.00
46	5230	36.12	36.00
54	5270	36.12	35.88
62	5310	36.00	36.00
102	5510	36.00	36.00
110	5550	36.12	36.12
134	5670	36.12	36.12
151	5755	36.12	36.00
159	5795	36.12	36.00

802.11ac (VHT80)

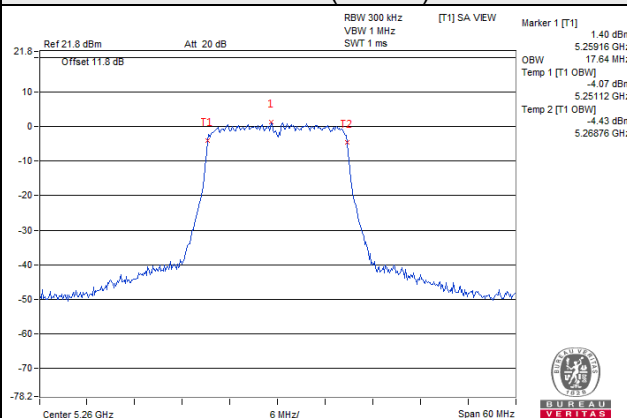
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.60	75.84
58	5290	75.84	75.84
106	5530	75.84	75.84
122	5610	75.84	75.84
155	5775	75.84	75.84

Spectrum Plot of Worst Value

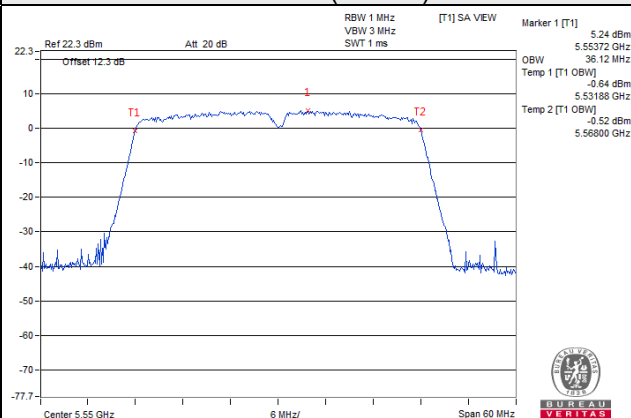
802.11a



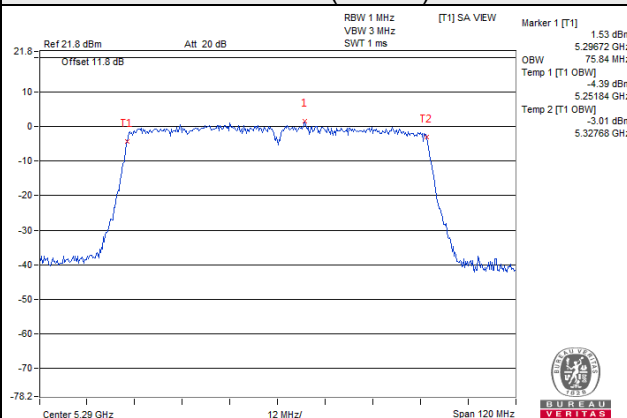
802.11ac (VHT20)



802.11ac (VHT40)

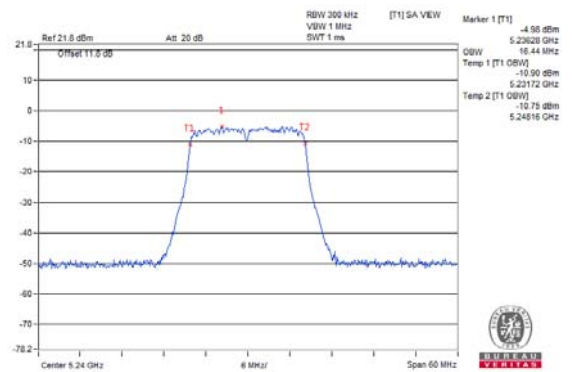


802.11ac (VHT80)

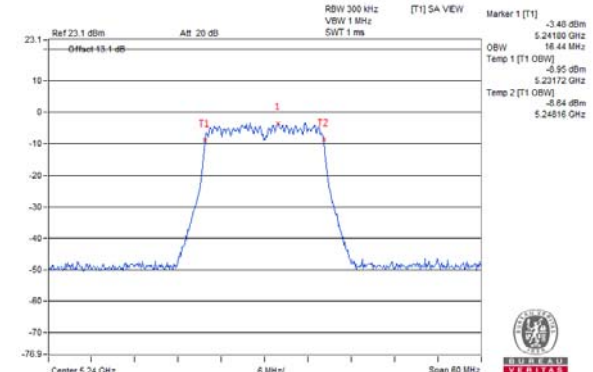


Spectrum Plot for near By DFS Band

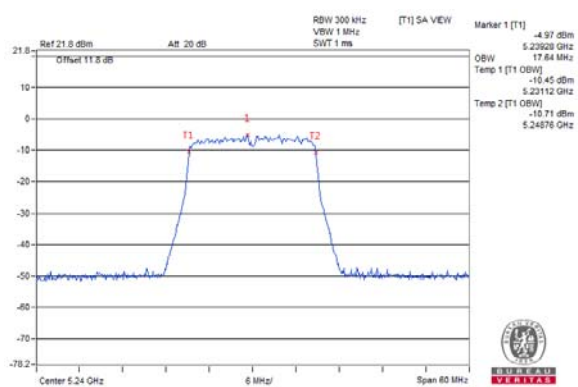
802.11a / Chain 0 / CH 48



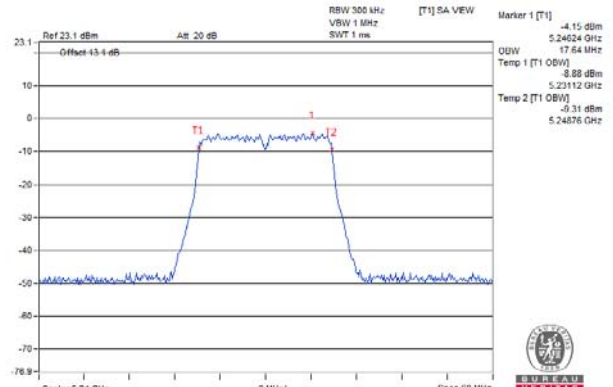
802.11a / Chain 1 / CH 48



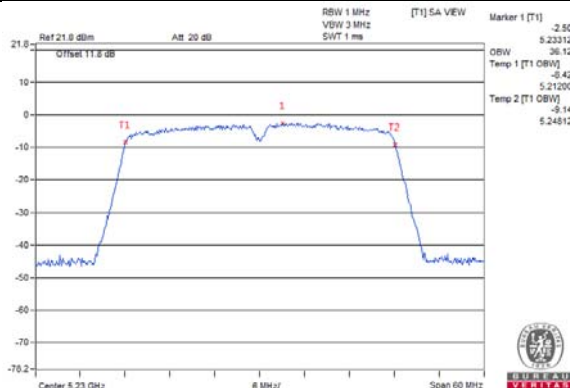
802.11ac (VHT20) / Chain 0 / CH 48



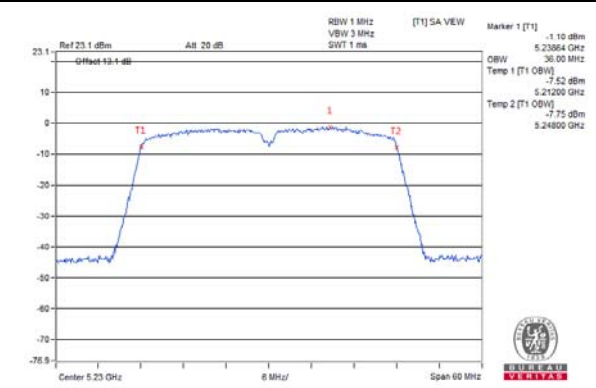
802.11ac (VHT20) / Chain 1 / CH 48



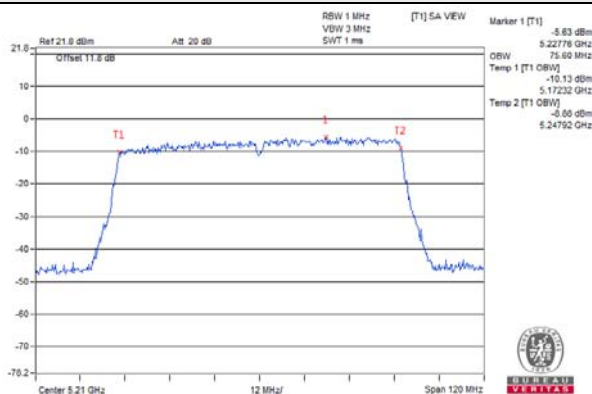
802.11ac (VHT40) / Chain 0 / CH 46



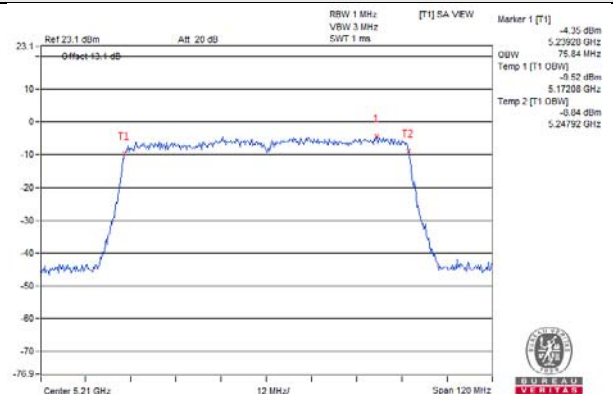
802.11ac (VHT40) / Chain 1 / CH 46



802.11ac (VHT80) / Chain 0 / CH 42

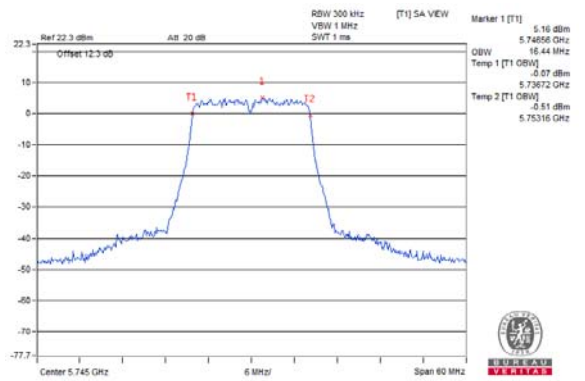


802.11ac (VHT80) / Chain 1 / CH 42

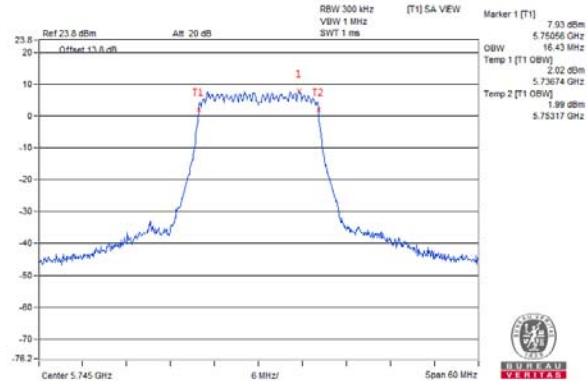


Spectrum Plot for near By DFS Band

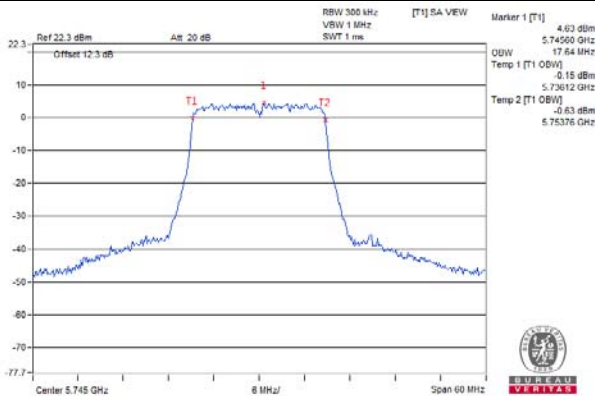
802.11a / Chain 0 / CH 149



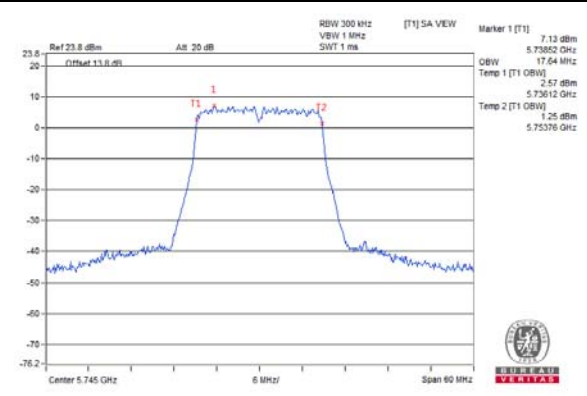
802.11a / Chain 1 / CH 149



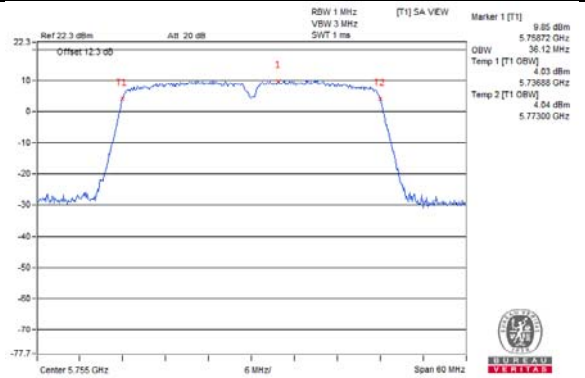
802.11ac (VHT20) / Chain 0 / CH 149



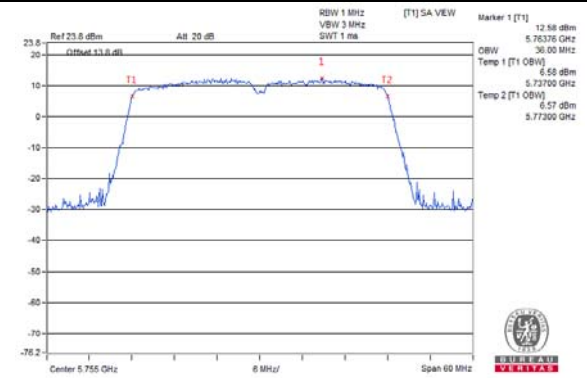
802.11ac (VHT20) / Chain 1 / CH 149



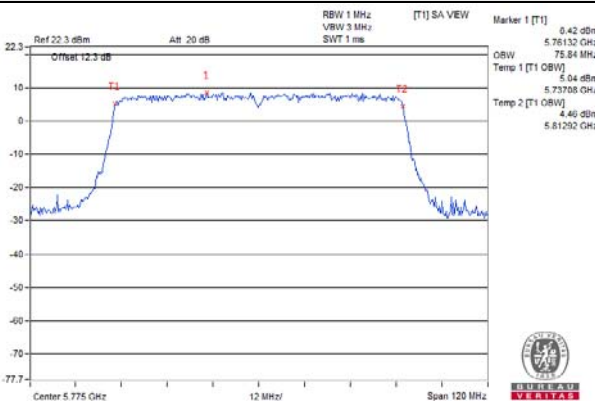
802.11ac (VHT40) / Chain 0 / CH 151



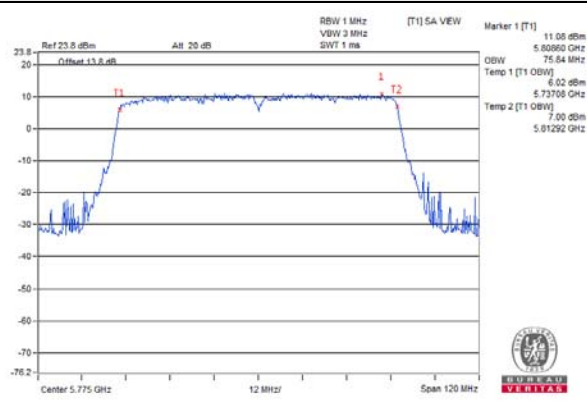
802.11ac (VHT40) / Chain 1 / CH 151



802.11ac (VHT80) / Chain 0 / CH 155



802.11ac (VHT80) / Chain 1 / CH 155



Test Mode C

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.44	16.44
40	5200	16.44	16.44
48	5240	16.44	16.44
52	5260	16.44	16.44
60	5300	16.44	16.44
64	5320	16.44	16.44
100	5500	16.44	16.44
116	5580	16.44	16.44
140	5700	16.44	16.44
149	5745	16.44	16.43
157	5785	16.44	16.44
165	5825	16.44	16.44

802.11ac (VHT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.64	17.64
40	5200	17.64	17.64
48	5240	17.64	17.64
52	5260	17.64	17.64
60	5300	17.64	17.64
64	5320	17.64	17.64
100	5500	17.64	17.64
116	5580	17.64	17.64
140	5700	17.64	17.64
149	5745	17.64	17.64
157	5785	17.64	17.64
165	5825	17.64	17.64

802.11ac (VHT40)

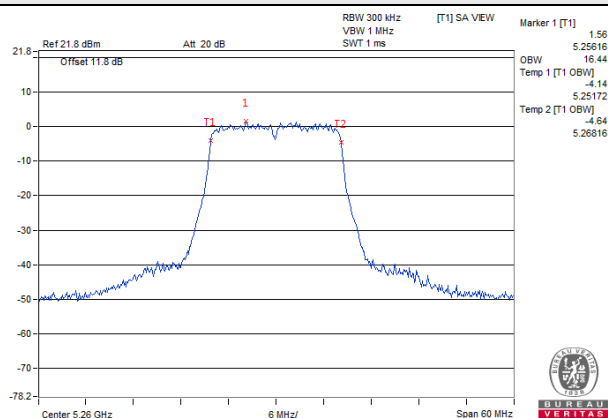
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.12	36.00
46	5230	36.12	36.00
54	5270	36.12	35.88
62	5310	36.00	36.00
102	5510	36.00	36.00
110	5550	36.12	36.12
134	5670	36.12	36.12
151	5755	36.12	36.00
159	5795	36.12	36.00

802.11ac (VHT80)

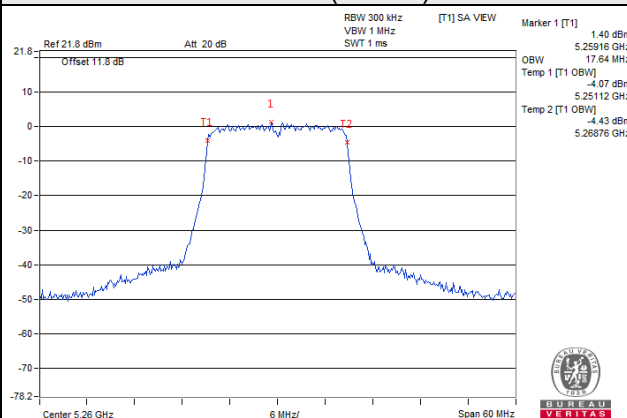
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.60	75.84
58	5290	75.84	75.84
106	5530	75.84	75.84
122	5610	75.84	75.84
155	5775	75.84	75.84

Spectrum Plot of Worst Value

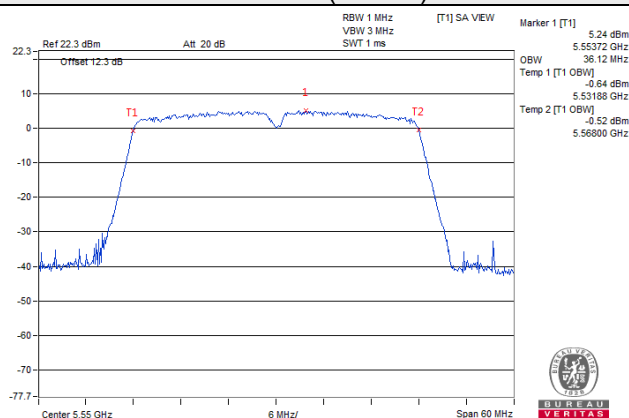
802.11a



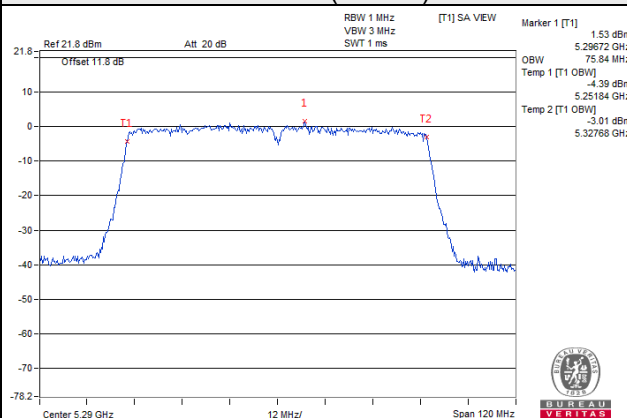
802.11ac (VHT20)



802.11ac (VHT40)

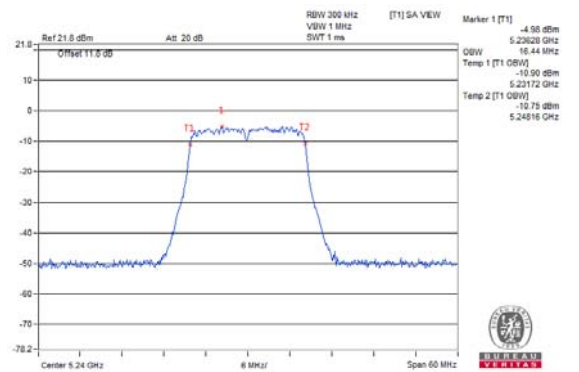


802.11ac (VHT80)

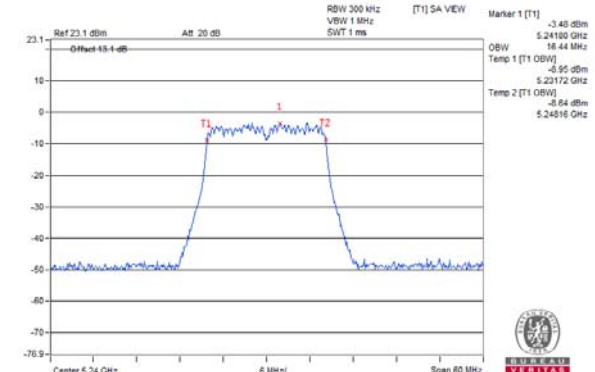


Spectrum Plot for near By DFS Band

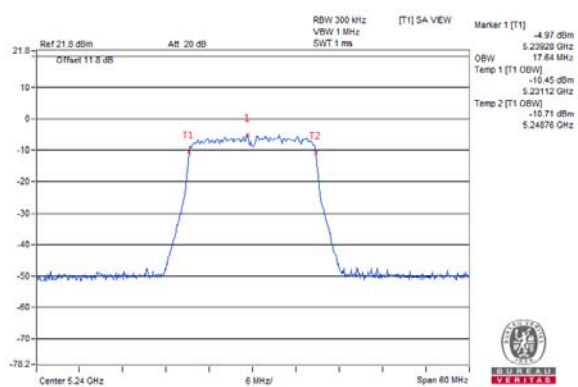
802.11a / Chain 0 / CH 48



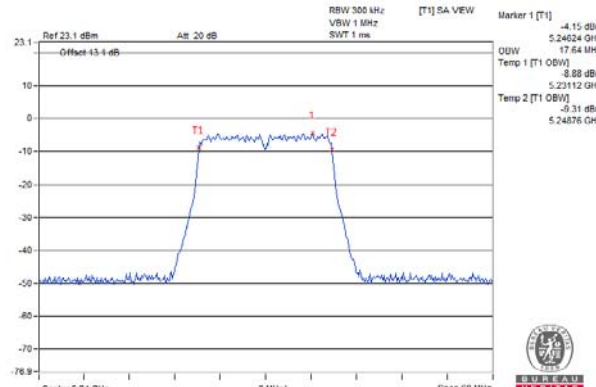
802.11a / Chain 1 / CH 48



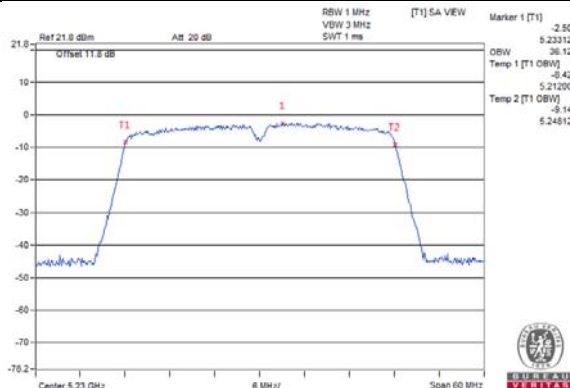
802.11ac (VHT20) / Chain 0 / CH 48



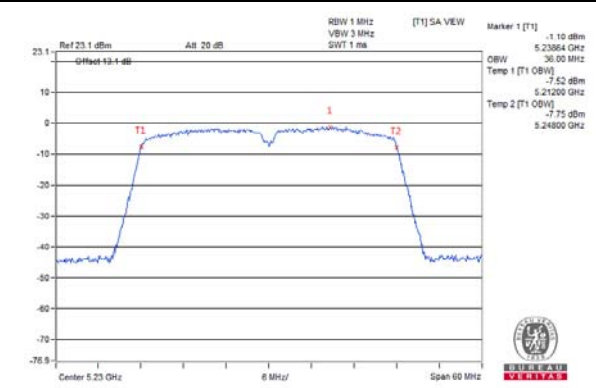
802.11ac (VHT20) / Chain 1 / CH 48



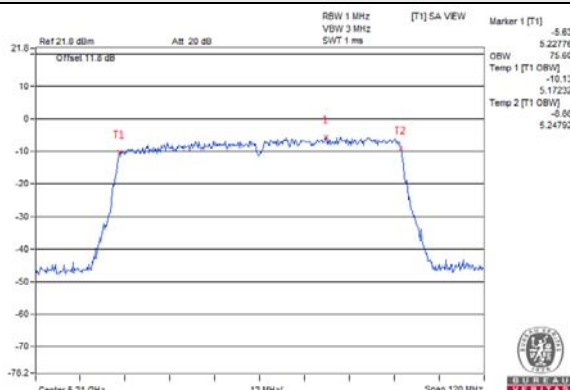
802.11ac (VHT40) / Chain 0 / CH 46



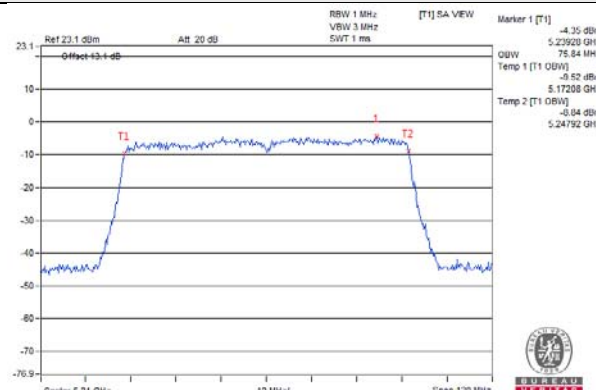
802.11ac (VHT40) / Chain 1 / CH 46



802.11ac (VHT80) / Chain 0 / CH 42

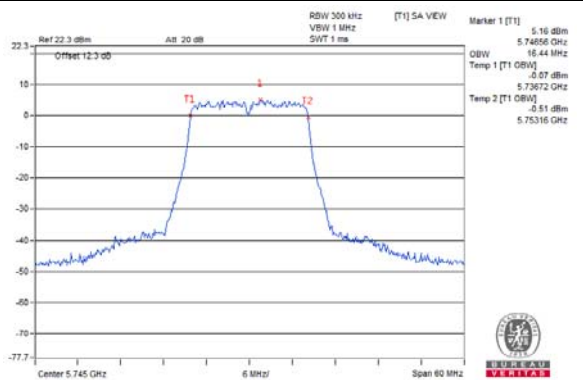


802.11ac (VHT80) / Chain 1 / CH 42

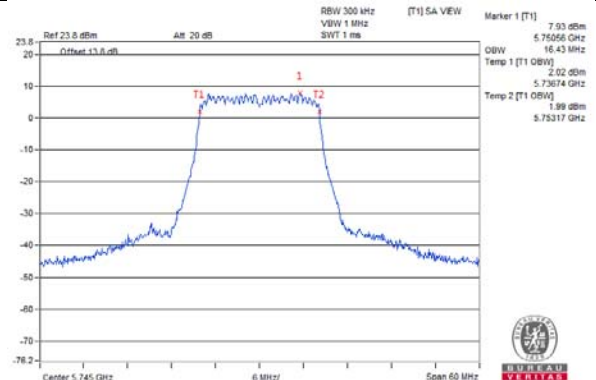


Spectrum Plot for near By DFS Band

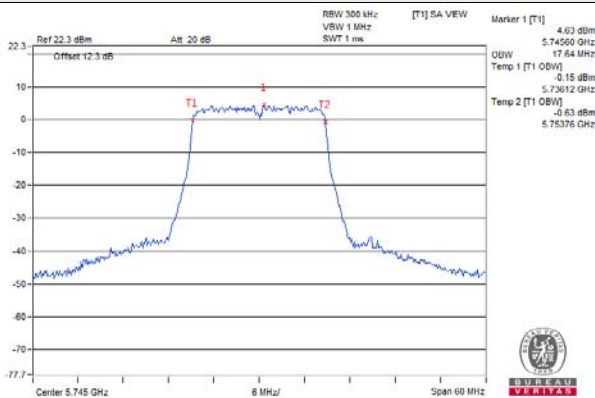
802.11a / Chain 0 / CH 149



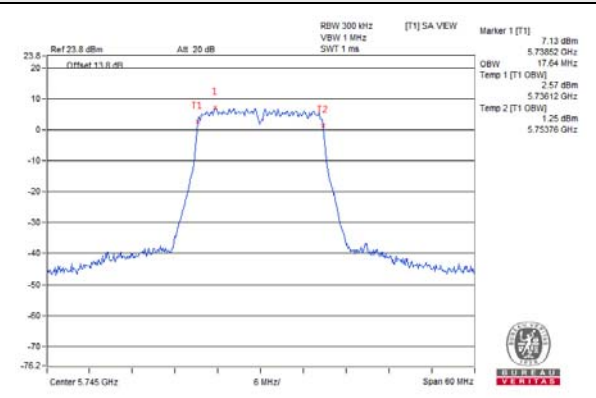
802.11a / Chain 1 / CH 149



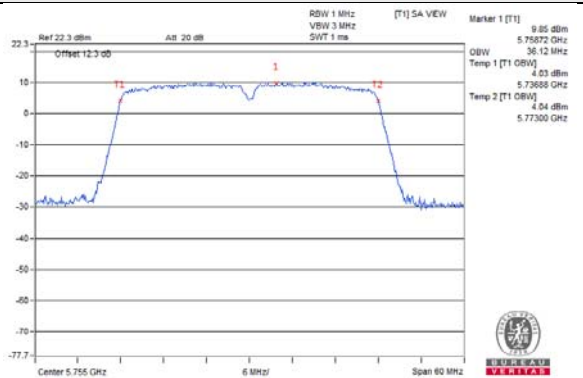
802.11ac (VHT20) / Chain 0 / CH 149



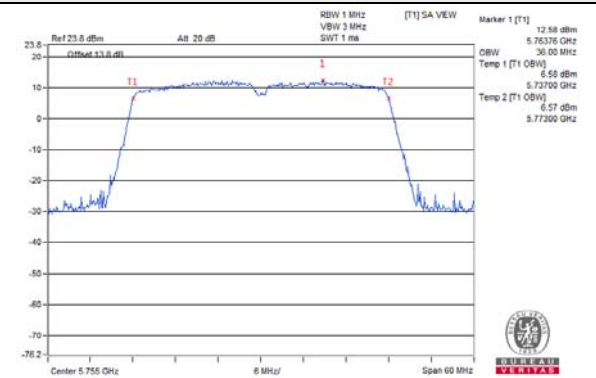
802.11ac (VHT20) / Chain 1 / CH 149



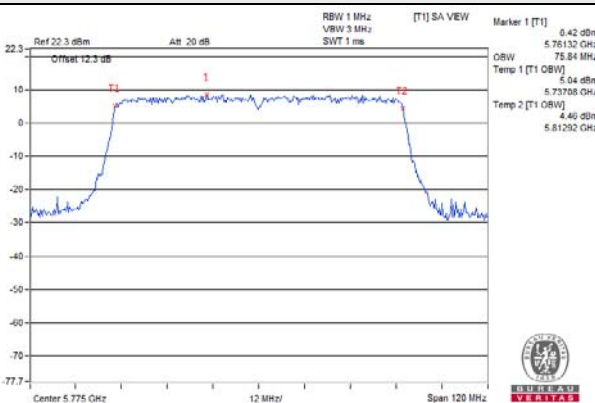
802.11ac (VHT40) / Chain 0 / CH 151



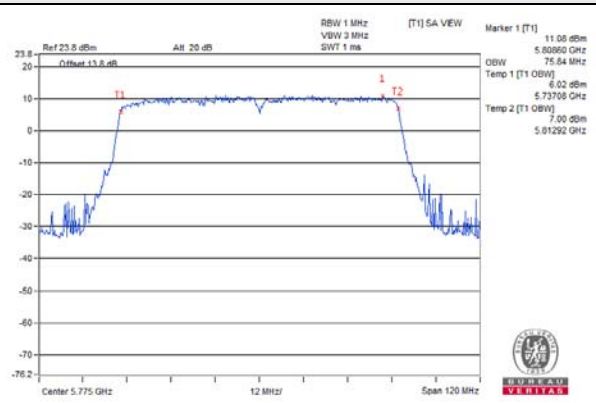
802.11ac (VHT40) / Chain 1 / CH 151



802.11ac (VHT80) / Chain 0 / CH 155



802.11ac (VHT80) / Chain 1 / CH 155

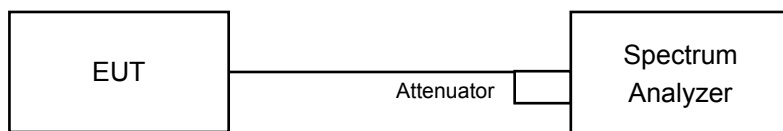


4.5 Peak Power Spectral Density Measurement

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-1

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

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%

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

Duty cycle of test signal is < 98%

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

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

Test Mode A

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

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	5.45	7.28	0.32	9.79	14.89	Pass
40	5200	5.74	7.18	0.32	9.85	14.89	Pass
48	5240	5.78	6.70	0.32	9.59	14.89	Pass
52	5260	4.85	5.52	0.32	8.53	8.99	Pass
60	5300	4.89	5.85	0.32	8.73	8.99	Pass
64	5320	4.72	5.77	0.32	8.61	8.99	Pass
100	5500	3.31	6.09	0.32	8.25	8.29	Pass
116	5580	3.63	5.65	0.32	8.09	8.29	Pass
140	5700	2.14	2.86	0.32	5.85	8.29	Pass

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1: Directional Gain = 5.1dBi + 10log(2) = 8.11dBi > 6dBi, so the power density limit shall be reduced to 17-(8.11-6) = 14.89dBm.
For U-NII-2A: Directional Gain = 5.0dBi + 10log(2) = 8.01dBi > 6dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99dBm.
For U-NII-2C: Directional Gain = 5.7dBi + 10log(2) = 8.71dBi > 6dBi, so the power density limit shall be reduced to 11-(8.71-6) = 8.29dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	5.01	6.33	0.10	8.83	14.89	Pass
40	5200	5.79	6.79	0.10	9.43	14.89	Pass
48	5240	5.77	6.26	0.10	9.13	14.89	Pass
52	5260	5.62	5.92	0.10	8.88	8.99	Pass
60	5300	4.97	5.92	0.10	8.58	8.99	Pass
64	5320	4.91	6.30	0.10	8.77	8.99	Pass
100	5500	2.77	6.56	0.10	8.18	8.29	Pass
116	5580	3.32	6.30	0.10	8.17	8.29	Pass
140	5700	1.32	3.02	0.10	5.36	8.29	Pass

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1: Directional Gain = 5.1dBi + 10log(2) = 8.11dBi > 6dBi, so the power density limit shall be reduced to 17-(8.11-6) = 14.89dBm.
For U-NII-2A: Directional Gain = 5.0dBi + 10log(2) = 8.01dBi > 6dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99dBm.
For U-NII-2C: Directional Gain = 5.7dBi + 10log(2) = 8.71dBi > 6dBi, so the power density limit shall be reduced to 11-(8.71-6) = 8.29dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-0.79	0.67	0.16	3.17	14.89	Pass
46	5230	3.23	4.27	0.16	6.95	14.89	Pass
54	5270	4.99	6.01	0.16	8.70	8.99	Pass
62	5310	-0.38	1.17	0.16	3.63	8.99	Pass
102	5510	-0.42	2.00	0.16	4.13	8.29	Pass
110	5550	2.97	5.14	0.16	7.36	8.29	Pass
134	5670	2.47	3.14	0.16	5.99	8.29	Pass

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1: Directional Gain = 5.1dBi + 10log(2) = 8.11dBi > 6dBi, so the power density limit shall be reduced to 17-(8.11-6) = 14.89dBm.
For U-NII-2A: Directional Gain = 5.0dBi + 10log(2) = 8.01dBi > 6dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99dBm.
For U-NII-2C: Directional Gain = 5.7dBi + 10log(2) = 8.71dBi > 6dBi, so the power density limit shall be reduced to 11-(8.71-6) = 8.29dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

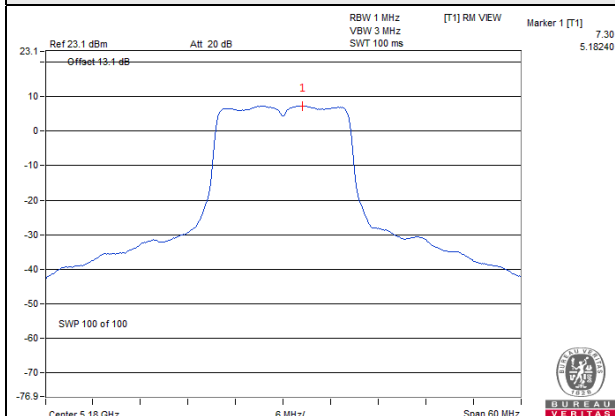
Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-6.28	-5.39	0.35	-2.45	14.89	Pass
58	5290	-5.23	-4.03	0.35	-1.23	8.99	Pass
106	5530	-4.55	-3.03	0.35	-0.36	8.29	Pass
122	5610	0.93	1.20	0.35	4.43	8.29	Pass

Note:

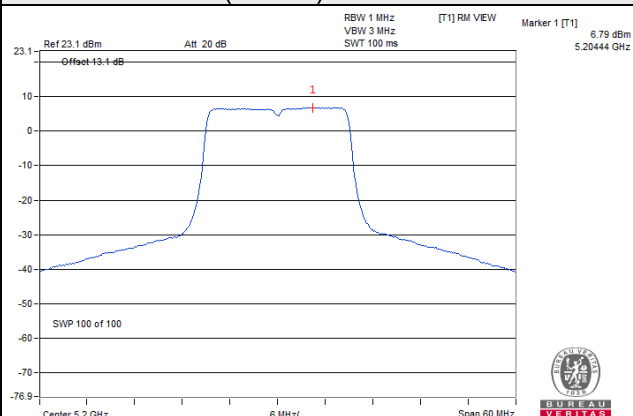
- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1: Directional Gain = 5.1dBi + 10log(2) = 8.11dBi > 6dBi, so the power density limit shall be reduced to 17-(8.11-6) = 14.89dBm.
For U-NII-2A: Directional Gain = 5.0dBi + 10log(2) = 8.01dBi > 6dBi, so the power density limit shall be reduced to 11-(8.01-6) = 8.99dBm.
For U-NII-2C: Directional Gain = 5.7dBi + 10log(2) = 8.71dBi > 6dBi, so the power density limit shall be reduced to 11-(8.71-6) = 8.29dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

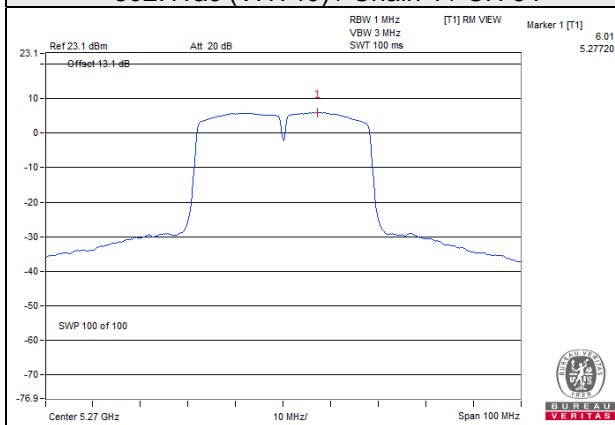
802.11a / Chain 1 / CH 36



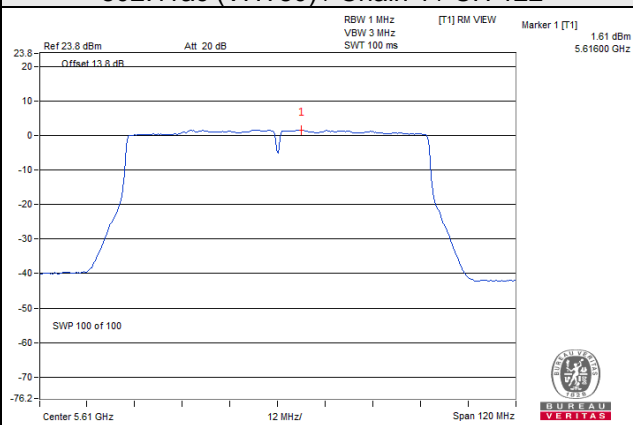
802.11ac (VHT20) / Chain 1 / CH 40



802.11ac (VHT40) / Chain 1 / CH 54



802.11ac (VHT80) / Chain 1 / CH 122



For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	-4.34	-2.12	3.01	0.32	1.21	26.99	Pass
	157	5785	-3.22	-1.00	3.01	0.32	2.33	26.99	Pass
	165	5825	-4.38	-2.16	3.01	0.32	1.17	26.99	Pass
1	149	5745	-3.37	-1.15	3.01	0.32	2.18	26.99	Pass
	157	5785	-1.81	0.41	3.01	0.32	3.74	26.99	Pass
	165	5825	-2.88	-0.66	3.01	0.32	2.67	26.99	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is measure value add 10 log (N_{ANT}) dB.
2. Directional Gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT20)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	-3.31	-1.09	3.01	0.10	2.02	26.99	Pass
	157	5785	-2.74	-0.52	3.01	0.10	2.59	26.99	Pass
	165	5825	-5.37	-3.15	3.01	0.10	-0.04	26.99	Pass
1	149	5745	-2.21	0.01	3.01	0.10	3.12	26.99	Pass
	157	5785	-1.42	0.80	3.01	0.10	3.91	26.99	Pass
	165	5825	-4.06	-1.84	3.01	0.10	1.27	26.99	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is measure value add 10 log (N_{ANT}) dB.
2. Directional Gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-5.37	-3.15	3.01	0.16	0.02	26.99	Pass
	159	5795	-5.44	-3.22	3.01	0.16	-0.05	26.99	Pass
1	151	5755	-4.41	-2.19	3.01	0.16	0.98	26.99	Pass
	159	5795	-4.23	-2.01	3.01	0.16	1.16	26.99	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is measure value add 10 log (N_{ANT}) dB.
- Directional Gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

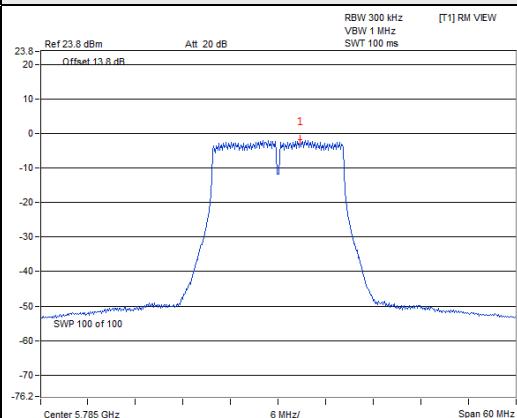
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-8.50	-6.28	3.01	0.35	-2.92	26.99	Pass
1	155	5775	-7.04	-4.82	3.01	0.35	-1.46	26.99	Pass

Note:

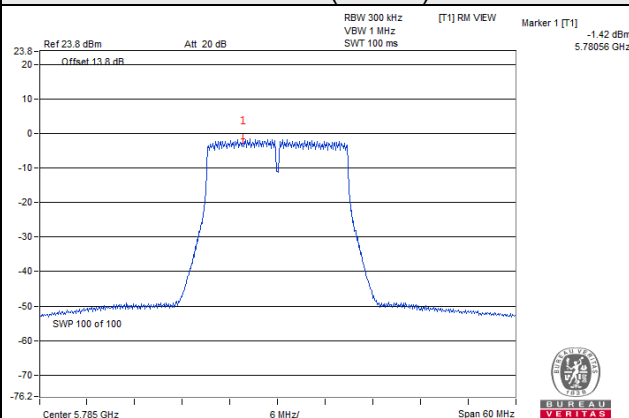
- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is measure value add 10 log (N_{ANT}) dB.
- Directional Gain = 6dBi + 10log(2) = 9.01dBi > 6dBi, so the power density limit shall be reduced to 30-(9.01-6) = 26.99dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

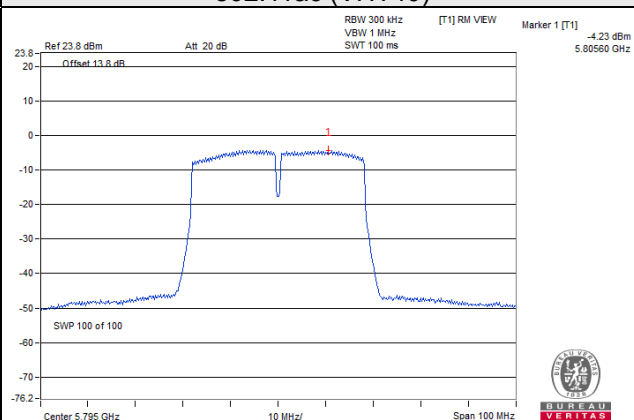
802.11a



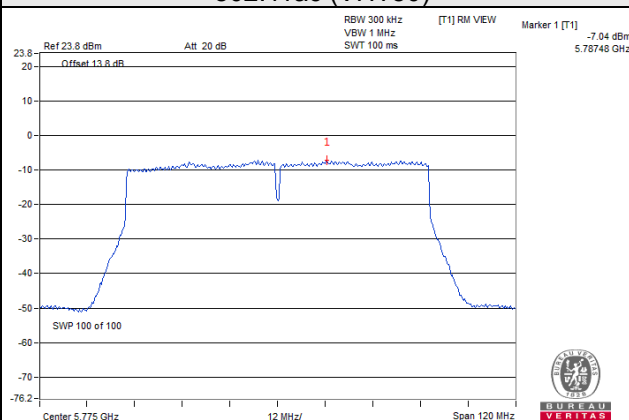
802.11ac (VHT20)



802.11ac (VHT40)



802.11ac (VHT80)



Test Mode B

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

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	-10.02	-7.77	0.22	-5.52	9.44	Pass
40	5200	-9.87	-7.77	0.22	-5.46	9.44	Pass
48	5240	-9.39	-7.94	0.22	-5.37	9.44	Pass
52	5260	-3.11	-1.66	0.22	0.91	2.79	Pass
60	5300	-3.01	-1.34	0.22	1.13	2.79	Pass
64	5320	-3.25	-1.26	0.22	1.09	2.79	Pass
100	5500	-4.48	-0.84	0.22	0.94	2.49	Pass
116	5580	-4.52	-0.90	0.22	0.89	2.49	Pass
140	5700	-3.44	-1.44	0.22	0.90	2.49	Pass

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1: Directional Gain = 10.55dBi + 10log(2) = 13.56dBi > 6dBi, so the power density limit shall be reduced to 17-(13.56-6) = 9.44dBm.
For U-NII-2A: Directional Gain = 11.20dBi + 10log(2) = 14.21dBi > 6dBi, so the power density limit shall be reduced to 11-(14.21-6) = 2.79dBm.
For U-NII-2C: Directional Gain = 11.50dBi + 10log(2) = 14.51dBi > 6dBi, so the power density limit shall be reduced to 11-(14.51-6) = 2.49dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	-10.02	-8.42	0.10	-6.04	9.44	Pass
40	5200	-9.83	-8.50	0.10	-6.00	9.44	Pass
48	5240	-9.37	-8.57	0.10	-5.84	9.44	Pass
52	5260	-3.09	-1.48	0.10	0.90	2.79	Pass
60	5300	-3.30	-1.05	0.10	1.08	2.79	Pass
64	5320	-3.64	-0.97	0.10	1.01	2.79	Pass
100	5500	-3.89	-1.18	0.10	0.78	2.49	Pass
116	5580	-4.16	-1.34	0.10	0.59	2.49	Pass
140	5700	-4.09	-1.17	0.10	0.72	2.49	Pass

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1: Directional Gain = $10.55\text{dBi} + 10\log(2) = 13.56\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (13.56 - 6) = 9.44\text{dBm}$.
For U-NII-2A: Directional Gain = $11.20\text{dBi} + 10\log(2) = 14.21\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (14.21 - 6) = 2.79\text{dBm}$.
For U-NII-2C: Directional Gain = $11.50\text{dBi} + 10\log(2) = 14.51\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (14.51 - 6) = 2.49\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-13.14	-11.20	0.31	-8.74	9.44	Pass
46	5230	-12.47	-10.98	0.31	-8.34	9.44	Pass
54	5270	-3.59	-2.36	0.31	0.39	2.79	Pass
62	5310	-5.58	-3.82	0.31	-1.29	2.79	Pass
102	5510	-4.66	-1.95	0.31	0.22	2.49	Pass
110	5550	-4.68	-1.87	0.31	0.27	2.49	Pass
134	5670	-4.14	-2.12	0.31	0.31	2.49	Pass

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1: Directional Gain = 10.55dBi + 10log(2) = 13.56dBi > 6dBi, so the power density limit shall be reduced to 17-(13.56-6) = 9.44dBm.
For U-NII-2A: Directional Gain = 11.20dBi + 10log(2) = 14.21dBi > 6dBi, so the power density limit shall be reduced to 11-(14.21-6) = 2.79dBm.
For U-NII-2C: Directional Gain = 11.50dBi + 10log(2) = 14.51dBi > 6dBi, so the power density limit shall be reduced to 11-(14.51-6) = 2.49dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

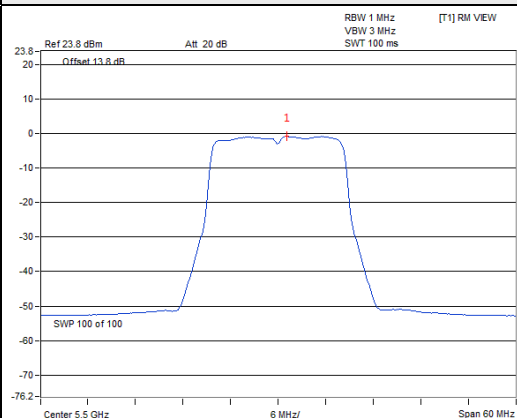
Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-15.72	-14.55	0.35	-11.74	9.44	Pass
58	5290	-9.37	-7.93	0.35	-5.23	2.79	Pass
106	5530	-8.59	-5.66	0.35	-3.52	2.49	Pass
122	5610	-7.77	-5.50	0.35	-3.13	2.49	Pass

Note:

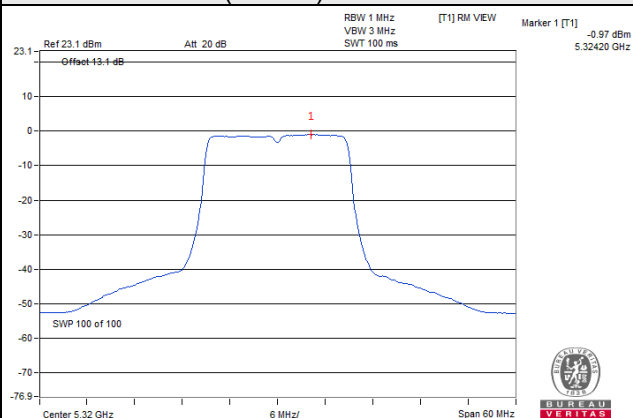
- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1: Directional Gain = 10.55dBi + 10log(2) = 13.56dBi > 6dBi, so the power density limit shall be reduced to 17-(13.56-6) = 9.44dBm.
For U-NII-2A: Directional Gain = 11.20dBi + 10log(2) = 14.21dBi > 6dBi, so the power density limit shall be reduced to 11-(14.21-6) = 2.79dBm.
For U-NII-2C: Directional Gain = 11.50dBi + 10log(2) = 14.51dBi > 6dBi, so the power density limit shall be reduced to 11-(14.51-6) = 2.49dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

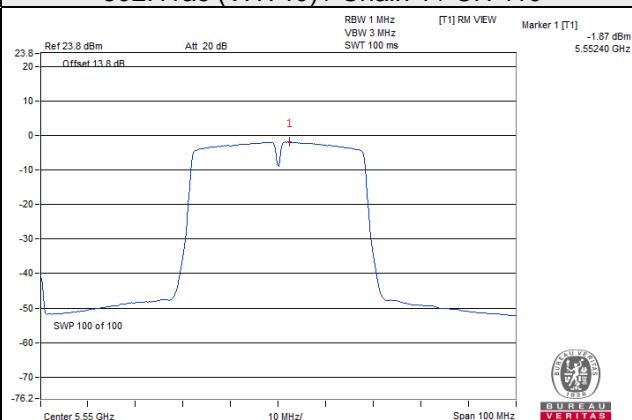
802.11a / Chain 1 / CH 100



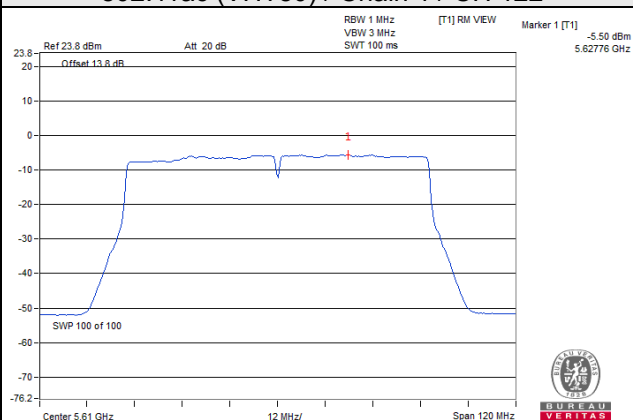
802.11ac (VHT20) / Chain 1 / CH 64



802.11ac (VHT40) / Chain 1 / CH 110



802.11ac (VHT80) / Chain 1 / CH 122



For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	-7.47	-5.25	3.01	0.22	-2.02	21.49	Pass
	157	5785	-6.46	-4.24	3.01	0.22	-1.01	21.49	Pass
	165	5825	-7.60	-5.38	3.01	0.22	-2.15	21.49	Pass
1	149	5745	-5.20	-2.98	3.01	0.22	0.25	21.49	Pass
	157	5785	-4.08	-1.86	3.01	0.22	1.37	21.49	Pass
	165	5825	-5.24	-3.02	3.01	0.22	0.21	21.49	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is measure value add 10 log (N_{ANT}) dB.
2. Directional Gain = 11.50dBi + 10log(2) = 14.51dBi > 6dBi, so the power density limit shall be reduced to 30-(14.51-6) = 21.49dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT20)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	-7.70	-5.48	3.01	0.10	-2.37	21.49	Pass
	157	5785	-6.52	-4.30	3.01	0.10	-1.19	21.49	Pass
	165	5825	-8.59	-6.37	3.01	0.10	-3.26	21.49	Pass
1	149	5745	-5.21	-2.99	3.01	0.10	0.12	21.49	Pass
	157	5785	-6.50	-4.28	3.01	0.10	-1.17	21.49	Pass
	165	5825	-6.33	-4.11	3.01	0.10	-1.00	21.49	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is measure value add 10 log (N_{ANT}) dB.
2. Directional Gain = 11.50dBi + 10log(2) = 14.51dBi > 6dBi, so the power density limit shall be reduced to 30-(14.51-6) = 21.49dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-8.67	-6.45	3.01	0.31	-3.13	21.49	Pass
	159	5795	-8.55	-6.33	3.01	0.31	-3.01	21.49	Pass
1	151	5755	-6.33	-4.11	3.01	0.31	-0.79	21.49	Pass
	159	5795	-6.23	-4.01	3.01	0.31	-0.69	21.49	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is measure value add 10 log (N_{ANT}) dB.
2. Directional Gain = 11.50dBi + 10log(2) = 14.51dBi > 6dBi, so the power density limit shall be reduced to 30-(14.51-6) = 21.49dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

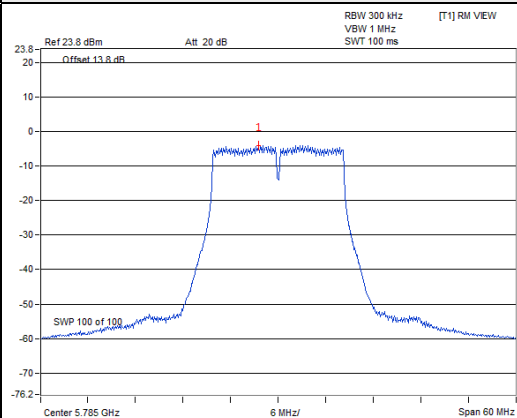
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-10.63	-8.41	3.01	0.35	-5.05	21.49	Pass
1	155	5775	-7.86	-5.64	3.01	0.35	-2.28	21.49	Pass

Note:

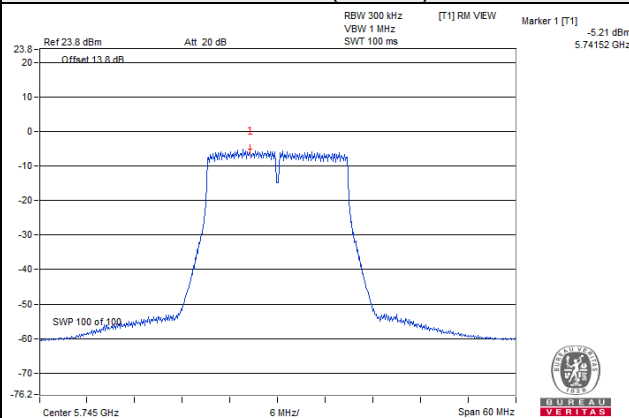
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is measure value add 10 log (N_{ANT}) dB.
2. Directional Gain = 11.50dBi + 10log(2) = 14.51dBi > 6dBi, so the power density limit shall be reduced to 30-(14.51-6) = 21.49dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

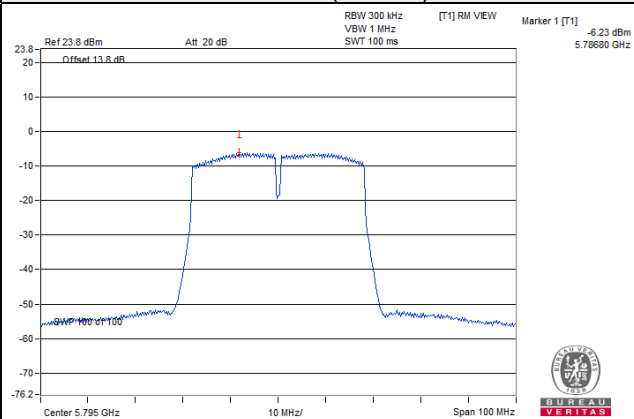
802.11a



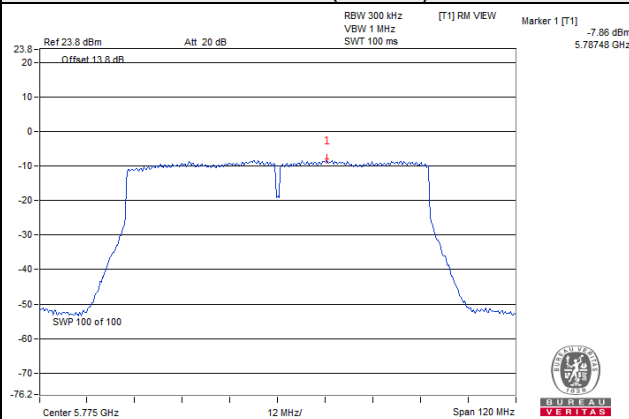
802.11ac (VHT20)



802.11ac (VHT40)



802.11ac (VHT80)



Test Mode C

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

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	-10.02	-7.77	0.22	-5.52	7.42	Pass
40	5200	-9.87	-7.77	0.22	-5.46	7.42	Pass
48	5240	-9.39	-7.94	0.22	-5.37	7.42	Pass
52	5260	-3.11	-1.66	0.22	0.91	1.29	Pass
60	5300	-3.01	-1.34	0.22	1.13	1.29	Pass
64	5320	-3.25	-1.26	0.22	1.09	1.29	Pass
100	5500	-4.48	-0.84	0.22	0.94	0.99	Pass
116	5580	-4.52	-0.90	0.22	0.89	0.99	Pass
140	5700	-3.44	-1.44	0.22	0.90	0.99	Pass

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1: Directional Gain = $12.57\text{dBi} + 10\log(2) = 15.58\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (15.58 - 6) = 7.42\text{dBm}$.
For U-NII-2A: Directional Gain = $12.7\text{dBi} + 10\log(2) = 15.71\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (15.71 - 6) = 1.29\text{dBm}$.
For U-NII-2C: Directional Gain = $13.0\text{dBi} + 10\log(2) = 16.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (16.01 - 6) = 0.99\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	-10.02	-8.42	0.10	-6.04	7.42	Pass
40	5200	-9.83	-8.50	0.10	-6.00	7.42	Pass
48	5240	-9.37	-8.57	0.10	-5.84	7.42	Pass
52	5260	-3.09	-1.48	0.10	0.90	1.29	Pass
60	5300	-3.30	-1.05	0.10	1.08	1.29	Pass
64	5320	-3.64	-0.97	0.10	1.01	1.29	Pass
100	5500	-3.89	-1.18	0.10	0.78	0.99	Pass
116	5580	-4.16	-1.34	0.10	0.59	0.99	Pass
140	5700	-4.09	-1.17	0.10	0.72	0.99	Pass

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1: Directional Gain = $12.57\text{dBi} + 10\log(2) = 15.58\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (15.58 - 6) = 7.42\text{dBm}$.
For U-NII-2A: Directional Gain = $12.7\text{dBi} + 10\log(2) = 15.71\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (15.71 - 6) = 1.29\text{dBm}$.
For U-NII-2C: Directional Gain = $13.0\text{dBi} + 10\log(2) = 16.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (16.01 - 6) = 0.99\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-13.14	-11.20	0.31	-8.74	7.42	Pass
46	5230	-12.47	-10.98	0.31	-8.34	7.42	Pass
54	5270	-3.59	-2.36	0.31	0.39	1.29	Pass
62	5310	-5.58	-3.82	0.31	-1.29	1.29	Pass
102	5510	-4.66	-1.95	0.31	0.22	0.99	Pass
110	5550	-4.68	-1.87	0.31	0.27	0.99	Pass
134	5670	-4.14	-2.12	0.31	0.31	0.99	Pass

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1: Directional Gain = $12.57\text{dBi} + 10\log(2) = 15.58\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (15.58 - 6) = 7.42\text{dBm}$.
For U-NII-2A: Directional Gain = $12.7\text{dBi} + 10\log(2) = 15.71\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (15.71 - 6) = 1.29\text{dBm}$.
For U-NII-2C: Directional Gain = $13.0\text{dBi} + 10\log(2) = 16.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (16.01 - 6) = 0.99\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

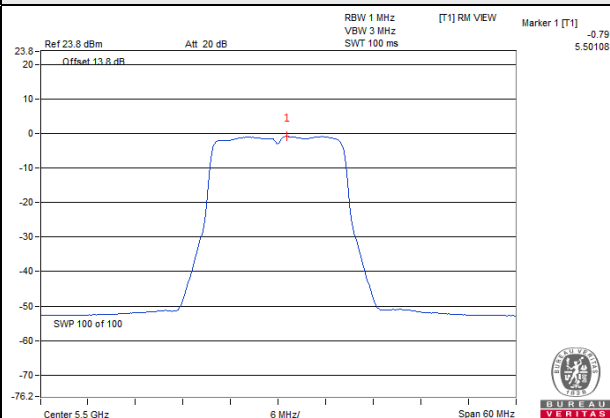
Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-15.72	-14.55	0.35	-11.74	7.42	Pass
58	5290	-9.37	-7.93	0.35	-5.23	1.29	Pass
106	5530	-8.59	-5.66	0.35	-3.52	0.99	Pass
122	5610	-7.77	-5.50	0.35	-3.13	0.99	Pass

Note:

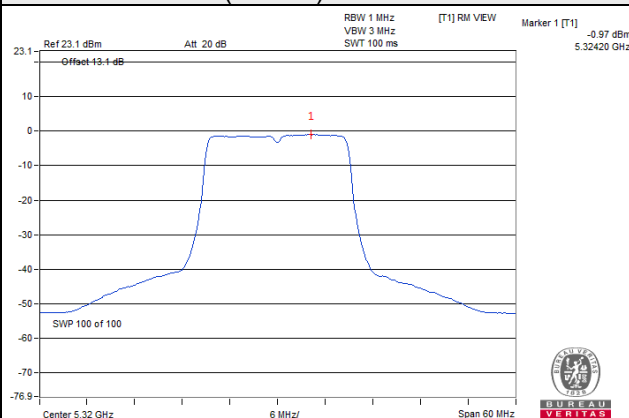
- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1: Directional Gain = $12.57\text{dBi} + 10\log(2) = 15.58\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (15.58 - 6) = 7.42\text{dBm}$.
For U-NII-2A: Directional Gain = $12.7\text{dBi} + 10\log(2) = 15.71\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (15.71 - 6) = 1.29\text{dBm}$.
For U-NII-2C: Directional Gain = $13.0\text{dBi} + 10\log(2) = 16.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (16.01 - 6) = 0.99\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

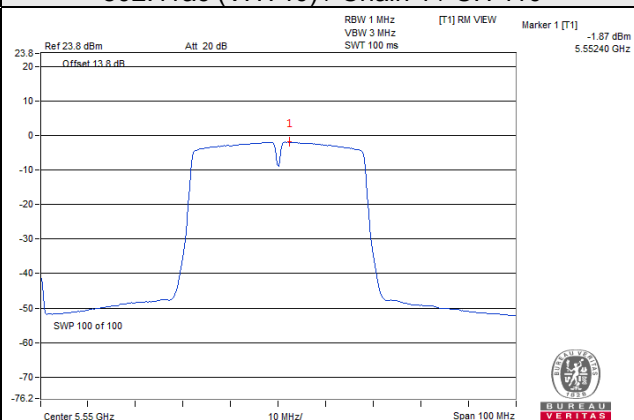
802.11a / Chain 1 / CH 100



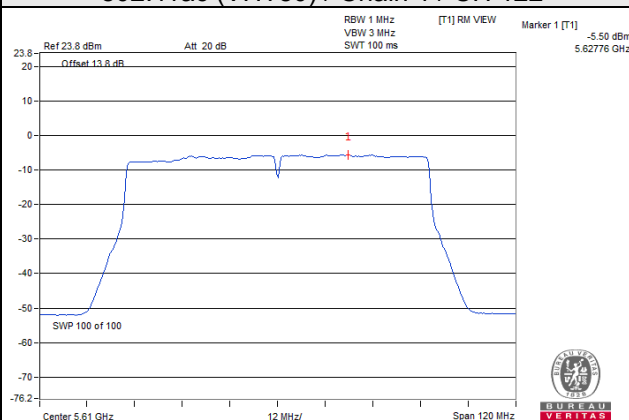
802.11ac (VHT20) / Chain 1 / CH 64



802.11ac (VHT40) / Chain 1 / CH 110



802.11ac (VHT80) / Chain 1 / CH 122



For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	-7.47	-5.25	3.01	0.22	-2.02	19.89	Pass
	157	5785	-6.46	-4.24	3.01	0.22	-1.01	19.89	Pass
	165	5825	-7.60	-5.38	3.01	0.22	-2.15	19.89	Pass
1	149	5745	-5.20	-2.98	3.01	0.22	0.25	19.89	Pass
	157	5785	-4.08	-1.86	3.01	0.22	1.37	19.89	Pass
	165	5825	-5.24	-3.02	3.01	0.22	0.21	19.89	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is measure value add 10 log (N_{ANT}) dB.
2. Directional Gain = 13.1dBi + 10log(2) = 16.11dBi > 6dBi, so the power density limit shall be reduced to 30-(16.11-6) = 19.89dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT20)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	149	5745	-7.70	-5.48	3.01	0.10	-2.37	19.89	Pass
	157	5785	-6.52	-4.30	3.01	0.10	-1.19	19.89	Pass
	165	5825	-8.59	-6.37	3.01	0.10	-3.26	19.89	Pass
1	149	5745	-5.21	-2.99	3.01	0.10	0.12	19.89	Pass
	157	5785	-6.50	-4.28	3.01	0.10	-1.17	19.89	Pass
	165	5825	-6.33	-4.11	3.01	0.10	-1.00	19.89	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is measure value add 10 log (N_{ANT}) dB.
2. Directional Gain = 13.1dBi + 10log(2) = 16.11dBi > 6dBi, so the power density limit shall be reduced to 30-(16.11-6) = 19.89dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5755	-8.67	-6.45	3.01	0.31	-3.13	19.89	Pass
	159	5795	-8.55	-6.33	3.01	0.31	-3.01	19.89	Pass
1	151	5755	-6.33	-4.11	3.01	0.31	-0.79	19.89	Pass
	159	5795	-6.23	-4.01	3.01	0.31	-0.69	19.89	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is measure value add 10 log (N_{ANT}) dB.
2. Directional Gain = 13.1dBi + 10log(2) = 16.11dBi > 6dBi, so the power density limit shall be reduced to 30-(16.11-6) = 19.89dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

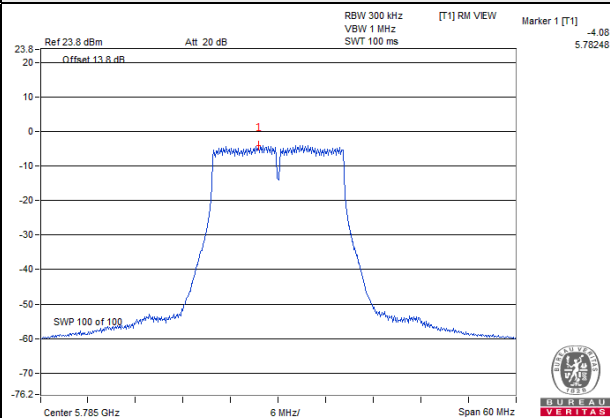
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	155	5775	-10.63	-8.41	3.01	0.35	-5.05	19.89	Pass
1	155	5775	-7.86	-5.64	3.01	0.35	-2.28	19.89	Pass

Note:

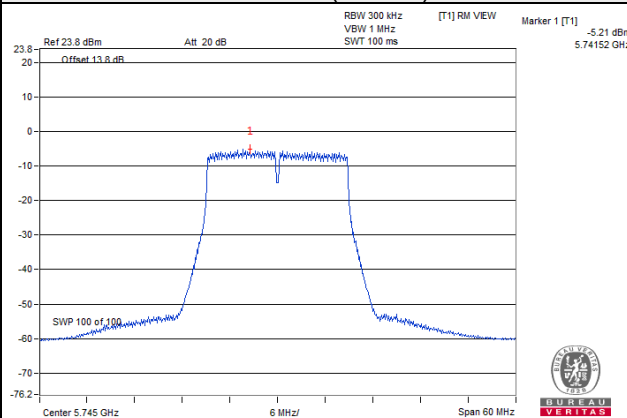
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is measure value add 10 log (N_{ANT}) dB.
2. Directional Gain = 13.1dBi + 10log(2) = 16.11dBi > 6dBi, so the power density limit shall be reduced to 30-(16.11-6) = 19.89dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

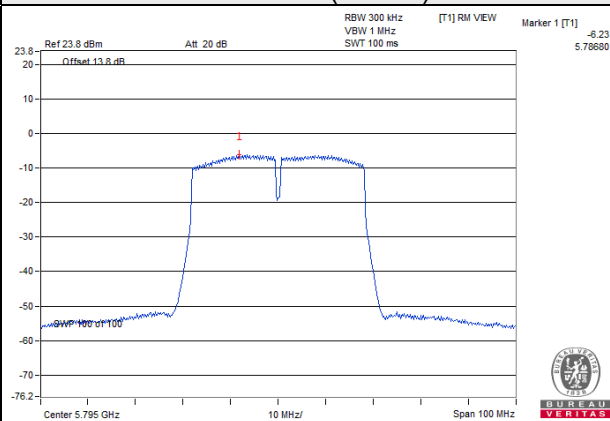
802.11a



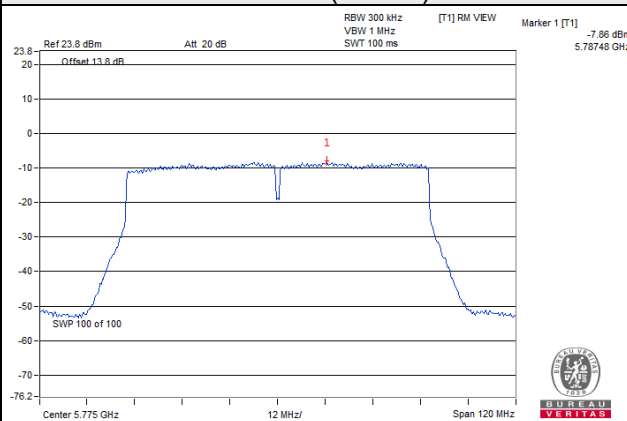
802.11ac (VHT20)



802.11ac (VHT40)



802.11ac (VHT80)

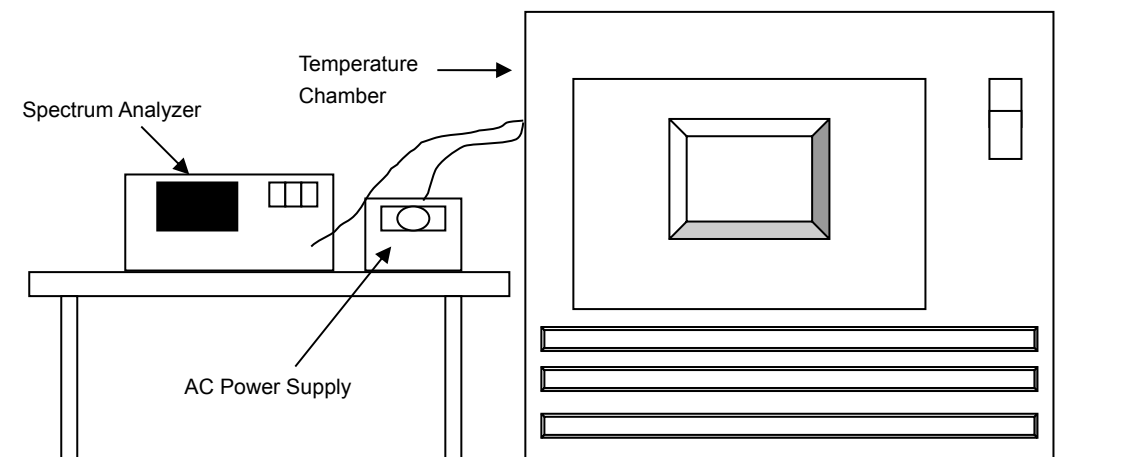


4.6 Frequency Stability

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	100039	Jun. 12, 2019	Jun. 11, 2020
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 03, 2019	Jun. 02, 2020
Digital Multimeter Fluke	87-III	70360742	Jun. 27, 2019	Jun. 26, 2020
AC Power Supply Extech	CFW-105	E000603	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 AC 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 2 and 3 with the temperature chamber set to the lowest temperature.
- 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

Test Mode A

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
55	120	5180.0210	Pass	5180.0206	Pass	5180.0192	Pass	5180.0202	Pass
50	120	5180.0225	Pass	5180.0233	Pass	5180.0270	Pass	5180.0246	Pass
40	120	5179.9895	Pass	5179.9883	Pass	5179.9871	Pass	5179.9918	Pass
30	120	5179.9920	Pass	5179.9921	Pass	5179.9897	Pass	5179.9915	Pass
20	120	5180.0211	Pass	5180.0178	Pass	5180.0174	Pass	5180.0185	Pass
10	120	5180.0179	Pass	5180.0183	Pass	5180.0193	Pass	5180.0214	Pass
0	120	5179.9773	Pass	5179.9774	Pass	5179.9785	Pass	5179.9779	Pass
-10	120	5179.9896	Pass	5179.9907	Pass	5179.9918	Pass	5179.9890	Pass
-20	120	5179.9943	Pass	5179.9907	Pass	5179.9908	Pass	5179.9916	Pass
-30	120	5180.0074	Pass	5180.0049	Pass	5180.0068	Pass	5180.0083	Pass
-40	120	5179.9780	Pass	5179.9808	Pass	5179.9796	Pass	5179.9793	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	5180.0212	Pass	5180.017	Pass	5180.0168	Pass	5180.0182	Pass
	120	5180.0211	Pass	5180.0178	Pass	5180.0174	Pass	5180.0185	Pass
	102	5180.0221	Pass	5180.0187	Pass	5180.0167	Pass	5180.0176	Pass

Test Mode B

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
55	120	5180.0181	Pass	5180.0172	Pass	5180.0205	Pass	5180.0179	Pass
50	120	5179.9962	Pass	5179.9937	Pass	5179.9936	Pass	5179.9953	Pass
40	120	5180.0052	Pass	5180.0073	Pass	5180.0037	Pass	5180.0074	Pass
30	120	5179.9915	Pass	5179.9906	Pass	5179.9919	Pass	5179.9898	Pass
20	120	5179.9893	Pass	5179.9890	Pass	5179.9881	Pass	5179.9895	Pass
10	120	5180.0105	Pass	5180.0064	Pass	5180.0079	Pass	5180.0093	Pass
0	120	5180.0151	Pass	5180.0164	Pass	5180.0121	Pass	5180.0165	Pass
-10	120	5180.0103	Pass	5180.0148	Pass	5180.0135	Pass	5180.0140	Pass
-20	120	5179.9874	Pass	5179.9863	Pass	5179.9878	Pass	5179.9874	Pass
-30	120	5179.9998	Pass	5180.0031	Pass	5180.0027	Pass	5180.0010	Pass
-40	120	5179.9869	Pass	5179.9869	Pass	5179.9902	Pass	5179.9868	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	5179.9899	Pass	5179.9884	Pass	5179.9883	Pass	5179.9895	Pass
	120	5179.9893	Pass	5179.9890	Pass	5179.9881	Pass	5179.9895	Pass
	102	5179.9903	Pass	5179.9888	Pass	5179.9880	Pass	5179.9903	Pass

Test Mode C

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
55	120	5180.0181	Pass	5180.0172	Pass	5180.0205	Pass	5180.0179	Pass
50	120	5179.9962	Pass	5179.9937	Pass	5179.9936	Pass	5179.9953	Pass
40	120	5180.0052	Pass	5180.0073	Pass	5180.0037	Pass	5180.0074	Pass
30	120	5179.9915	Pass	5179.9906	Pass	5179.9919	Pass	5179.9898	Pass
20	120	5179.9893	Pass	5179.9890	Pass	5179.9881	Pass	5179.9895	Pass
10	120	5180.0105	Pass	5180.0064	Pass	5180.0079	Pass	5180.0093	Pass
0	120	5180.0151	Pass	5180.0164	Pass	5180.0121	Pass	5180.0165	Pass
-10	120	5180.0103	Pass	5180.0148	Pass	5180.0135	Pass	5180.0140	Pass
-20	120	5179.9874	Pass	5179.9863	Pass	5179.9878	Pass	5179.9874	Pass
-30	120	5179.9998	Pass	5180.0031	Pass	5180.0027	Pass	5180.0010	Pass
-40	120	5179.9869	Pass	5179.9869	Pass	5179.9902	Pass	5179.9868	Pass

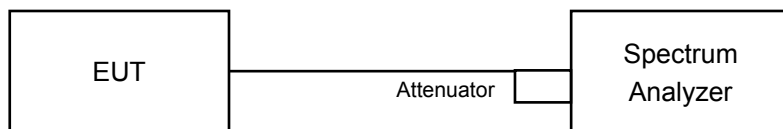
Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5179.9899	Pass	5179.9884	Pass	5179.9883	Pass	5179.9895	Pass
	120	5179.9893	Pass	5179.9890	Pass	5179.9881	Pass	5179.9895	Pass
	102	5179.9903	Pass	5179.9888	Pass	5179.9880	Pass	5179.9903	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

Test Mode A

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	16.39	16.41	0.5	Pass
157	5785	16.39	16.42	0.5	Pass
165	5825	16.39	16.42	0.5	Pass

802.11ac (VHT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	17.61	17.63	0.5	Pass
157	5785	17.64	17.63	0.5	Pass
165	5825	17.63	17.63	0.5	Pass

802.11ac (VHT40)

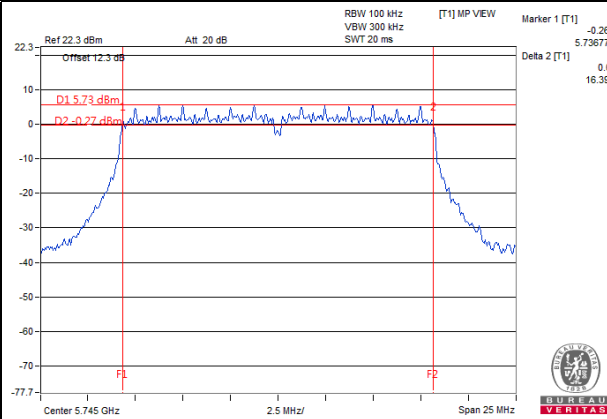
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	35.27	35.24	0.5	Pass
159	5795	35.40	35.25	0.5	Pass

802.11ac (VHT80)

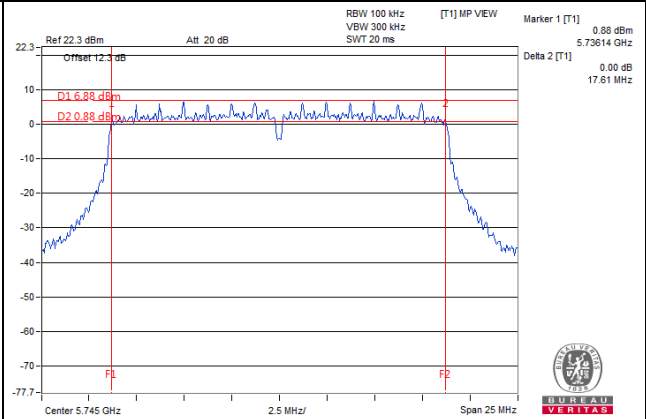
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	75.67	75.50	0.5	Pass

Spectrum Plot of Worst Value

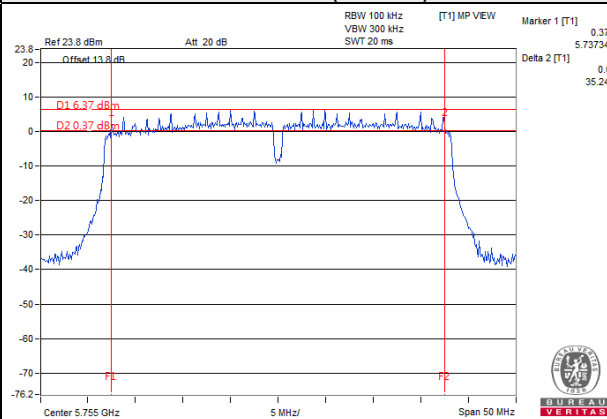
802.11a



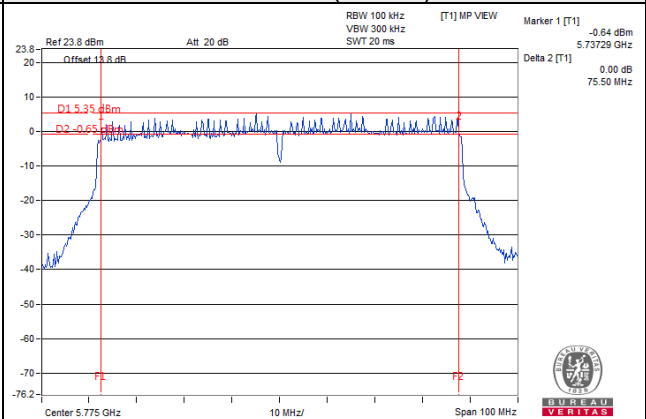
802.11ac (VHT20)



802.11ac (VHT40)



802.11ac (VHT80)



Test Mode B

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	16.41	16.38	0.5	Pass
157	5785	16.41	16.41	0.5	Pass
165	5825	16.42	16.42	0.5	Pass

802.11ac (VHT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	17.63	17.63	0.5	Pass
157	5785	17.63	17.63	0.5	Pass
165	5825	17.62	17.63	0.5	Pass

802.11ac (VHT40)

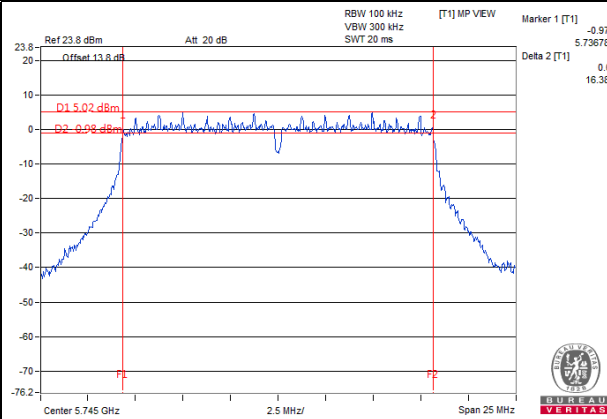
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	35.27	35.25	0.5	Pass
159	5795	35.27	35.27	0.5	Pass

802.11ac (VHT80)

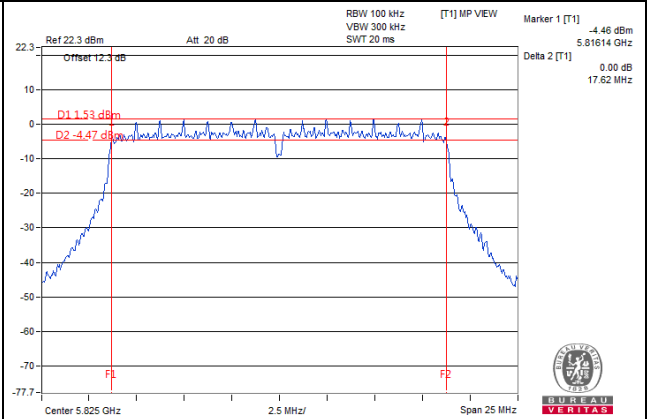
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	75.59	75.54	0.5	Pass

Spectrum Plot of Worst Value

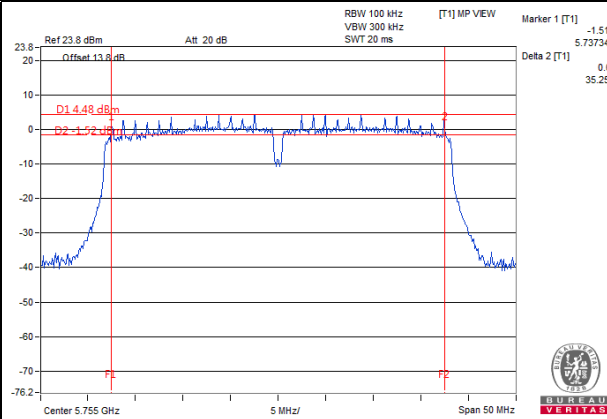
802.11a



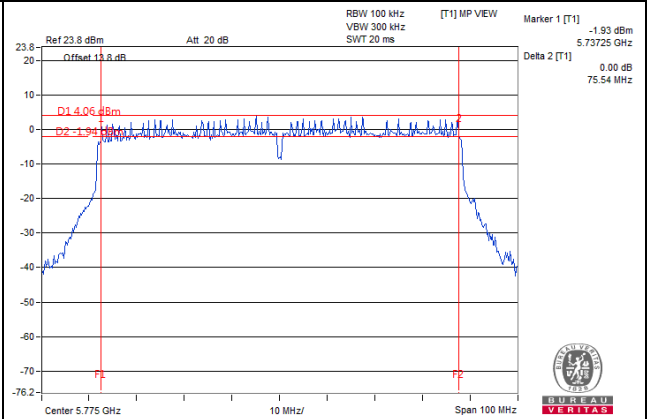
802.11ac (VHT20)



802.11ac (VHT40)



802.11ac (VHT80)



Test Mode C

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	16.41	16.38	0.5	Pass
157	5785	16.41	16.41	0.5	Pass
165	5825	16.42	16.42	0.5	Pass

802.11ac (VHT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	17.63	17.63	0.5	Pass
157	5785	17.63	17.63	0.5	Pass
165	5825	17.62	17.63	0.5	Pass

802.11ac (VHT40)

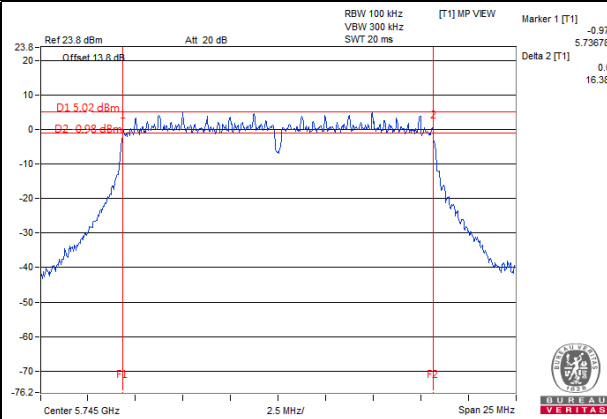
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	35.27	35.25	0.5	Pass
159	5795	35.27	35.27	0.5	Pass

802.11ac (VHT80)

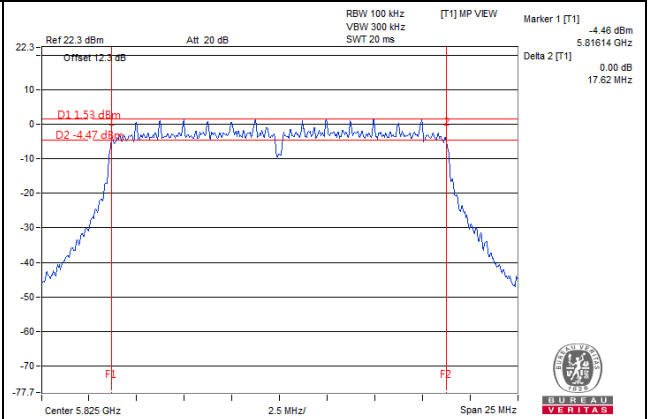
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	75.59	75.54	0.5	Pass

Spectrum Plot of Worst Value

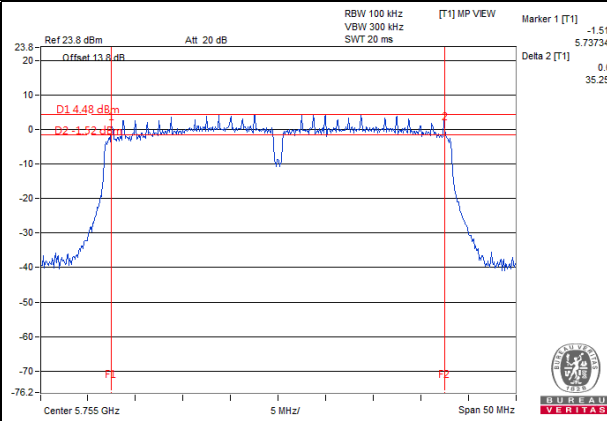
802.11a



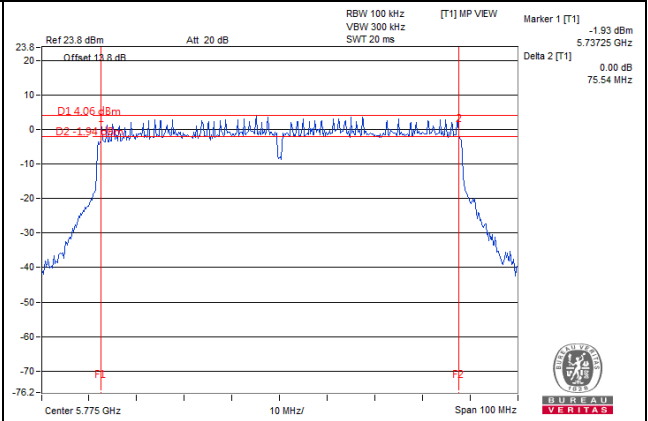
802.11ac (VHT20)



802.11ac (VHT40)



802.11ac (VHT80)



5 Pictures of Test Arrangements

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

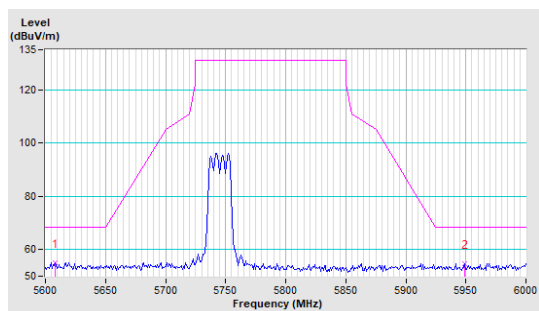
Annex A- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

Test Mode A

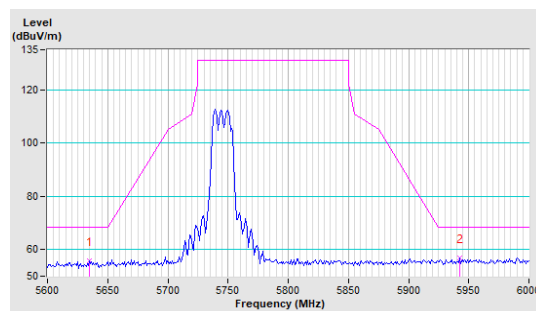
802.11a

CH 149 5745 MHz

Horizontal

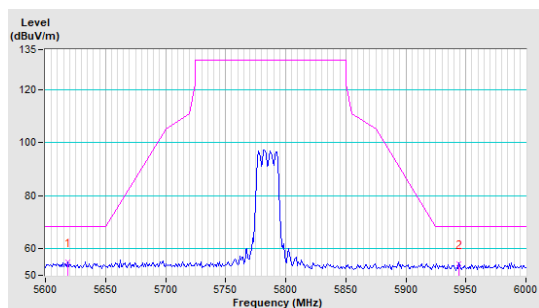


Vertical

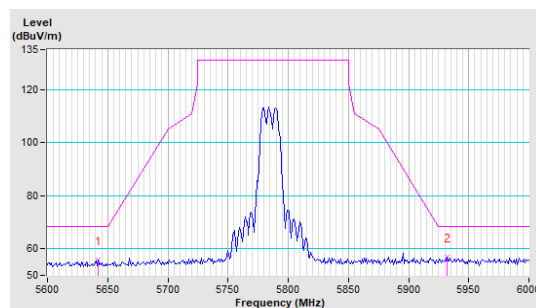


CH 157 5785 MHz

Horizontal

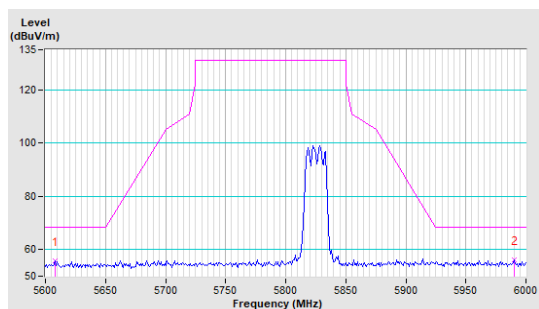


Vertical

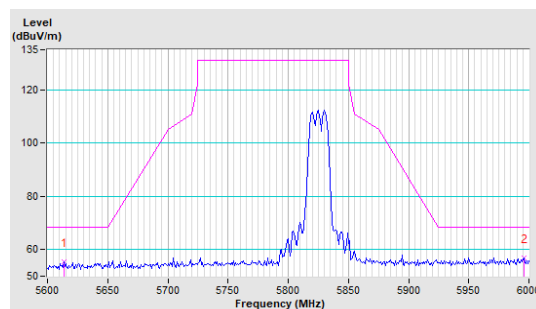


CH 165 5825 MHz

Horizontal



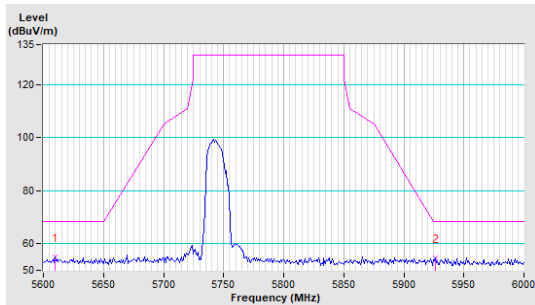
Vertical



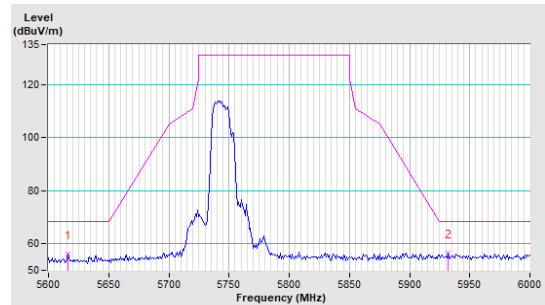
802.11ac (VHT20)

CH 149 5745 MHz

Horizontal

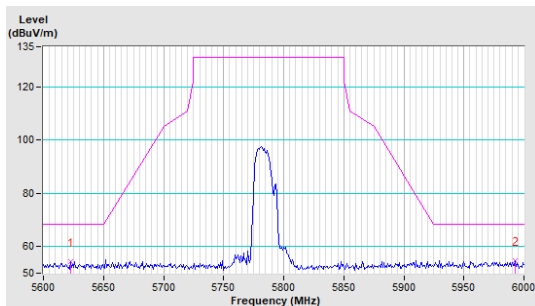


Vertical

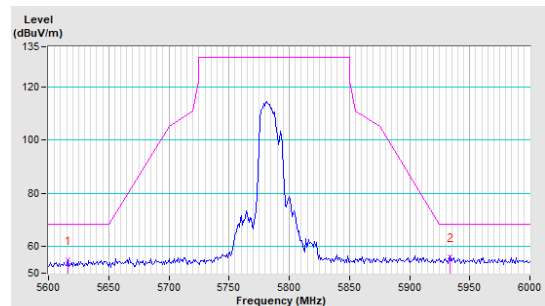


CH 157 5785 MHz

Horizontal

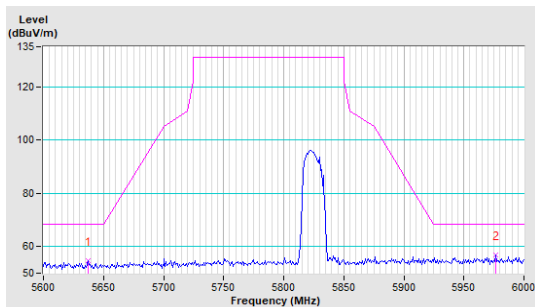


Vertical

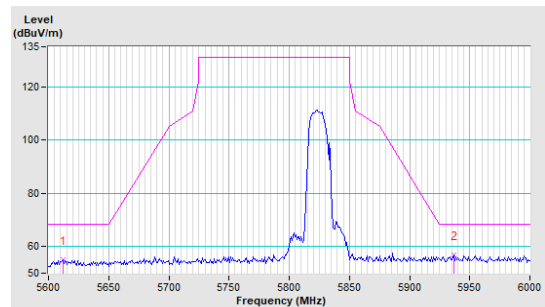


CH 165 5825 MHz

Horizontal



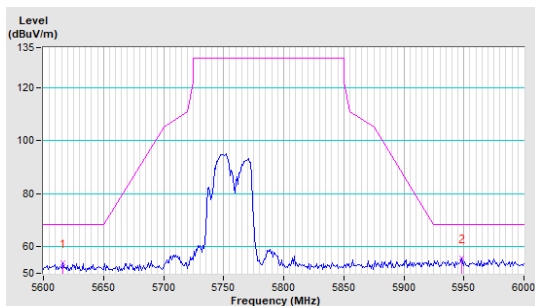
Vertical



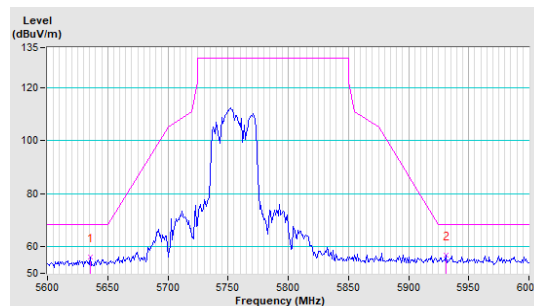
802.11ac (VHT40)

CH 151 5755 MHz

Horizontal

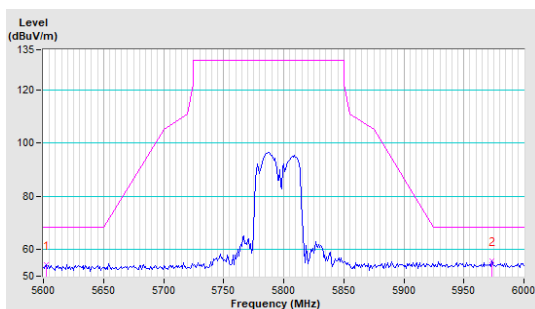


Vertical

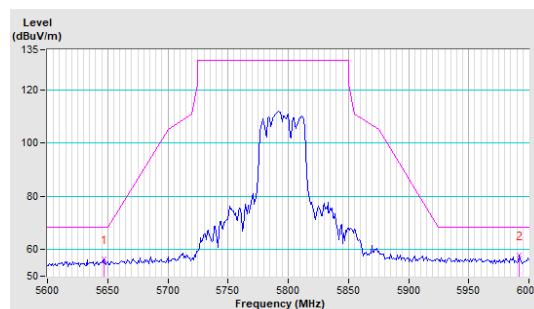


CH 159 5795 MHz

Horizontal



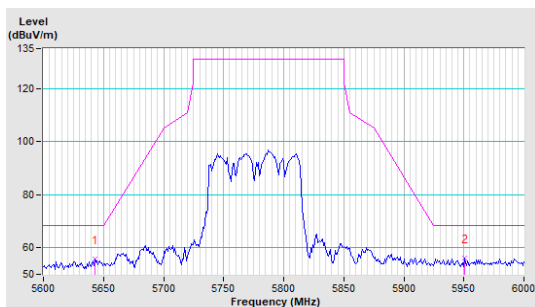
Vertical



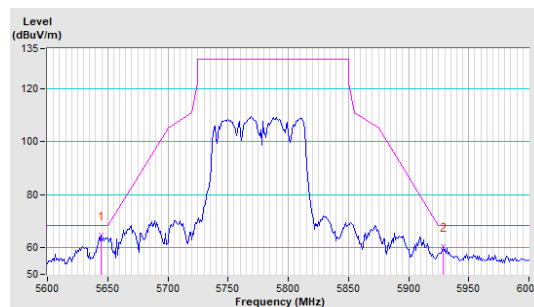
802.11ac (VHT80)

CH 155 5775 MHz

Horizontal



Vertical

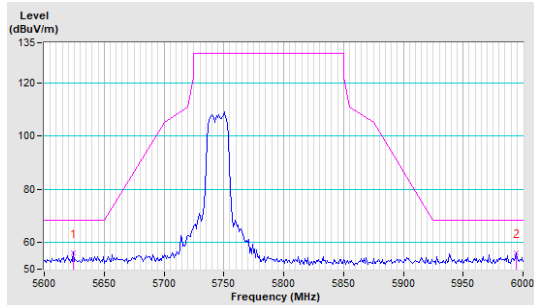


Test Mode B

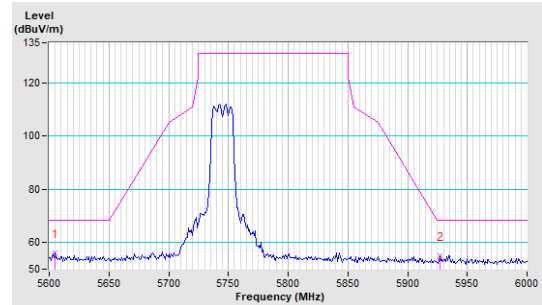
802.11a

CH 149 5745 MHz

Horizontal

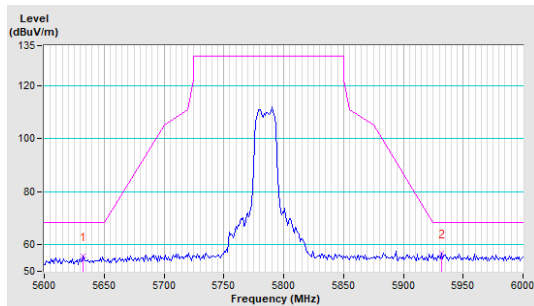


Vertical

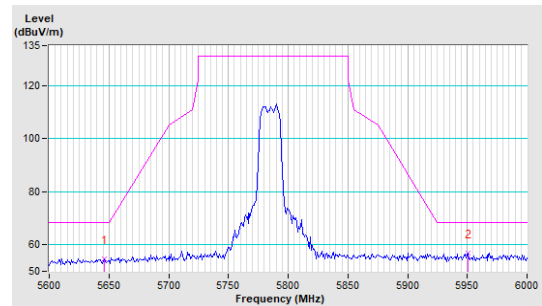


CH 157 5785 MHz

Horizontal

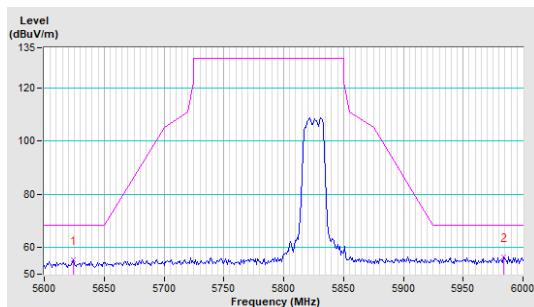


Vertical

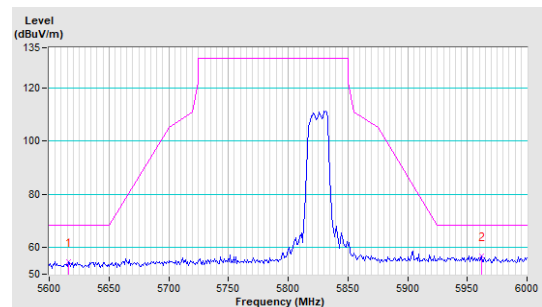


CH 165 5825 MHz

Horizontal



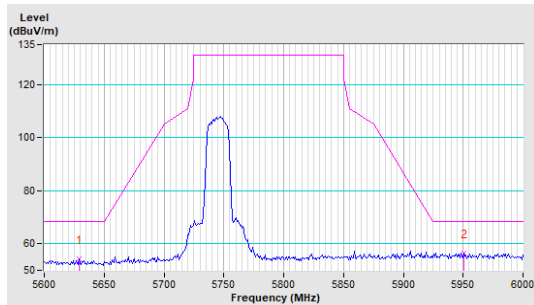
Vertical



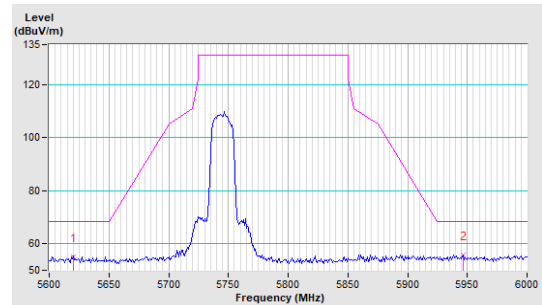
802.11ac (VHT20)

CH 149 5745 MHz

Horizontal

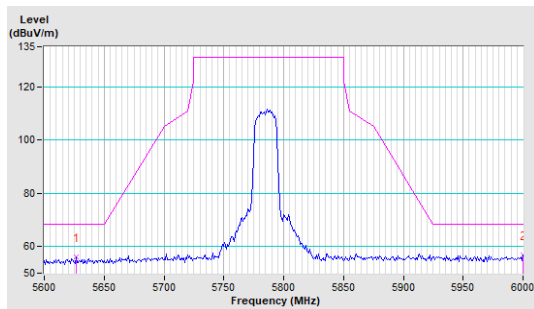


Vertical

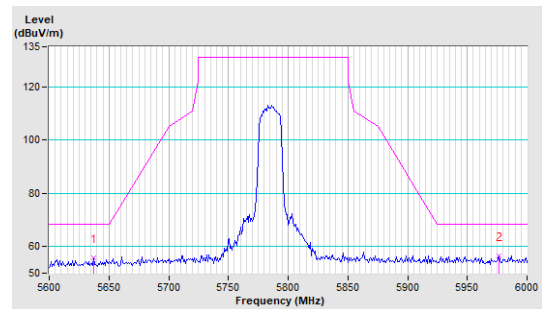


CH 157 5785 MHz

Horizontal

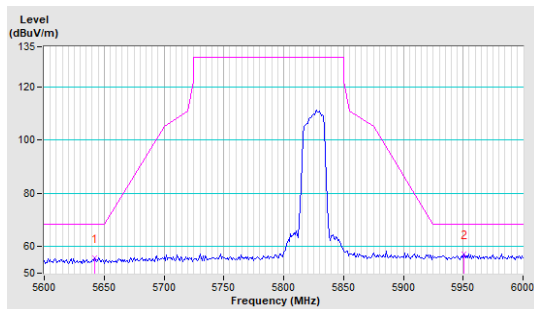


Vertical

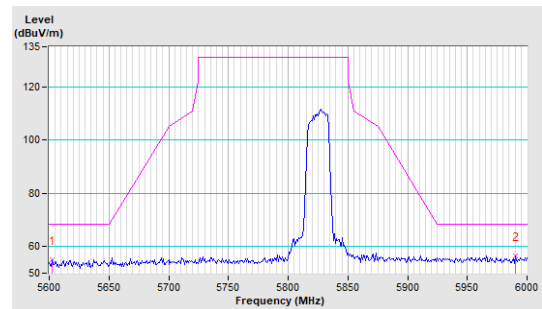


CH 165 5825 MHz

Horizontal



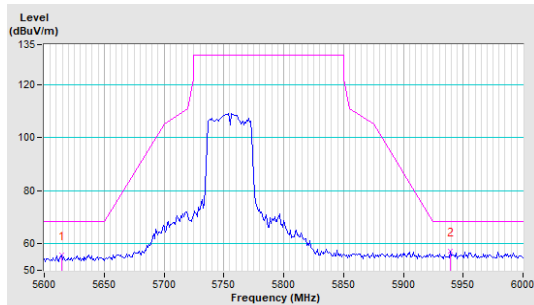
Vertical



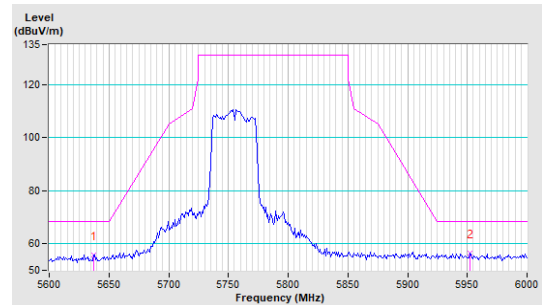
802.11ac (VHT40)

CH 151 5755 MHz

Horizontal

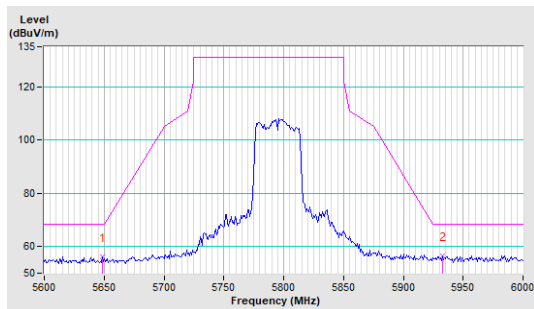


Vertical

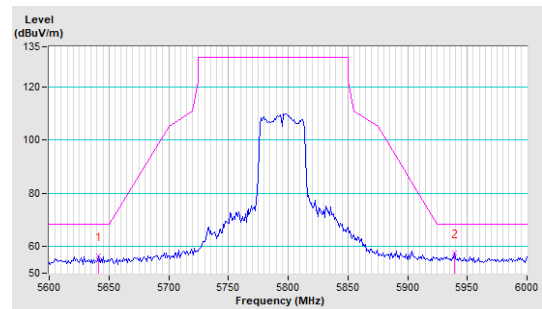


CH 159 5795 MHz

Horizontal



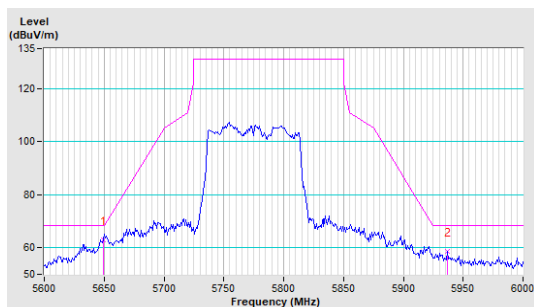
Vertical



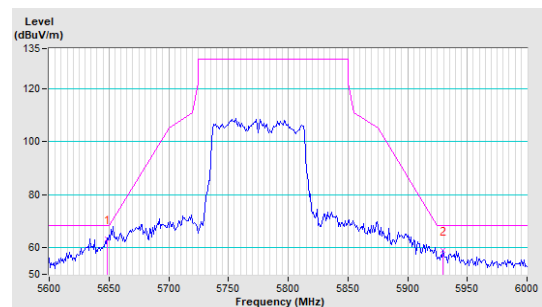
802.11ac (VHT80)

CH 155 5775 MHz

Horizontal



Vertical

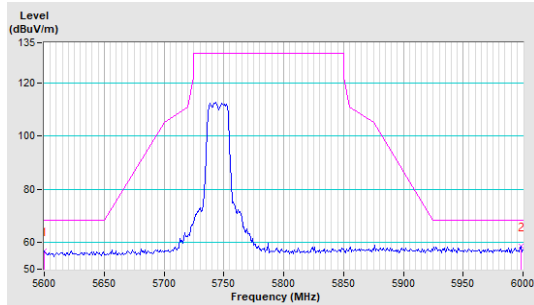


Test Mode C

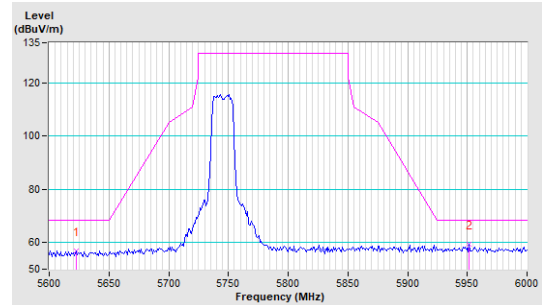
802.11a

CH 149 5745 MHz

Horizontal

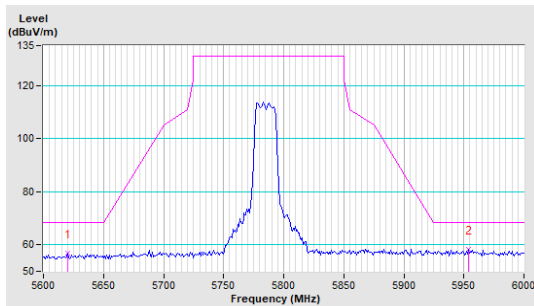


Vertical

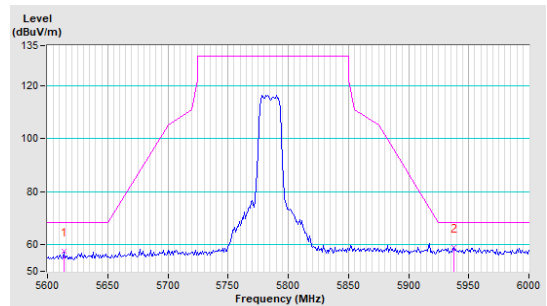


CH 157 5785 MHz

Horizontal

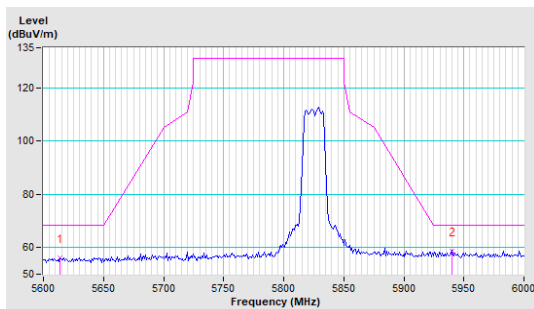


Vertical

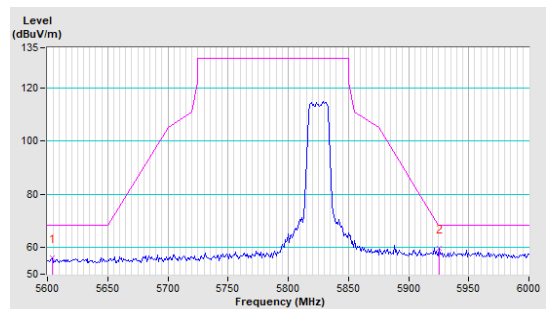


CH 165 5825 MHz

Horizontal



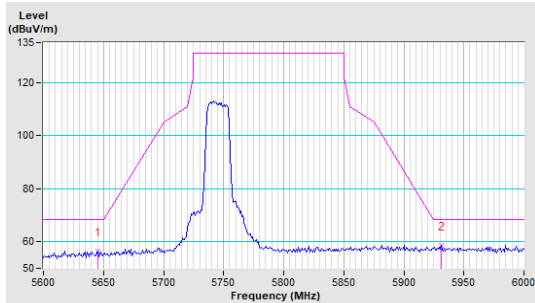
Vertical



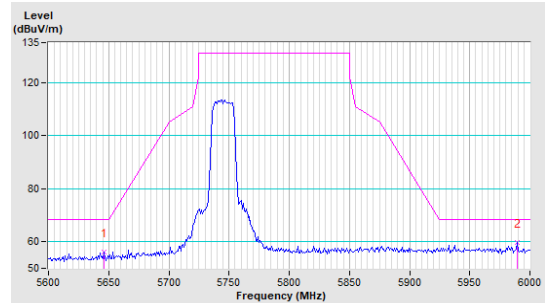
802.11ac (VHT20)

CH 149 5745 MHz

Horizontal

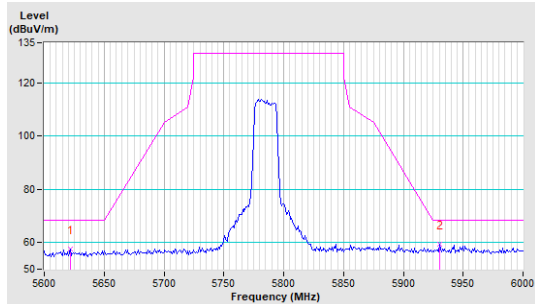


Vertical

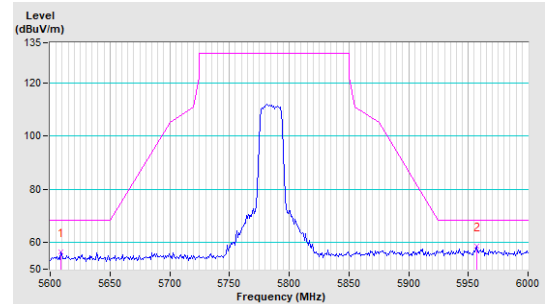


CH 157 5785 MHz

Horizontal

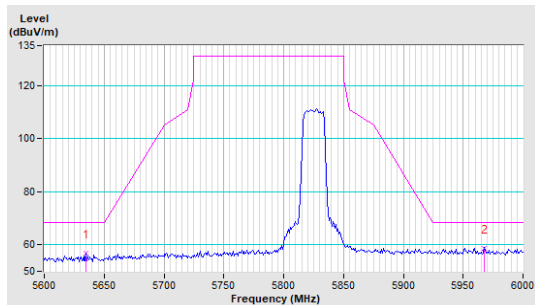


Vertical

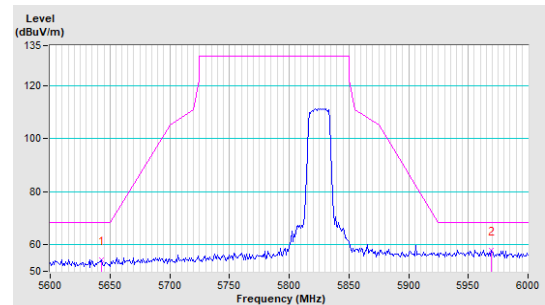


CH 165 5825 MHz

Horizontal



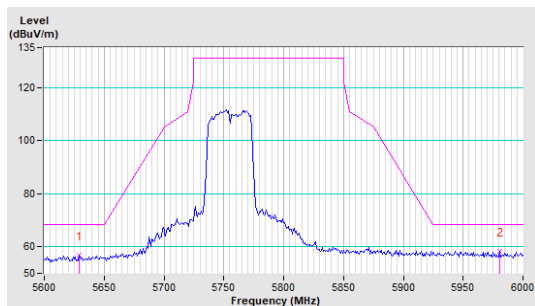
Vertical



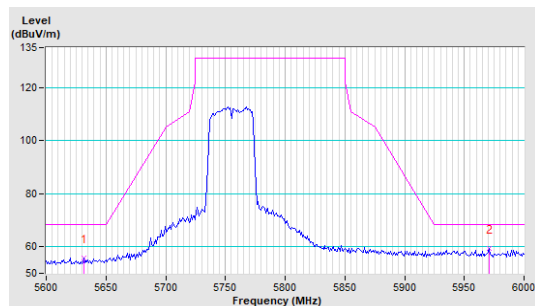
802.11ac (VHT40)

CH 151 5755 MHz

Horizontal

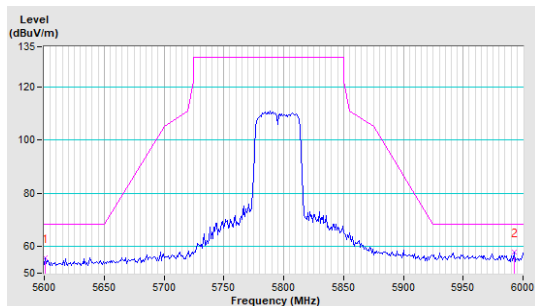


Vertical

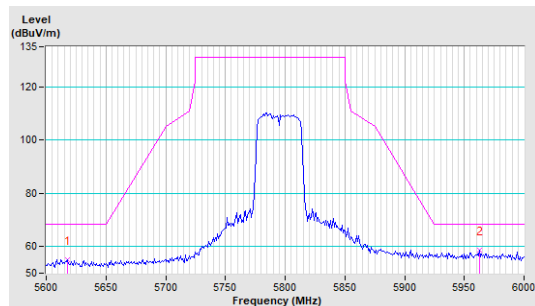


CH 159 5795 MHz

Horizontal



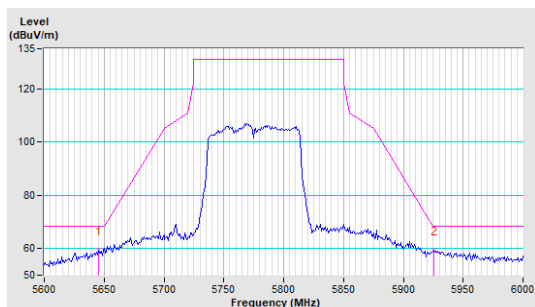
Vertical



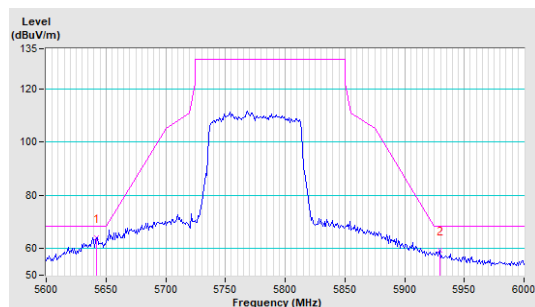
802.11ac (VHT80)

CH 155 5775 MHz

Horizontal



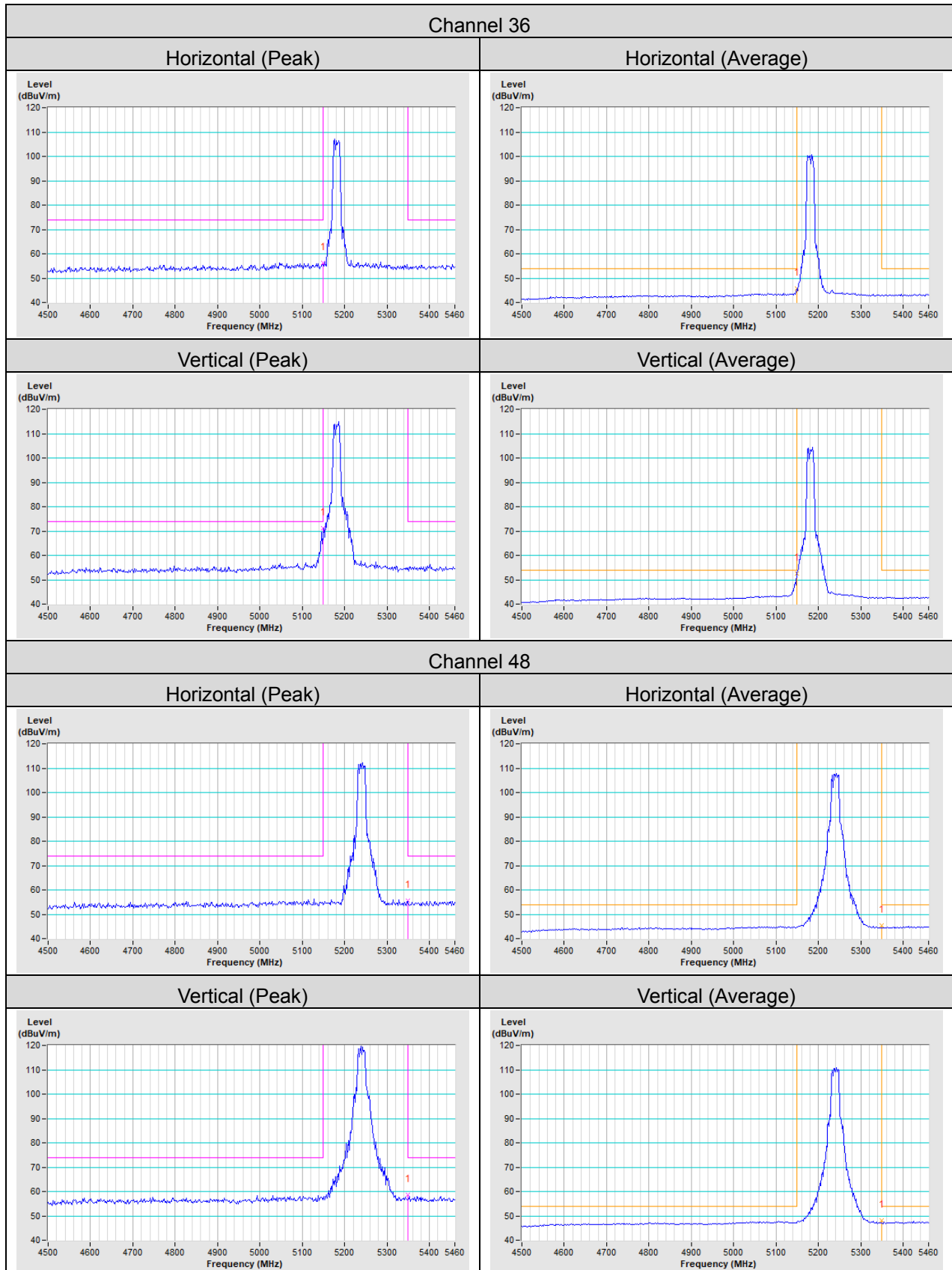
Vertical



Annex B- Band Edge Measurement

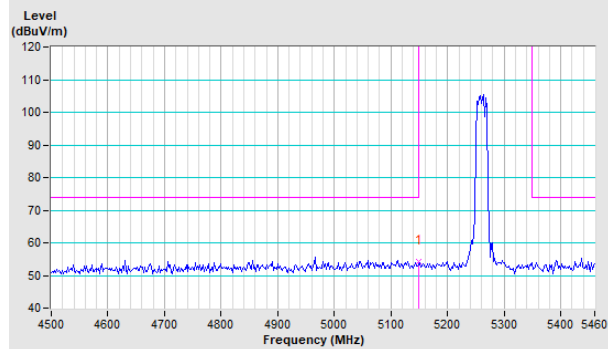
Test Mode A

802.11a

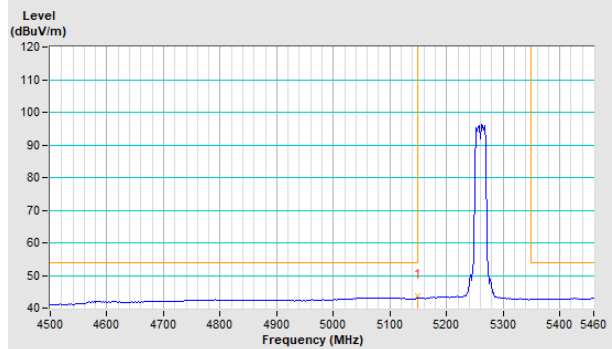


Channel 52

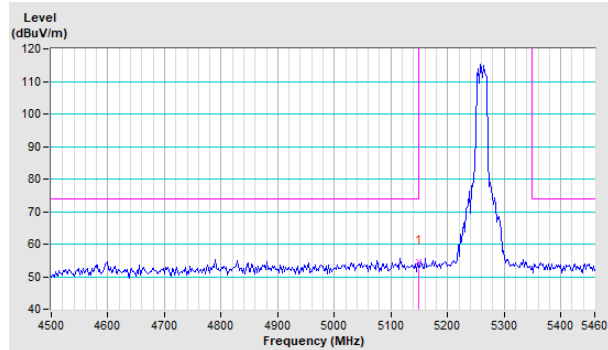
Horizontal (Peak)



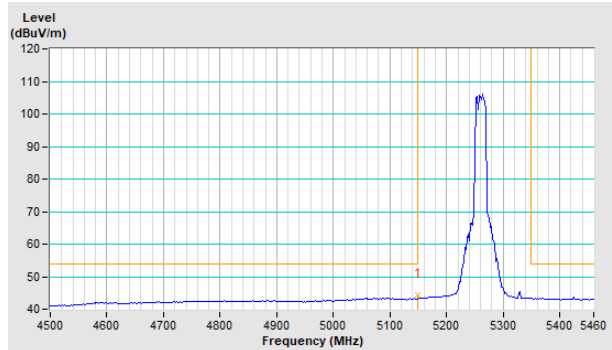
Horizontal (Average)



Vertical (Peak)

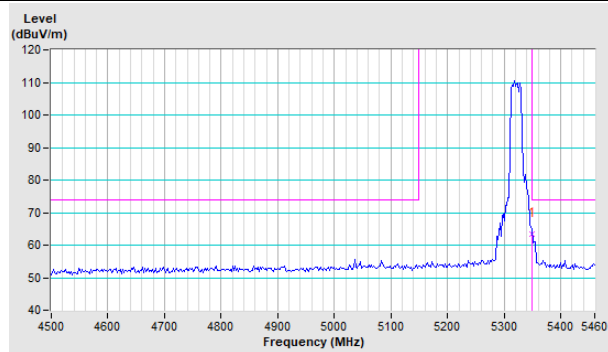


Vertical (Average)

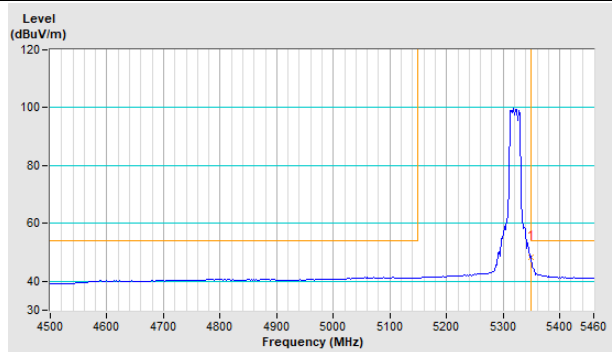


Channel 64

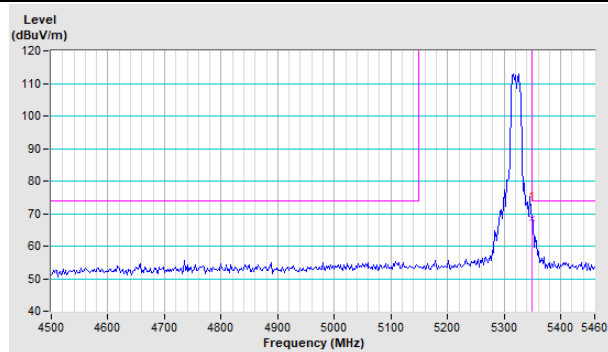
Horizontal (Peak)



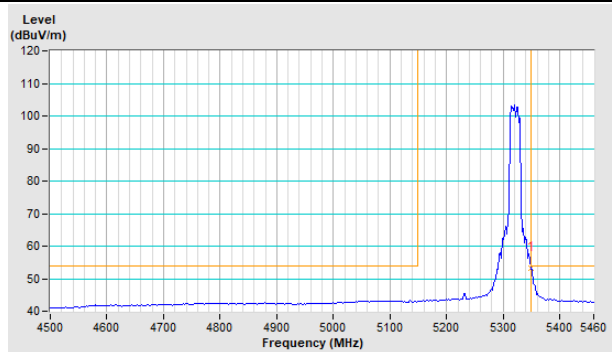
Horizontal (Average)



Vertical (Peak)

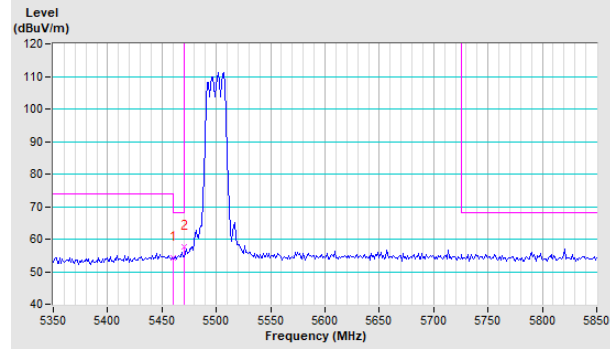


Vertical (Average)

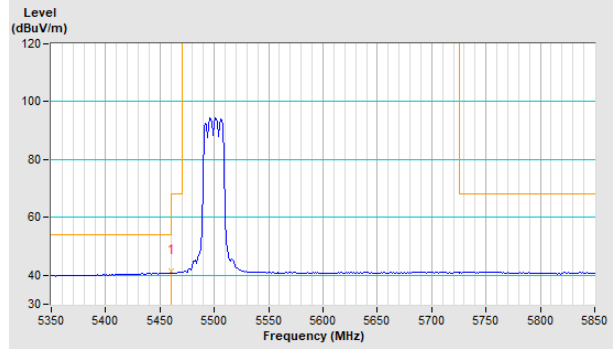


Channel 100

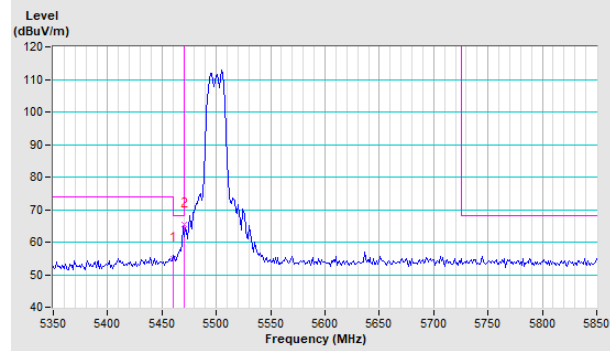
Horizontal (Peak)



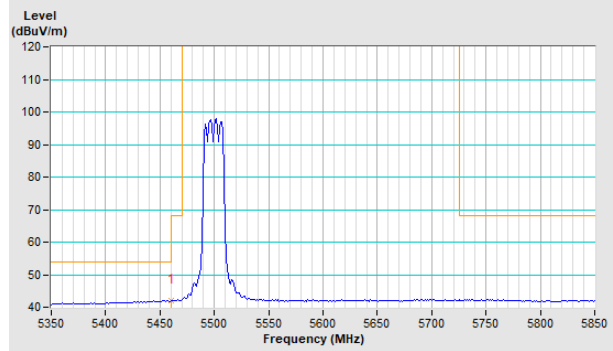
Horizontal (Average)



Vertical (Peak)

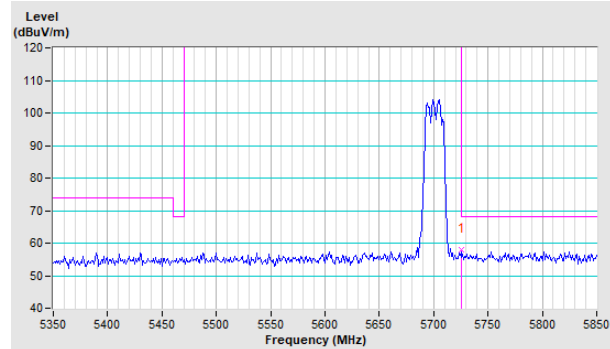


Vertical (Average)

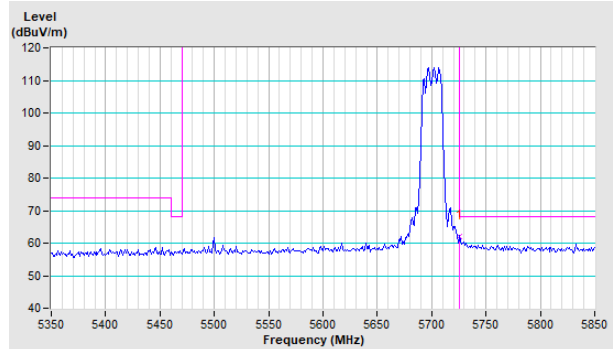


Channel 140

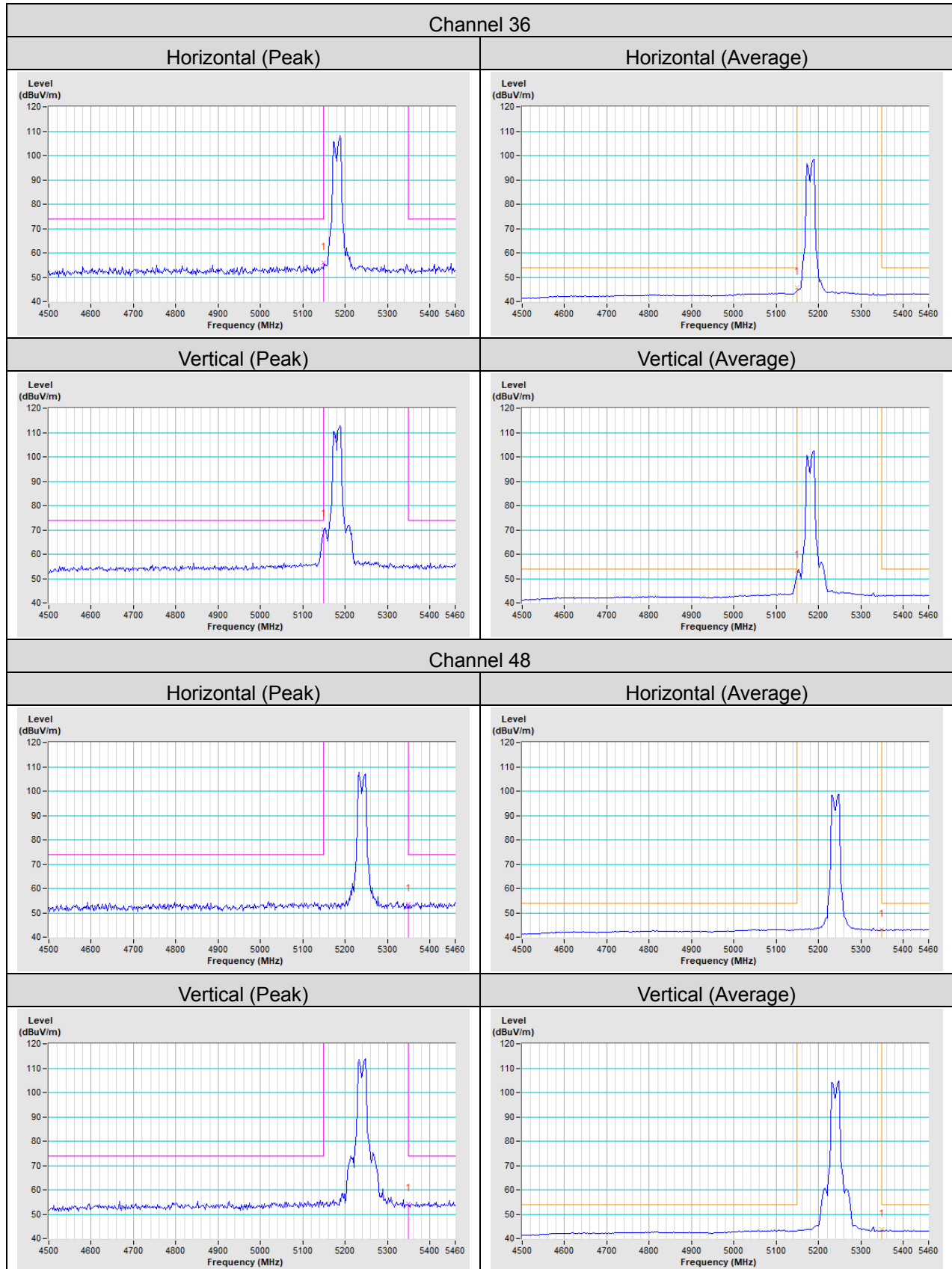
Horizontal (Average)



Vertical (Average)

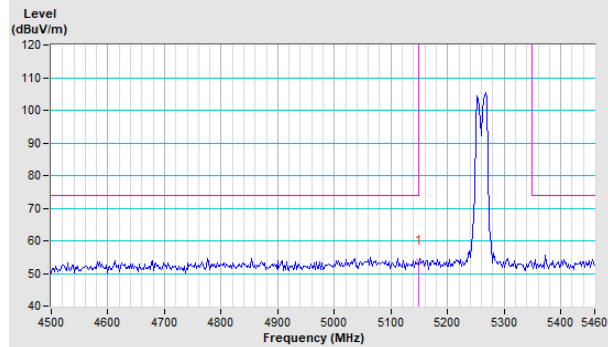


802.11ac (VHT20)

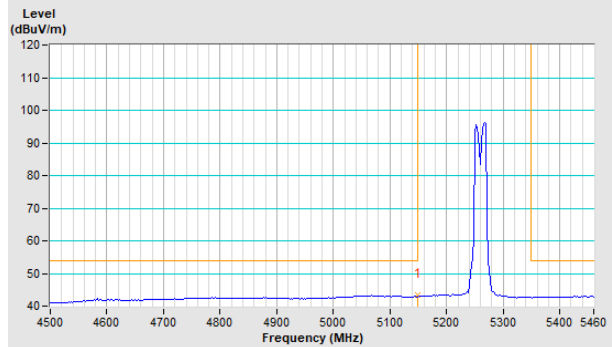


Channel 52

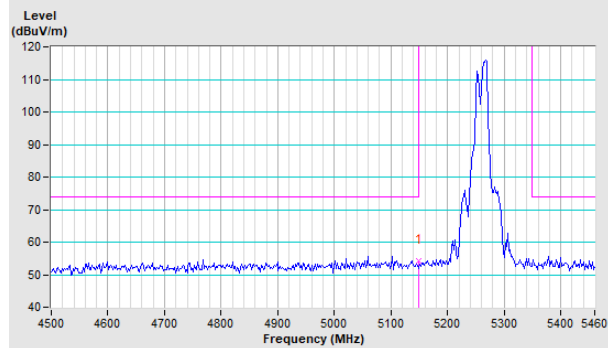
Horizontal (Peak)



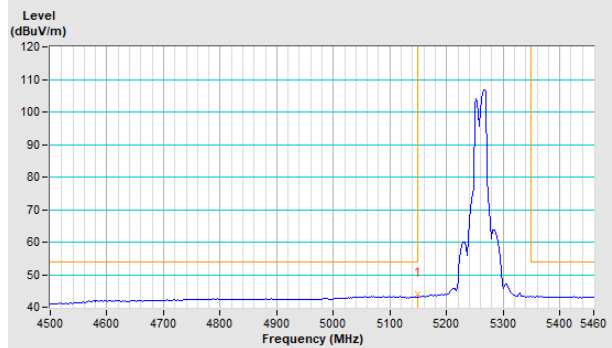
Horizontal (Average)



Vertical (Peak)

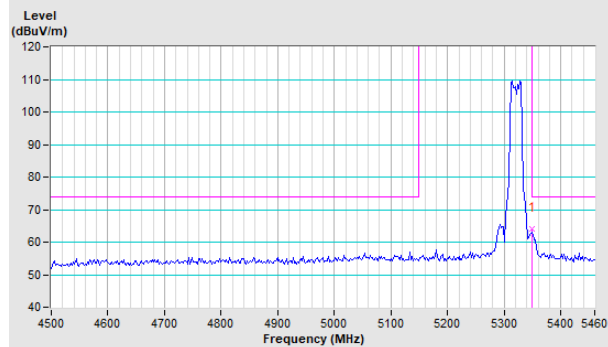


Vertical (Average)

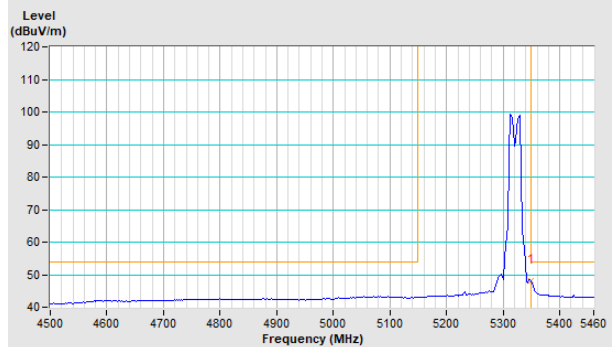


Channel 64

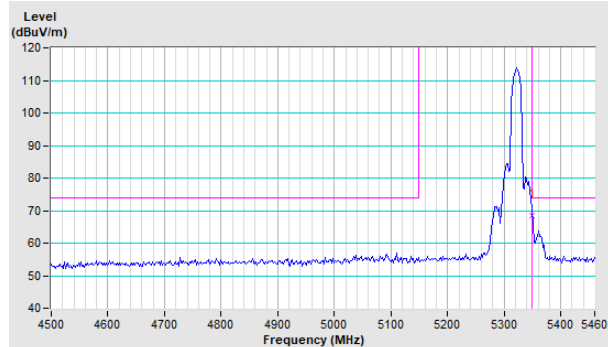
Horizontal (Peak)



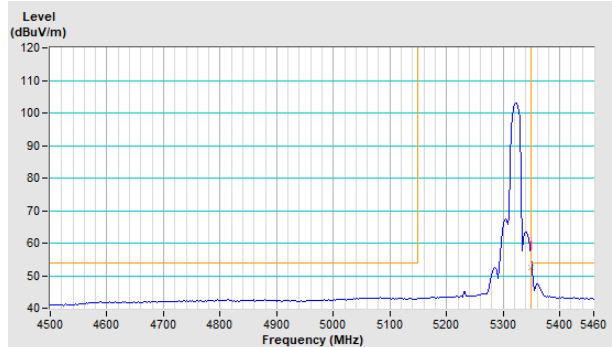
Horizontal (Average)



Vertical (Peak)

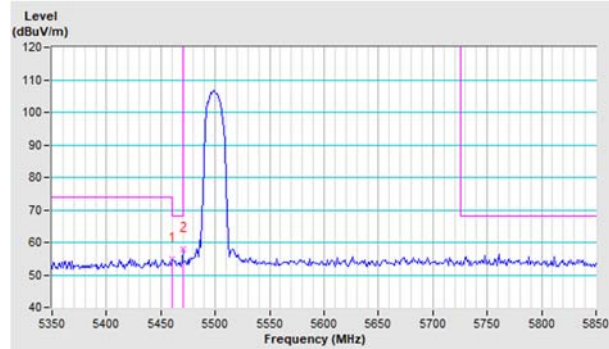


Vertical (Average)

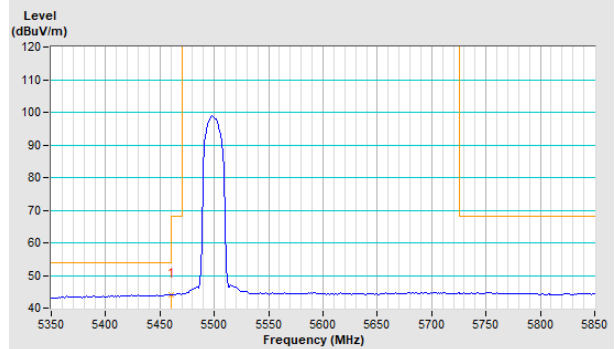


Channel 100

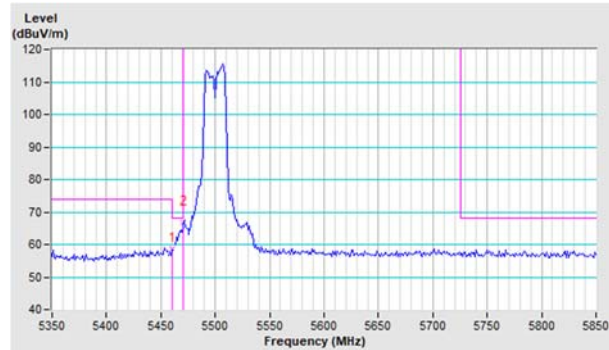
Horizontal (Peak)



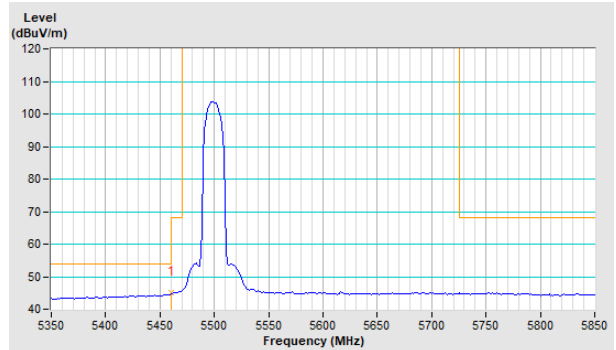
Horizontal (Average)



Vertical (Peak)

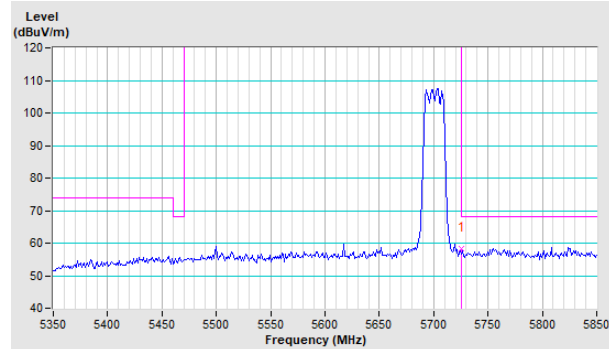


Vertical (Average)

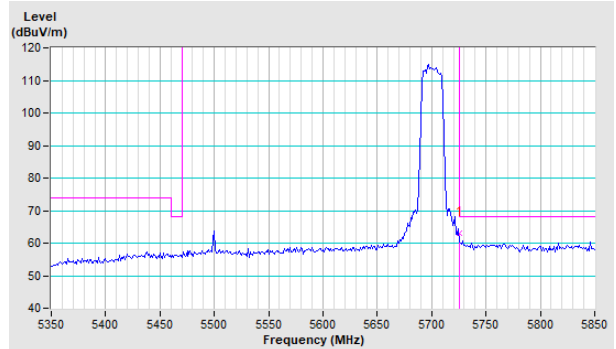


Channel 140

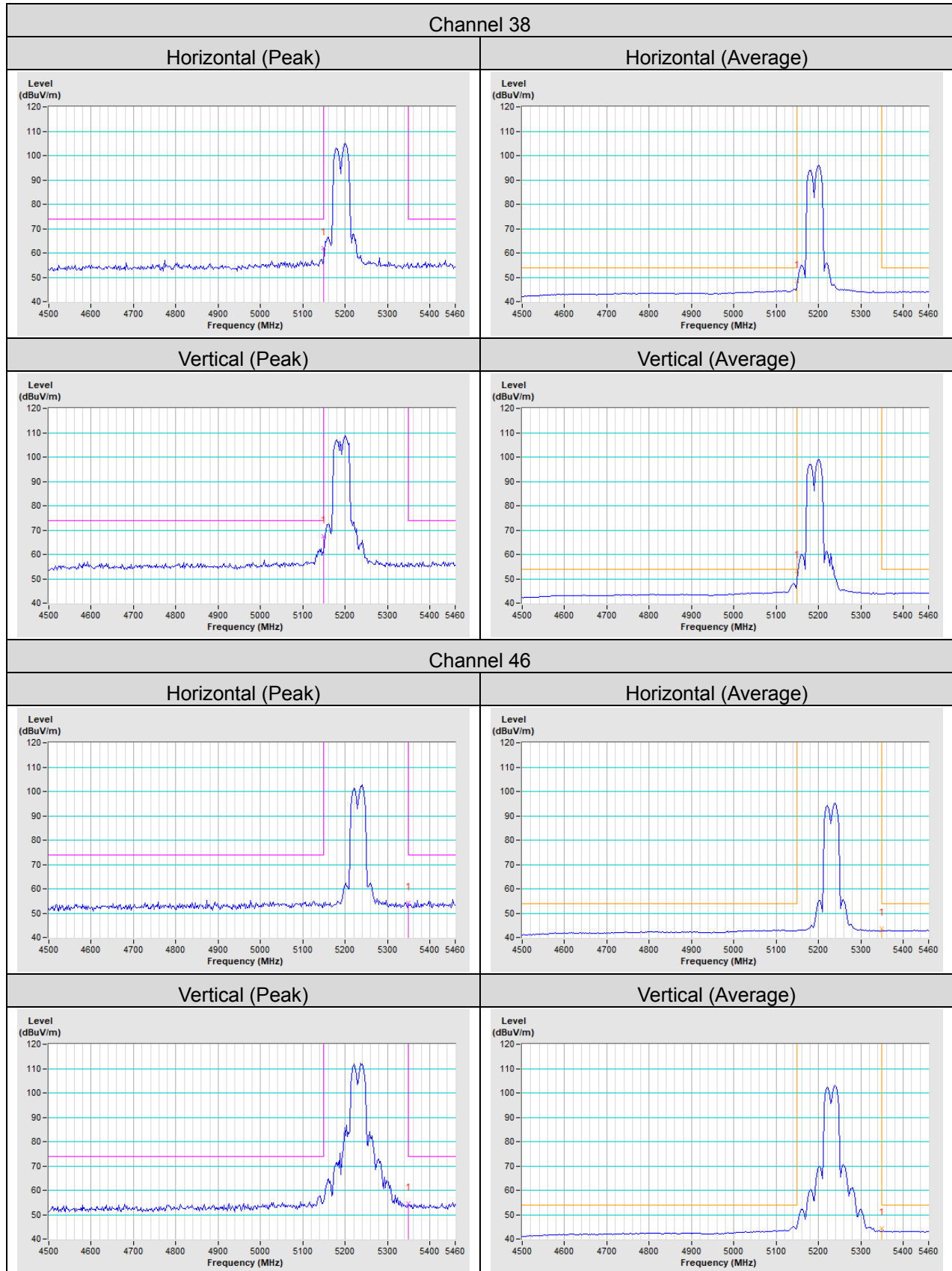
Horizontal (Average)



Vertical (Average)

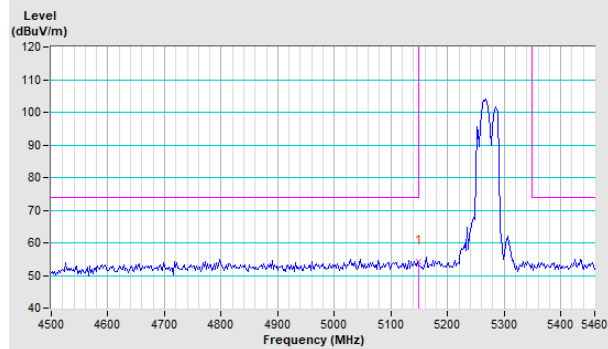


802.11ac (VHT40)

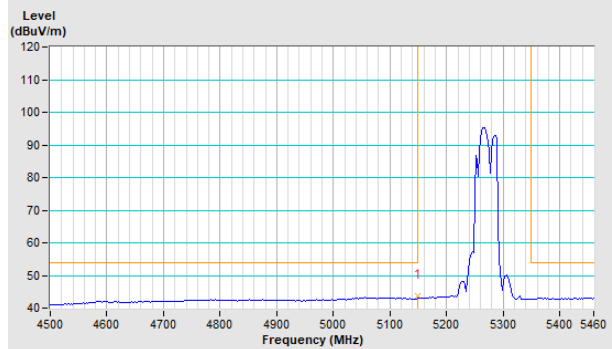


Channel 54

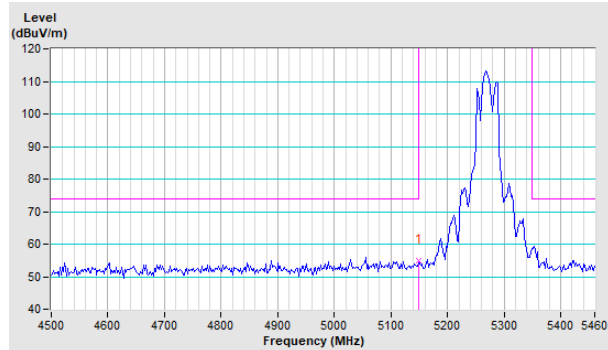
Horizontal (Peak)



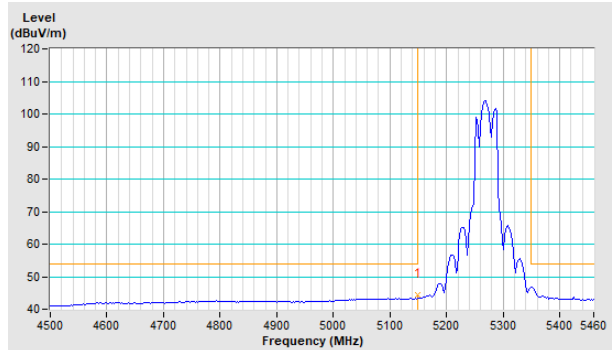
Horizontal (Average)



Vertical (Peak)

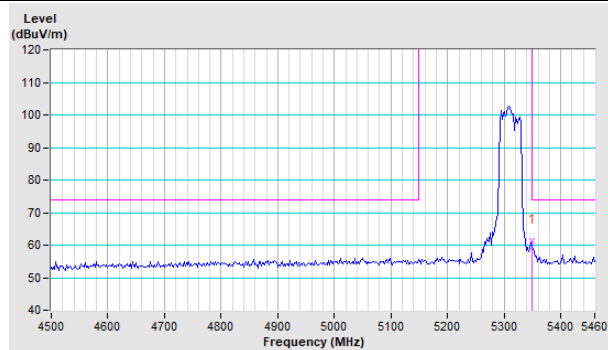


Vertical (Average)

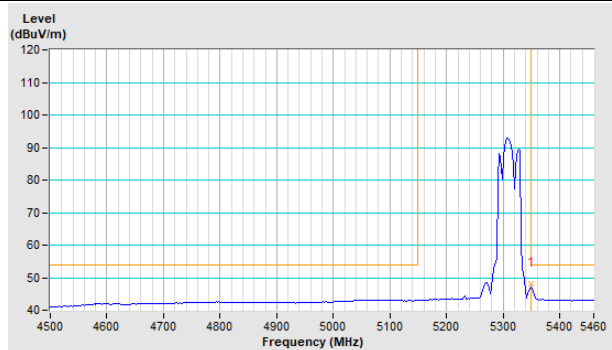


Channel 62

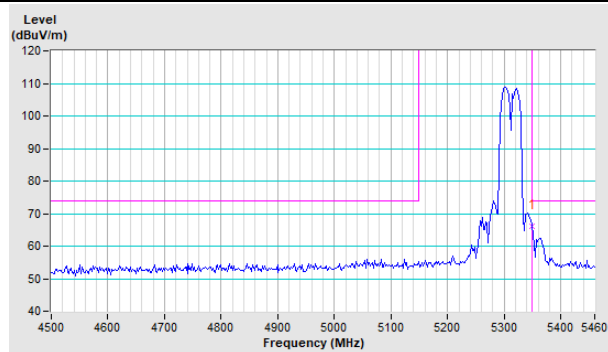
Horizontal (Peak)



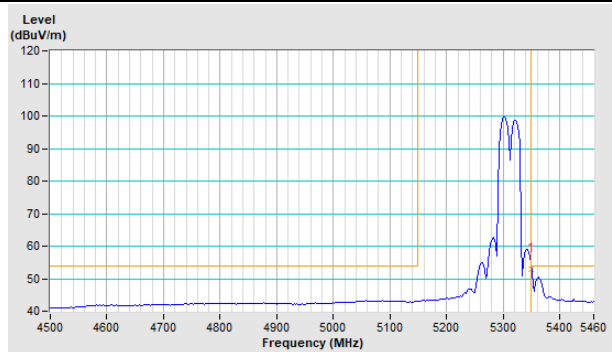
Horizontal (Average)

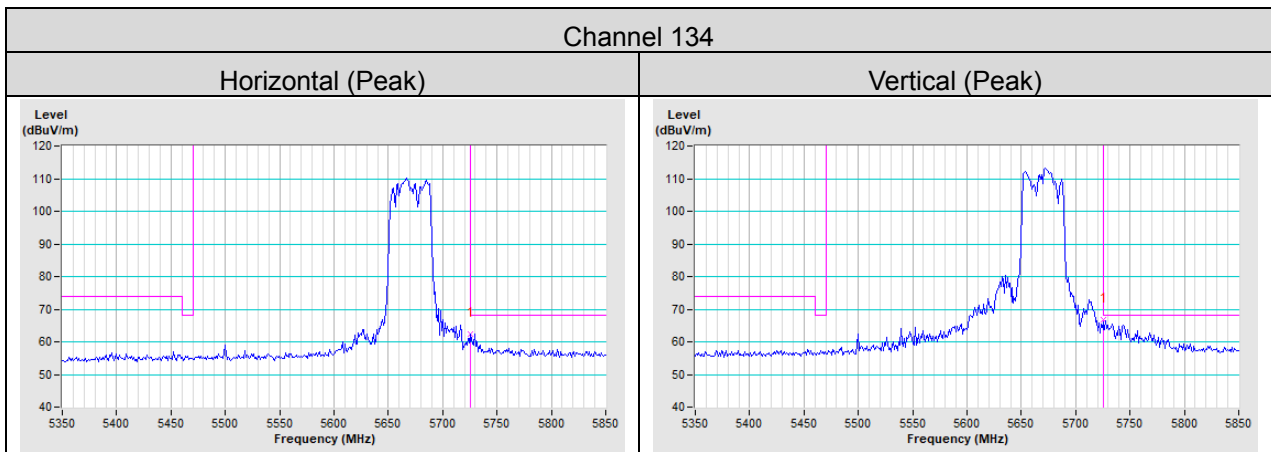
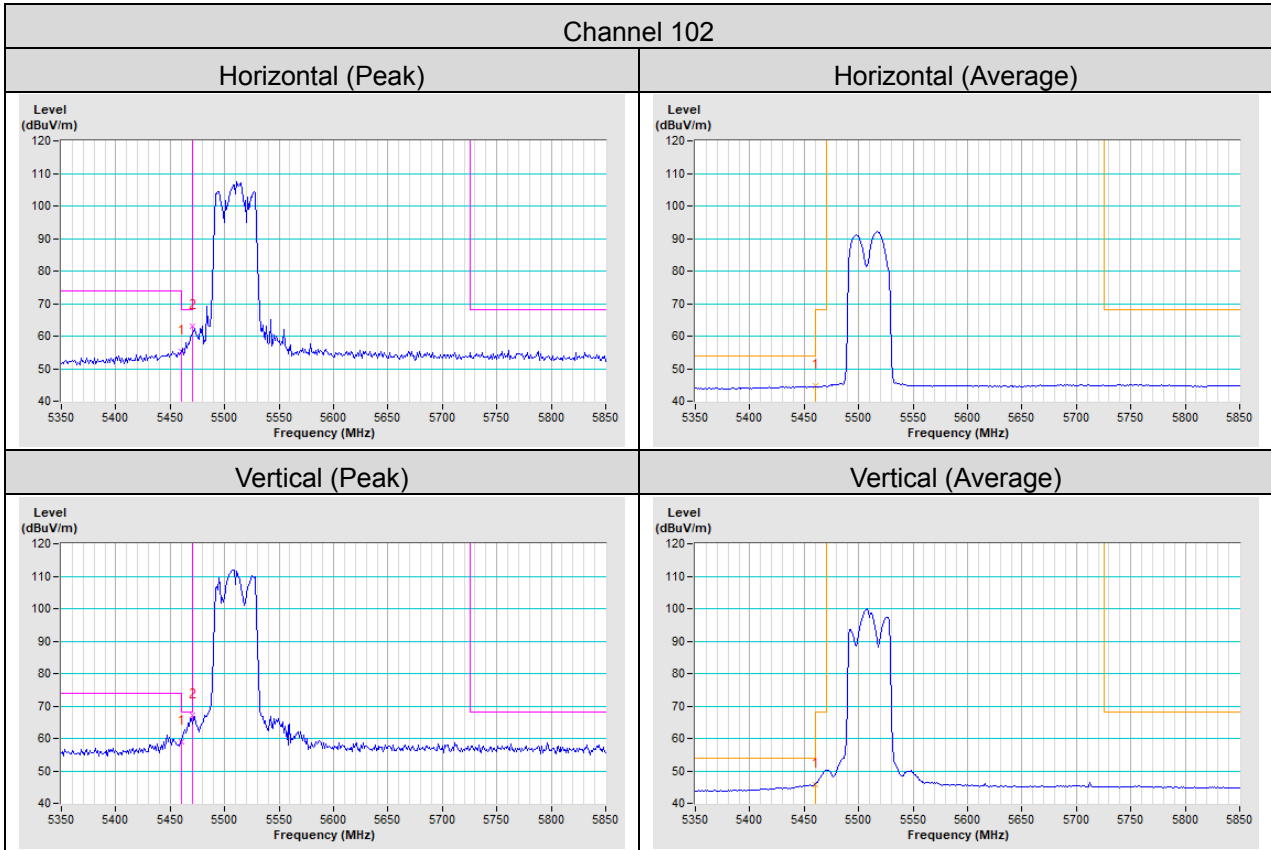


Vertical (Peak)

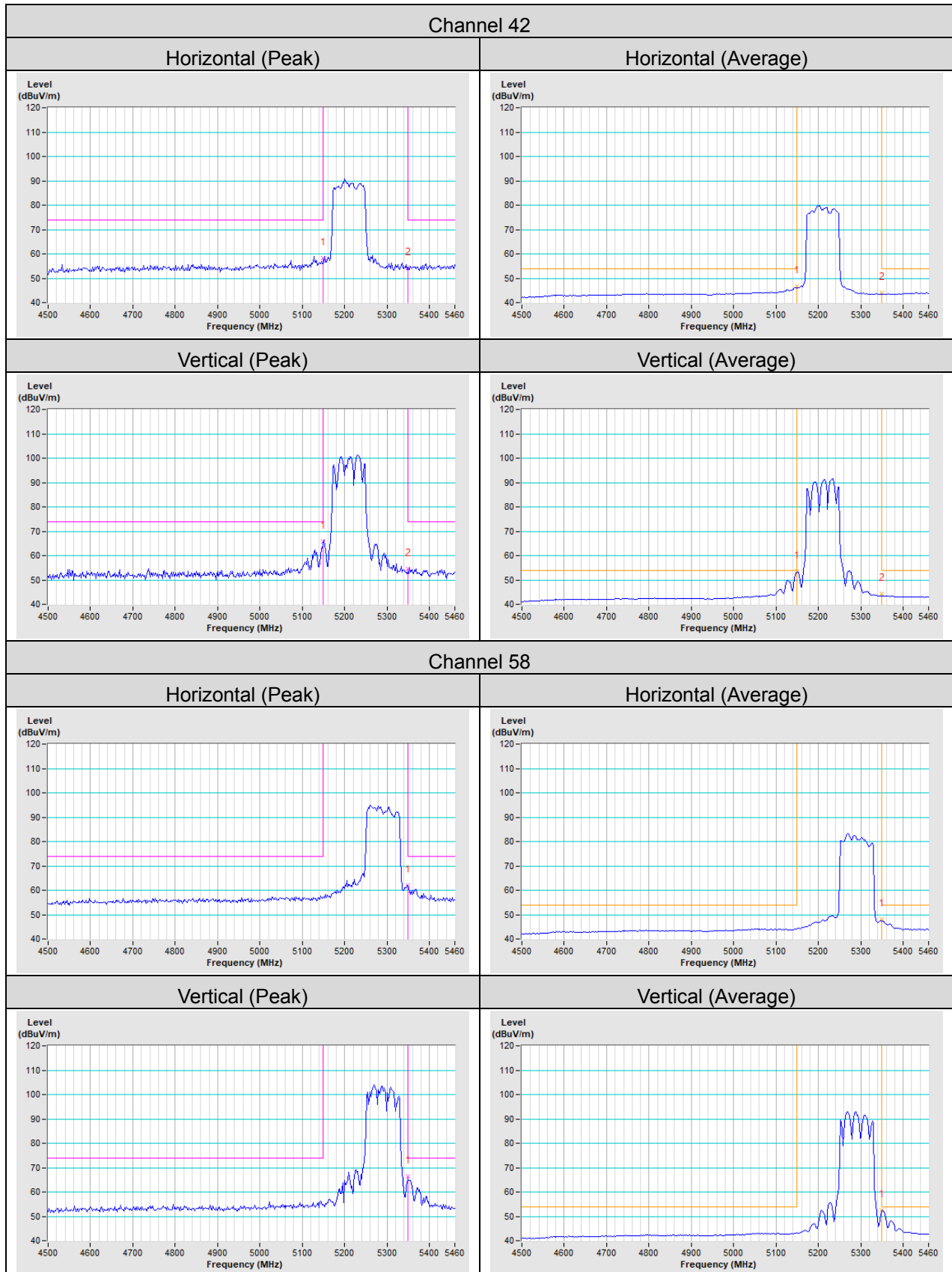


Vertical (Average)



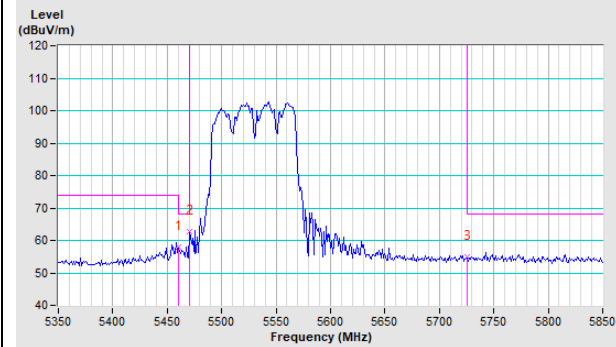


802.11ac (VHT80)

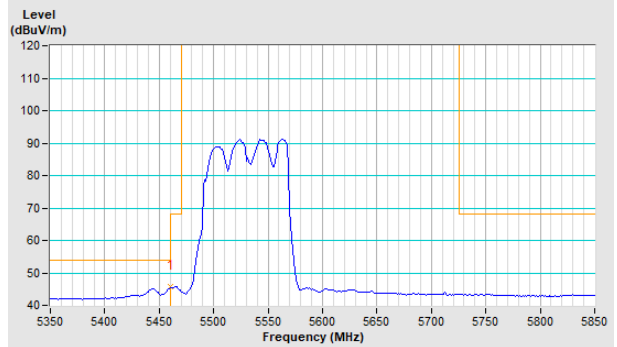


Channel 106

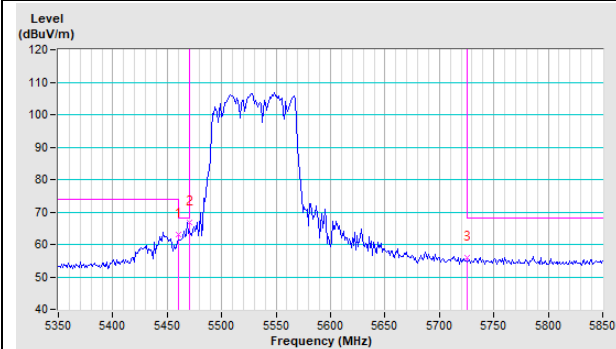
Horizontal (Peak)



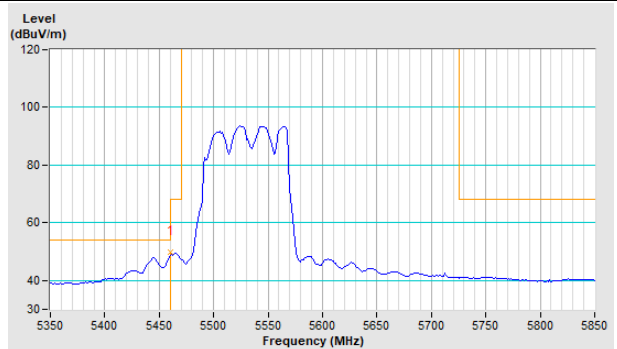
Horizontal (Average)



Vertical (Peak)

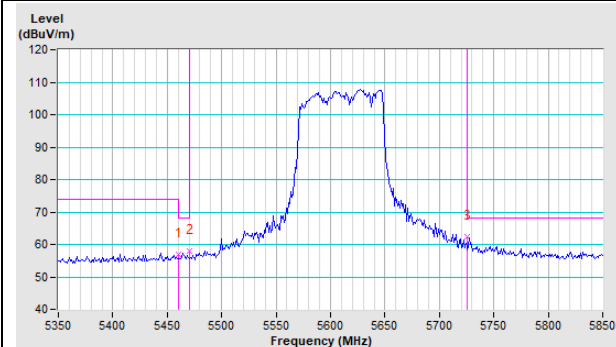


Vertical (Average)

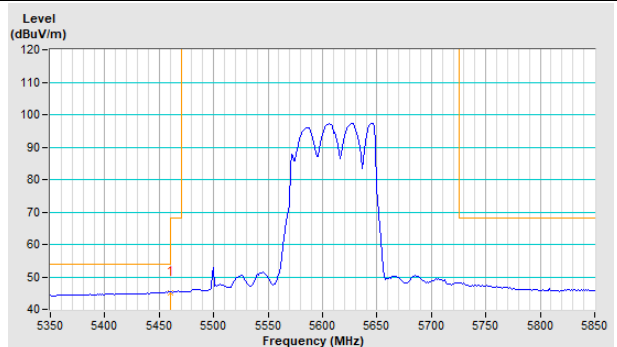


Channel 122

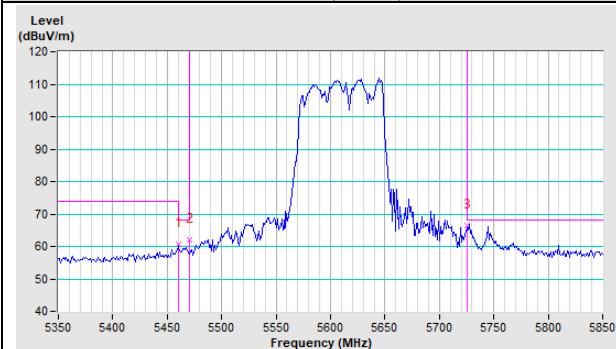
Horizontal (Peak)



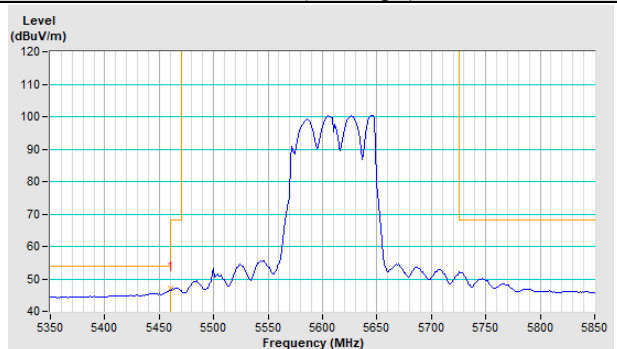
Horizontal (Average)



Vertical (Peak)

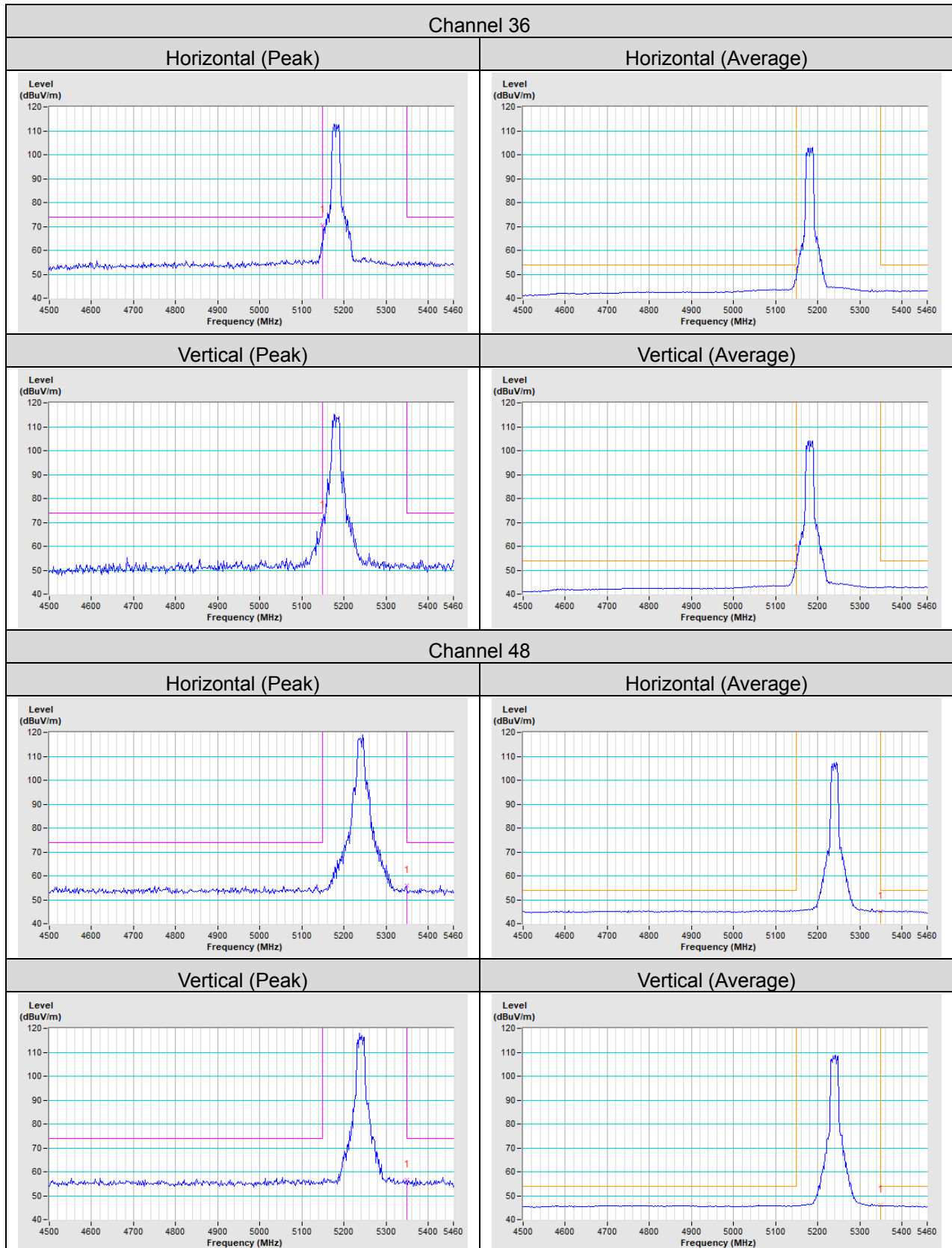


Vertical (Average)



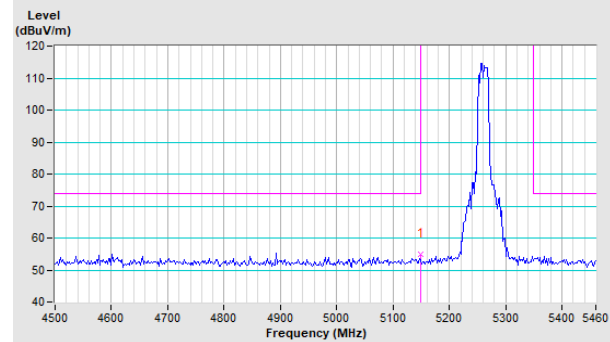
Test Mode B

802.11a

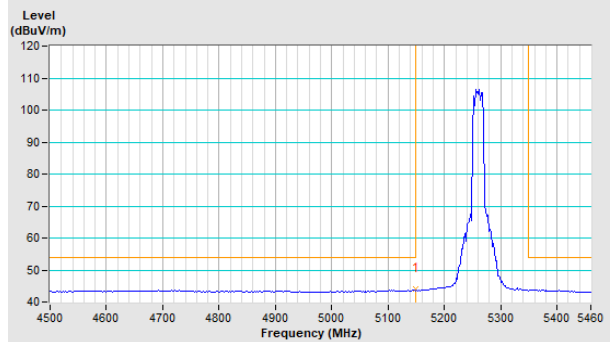


Channel 52

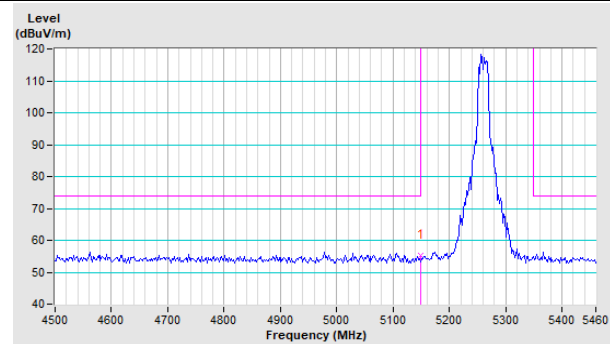
Horizontal (Peak)



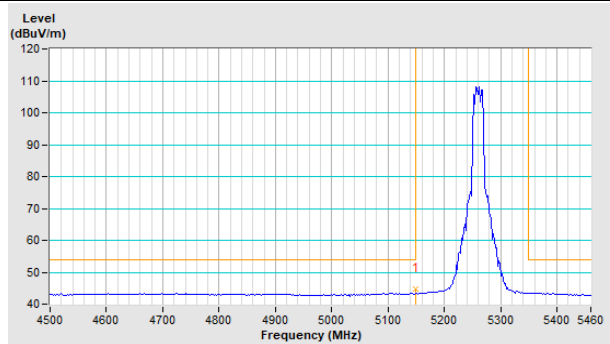
Horizontal (Average)



Vertical (Peak)

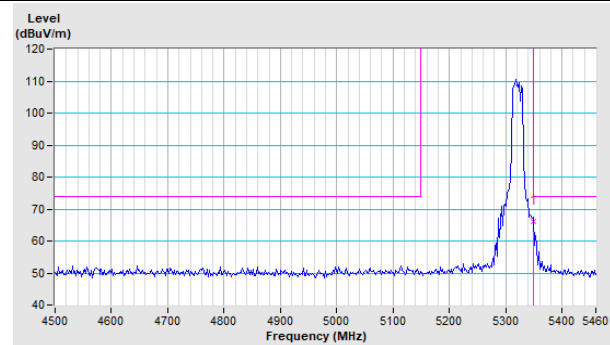


Vertical (Average)

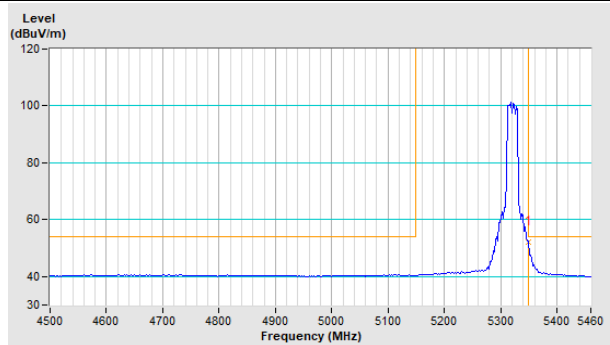


Channel 64

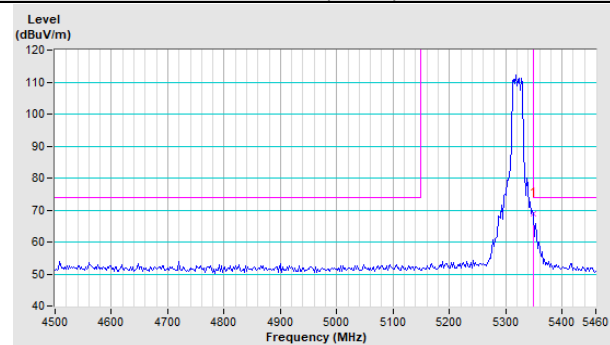
Horizontal (Peak)



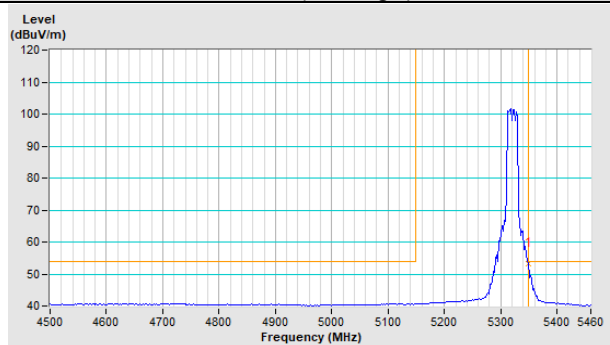
Horizontal (Average)



Vertical (Peak)

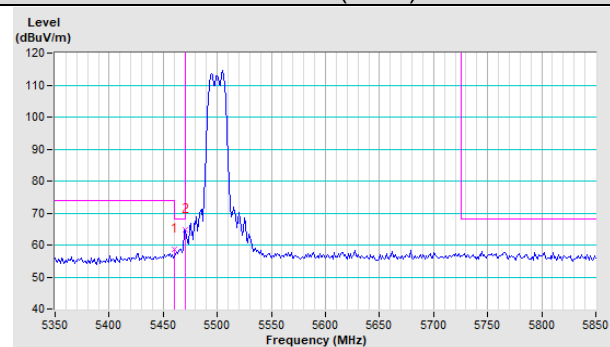


Vertical (Average)

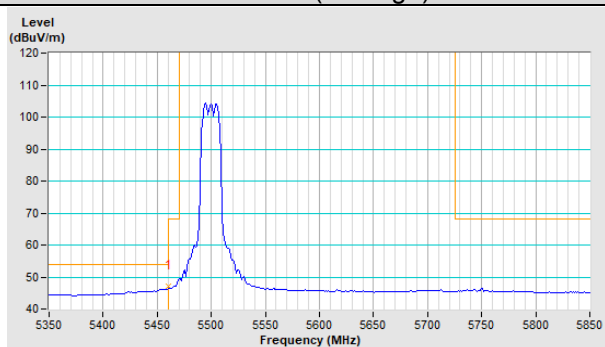


Channel 100

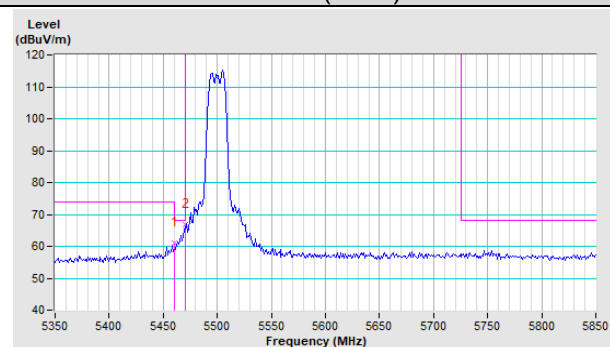
Horizontal (Peak)



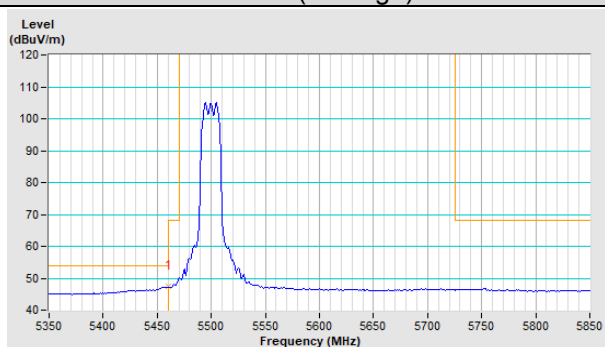
Horizontal (Average)



Vertical (Peak)

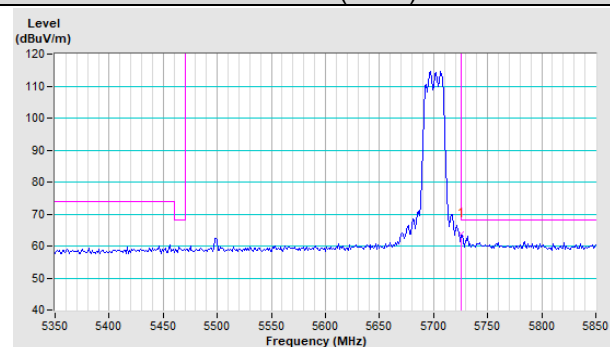


Vertical (Average)

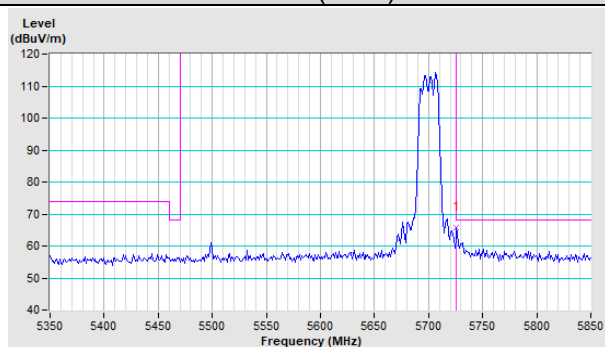


Channel 140

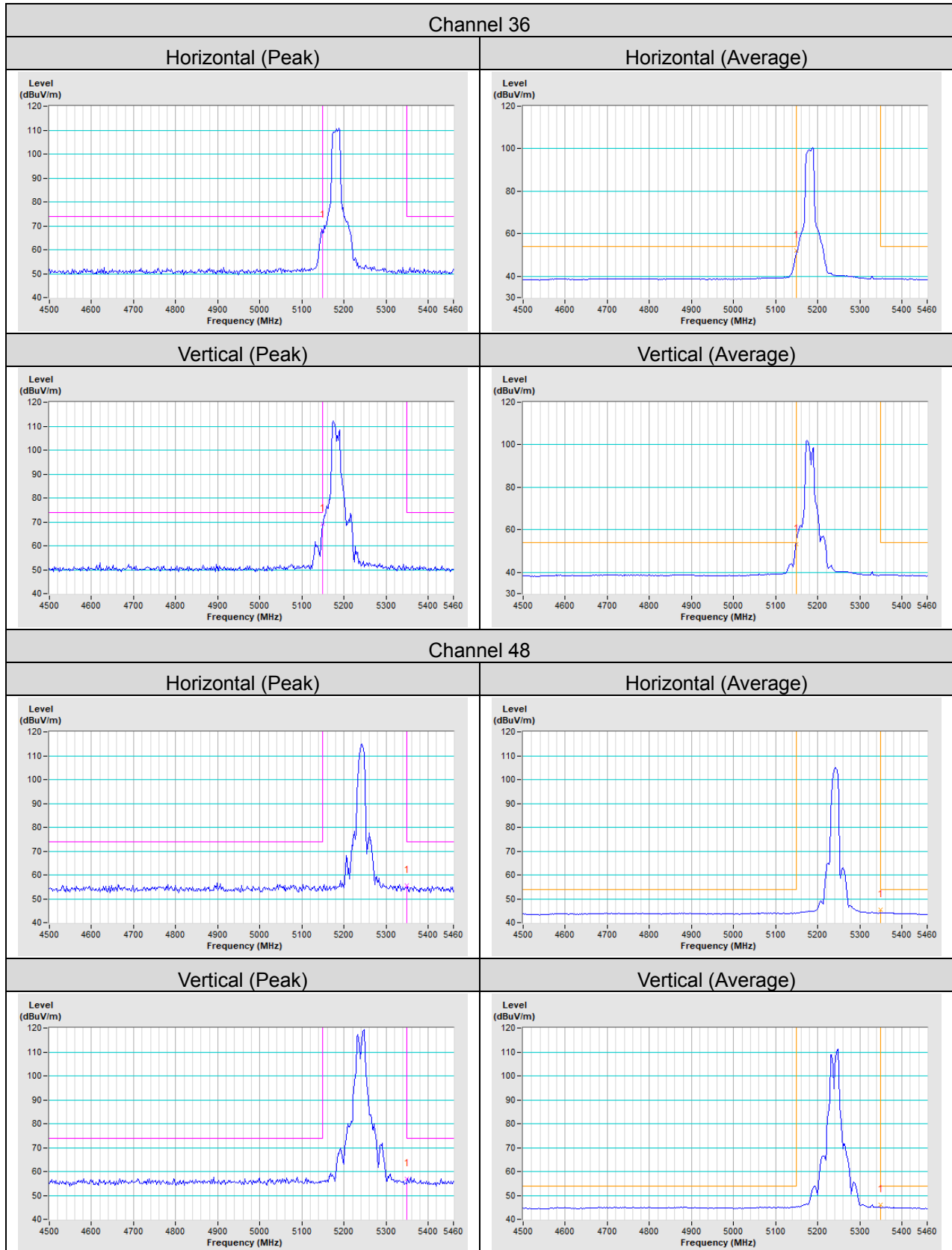
Horizontal (Peak)



Vertical (Peak)

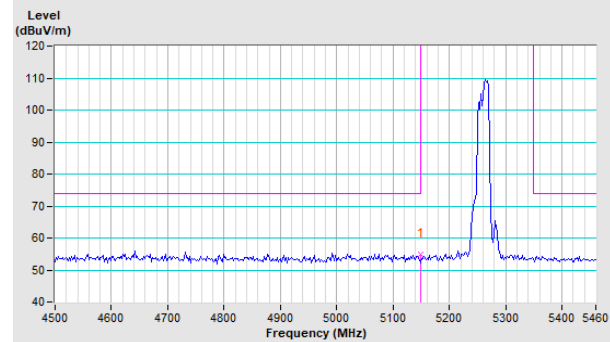


802.11ac (VHT20)

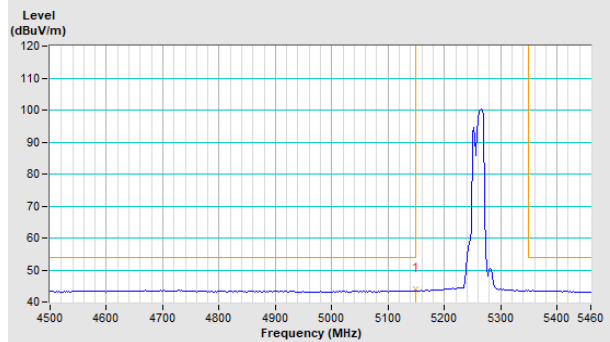


Channel 52

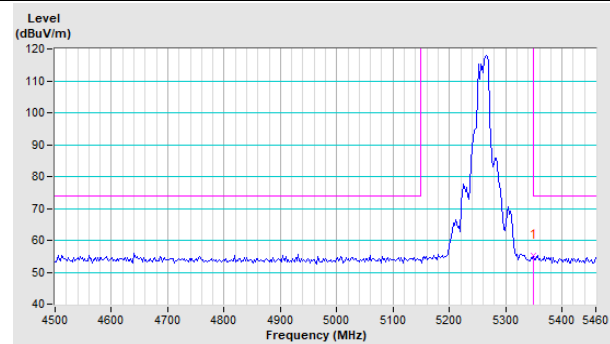
Horizontal (Peak)



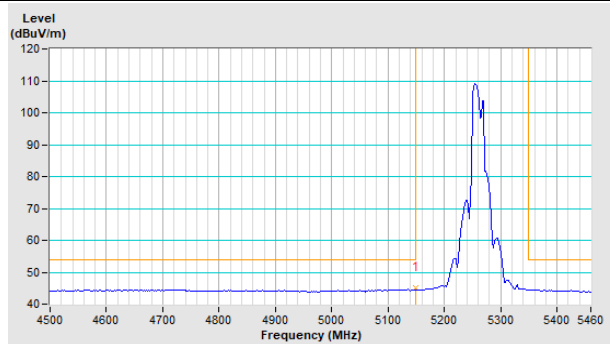
Horizontal (Average)



Vertical (Peak)

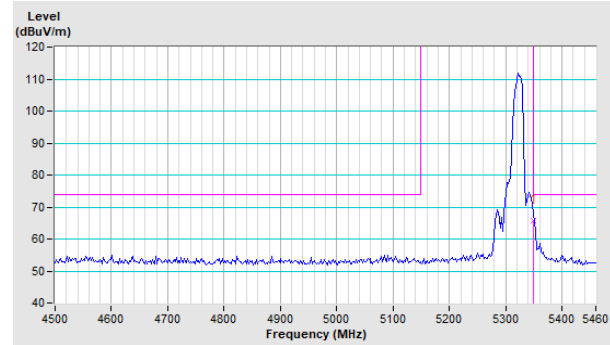


Vertical (Average)

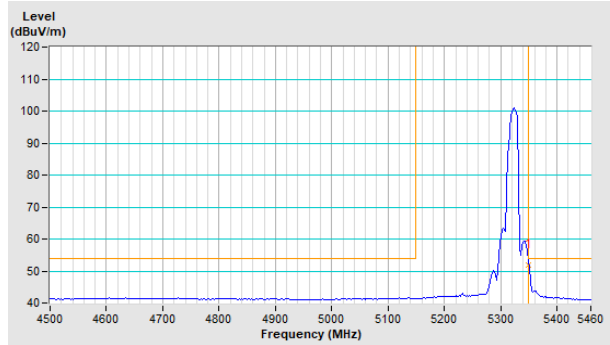


Channel 64

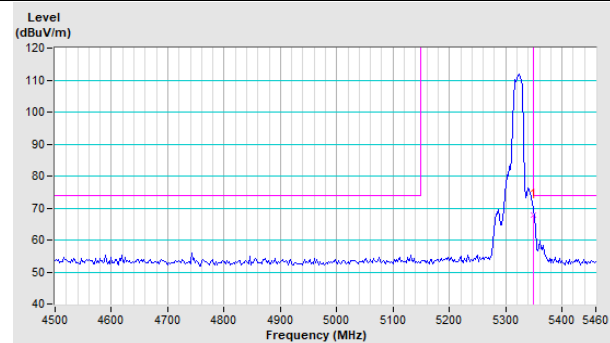
Horizontal (Peak)



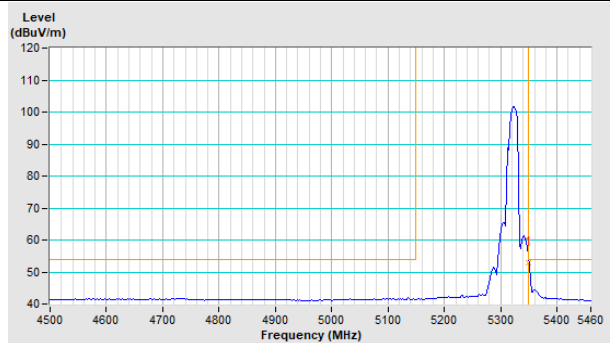
Horizontal (Average)

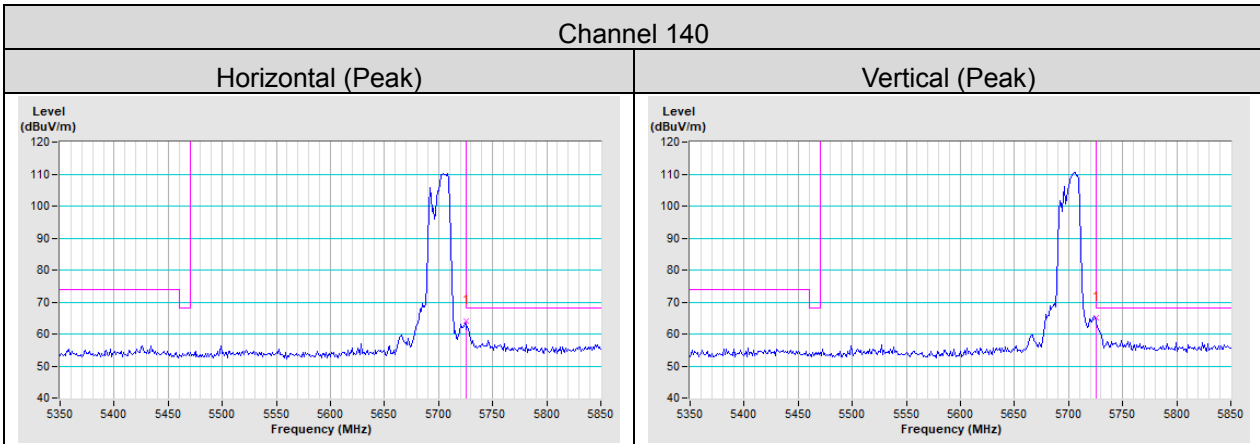
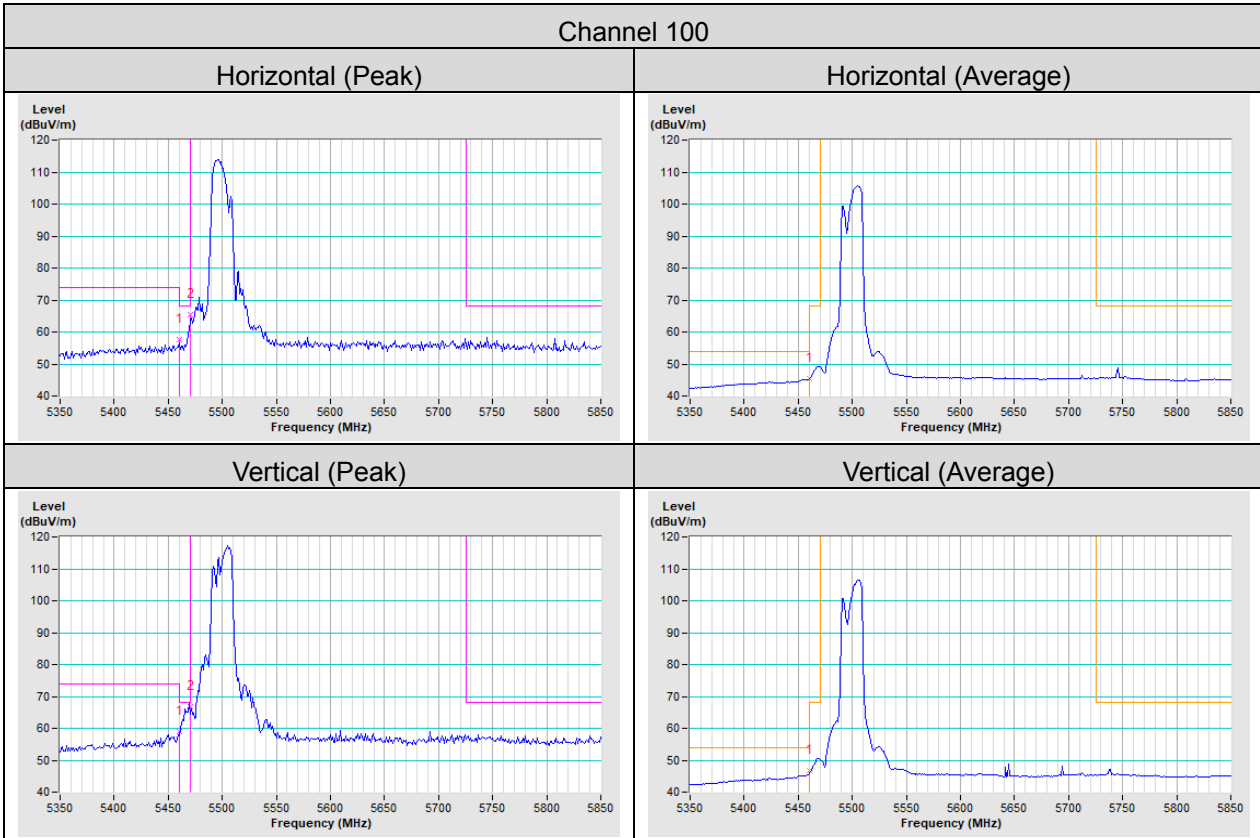


Vertical (Peak)

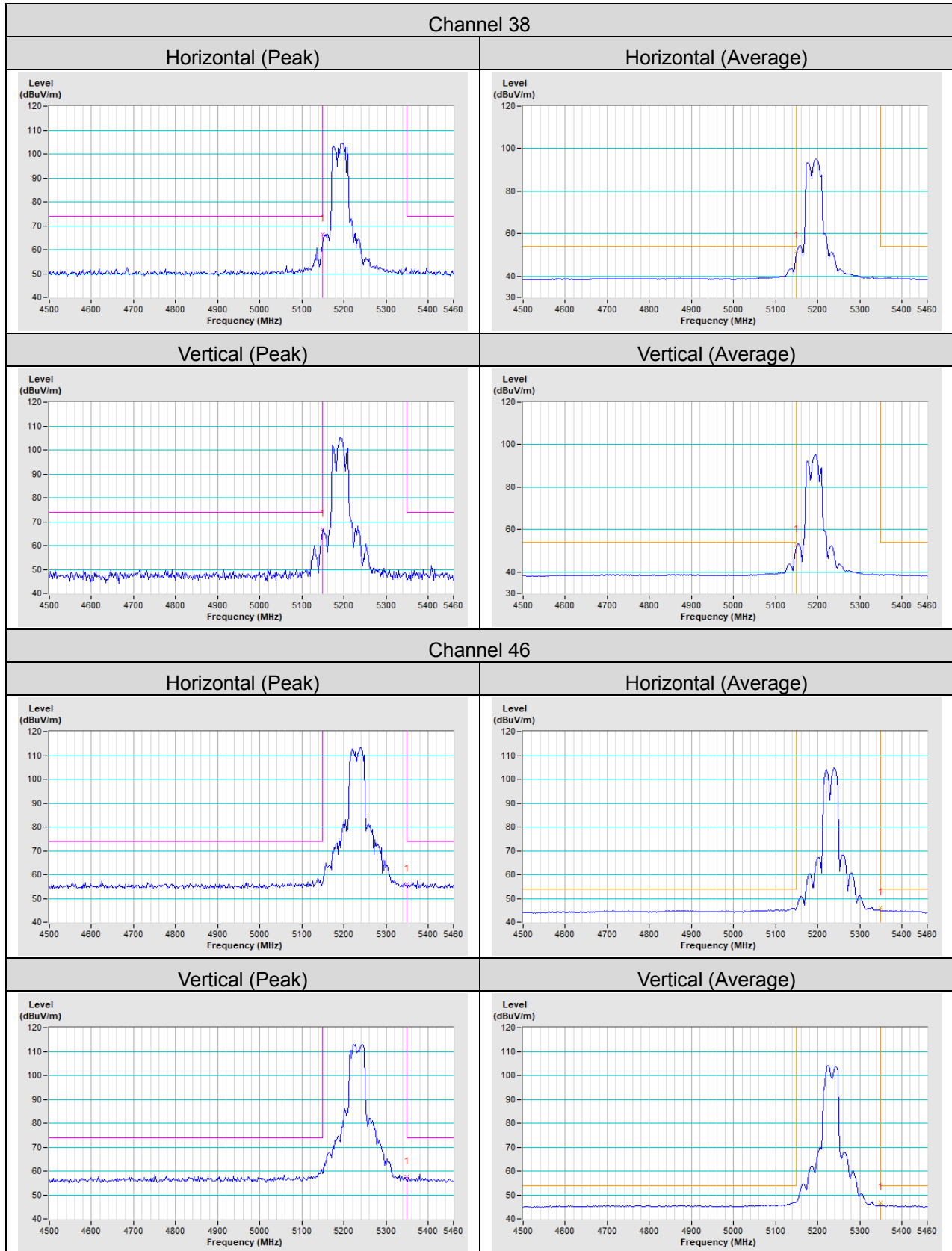


Vertical (Average)



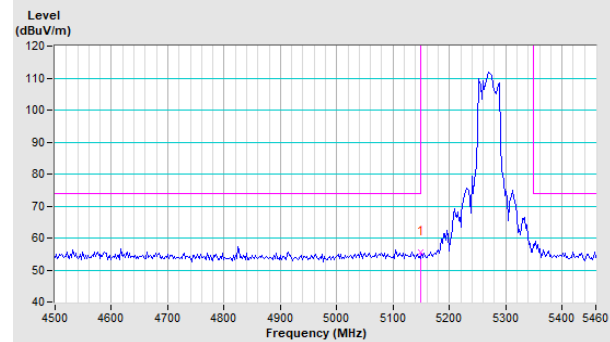


802.11ac (VHT40)

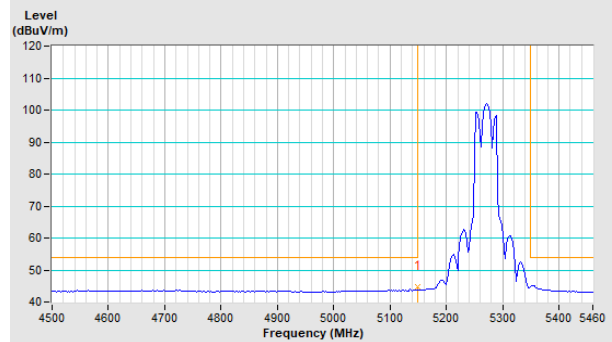


Channel 54

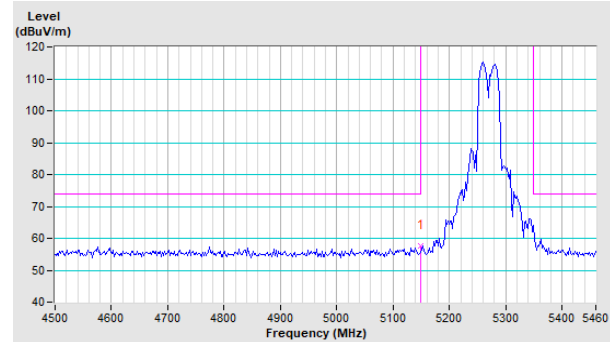
Horizontal (Peak)



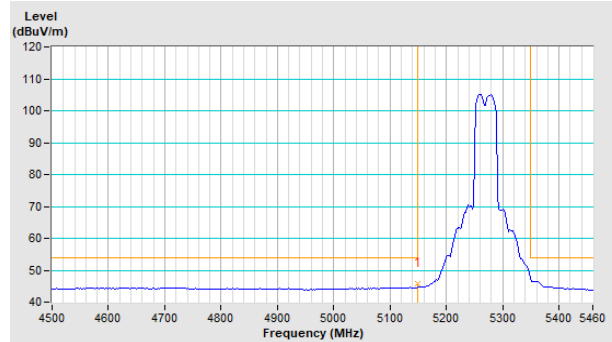
Horizontal (Average)



Vertical (Peak)

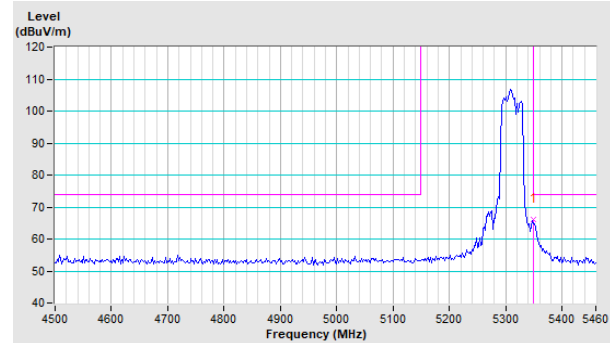


Vertical (Average)

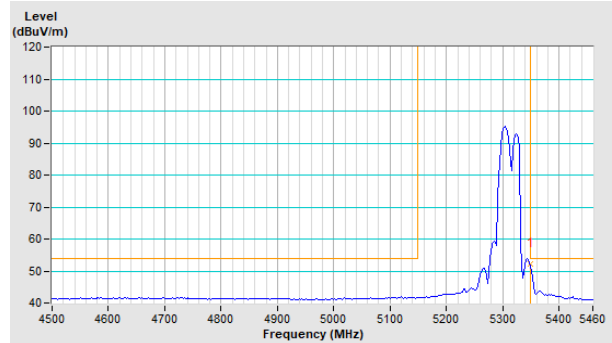


Channel 62

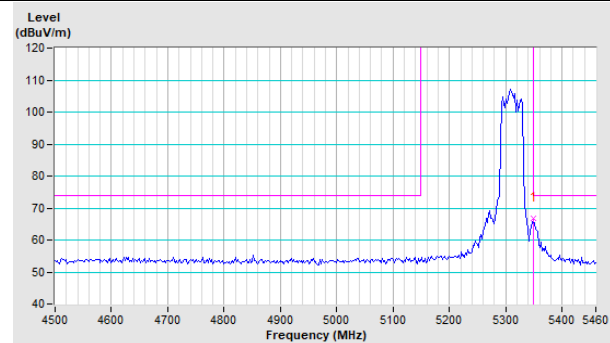
Horizontal (Peak)



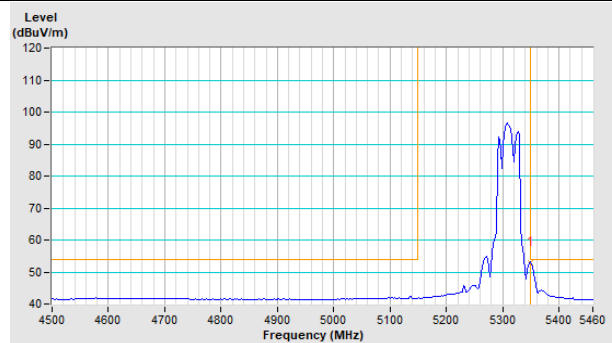
Horizontal (Average)



Vertical (Peak)

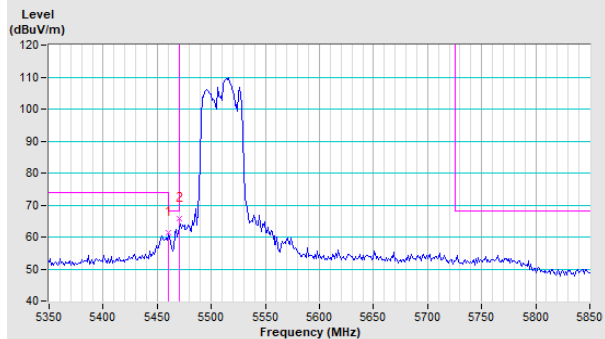


Vertical (Average)

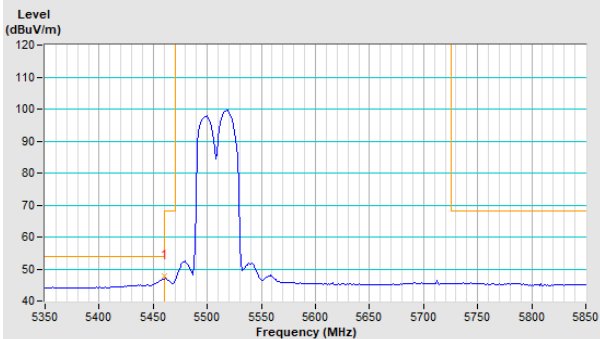


Channel 102

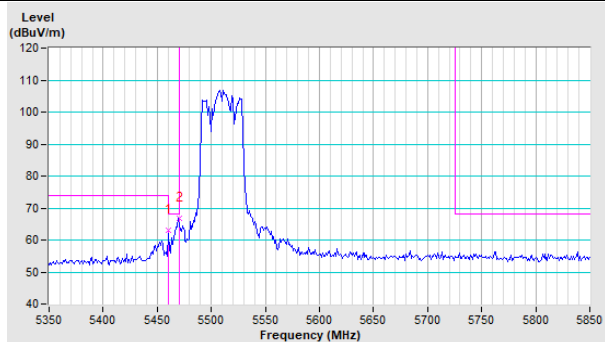
Horizontal (Peak)



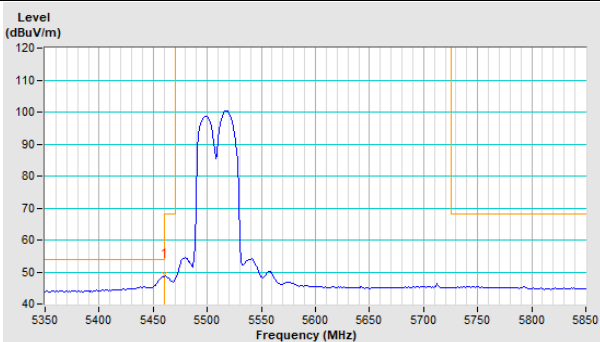
Horizontal (Average)



Vertical (Peak)

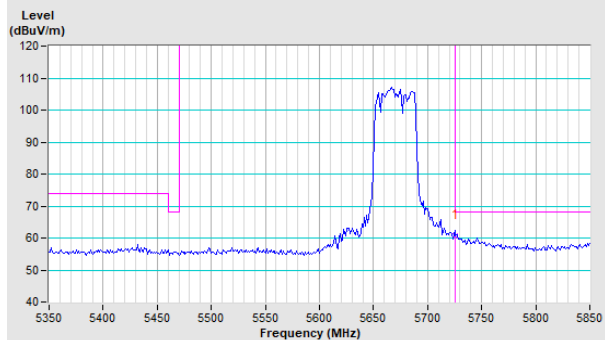


Vertical (Average)

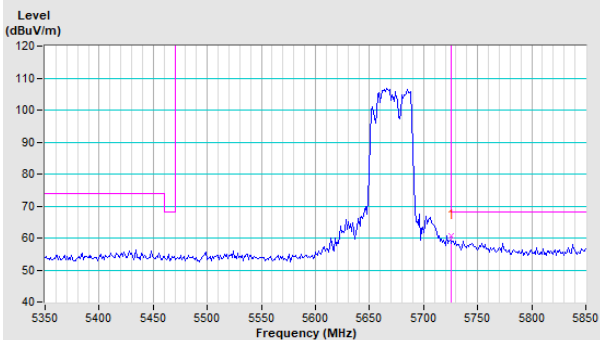


Channel 134

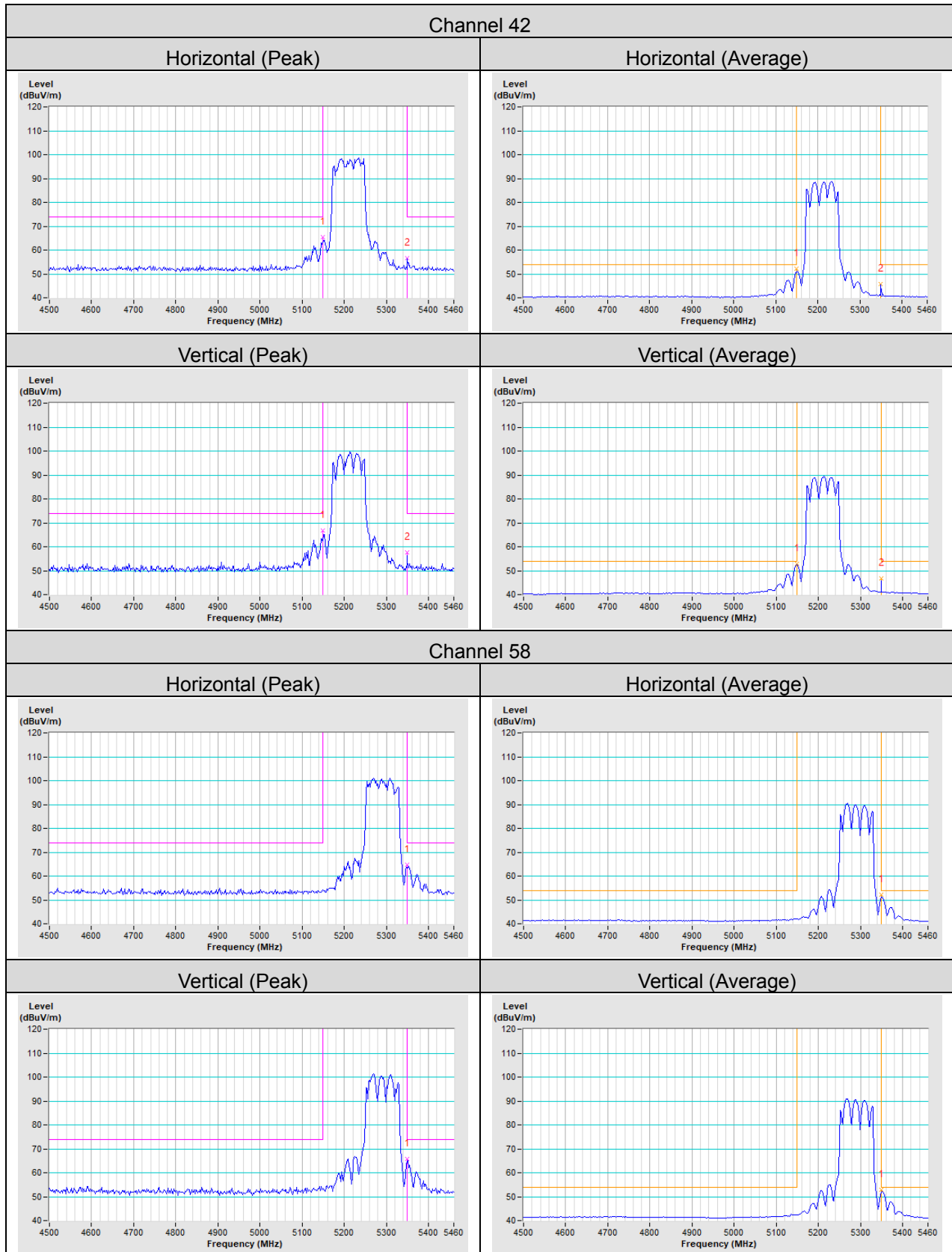
Horizontal (Peak)

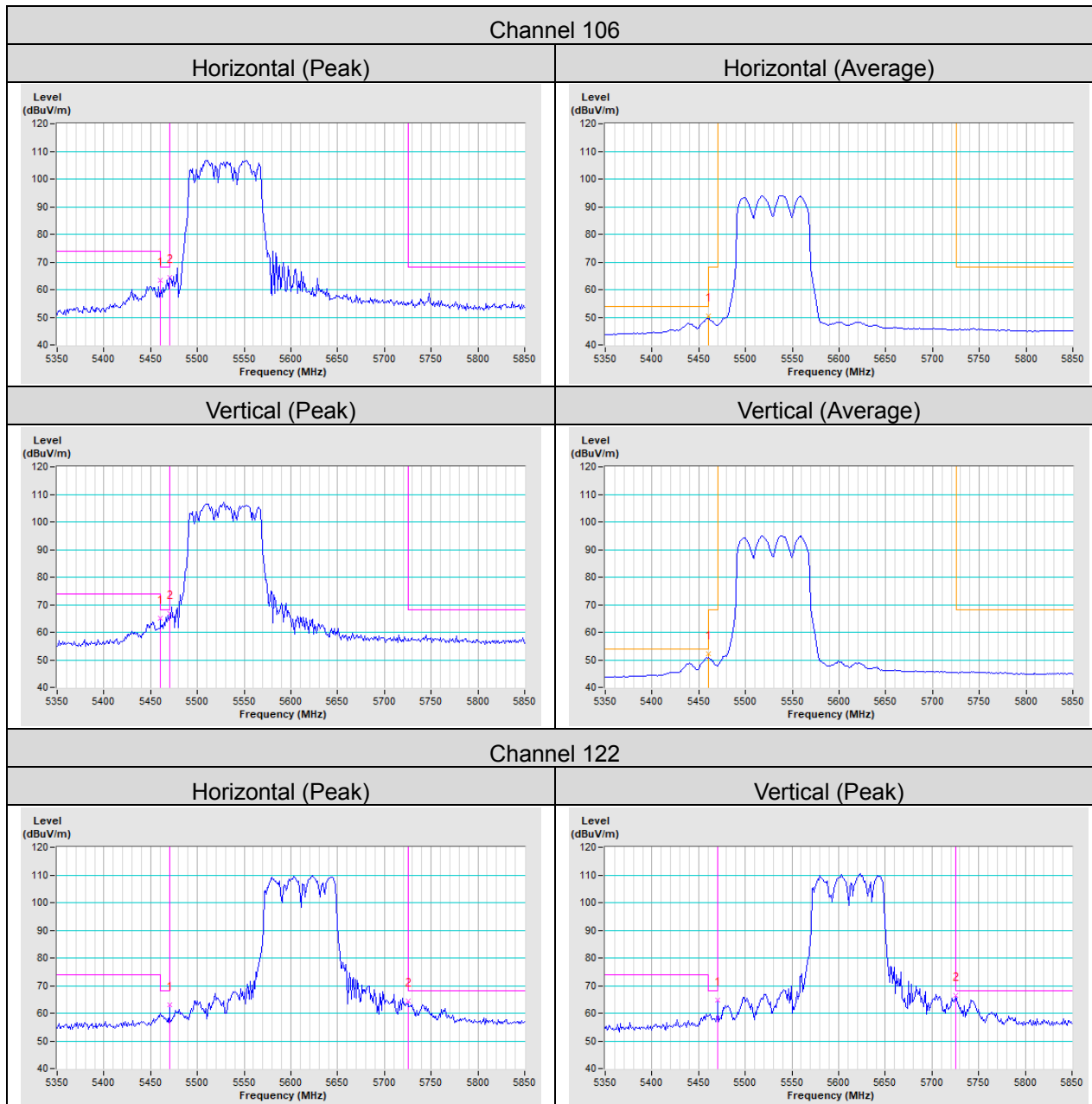


Vertical (Peak)



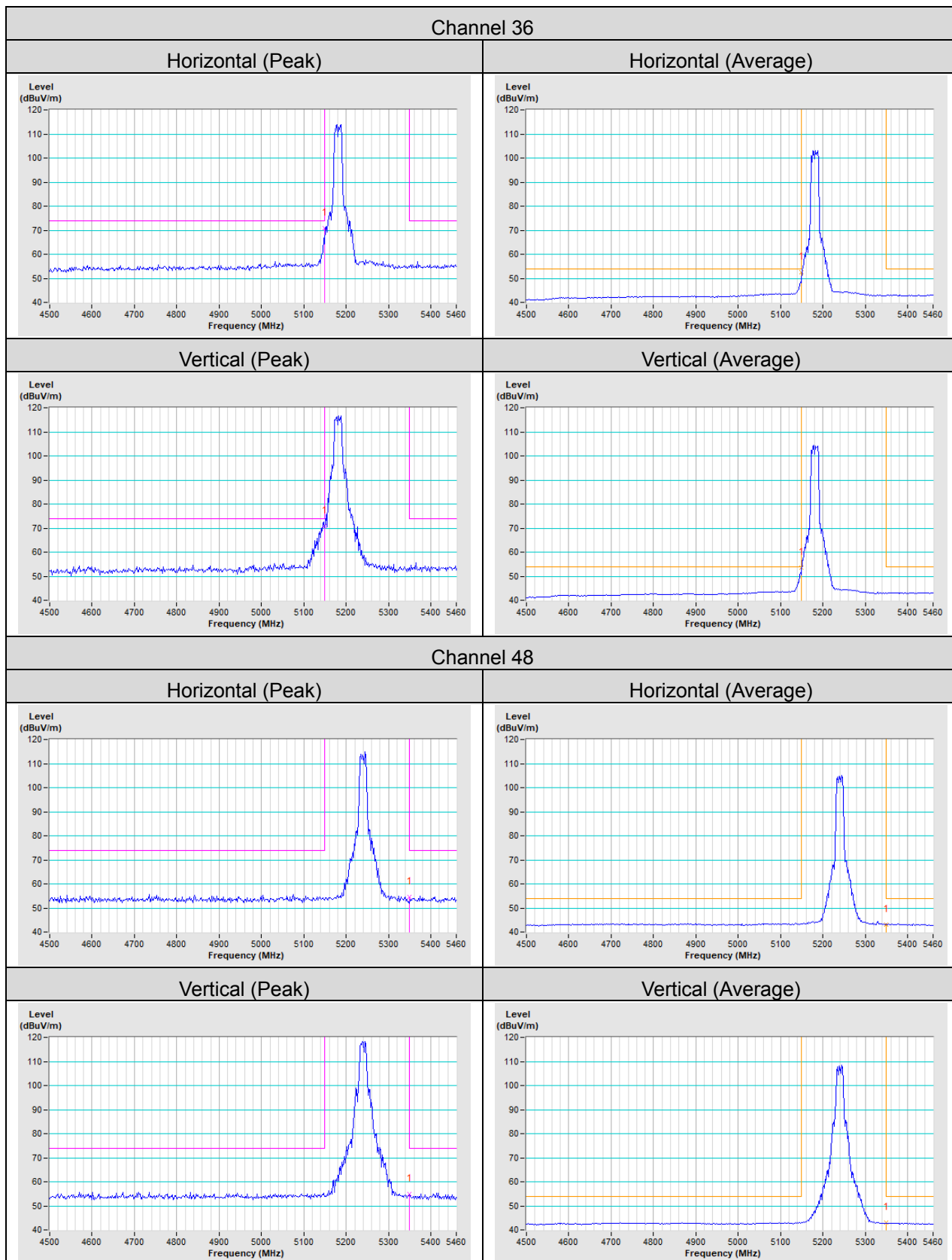
802.11ac (VHT80)





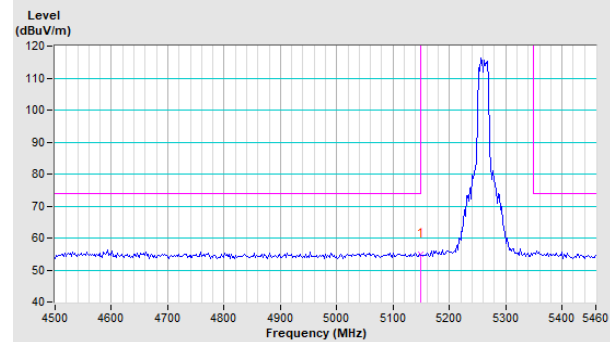
Test Mode C

802.11a

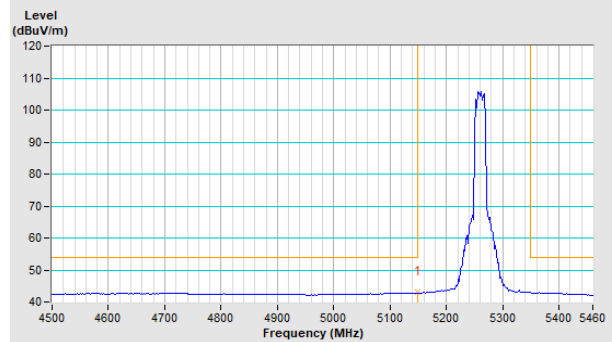


Channel 52

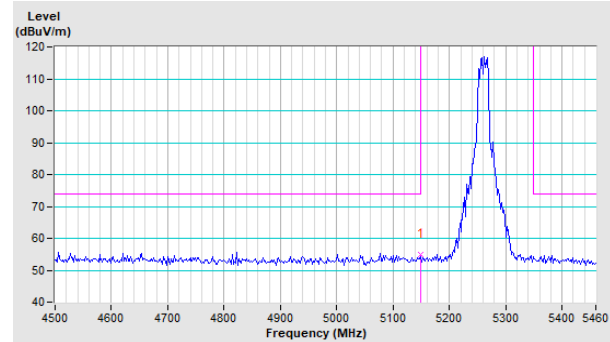
Horizontal (Peak)



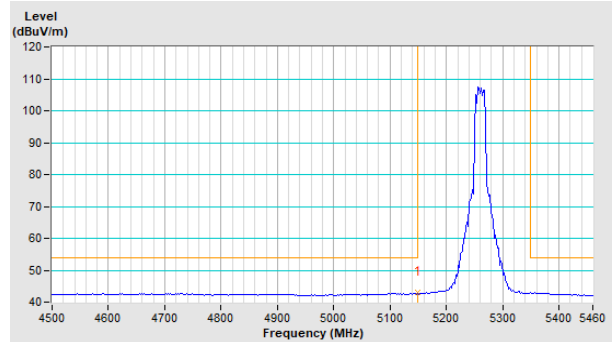
Horizontal (Average)



Vertical (Peak)

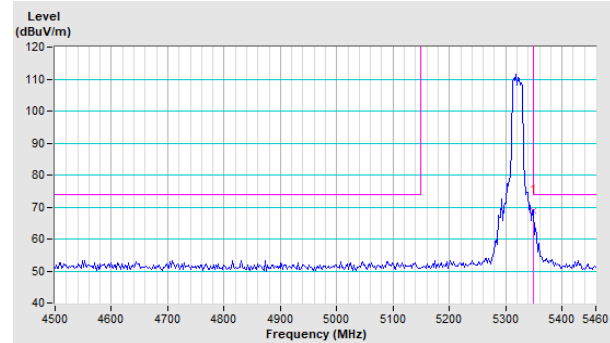


Vertical (Average)

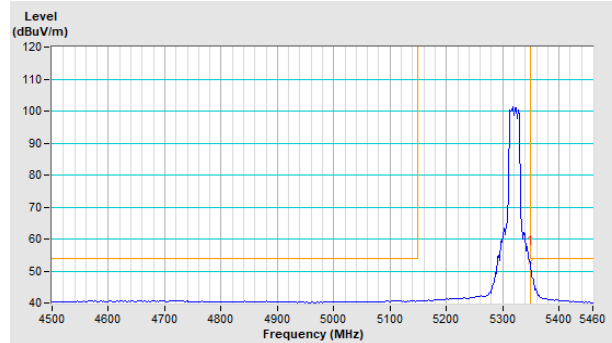


Channel 64

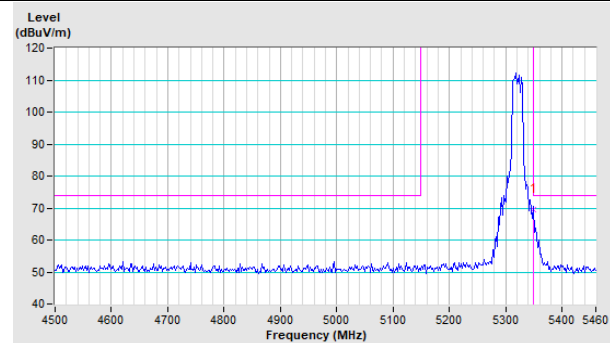
Horizontal (Peak)



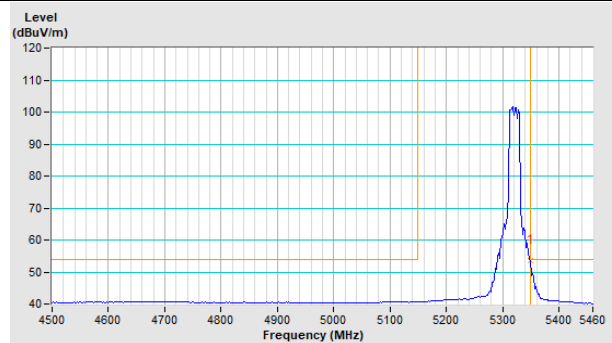
Horizontal (Average)



Vertical (Peak)

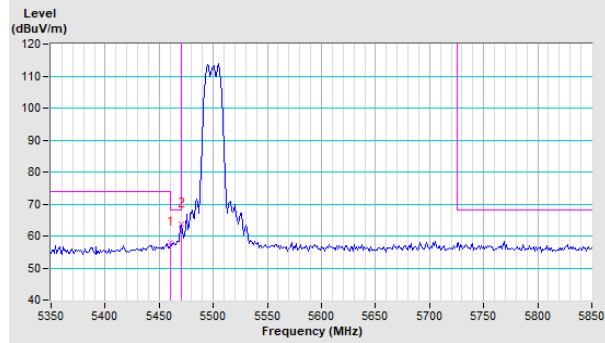


Vertical (Average)

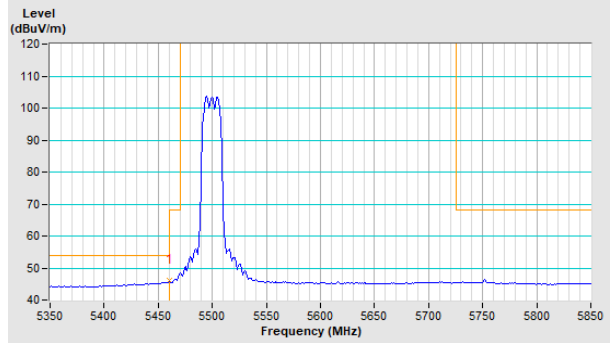


Channel 100

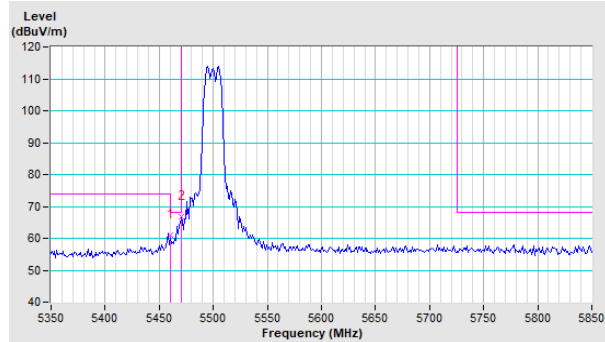
Horizontal (Peak)



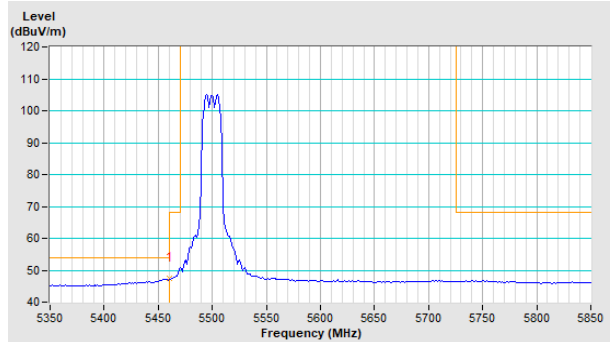
Horizontal (Average)



Vertical (Peak)

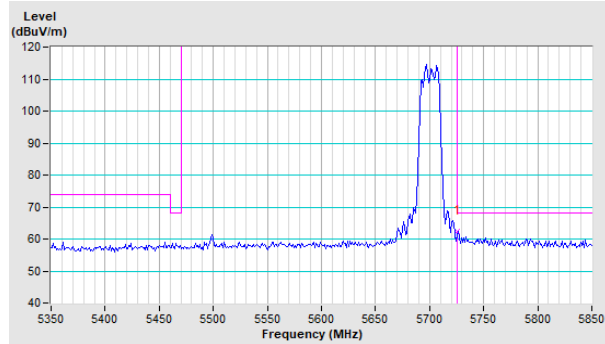


Vertical (Average)

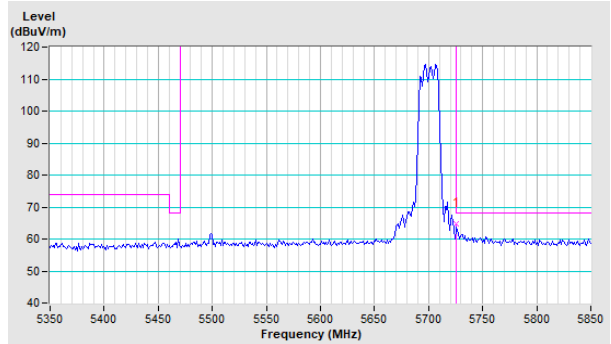


Channel 140

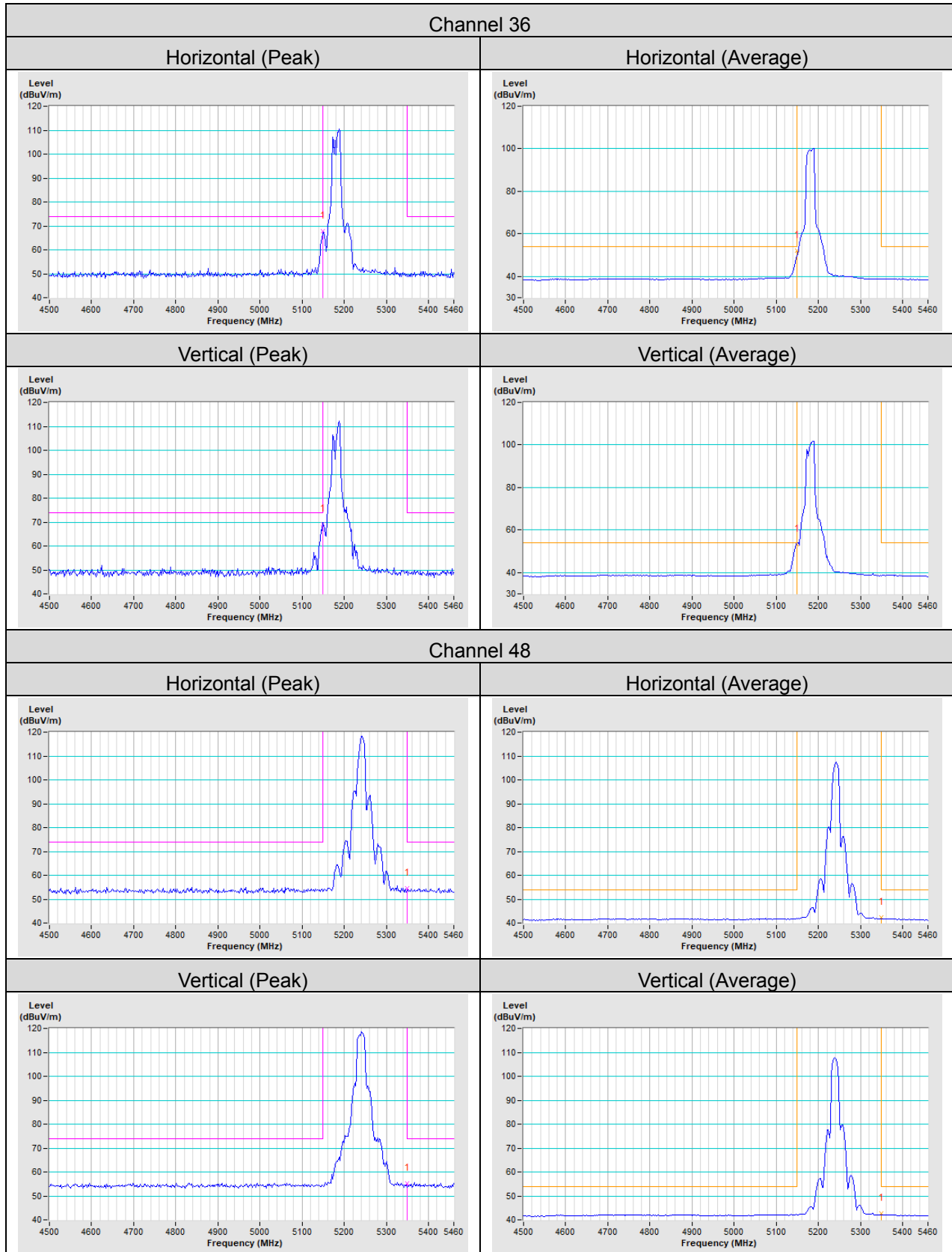
Horizontal (Peak)



Vertical (Peak)

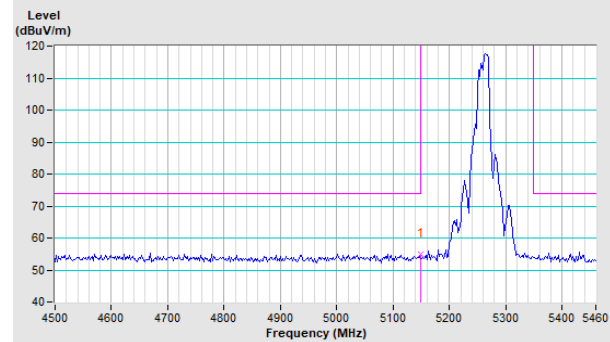


802.11ac (VHT20)

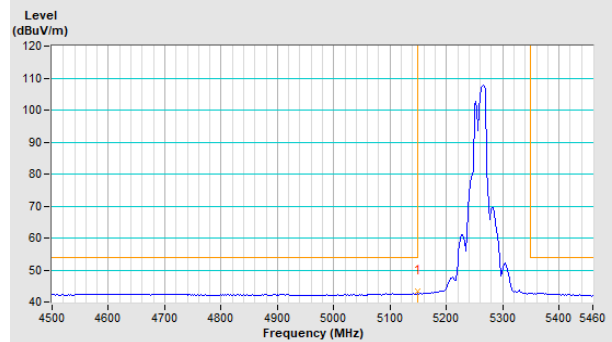


Channel 52

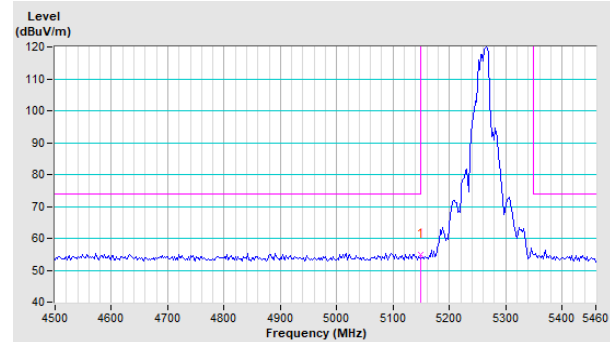
Horizontal (Peak)



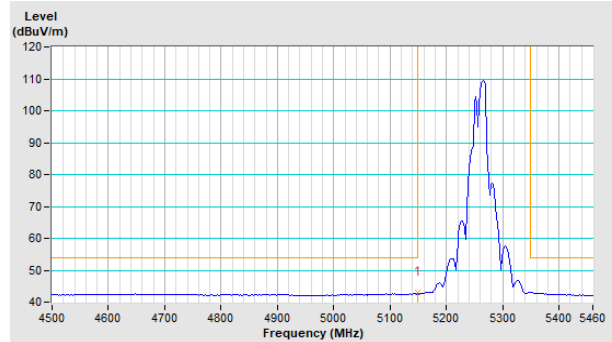
Horizontal (Average)



Vertical (Peak)

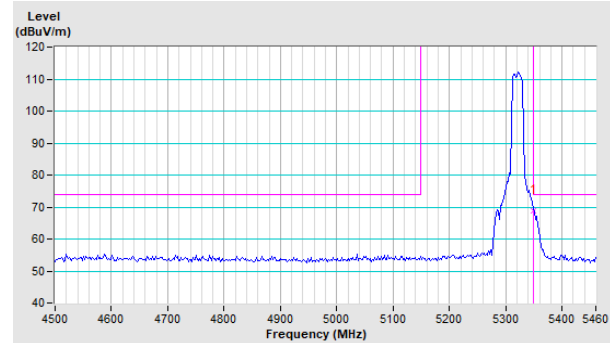


Vertical (Average)

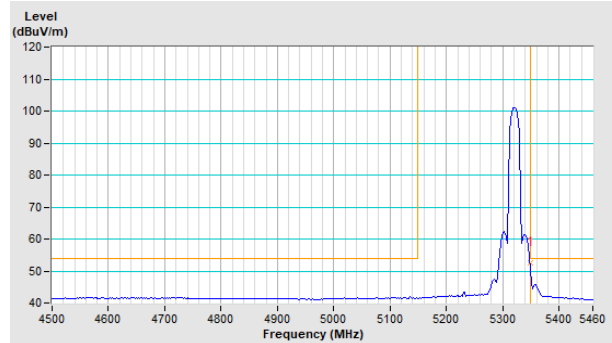


Channel 64

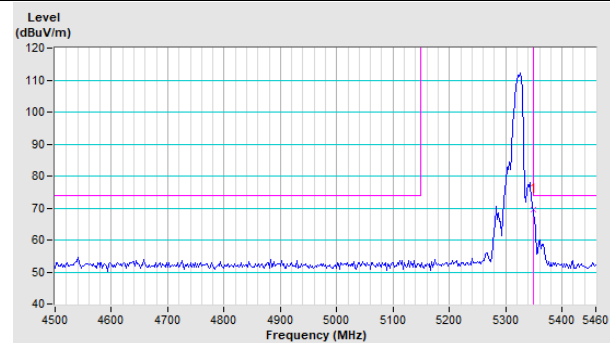
Horizontal (Peak)



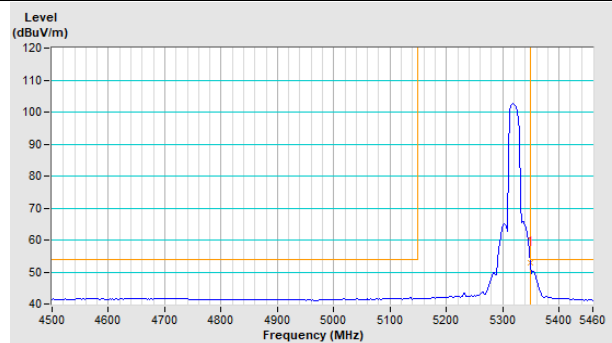
Horizontal (Average)



Vertical (Peak)

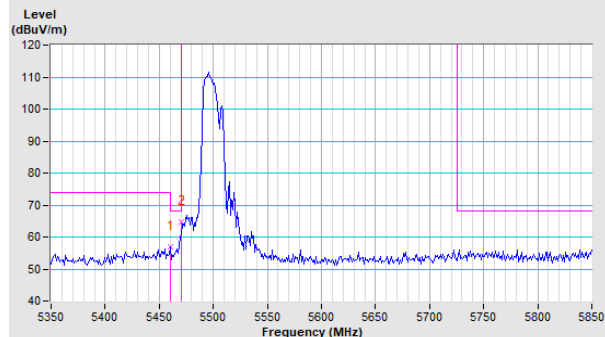


Vertical (Average)

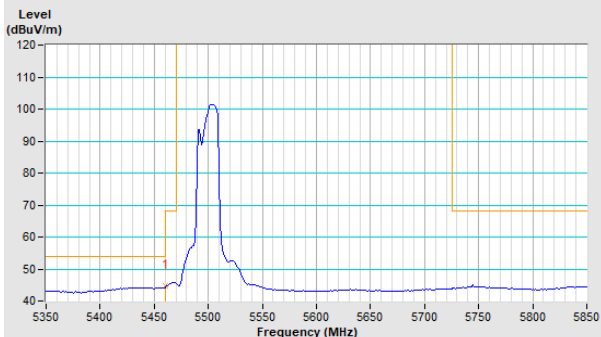


Channel 100

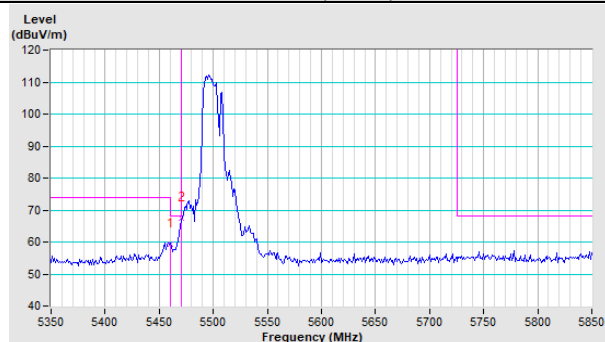
Horizontal (Peak)



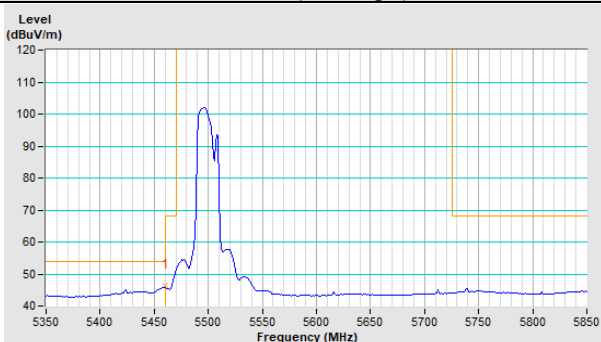
Horizontal (Average)



Vertical (Peak)

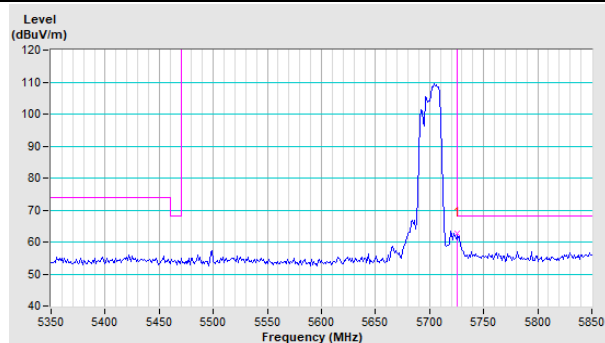


Vertical (Average)

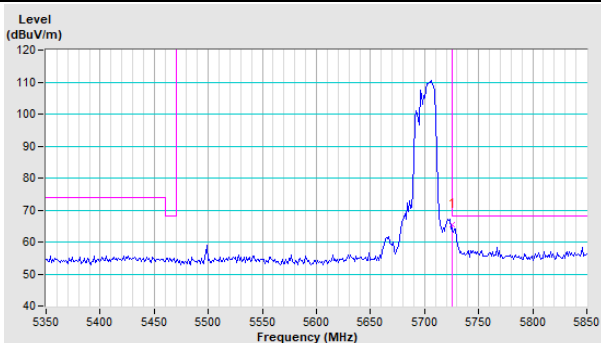


Channel 140

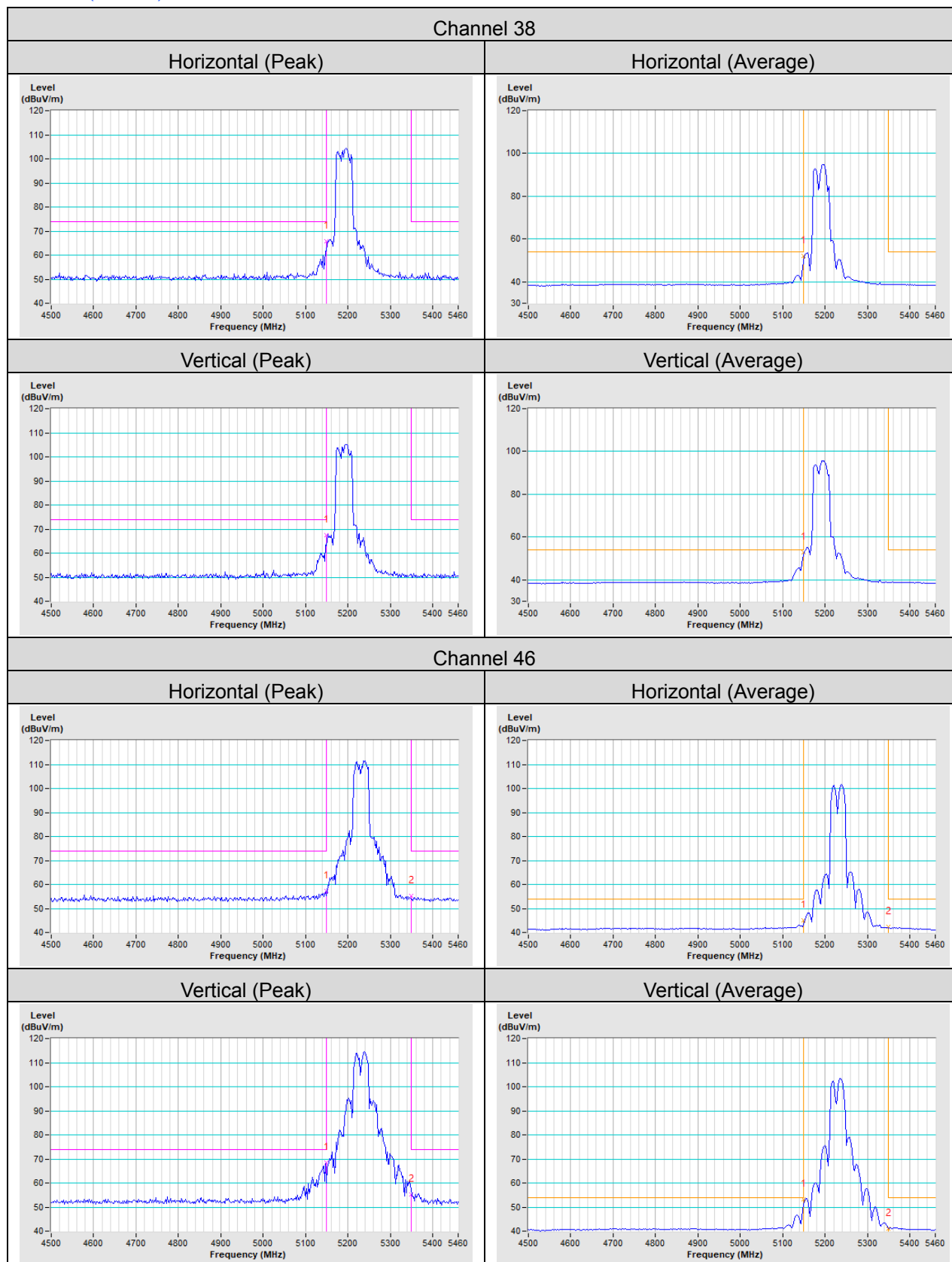
Horizontal (Peak)

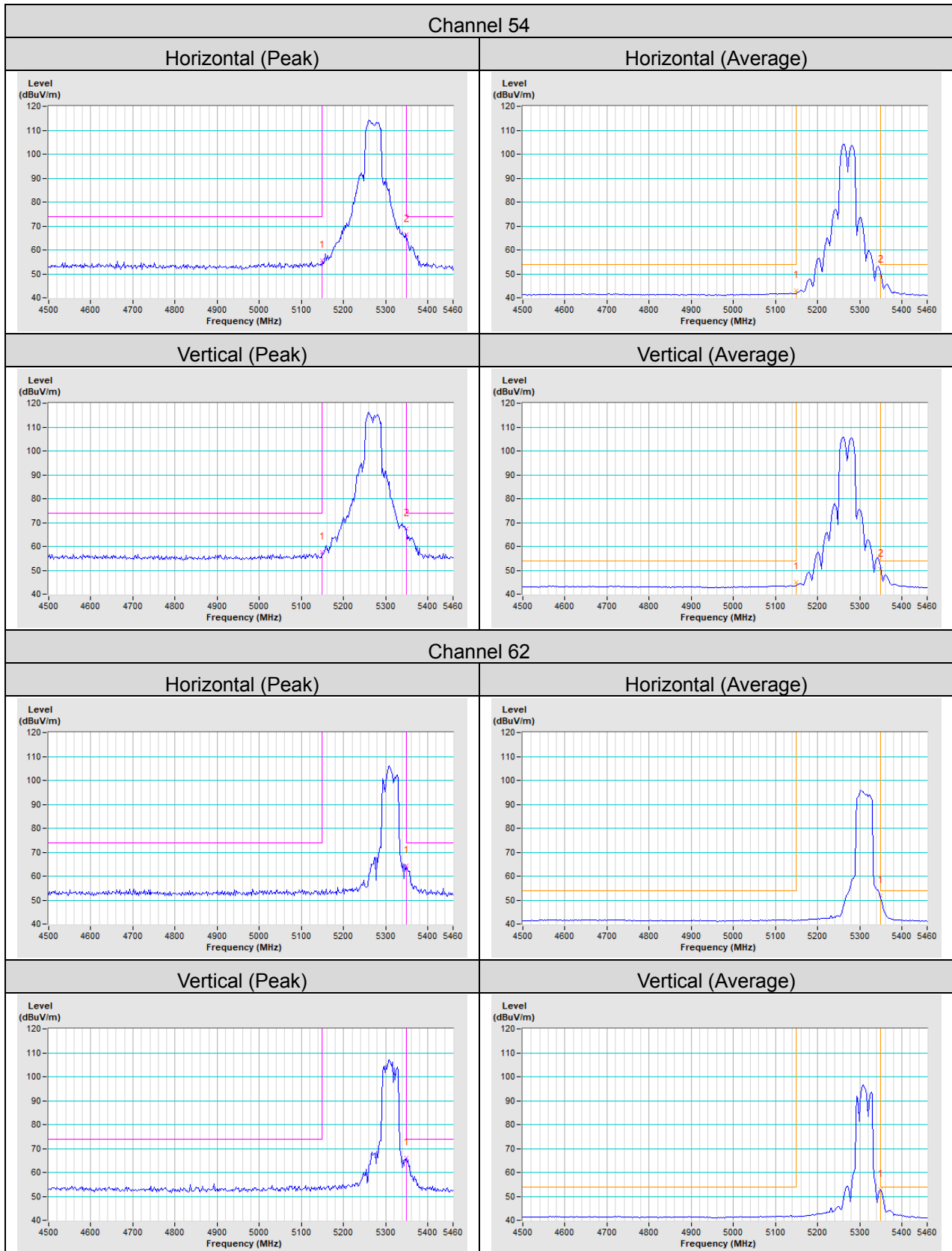


Vertical (Peak)



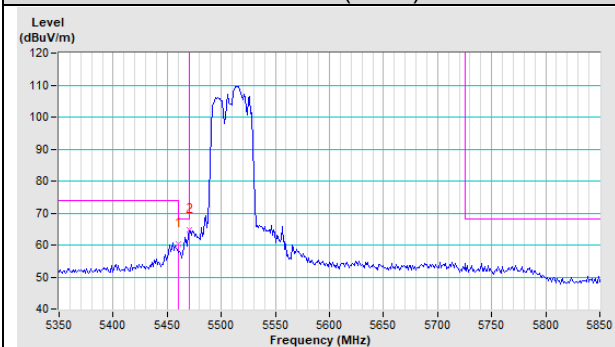
802.11ac (VHT40)



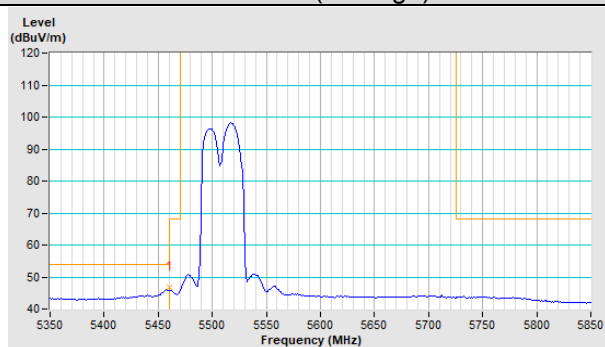


Channel 102

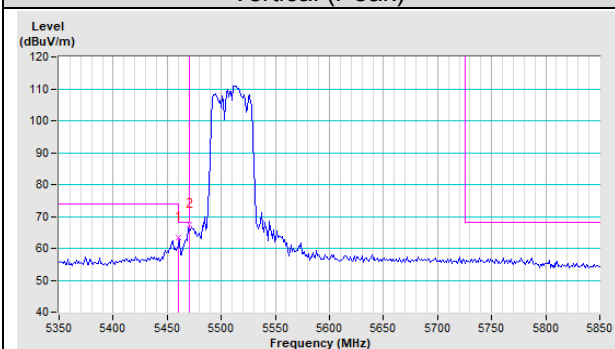
Horizontal (Peak)



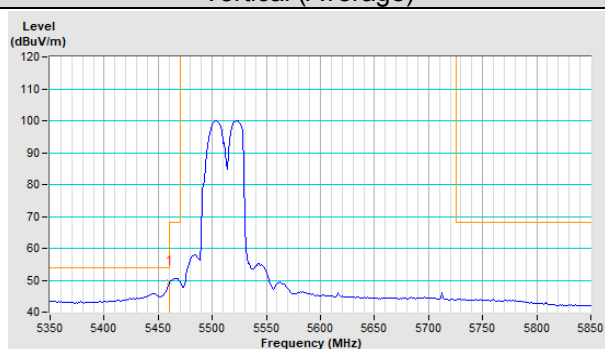
Horizontal (Average)



Vertical (Peak)

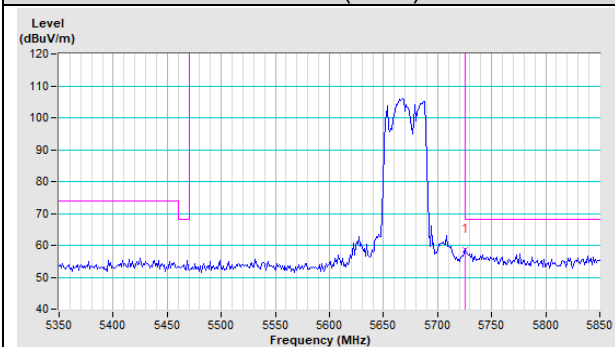


Vertical (Average)

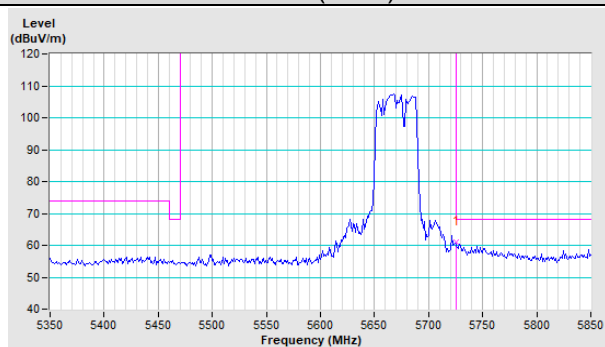


Channel 134

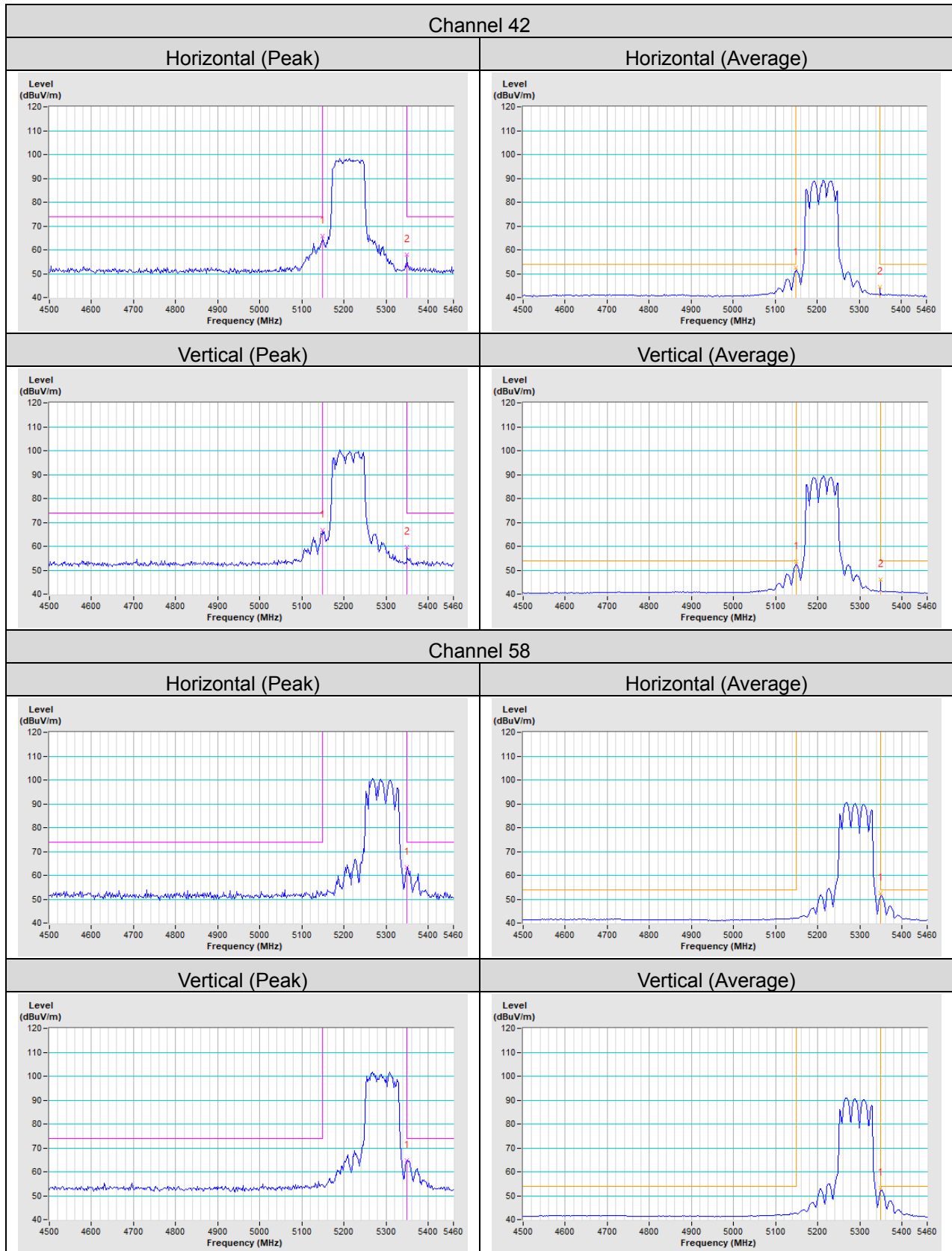
Horizontal (Peak)

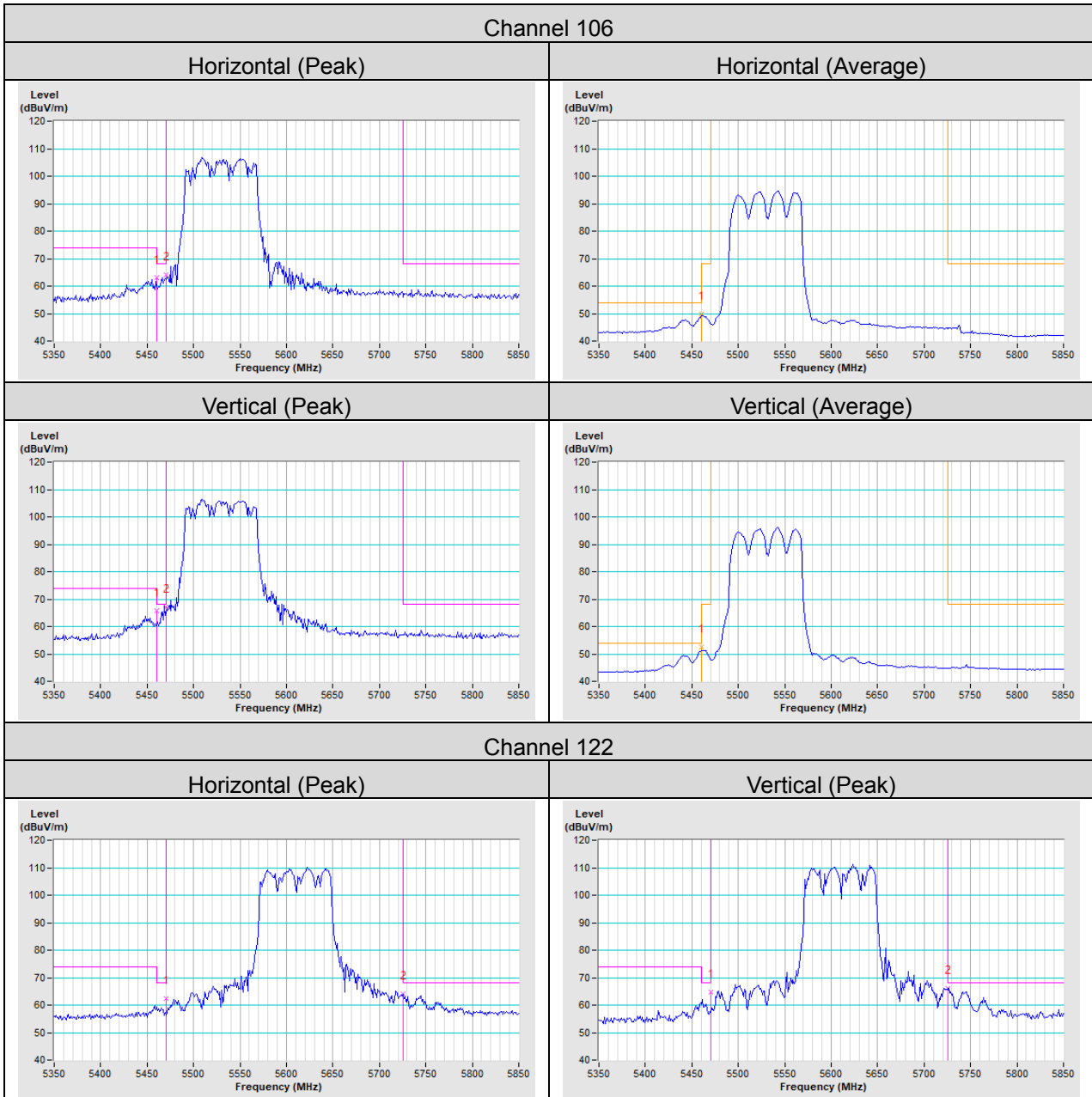


Vertical (Peak)



802.11ac (VHT80)





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.

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

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Email: service.adt@tw.bureauveritas.com

Web Site: 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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