

FCC Test Report

Report No.: RFBCYK-WTW-P21070588-1

FCC ID: RAS-MT7921

Model Name: MT7921

Received Date: Jul. 17, 2021

Test Date: Aug. 02, 2021 ~ Jan. 04, 2022

Issued Date: Jan. 19, 2022

Applicant: MediaTek Inc.

Address: No. 1, Dusing 1st Rd., Hsinchu Science Park Hsinchu City 30078, Taiwan

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

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location (1): No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
33383, TAIWAN

FCC Registration / 788550 / TW0003
Designation Number:

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

FCC Registration / 281270 / TW0032
Designation Number:



This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.

Table of Contents

Release Control Record	4
1 Certificate of Conformity	5
2 Summary of Test Results	6
2.1 Measurement Uncertainty	6
2.2 Modification Record	6
3 General Information	7
3.1 General Description of EUT	7
3.2 Description of Test Modes	10
3.2.1 Test Mode Applicability and Tested Channel Detail	12
3.3 Duty Cycle of Test Signal	14
3.4 Description of Support Units	16
3.4.1 Configuration of System under Test	16
3.5 General Description of Applied Standards and References	16
4 Test Types and Results	17
4.1 Radiated Emission and Bandedge Measurement	17
4.1.1 Limits of Radiated Emission and Bandedge Measurement	17
4.1.2 Test Instruments	18
4.1.3 Test Procedures	19
4.1.4 Deviation from Test Standard	20
4.1.5 Test Setup	20
4.1.6 EUT Operating Conditions	21
4.1.7 Test Results	22
4.2 Conducted Emission Measurement	110
4.2.1 Limits of Conducted Emission Measurement	110
4.2.2 Test Instruments	110
4.2.3 Test Procedures	111
4.2.4 Deviation from Test Standard	111
4.2.5 Test Setup	111
4.2.6 EUT Operating Conditions	111
4.2.7 Test Results	112
4.3 Transmit Power Measurement	124
4.3.1 Limits of Transmit Power Measurement	124
4.3.2 Test Setup	124
4.3.3 Test Instruments	124
4.3.4 Test Procedure	125
4.3.5 Deviation from Test Standard	125
4.3.6 EUT Operating Conditions	125
4.3.7 Test Result	126
4.4 Occupied Bandwidth Measurement	154
4.4.1 Test Setup	154
4.4.2 Test Instruments	154
4.4.3 Test Procedure	154
4.4.4 Test Result	155
4.5 Peak Power Spectral Density Measurement	166
4.5.1 Limits of Peak Power Spectral Density Measurement	166
4.5.2 Test Setup	166
4.5.3 Test Instruments	166
4.5.4 Test Procedures	167
4.5.5 Deviation from Test Standard	167
4.5.6 EUT Operating Conditions	167
4.5.7 Test Results	168
4.6 Frequency Stability	179
4.6.1 Limits of Frequency Stability Measurement	179

4.6.2 Test Setup	179
4.6.3 Test Instruments	179
4.6.4 Test Procedure	179
4.6.5 Deviation from Test Standard	180
4.6.6 EUT Operating Condition	180
4.6.7 Test Results	180
4.7 6dB Bandwidth Measurement	182
4.7.1 Limits of 6dB Bandwidth Measurement	182
4.7.2 Test Setup	182
4.7.3 Test Instruments	182
4.7.4 Test Procedure	182
4.7.5 Deviation from Test Standard	182
4.7.6 EUT Operating Condition	182
4.7.7 Test Results	183
5 Pictures of Test Arrangements	187
Annex A - Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)	188
Annex B - Band Edge Measurement	194
Appendix – Information of the Testing Laboratories	219

Release Control Record

Issue No.	Description	Date Issued
RFBCYK-WTW-P21070588-1	Original release	Jan. 19, 2022

1 Certificate of Conformity

Product: 2TX 11ax (WiFi6) + BLE Combo Card

Brand: MediaTek

Model Name: MT7921

Sample Status: Engineering Sample

Applicant: MediaTek Inc.

Test Date: Aug. 02, 2021 ~ Jan. 04, 2022

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 : Celine Chou , **Date:** Jan. 19, 2022
Celine Chou / Senior Specialist

Approved by : Jeremy Lin , **Date:** Jan. 19, 2022
Jeremy Lin / Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(9)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -0.06dB at 0.56055MHz.
15.407(b)(1/2/3/4(i/ii)/9)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.5dB at 5350.00MHz.
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 R-SMA not a standard connector.

Note:

- For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.
- 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.
- 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) ($\pm$)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.79 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.00 dB
	30MHz ~ 200MHz	2.91 dB
	200MHz ~ 1000MHz	2.93 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	1.76 dB
	18GHz ~ 40GHz	1.77 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	2TX 11ax (WiFi6) + BLE Combo Card
Brand	MediaTek
Model Name	MT7921
Sample Status	Engineering Sample
Power Supply Rating	3.3Vdc from host equipment
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 866.7Mbps
Operating Frequency	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5720MHz, 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 ~ 5720MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 12 802.11n (HT40), 802.11ac (VHT40): 6 802.11ac (VHT80): 3 5745 ~ 5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 5 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1
Output Power	1TX: 5180 ~ 5240MHz: 109.648mW 5260 ~ 5320MHz: 118.850mW 5500 ~ 5720MHz: 139.316mW 5745 ~ 5825MHz: 182.810mW 2TX: 5180 ~ 5240MHz: 139.657mW 5260 ~ 5320MHz: 149.645mW 5500 ~ 5720MHz: 152.231mW 5745 ~ 5825MHz: 179.642mW

Antenna Type	Refer to note
Antenna Connector	Refer to note
Accessory Device	NA
Cable Supplied	NA

Note:

1. This report is prepared for FCC class II permissive change. This report is issued as a supplementary report to the original BV CPS report no.: RF200317E01-1 and RFBARR-WTW-P20100689E-1 are listed as below. All test data is re-tested in this report.
 - The certified module is integrated in a new host (Model: DB040-W, Brand: Microsoft, with and without Efuse change).
 - Adjust RF output power but not exceed the authorized power values which listed in FCC Grant.
 - Disable BT function & WiFi 11ax function.
 - Added 1Tx function for WiFi.
 - Added an antenna which have the same antenna type as original grant, and each antenna gain is higher.
2. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

Modulation Mode	TX Function
802.11a	1TX, 2TX
802.11n (HT20)	1TX, 2TX
802.11n (HT40)	1TX, 2TX
802.11ac (VHT20)	1TX, 2TX
802.11ac (VHT40)	1TX, 2TX
802.11ac (VHT80)	1TX, 2TX

* The bandwidth and modulation are similar for HT20/HT40 on 802.11n mode and VHT20/VHT40/VHT80 on 802.11ac mode. Therefore the investigated worst case is the representative mode in test report. (Final test mode refer section 3.2.1)

3. This host has two SKUs for sale.

Item	Vender	PN	Usage (SKU A)		Usage (SKU B)	
Motherboard	Wiwynn	20W200	1		1	
CPU	INTEL	XEON C6209U 3.9GHz	1		1	
RAM	SKHYNIX	RDIMM 32GB	2		4	
	SAMSUNG	RDIMM 32GB				
M.2 SSD	Samsung	PM983A MZ1LB960HBJR	1		1	
	SKhynix	PE6110 HFS960GD0FEI				
SSD	SAMSUNG	PM893 MZ7L3960HCJR	2		4	
	MICRON	5300 MTFDDAK960TDS				
Power Supply	DELTA	550W DPS550AB	1		1	
	CHICONY	550W R19-R550				
GPU	Nvidia	A2 PG179 SKU220	0		1	
LAN Card	MELLANOX	MCX623106AC-CDAT	1		1	
WLAN Card	MediaTek	MT7921	1		1	
Power Table			Efuse change	Efuse no change	Efuse change	Efuse no change
			Low Power	High Power	Low Power	High Power

Note.

1. SKU A & SKU B have different key part combination but use the same Efuse to set high and low power.
2. Both High and Low power had been conducted to determine the worst-case mode is the High power result, Low power is presented in power output test item only.
3. After pre-test, SKU B was chosen for final test and presented in the test report.

4. The host consumes power from the following PSUs.

PSU 1	
Brand	CHICONY
Model	R19-550P1VA
Input Power	100-127Vac, 50-60Hz, 7A 200-240Vac, 50-60Hz, 3.5A
Output Power	12Vdc, 42.6A 12Vsb, 2.5A

PSU 2	
Brand	DELTA
Model	DPS-550AB-32 B
Input Power	100-127Vac, 47-63Hz, 7.1A 200-240Vac, 47-63Hz, 3.4A
Output Power	12Vdc, 45A 12Vsb, 2.5A

5. The antenna information for host is listed as below.

No.	Brand	Model	Type	Connector	Gain (dBi)	
					2.4G	5G
1	FOXCONN	ANEP2M1-CZZ02-EH	Dipole	R-SMA	3.0	4.0
2	Inpaq	DAM-D2-H-N0-000-04-02	Dipole	R-SMA	3.5	4.5

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

6. 2.4GHz & 5GHz technology cannot transmit at same time.

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 ~ 5720MHz:

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

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

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

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

3 channels are provided for 802.11ac (VHT80):

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

For 5745 ~ 5825MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE $\geq$ 1G	RE<1G	PLC	APCM	
A	-	√	√	-	PSU 1
B	√	√	√	√	PSU 2

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

RE<1G: Radiated Emission below 1GHz
APCM: Antenna Port Conducted Measurement

Note: Radiated emission test (below 1GHz) and power line conducted emission test items chosen the worst maximum power.

Radiated Emission Test (Above 1GHz):

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)	TX Function
B	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0	1TX, 2TX
	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	MCS0	1TX, 2TX
	802.11ac (VHT40)		38 to 46	38, 46	OFDM	MCS0	1TX, 2TX
	802.11ac (VHT80)		42	42	OFDM	MCS0	1TX, 2TX
B	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0	1TX, 2TX
	802.11ac (VHT20)		52 to 64	52, 60, 64	OFDM	MCS0	1TX, 2TX
	802.11ac (VHT40)		54 to 62	54, 62	OFDM	MCS0	1TX, 2TX
	802.11ac (VHT80)		58	58	OFDM	MCS0	1TX, 2TX
B	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0	1TX, 2TX
	802.11ac (VHT20)		100 to 144	100, 116, 140, 144	OFDM	MCS0	1TX, 2TX
	802.11ac (VHT40)		102 to 142	102, 110, 134, 142	OFDM	MCS0	1TX, 2TX
	802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	MCS0	1TX, 2TX
B	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0	1TX, 2TX
	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	MCS0	1TX, 2TX
	802.11ac (VHT40)		151 to 159	151, 159	OFDM	MCS0	1TX, 2TX
	802.11ac (VHT80)		155	155	OFDM	MCS0	1TX, 2TX

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)	TX Function
A, B	802.11a	5180-5240	36 to 48	157	OFDM	6.0	2TX
	802.11a	5260-5320	52 to 64		OFDM	6.0	2TX
	802.11a	5500-5720	100 to 144		OFDM	6.0	2TX
	802.11a	5745-5825	149 to 165		OFDM	6.0	2TX

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)	TX Function
A, B	802.11a	5180-5240	36 to 48	157	OFDM	6.0	2TX
	802.11a	5260-5320	52 to 64		OFDM	6.0	2TX
	802.11a	5500-5720	100 to 144		OFDM	6.0	2TX
	802.11a	5745-5825	149 to 165		OFDM	6.0	2TX

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)	TX Function
B	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0	1TX, 2TX
	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	MCS0	1TX, 2TX
	802.11ac (VHT40)		38 to 46	38, 46	OFDM	MCS0	1TX, 2TX
	802.11ac (VHT80)		42	42	OFDM	MCS0	1TX, 2TX
B	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0	1TX, 2TX
	802.11ac (VHT20)		52 to 64	52, 60, 64	OFDM	MCS0	1TX, 2TX
	802.11ac (VHT40)		54 to 62	54, 62	OFDM	MCS0	1TX, 2TX
	802.11ac (VHT80)		58	58	OFDM	MCS0	1TX, 2TX
B	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0	1TX, 2TX
	802.11ac (VHT20)		100 to 144	100, 116, 140, 144	OFDM	MCS0	1TX, 2TX
	802.11ac (VHT40)		102 to 142	102, 110, 134, 142	OFDM	MCS0	1TX, 2TX
	802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	MCS0	1TX, 2TX
B	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0	1TX, 2TX
	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	MCS0	1TX, 2TX
	802.11ac (VHT40)		151 to 159	151, 159	OFDM	MCS0	1TX, 2TX
	802.11ac (VHT80)		155	155	OFDM	MCS0	1TX, 2TX

Test Condition:

Applicable to	Environmental Conditions	Input Power	Tested by
RE $\geq$ 1G	21 deg. C, 68% RH 22 deg. C, 68% RH	120Vac, 60Hz	Edison Lee Raymond Lee
RE<1G	22 deg. C, 67% RH	120Vac, 60Hz	Rex Wang
PLC	25 deg. C, 75% RH	120Vac, 60Hz	Jones Chang Rex Wang
APCM	25 deg. C, 60% RH	120Vac, 60Hz	Ivan Tseng

3.3 Duty Cycle of Test Signal

1TX (High Power)

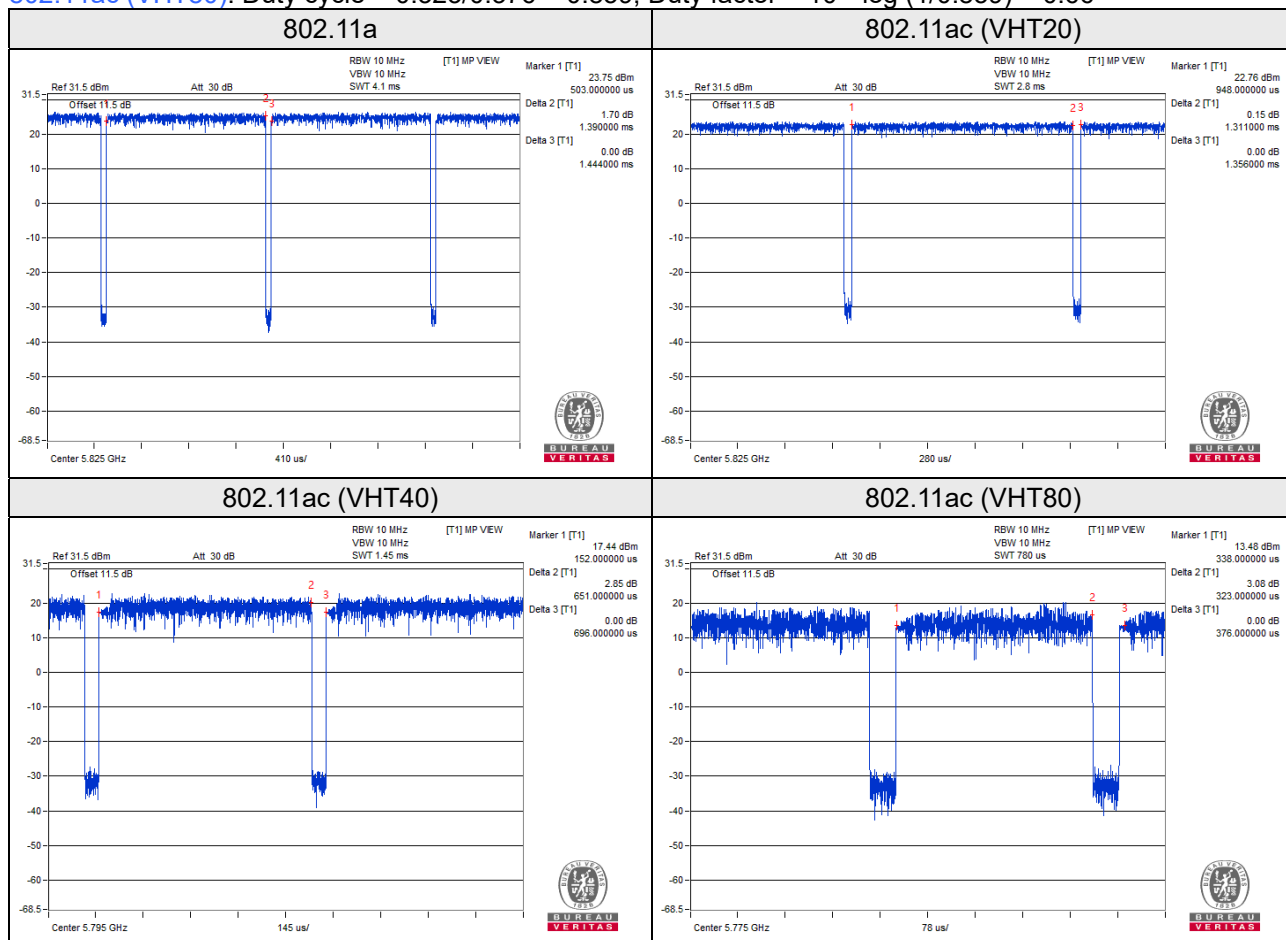
Duty cycle of test signal is < 98%, duty factor is required.

802.11a: Duty cycle = $1.390/1.444 = 0.963$, Duty factor = $10 * \log(1/0.963) = 0.17$

802.11ac (VHT20): Duty cycle = $1.311/1.356 = 0.967$, Duty factor = $10 * \log(1/0.967) = 0.15$

802.11ac (VHT40): Duty cycle = $0.651/0.696 = 0.935$, Duty factor = $10 * \log(1/0.935) = 0.29$

802.11ac (VHT80): Duty cycle = $0.323/0.376 = 0.859$, Duty factor = $10 * \log(1/0.859) = 0.66$



2TX (High Power)

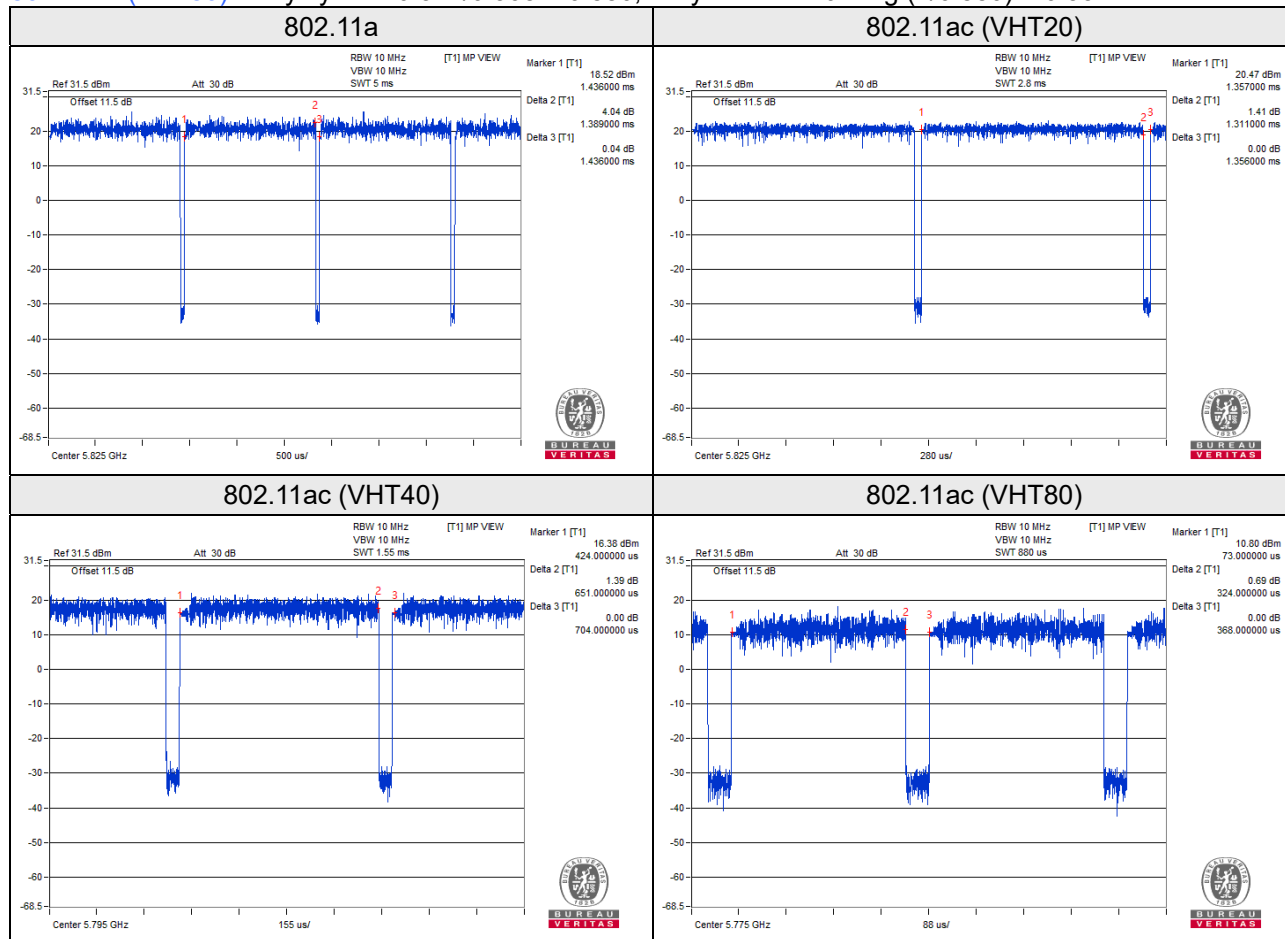
Duty cycle of test signal is < 98%, duty factor is required.

802.11a: Duty cycle = $1.389/1.436 = 0.967$, Duty factor = $10 * \log(1/0.967) = 0.14$

802.11ac (VHT20): Duty cycle = $1.311/1.356 = 0.967$, Duty factor = $10 * \log(1/0.967) = 0.15$

802.11ac (VHT40): Duty cycle = $0.651/0.704 = 0.925$, Duty factor = $10 * \log(1/0.925) = 0.34$

802.11ac (VHT80): Duty cycle = $0.324/0.368 = 0.880$, Duty factor = $10 * \log(1/0.880) = 0.55$



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.

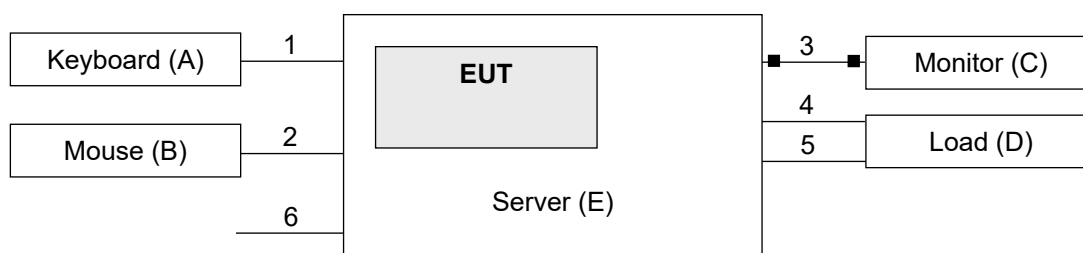
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Keyboard	DELL	SK-8115	CN-OJ4635-71616-53-OCAE	FCC DoC Approved	-
B.	Mouse	DELL	MS111-P	CN-011D3V-71581-1CJ-019A	FCC DoC Approved	-
C.	Monitor	ASUS	VP229DA	J8LMTF066497	FCC DoC Approved	-
D.	Load	NA	NA	NA	NA	-
E.	Server	Microsoft	DB040-W	NA	NA	Provided by manufacturer

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

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB Cable	1	1.8	Y	0	-
2.	USB Cable	1	1.8	Y	0	-
3.	D-Sub Cable	1	1.8	Y	2	-
4.	LAN Cable	3	1.5	N	0	RJ45, Cat5e
5.	RS-232 to LAN Cable	1	1.0	N	0	-
6.	AC Power Cable	1	1.8	N	0	Provided by manufacturer

Note: The core(s) is(are) originally attached to the cable(s).

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 (dBuV/m)	AV: 54 (dBuV/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(dBuV/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(dBuV/m) ^{*1} PK: 105.2 (dBuV/m) ^{*2} PK: 110.8(dBuV/m) ^{*3} PK: 122.2 (dBuV/m) ^{*4}
^{*1} beyond 75 MHz or more above of the band edge. ^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. ^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. ^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.			

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

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver Rohde & Schwarz	ESR3	102783	Dec. 21, 2020	Dec. 20, 2021
			Dec. 20, 2021	Dec. 19, 2022
Spectrum Analyzer KEYSIGHT	N9020B	MY60110513	Dec. 21, 2020	Dec. 20, 2021
			Dec. 24, 2021	Dec. 23, 2022
BILOG Antenna SCHWARZBECK	VULB9168	9168-1214	Nov. 04, 2020	Nov. 03, 2021
			Oct. 27, 2021	Oct. 26, 2022
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1170	Nov. 22, 2020	Nov. 21, 2021
			Nov. 14, 2021	Nov. 13, 2022
HORN Antenna SCHWARZBECK	BBHA 9170	995	Nov. 22, 2020	Nov. 21, 2021
			Nov. 14, 2021	Nov. 13, 2022
Loop Antenna EMCI	EM-6879	269	Sep. 17, 2020	Sep. 16, 2021
			Sep. 16, 2021	Sep. 15, 2022
Loop Antenna TESEQ	HLA 6121	45745	Jul. 21, 2021	Jul. 20, 2022
Preamplifier EMCI	EMC330N	980798	Jan. 12, 2021	Jan. 11, 2022
Preamplifier EMCI	EMC118A45SE	980809	Jan. 12, 2021	Jan. 11, 2022
Preamplifier EMCI	EMC184045SE	980786	Jan. 12, 2021	Jan. 11, 2022
RF signal cable EMCI	EMC104-SM-SM-(9000+2000+1000)	201244+ 201232+ 210103	Jan. 12, 2021	Jan. 11, 2022
RF signal cable EMCI	EMCCFD400-NM-NM-(9000+300+500)	201251+ 201249+ 201248	Jan. 12, 2021	Jan. 11, 2022
RF signal cable EMCI	EMC101G-KM-KM-(5000+3000+2000)	201261+201258+201249	Jan. 12, 2021	Jan. 11, 2022
Software BV ADT	ADT_Radiated_V7.6.15.9.5	NA	NA	NA
Antenna Tower Max-Full	MFA-515BSN	NA	NA	NA
Turn Table Max-Full	MFT-201SS	NA	NA	NA
Turn Table Controller Max-Full	MF-7802BS	MF780208676	NA	NA
Peak Power Analyzer KEYSIGHT	8990B	MY51000485	Jan. 19, 2021	Jan. 18, 2022
Wideband Power Sensor KEYSIGHT	N1923A	MY58020002	Jan. 11, 2021	Jan. 10, 2022

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in WM Chamber 9.
3. Test Date: Aug. 02 ~ Dec. 27, 2021

4.1.3 Test Procedures

For Radiated emission below 30MHz

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- 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.
- The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

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

For Radiated emission above 30MHz

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- 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:

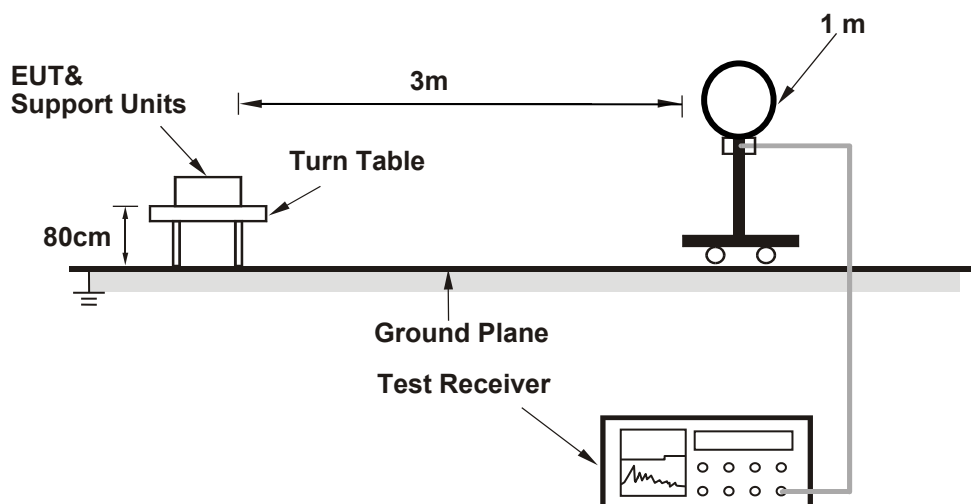
- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- 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.
1TX (High Power)
 (802.11a: RBW = 1MHz, VBW = 1kHz; 802.11ac (VHT20): RBW = 1MHz, VBW = 1kHz; 802.11ac (VHT40): RBW = 1MHz, VBW = 3kHz; 802.11ac (VHT80): RBW = 1MHz, VBW = 10kHz)
2TX (High Power)
 (802.11a: RBW = 1MHz, VBW = 1kHz; 802.11ac (VHT20): RBW = 1MHz, VBW = 1kHz; 802.11ac (VHT40): RBW = 1MHz, VBW = 3kHz; 802.11ac (VHT80): RBW = 1MHz, VBW = 10kHz)
- All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

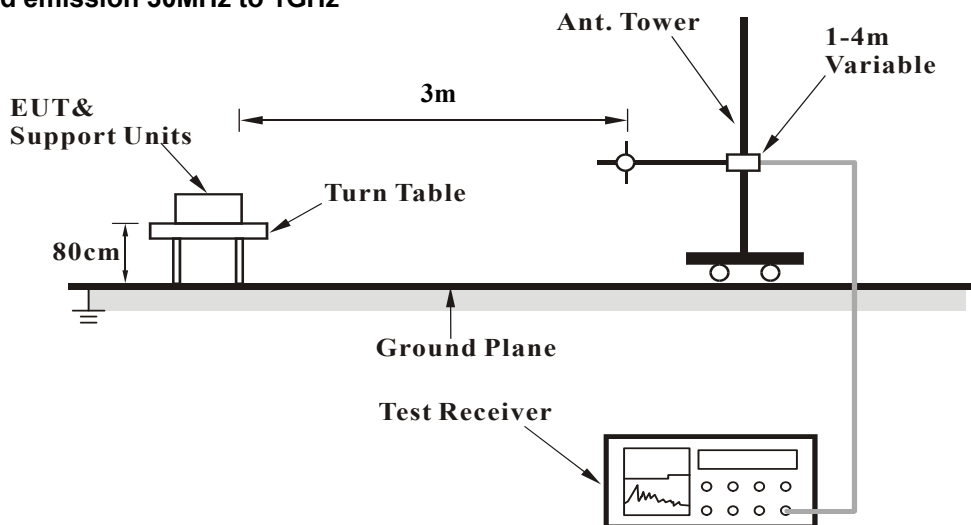
No deviation.

4.1.5 Test Setup

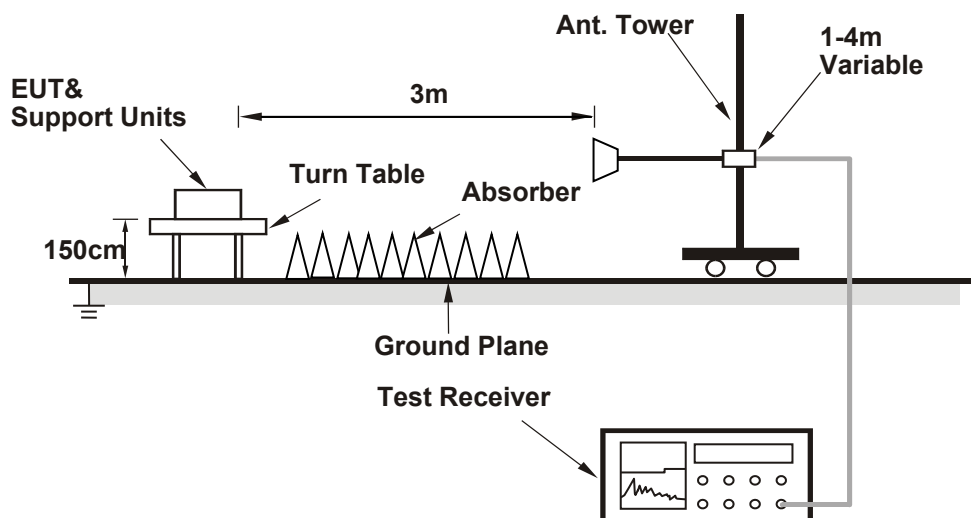
For Radiated emission below 30MHz



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:

1TX (High Power)

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.3 PK	74.0	-15.7	1.82 H	284	55.7	2.6
2	5150.00	46.2 AV	54.0	-7.8	1.82 H	284	43.6	2.6
3	*5180.00	102.4 PK			1.82 H	284	62.3	40.1
4	*5180.00	94.3 AV			1.82 H	284	54.2	40.1
5	#10360.00	57.1 PK	68.2	-11.1	1.22 H	178	46.7	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.2 PK	74.0	-10.8	2.88 V	36	60.6	2.6
2	5150.00	52.1 AV	54.0	-1.9	2.88 V	36	49.5	2.6
3	*5180.00	113.5 PK			2.88 V	36	73.4	40.1
4	*5180.00	104.9 AV			2.88 V	36	64.8	40.1
5	#10360.00	57.1 PK	68.2	-11.1	1.35 V	186	46.7	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.9 PK	74.0	-16.1	2.10 H	279	55.3	2.6
2	5150.00	45.9 AV	54.0	-8.1	2.10 H	279	43.3	2.6
3	*5200.00	103.3 PK			2.10 H	279	63.3	40.0
4	*5200.00	95.8 AV			2.10 H	279	55.8	40.0
5	#10400.00	56.8 PK	68.2	-11.4	1.38 H	199	46.2	10.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.8 PK	74.0	-11.2	2.85 V	46	60.2	2.6
2	5150.00	52.1 AV	54.0	-1.9	2.85 V	46	49.5	2.6
3	*5200.00	113.8 PK			2.85 V	46	73.8	40.0
4	*5200.00	105.2 AV			2.85 V	46	65.2	40.0
5	#10400.00	58.1 PK	68.2	-10.1	1.56 V	192	47.5	10.6

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.1 PK	74.0	-15.9	2.04 H	282	55.5	2.6
2	5150.00	46.3 AV	54.0	-7.7	2.04 H	282	43.7	2.6
3	*5240.00	107.1 PK			2.04 H	282	67.3	39.8
4	*5240.00	99.0 AV			2.04 H	282	59.2	39.8
5	5350.00	56.7 PK	74.0	-17.3	2.04 H	282	54.5	2.2
6	5350.00	46.3 AV	54.0	-7.7	2.04 H	282	44.1	2.2
7	#10480.00	57.1 PK	68.2	-11.1	1.28 H	178	46.6	10.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.0 PK	74.0	-11.0	2.79 V	240	60.4	2.6
2	5150.00	51.6 AV	54.0	-2.4	2.79 V	240	49.0	2.6
3	*5240.00	116.3 PK			2.79 V	240	76.5	39.8
4	*5240.00	107.9 AV			2.79 V	240	68.1	39.8
5	5350.00	60.6 PK	74.0	-13.4	2.79 V	240	58.4	2.2
6	5350.00	50.0 AV	54.0	-4.0	2.79 V	240	47.8	2.2
7	#10480.00	57.4 PK	68.2	-10.8	1.44 V	33	46.9	10.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.7 PK	74.0	-17.3	1.99 H	278	54.1	2.6
2	5150.00	45.8 AV	54.0	-8.2	1.99 H	278	43.2	2.6
3	*5260.00	106.9 PK			1.99 H	278	67.1	39.8
4	*5260.00	98.5 AV			1.99 H	278	58.7	39.8
5	5350.00	58.8 PK	74.0	-15.2	1.99 H	278	56.6	2.2
6	5350.00	46.8 AV	54.0	-7.2	1.99 H	278	44.6	2.2
7	#10520.00	56.9 PK	68.2	-11.3	1.29 H	191	46.5	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.2 PK	74.0	-11.8	2.66 V	217	59.6	2.6
2	5150.00	51.2 AV	54.0	-2.8	2.66 V	217	48.6	2.6
3	*5260.00	117.3 PK			2.66 V	217	77.5	39.8
4	*5260.00	108.7 AV			2.66 V	217	68.9	39.8
5	5350.00	64.1 PK	74.0	-9.9	2.66 V	217	61.9	2.2
6	5350.00	52.5 AV	54.0	-1.5	2.66 V	217	50.3	2.2
7	#10520.00	58.1 PK	68.2	-10.1	1.56 V	40	47.7	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	105.6 PK			2.07 H	280	65.7	39.9
2	*5300.00	96.9 AV			2.07 H	280	57.0	39.9
3	5350.00	57.1 PK	74.0	-16.9	2.07 H	280	54.9	2.2
4	5350.00	46.6 AV	54.0	-7.4	2.07 H	280	44.4	2.2
5	10600.00	56.8 PK	74.0	-17.2	1.28 H	177	46.4	10.4
6	10600.00	45.3 AV	54.0	-8.7	1.28 H	177	34.9	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	115.3 PK			2.91 V	123	75.4	39.9
2	*5300.00	106.4 AV			2.91 V	123	66.5	39.9
3	5350.00	63.3 PK	74.0	-10.7	2.91 V	123	61.1	2.2
4	5350.00	52.4 AV	54.0	-1.6	2.91 V	123	50.2	2.2
5	10600.00	58.2 PK	74.0	-15.8	1.37 V	185	47.8	10.4
6	10600.00	46.5 AV	54.0	-7.5	1.37 V	185	36.1	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	105.4 PK			2.04 H	279	65.4	40.0
2	*5320.00	96.5 AV			2.04 H	279	56.5	40.0
3	5350.00	57.9 PK	74.0	-16.1	2.04 H	279	55.7	2.2
4	5350.00	46.8 AV	54.0	-7.2	2.04 H	279	44.6	2.2
5	10640.00	56.7 PK	74.0	-17.3	1.36 H	196	46.1	10.6
6	10640.00	45.6 AV	54.0	-8.4	1.36 H	196	35.0	10.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	114.2 PK			2.46 V	237	74.2	40.0
2	*5320.00	104.9 AV			2.46 V	237	64.9	40.0
3	5350.00	63.3 PK	74.0	-10.7	2.46 V	237	61.1	2.2
4	5350.00	52.3 AV	54.0	-1.7	2.46 V	237	50.1	2.2
5	10640.00	57.8 PK	74.0	-16.2	1.58 V	37	47.2	10.6
6	10640.00	46.0 AV	54.0	-8.0	1.58 V	37	35.4	10.6

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.7 PK	74.0	-17.3	1.92 H	286	54.3	2.4
2	5460.00	46.7 AV	54.0	-7.3	1.92 H	286	44.3	2.4
3	#5470.00	58.8 PK	68.2	-9.4	1.92 H	286	56.4	2.4
4	*5500.00	103.8 PK			1.92 H	286	63.3	40.5
5	*5500.00	95.5 AV			1.92 H	286	55.0	40.5
6	11000.00	57.5 PK	74.0	-16.5	1.10 H	188	47.5	10.0
7	11000.00	46.3 AV	54.0	-7.7	1.10 H	188	36.3	10.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.6 PK	74.0	-12.4	2.49 V	223	59.2	2.4
2	5460.00	51.3 AV	54.0	-2.7	2.49 V	223	48.9	2.4
3	#5470.00	64.0 PK	68.2	-4.2	2.49 V	223	61.6	2.4
4	*5500.00	111.8 PK			2.49 V	223	71.3	40.5
5	*5500.00	103.8 AV			2.49 V	223	63.3	40.5
6	11000.00	57.8 PK	74.0	-16.2	1.58 V	30	47.8	10.0
7	11000.00	47.9 AV	54.0	-6.1	1.58 V	30	37.9	10.0

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	107.7 PK			1.91 H	287	67.1	40.6
2	*5580.00	99.5 AV			1.91 H	287	58.9	40.6
3	11160.00	58.0 PK	74.0	-16.0	1.15 H	186	47.4	10.6
4	11160.00	47.0 AV	54.0	-7.0	1.15 H	186	36.4	10.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	115.5 PK			2.37 V	205	74.9	40.6
2	*5580.00	106.8 AV			2.37 V	205	66.2	40.6
3	11160.00	59.5 PK	74.0	-14.5	1.52 V	22	48.9	10.6
4	11160.00	48.8 AV	54.0	-5.2	1.52 V	22	38.2	10.6

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	102.4 PK			1.68 H	306	61.7	40.7
2	*5700.00	94.5 AV			1.68 H	306	53.8	40.7
3	#5725.00	60.1 PK	68.2	-8.1	1.68 H	306	57.3	2.8
4	11400.00	57.0 PK	74.0	-17.0	1.05 H	196	46.7	10.3
5	11400.00	46.0 AV	54.0	-8.0	1.05 H	196	35.7	10.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	110.2 PK			2.97 V	227	69.5	40.7
2	*5700.00	102.1 AV			2.97 V	227	61.4	40.7
3	#5725.00	66.0 PK	68.2	-2.2	2.97 V	227	63.2	2.8
4	11400.00	57.9 PK	74.0	-16.1	1.53 V	47	47.6	10.3
5	11400.00	47.2 AV	54.0	-6.8	1.53 V	47	36.9	10.3

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	58.1 PK	68.2	-10.1	2.84 H	279	56.7	1.4
2	*5720.00	106.1 PK			2.84 H	279	66.4	39.7
3	*5720.00	97.2 AV			2.84 H	279	57.5	39.7
4	#5850.00	57.8 PK	68.2	-10.4	2.84 H	279	55.9	1.9
5	11440.00	59.8 PK	74.0	-14.2	1.13 H	85	49.6	10.2
6	11440.00	48.5 AV	54.0	-5.5	1.13 H	85	38.3	10.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.6 PK	68.2	-11.6	2.80 V	211	55.2	1.4
2	*5720.00	113.0 PK			2.80 V	211	73.3	39.7
3	*5720.00	103.9 AV			2.80 V	211	64.2	39.7
4	#5850.00	59.1 PK	68.2	-9.1	2.80 V	211	57.2	1.9
5	11440.00	62.4 PK	74.0	-11.6	2.30 V	4	52.2	10.2
6	11440.00	50.4 AV	54.0	-3.6	2.30 V	4	40.2	10.2

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.40	58.1 PK	68.2	-10.1	2.68 H	278	55.3	2.8
2	*5745.00	107.8 PK			2.68 H	278	66.9	40.9
3	*5745.00	99.0 AV			2.68 H	278	58.1	40.9
4	#5936.00	57.7 PK	68.2	-10.5	2.68 H	278	54.4	3.3
5	11490.00	57.4 PK	74.0	-16.6	1.25 H	193	46.9	10.5
6	11490.00	46.5 AV	54.0	-7.5	1.25 H	193	36.0	10.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.20	59.0 PK	68.2	-9.2	2.54 V	249	56.2	2.8
2	*5745.00	115.1 PK			2.54 V	249	74.2	40.9
3	*5745.00	104.3 AV			2.54 V	249	63.4	40.9
4	#5957.20	58.8 PK	68.2	-9.4	2.54 V	249	55.4	3.4
5	11490.00	58.1 PK	74.0	-15.9	1.66 V	63	47.6	10.5
6	11490.00	47.0 AV	54.0	-7.0	1.66 V	63	36.5	10.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5630.00	57.2 PK	68.2	-11.0	2.81 H	288	54.5	2.7
2	*5785.00	107.8 PK			2.81 H	288	66.7	41.1
3	*5785.00	99.0 AV			2.81 H	288	57.9	41.1
4	#5940.00	58.2 PK	68.2	-10.0	2.81 H	288	54.9	3.3
5	11570.00	57.5 PK	74.0	-16.5	1.11 H	200	47.1	10.4
6	11570.00	46.5 AV	54.0	-7.5	1.11 H	200	36.1	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5618.00	58.5 PK	68.2	-9.7	2.49 V	242	55.9	2.6
2	*5785.00	116.1 PK			2.49 V	242	75.0	41.1
3	*5785.00	104.8 AV			2.49 V	242	63.7	41.1
4	#5941.20	59.0 PK	68.2	-9.2	2.49 V	242	55.7	3.3
5	11570.00	57.9 PK	74.0	-16.1	1.63 V	58	47.5	10.4
6	11570.00	47.0 AV	54.0	-7.0	1.63 V	58	36.6	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5620.80	57.5 PK	68.2	-10.7	2.69 H	282	54.9	2.6
2	*5825.00	107.4 PK			2.69 H	282	66.2	41.2
3	*5825.00	98.7 AV			2.69 H	282	57.5	41.2
4	#5944.80	57.7 PK	68.2	-10.5	2.69 H	282	54.4	3.3
5	11650.00	57.7 PK	74.0	-16.3	1.08 H	189	47.6	10.1
6	11650.00	46.9 AV	54.0	-7.1	1.08 H	189	36.8	10.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.40	57.9 PK	68.2	-10.3	2.45 V	227	55.1	2.8
2	*5825.00	114.9 PK			2.45 V	227	73.7	41.2
3	*5825.00	105.9 AV			2.45 V	227	64.7	41.2
4	#5931.60	59.7 PK	68.2	-8.5	2.45 V	227	56.4	3.3
5	11650.00	58.7 PK	74.0	-15.3	1.69 V	63	48.6	10.1
6	11650.00	47.3 AV	54.0	-6.7	1.69 V	63	37.2	10.1

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.7 PK	74.0	-16.3	2.00 H	274	55.1	2.6
2	5150.00	45.7 AV	54.0	-8.3	2.00 H	274	43.1	2.6
3	*5180.00	102.8 PK			1.99 H	274	62.7	40.1
4	*5180.00	91.8 AV			1.99 H	274	51.7	40.1
5	#10360.00	57.2 PK	68.2	-11.0	1.37 H	166	46.8	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.3 PK	74.0	-10.7	2.88 V	149	60.7	2.6
2	5150.00	52.0 AV	54.0	-2.0	2.88 V	149	49.4	2.6
3	*5180.00	112.5 PK			2.88 V	149	72.4	40.1
4	*5180.00	102.1 AV			2.88 V	149	62.0	40.1
5	#10360.00	57.5 PK	68.2	-10.7	1.29 V	195	47.1	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.0 PK	74.0	-17.0	1.42 H	44	55.3	1.7
2	5150.00	45.4 AV	54.0	-8.6	1.42 H	22	43.7	1.7
3	*5200.00	100.2 PK			1.42 H	22	61.2	39.0
4	*5200.00	90.0 AV			1.42 H	22	51.0	39.0
5	#10400.00	57.3 PK	68.2	-10.9	2.42 H	129	46.8	10.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.8 PK	74.0	-17.2	2.93 V	59	55.1	1.7
2	5150.00	47.5 AV	54.0	-6.5	2.93 V	59	45.8	1.7
3	*5200.00	109.7 PK			2.93 V	59	70.7	39.0
4	*5200.00	99.8 AV			2.93 V	59	60.8	39.0
5	#10400.00	55.3 PK	68.2	-12.9	1.99 V	90	44.8	10.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.2 PK	74.0	-16.8	1.99 H	289	54.6	2.6
2	5150.00	45.4 AV	54.0	-8.6	1.99 H	289	42.8	2.6
3	*5240.00	106.4 PK			1.99 H	289	66.6	39.8
4	*5240.00	95.8 AV			1.99 H	289	56.0	39.8
5	5350.00	57.4 PK	74.0	-16.6	1.99 H	289	55.2	2.2
6	5350.00	45.6 AV	54.0	-8.4	1.99 H	289	43.4	2.2
7	#10480.00	57.5 PK	68.2	-10.7	1.40 H	181	47.0	10.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.5 PK	74.0	-10.5	2.69 V	245	60.9	2.6
2	5150.00	52.0 AV	54.0	-2.0	2.69 V	245	49.4	2.6
3	*5240.00	116.9 PK			2.69 V	245	77.1	39.8
4	*5240.00	105.0 AV			2.69 V	245	65.2	39.8
5	5350.00	60.1 PK	74.0	-13.9	2.69 V	245	57.9	2.2
6	5350.00	48.8 AV	54.0	-5.2	2.69 V	245	46.6	2.2
7	#10480.00	58.2 PK	68.2	-10.0	1.48 V	56	47.7	10.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.6 PK	74.0	-16.4	1.78 H	292	55.0	2.6
2	5150.00	45.2 AV	54.0	-8.8	1.78 H	292	42.6	2.6
3	*5260.00	107.0 PK			1.78 H	292	67.2	39.8
4	*5260.00	96.3 AV			1.78 H	292	56.5	39.8
5	5350.00	57.0 PK	74.0	-17.0	1.78 H	292	54.8	2.2
6	5350.00	46.3 AV	54.0	-7.7	1.78 H	292	44.1	2.2
7	#10520.00	56.7 PK	68.2	-11.5	1.19 H	190	46.3	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.6 PK	74.0	-12.4	2.50 V	234	59.0	2.6
2	5150.00	49.8 AV	54.0	-4.2	2.50 V	234	47.2	2.6
3	*5260.00	115.9 PK			2.50 V	234	76.1	39.8
4	*5260.00	104.6 AV			2.50 V	234	64.8	39.8
5	5350.00	63.6 PK	74.0	-10.4	2.50 V	234	61.4	2.2
6	5350.00	52.2 AV	54.0	-1.8	2.50 V	234	50.0	2.2
7	#10520.00	57.5 PK	68.2	-10.7	1.60 V	50	47.1	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	104.9 PK			1.93 H	279	65.0	39.9
2	*5300.00	97.0 AV			1.93 H	279	57.1	39.9
3	5350.00	57.6 PK	74.0	-16.4	1.93 H	279	55.4	2.2
4	5350.00	46.5 AV	54.0	-7.5	1.93 H	279	44.3	2.2
5	10600.00	55.6 PK	74.0	-18.4	1.13 H	195	45.2	10.4
6	10600.00	46.0 AV	54.0	-8.0	1.13 H	195	35.6	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	114.7 PK			2.78 V	29	74.8	39.9
2	*5300.00	103.7 AV			2.78 V	29	63.8	39.9
3	5350.00	63.5 PK	74.0	-10.5	2.78 V	29	61.3	2.2
4	5350.00	52.2 AV	54.0	-1.8	2.78 V	29	50.0	2.2
5	10600.00	57.4 PK	74.0	-16.6	1.34 V	165	47.0	10.4
6	10600.00	46.6 AV	54.0	-7.4	1.34 V	165	36.2	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	103.1 PK			1.90 H	280	63.1	40.0
2	*5320.00	95.1 AV			1.90 H	280	55.1	40.0
3	5350.00	57.9 PK	74.0	-16.1	1.90 H	280	55.7	2.2
4	5350.00	46.4 AV	54.0	-7.6	1.90 H	280	44.2	2.2
5	10640.00	56.6 PK	74.0	-17.4	1.21 H	190	46.0	10.6
6	10640.00	45.2 AV	54.0	-8.8	1.21 H	190	34.6	10.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	113.8 PK			2.88 V	48	73.8	40.0
2	*5320.00	103.4 AV			2.88 V	48	63.4	40.0
3	5350.00	64.5 PK	74.0	-9.5	2.88 V	48	62.3	2.2
4	5350.00	52.1 AV	54.0	-1.9	2.88 V	48	49.9	2.2
5	10640.00	57.6 PK	74.0	-16.4	1.42 V	190	47.0	10.6
6	10640.00	46.5 AV	54.0	-7.5	1.42 V	190	35.9	10.6

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.4 PK	74.0	-16.6	1.00 H	44	56.0	1.4
2	5460.00	45.6 AV	54.0	-8.4	1.00 H	44	44.2	1.4
3	#5470.00	57.5 PK	68.2	-10.7	1.00 H	44	56.1	1.4
4	*5500.00	101.1 PK			1.00 H	44	61.6	39.5
5	*5500.00	90.0 AV			1.00 H	44	50.5	39.5
6	11000.00	57.2 PK	74.0	-16.8	2.30 H	130	47.1	10.1
7	11000.00	46.0 AV	54.0	-8.0	2.30 H	130	35.9	10.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.1 PK	74.0	-12.9	2.80 V	138	59.7	1.4
2	5460.00	50.1 AV	54.0	-3.9	2.80 V	138	48.7	1.4
3	#5470.00	61.0 PK	68.2	-7.2	2.80 V	138	59.6	1.4
4	*5500.00	111.4 PK			2.80 V	138	71.9	39.5
5	*5500.00	101.6 AV			2.80 V	138	62.1	39.5
6	11000.00	56.0 PK	74.0	-18.0	2.00 V	80	45.9	10.1
7	11000.00	45.2 AV	54.0	-8.8	2.00 V	80	35.1	10.1

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	108.1 PK			1.92 H	295	67.5	40.6
2	*5580.00	96.1 AV			1.92 H	295	55.5	40.6
3	11160.00	58.2 PK	74.0	-15.8	1.25 H	200	47.6	10.6
4	11160.00	46.6 AV	54.0	-7.4	1.25 H	200	36.0	10.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	116.4 PK			2.31 V	216	75.8	40.6
2	*5580.00	104.5 AV			2.31 V	216	63.9	40.6
3	11160.00	59.2 PK	74.0	-14.8	1.59 V	39	48.6	10.6
4	11160.00	48.1 AV	54.0	-5.9	1.59 V	39	37.5	10.6

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	99.6 PK			3.01 H	277	58.9	40.7
2	*5700.00	89.4 AV			3.01 H	277	48.7	40.7
3	#5725.00	56.5 PK	68.2	-11.7	3.01 H	277	53.7	2.8
4	11400.00	58.1 PK	74.0	-15.9	1.25 H	190	47.8	10.3
5	11400.00	44.6 AV	54.0	-9.4	1.25 H	190	34.3	10.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	111.2 PK			2.78 V	212	70.5	40.7
2	*5700.00	99.5 AV			2.78 V	212	58.8	40.7
3	#5725.00	66.0 PK	68.2	-2.2	2.78 V	212	63.2	2.8
4	11400.00	58.5 PK	74.0	-15.5	1.70 V	19	48.2	10.3
5	11400.00	47.3 AV	54.0	-6.7	1.70 V	19	37.0	10.3

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	57.2 PK	68.2	-11.0	2.95 H	270	55.8	1.4
2	*5720.00	107.1 PK			2.95 H	270	67.4	39.7
3	*5720.00	97.3 AV			2.95 H	270	57.6	39.7
4	#5850.00	58.1 PK	68.2	-10.1	2.95 H	270	56.2	1.9
5	11440.00	59.5 PK	74.0	-14.5	1.25 H	270	49.3	10.2
6	11440.00	48.3 AV	54.0	-5.7	1.25 H	270	38.1	10.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	57.3 PK	68.2	-10.9	2.92 V	200	55.9	1.4
2	*5720.00	113.1 PK			2.92 V	200	73.4	39.7
3	*5720.00	102.0 AV			2.92 V	200	62.3	39.7
4	#5850.00	58.0 PK	68.2	-10.2	2.92 V	200	56.1	1.9
5	11440.00	61.5 PK	74.0	-12.5	2.50 V	0	51.3	10.2
6	11440.00	50.0 AV	54.0	-4.0	2.50 V	0	39.8	10.2

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.40	57.1 PK	68.2	-11.1	2.75 H	290	54.3	2.8
2	*5745.00	104.8 PK			2.75 H	290	63.9	40.9
3	*5745.00	93.2 AV			2.75 H	290	52.3	40.9
4	#5992.80	58.6 PK	68.2	-9.6	2.75 H	290	55.0	3.6
5	11490.00	57.5 PK	74.0	-16.5	1.11 H	199	47.0	10.5
6	11490.00	46.4 AV	54.0	-7.6	1.11 H	199	35.9	10.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5633.20	59.5 PK	68.2	-8.7	2.72 V	253	56.8	2.7
2	*5745.00	113.8 PK			2.72 V	253	72.9	40.9
3	*5745.00	103.1 AV			2.72 V	253	62.2	40.9
4	#5954.00	59.4 PK	68.2	-8.8	2.72 V	253	56.0	3.4
5	11490.00	58.2 PK	74.0	-15.8	1.63 V	63	47.7	10.5
6	11490.00	47.0 AV	54.0	-7.0	1.63 V	63	36.5	10.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5612.80	57.7 PK	68.2	-10.5	2.75 H	293	55.1	2.6
2	*5785.00	103.3 PK			2.75 H	293	62.2	41.1
3	*5785.00	92.4 AV			2.75 H	293	51.3	41.1
4	#5942.80	58.5 PK	68.2	-9.7	2.75 H	293	55.2	3.3
5	11570.00	57.0 PK	74.0	-17.0	1.13 H	203	46.6	10.4
6	11570.00	47.1 AV	54.0	-6.9	1.13 H	203	36.7	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5628.40	59.1 PK	68.2	-9.1	2.72 V	250	56.4	2.7
2	*5785.00	114.2 PK			2.72 V	250	73.1	41.1
3	*5785.00	103.1 AV			2.72 V	250	62.0	41.1
4	#5979.20	59.2 PK	68.2	-9.0	2.72 V	250	55.8	3.4
5	11570.00	57.7 PK	74.0	-16.3	1.82 V	55	47.3	10.4
6	11570.00	47.3 AV	54.0	-6.7	1.82 V	55	36.9	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5609.20	57.6 PK	68.2	-10.6	2.82 H	293	55.0	2.6
2	*5825.00	104.2 PK			2.82 H	293	63.0	41.2
3	*5825.00	93.1 AV			2.82 H	293	51.9	41.2
4	#5932.00	57.9 PK	68.2	-10.3	2.82 H	293	54.6	3.3
5	11650.00	56.2 PK	74.0	-17.8	1.41 H	202	46.1	10.1
6	11650.00	45.9 AV	54.0	-8.1	1.41 H	202	35.8	10.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.20	57.4 PK	68.2	-10.8	2.33 V	233	54.6	2.8
2	*5825.00	113.3 PK			2.33 V	233	72.1	41.2
3	*5825.00	103.2 AV			2.33 V	233	62.0	41.2
4	#5926.40	60.3 PK	68.2	-7.9	2.33 V	233	57.0	3.3
5	11650.00	57.0 PK	74.0	-17.0	1.70 V	30	46.9	10.1
6	11650.00	46.1 AV	54.0	-7.9	1.70 V	30	36.0	10.1

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.5 PK	74.0	-16.5	1.92 H	270	54.9	2.6
2	5150.00	45.8 AV	54.0	-8.2	1.92 H	270	43.2	2.6
3	*5190.00	99.7 PK			1.92 H	270	59.7	40.0
4	*5190.00	90.0 AV			1.92 H	270	50.0	40.0
5	#10380.00	56.6 PK	68.2	-11.6	1.29 H	187	46.1	10.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.1 PK	74.0	-10.9	2.89 V	245	60.5	2.6
2	5150.00	52.2 AV	54.0	-1.8	2.89 V	245	49.6	2.6
3	*5190.00	111.9 PK			2.89 V	245	71.9	40.0
4	*5190.00	99.6 AV			2.89 V	245	59.6	40.0
5	#10380.00	57.2 PK	68.2	-11.0	1.63 V	56	46.7	10.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.1 PK	74.0	-15.9	1.89 H	279	55.5	2.6
2	5150.00	45.8 AV	54.0	-8.2	1.89 H	279	43.2	2.6
3	*5230.00	104.5 PK			1.89 H	279	64.7	39.8
4	*5230.00	92.5 AV			1.89 H	279	52.7	39.8
5	5350.00	57.2 PK	74.0	-16.8	1.89 H	279	55.0	2.2
6	5350.00	45.6 AV	54.0	-8.4	1.89 H	279	43.4	2.2
7	#10460.00	56.9 PK	68.2	-11.3	1.36 H	190	46.6	10.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.0 PK	74.0	-11.0	2.84 V	234	60.4	2.6
2	5150.00	52.0 AV	54.0	-2.0	2.84 V	234	49.4	2.6
3	*5230.00	113.0 PK			2.84 V	234	73.2	39.8
4	*5230.00	102.0 AV			2.84 V	234	62.2	39.8
5	5350.00	58.6 PK	74.0	-15.4	2.84 V	234	56.4	2.2
6	5350.00	48.5 AV	54.0	-5.5	2.84 V	234	46.3	2.2
7	#10460.00	57.5 PK	68.2	-10.7	1.49 V	32	47.2	10.3

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.3 PK	74.0	-16.7	2.03 H	275	54.7	2.6
2	5150.00	45.2 AV	54.0	-8.8	2.03 H	275	42.6	2.6
3	*5270.00	103.0 PK			2.03 H	275	63.1	39.9
4	*5270.00	93.5 AV			2.03 H	275	53.6	39.9
5	5350.00	57.5 PK	74.0	-16.5	2.03 H	275	55.3	2.2
6	5350.00	46.4 AV	54.0	-7.6	2.03 H	275	44.2	2.2
7	#10540.00	56.0 PK	68.2	-12.2	1.19 H	195	45.6	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.1 PK	74.0	-13.9	2.60 V	244	57.5	2.6
2	5150.00	49.0 AV	54.0	-5.0	2.60 V	244	46.4	2.6
3	*5270.00	116.2 PK			2.60 V	244	76.3	39.9
4	*5270.00	103.3 AV			2.60 V	244	63.4	39.9
5	5350.00	63.6 PK	74.0	-10.4	2.60 V	244	61.4	2.2
6	5350.00	52.1 AV	54.0	-1.9	2.60 V	244	49.9	2.2
7	#10540.00	56.7 PK	68.2	-11.5	1.55 V	36	46.3	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	102.5 PK			1.84 H	270	62.5	40.0
2	*5310.00	90.8 AV			1.84 H	270	50.8	40.0
3	5350.00	57.1 PK	74.0	-16.9	1.84 H	270	54.9	2.2
4	5350.00	46.6 AV	54.0	-7.4	1.84 H	270	44.4	2.2
5	10620.00	55.5 PK	74.0	-18.5	1.17 H	182	45.0	10.5
6	10620.00	44.3 AV	54.0	-9.7	1.17 H	182	33.8	10.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	110.7 PK			2.60 V	202	70.7	40.0
2	*5310.00	100.1 AV			2.60 V	202	60.1	40.0
3	5350.00	63.0 PK	74.0	-11.0	2.60 V	202	60.8	2.2
4	5350.00	52.0 AV	54.0	-2.0	2.60 V	202	49.8	2.2
5	10620.00	57.0 PK	74.0	-17.0	1.55 V	33	46.5	10.5
6	10620.00	44.9 AV	54.0	-9.1	1.55 V	33	34.4	10.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.1 PK	74.0	-16.9	1.88 H	265	54.7	2.4
2	5460.00	46.2 AV	54.0	-7.8	1.88 H	265	43.8	2.4
3	#5470.00	58.0 PK	68.2	-10.2	1.88 H	265	55.6	2.4
4	*5510.00	102.3 PK			1.88 H	265	61.8	40.5
5	*5510.00	90.2 AV			1.88 H	265	49.7	40.5
6	11020.00	55.9 PK	74.0	-18.1	1.20 H	196	45.8	10.1
7	11020.00	45.9 AV	54.0	-8.1	1.20 H	196	35.8	10.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.2 PK	74.0	-12.8	2.30 V	220	58.8	2.4
2	5460.00	51.8 AV	54.0	-2.2	2.30 V	220	49.4	2.4
3	#5470.00	63.6 PK	68.2	-4.6	2.30 V	220	61.2	2.4
4	*5510.00	110.0 PK			2.30 V	220	69.5	40.5
5	*5510.00	99.8 AV			2.30 V	220	59.3	40.5
6	11020.00	57.3 PK	74.0	-16.7	1.54 V	50	47.2	10.1
7	11020.00	45.9 AV	54.0	-8.1	1.54 V	50	35.8	10.1

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	102.1 PK			1.93 H	290	61.5	40.6
2	*5550.00	92.9 AV			1.93 H	290	52.3	40.6
3	11100.00	57.4 PK	74.0	-16.6	1.23 H	203	47.0	10.4
4	11100.00	45.8 AV	54.0	-8.2	1.23 H	203	35.4	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	110.6 PK			2.56 V	209	70.0	40.6
2	*5550.00	100.7 AV			2.56 V	209	60.1	40.6
3	11100.00	58.0 PK	74.0	-16.0	1.75 V	50	47.6	10.4
4	11100.00	46.3 AV	54.0	-7.7	1.75 V	50	35.9	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	104.2 PK			1.11 H	45	64.5	39.7
2	*5670.00	94.6 AV			1.11 H	45	54.9	39.7
3	#5725.00	60.2 PK	68.2	-8.0	1.11 H	38	58.5	1.7
4	11340.00	57.2 PK	74.0	-16.8	2.39 H	125	46.9	10.3
5	11340.00	46.2 AV	54.0	-7.8	2.39 H	125	35.9	10.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	108.6 PK			2.93 V	153	68.9	39.7
2	*5670.00	97.7 AV			2.93 V	153	58.0	39.7
3	#5725.00	64.0 PK	68.2	-4.2	2.93 V	153	62.3	1.7
4	11340.00	56.2 PK	74.0	-17.8	2.01 V	82	45.9	10.3
5	11340.00	45.3 AV	54.0	-8.7	2.01 V	82	35.0	10.3

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.2 PK	68.2	-12.0	2.92 H	282	54.8	1.4
2	*5710.00	104.6 PK			2.92 H	282	64.9	39.7
3	*5710.00	93.3 AV			2.92 H	282	53.6	39.7
4	#5850.00	56.1 PK	68.2	-12.1	2.92 H	282	54.2	1.9
5	11420.00	58.1 PK	74.0	-15.9	1.23 H	90	47.9	10.2
6	11420.00	47.5 AV	54.0	-6.5	1.23 H	90	37.3	10.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.0 PK	68.2	-12.2	2.93 V	200	54.6	1.4
2	*5710.00	110.9 PK			2.93 V	200	71.2	39.7
3	*5710.00	99.8 AV			2.93 V	200	60.1	39.7
4	#5850.00	56.8 PK	68.2	-11.4	2.93 V	200	54.9	1.9
5	11420.00	60.1 PK	74.0	-13.9	2.33 V	5	49.9	10.2
6	11420.00	48.8 AV	54.0	-5.2	2.33 V	5	38.6	10.2

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.60	57.9 PK	68.2	-10.3	2.90 H	279	55.1	2.8
2	*5755.00	102.0 PK			2.90 H	279	61.1	40.9
3	*5755.00	92.0 AV			2.90 H	279	51.1	40.9
4	#5997.60	58.6 PK	68.2	-9.6	2.90 H	279	54.9	3.7
5	11510.00	56.4 PK	74.0	-17.6	1.31 H	190	46.0	10.4
6	11510.00	45.7 AV	54.0	-8.3	1.31 H	190	35.3	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5638.80	61.0 PK	68.2	-7.2	2.63 V	339	58.2	2.8
2	*5755.00	109.4 PK			2.63 V	339	68.5	40.9
3	*5755.00	100.9 AV			2.63 V	339	60.0	40.9
4	#5952.40	57.9 PK	68.2	-10.3	2.63 V	339	54.5	3.4
5	11510.00	57.0 PK	74.0	-17.0	1.77 V	75	46.6	10.4
6	11510.00	45.9 AV	54.0	-8.1	1.77 V	75	35.5	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5637.20	58.0 PK	68.2	-10.2	2.81 H	290	55.2	2.8
2	*5795.00	103.6 PK			2.81 H	290	62.4	41.2
3	*5795.00	92.6 AV			2.81 H	290	51.4	41.2
4	#5956.80	58.3 PK	68.2	-9.9	2.81 H	290	54.9	3.4
5	11590.00	56.6 PK	74.0	-17.4	1.23 H	202	46.3	10.3
6	11590.00	46.1 AV	54.0	-7.9	1.23 H	202	35.8	10.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.20	58.5 PK	68.2	-9.7	2.91 V	333	55.7	2.8
2	*5795.00	111.0 PK			2.91 V	333	69.8	41.2
3	*5795.00	101.0 AV			2.91 V	333	59.8	41.2
4	#5934.40	61.7 PK	68.2	-6.5	2.91 V	333	58.4	3.3
5	11590.00	57.0 PK	74.0	-17.0	1.63 V	50	46.7	10.3
6	11590.00	47.0 AV	54.0	-7.0	1.63 V	50	36.7	10.3

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.4 PK	74.0	-16.6	2.03 H	266	54.8	2.6
2	5150.00	46.4 AV	54.0	-7.6	2.03 H	266	43.8	2.6
3	*5210.00	95.3 PK			2.03 H	266	55.4	39.9
4	*5210.00	85.1 AV			2.03 H	266	45.2	39.9
5	5350.00	55.0 PK	74.0	-19.0	2.03 H	266	52.8	2.2
6	5350.00	46.0 AV	54.0	-8.0	2.03 H	266	43.8	2.2
7	#10420.00	56.5 PK	68.2	-11.7	1.20 H	199	46.0	10.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.5 PK	74.0	-11.5	2.79 V	229	59.9	2.6
2	5150.00	52.2 AV	54.0	-1.8	2.79 V	229	49.6	2.6
3	*5210.00	105.7 PK			2.79 V	229	65.8	39.9
4	*5210.00	95.6 AV			2.79 V	229	55.7	39.9
5	5350.00	56.7 PK	74.0	-17.3	2.79 V	229	54.5	2.2
6	5350.00	46.4 AV	54.0	-7.6	2.79 V	229	44.2	2.2
7	#10420.00	56.7 PK	68.2	-11.5	1.65 V	42	46.2	10.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	95.7 PK			1.83 H	299	55.8	39.9
2	*5290.00	85.6 AV			1.83 H	299	45.7	39.9
3	5350.00	56.0 PK	74.0	-18.0	1.83 H	299	53.8	2.2
4	5350.00	46.6 AV	54.0	-7.4	1.83 H	299	44.4	2.2
5	#10580.00	55.3 PK	68.2	-12.9	1.19 H	180	44.9	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	107.3 PK			2.50 V	211	67.4	39.9
2	*5290.00	95.2 AV			2.50 V	211	55.3	39.9
3	5350.00	61.9 PK	74.0	-12.1	2.50 V	211	59.7	2.2
4	5350.00	51.3 AV	54.0	-2.7	2.50 V	211	49.1	2.2
5	#10580.00	56.1 PK	68.2	-12.1	1.66 V	59	45.7	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	54.3 PK	74.0	-19.7	1.91 H	290	52.9	1.4
2	5460.00	44.5 AV	54.0	-9.5	1.91 H	290	43.1	1.4
3	#5470.00	56.5 PK	68.2	-11.7	1.91 H	290	55.1	1.4
4	*5530.00	93.6 PK			1.91 H	290	54.1	39.5
5	*5530.00	84.0 AV			1.91 H	290	44.5	39.5
6	#5725.00	56.7 PK	68.2	-11.5	1.91 H	290	55.0	1.7
7	11420.00	56.1 PK	74.0	-17.9	1.23 H	203	45.9	10.2
8	11420.00	44.1 AV	54.0	-9.9	1.23 H	203	33.9	10.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.2 PK	74.0	-13.8	2.61 V	211	58.8	1.4
2	5460.00	50.2 AV	54.0	-3.8	2.61 V	211	48.8	1.4
3	#5470.00	61.2 PK	68.2	-7.0	2.61 V	211	59.8	1.4
4	*5530.00	104.6 PK			2.61 V	211	65.1	39.5
5	*5530.00	92.8 AV			2.61 V	211	53.3	39.5
6	#5725.00	56.3 PK	68.2	-11.9	2.61 V	211	54.6	1.7
7	11060.00	58.3 PK	74.0	-15.7	1.61 V	20	48.0	10.3
8	11060.00	47.3 AV	54.0	-6.7	1.61 V	20	37.0	10.3

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.3 PK	74.0	-17.7	1.99 H	211	54.9	1.4
2	5460.00	45.0 AV	54.0	-9.0	1.99 H	211	43.6	1.4
3	#5470.00	56.9 PK	68.2	-11.3	1.99 H	211	55.5	1.4
4	*5610.00	97.8 PK			1.99 H	211	58.3	39.5
5	*5610.00	86.0 AV			1.99 H	211	46.5	39.5
6	#5725.00	57.0 PK	68.2	-11.2	1.99 H	211	55.3	1.7
7	11220.00	56.9 PK	74.0	-17.1	1.23 H	202	46.4	10.5
8	11220.00	44.9 AV	54.0	-9.1	1.23 H	202	34.4	10.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.3 PK	74.0	-13.7	2.61 V	203	58.9	1.4
2	5460.00	49.0 AV	54.0	-5.0	2.61 V	203	47.6	1.4
3	#5470.00	62.3 PK	68.2	-5.9	2.61 V	203	60.9	1.4
4	*5610.00	106.3 PK			2.61 V	203	66.8	39.5
5	*5610.00	95.8 AV			2.61 V	203	56.3	39.5
6	#5725.00	63.0 PK	68.2	-5.2	2.61 V	203	61.3	1.7
7	11220.00	57.6 PK	74.0	-16.4	1.63 V	50	47.1	10.5
8	11220.00	46.1 AV	54.0	-7.9	1.63 V	50	35.6	10.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.7 PK	68.2	-11.5	2.88 H	282	55.3	1.4
2	*5690.00	101.0 PK			2.88 H	282	61.4	39.6
3	*5690.00	89.0 AV			2.88 H	282	49.4	39.6
4	#5850.00	56.8 PK	68.2	-11.4	2.88 H	282	54.9	1.9
5	11380.00	58.4 PK	74.0	-15.6	1.23 H	101	48.2	10.2
6	11380.00	46.5 AV	54.0	-7.5	1.23 H	101	36.3	10.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	57.7 PK	68.2	-10.5	2.93 V	199	56.3	1.4
2	*5690.00	106.6 PK			2.93 V	199	67.0	39.6
3	*5690.00	95.4 AV			2.93 V	199	55.8	39.6
4	#5850.00	58.8 PK	68.2	-9.4	2.93 V	199	56.9	1.9
5	11380.00	58.8 PK	74.0	-15.2	2.39 V	20	48.6	10.2
6	11380.00	47.2 AV	54.0	-6.8	2.39 V	20	37.0	10.2

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	58.0 PK	68.2	-10.2	2.88 H	293	55.2	2.8
2	#5650.00	60.3 PK	68.2	-7.9	2.88 H	293	57.5	2.8
3	*5775.00	100.5 PK			2.88 H	293	59.4	41.1
4	*5775.00	89.3 AV			2.88 H	293	48.2	41.1
5	#5925.00	58.7 PK	68.2	-9.5	2.88 H	293	55.4	3.3
6	#5991.20	59.2 PK	68.2	-9.0	2.88 H	293	55.6	3.6
7	11550.00	56.1 PK	74.0	-17.9	1.23 H	223	45.8	10.3
8	11550.00	45.8 AV	54.0	-8.2	1.23 H	223	35.5	10.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.80	64.0 PK	68.2	-4.2	2.93 V	311	61.2	2.8
2	#5650.00	60.9 PK	68.2	-7.3	2.93 V	311	58.1	2.8
3	*5775.00	108.0 PK			2.93 V	311	66.9	41.1
4	*5775.00	98.0 AV			2.93 V	311	56.9	41.1
5	#5925.00	63.2 PK	68.2	-5.0	2.93 V	311	59.9	3.3
6	#5934.00	62.3 PK	68.2	-5.9	2.93 V	311	59.0	3.3
7	11550.00	56.7 PK	74.0	-17.3	1.73 V	63	46.4	10.3
8	11550.00	46.1 AV	54.0	-7.9	1.73 V	63	35.8	10.3

Remarks:

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

2TX (High Power)

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.1 PK	74.0	-15.9	2.62 H	325	55.5	2.6
2	5150.00	46.5 AV	54.0	-7.5	2.62 H	325	43.9	2.6
3	*5180.00	107.9 PK			2.62 H	325	67.8	40.1
4	*5180.00	98.3 AV			2.62 H	325	58.2	40.1
5	#10360.00	56.7 PK	68.2	-11.5	1.11 H	150	46.3	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.4 PK	74.0	-12.6	2.20 V	166	58.8	2.6
2	5150.00	50.4 AV	54.0	-3.6	2.20 V	166	47.8	2.6
3	*5180.00	113.9 PK			2.20 V	166	73.8	40.1
4	*5180.00	105.9 AV			2.20 V	166	65.8	40.1
5	#10360.00	58.7 PK	68.2	-9.5	2.19 V	30	48.3	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	108.4 PK			2.65 H	324	68.4	40.0
2	*5200.00	99.6 AV			2.65 H	324	59.6	40.0
3	#10400.00	57.3 PK	68.2	-10.9	1.00 H	155	46.7	10.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	115.2 PK			2.10 V	166	75.2	40.0
2	*5200.00	107.0 AV			2.10 V	166	67.0	40.0
3	#10400.00	60.1 PK	68.2	-8.1	2.23 V	29	49.5	10.6

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.0 PK	74.0	-14.0	2.62 H	327	57.4	2.6
2	5150.00	49.0 AV	54.0	-5.0	2.62 H	327	46.4	2.6
3	*5240.00	110.3 PK			2.62 H	327	70.5	39.8
4	*5240.00	101.9 AV			2.62 H	327	62.1	39.8
5	5350.00	59.2 PK	74.0	-14.8	2.62 H	327	57.0	2.2
6	5350.00	46.6 AV	54.0	-7.4	2.62 H	327	44.4	2.2
7	#10480.00	57.5 PK	68.2	-10.7	1.13 H	152	47.0	10.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.8 PK	74.0	-10.2	2.09 V	180	61.2	2.6
2	5150.00	52.2 AV	54.0	-1.8	2.09 V	180	49.6	2.6
3	*5240.00	116.9 PK			2.09 V	180	77.1	39.8
4	*5240.00	109.2 AV			2.09 V	180	69.4	39.8
5	5350.00	62.8 PK	74.0	-11.2	2.09 V	180	60.6	2.2
6	5350.00	49.7 AV	54.0	-4.3	2.09 V	180	47.5	2.2
7	#10480.00	59.4 PK	68.2	-8.8	2.18 V	28	48.9	10.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.0 PK	74.0	-14.0	2.72 H	326	57.4	2.6
2	5150.00	48.2 AV	54.0	-5.8	2.72 H	326	45.6	2.6
3	*5260.00	110.1 PK			2.72 H	326	70.3	39.8
4	*5260.00	102.1 AV			2.72 H	326	62.3	39.8
5	5350.00	60.5 PK	74.0	-13.5	2.72 H	326	58.3	2.2
6	5350.00	47.7 AV	54.0	-6.3	2.72 H	326	45.5	2.2
7	#10520.00	55.2 PK	68.2	-13.0	1.20 H	163	44.8	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.1 PK	74.0	-10.9	2.22 V	172	60.5	2.6
2	5150.00	51.0 AV	54.0	-3.0	2.22 V	172	48.4	2.6
3	*5260.00	116.8 PK			2.22 V	172	77.0	39.8
4	*5260.00	109.0 AV			2.22 V	172	69.2	39.8
5	5350.00	64.7 PK	74.0	-9.3	2.22 V	172	62.5	2.2
6	5350.00	52.2 AV	54.0	-1.8	2.22 V	172	50.0	2.2
7	#10520.00	56.0 PK	68.2	-12.2	2.19 V	28	45.6	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	109.7 PK			2.69 H	325	69.8	39.9
2	*5300.00	101.6 AV			2.69 H	325	61.7	39.9
3	10600.00	55.2 PK	74.0	-18.8	1.18 H	158	44.8	10.4
4	10600.00	45.4 AV	54.0	-8.6	1.18 H	158	35.0	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	117.4 PK			2.25 V	170	77.5	39.9
2	*5300.00	108.9 AV			2.25 V	170	69.0	39.9
3	10600.00	56.0 PK	74.0	-18.0	2.16 V	31	45.6	10.4
4	10600.00	45.7 AV	54.0	-8.3	2.16 V	31	35.3	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	106.6 PK			2.68 H	326	66.6	40.0
2	*5320.00	99.1 AV			2.68 H	326	59.1	40.0
3	5350.00	59.3 PK	74.0	-14.7	2.68 H	326	57.1	2.2
4	5350.00	47.0 AV	54.0	-7.0	2.68 H	326	44.8	2.2
5	10640.00	55.3 PK	74.0	-18.7	1.13 H	157	44.7	10.6
6	10640.00	45.2 AV	54.0	-8.8	1.13 H	157	34.6	10.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	114.7 PK			2.22 V	166	74.7	40.0
2	*5320.00	106.3 AV			2.22 V	166	66.3	40.0
3	5350.00	62.8 PK	74.0	-11.2	2.22 V	166	60.6	2.2
4	5350.00	51.1 AV	54.0	-2.9	2.22 V	166	48.9	2.2
5	10640.00	55.9 PK	74.0	-18.1	2.17 V	31	45.3	10.6
6	10640.00	45.4 AV	54.0	-8.6	2.17 V	31	34.8	10.6

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.3 PK	74.0	-17.7	2.75 H	5	54.9	1.4
2	5460.00	44.9 AV	54.0	-9.1	2.75 H	5	43.5	1.4
3	#5470.00	56.7 PK	68.2	-11.5	2.75 H	5	55.3	1.4
4	*5500.00	99.5 PK			2.75 H	5	60.0	39.5
5	*5500.00	89.3 AV			2.75 H	5	49.8	39.5
6	11000.00	57.2 PK	74.0	-16.8	1.29 H	144	47.1	10.1
7	11000.00	43.9 AV	54.0	-10.1	1.29 H	144	33.8	10.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.8 PK	74.0	-11.2	2.99 V	162	61.4	1.4
2	5460.00	51.9 AV	54.0	-2.1	2.99 V	162	50.5	1.4
3	#5470.00	63.5 PK	68.2	-4.7	2.99 V	162	62.1	1.4
4	*5500.00	113.3 PK			2.99 V	162	73.8	39.5
5	*5500.00	103.4 AV			2.99 V	162	63.9	39.5
6	11000.00	57.6 PK	74.0	-16.4	1.58 V	39	47.5	10.1
7	11000.00	47.6 AV	54.0	-6.4	1.58 V	39	37.5	10.1

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	103.8 PK			2.80 H	99	63.2	40.6
2	*5580.00	95.9 AV			2.80 H	99	55.3	40.6
3	11160.00	59.2 PK	74.0	-14.8	1.14 H	159	48.6	10.6
4	11160.00	47.5 AV	54.0	-6.5	1.14 H	159	36.9	10.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	117.3 PK			2.45 V	161	76.7	40.6
2	*5580.00	109.3 AV			2.45 V	161	68.7	40.6
3	11160.00	60.7 PK	74.0	-13.3	2.67 V	5	50.1	10.6
4	11160.00	50.1 AV	54.0	-3.9	2.67 V	5	39.5	10.6

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	105.5 PK			2.79 H	290	64.8	40.7
2	*5700.00	97.7 AV			2.79 H	290	57.0	40.7
3	#5725.00	57.4 PK	68.2	-10.8	2.79 H	290	54.6	2.8
4	11400.00	57.9 PK	74.0	-16.1	1.18 H	162	47.6	10.3
5	11400.00	45.9 AV	54.0	-8.1	1.18 H	162	35.6	10.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	114.5 PK			2.58 V	156	73.8	40.7
2	*5700.00	105.3 AV			2.58 V	156	64.6	40.7
3	#5725.00	64.2 PK	68.2	-4.0	2.58 V	156	61.4	2.8
4	11400.00	59.2 PK	74.0	-14.8	2.72 V	10	48.9	10.3
5	11400.00	47.0 AV	54.0	-7.0	2.72 V	10	36.7	10.3

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.2 PK	68.2	-12.0	1.67 H	311	54.8	1.4
2	*5720.00	106.6 PK			1.67 H	311	66.9	39.7
3	*5720.00	99.3 AV			1.67 H	311	59.6	39.7
4	#5850.00	56.4 PK	68.2	-11.8	1.67 H	311	54.5	1.9
5	11440.00	58.6 PK	74.0	-15.4	2.33 H	128	48.4	10.2
6	11440.00	49.0 AV	54.0	-5.0	2.33 H	128	38.8	10.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	58.0 PK	68.2	-10.2	3.07 V	12	56.6	1.4
2	*5720.00	116.2 PK			3.07 V	12	76.5	39.7
3	*5720.00	107.2 AV			3.07 V	12	67.5	39.7
4	#5850.00	60.0 PK	68.2	-8.2	3.07 V	12	58.1	1.9
5	11440.00	60.6 PK	74.0	-13.4	2.40 V	8	50.4	10.2
6	11440.00	51.0 AV	54.0	-3.0	2.40 V	8	40.8	10.2

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5613.60	56.5 PK	68.2	-11.7	2.73 H	283	53.9	2.6
2	*5745.00	109.3 PK			2.73 H	283	68.4	40.9
3	*5745.00	100.2 AV			2.73 H	283	59.3	40.9
4	#5946.00	58.3 PK	68.2	-9.9	2.73 H	283	54.9	3.4
5	11490.00	57.0 PK	74.0	-17.0	1.28 H	159	46.5	10.5
6	11490.00	47.5 AV	54.0	-6.5	1.28 H	159	37.0	10.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.60	56.7 PK	68.2	-11.5	2.99 V	5	53.9	2.8
2	*5745.00	118.6 PK			2.99 V	5	77.7	40.9
3	*5745.00	109.5 AV			2.99 V	5	68.6	40.9
4	#5936.00	61.9 PK	68.2	-6.3	2.99 V	5	58.6	3.3
5	11490.00	57.6 PK	74.0	-16.4	2.11 V	20	47.1	10.5
6	11490.00	47.8 AV	54.0	-6.2	2.11 V	20	37.3	10.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.40	58.4 PK	68.2	-9.8	2.90 H	286	55.6	2.8
2	*5785.00	110.2 PK			2.90 H	286	69.1	41.1
3	*5785.00	100.7 AV			2.90 H	286	59.6	41.1
4	#5933.20	59.6 PK	68.2	-8.6	2.90 H	286	56.3	3.3
5	11570.00	57.3 PK	74.0	-16.7	1.30 H	178	46.9	10.4
6	11570.00	46.9 AV	54.0	-7.1	1.30 H	178	36.5	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5632.00	57.0 PK	68.2	-11.2	3.00 V	8	54.3	2.7
2	*5785.00	119.5 PK			3.00 V	8	78.4	41.1
3	*5785.00	110.8 AV			3.00 V	8	69.7	41.1
4	#5928.00	64.6 PK	68.2	-3.6	3.00 V	8	61.3	3.3
5	11570.00	57.7 PK	74.0	-16.3	2.06 V	22	47.3	10.4
6	11570.00	47.2 AV	54.0	-6.8	2.06 V	22	36.8	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5643.60	58.1 PK	68.2	-10.1	2.83 H	277	55.3	2.8
2	*5825.00	109.4 PK			2.83 H	277	68.2	41.2
3	*5825.00	101.0 AV			2.83 H	277	59.8	41.2
4	#5945.60	60.1 PK	68.2	-8.1	2.83 H	277	56.7	3.4
5	11650.00	56.2 PK	74.0	-17.8	1.27 H	163	46.1	10.1
6	11650.00	46.3 AV	54.0	-7.7	1.27 H	163	36.2	10.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.60	56.9 PK	68.2	-11.3	2.91 V	12	54.1	2.8
2	*5825.00	118.5 PK			2.91 V	12	77.3	41.2
3	*5825.00	110.8 AV			2.91 V	12	69.6	41.2
4	#5947.20	63.2 PK	68.2	-5.0	2.91 V	12	59.8	3.4
5	11650.00	57.7 PK	74.0	-16.3	2.15 V	6	47.6	10.1
6	11650.00	47.3 AV	54.0	-6.7	2.15 V	6	37.2	10.1

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.3 PK	74.0	-14.7	2.53 H	333	56.7	2.6
2	5150.00	47.2 AV	54.0	-6.8	2.53 H	333	44.6	2.6
3	*5180.00	105.1 PK			2.53 H	333	65.0	40.1
4	*5180.00	96.6 AV			2.53 H	333	56.5	40.1
5	#10360.00	56.1 PK	68.2	-12.1	1.19 H	153	45.7	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.3 PK	74.0	-11.7	2.29 V	177	59.7	2.6
2	5150.00	51.0 AV	54.0	-3.0	2.29 V	177	48.4	2.6
3	*5180.00	115.5 PK			2.29 V	177	75.4	40.1
4	*5180.00	104.2 AV			2.29 V	177	64.1	40.1
5	#10360.00	58.1 PK	68.2	-10.1	2.23 V	39	47.7	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	104.3 PK			2.75 H	339	64.3	40.0
2	*5200.00	95.6 AV			2.75 H	339	55.6	40.0
3	#10400.00	57.0 PK	68.2	-11.2	1.18 H	155	46.4	10.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	114.6 PK			2.19 V	182	74.6	40.0
2	*5200.00	104.5 AV			2.19 V	182	64.5	40.0
3	#10400.00	58.3 PK	68.2	-9.9	1.98 V	34	47.7	10.6

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.5 PK	74.0	-14.5	2.66 H	339	56.9	2.6
2	5150.00	48.0 AV	54.0	-6.0	2.66 H	339	45.4	2.6
3	*5240.00	110.0 PK			2.66 H	339	70.2	39.8
4	*5240.00	99.6 AV			2.66 H	339	59.8	39.8
5	5350.00	58.7 PK	74.0	-15.3	2.66 H	339	56.5	2.2
6	5350.00	45.6 AV	54.0	-8.4	2.66 H	339	43.4	2.2
7	#10480.00	57.0 PK	68.2	-11.2	1.19 H	153	46.5	10.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.6 PK	74.0	-12.4	2.39 V	177	21.5	40.1
2	5150.00	51.2 AV	54.0	-2.8	2.39 V	177	11.1	40.1
3	*5240.00	115.8 PK			2.39 V	177	76.0	39.8
4	*5240.00	105.9 AV			2.39 V	177	66.1	39.8
5	5350.00	60.5 PK	74.0	-13.5	2.39 V	177	58.3	2.2
6	5350.00	48.5 AV	54.0	-5.5	2.39 V	177	46.3	2.2
7	#10480.00	59.9 PK	68.2	-8.3	2.23 V	30	49.4	10.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.5 PK	74.0	-17.5	2.63 H	330	16.4	40.1
2	5150.00	45.5 AV	54.0	-8.5	2.63 H	330	5.4	40.1
3	*5260.00	109.6 PK			2.63 H	330	69.8	39.8
4	*5260.00	98.4 AV			2.63 H	330	58.6	39.8
5	5350.00	56.3 PK	74.0	-17.7	2.63 H	330	54.1	2.2
6	5350.00	46.0 AV	54.0	-8.0	2.63 H	330	43.8	2.2
7	#10520.00	56.7 PK	68.2	-11.5	1.27 H	170	46.3	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.3 PK	74.0	-13.7	2.63 V	266	57.7	2.6
2	5150.00	50.1 AV	54.0	-3.9	2.63 V	266	47.5	2.6
3	*5260.00	117.5 PK			2.63 V	266	77.7	39.8
4	*5260.00	106.8 AV			2.63 V	266	67.0	39.8
5	5350.00	62.0 PK	74.0	-12.0	2.63 V	266	59.8	2.2
6	5350.00	51.5 AV	54.0	-2.5	2.63 V	266	49.3	2.2
7	#10520.00	55.4 PK	68.2	-12.8	2.26 V	40	45.0	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	99.2 PK			2.82 H	12	59.3	39.9
2	*5300.00	87.6 AV			2.82 H	12	47.7	39.9
3	5350.00	54.8 PK	74.0	-19.2	2.82 H	12	52.6	2.2
4	5350.00	44.0 AV	54.0	-10.0	2.82 H	12	41.8	2.2
5	10600.00	55.7 PK	74.0	-18.3	1.35 H	164	45.3	10.4
6	10600.00	43.5 AV	54.0	-10.5	1.35 H	164	33.1	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	111.3 PK			3.12 V	177	71.4	39.9
2	*5300.00	101.5 AV			3.12 V	177	61.6	39.9
3	5350.00	59.3 PK	74.0	-14.7	3.12 V	177	57.1	2.2
4	5350.00	49.6 AV	54.0	-4.4	3.12 V	177	47.4	2.2
5	10600.00	57.7 PK	74.0	-16.3	2.28 V	50	47.3	10.4
6	10600.00	47.0 AV	54.0	-7.0	2.28 V	50	36.6	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	103.0 PK			2.74 H	335	63.0	40.0
2	*5320.00	94.2 AV			2.74 H	335	54.2	40.0
3	5350.00	56.4 PK	74.0	-17.6	2.74 H	335	54.2	2.2
4	5350.00	45.8 AV	54.0	-8.2	2.74 H	335	43.6	2.2
5	10640.00	54.5 PK	74.0	-19.5	1.23 H	162	43.9	10.6
6	10640.00	45.0 AV	54.0	-9.0	1.23 H	162	34.4	10.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	113.3 PK			2.63 V	233	73.3	40.0
2	*5320.00	104.0 AV			2.63 V	233	64.0	40.0
3	5350.00	61.6 PK	74.0	-12.4	2.63 V	233	59.4	2.2
4	5350.00	51.0 AV	54.0	-3.0	2.63 V	233	48.8	2.2
5	10640.00	55.9 PK	74.0	-18.1	2.02 V	31	45.3	10.6
6	10640.00	45.0 AV	54.0	-9.0	2.02 V	31	34.4	10.6

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	54.8 PK	74.0	-19.2	2.89 H	12	52.4	2.4
2	5460.00	43.3 AV	54.0	-10.7	2.89 H	12	40.9	2.4
3	#5470.00	54.7 PK	68.2	-13.5	2.89 H	12	52.3	2.4
4	*5500.00	100.2 PK			2.89 H	12	59.7	40.5
5	*5500.00	87.3 AV			2.89 H	12	46.8	40.5
6	11000.00	56.2 PK	74.0	-17.8	1.45 H	163	46.2	10.0
7	11000.00	43.1 AV	54.0	-10.9	1.45 H	163	33.1	10.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.3 PK	74.0	-12.7	3.03 V	177	58.9	2.4
2	5460.00	49.6 AV	54.0	-4.4	3.03 V	177	47.2	2.4
3	#5470.00	61.8 PK	68.2	-6.4	3.03 V	177	59.4	2.4
4	*5500.00	111.9 PK			3.03 V	177	71.4	40.5
5	*5500.00	101.9 AV			3.03 V	177	61.4	40.5
6	11000.00	56.6 PK	74.0	-17.4	2.15 V	54	46.6	10.0
7	11000.00	45.7 AV	54.0	-8.3	2.15 V	54	35.7	10.0

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	101.8 PK			2.99 H	282	61.2	40.6
2	*5580.00	92.0 AV			2.99 H	282	51.4	40.6
3	11160.00	57.7 PK	74.0	-16.3	1.17 H	154	47.1	10.6
4	11160.00	48.0 AV	54.0	-6.0	1.17 H	154	37.4	10.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	116.0 PK			2.63 V	171	75.4	40.6
2	*5580.00	106.8 AV			2.63 V	171	66.2	40.6
3	11160.00	59.3 PK	74.0	-14.7	2.11 V	12	48.7	10.6
4	11160.00	48.0 AV	54.0	-6.0	2.11 V	12	37.4	10.6

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	104.0 PK			3.03 H	293	63.3	40.7
2	*5700.00	95.4 AV			3.03 H	293	54.7	40.7
3	#5725.00	57.2 PK	68.2	-11.0	3.03 H	293	54.4	2.8
4	11400.00	56.9 PK	74.0	-17.1	1.35 H	162	46.6	10.3
5	11400.00	46.0 AV	54.0	-8.0	1.35 H	162	35.7	10.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	112.8 PK			3.30 V	13	72.1	40.7
2	*5700.00	102.7 AV			3.30 V	13	62.0	40.7
3	#5725.00	63.0 PK	68.2	-5.2	3.30 V	13	60.2	2.8
4	11400.00	58.0 PK	74.0	-16.0	2.23 V	11	47.7	10.3
5	11400.00	46.8 AV	54.0	-7.2	2.23 V	11	36.5	10.3

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.0 PK	68.2	-12.2	1.79 H	303	53.6	2.4
2	*5720.00	107.3 PK			1.79 H	303	66.5	40.8
3	*5720.00	96.4 AV			1.79 H	303	55.6	40.8
4	#5850.00	55.0 PK	68.2	-13.2	1.79 H	303	51.9	3.1
5	11440.00	57.4 PK	74.0	-16.6	2.53 H	136	47.1	10.3
6	11440.00	48.0 AV	54.0	-6.0	2.53 H	136	37.7	10.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	55.7 PK	68.2	-12.5	3.11 V	22	53.3	2.4
2	*5720.00	114.9 PK			3.11 V	22	74.1	40.8
3	*5720.00	103.5 AV			3.11 V	22	62.7	40.8
4	#5850.00	58.4 PK	68.2	-9.8	3.11 V	22	55.3	3.1
5	11440.00	58.9 PK	74.0	-15.1	2.39 V	20	48.6	10.3
6	11440.00	48.7 AV	54.0	-5.3	2.39 V	20	38.4	10.3

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5630.80	57.0 PK	68.2	-11.2	2.99 H	282	54.3	2.7
2	*5745.00	107.5 PK			2.99 H	282	66.6	40.9
3	*5745.00	96.9 AV			2.99 H	282	56.0	40.9
4	#5964.80	58.6 PK	68.2	-9.6	2.99 H	282	55.2	3.4
5	11490.00	57.2 PK	74.0	-16.8	1.23 H	182	46.7	10.5
6	11490.00	46.7 AV	54.0	-7.3	1.23 H	182	36.2	10.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.80	59.4 PK	68.2	-8.8	3.00 V	12	56.6	2.8
2	*5745.00	117.7 PK			3.00 V	12	76.8	40.9
3	*5745.00	106.8 AV			3.00 V	12	65.9	40.9
4	#5940.40	60.6 PK	68.2	-7.6	3.00 V	12	57.3	3.3
5	11490.00	57.5 PK	74.0	-16.5	2.01 V	29	47.0	10.5
6	11490.00	46.6 AV	54.0	-7.4	2.01 V	29	36.1	10.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5626.80	57.7 PK	68.2	-10.5	2.97 H	280	55.0	2.7
2	*5785.00	108.5 PK			2.97 H	280	67.4	41.1
3	*5785.00	96.7 AV			2.97 H	280	55.6	41.1
4	#5934.40	58.7 PK	68.2	-9.5	2.97 H	280	55.4	3.3
5	11570.00	56.5 PK	74.0	-17.5	1.33 H	175	46.1	10.4
6	11570.00	46.4 AV	54.0	-7.6	1.33 H	175	36.0	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5617.20	59.0 PK	68.2	-9.2	2.93 V	12	56.4	2.6
2	*5785.00	117.5 PK			2.93 V	12	76.4	41.1
3	*5785.00	108.0 AV			2.93 V	12	66.9	41.1
4	#5945.20	60.3 PK	68.2	-7.9	2.93 V	12	56.9	3.4
5	11570.00	57.2 PK	74.0	-16.8	2.13 V	29	46.8	10.4
6	11570.00	46.5 AV	54.0	-7.5	2.13 V	29	36.1	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5638.40	57.0 PK	68.2	-11.2	2.99 H	282	54.2	2.8
2	*5825.00	108.2 PK			2.99 H	282	67.0	41.2
3	*5825.00	97.5 AV			2.99 H	282	56.3	41.2
4	#5968.00	58.6 PK	68.2	-9.6	2.99 H	282	55.2	3.4
5	11650.00	56.2 PK	74.0	-17.8	1.33 H	170	46.1	10.1
6	11650.00	46.3 AV	54.0	-7.7	1.33 H	170	36.2	10.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.00	58.0 PK	68.2	-10.2	2.92 V	20	55.2	2.8
2	*5825.00	118.2 PK			2.92 V	20	77.0	41.2
3	*5825.00	108.5 AV			2.92 V	20	67.3	41.2
4	#5925.20	62.5 PK	68.2	-5.7	2.92 V	20	59.2	3.3
5	11650.00	57.2 PK	74.0	-16.8	2.23 V	20	47.1	10.1
6	11650.00	46.4 AV	54.0	-7.6	2.23 V	20	36.3	10.1

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.6 PK	74.0	-14.4	2.85 H	321	57.0	2.6
2	5150.00	47.5 AV	54.0	-6.5	2.85 H	321	44.9	2.6
3	*5190.00	104.4 PK			2.82 H	321	64.4	40.0
4	*5190.00	94.5 AV			2.82 H	321	54.5	40.0
5	#10380.00	55.2 PK	68.2	-13.0	1.25 H	153	44.7	10.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.6 PK	74.0	-10.4	2.23 V	169	61.0	2.6
2	5150.00	51.2 AV	54.0	-2.8	2.23 V	169	48.6	2.6
3	*5190.00	110.6 PK			2.23 V	169	70.6	40.0
4	*5190.00	101.0 AV			2.23 V	169	61.0	40.0
5	#10380.00	57.0 PK	68.2	-11.2	2.11 V	42	46.5	10.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.0 PK	74.0	-15.0	2.78 H	337	56.4	2.6
2	5150.00	47.6 AV	54.0	-6.4	2.78 H	337	45.0	2.6
3	*5230.00	105.7 PK			2.78 H	337	65.9	39.8
4	*5230.00	95.8 AV			2.78 H	337	56.0	39.8
5	5350.00	57.6 PK	74.0	-16.4	2.78 H	337	55.4	2.2
6	5350.00	45.2 AV	54.0	-8.8	2.78 H	337	43.0	2.2
7	#10460.00	55.0 PK	68.2	-13.2	1.19 H	163	44.7	10.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.2 PK	74.0	-11.8	2.23 V	177	59.6	2.6
2	5150.00	51.3 AV	54.0	-2.7	2.23 V	177	48.7	2.6
3	*5230.00	114.8 PK			2.23 V	177	75.0	39.8
4	*5230.00	102.7 AV			2.23 V	177	62.9	39.8
5	5350.00	62.0 PK	74.0	-12.0	2.23 V	177	59.8	2.2
6	5350.00	48.2 AV	54.0	-5.8	2.23 V	177	46.0	2.2
7	#10460.00	57.0 PK	68.2	-11.2	2.12 V	30	46.7	10.3

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	55.9 PK	74.0	-18.1	2.45 H	331	53.3	2.6
2	5150.00	44.9 AV	54.0	-9.1	2.45 H	331	42.3	2.6
3	*5270.00	103.0 PK			2.45 H	331	63.1	39.9
4	*5270.00	93.4 AV			2.45 H	331	53.5	39.9
5	5350.00	55.9 PK	74.0	-18.1	2.45 H	331	53.7	2.2
6	5350.00	45.3 AV	54.0	-8.7	2.45 H	331	43.1	2.2
7	#10540.00	54.9 PK	68.2	-13.3	1.16 H	152	44.5	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.6 PK	74.0	-15.4	2.55 V	263	56.0	2.6
2	5150.00	48.0 AV	54.0	-6.0	2.55 V	263	45.4	2.6
3	*5270.00	113.9 PK			2.55 V	263	74.0	39.9
4	*5270.00	104.5 AV			2.55 V	263	64.6	39.9
5	5350.00	61.1 PK	74.0	-12.9	2.55 V	263	58.9	2.2
6	5350.00	51.3 AV	54.0	-2.7	2.55 V	263	49.1	2.2
7	#10540.00	55.5 PK	68.2	-12.7	2.12 V	35	45.1	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	102.0 PK			2.63 H	325	62.0	40.0
2	*5310.00	91.5 AV			2.63 H	325	51.5	40.0
3	5350.00	56.9 PK	74.0	-17.1	2.63 H	325	54.7	2.2
4	5350.00	45.0 AV	54.0	-9.0	2.63 H	325	42.8	2.2
5	10620.00	54.3 PK	74.0	-19.7	1.27 H	152	43.8	10.5
6	10620.00	43.8 AV	54.0	-10.2	1.27 H	152	33.3	10.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	110.7 PK			2.63 V	233	70.7	40.0
2	*5310.00	100.5 AV			2.63 V	233	60.5	40.0
3	5350.00	61.0 PK	74.0	-13.0	2.63 V	233	58.8	2.2
4	5350.00	51.3 AV	54.0	-2.7	2.63 V	233	49.1	2.2
5	10620.00	54.6 PK	74.0	-19.4	2.18 V	31	44.1	10.5
6	10620.00	44.3 AV	54.0	-9.7	2.18 V	31	33.8	10.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.0 PK	74.0	-19.0	2.88 H	351	52.6	2.4
2	5460.00	44.0 AV	54.0	-10.0	2.88 H	351	41.6	2.4
3	#5470.00	55.9 PK	68.2	-12.3	2.88 H	351	53.5	2.4
4	*5510.00	99.8 PK			2.88 H	351	59.3	40.5
5	*5510.00	88.3 AV			2.88 H	351	47.8	40.5
6	11020.00	55.7 PK	74.0	-18.3	1.23 H	160	45.6	10.1
7	11020.00	43.0 AV	54.0	-11.0	1.23 H	160	32.9	10.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.3 PK	74.0	-12.7	3.11 V	175	58.9	2.4
2	5460.00	51.6 AV	54.0	-2.4	3.11 V	175	49.2	2.4
3	#5470.00	62.8 PK	68.2	-5.4	3.11 V	175	60.4	2.4
4	*5510.00	110.3 PK			3.11 V	175	69.8	40.5
5	*5510.00	101.0 AV			3.11 V	175	60.5	40.5
6	11020.00	56.0 PK	74.0	-18.0	2.15 V	45	45.9	10.1
7	11020.00	46.2 AV	54.0	-7.8	2.15 V	45	36.1	10.1

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.2 PK	74.0	-17.8	2.72 H	334	53.8	2.4
2	5460.00	44.7 AV	54.0	-9.3	2.72 H	334	42.3	2.4
3	#5470.00	56.6 PK	68.2	-11.6	2.72 H	334	54.2	2.4
4	*5550.00	100.2 PK			2.72 H	334	59.6	40.6
5	*5550.00	89.1 AV			2.72 H	334	48.5	40.6
6	11100.00	56.5 PK	74.0	-17.5	1.32 H	184	46.1	10.4
7	11100.00	46.6 AV	54.0	-7.4	1.32 H	184	36.2	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.2 PK	74.0	-12.8	2.68 V	165	58.8	2.4
2	5460.00	51.1 AV	54.0	-2.9	2.68 V	165	48.7	2.4
3	#5470.00	63.9 PK	68.2	-4.3	2.68 V	165	61.5	2.4
4	*5550.00	112.9 PK			2.68 V	165	72.3	40.6
5	*5550.00	103.0 AV			2.68 V	165	62.4	40.6
6	11100.00	58.3 PK	74.0	-15.7	2.83 V	11	47.9	10.4
7	11100.00	46.7 AV	54.0	-7.3	2.83 V	11	36.3	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	102.2 PK			2.86 H	278	61.4	40.8
2	*5670.00	91.6 AV			2.86 H	278	50.8	40.8
3	#5725.00	58.1 PK	68.2	-10.1	2.86 H	278	55.3	2.8
4	11340.00	56.2 PK	74.0	-17.8	1.34 H	158	45.9	10.3
5	11340.00	46.1 AV	54.0	-7.9	1.34 H	158	35.8	10.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	111.2 PK			2.53 V	142	70.4	40.8
2	*5670.00	99.3 AV			2.53 V	142	58.5	40.8
3	#5725.00	63.9 PK	68.2	-4.3	2.53 V	142	61.1	2.8
4	11340.00	57.2 PK	74.0	-16.8	2.17 V	15	46.9	10.3
5	11340.00	46.5 AV	54.0	-7.5	2.17 V	15	36.2	10.3

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	55.7 PK	68.2	-12.5	1.57 H	303	53.3	2.4
2	*5710.00	103.7 PK			1.57 H	303	62.9	40.8
3	*5710.00	96.4 AV			1.57 H	303	55.6	40.8
4	#5850.00	56.1 PK	68.2	-12.1	1.57 H	303	53.0	3.1
5	11420.00	57.2 PK	74.0	-16.8	2.42 H	118	46.9	10.3
6	11420.00	47.1 AV	54.0	-6.9	2.42 H	118	36.8	10.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.2 PK	68.2	-12.0	3.34 V	19	53.8	2.4
2	*5710.00	111.8 PK			3.34 V	19	71.0	40.8
3	*5710.00	102.2 AV			3.34 V	19	61.4	40.8
4	#5850.00	57.9 PK	68.2	-10.3	3.34 V	19	54.8	3.1
5	11420.00	58.2 PK	74.0	-15.8	2.35 V	34	47.9	10.3
6	11420.00	48.3 AV	54.0	-5.7	2.35 V	34	38.0	10.3

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5629.20	57.6 PK	68.2	-10.6	3.03 H	282	54.9	2.7
2	*5755.00	104.0 PK			3.03 H	282	63.1	40.9
3	*5755.00	93.4 AV			3.03 H	282	52.5	40.9
4	#5996.80	58.0 PK	68.2	-10.2	3.03 H	282	54.3	3.7
5	11510.00	56.1 PK	74.0	-17.9	1.39 H	182	45.7	10.4
6	11510.00	46.2 AV	54.0	-7.8	1.39 H	182	35.8	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5633.60	58.8 PK	68.2	-9.4	2.87 V	359	56.1	2.7
2	*5755.00	114.2 PK			2.87 V	359	73.3	40.9
3	*5755.00	102.7 AV			2.87 V	359	61.8	40.9
4	#5943.60	60.8 PK	68.2	-7.4	2.87 V	359	57.5	3.3
5	11510.00	56.6 PK	74.0	-17.4	2.13 V	23	46.2	10.4
6	11510.00	46.6 AV	54.0	-7.4	2.13 V	23	36.2	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5634.00	58.0 PK	68.2	-10.2	2.88 H	291	55.3	2.7
2	*5795.00	108.8 PK			2.88 H	291	67.6	41.2
3	*5795.00	94.2 AV			2.88 H	291	53.0	41.2
4	#5945.20	58.8 PK	68.2	-9.4	2.88 H	291	55.4	3.4
5	11590.00	56.0 PK	74.0	-18.0	1.42 H	152	45.7	10.3
6	11590.00	46.1 AV	54.0	-7.9	1.42 H	152	35.8	10.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5623.20	58.7 PK	68.2	-9.5	2.97 V	2	56.1	2.6
2	*5795.00	115.5 PK			2.97 V	2	74.3	41.2
3	*5795.00	103.6 AV			2.97 V	2	62.4	41.2
4	#5949.20	61.3 PK	68.2	-6.9	2.97 V	2	57.9	3.4
5	11590.00	56.3 PK	74.0	-17.7	1.93 V	20	46.0	10.3
6	11590.00	46.3 AV	54.0	-7.7	1.93 V	20	36.0	10.3

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.2 PK	74.0	-15.8	2.71 H	332	55.6	2.6
2	5150.00	46.6 AV	54.0	-7.4	2.71 H	332	44.0	2.6
3	*5210.00	95.9 PK			2.71 H	332	56.0	39.9
4	*5210.00	86.5 AV			2.71 H	332	46.6	39.9
5	5350.00	56.5 PK	74.0	-17.5	2.71 H	332	54.3	2.2
6	5350.00	45.2 AV	54.0	-8.8	2.71 H	332	43.0	2.2
7	#10420.00	54.2 PK	68.2	-14.0	1.23 H	163	43.7	10.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.6 PK	74.0	-11.4	2.19 V	182	60.0	2.6
2	5150.00	51.0 AV	54.0	-3.0	2.19 V	182	48.4	2.6
3	*5210.00	105.6 PK			2.19 V	182	65.7	39.9
4	*5210.00	95.5 AV			2.19 V	182	55.6	39.9
5	5350.00	60.0 PK	74.0	-14.0	2.19 V	182	57.8	2.2
6	5350.00	45.7 AV	54.0	-8.3	2.19 V	182	43.5	2.2
7	#10420.00	56.2 PK	68.2	-12.0	2.11 V	31	45.7	10.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	55.3 PK	74.0	-18.7	3.03 H	334	52.7	2.6
2	5150.00	43.0 AV	54.0	-11.0	3.03 H	334	40.4	2.6
3	*5290.00	90.6 PK			3.03 H	334	50.7	39.9
4	*5290.00	81.6 AV			3.03 H	334	41.7	39.9
5	5350.00	56.3 PK	74.0	-17.7	3.03 H	334	54.1	2.2
6	5350.00	43.6 AV	54.0	-10.4	3.03 H	334	41.4	2.2
7	#10580.00	56.2 PK	68.2	-12.0	1.27 H	154	45.8	10.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.0 PK	74.0	-18.0	2.82 V	175	53.4	2.6
2	5150.00	45.0 AV	54.0	-9.0	2.82 V	175	42.4	2.6
3	*5290.00	105.7 PK			2.82 V	175	65.8	39.9
4	*5290.00	95.2 AV			2.82 V	175	55.3	39.9
5	5350.00	61.2 PK	74.0	-12.8	2.82 V	175	59.0	2.2
6	5350.00	51.4 AV	54.0	-2.6	2.82 V	175	49.2	2.2
7	#10580.00	57.6 PK	68.2	-10.6	2.11 V	25	47.2	10.4

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.3 PK	74.0	-17.7	2.89 H	267	53.9	2.4
2	5460.00	47.2 AV	54.0	-6.8	2.89 H	267	44.8	2.4
3	#5470.00	59.7 PK	68.2	-8.5	2.89 H	267	57.3	2.4
4	*5530.00	94.8 PK			2.89 H	267	54.2	40.6
5	*5530.00	83.8 AV			2.89 H	267	43.2	40.6
6	#5725.00	56.9 PK	68.2	-11.3	2.89 H	267	54.1	2.8
7	11060.00	56.6 PK	74.0	-17.4	1.23 H	184	46.3	10.3
8	11060.00	44.7 AV	54.0	-9.3	1.23 H	184	34.4	10.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.6 PK	74.0	-11.4	2.79 V	143	60.2	2.4
2	5460.00	51.4 AV	54.0	-2.6	2.79 V	143	49.0	2.4
3	#5470.00	63.2 PK	68.2	-5.0	2.79 V	143	60.8	2.4
4	*5530.00	103.6 PK			2.79 V	143	63.0	40.6
5	*5530.00	94.6 AV			2.79 V	143	54.0	40.6
6	#5725.00	60.7 PK	68.2	-7.5	2.79 V	143	57.9	2.8
7	11060.00	57.4 PK	74.0	-16.6	2.28 V	18	47.1	10.3
8	11060.00	46.6 AV	54.0	-7.4	2.28 V	18	36.3	10.3

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.8 PK	74.0	-17.2	3.18 H	279	54.4	2.4
2	5460.00	45.3 AV	54.0	-8.7	3.18 H	279	42.9	2.4
3	#5470.00	57.1 PK	68.2	-11.1	3.18 H	279	54.7	2.4
4	*5610.00	95.2 PK			3.18 H	279	54.6	40.6
5	*5610.00	83.7 AV			3.18 H	279	43.1	40.6
6	#5725.00	57.1 PK	68.2	-11.1	3.18 H	279	54.3	2.8
7	11220.00	57.4 PK	74.0	-16.6	1.39 H	164	46.9	10.5
8	11220.00	46.8 AV	54.0	-7.2	1.39 H	164	36.3	10.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.2 PK	74.0	-13.8	2.62 V	146	57.8	2.4
2	5460.00	49.9 AV	54.0	-4.1	2.62 V	146	47.5	2.4
3	#5470.00	62.4 PK	68.2	-5.8	2.62 V	146	60.0	2.4
4	*5610.00	107.1 PK			2.62 V	146	66.5	40.6
5	*5610.00	98.0 AV			2.62 V	146	57.4	40.6
6	#5725.00	59.7 PK	68.2	-8.5	2.62 V	146	56.9	2.8
7	11220.00	58.1 PK	74.0	-15.9	2.73 V	14	47.6	10.5
8	11220.00	47.6 AV	54.0	-6.4	2.73 V	14	37.1	10.5

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	55.8 PK	68.2	-12.4	1.72 H	315	53.4	2.4
2	*5690.00	101.9 PK			1.72 H	315	61.2	40.7
3	*5690.00	92.5 AV			1.72 H	315	51.8	40.7
4	#5850.00	55.7 PK	68.2	-12.5	1.72 H	315	52.6	3.1
5	11380.00	57.2 PK	74.0	-16.8	2.53 H	161	46.9	10.3
6	11380.00	47.8 AV	54.0	-6.2	2.53 H	161	37.5	10.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	55.8 PK	68.2	-12.4	1.57 V	302	53.4	2.4
2	*5690.00	101.9 PK			1.57 V	302	61.2	40.7
3	*5690.00	92.6 AV			1.57 V	302	51.9	40.7
4	#5850.00	55.7 PK	68.2	-12.5	1.57 V	302	52.6	3.1
5	11380.00	57.1 PK	74.0	-16.9	2.57 V	163	46.8	10.3
6	11380.00	47.7 AV	54.0	-6.3	2.57 V	163	37.4	10.3

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.80	57.8 PK	68.2	-10.4	2.81 H	290	55.0	2.8
2	#5650.00	58.1 PK	68.2	-10.1	2.81 H	290	55.3	2.8
3	*5775.00	99.7 PK			2.81 H	290	58.6	41.1
4	*5775.00	91.1 AV			2.81 H	290	50.0	41.1
5	#5925.00	57.5 PK	68.2	-10.7	2.81 H	290	54.2	3.3
6	#5929.20	58.6 PK	68.2	-9.6	2.81 H	290	55.3	3.3
7	11550.00	56.1 PK	74.0	-17.9	1.42 H	170	45.8	10.3
8	11550.00	46.0 AV	54.0	-8.0	1.42 H	170	35.7	10.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.00	58.8 PK	68.2	-9.4	3.03 V	12	56.0	2.8
2	#5650.00	59.7 PK	68.2	-8.5	3.03 V	12	56.9	2.8
3	*5775.00	110.1 PK			3.03 V	12	69.0	41.1
4	*5775.00	100.8 AV			3.03 V	12	59.7	41.1
5	#5925.00	61.3 PK	68.2	-6.9	3.03 V	12	58.0	3.3
6	#5925.20	63.5 PK	68.2	-4.7	3.03 V	12	60.2	3.3
7	11550.00	56.3 PK	74.0	-17.7	2.11 V	23	46.0	10.3
8	11550.00	46.2 AV	54.0	-7.8	2.11 V	23	35.9	10.3

Remarks:

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

Below 1GHz Worst-Case Data:

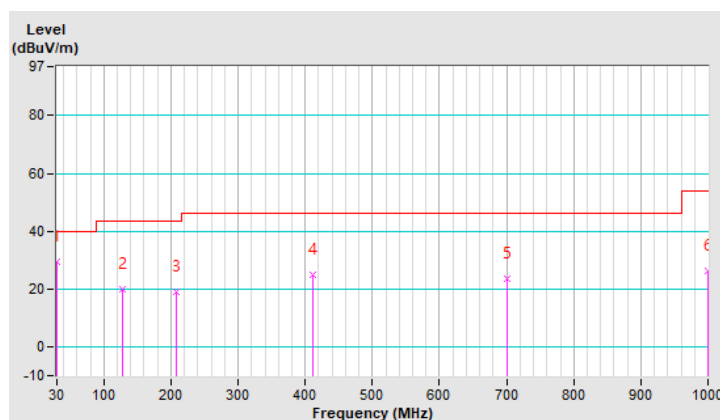
2TX (High Power)

RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	A		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.91	29.6 QP	40.0	-10.4	1.50 H	0	49.3	-19.7
2	128.00	19.8 QP	43.5	-23.7	1.00 H	75	39.6	-19.8
3	207.51	19.0 QP	43.5	-24.5	1.00 H	40	40.7	-21.7
4	411.21	25.0 QP	46.0	-21.0	1.00 H	345	40.2	-15.2
5	700.27	23.6 QP	46.0	-22.4	1.50 H	87	32.9	-9.3
6	1000.00	26.1 QP	54.0	-27.9	1.00 H	45	31.1	-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.

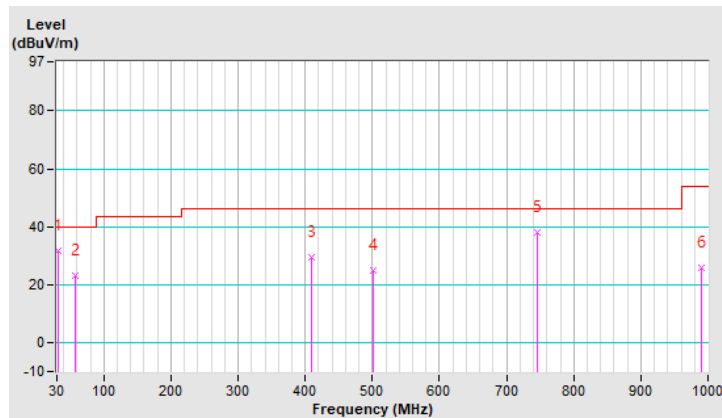


RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	A		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.91	31.7 QP	40.0	-8.3	1.00 V	183	51.3	-19.6
2	57.16	23.0 QP	40.0	-17.0	1.25 V	205	41.8	-18.8
3	410.24	29.6 QP	46.0	-16.4	2.00 V	94	44.8	-15.2
4	500.45	25.0 QP	46.0	-21.0	1.00 V	108	38.2	-13.2
5	745.86	38.2 QP	46.0	-7.8	1.00 V	5	46.6	-8.4
6	989.33	26.0 QP	54.0	-28.0	1.50 V	73	31.2	-5.2

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.

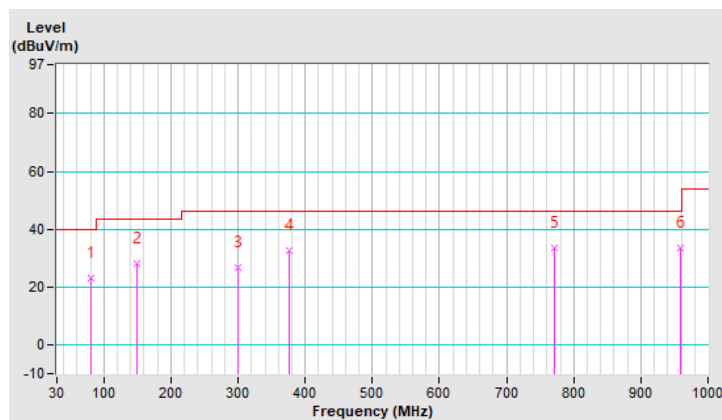


RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	B		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	80.44	23.1 QP	40.0	-16.9	1.25 H	3	46.2	-23.1
2	148.34	27.9 QP	43.5	-15.6	1.25 H	211	46.2	-18.3
3	300.63	26.7 QP	46.0	-19.3	1.00 H	261	44.4	-17.7
4	375.32	32.8 QP	46.0	-13.2	1.50 H	118	48.6	-15.8
5	772.05	33.4 QP	46.0	-12.6	1.00 H	175	41.5	-8.1
6	958.29	33.3 QP	46.0	-12.7	1.25 H	45	38.9	-5.6

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 of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
5. The emission levels were very low against the limit of frequency range 9kHz ~ 30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

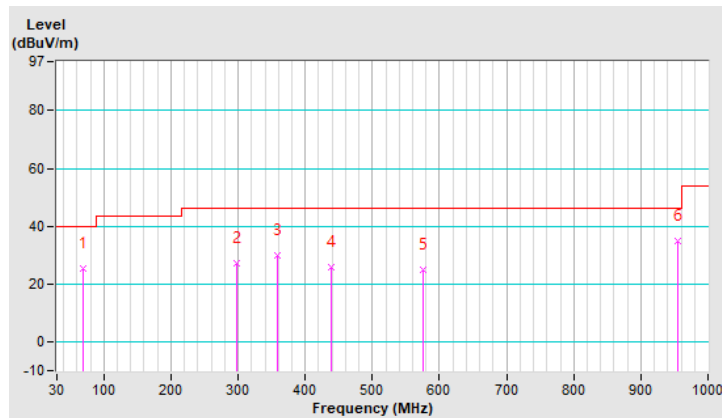


RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)
Test Mode	B		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	68.80	25.2 QP	40.0	-14.8	1.00 V	287	45.4	-20.2
2	298.69	27.0 QP	46.0	-19.0	1.25 V	159	44.8	-17.8
3	358.83	29.7 QP	46.0	-16.3	1.25 V	162	46.1	-16.4
4	438.37	25.6 QP	46.0	-20.4	1.00 V	167	39.6	-14.0
5	575.14	24.8 QP	46.0	-21.2	1.50 V	162	36.1	-11.3
6	954.41	34.9 QP	46.0	-11.1	1.00 V	332	40.7	-5.8

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.



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

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

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

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 04, 2020	Dec. 03, 2021
			Dec. 03, 2021	Dec. 02, 2022
RF signal cable Woken	5D-FB	Cable-cond1-01	Jan. 16, 2021	Jan. 15, 2022
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 25, 2021	Feb. 24, 2022
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Sep. 07, 2021	Sep. 06, 2022
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

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

2. The test was performed in HwaYa Shielded Room 1 (Conduction 1).

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

4. Test Date: Nov. 03, 2021 ~ Jan. 04, 2022

4.2.3 Test Procedures

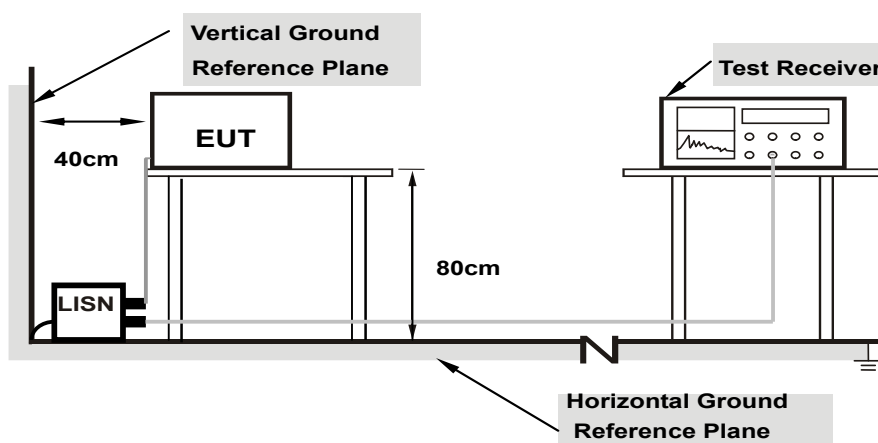
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

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

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



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

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

4.2.6 EUT Operating Conditions

Same as 4.1.6.

4.2.7 Test Results

Worst-case data:

2TX (High Power)

802.11a

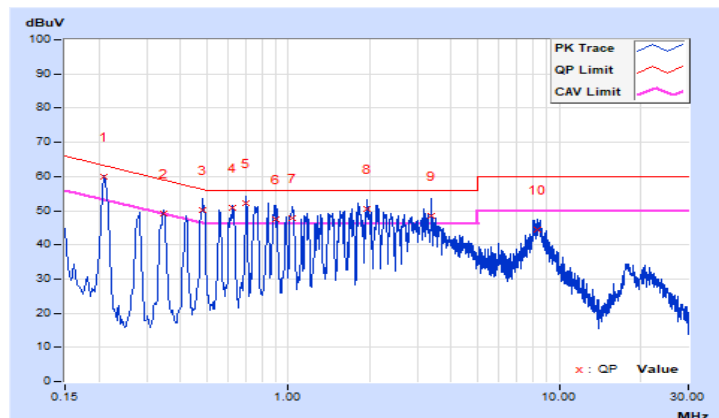
TX / RX Mode

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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
*1	0.20865	9.71	50.15	46.99	59.86	56.70	63.26	53.26	-3.40	3.44
2	0.34550	9.72	39.29	34.12	49.01	43.84	59.07	49.07	-10.06	-5.23
*3	0.48235	9.73	40.38	34.61	50.11	44.34	56.30	46.30	-6.19	-1.96
*4	0.62311	9.74	41.22	35.28	50.96	45.02	56.00	46.00	-5.04	-0.98
*5	0.70131	9.75	42.34	37.14	52.09	46.89	56.00	46.00	-3.91	0.89
6	0.90463	9.76	37.73	30.74	47.49	40.50	56.00	46.00	-8.51	-5.50
7	1.02975	9.76	37.91	28.00	47.67	37.76	56.00	46.00	-8.33	-8.24
*8	1.96033	9.77	40.72	34.62	50.49	44.39	56.00	46.00	-5.51	-1.61
*9	3.36402	9.78	38.78	33.18	48.56	42.96	56.00	46.00	-7.44	-3.04
10	8.27889	9.84	34.57	24.86	44.41	34.70	60.00	50.00	-15.59	-15.30

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.
- * Conducted emissions were evaluated with RF module off to determine whether failing results were originating from the RF module (See RF module off Mode data). After verification, frequencies denoted by the * which include emissions that are failing or not meeting 4dB margin have been identified as coming from unintentional emission signal brought out by the power supply. All unintentional emissions are addressed in the test report no. FDBCYK-WTW-P21070588.

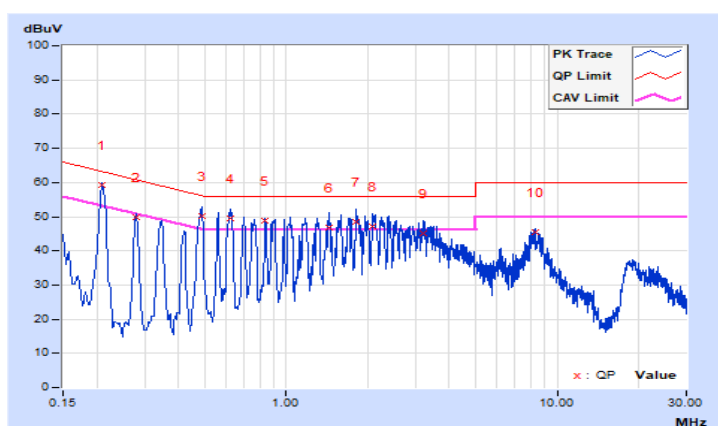


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

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	0.20865	9.77	49.45	47.01	59.22	56.78	63.26	53.26	-4.04	3.52
2	0.27903	9.78	40.02	34.58	49.80	44.36	60.84	50.84	-11.04	-6.48
*3	0.48626	9.79	40.48	35.16	50.27	44.95	56.23	46.23	-5.96	-1.28
*4	0.61920	9.80	39.79	33.13	49.59	42.93	56.00	46.00	-6.41	-3.07
*5	0.83816	9.81	39.12	33.49	48.93	43.30	56.00	46.00	-7.07	-2.70
6	1.43639	9.82	37.03	26.31	46.85	36.13	56.00	46.00	-9.15	-9.87
*7	1.81957	9.83	38.57	31.28	48.40	41.11	56.00	46.00	-7.60	-4.89
8	2.09327	9.83	37.23	29.38	47.06	39.21	56.00	46.00	-8.94	-6.79
9	3.22326	9.84	35.29	29.08	45.13	38.92	56.00	46.00	-10.87	-7.08
10	8.27107	9.91	35.43	26.65	45.34	36.56	60.00	50.00	-14.66	-13.44

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.
- * Conducted emissions were evaluated with RF module off to determine whether failing results were originating from the RF module (See RF module off Mode data). After verification, frequencies denoted by the * which include emissions that are failing or not meeting 4dB margin have been identified as coming from unintentional emission signal brought out by the power supply. All unintentional emissions are addressed in the test report no. FDBCYK-WTW-P21070588.

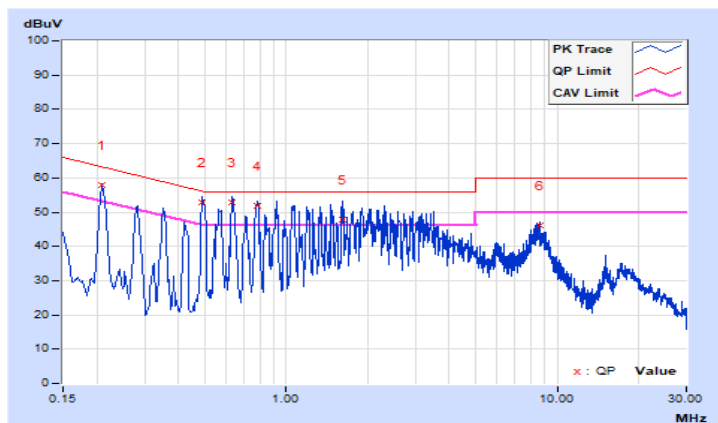


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
	[MHz]		[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
*1	0.21000	9.71	48.32	46.68	58.03	56.39	63.21	53.21	-5.18	3.18
*2	0.49000	9.73	43.17	37.73	52.90	47.46	56.17	46.17	-3.27	1.29
*3	0.63000	9.74	43.14	37.36	52.88	47.10	56.00	46.00	-3.12	1.10
*4	0.78200	9.75	42.04	35.63	51.79	45.38	56.00	46.00	-4.21	-0.62
5	1.61800	9.77	38.01	28.99	47.78	38.76	56.00	46.00	-8.22	-7.24
6	8.59000	9.84	36.37	27.98	46.21	37.82	60.00	50.00	-13.79	-12.18

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.
- * Conducted emissions were evaluated with RF module off to determine whether failing results were originating from the RF module (See RF module off Mode data). After verification, frequencies denoted by the * which include emissions that are failing or not meeting 4dB margin have been identified as coming from unintentional emission signal brought out by the power supply. All unintentional emissions are addressed in the test report no. FDBCYK-WTW-P21070588.

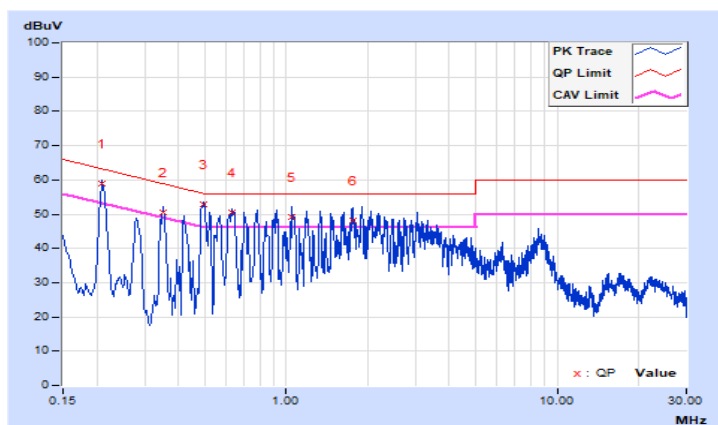


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

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	0.21000	9.77	49.11	46.59	58.88	56.36	63.21	53.21	-4.33	3.15
*2	0.35000	9.78	40.73	35.98	50.51	45.76	58.96	48.96	-8.45	-3.20
*3	0.49737	9.79	43.16	37.99	52.95	47.78	56.04	46.04	-3.09	1.74
*4	0.63046	9.80	40.65	36.94	50.45	46.74	56.00	46.00	-5.55	0.74
*5	1.04600	9.82	39.43	32.21	49.25	42.03	56.00	46.00	-6.75	-3.97
6	1.75400	9.83	38.22	29.34	48.05	39.17	56.00	46.00	-7.95	-6.83

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.
- * Conducted emissions were evaluated with RF module off to determine whether failing results were originating from the RF module (See RF module off Mode data). After verification, frequencies denoted by the * which include emissions that are failing or not meeting 4dB margin have been identified as coming from unintentional emission signal brought out by the power supply. All unintentional emissions are addressed in the test report no. FDBCYK-WTW-P21070588.



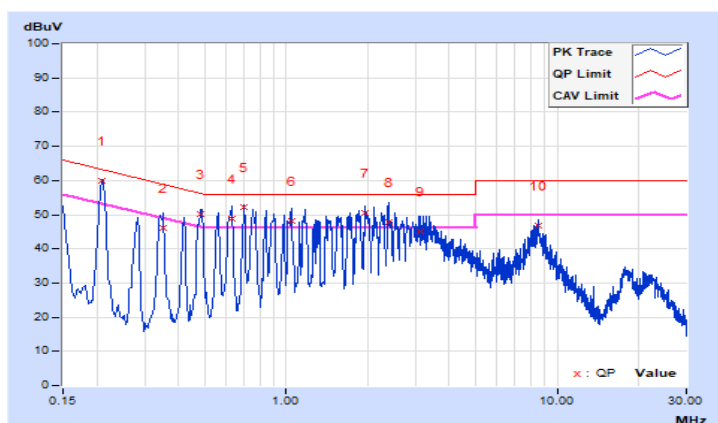
Normal Link Mode

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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
*1	0.20865	9.71	50.20	47.04	59.91	56.75	63.26	53.26	-3.35	3.49
2	0.35332	9.73	36.42	30.07	46.15	39.80	58.88	48.88	-12.73	-9.08
*3	0.48295	9.73	40.45	34.72	50.18	44.45	56.29	46.29	-6.11	-1.84
*4	0.62702	9.74	39.08	34.27	48.82	44.01	56.00	46.00	-7.18	-1.99
*5	0.70131	9.75	42.31	37.22	52.06	46.97	56.00	46.00	-3.94	0.97
*6	1.04930	9.76	38.22	32.38	47.98	42.14	56.00	46.00	-8.02	-3.86
*7	1.96033	9.77	40.75	34.55	50.52	44.32	56.00	46.00	-5.48	-1.68
*8	2.37870	9.77	37.96	32.00	47.73	41.77	56.00	46.00	-8.27	-4.23
9	3.11769	9.78	35.38	26.99	45.16	36.77	56.00	46.00	-10.84	-9.23
10	8.47830	9.84	37.12	28.37	46.96	38.21	60.00	50.00	-13.04	-11.79

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.
- * Conducted emissions were evaluated with RF module off to determine whether failing results were originating from the RF module (See RF module off Mode data). After verification, frequencies denoted by the * which include emissions that are failing or not meeting 4dB margin have been identified as coming from unintentional emission signal brought out by the power supply. All unintentional emissions are addressed in the test report no. FDBCYK-WTW-P21070588.

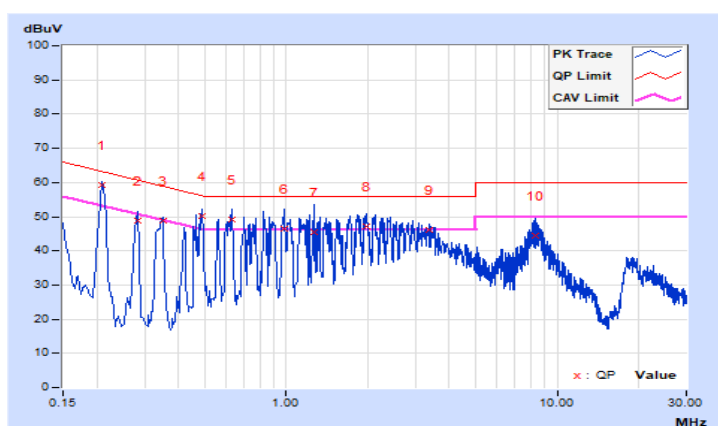


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

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	0.20865	9.77	49.37	46.94	59.14	56.71	63.26	53.26	-4.12	3.45
2	0.28288	9.78	38.88	32.57	48.66	42.35	60.73	50.73	-12.07	-8.38
3	0.34926	9.78	39.01	32.65	48.79	42.43	58.98	48.98	-10.19	-6.55
*4	0.48626	9.79	40.34	35.00	50.13	44.79	56.23	46.23	-6.10	-1.44
*5	0.62702	9.80	39.22	34.24	49.02	44.04	56.00	46.00	-6.98	-1.96
*6	0.97892	9.82	36.75	32.13	46.57	41.95	56.00	46.00	-9.43	-4.05
7	1.26044	9.82	35.80	28.89	45.62	38.71	56.00	46.00	-10.38	-7.29
8	1.97988	9.83	37.31	26.51	47.14	36.34	56.00	46.00	-8.86	-9.66
9	3.36402	9.84	36.43	30.57	46.27	40.41	56.00	46.00	-9.73	-5.59
10	8.33754	9.91	34.47	27.01	44.38	36.92	60.00	50.00	-15.62	-13.08

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.
- * Conducted emissions were evaluated with RF module off to determine whether failing results were originating from the RF module (See RF module off Mode data). After verification, frequencies denoted by the * which include emissions that are failing or not meeting 4dB margin have been identified as coming from unintentional emission signal brought out by the power supply. All unintentional emissions are addressed in the test report no. FDBCYK-WTW-P21070588.

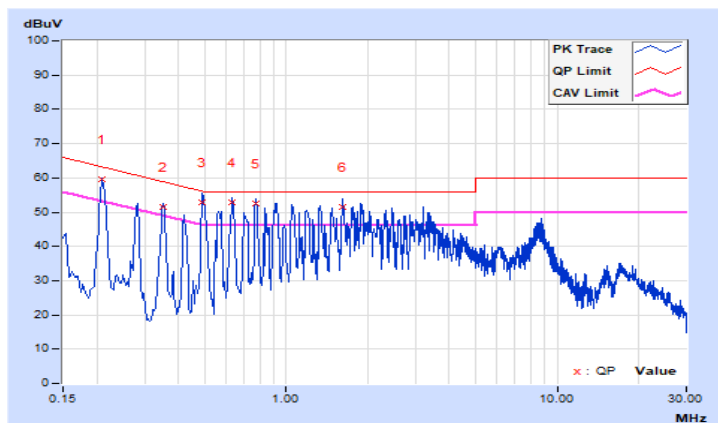


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
	[MHz]		[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
*1	0.21000	9.71	49.77	46.64	59.48	56.35	63.21	53.21	-3.73	3.14
*2	0.35000	9.73	41.90	36.91	51.63	46.64	58.96	48.96	-7.33	-2.32
*3	0.49000	9.73	43.22	37.51	52.95	47.24	56.17	46.17	-3.22	1.07
*4	0.63000	9.74	43.07	37.23	52.81	46.97	56.00	46.00	-3.19	0.97
*5	0.77000	9.75	42.65	37.71	52.40	47.46	56.00	46.00	-3.60	1.46
*6	1.60600	9.77	41.89	33.60	51.66	43.37	56.00	46.00	-4.34	-2.63

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.
- * Conducted emissions were evaluated with RF module off to determine whether failing results were originating from the RF module (See RF module off Mode data). After verification, frequencies denoted by the * which include emissions that are failing or not meeting 4dB margin have been identified as coming from unintentional emission signal brought out by the power supply. All unintentional emissions are addressed in the test report no. FDBCYK-WTW-P21070588.

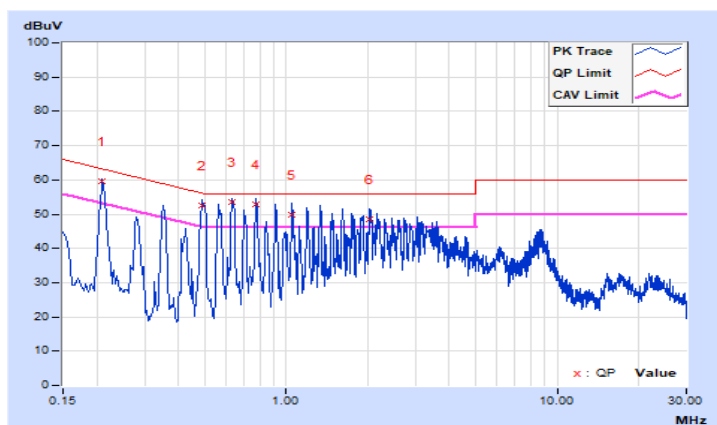


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

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	0.21000	9.77	49.66	46.94	59.43	56.71	63.21	53.21	-3.78	3.50
*2	0.48957	9.79	42.65	36.79	52.44	46.58	56.18	46.18	-3.74	0.40
*3	0.63000	9.80	43.77	38.77	53.57	48.57	56.00	46.00	-2.43	2.57
*4	0.77000	9.81	43.17	37.00	52.98	46.81	56.00	46.00	-3.02	0.81
*5	1.05000	9.82	39.92	32.60	49.74	42.42	56.00	46.00	-6.26	-3.58
*6	2.03000	9.83	38.80	30.59	48.63	40.42	56.00	46.00	-7.37	-5.58

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.
- * Conducted emissions were evaluated with RF module off to determine whether failing results were originating from the RF module (See RF module off Mode data). After verification, frequencies denoted by the * which include emissions that are failing or not meeting 4dB margin have been identified as coming from unintentional emission signal brought out by the power supply. All unintentional emissions are addressed in the test report no. FDBCYK-WTW-P21070588.



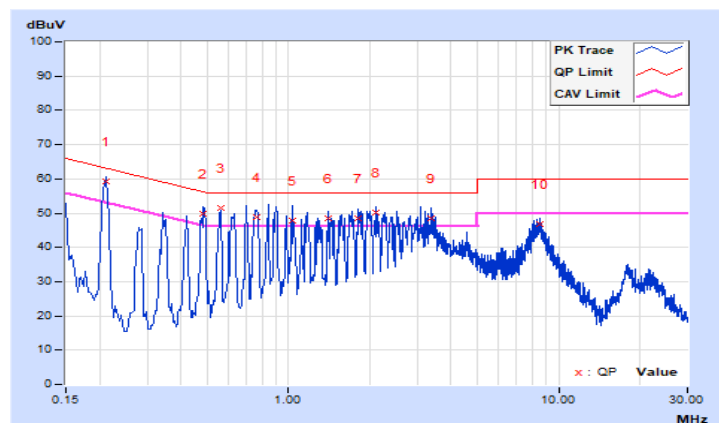
RF Module off Mode

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

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
*1	0.21226	9.71	49.57	46.49	59.28	56.20	63.12	53.12	-3.84	3.08
*2	0.48235	9.73	40.07	34.35	49.80	44.08	56.30	46.30	-6.50	-2.22
*3	0.56055	9.74	41.84	36.65	51.58	46.39	56.00	46.00	-4.42	0.39
*4	0.75996	9.75	39.18	32.08	48.93	41.83	56.00	46.00	-7.07	-4.17
5	1.02975	9.76	38.02	28.09	47.78	37.85	56.00	46.00	-8.22	-8.15
6	1.40120	9.76	38.76	31.03	48.52	40.79	56.00	46.00	-7.48	-5.21
*7	1.81957	9.77	38.67	33.30	48.44	43.07	56.00	46.00	-7.56	-2.93
*8	2.10103	9.77	40.50	33.87	50.27	43.64	56.00	46.00	-5.73	-2.36
*9	3.36402	9.78	38.62	33.02	48.40	42.80	56.00	46.00	-7.60	-3.20
10	8.54868	9.84	36.86	28.15	46.70	37.99	60.00	50.00	-13.30	-12.01

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.
- * Conducted emissions were evaluated with RF module off to determine whether failing results were originating from the RF module (See RF module off Mode data). After verification, frequencies denoted by the * which include emissions that are failing or not meeting 4dB margin have been identified as coming from unintentional emission signal brought out by the power supply. All unintentional emissions are addressed in the test report no. FDBCYK-WTW-P21070588.

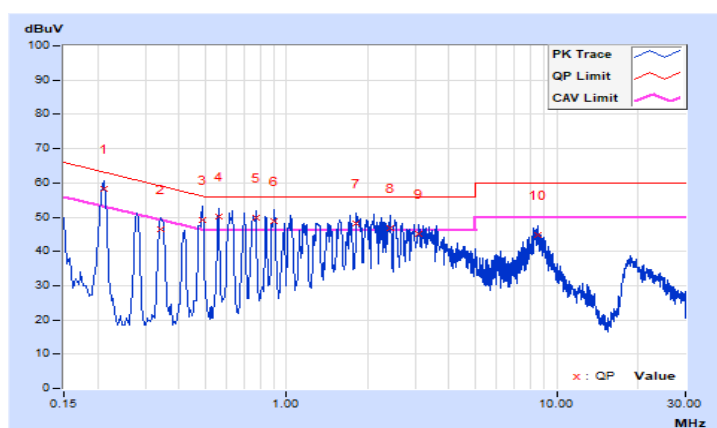


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

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	0.21256	9.77	48.33	46.12	58.10	55.89	63.10	53.10	-5.00	2.79
2	0.34159	9.78	36.58	33.68	46.36	43.46	59.16	49.16	-12.80	-5.70
*3	0.49017	9.79	39.38	35.09	49.17	44.88	56.16	46.16	-6.99	-1.28
*4	0.56055	9.80	40.33	36.14	50.13	45.94	56.00	46.00	-5.87	-0.06
*5	0.77169	9.81	40.08	34.66	49.89	44.47	56.00	46.00	-6.11	-1.53
6	0.90072	9.82	38.84	31.08	48.66	40.90	56.00	46.00	-7.34	-5.10
*7	1.81957	9.83	38.37	31.53	48.20	41.36	56.00	46.00	-7.80	-4.64
8	2.42171	9.83	37.01	26.77	46.84	36.60	56.00	46.00	-9.16	-9.40
9	3.08250	9.84	35.43	28.54	45.27	38.38	56.00	46.00	-10.73	-7.62
10	8.47830	9.91	34.94	27.11	44.85	37.02	60.00	50.00	-15.15	-12.98

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.
- * Conducted emissions were evaluated with RF module off to determine whether failing results were originating from the RF module (See RF module off Mode data). After verification, frequencies denoted by the * which include emissions that are failing or not meeting 4dB margin have been identified as coming from unintentional emission signal brought out by the power supply. All unintentional emissions are addressed in the test report no. FDBCYK-WTW-P21070588.

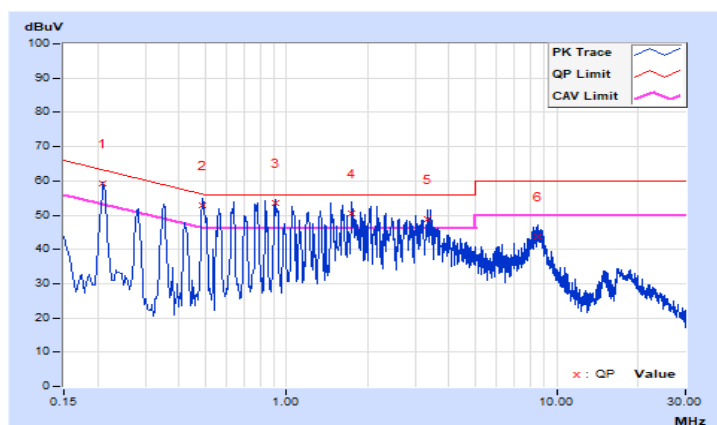


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

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	0.21000	9.71	49.57	46.87	59.28	56.58	63.21	53.21	-3.93	3.37
*2	0.49000	9.73	43.28	37.97	53.01	47.70	56.17	46.17	-3.16	1.53
*3	0.90600	9.76	43.76	37.68	53.52	47.44	56.00	46.00	-2.48	1.44
*4	1.74600	9.77	40.65	33.67	50.42	43.44	56.00	46.00	-5.58	-2.56
*5	3.35000	9.78	39.05	33.67	48.83	43.45	56.00	46.00	-7.17	-2.55
6	8.50600	9.84	33.87	24.10	43.71	33.94	60.00	50.00	-16.29	-16.06

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.
- * Conducted emissions were evaluated with RF module off to determine whether failing results were originating from the RF module (See RF module off Mode data). After verification, frequencies denoted by the * which include emissions that are failing or not meeting 4dB margin have been identified as coming from unintentional emission signal brought out by the power supply. All unintentional emissions are addressed in the test report no. FDBCYK-WTW-P21070588.

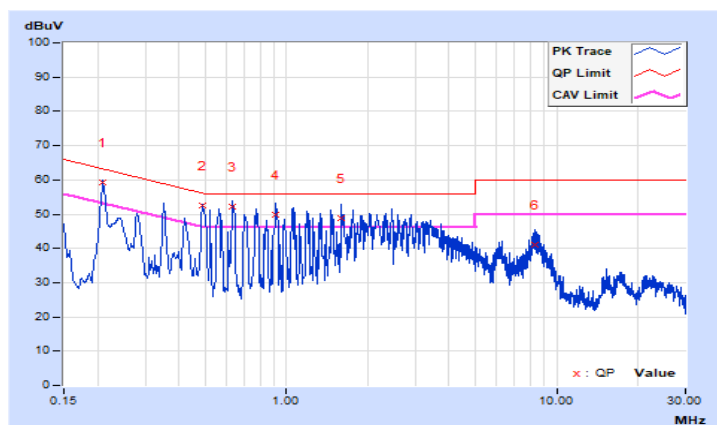


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

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	0.21000	9.77	49.40	46.75	59.17	56.52	63.21	53.21	-4.04	3.31
*2	0.49000	9.79	42.74	37.66	52.53	47.45	56.17	46.17	-3.64	1.28
*3	0.63000	9.80	42.47	36.68	52.27	46.48	56.00	46.00	-3.73	0.48
*4	0.91400	9.82	39.94	33.31	49.76	43.13	56.00	46.00	-6.24	-2.87
*5	1.60200	9.83	39.06	31.19	48.89	41.02	56.00	46.00	-7.11	-4.98
6	8.31000	9.91	31.18	22.37	41.09	32.28	60.00	50.00	-18.91	-17.72

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.
- * Conducted emissions were evaluated with RF module off to determine whether failing results were originating from the RF module (See RF module off Mode data). After verification, frequencies denoted by the * which include emissions that are failing or not meeting 4dB margin have been identified as coming from unintentional emission signal brought out by the power supply. All unintentional emissions are addressed in the test report no. FDBCYK-WTW-P21070588.



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 $N_{ANT} \leq 4$;

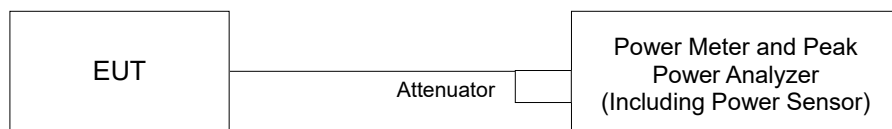
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

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

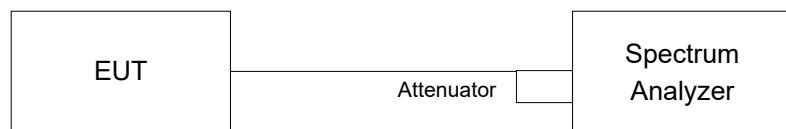
For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

4.3.2 Test Setup

For Power Output



For 26dB Bandwidth and power output of transmission above 5.725 GHz where the EBW crosses 5.725 GHz



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

For Average Power Measurement

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

For transmission above 5.725 GHz where the EBW crosses 5.725 GHz

For channel aggregation (channel 138, 142, 144) measurement refer to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section II E 2 b) method SA-1.

For 26dB Bandwidth

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

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

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

4.3.7 Test Result

Power Output:

1TX (Low Power)

802.11a

Chan.	Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	7.691	8.86	24.00	Pass
40	5200	7.482	8.74	24.00	Pass
48	5240	7.568	8.79	24.00	Pass
52	5260	7.727	8.88	24.00	Pass
60	5300	7.551	8.78	24.00	Pass
64	5320	7.482	8.74	24.00	Pass
100	5500	7.345	8.66	24.00	Pass
116	5580	7.261	8.61	24.00	Pass
140	5700	7.534	8.77	24.00	Pass
144	5720 (For U-NII-2C)	7.798	8.92	23.74	Pass
144	5720 (For U-NII-3)	1.570	1.96	30.00	Pass
149	5745	7.889	8.97	30.00	Pass
157	5785	7.852	8.95	30.00	Pass
165	5825	7.464	8.73	30.00	Pass

Note:

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

1. $11\text{dBm} + 10\log(38.64) = 26.87 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(27.19) = 25.34 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(27.36) = 25.37 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(28.18) = 25.49 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(38.10) = 26.80 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(27.76) = 25.43 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5706.17) = 23.74 < 24\text{dBm}$

802.11ac (VHT20)

Chan.	Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	7.211	8.58	24.00	Pass
40	5200	7.638	8.83	24.00	Pass
48	5240	7.691	8.86	24.00	Pass
52	5260	7.568	8.79	24.00	Pass
60	5300	7.345	8.66	24.00	Pass
64	5320	7.638	8.83	24.00	Pass
100	5500	7.261	8.61	24.00	Pass
116	5580	7.345	8.66	24.00	Pass
140	5700	7.745	8.89	24.00	Pass
144	5720 (For U-NII-2C)	7.499	8.75	24.00	Pass
144	5720 (For U-NII-3)	1.416	1.51	30.00	Pass
149	5745	7.447	8.72	30.00	Pass
157	5785	7.816	8.93	30.00	Pass
165	5825	7.674	8.85	30.00	Pass

Note:

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

1. $11\text{dBm} + 10\log(39.57) = 26.97 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(28.11) = 25.48 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(28.05) = 25.47 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(28.71) = 25.58 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(42.57) = 27.29 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(39.73) = 26.99 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5701.36) = 24.73 > 24\text{dBm}$

802.11ac (VHT40)

Chan.	Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	9.247	9.66	24.00	Pass
46	5230	7.295	8.63	24.00	Pass
54	5270	7.482	8.74	24.00	Pass
62	5310	9.886	9.95	24.00	Pass
102	5510	9.183	9.63	24.00	Pass
110	5550	9.183	9.63	24.00	Pass
134	5670	9.268	9.67	24.00	Pass
142	5710 (For U-NII-2C)	9.057	9.57	24.00	Pass
142	5710 (For U-NII-3)	0.607	-2.17	30.00	Pass
151	5755	9.354	9.71	30.00	Pass
159	5795	9.594	9.82	30.00	Pass

Note:

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

1. $11\text{dBm} + 10\log(44.62) = 27.49 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(41.70) = 27.20 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(41.72) = 27.20 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(42.97) = 27.33 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(54.50) = 28.36 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5687.08) = 26.78 > 24\text{dBm}$

802.11ac (VHT80)

Chan.	Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	7.638	8.83	24.00	Pass
58	5290	7.482	8.74	24.00	Pass
106	5530	7.261	8.61	24.00	Pass
122	5610	7.638	8.83	24.00	Pass
138	5690 (For U-NII-2C)	7.482	8.74	24.00	Pass
138	5690 (For U-NII-3)	0.204	-6.90	30.00	Pass
155	5775	7.727	8.88	30.00	Pass

Note:

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

1. $11\text{dBm} + 10\log(80.93) = 30.08 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(80.97) = 30.08 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(99.86) = 30.99 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5639.87) = 30.30 > 24\text{dBm}$

2TX (Low Power)

802.11a

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	9.43	8.55	15.931	12.02	24.00	Pass
40	5200	9.34	8.67	15.952	12.03	24.00	Pass
48	5240	9.31	8.62	15.809	11.99	24.00	Pass
52	5260	9.48	8.83	16.510	12.18	24.00	Pass
60	5300	8.77	8.62	14.811	11.71	24.00	Pass
64	5320	9.25	8.75	15.913	12.02	24.00	Pass
100	5500	9.17	8.56	15.438	11.89	24.00	Pass
116	5580	9.48	8.51	15.967	12.03	24.00	Pass
140	5700	9.33	8.52	15.683	11.95	24.00	Pass
144	5720 (For U-NII-2C)	8.93	8.86	15.508	11.91	23.46	Pass
144	5720 (For U-NII-3)	1.75	1.59	2.938	4.68	30.00	Pass
149	5745	8.98	8.74	15.388	11.87	30.00	Pass
157	5785	8.95	8.72	15.300	11.85	30.00	Pass
165	5825	8.77	8.59	14.761	11.69	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(26.36) = 25.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(34.05) = 26.32 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(27.18) = 25.34 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(27.34) = 25.36 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(28.43) = 25.53 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(27.26) = 25.35 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5705.93) = 23.80 < 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(25.79) = 25.11 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(26.61) = 25.25 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(28.90) = 25.60 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(26.74) = 25.27 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(24.80) = 24.94 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(29.07) = 25.63 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5707.38) = 23.46 < 24\text{dBm}$

802.11ac (VHT20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	9.46	8.52	15.943	12.03	24.00	Pass
40	5200	9.43	8.55	15.931	12.02	24.00	Pass
48	5240	9.41	8.61	15.991	12.04	24.00	Pass
52	5260	8.81	8.54	14.748	11.69	24.00	Pass
60	5300	9.17	8.96	16.131	12.08	24.00	Pass
64	5320	9.32	8.96	16.421	12.15	24.00	Pass
100	5500	9.17	8.51	15.356	11.86	24.00	Pass
116	5580	9.33	8.53	15.699	11.96	24.00	Pass
140	5700	8.88	8.59	14.955	11.75	24.00	Pass
144	5720 (For U-NII-2C)	8.77	8.66	14.879	11.73	23.64	Pass
144	5720 (For U-NII-3)	0.74	0.57	2.326	3.67	30.00	Pass
149	5745	9.29	8.66	15.837	12.00	30.00	Pass
157	5785	8.93	8.64	15.128	11.80	30.00	Pass
165	5825	9.32	8.94	16.385	12.14	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(28.85) = 25.60 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(29.68) = 25.72 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(29.10) = 25.63 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(29.06) = 25.63 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(36.74) = 26.65 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(29.96) = 25.76 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5705.90) = 23.81 < 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(27.50) = 25.39 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(37.36) = 26.72 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(27.61) = 25.41 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(29.26) = 25.66 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(28.20) = 25.50 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(28.42) = 25.53 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5706.62) = 23.64 < 24\text{dBm}$

802.11ac (VHT40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	10.15	9.54	19.346	12.87	24.00	Pass
46	5230	10.31	9.56	19.776	12.96	24.00	Pass
54	5270	9.78	10.31	20.246	13.06	24.00	Pass
62	5310	9.94	9.72	19.238	12.84	24.00	Pass
102	5510	10.14	9.51	19.261	12.85	24.00	Pass
110	5550	10.38	9.55	19.930	13.00	24.00	Pass
134	5670	10.21	9.56	19.532	12.91	24.00	Pass
142	5710 (For U-NII-2C)	10.11	10.57	21.659	13.36	24.00	Pass
142	5710 (For U-NII-3)	-1.85	-0.94	1.459	1.64	30.00	Pass
151	5755	10.29	9.94	20.553	13.13	30.00	Pass
159	5795	10.28	9.84	20.304	13.08	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(41.54) = 27.18 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.07) = 27.23 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(41.61) = 27.19 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.91) = 27.22 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.32) = 26.52 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(41.88) = 27.22 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(41.78) = 27.20 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(41.52) = 27.18 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.80) = 27.21 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.56) = 27.18 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.10) = 26.55 > 24\text{dBm}$

802.11ac (VHT80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	9.34	8.95	16.442	12.16	24.00	Pass
58	5290	8.74	8.62	14.759	11.69	24.00	Pass
106	5530	9.45	8.53	15.939	12.02	24.00	Pass
122	5610	9.47	8.51	15.947	12.03	24.00	Pass
138	5690 (For U-NII-2C)	9.48	8.52	15.984	12.04	24.00	Pass
138	5690 (For U-NII-3)	-6.14	-7.03	0.441	-3.55	30.00	Pass
155	5775	8.89	8.76	15.261	11.84	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(80.87) = 30.07 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(80.96) = 30.08 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(80.82) = 30.07 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5645.51) = 30.00 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(80.82) = 30.07 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(80.77) = 30.07 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(81.02) = 30.08 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5649.66) = 29.77 > 24\text{dBm}$

1TX (High Power)

802.11a

Chan.	Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	59.979	17.78	24.00	Pass
40	5200	61.518	17.89	24.00	Pass
48	5240	109.648	20.40	24.00	Pass
52	5260	118.850	20.75	24.00	Pass
60	5300	96.828	19.86	24.00	Pass
64	5320	65.766	18.18	24.00	Pass
100	5500	37.670	15.76	24.00	Pass
116	5580	139.316	21.44	24.00	Pass
140	5700	74.131	18.70	24.00	Pass
144	5720 (For U-NII-2C)	118.850	20.75	23.74	Pass
144	5720 (For U-NII-3)	23.933	13.79	30.00	Pass
149	5745	155.597	21.92	30.00	Pass
157	5785	182.810	22.62	30.00	Pass
165	5825	154.882	21.90	30.00	Pass

Note:

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

1. $11\text{dBm} + 10\log(38.64) = 26.87 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(27.19) = 25.34 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(27.36) = 25.37 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(28.18) = 25.49 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(38.10) = 26.80 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(27.76) = 25.43 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5706.17) = 23.74 < 24\text{dBm}$

802.11ac (VHT20)

Chan.	Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	50.816	17.06	24.00	Pass
40	5200	49.888	16.98	24.00	Pass
48	5240	84.333	19.26	24.00	Pass
52	5260	118.577	20.74	24.00	Pass
60	5300	64.863	18.12	24.00	Pass
64	5320	66.069	18.20	24.00	Pass
100	5500	41.495	16.18	24.00	Pass
116	5580	126.765	21.03	24.00	Pass
140	5700	80.538	19.06	24.00	Pass
144	5720 (For U-NII-2C)	110.154	20.42	24.00	Pass
144	5720 (For U-NII-3)	20.797	13.18	30.00	Pass
149	5745	125.026	20.97	30.00	Pass
157	5785	134.896	21.30	30.00	Pass
165	5825	145.881	21.64	30.00	Pass

Note:

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

1. $11\text{dBm} + 10\log(39.57) = 26.97 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(28.11) = 25.48 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(28.05) = 25.47 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(28.71) = 25.58 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(42.57) = 27.29 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(39.73) = 26.99 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5701.36) = 24.73 > 24\text{dBm}$

802.11ac (VHT40)

Chan.	Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	48.529	16.86	24.00	Pass
46	5230	89.331	19.51	24.00	Pass
54	5270	85.704	19.33	24.00	Pass
62	5310	51.286	17.10	24.00	Pass
102	5510	38.459	15.85	24.00	Pass
110	5550	65.013	18.13	24.00	Pass
134	5670	79.616	19.01	24.00	Pass
142	5710 (For U-NII-2C)	93.541	19.71	24.00	Pass
142	5710 (For U-NII-3)	6.266	7.97	30.00	Pass
151	5755	109.144	20.38	30.00	Pass
159	5795	98.401	19.93	30.00	Pass

Note:

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

1. $11\text{dBm} + 10\log(44.62) = 27.49 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(41.70) = 27.20 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(41.72) = 27.20 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(42.97) = 27.33 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(54.50) = 28.36 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5687.08) = 26.78 > 24\text{dBm}$

802.11ac (VHT80)

Chan.	Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	31.189	14.94	24.00	Pass
58	5290	21.577	13.34	24.00	Pass
106	5530	22.803	13.58	24.00	Pass
122	5610	74.473	18.72	24.00	Pass
138	5690 (For U-NII-2C)	99.541	19.98	24.00	Pass
138	5690 (For U-NII-3)	2.716	4.34	30.00	Pass
155	5775	75.509	18.78	30.00	Pass

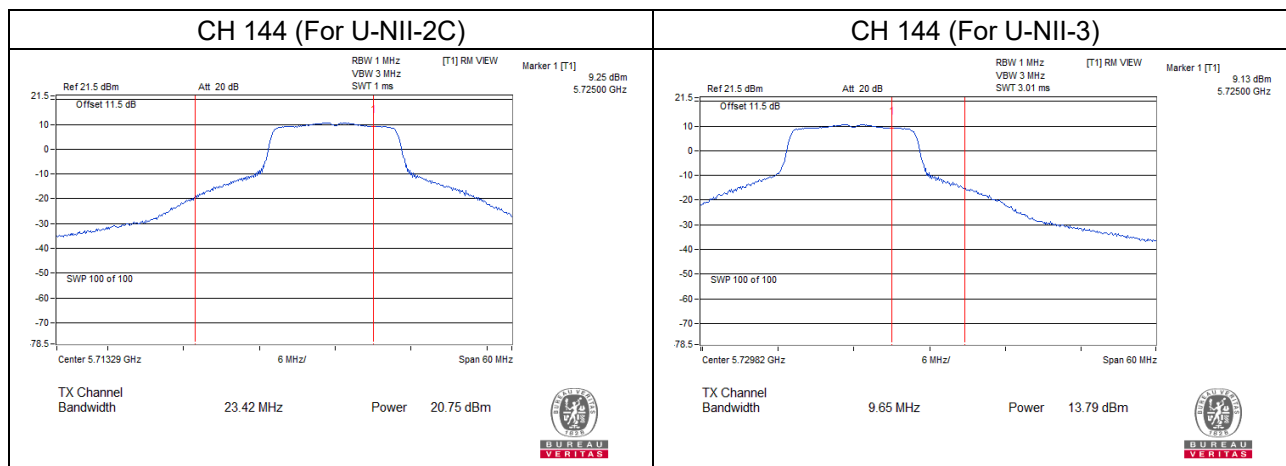
Note:

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

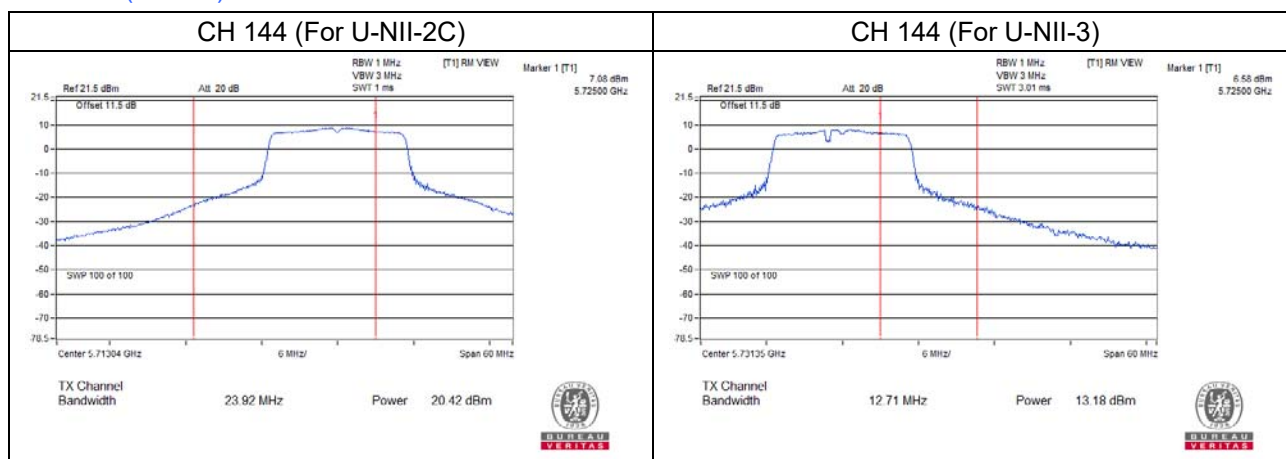
1. $11\text{dBm} + 10\log(80.93) = 30.08 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(80.97) = 30.08 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(99.86) = 30.99 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5639.87) = 30.30 > 24\text{dBm}$

Straddle channel power plots:

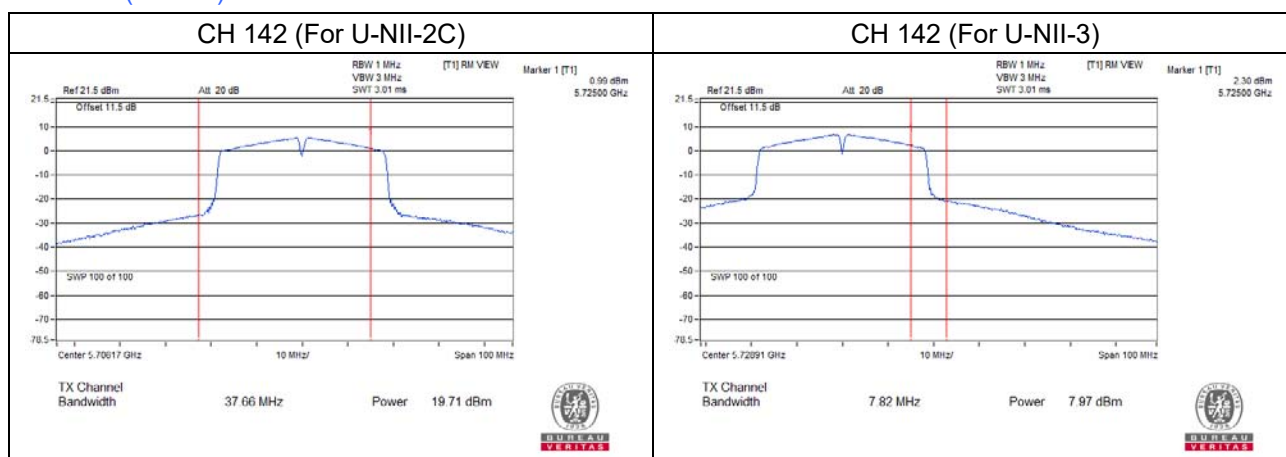
802.11a



802.11ac (VHT20)

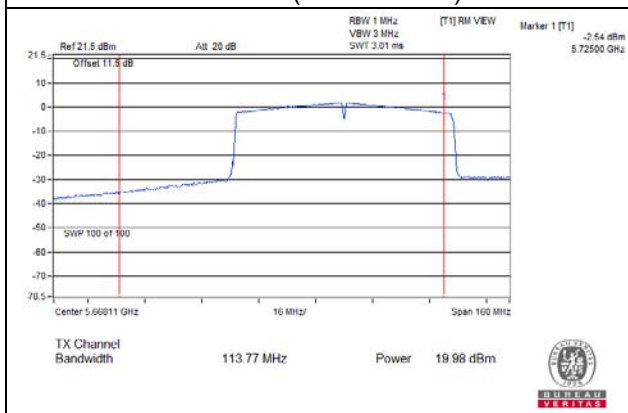


802.11ac (VHT40)

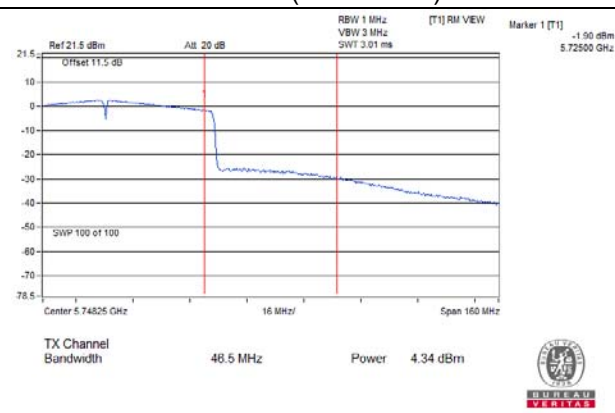


802.11ac (VHT80)

CH 138 (For U-NII-2C)



CH 138 (For U-NII-3)



2TX (High Power)

802.11a

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	15.55	15.06	67.955	18.32	24.00	Pass
40	5200	17.07	16.86	99.462	19.98	24.00	Pass
48	5240	18.65	18.22	139.657	21.45	24.00	Pass
52	5260	18.95	18.52	149.645	21.75	24.00	Pass
60	5300	18.81	18.00	139.128	21.43	24.00	Pass
64	5320	15.84	15.54	74.180	18.70	24.00	Pass
100	5500	16.34	15.98	82.680	19.17	24.00	Pass
116	5580	19.33	18.23	152.231	21.83	24.00	Pass
140	5700	18.18	17.17	117.885	20.71	24.00	Pass
144	5720 (For U-NII-2C)	18.20	17.32	120.020	20.79	23.46	Pass
144	5720 (For U-NII-3)	10.02	9.72	19.422	12.88	30.00	Pass
149	5745	19.97	18.55	170.926	22.33	30.00	Pass
157	5785	20.24	18.69	179.642	22.54	30.00	Pass
165	5825	20.20	18.74	179.530	22.54	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(26.36) = 25.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(34.05) = 26.32 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(27.18) = 25.34 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(27.34) = 25.36 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(28.43) = 25.53 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(27.26) = 25.35 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5705.93) = 23.80 < 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(25.79) = 25.11 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(26.61) = 25.25 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(28.90) = 25.60 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(26.74) = 25.27 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(24.80) = 24.94 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(29.07) = 25.63 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5707.38) = 23.46 < 24\text{dBm}$

802.11ac (VHT20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	15.75	15.61	73.975	18.69	24.00	Pass
40	5200	17.20	16.89	101.346	20.06	24.00	Pass
48	5240	18.32	17.66	126.265	21.01	24.00	Pass
52	5260	18.70	17.90	135.791	21.33	24.00	Pass
60	5300	16.42	16.28	86.315	19.36	24.00	Pass
64	5320	15.41	15.15	67.488	18.29	24.00	Pass
100	5500	15.46	14.32	62.196	17.94	24.00	Pass
116	5580	18.84	17.63	134.503	21.29	24.00	Pass
140	5700	17.42	16.44	99.263	19.97	24.00	Pass
144	5720 (For U-NII-2C)	17.96	17.09	113.685	20.56	23.64	Pass
144	5720 (For U-NII-3)	9.93	8.80	17.426	12.41	30.00	Pass
149	5745	18.42	18.14	134.665	21.29	30.00	Pass
157	5785	18.46	17.68	128.759	21.10	30.00	Pass
165	5825	18.83	18.05	140.210	21.47	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(28.85) = 25.60 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(29.68) = 25.72 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(29.10) = 25.63 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(29.06) = 25.63 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(36.74) = 26.65 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(29.96) = 25.76 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5705.90) = 23.81 < 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(27.50) = 25.39 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(37.36) = 26.72 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(27.61) = 25.41 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(29.26) = 25.66 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(28.20) = 25.50 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(28.42) = 25.53 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5706.62) = 23.64 < 24\text{dBm}$

802.11ac (VHT40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	15.40	14.92	65.719	18.18	24.00	Pass
46	5230	17.68	16.82	106.698	20.28	24.00	Pass
54	5270	16.88	16.66	95.098	19.78	24.00	Pass
62	5310	14.37	14.16	53.414	17.28	24.00	Pass
102	5510	14.83	13.82	54.508	17.36	24.00	Pass
110	5550	16.32	15.01	74.551	18.72	24.00	Pass
134	5670	17.26	16.94	102.642	20.11	24.00	Pass
142	5710 (For U-NII-2C)	17.15	16.68	98.439	19.93	24.00	Pass
142	5710 (For U-NII-3)	5.19	5.17	6.592	8.19	30.00	Pass
151	5755	18.03	16.70	110.307	20.43	30.00	Pass
159	5795	18.30	16.35	110.760	20.44	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(41.54) = 27.18 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.07) = 27.23 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(41.61) = 27.19 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.91) = 27.22 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.32) = 26.52 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(41.88) = 27.22 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(41.78) = 27.20 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(41.52) = 27.18 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.80) = 27.21 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.56) = 27.18 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.10) = 26.55 > 24\text{dBm}$

802.11ac (VHT80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	12.20	12.17	33.077	15.20	24.00	Pass
58	5290	12.01	11.91	31.409	14.97	24.00	Pass
106	5530	11.19	10.51	24.398	13.87	24.00	Pass
122	5610	16.46	15.42	79.093	18.98	24.00	Pass
138	5690 (For U-NII-2C)	17.46	16.62	101.638	20.07	24.00	Pass
138	5690 (For U-NII-3)	1.84	0.97	2.778	4.44	30.00	Pass
155	5775	16.06	15.44	75.359	18.77	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(80.87) = 30.07 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(80.96) = 30.08 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(80.82) = 30.07 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5645.51) = 30.00 > 24\text{dBm}$

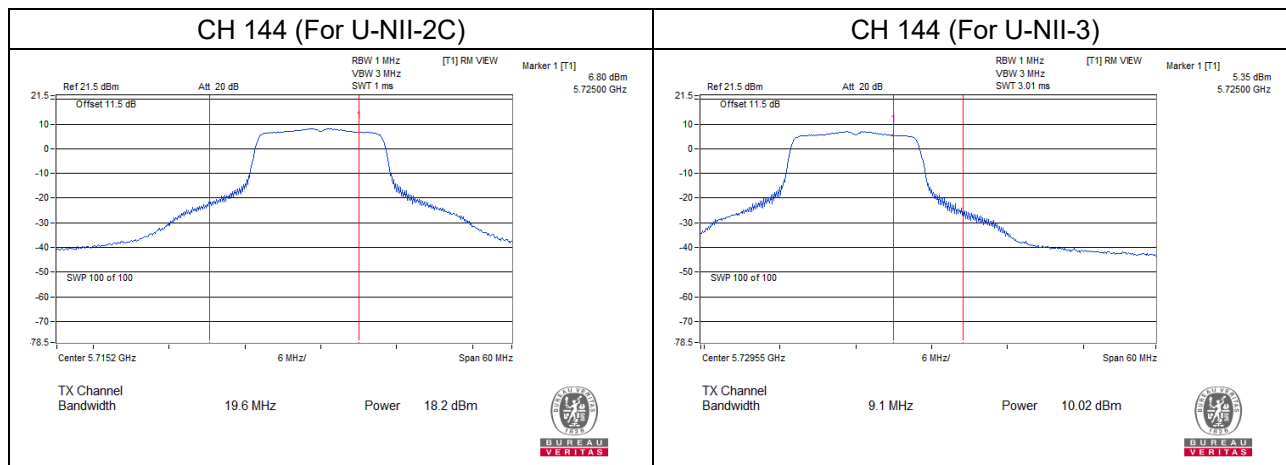
Chain 1

1. $11\text{dBm} + 10\log(80.82) = 30.07 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(80.77) = 30.07 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(81.02) = 30.08 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5649.66) = 29.77 > 24\text{dBm}$

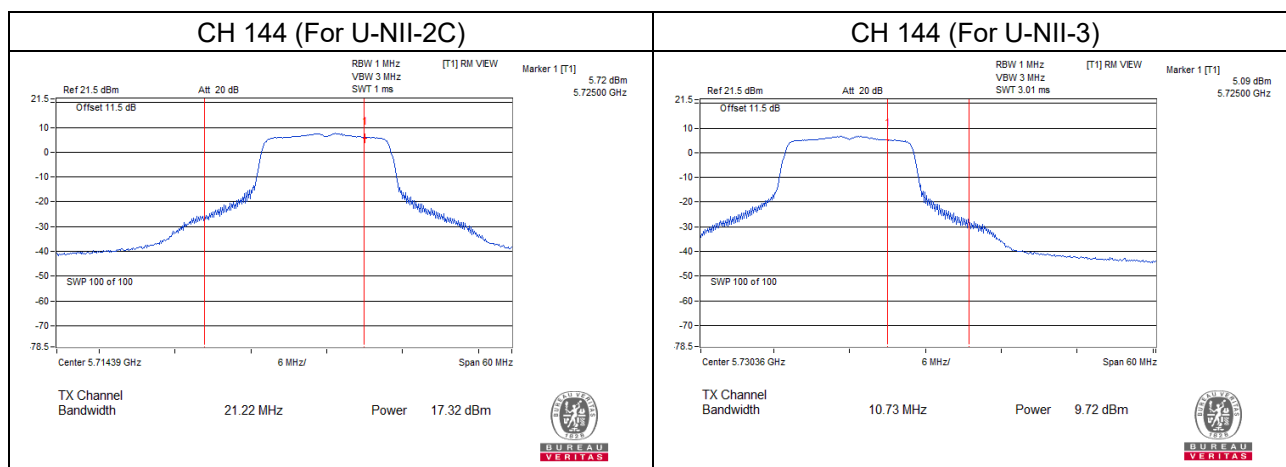
Straddle channel power plots:

802.11a

Chain 0

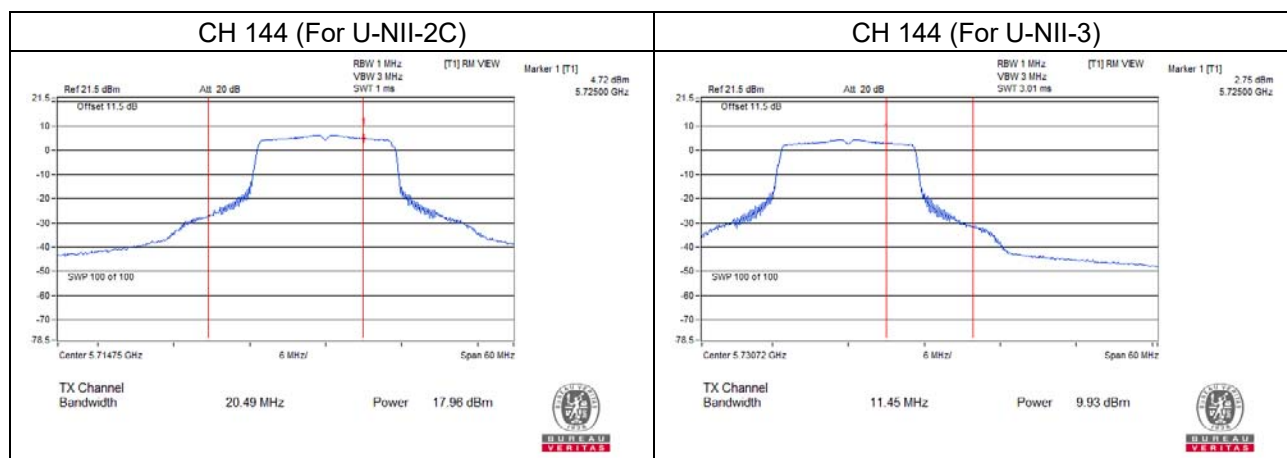


Chain 1

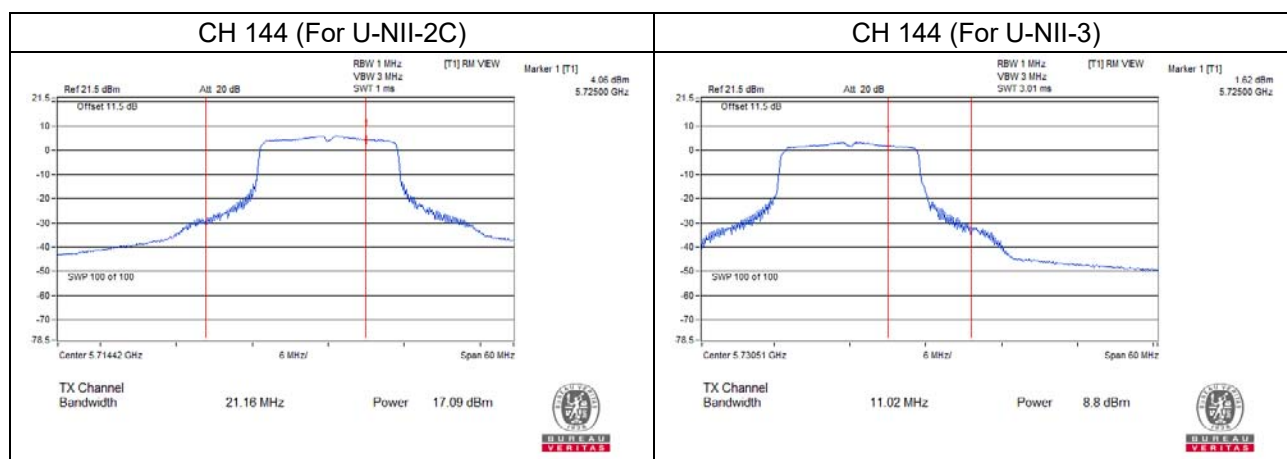


802.11ac (VHT20)

Chain 0

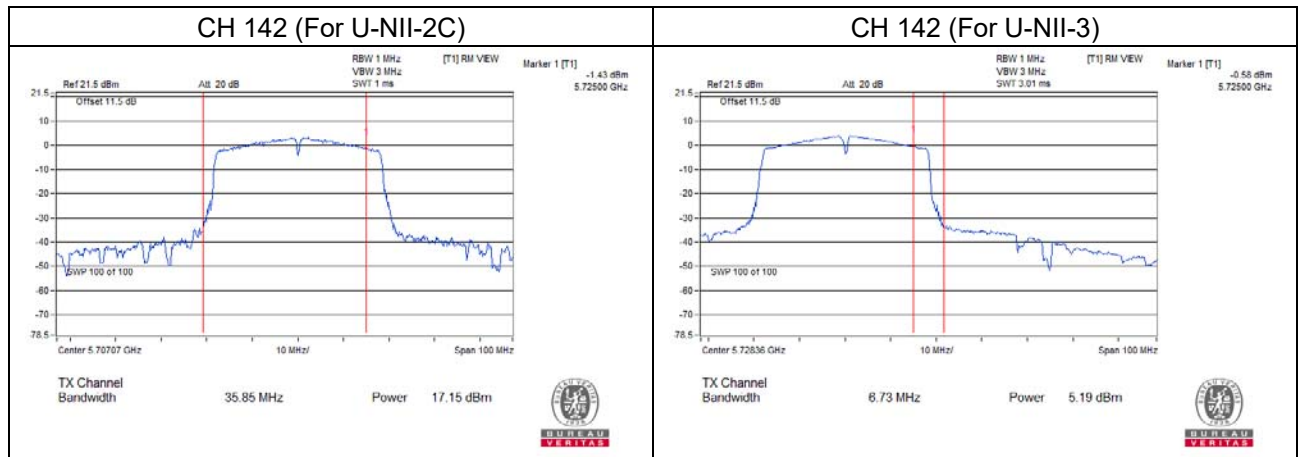


Chain 1

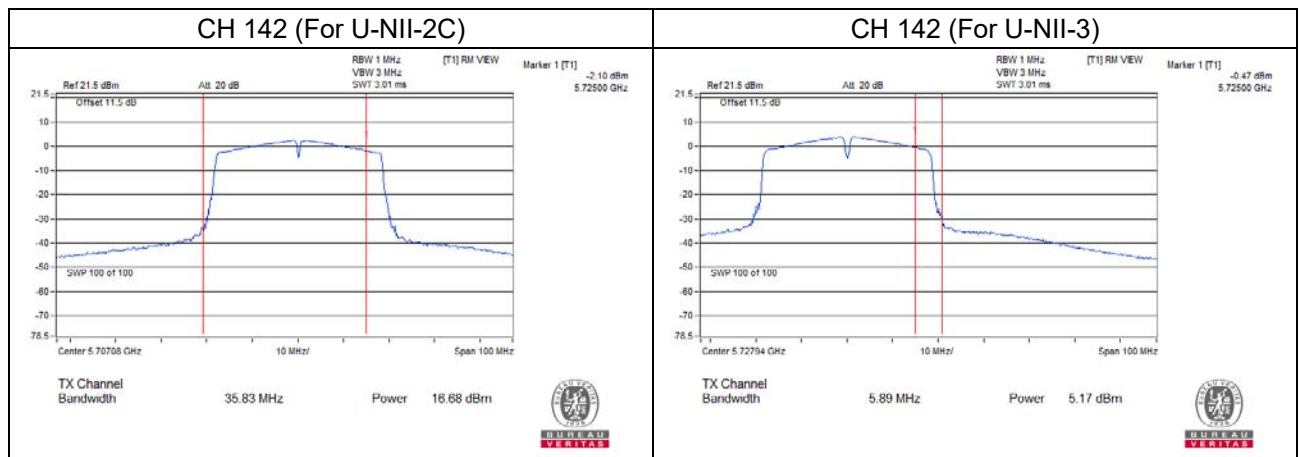


802.11ac (VHT40)

Chain 0

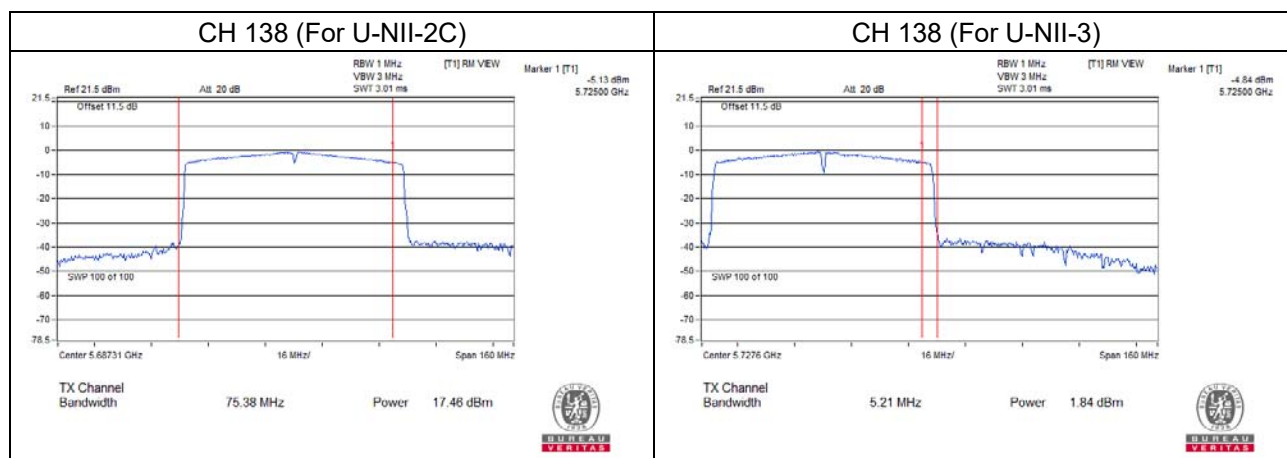


Chain 1

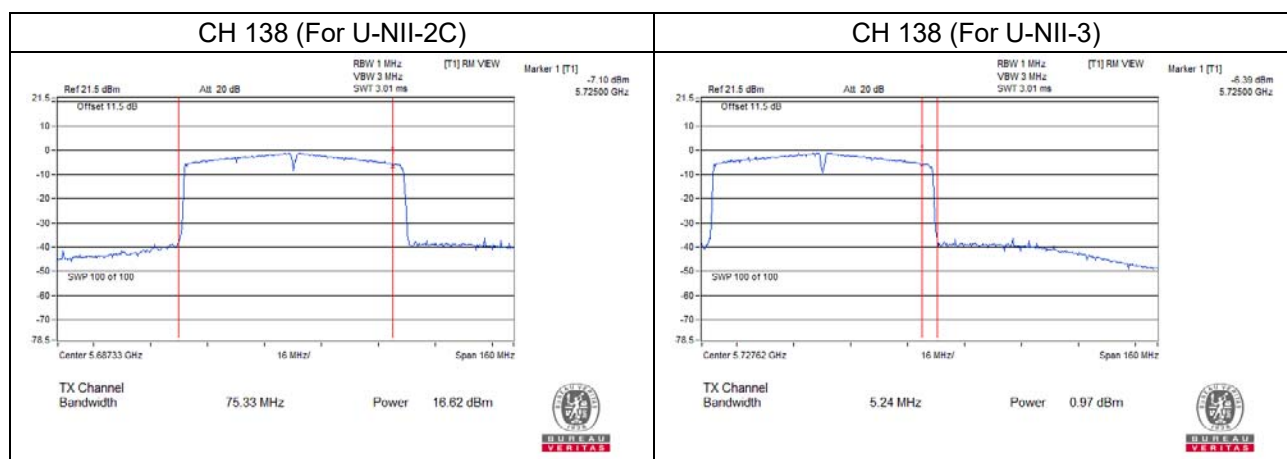


802.11ac (VHT80)

Chain 0



Chain 1



26dB Bandwidth:

1TX (High Power)

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)
52	5260	38.64
60	5300	27.19
64	5320	27.36
100	5500	28.18
116	5580	38.10
140	5700	27.76
144	5720 (For U-NII-2C)	18.83
144	5720 (For U-NII-3)	9.04

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

For CH144 (U-NII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ac (VHT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)
52	5260	39.57
60	5300	28.11
64	5320	28.05
100	5500	28.71
116	5580	42.57
140	5700	39.73
144	5720 (For U-NII-2C)	23.64
144	5720 (For U-NII-3)	13.98

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

For CH144 (U-NII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ac (VHT40)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)
54	5270	44.62
62	5310	41.70
102	5510	41.72
110	5550	42.97
134	5670	54.50
142	5710 (For U-NII-2C)	37.92
142	5710 (For U-NII-3)	7.19

For CH142 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

For CH142 (U-NII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ac (VHT80)

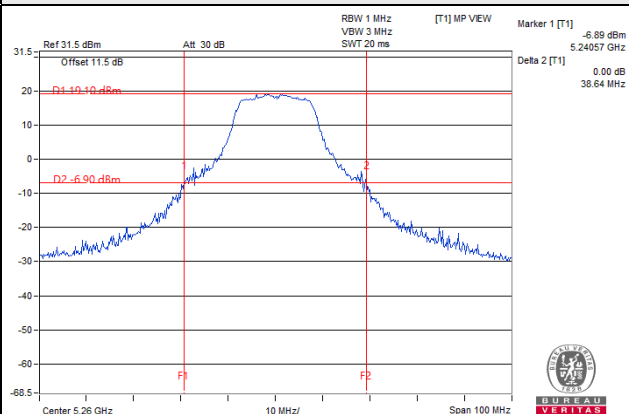
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)
58	5290	80.93
106	5530	80.97
122	5610	99.86
138	5690 (For U-NII-2C)	85.13
138	5690 (For U-NII-3)	13.82

For CH138 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

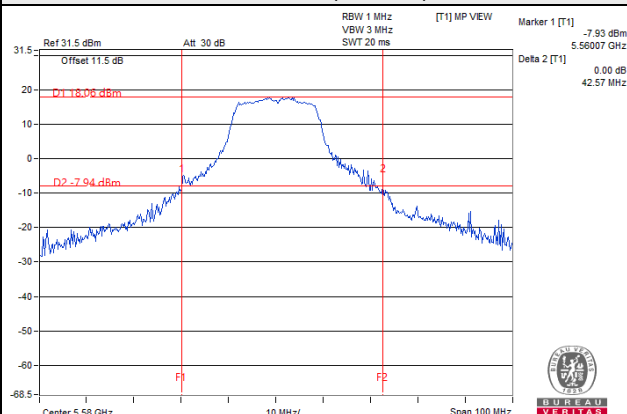
For CH138 (U-NII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

Spectrum Plot of Worst Value

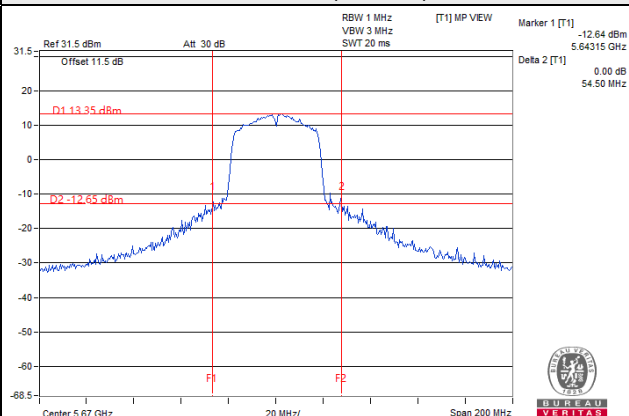
802.11a



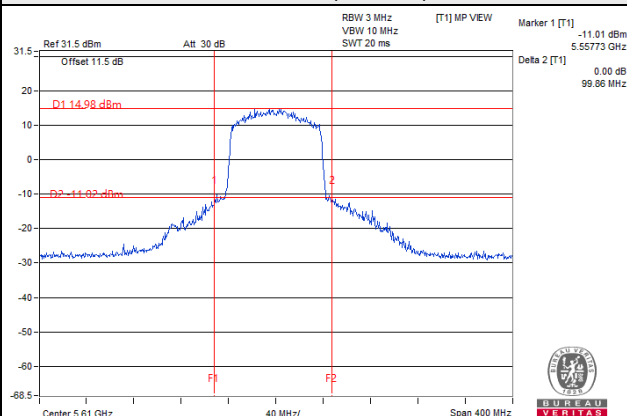
802.11ac (VHT20)



802.11ac (VHT40)



802.11ac (VHT80)



2TX (High Power)

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	26.36	25.79
60	5300	34.05	26.61
64	5320	27.18	28.90
100	5500	27.34	26.74
116	5580	28.43	24.80
140	5700	27.26	29.07
144	5720 (For U-NII-2C)	19.07	17.62
144	5720 (For U-NII-3)	8.32	7.99

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

For CH144 (U-NII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ac (VHT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	28.85	27.50
60	5300	29.68	37.36
64	5320	29.10	27.61
100	5500	29.06	29.26
116	5580	36.74	28.20
140	5700	29.96	28.42
144	5720 (For U-NII-2C)	19.10	18.38
144	5720 (For U-NII-3)	9.54	8.44

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

For CH144 (U-NII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ac (VHT40)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	41.54	41.88
62	5310	42.07	41.78
102	5510	41.61	41.52
110	5550	41.91	41.80
134	5670	41.69	41.56
142	5710 (For U-NII-2C)	35.68	35.90
142	5710 (For U-NII-3)	5.48	5.80

For CH142 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

For CH142 (UNII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ac (VHT80)

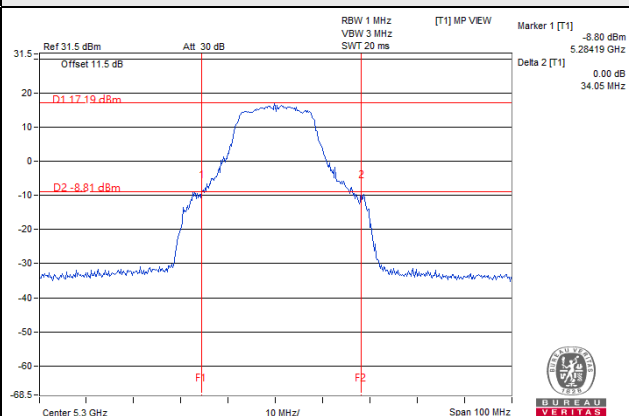
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	80.87	80.82
106	5530	80.96	80.77
122	5610	80.82	81.02
138	5690 (For U-NII-2C)	79.49	75.34
138	5690 (For U-NII-3)	5.41	7.69

For CH138 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

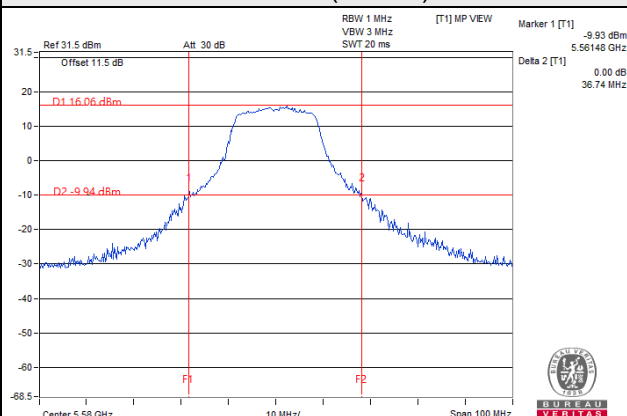
For CH138 (UNII-3 Band): The 26dBc bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

Spectrum Plot of Worst Value

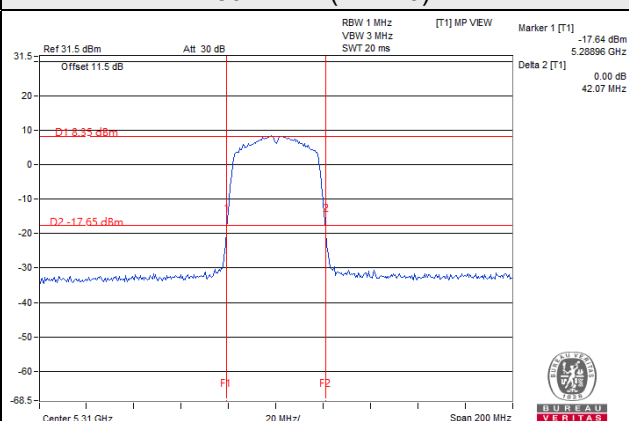
802.11a



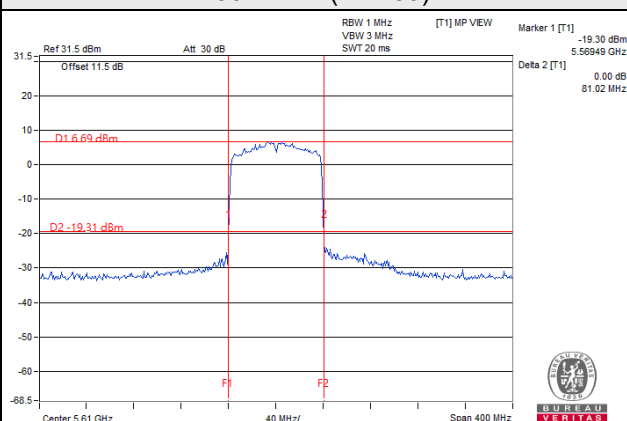
802.11ac (VHT20)



802.11ac (VHT40)



802.11ac (VHT80)



EUT Average Power

1TX (High Power)

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	20.75	118.850
5470~5725	21.44	139.316

802.11ac (VHT20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	20.74	118.577
5470~5725	21.03	126.765

802.11ac (VHT40)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	19.33	85.704
5470~5725	19.71	93.541

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	13.34	21.577
5470~5725	19.98	99.541

2TX (High Power)

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	21.75	149.645
5470~5725	21.83	152.231

802.11ac (VHT20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	21.33	135.791
5470~5725	21.29	134.503

802.11ac (VHT40)

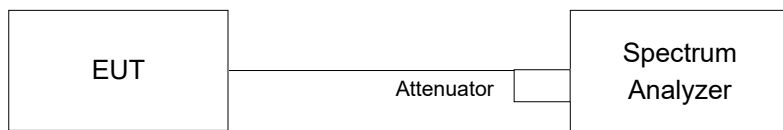
Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	19.78	95.098
5470~5725	20.11	102.642

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	14.97	31.409
5470~5725	20.07	101.638

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

1TX (High Power)

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)
36	5180	17.16
40	5200	17.04
48	5240	17.16
52	5260	17.76
60	5300	17.52
64	5320	17.40
100	5500	17.40
116	5580	17.88
140	5700	17.52
144	5720 (For U-NII-2C)	14.00
144	5720 (For U-NII-3)	3.76
149	5745	18.72
157	5785	20.16
165	5825	19.32

For CH144 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Marker 1

For CH144 (U-NII-3 Band): The Occupied bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ac (VHT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)
36	5180	18.48
40	5200	18.48
48	5240	17.88
52	5260	18.96
60	5300	18.60
64	5320	18.60
100	5500	18.48
116	5580	19.32
140	5700	18.72
144	5720 (For U-NII-2C)	15.08
144	5720 (For U-NII-3)	4.96
149	5745	19.65
157	5785	21.92
165	5825	22.52

For CH144 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Marker 1

For CH144 (U-NII-3 Band): The Occupied bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ac (VHT40)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)
38	5190	36.00
46	5230	36.24
54	5270	36.12
62	5310	36.12
102	5510	36.24
110	5550	36.12
134	5670	36.24
142	5710 (For U-NII-2C)	33.24
142	5710 (For U-NII-3)	3.12
151	5755	36.84
159	5795	36.84

For CH142 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Marker 1

For CH142 (U-NII-3 Band): The Occupied bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ac (VHT80)

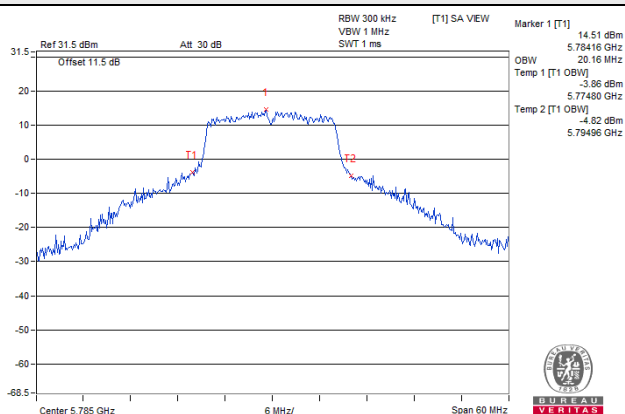
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)
42	5210	75.12
58	5290	75.12
106	5530	75.12
122	5610	75.36
138	5690 (For U-NII-2C)	72.92
138	5690 (For U-NII-3)	2.68
155	5775	75.60

For CH138 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Marker 1

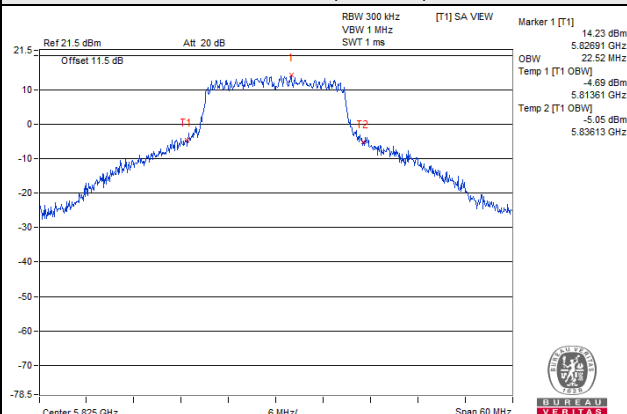
For CH138 (U-NII-3 Band): The Occupied bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

Spectrum Plot of Worst Value

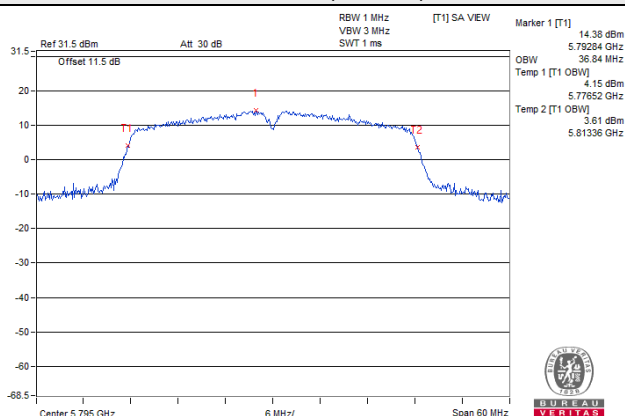
802.11a



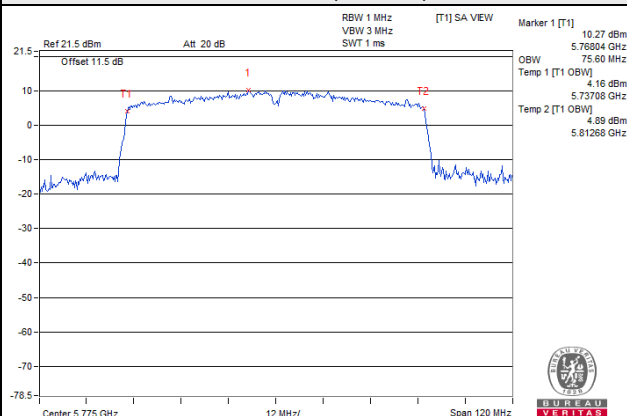
802.11ac (VHT20)



802.11ac (VHT40)

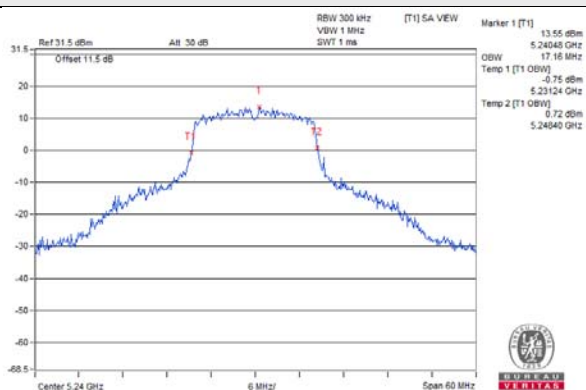


802.11ac (VHT80)

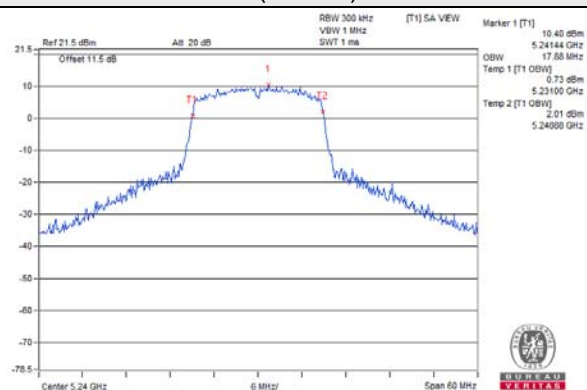


Spectrum Plot for near By DFS Band

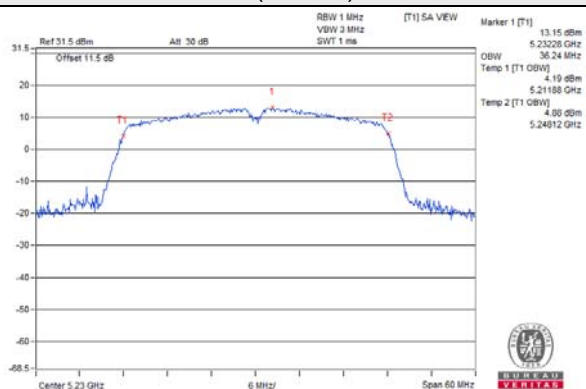
802.11a / CH 48



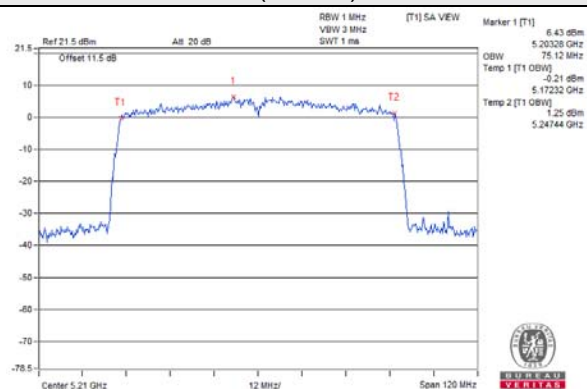
802.11ac (VHT20) / CH 48



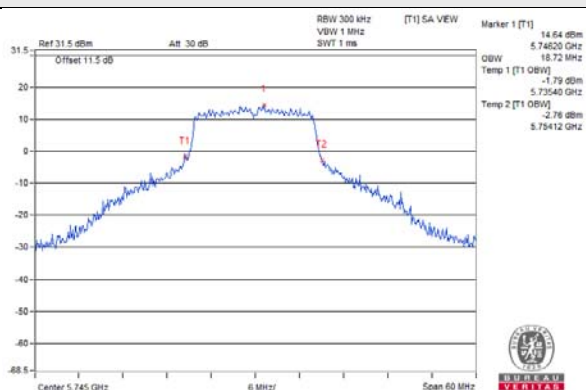
802.11ac (VHT40) / CH 46



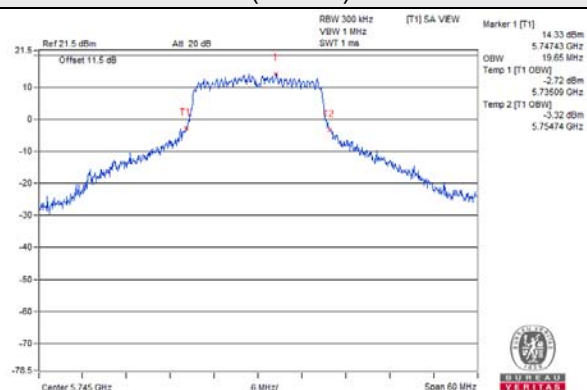
802.11ac (VHT80) / CH 42



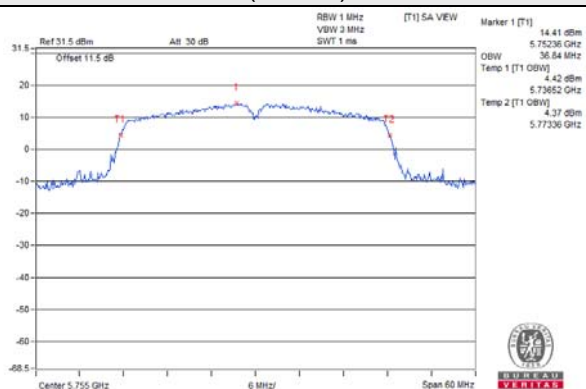
802.11a / CH 149



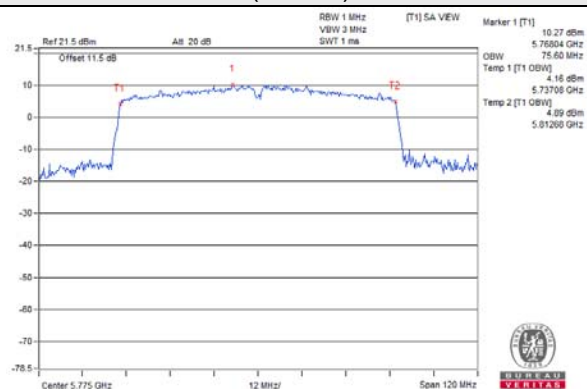
802.11ac (VHT20) / CH 149



802.11ac (VHT40) / CH 151



802.11ac (VHT80) / CH 155



2TX (High Power)

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.11	17.02
40	5200	17.28	16.92
48	5240	16.68	16.56
52	5260	17.28	16.92
60	5300	17.04	17.04
64	5320	17.28	17.04
100	5500	17.28	16.92
116	5580	17.16	16.92
140	5700	17.28	17.16
144	5720 (For U-NII-2C)	13.64	13.52
144	5720 (For U-NII-3)	3.40	3.28
149	5745	17.28	17.04
157	5785	17.04	17.04
165	5825	17.64	17.16

For CH144 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Marker 1

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

802.11ac (VHT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.36	18.36
40	5200	18.48	18.48
48	5240	17.76	17.76
52	5260	18.48	18.60
60	5300	18.48	18.48
64	5320	18.60	18.48
100	5500	18.60	18.60
116	5580	18.72	18.60
140	5700	18.60	18.60
144	5720 (For U-NII-2C)	14.36	14.36
144	5720 (For U-NII-3)	4.12	4.12
149	5745	18.52	18.43
157	5785	18.43	18.35
165	5825	18.78	18.70

For CH144 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Marker 1

For CH144 (U-NII-3 Band): The Occupied bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ac (VHT40)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.12	36.12
46	5230	36.12	36.12
54	5270	36.12	36.12
62	5310	36.24	36.12
102	5510	36.12	36.12
110	5550	36.12	36.12
134	5670	36.12	36.12
142	5710 (For U-NII-2C)	33.12	33.12
142	5710 (For U-NII-3)	2.88	2.88
151	5755	36.36	36.12
159	5795	36.48	36.17

For CH142 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Marker 1

For CH142 (U-NII-3 Band): The Occupied bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ac (VHT80)

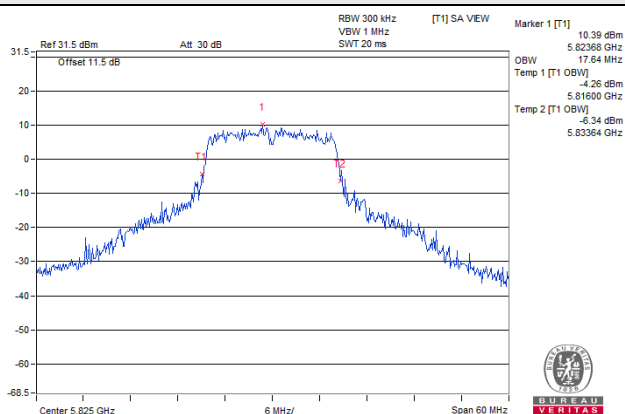
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.36	75.36
58	5290	75.12	75.36
106	5530	75.36	75.12
122	5610	75.12	75.12
138	5690 (For U-NII-2C)	72.68	72.68
138	5690 (For U-NII-3)	2.44	2.44
155	5775	75.31	75.12

For CH138 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Marker 1

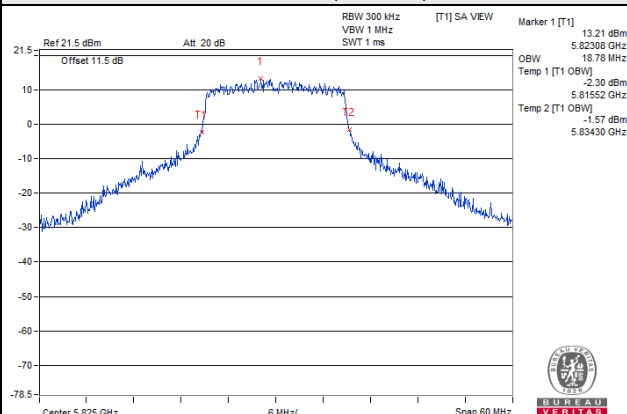
For CH138 (U-NII-3 Band): The Occupied bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

Spectrum Plot of Worst Value

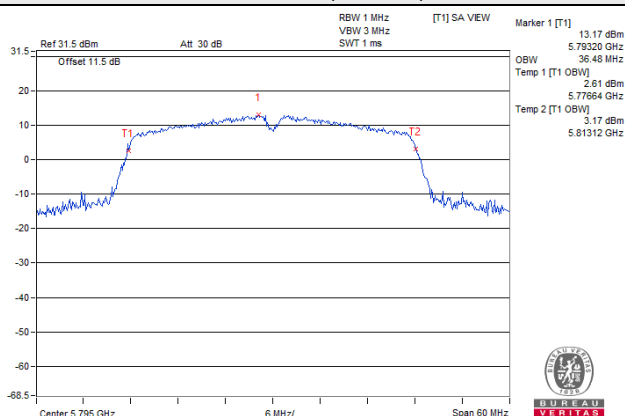
802.11a



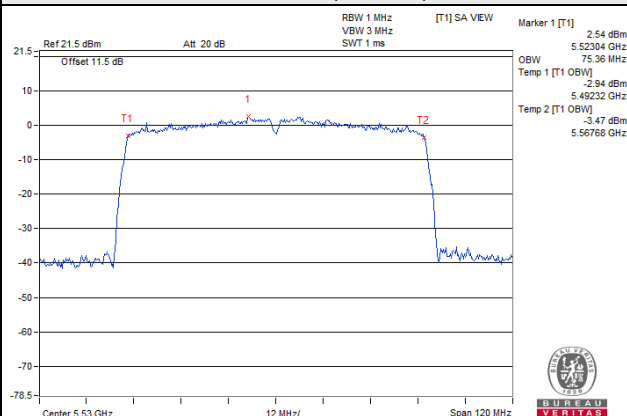
802.11ac (VHT20)



802.11ac (VHT40)

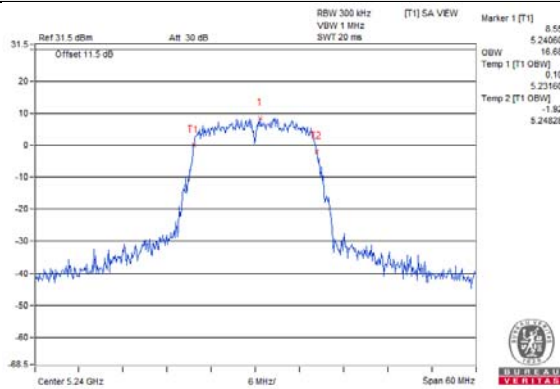


802.11ac (VHT80)

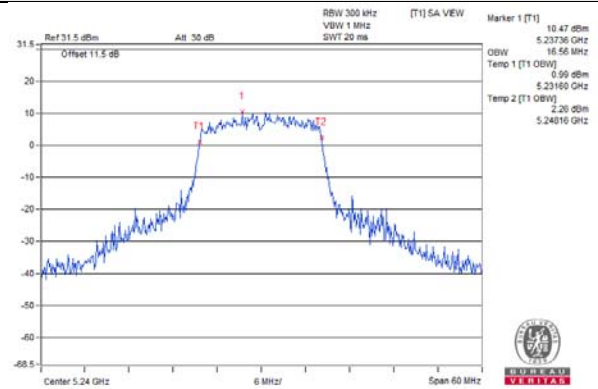


Spectrum Plot for near By DFS Band

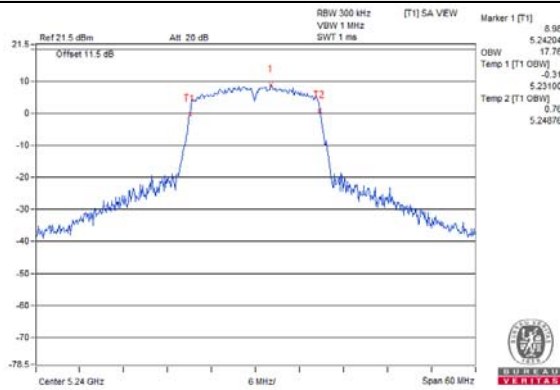
802.11a / Chain 0 / CH 48



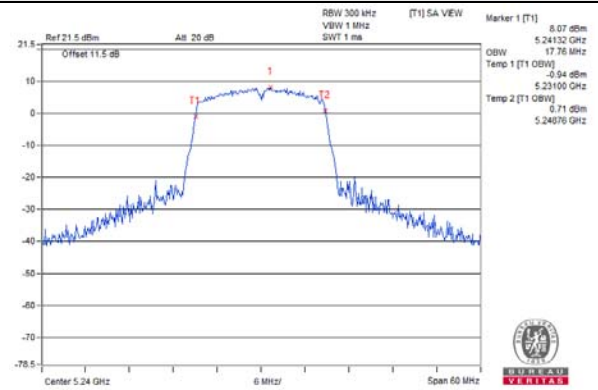
802.11a / Chain 1 / CH 48



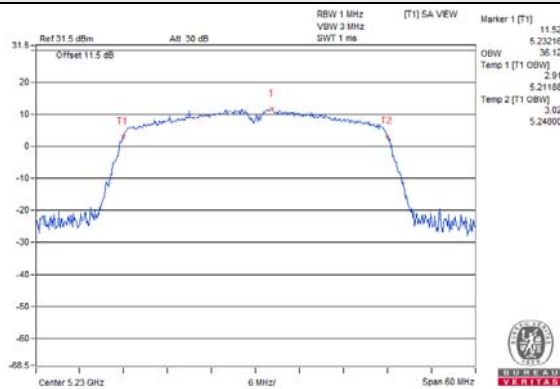
802.11ac (VHT20) / Chain 0 / CH 48



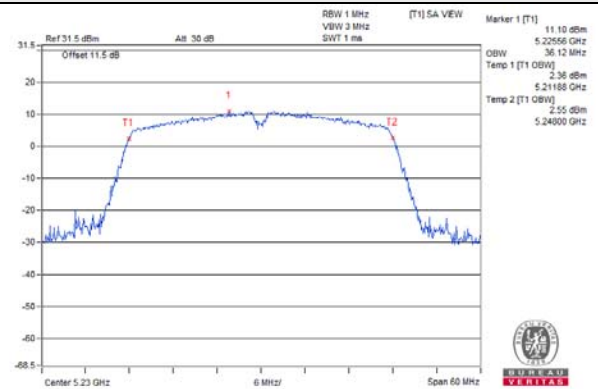
802.11ac (VHT20) / Chain 1 / CH 48



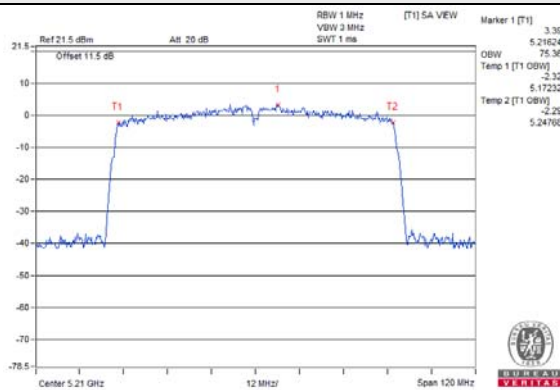
802.11ac (VHT40) / Chain 0 / CH 46



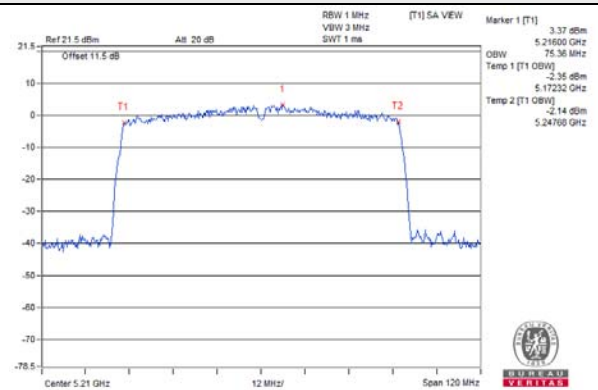
802.11ac (VHT40) / Chain 1 / CH 46



802.11ac (VHT80) / Chain 0 / CH 42

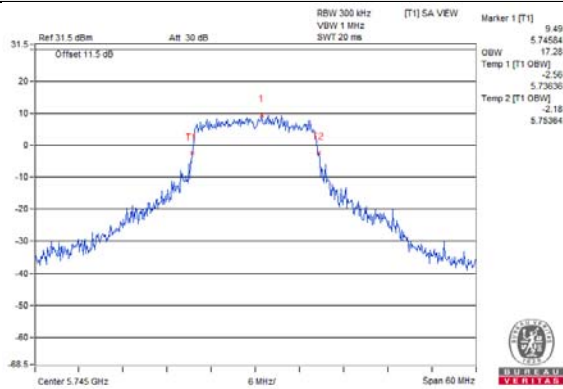


802.11ac (VHT80) / Chain 1 / CH 42

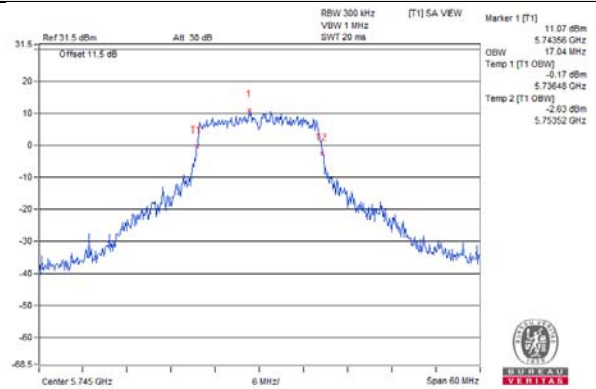


Spectrum Plot for near By DFS Band

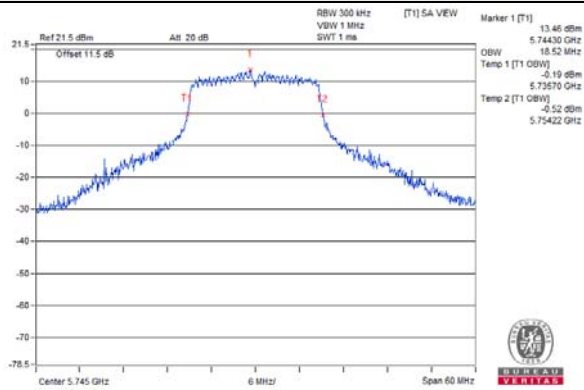
802.11a / Chain 0 / CH 149



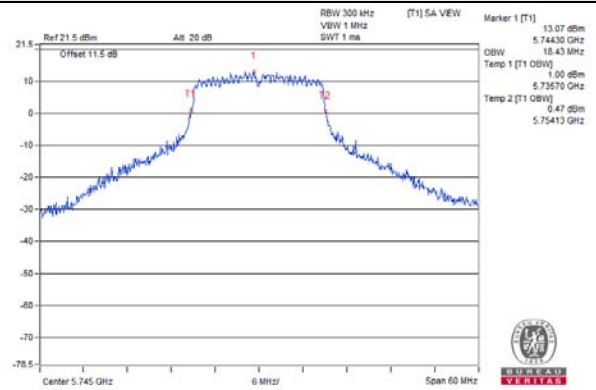
802.11a / Chain 1 / CH 149



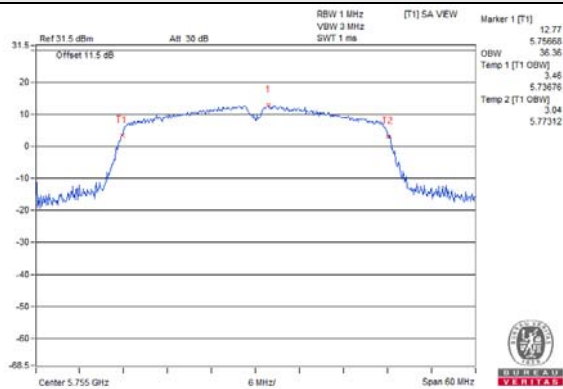
802.11ac (VHT20) / Chain 0 / CH 149



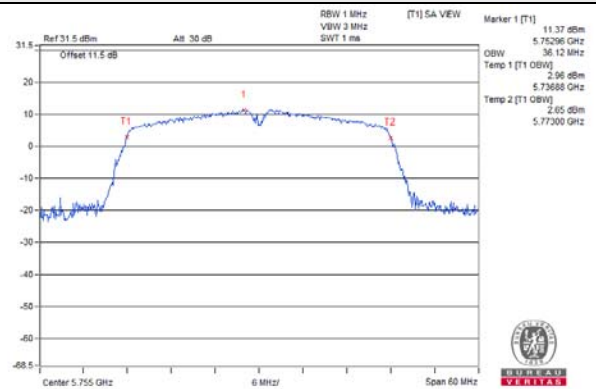
802.11ac (VHT20) / Chain 1 / CH 149



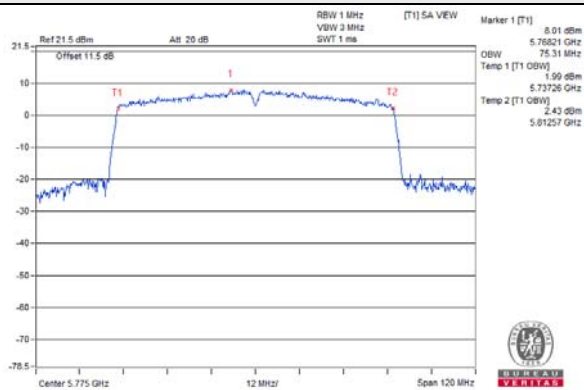
802.11ac (VHT40) / Chain 0 / CH 151



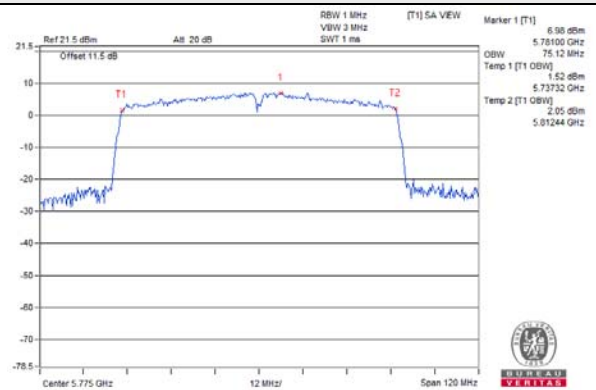
802.11ac (VHT40) / Chain 1 / CH 151



802.11ac (VHT80) / Chain 0 / CH 155



802.11ac (VHT80) / Chain 1 / CH 155

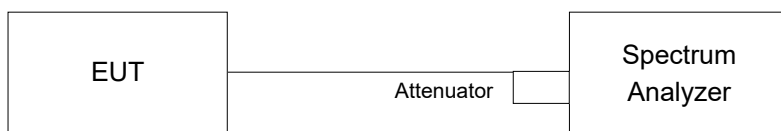


4.5 Peak Power Spectral Density Measurement

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-2

- a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
- b. Set RBW = 1MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- c. Set Channel power measure = 1MHz
- d. Sweep time = auto, trigger set to "free run".
- e. Trace average at least 100 traces in power averaging mode.
- f. 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 (increasing) 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/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

1TX (High Power)

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)	PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
36	5180	5.15	0.17	5.32	11.00	Pass
40	5200	5.17	0.17	5.34	11.00	Pass
48	5240	7.97	0.17	8.14	11.00	Pass
52	5260	8.25	0.17	8.42	11.00	Pass
60	5300	6.75	0.17	6.92	11.00	Pass
64	5320	5.19	0.17	5.36	11.00	Pass
100	5500	2.71	0.17	2.88	11.00	Pass
116	5580	8.00	0.17	8.17	11.00	Pass
140	5700	5.51	0.17	5.67	11.00	Pass
144	5720 (For U-NII-2C)	6.52	0.17	6.69	11.00	Pass

Note: 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)	PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
36	5180	3.78	0.15	3.93	11.00	Pass
40	5200	3.60	0.15	3.75	11.00	Pass
48	5240	6.21	0.15	6.36	11.00	Pass
52	5260	7.59	0.15	7.74	11.00	Pass
60	5300	5.04	0.15	5.19	11.00	Pass
64	5320	5.04	0.15	5.19	11.00	Pass
100	5500	3.16	0.15	3.31	11.00	Pass
116	5580	7.74	0.15	7.89	11.00	Pass
140	5700	6.15	0.15	6.30	11.00	Pass
144	5720 (For U-NII-2C)	7.37	0.15	7.52	11.00	Pass

Note: 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)	PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
38	5190	0.78	0.29	1.07	11.00	Pass
46	5230	3.27	0.29	3.56	11.00	Pass
54	5270	3.10	0.29	3.39	11.00	Pass
62	5310	0.97	0.29	1.26	11.00	Pass
102	5510	-0.17	0.29	0.12	11.00	Pass
110	5550	2.20	0.29	2.49	11.00	Pass
134	5670	3.09	0.29	3.38	11.00	Pass
142	5710 (For U-NII-2C)	3.74	0.29	4.03	11.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

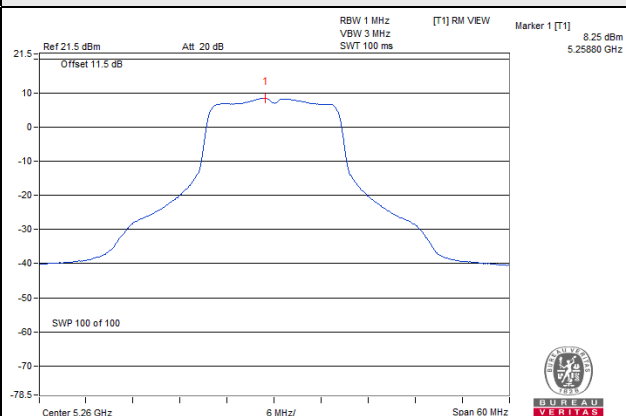
802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
42	5210	-4.01	0.66	-3.35	11.00	Pass
58	5290	-4.75	0.66	-4.09	11.00	Pass
106	5530	-5.68	0.66	-5.02	11.00	Pass
122	5610	-0.06	0.66	0.60	11.00	Pass
138	5690 (For U-NII-2C)	0.88	0.66	1.54	11.00	Pass

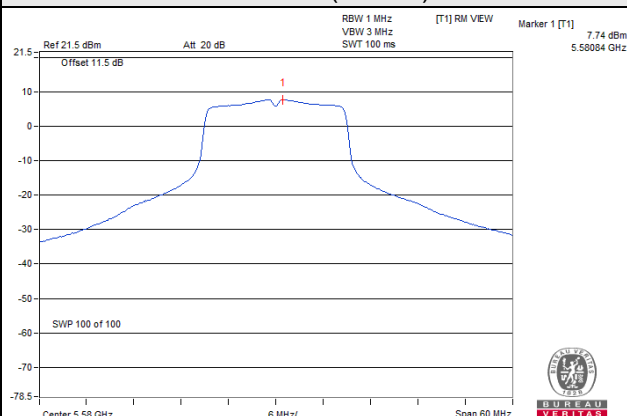
Note: Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

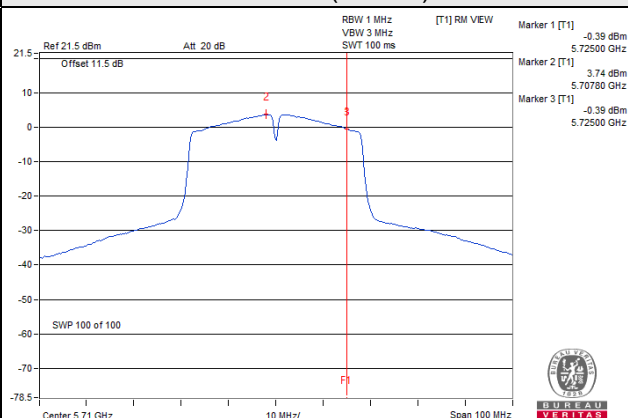
802.11a



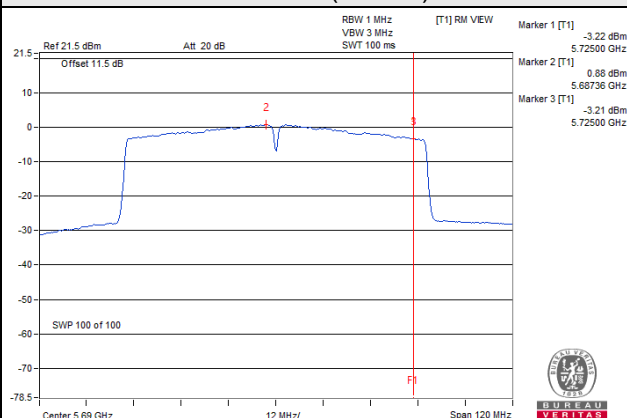
802.11ac (VHT20)



802.11ac (VHT40)



802.11ac (VHT80)



For U-NII-3 band:

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor		Duty Factor (dB)	Total PSD with Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
		(dBm/300kHz)	(dBm/500kHz)				
144	5720 (For U-NII-3)	-1.98	0.24	0.17	0.41	30.00	Pass
149	5745	0.87	3.09	0.17	3.26	30.00	Pass
157	5785	1.19	3.41	0.17	3.58	30.00	Pass
165	5825	1.12	3.34	0.17	3.51	30.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor		Duty Factor (dB)	Total PSD with Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
		(dBm/300kHz)	(dBm/500kHz)				
144	5720 (For U-NII-3)	-2.51	-0.29	0.15	-0.14	30.00	Pass
149	5745	-0.89	1.33	0.15	1.48	30.00	Pass
157	5785	-0.40	1.82	0.15	1.97	30.00	Pass
165	5825	-0.06	2.16	0.15	2.31	30.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor		Duty Factor (dB)	Total PSD with Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
		(dBm/300kHz)	(dBm/500kHz)				
142	5710 (For U-NII-3)	-8.91	-6.69	0.29	-6.40	30.00	Pass
151	5755	-4.22	-2.00	0.29	-1.71	30.00	Pass
159	5795	-4.48	-2.26	0.29	-1.97	30.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

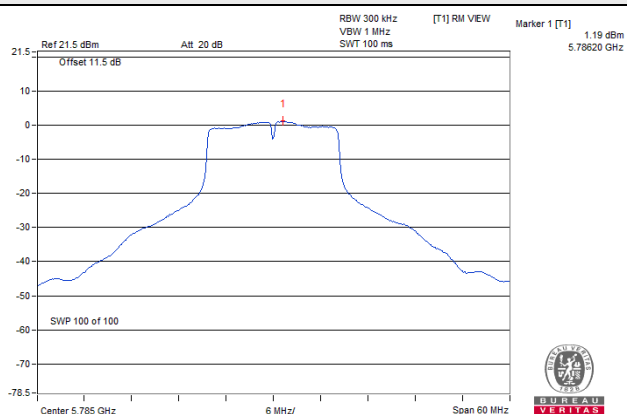
802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor		Duty Factor (dB)	Total PSD with Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
		(dBm/300kHz)	(dBm/500kHz)				
138	5690 (For U-NII-3)	-11.60	-9.38	0.66	-8.72	30.00	Pass
155	5775	-8.59	-6.37	0.66	-5.71	30.00	Pass

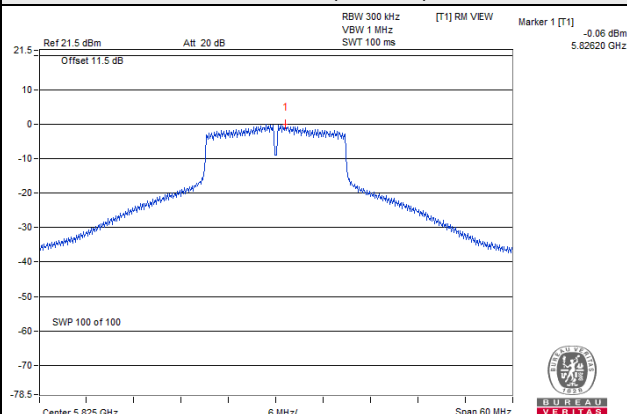
Note: Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

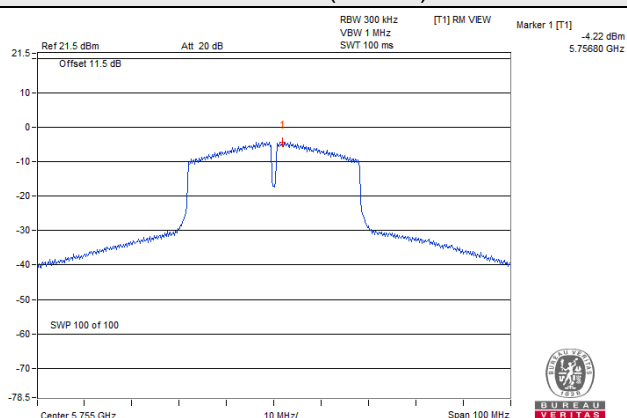
802.11a



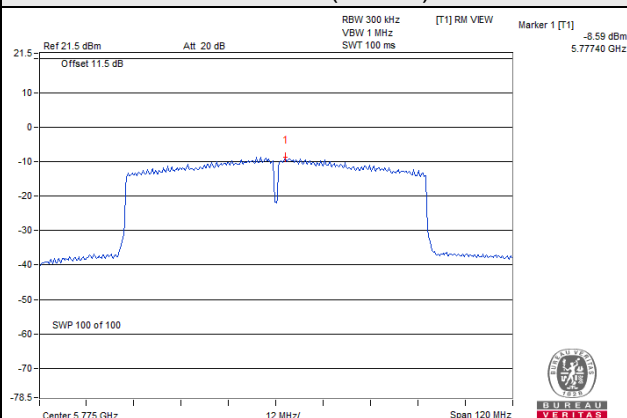
802.11ac (VHT20)



802.11ac (VHT40)



802.11ac (VHT80)



2TX (High Power)

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	2.56	2.12	0.14	5.50	9.49	Pass
40	5200	4.05	3.91	0.14	7.14	9.49	Pass
48	5240	5.04	5.08	0.14	8.22	9.49	Pass
52	5260	5.70	4.80	0.14	8.43	9.49	Pass
60	5300	5.12	4.12	0.14	7.80	9.49	Pass
64	5320	2.73	2.24	0.14	5.65	9.49	Pass
100	5500	0.15	0.06	0.14	3.26	9.49	Pass
116	5580	5.35	4.77	0.14	8.22	9.49	Pass
140	5700	4.60	4.84	0.14	7.88	9.49	Pass
144	5720 (For U-NII-2C)	4.05	3.51	0.14	6.94	9.49	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.
- Directional gain = $4.5\text{dBi} + 10\log(2) = 7.51\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.51 - 6) = 9.49\text{dBi}$.
- 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	2.54	2.63	0.15	5.74	9.49	Pass
40	5200	3.82	3.45	0.15	6.80	9.49	Pass
48	5240	4.88	4.24	0.15	7.73	9.49	Pass
52	5260	5.23	5.04	0.15	8.29	9.49	Pass
60	5300	3.39	3.05	0.15	6.38	9.49	Pass
64	5320	2.55	2.05	0.15	5.46	9.49	Pass
100	5500	2.46	1.40	0.15	5.12	9.49	Pass
116	5580	5.73	4.82	0.15	8.46	9.49	Pass
140	5700	4.25	3.62	0.15	7.10	9.49	Pass
144	5720 (For U-NII-2C)	4.77	3.94	0.15	7.53	9.49	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.
- Directional gain = $4.5\text{dBi} + 10\log(2) = 7.51\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.51 - 6) = 9.49\text{dBi}$.
- 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	-0.71	-1.21	0.34	2.40	9.49	Pass
46	5230	1.54	1.02	0.34	4.64	9.49	Pass
54	5270	0.92	0.87	0.34	4.25	9.49	Pass
62	5310	-1.54	-1.51	0.34	1.83	9.49	Pass
102	5510	-1.36	-1.93	0.34	1.71	9.49	Pass
110	5550	0.25	-0.70	0.34	3.15	9.49	Pass
134	5670	1.15	0.85	0.34	4.35	9.49	Pass
142	5710 (For U-NII-2C)	0.92	0.61	0.34	4.12	9.49	Pass

Note:

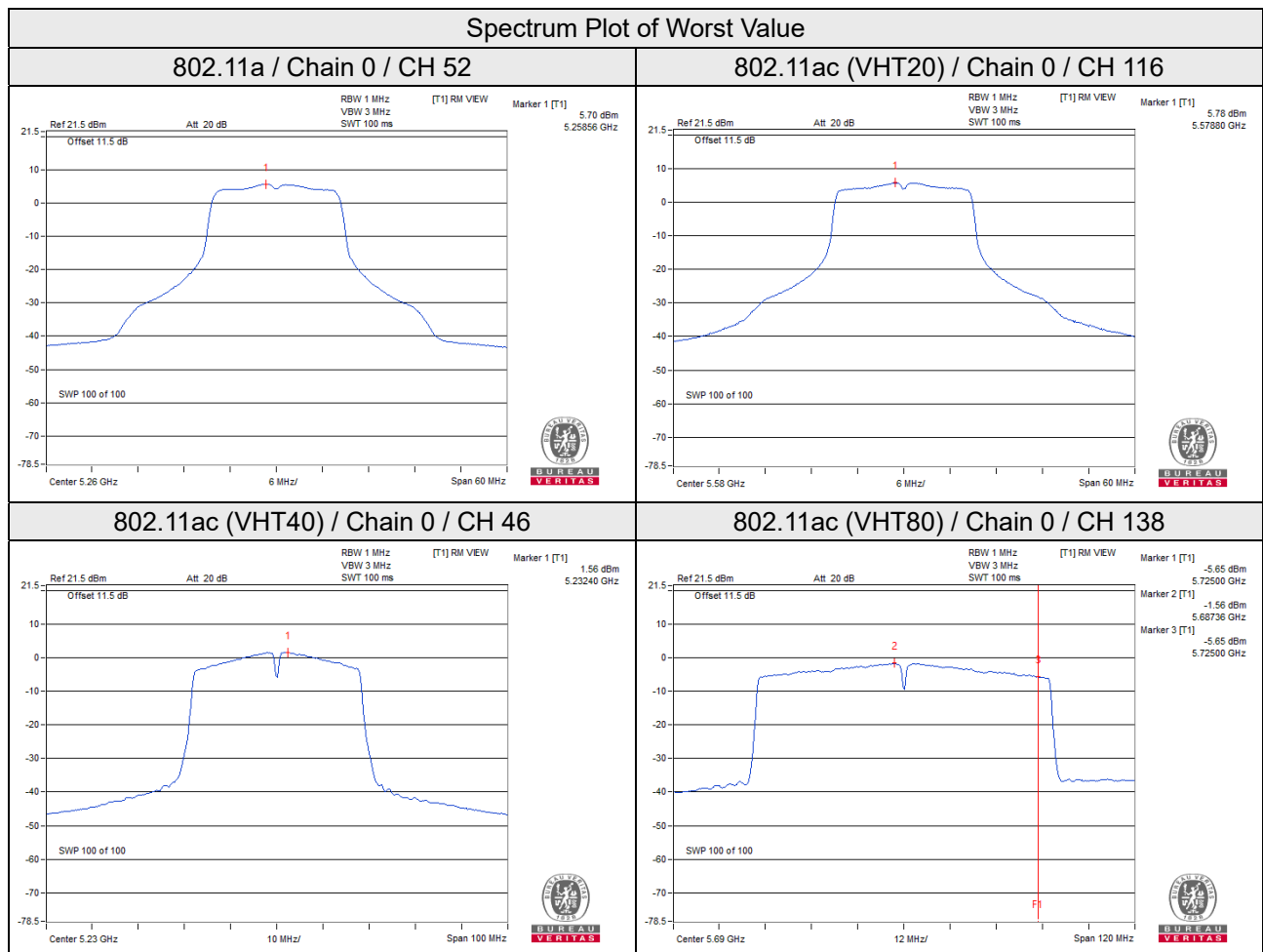
- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $4.5\text{dBi} + 10\log(2) = 7.51\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.51 - 6) = 9.49\text{dBi}$.
- 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	-6.96	-6.85	0.55	-3.34	9.49	Pass
58	5290	-6.84	-6.79	0.55	-3.25	9.49	Pass
106	5530	-7.84	-8.28	0.55	-4.49	9.49	Pass
122	5610	-2.74	-3.88	0.55	0.29	9.49	Pass
138	5690 (For U-NII-2C)	-1.56	-2.13	0.55	1.73	9.49	Pass

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $4.5\text{dBi} + 10\log(2) = 7.51\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11 - (7.51 - 6) = 9.49\text{dBi}$.
3. Refer to section 3.3 for duty cycle spectrum plot.



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	144	5720 (For U-NII-3)	-4.79	-2.57	3.01	0.14	0.58	28.49	Pass
	149	5745	-1.33	0.89	3.01	0.14	4.04	28.49	Pass
	157	5785	-0.95	1.27	3.01	0.14	4.42	28.49	Pass
	165	5825	-1.12	1.10	3.01	0.14	4.25	28.49	Pass
1	144	5720 (For U-NII-3)	-4.77	-2.55	3.01	0.14	0.60	28.49	Pass
	149	5745	-2.38	-0.16	3.01	0.14	2.99	28.49	Pass
	157	5785	-2.55	-0.33	3.01	0.14	2.82	28.49	Pass
	165	5825	-2.21	0.01	3.01	0.14	3.16	28.49	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure value and add 10 log (N_{ANT}) dB.
2. Directional gain = 4.5dBi + 10log(2) = 7.51dBi > 6dBi, so the power density limit shall be reduced to 30 - (7.51 - 6) = 28.49dBi.
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	144	5720 (For U-NII-3)	-5.18	-2.96	3.01	0.15	0.20	28.49	Pass
	149	5745	-2.77	-0.55	3.01	0.15	2.61	28.49	Pass
	157	5785	-2.71	-0.49	3.01	0.15	2.67	28.49	Pass
	165	5825	-2.28	-0.06	3.01	0.15	3.10	28.49	Pass
1	144	5720 (For U-NII-3)	-5.96	-3.74	3.01	0.15	-0.58	28.49	Pass
	149	5745	-3.06	-0.84	3.01	0.15	2.32	28.49	Pass
	157	5785	-3.38	-1.16	3.01	0.15	2.00	28.49	Pass
	165	5825	-3.05	-0.83	3.01	0.15	2.33	28.49	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure value and add 10 log (N_{ANT}) dB.
2. Directional gain = 4.5dBi + 10log(2) = 7.51dBi > 6dBi, so the power density limit shall be reduced to 30 - (7.51 - 6) = 28.49dBi.
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	142	5710 (For U-NII-3)	-12.19	-9.97	3.01	0.34	-6.62	28.49	Pass
	151	5755	-5.85	-3.63	3.01	0.34	-0.28	28.49	Pass
	159	5795	-5.53	-3.31	3.01	0.34	0.04	28.49	Pass
1	142	5710 (For U-NII-3)	-12.46	-10.24	3.01	0.34	-6.89	28.49	Pass
	151	5755	-7.08	-4.86	3.01	0.34	-1.51	28.49	Pass
	159	5795	-7.15	-4.93	3.01	0.34	-1.58	28.49	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure value and add $10 \log (N_{ANT})$ dB.
- Directional gain = $4.5\text{dBi} + 10\log(2) = 7.51\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (7.51 - 6) = 28.49\text{dBi}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

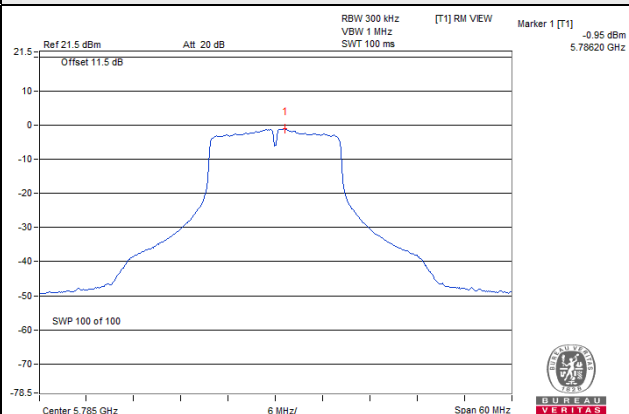
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	138	5690 (For U-NII-3)	-14.28	-12.06	3.01	0.55	-8.50	28.49	Pass
	155	5775	-10.89	-8.67	3.01	0.55	-5.11	28.49	Pass
1	138	5690 (For U-NII-3)	-14.87	-12.65	3.01	0.55	-9.09	28.49	Pass
	155	5775	-11.63	-9.41	3.01	0.55	-5.85	28.49	Pass

Note:

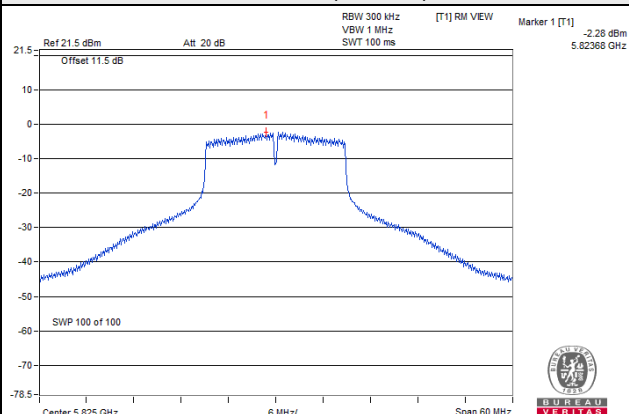
- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure value and add $10 \log (N_{ANT})$ dB.
- Directional gain = $4.5\text{dBi} + 10\log(2) = 7.51\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (7.51 - 6) = 28.49\text{dBi}$.
- Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

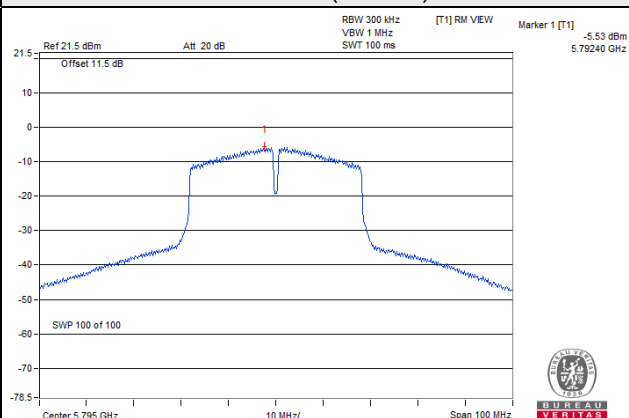
802.11a



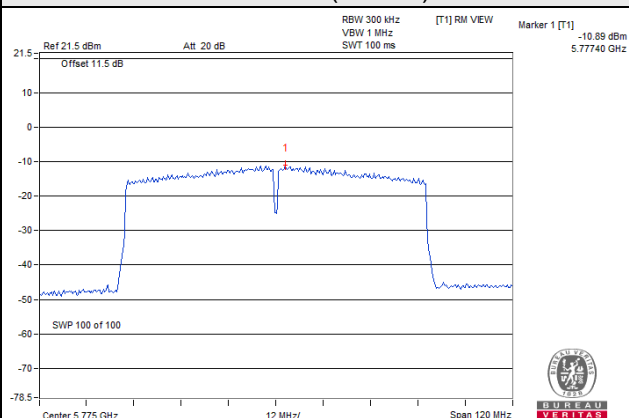
802.11ac (VHT20)



802.11ac (VHT40)



802.11ac (VHT80)

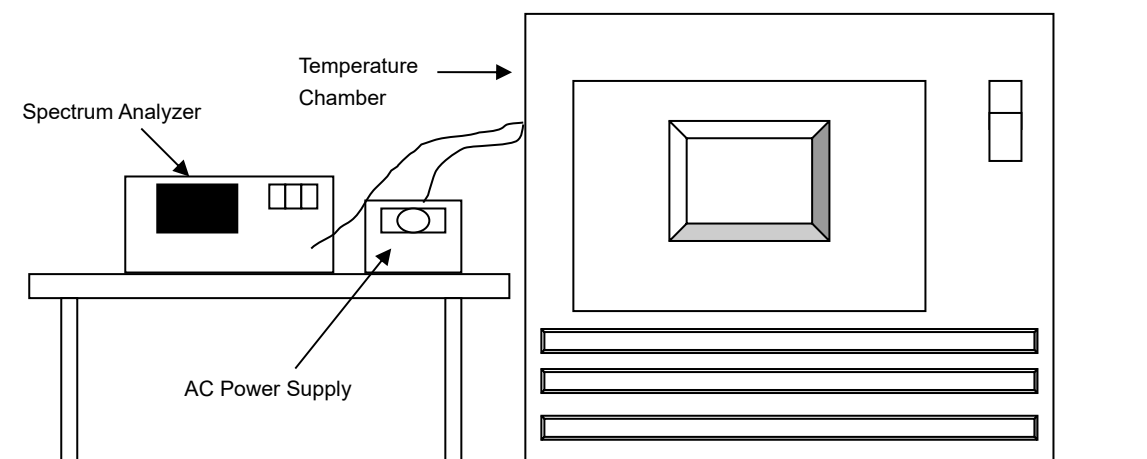


4.6 Frequency Stability

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	100040	Sep. 15, 2021	Sep. 14, 2022
Temperature & Humidity Chamber TERCHY	HRM-120RF	931022	Dec. 24, 2020	Dec. 23, 2021
Digital Multimeter Fluke	87-III	70360742	Jun. 24, 2021	Jun. 23, 2022
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.

2. Test Date: Oct. 12, 2021

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 d with every 10 degrees reduction until the lowest temperature achieved.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

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

4.6.7 Test Results

1TX (High Power)

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
40	120	5180.0013	Pass	5180.0059	Pass	5180.0063	Pass	5180.0017	Pass
30	120	5180.0102	Pass	5180.0107	Pass	5180.0117	Pass	5180.0112	Pass
20	120	5179.9931	Pass	5179.9912	Pass	5179.9903	Pass	5179.9931	Pass
10	120	5179.9928	Pass	5179.9917	Pass	5179.9956	Pass	5179.9943	Pass
0	120	5180.023	Pass	5180.0201	Pass	5180.0203	Pass	5180.018	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	5179.9925	Pass	5179.9911	Pass	5179.9897	Pass	5179.9924	Pass
	120	5179.9931	Pass	5179.9912	Pass	5179.9903	Pass	5179.9931	Pass
	102	5179.9922	Pass	5179.9906	Pass	5179.9904	Pass	5179.9926	Pass

2TX (High Power)

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
40	120	5179.9891	Pass	5179.9919	Pass	5179.9872	Pass	5179.9884	Pass
30	120	5180.0208	Pass	5180.0215	Pass	5180.023	Pass	5180.0233	Pass
20	120	5180.0102	Pass	5180.011	Pass	5180.0093	Pass	5180.0131	Pass
10	120	5180.0213	Pass	5180.0192	Pass	5180.0194	Pass	5180.0187	Pass
0	120	5180.0078	Pass	5180.006	Pass	5180.0078	Pass	5180.0069	Pass

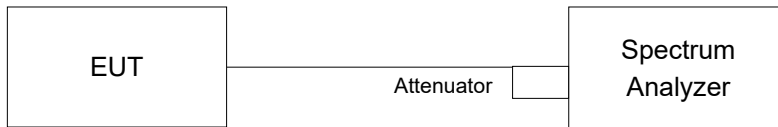
Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5180.0097	Pass	5180.0118	Pass	5180.0099	Pass	5180.0128	Pass
	120	5180.0102	Pass	5180.011	Pass	5180.0093	Pass	5180.0131	Pass
	102	5180.0109	Pass	5180.0116	Pass	5180.0099	Pass	5180.0136	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

1TX (High Power)

802.11a

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
144	5720 (For U-NII-3)	3.08	0.50	Pass
149	5745	16.34	0.50	Pass
157	5785	16.37	0.50	Pass
165	5825	16.37	0.50	Pass

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

802.11ac (VHT20)

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
144	5720 (For U-NII-3)	3.49	0.50	Pass
149	5745	16.98	0.50	Pass
157	5785	16.96	0.50	Pass
165	5825	17.30	0.50	Pass

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

802.11ac (VHT40)

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
142	5710 (For U-NII-3)	2.52	0.50	Pass
151	5755	35.15	0.50	Pass
159	5795	35.13	0.50	Pass

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

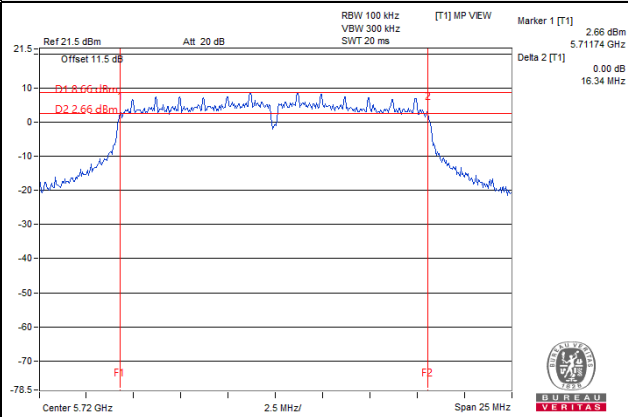
802.11ac (VHT80)

Chan.	Freq. (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
138	5690 (For U-NII-3)	2.68	0.50	Pass
155	5775	75.36	0.50	Pass

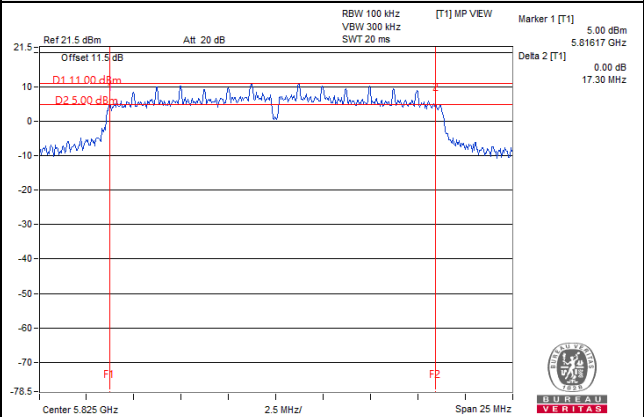
For CH138 (UNII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

Spectrum Plot of Worst Value

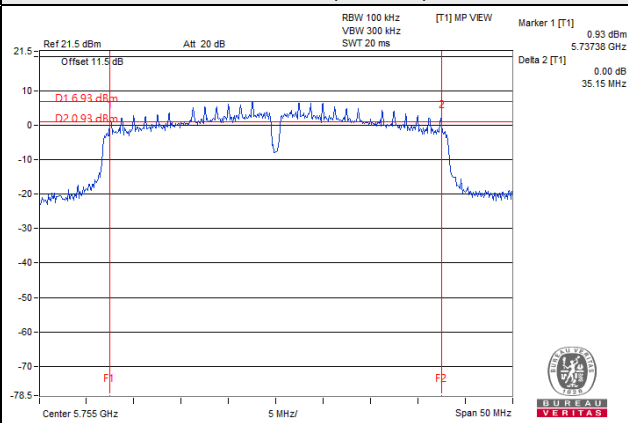
802.11a



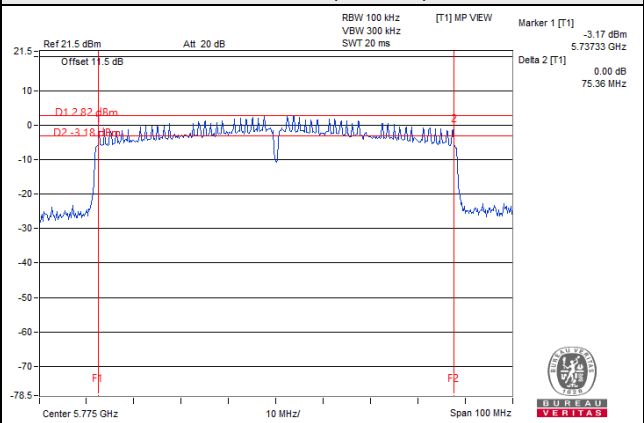
802.11ac (VHT20)



802.11ac (VHT40)



802.11ac (VHT80)



2TX (High Power)

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144	5720 (For U-NII-3)	3.10	3.11	0.50	Pass
149	5745	16.07	16.35	0.50	Pass
157	5785	16.06	16.36	0.50	Pass
165	5825	15.71	16.34	0.50	Pass

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

802.11ac (VHT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144	5720 (For U-NII-3)	3.45	3.48	0.50	Pass
149	5745	17.07	17.32	0.50	Pass
157	5785	17.11	17.08	0.50	Pass
165	5825	16.94	17.07	0.50	Pass

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

802.11ac (VHT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
142	5710 (For U-NII-3)	2.52	2.53	0.50	Pass
151	5755	35.16	35.15	0.50	Pass
159	5795	35.15	35.14	0.50	Pass

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

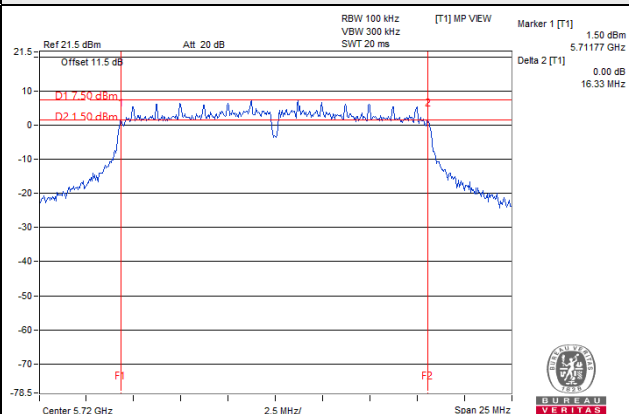
802.11ac (VHT80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
138	5690 (For U-NII-3)	2.67	2.67	0.50	Pass
155	5775	75.33	75.40	0.50	Pass

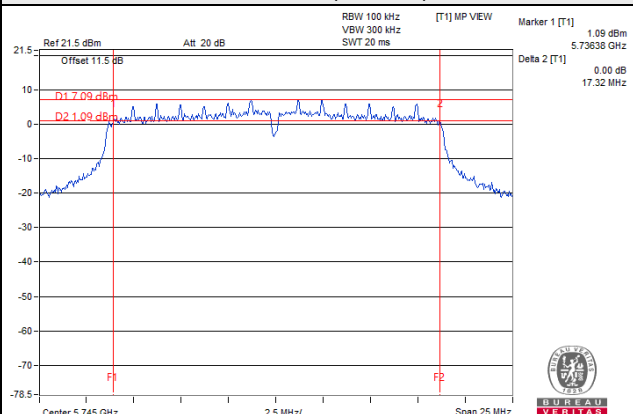
For CH138 (UNII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

Spectrum Plot of Worst Value

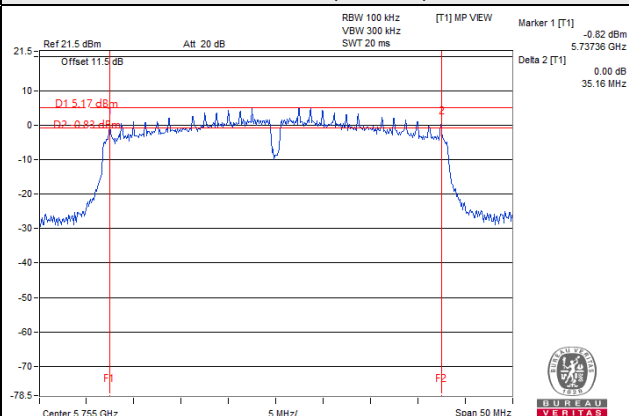
802.11a



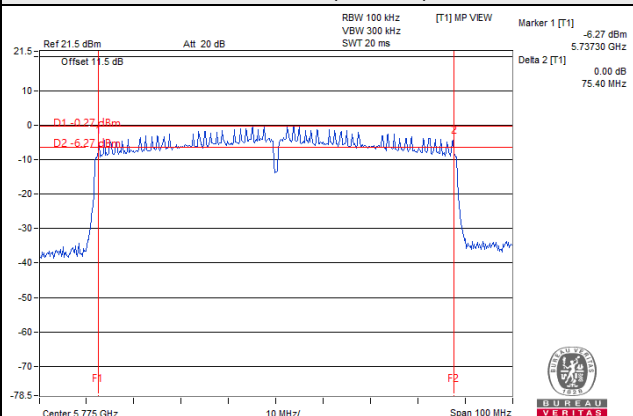
802.11ac (VHT20)



802.11ac (VHT40)



802.11ac (VHT80)

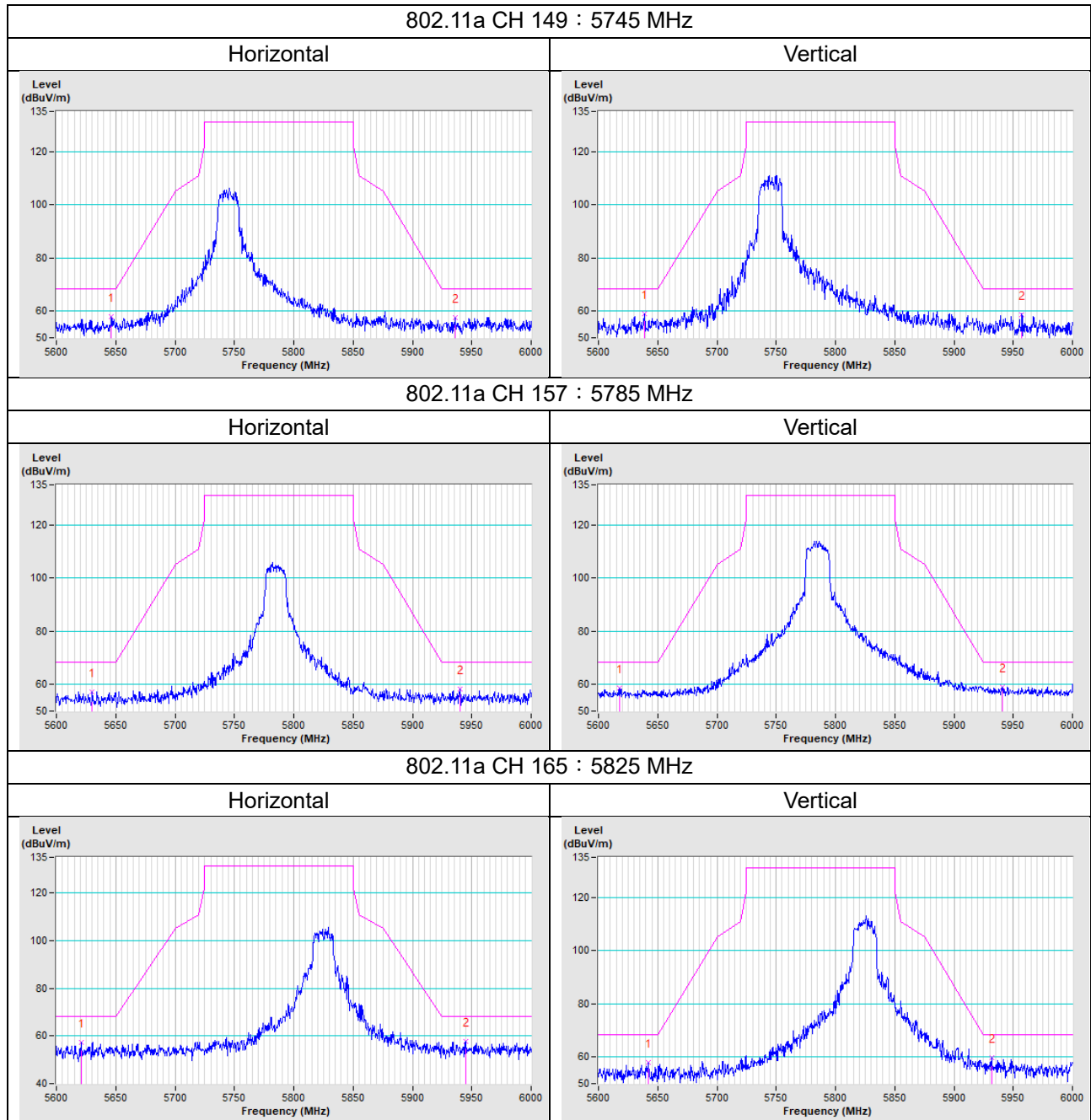


5 Pictures of Test Arrangements

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

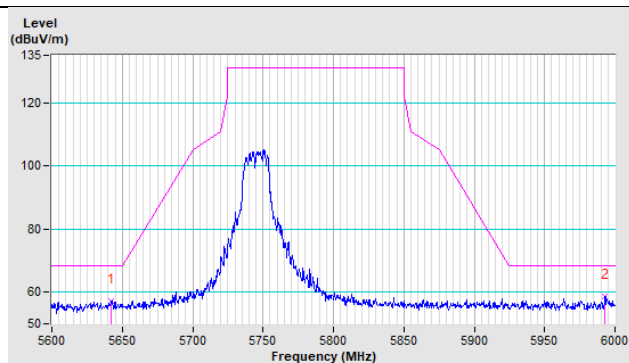
Annex A - Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

1TX (High Power)

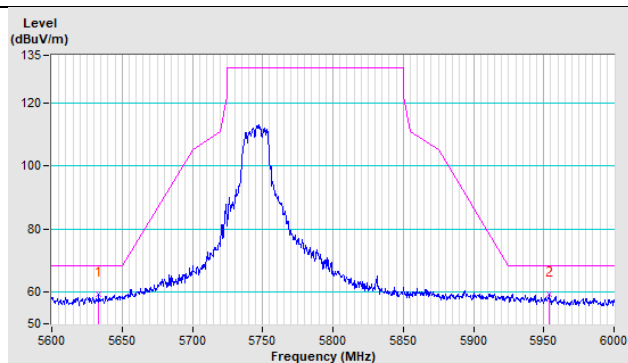


802.11ac (VHT20) CH 149 : 5745 MHz

Vertical

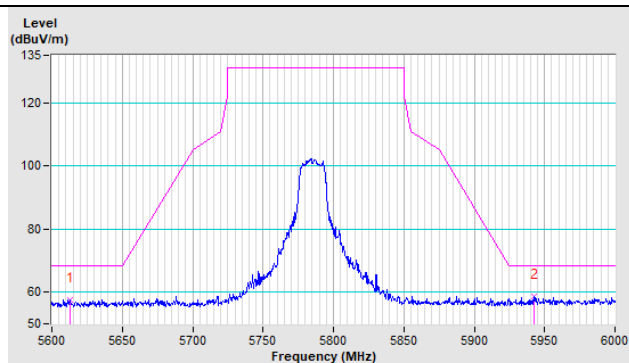


Horizontal

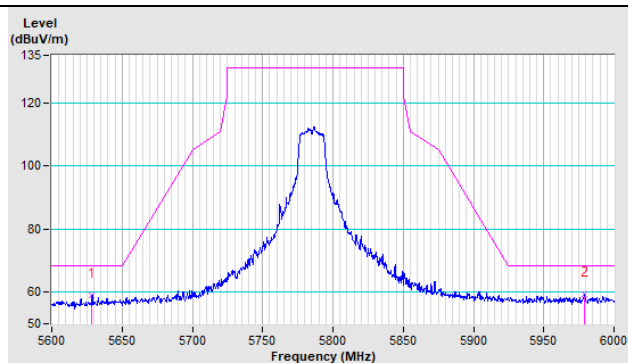


802.11ac (VHT20) CH 157 : 5785 MHz

Horizontal

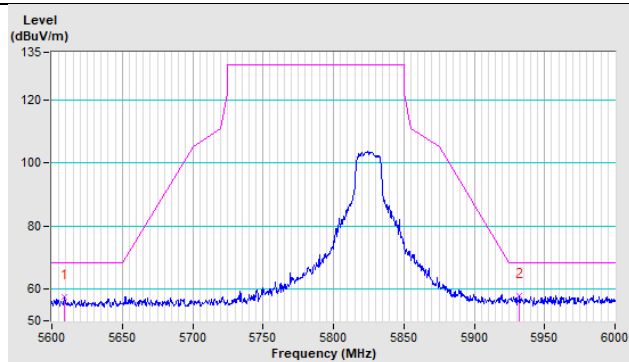


Vertical

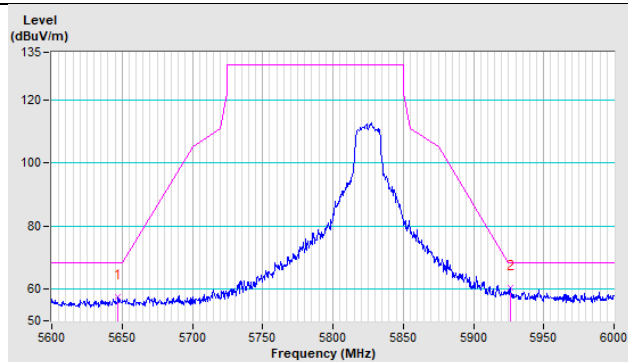


802.11ac (VHT20) CH 165 : 5825 MHz

Horizontal

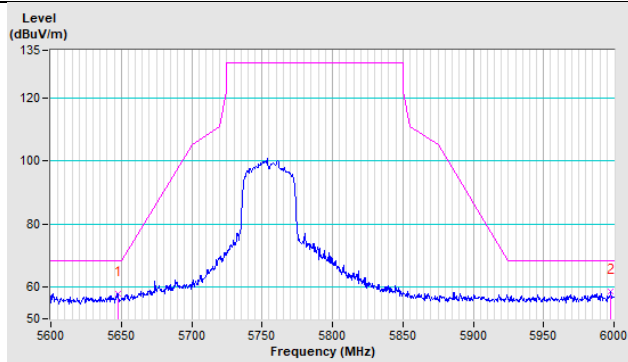


Vertical

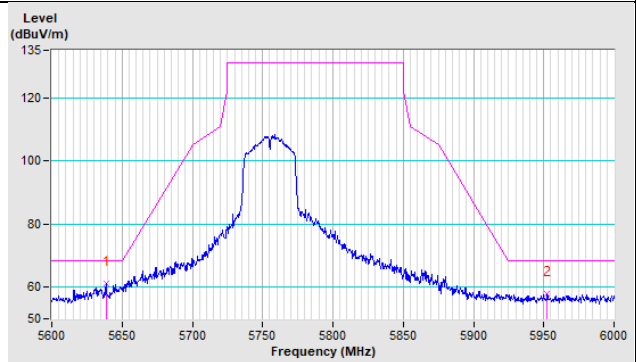


802.11ac (VHT40) CH 151 : 5755 MHz

Horizontal

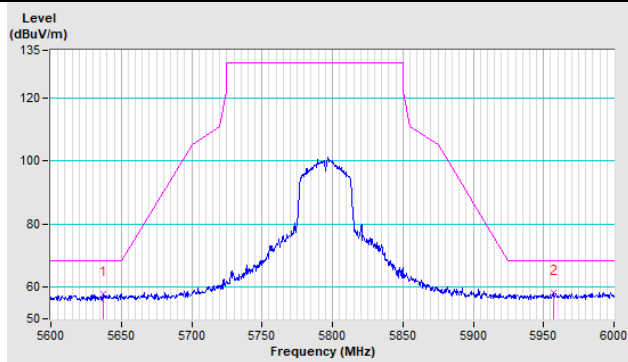


Vertical

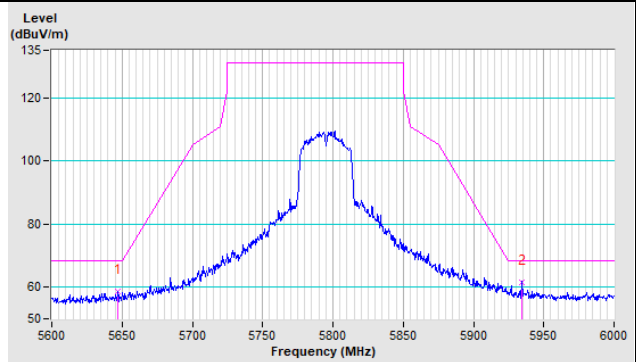


802.11ac (VHT40) CH 159 : 5795 MHz

Horizontal

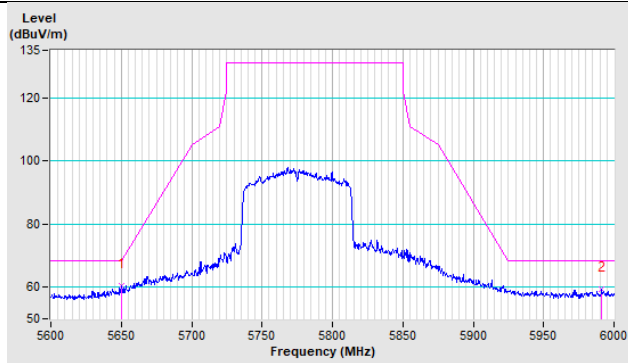


Vertical

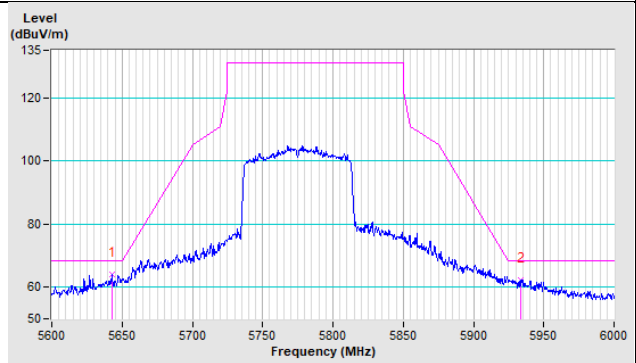


802.11ac (VHT80) CH 155 : 5775 MHz

Horizontal



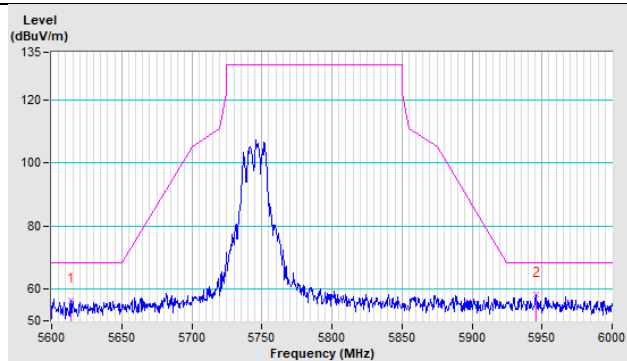
Vertical



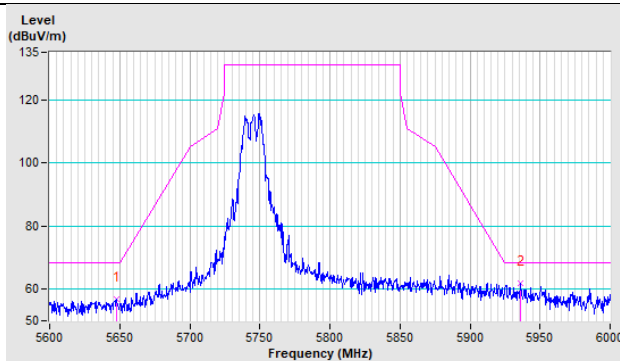
2TX (High Power)

802.11a CH 149 : 5745 MHz

Horizontal

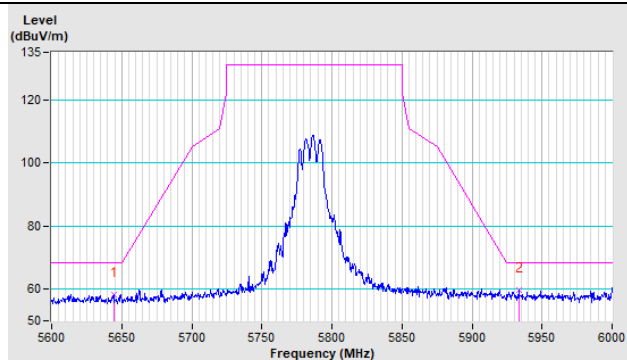


Vertical

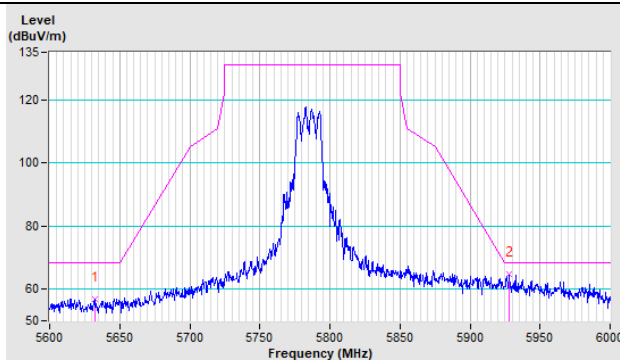


802.11a CH 157 : 5785 MHz

Horizontal

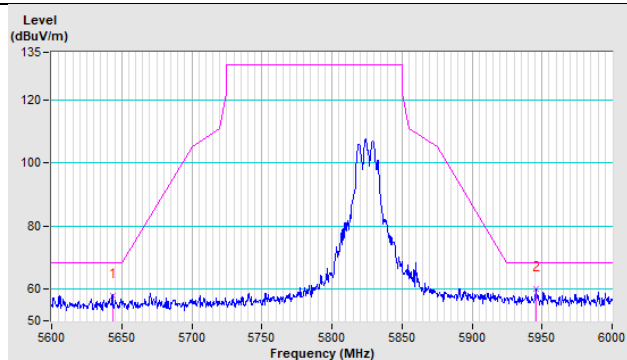


Vertical

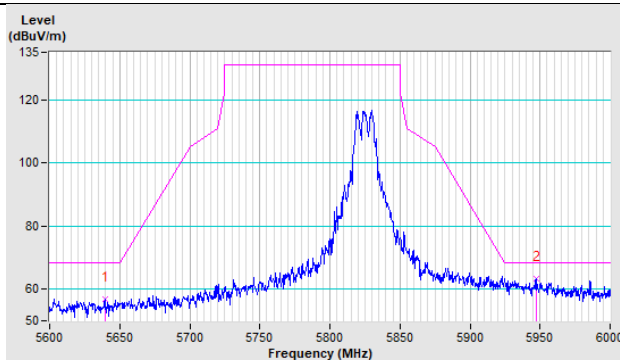


802.11a CH 165 : 5825 MHz

Horizontal

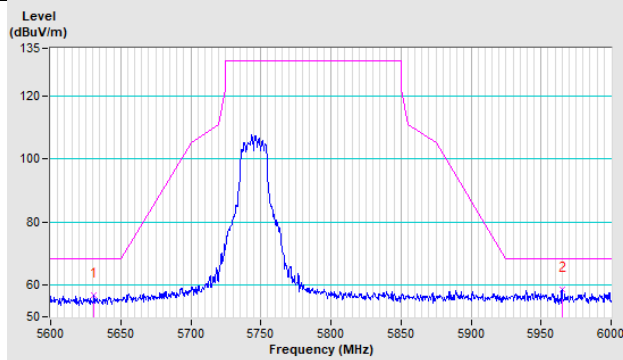


Vertical

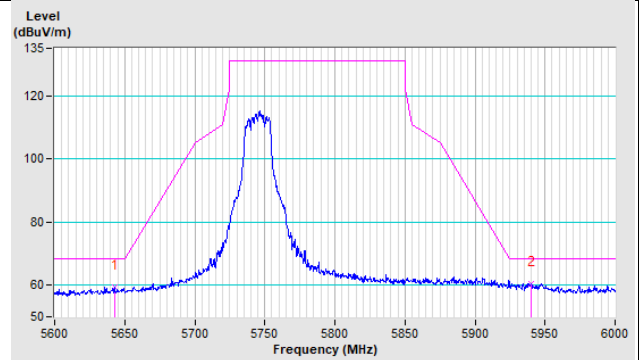


802.11ac (VHT20) CH 149 : 5745 MHz

Horizontal

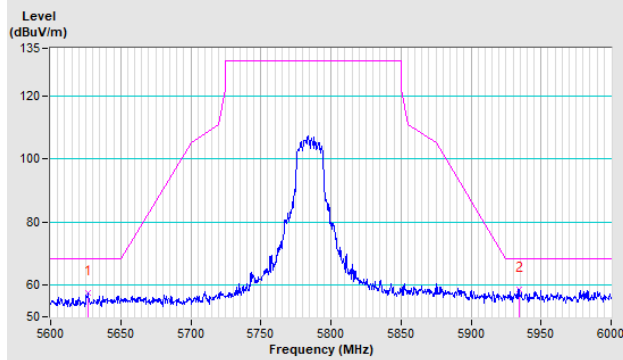


Vertical

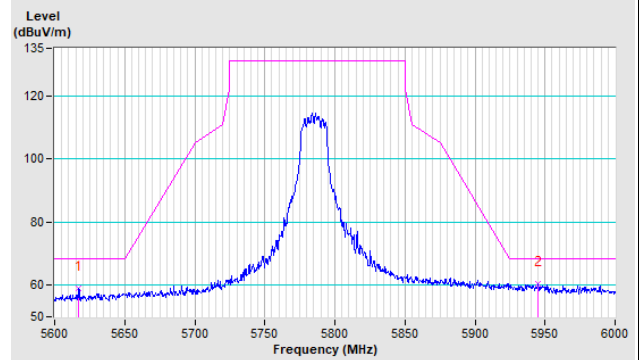


802.11ac (VHT20) CH 157 : 5785 MHz

Horizontal

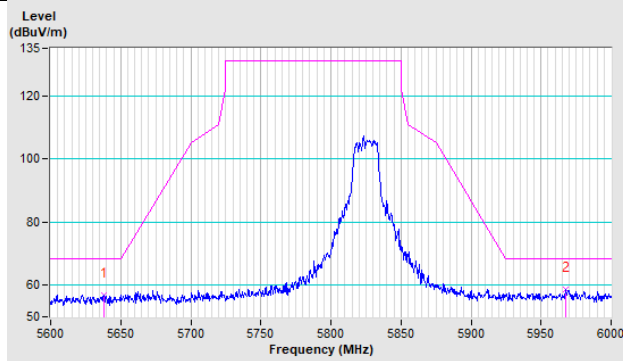


Vertical

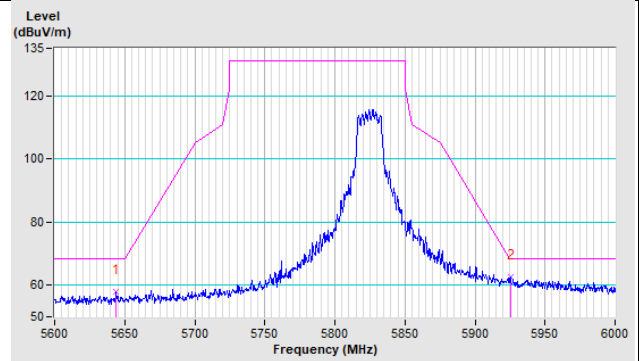


802.11ac (VHT20) CH 165 : 5825 MHz

Horizontal

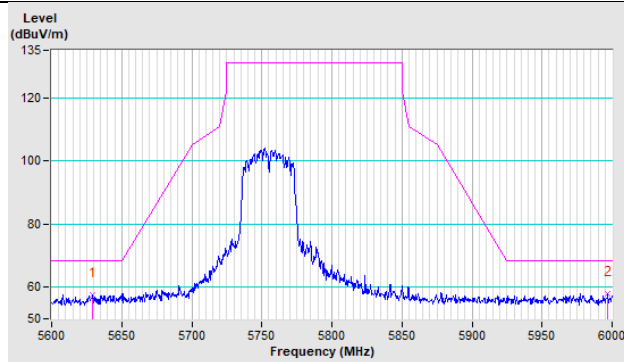


Vertical

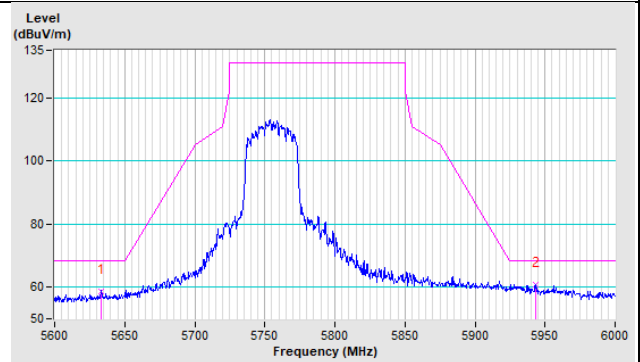


802.11ac (VHT40) CH 151 : 5755 MHz

Horizontal

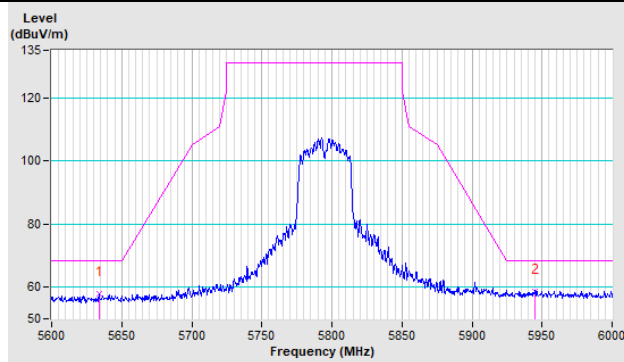


Vertical

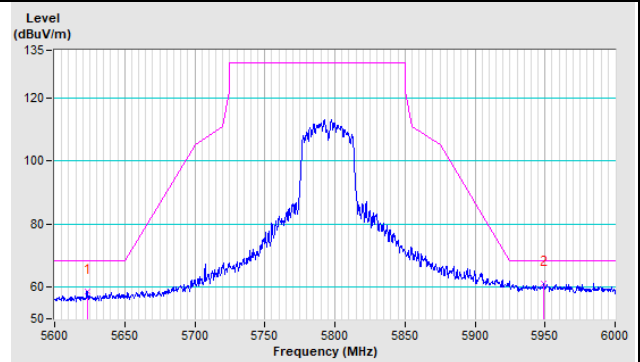


802.11ac (VHT40) CH 159 : 5795 MHz

Horizontal

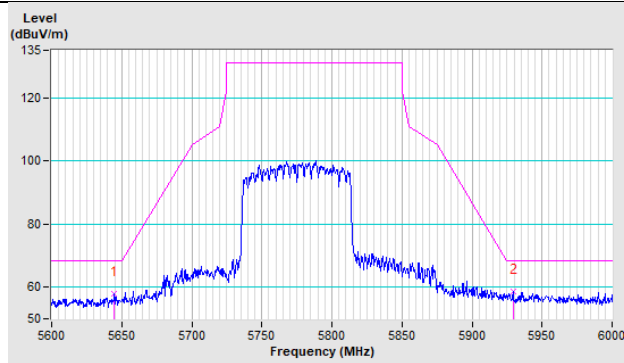


Vertical

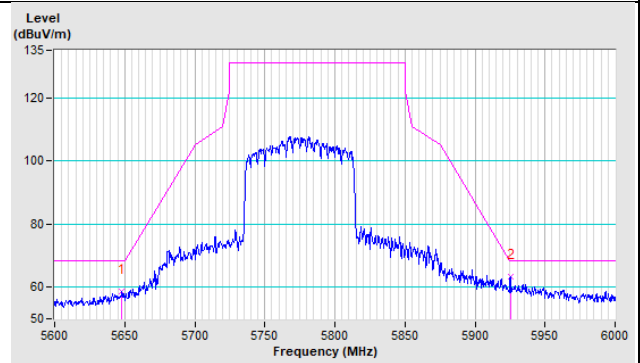


802.11ac (VHT80) CH 155 : 5775 MHz

Horizontal

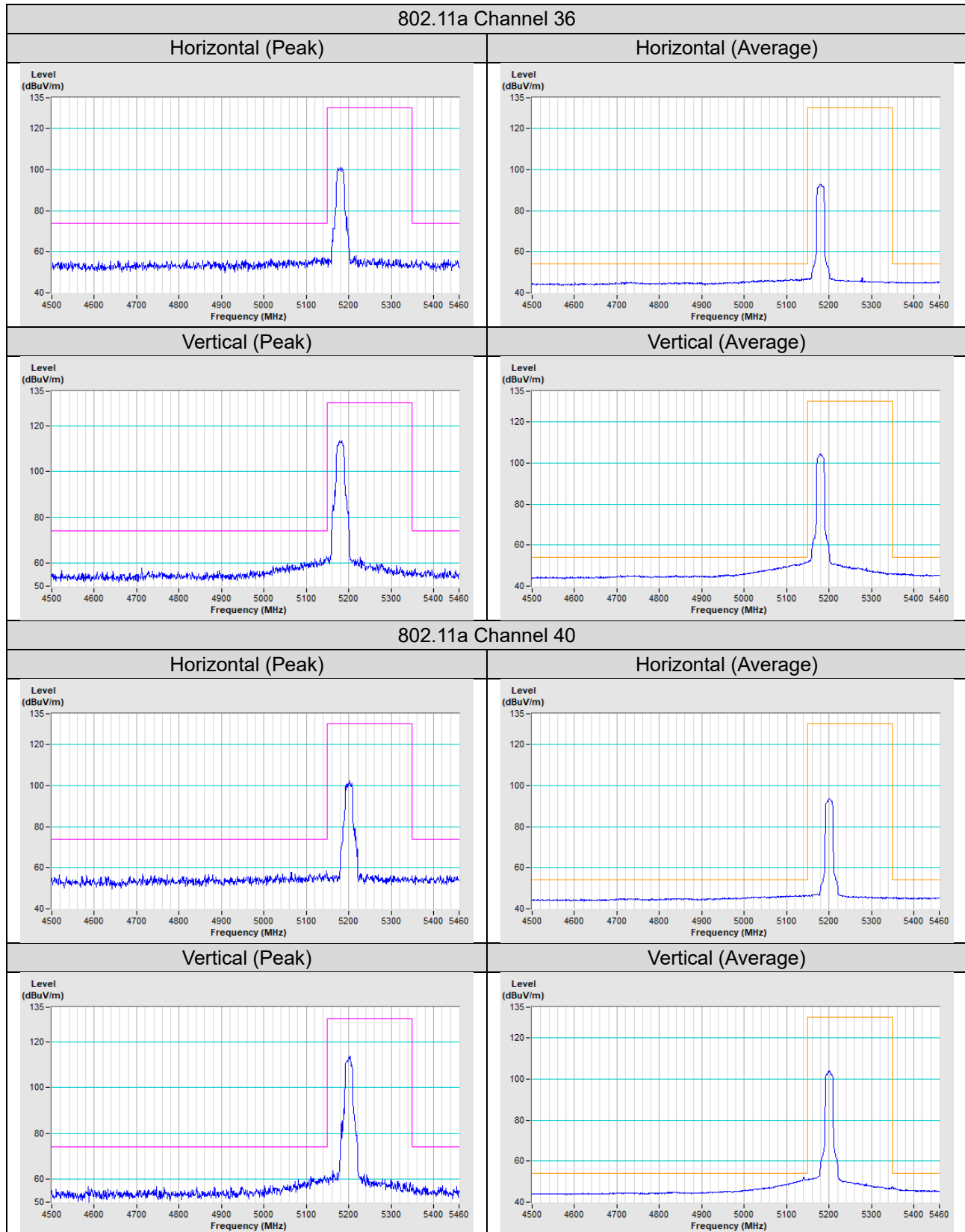


Vertical



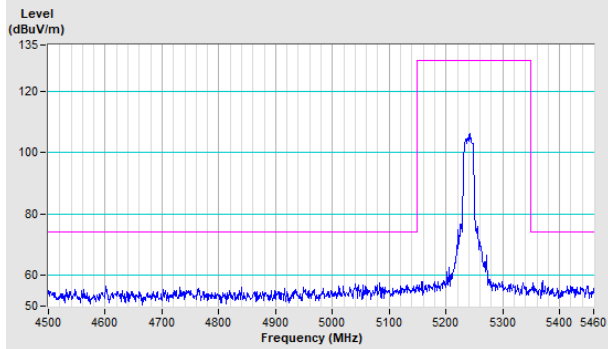
Annex B - Band Edge Measurement

1TX (High Power)

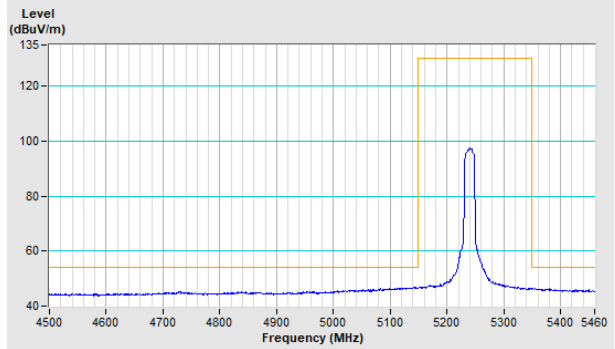


802.11a Channel 48

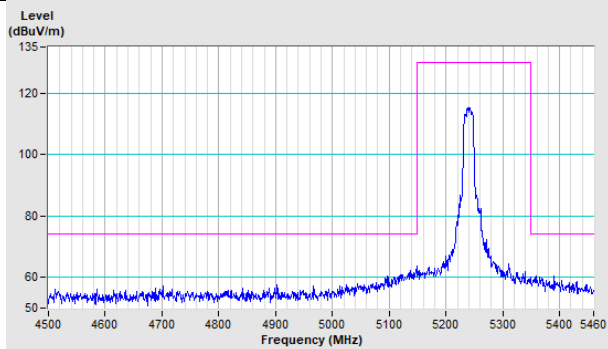
Horizontal (Peak)



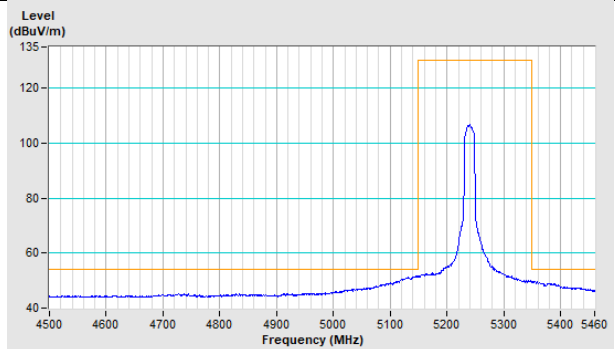
Horizontal (Average)



Vertical (Peak)

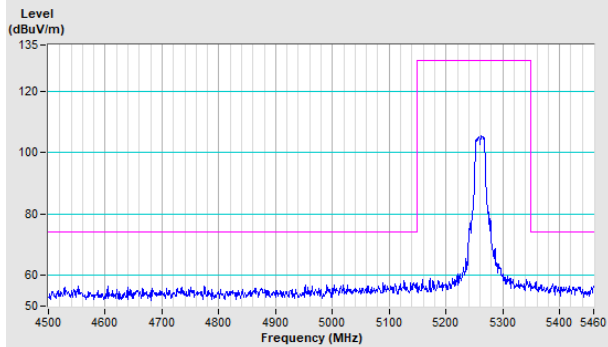


Vertical (Average)

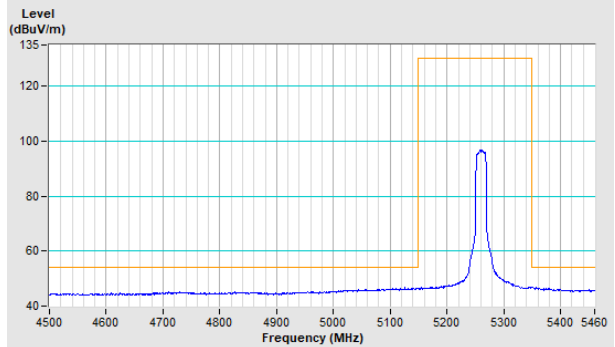


802.11a Channel 52

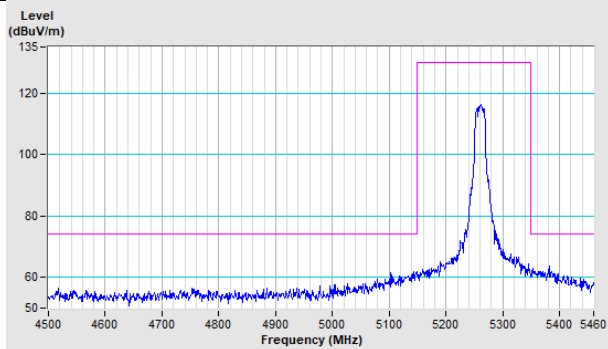
Horizontal (Peak)



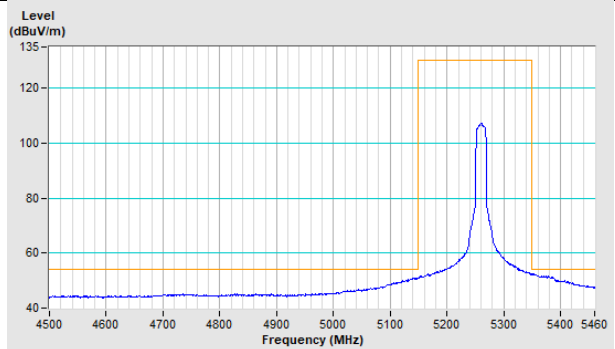
Horizontal (Average)



Vertical (Peak)

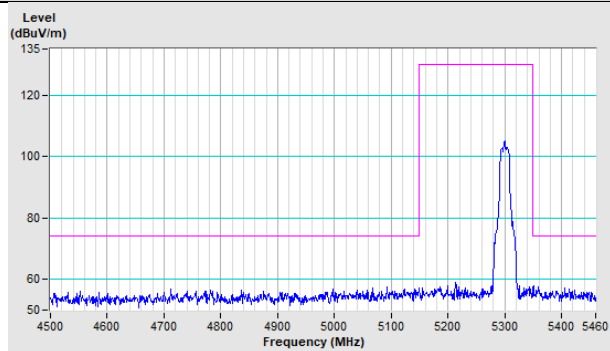


Vertical (Average)

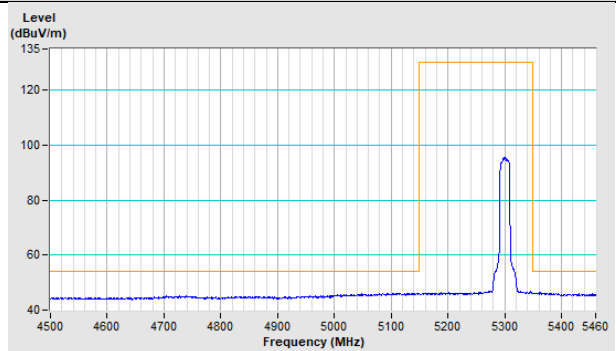


802.11a Channel 60

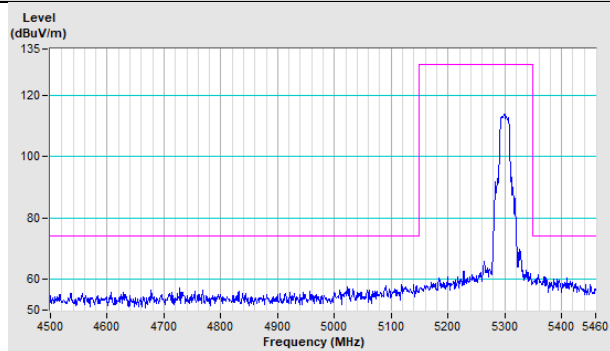
Horizontal (Peak)



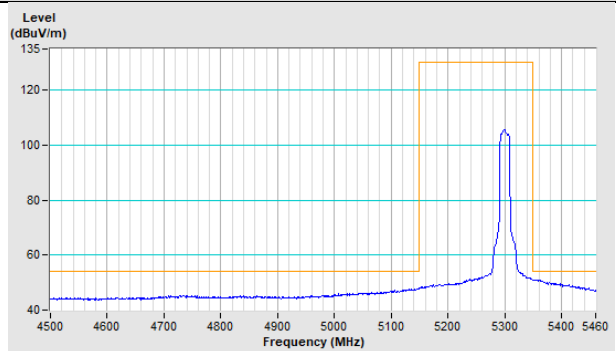
Horizontal (Average)



Vertical (Peak)

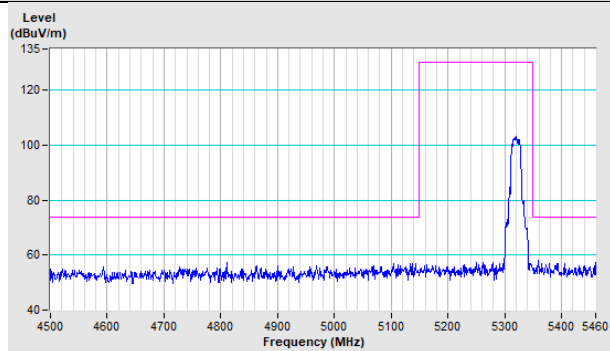


Vertical (Average)

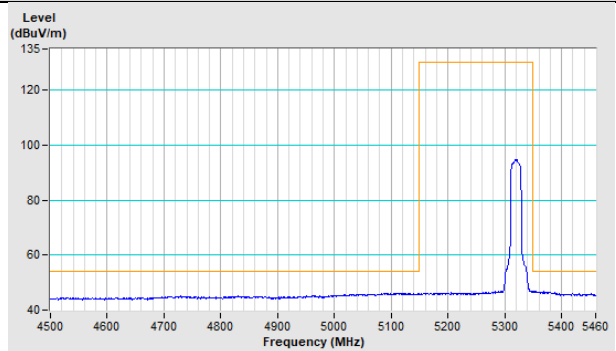


802.11a Channel 64

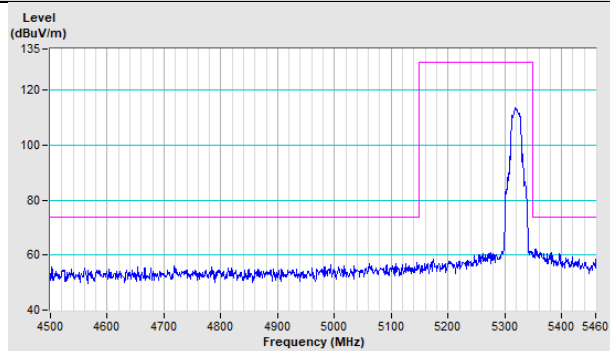
Horizontal (Peak)



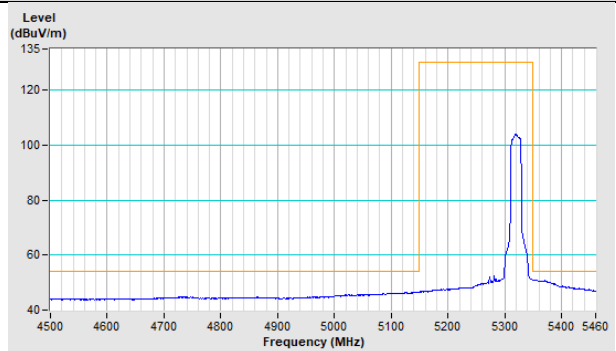
Horizontal (Average)



Vertical (Peak)

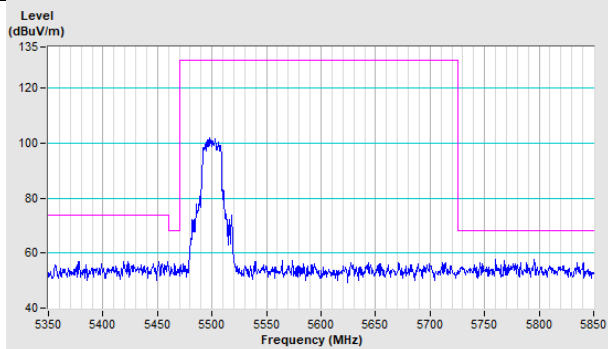


Vertical (Average)

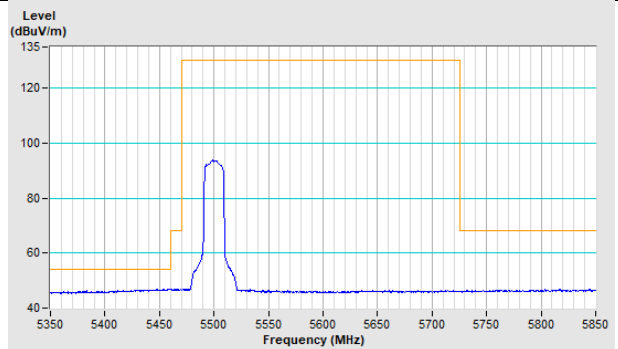


802.11a Channel 100

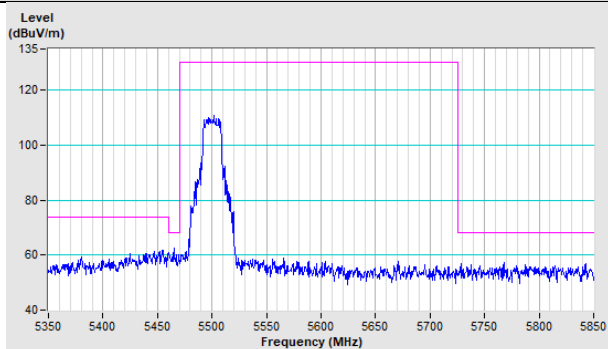
Horizontal (Peak)



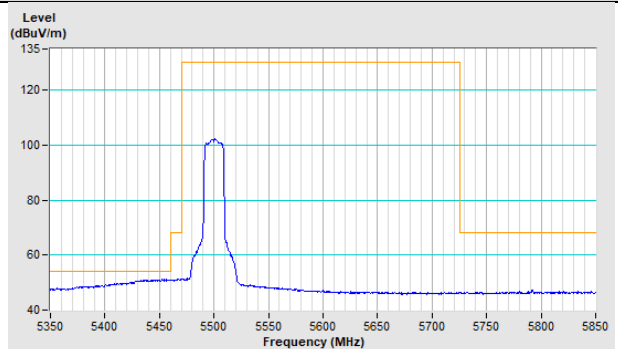
Horizontal (Average)



Vertical (Peak)

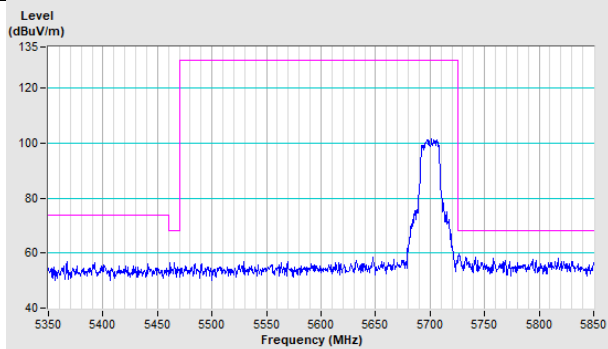


Vertical (Average)

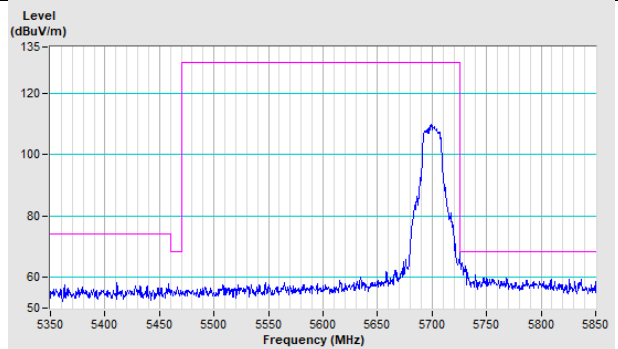


802.11a Channel 140

Horizontal (Peak)

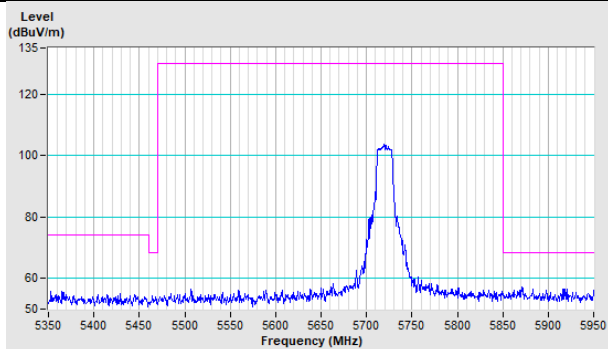


Vertical (Peak)

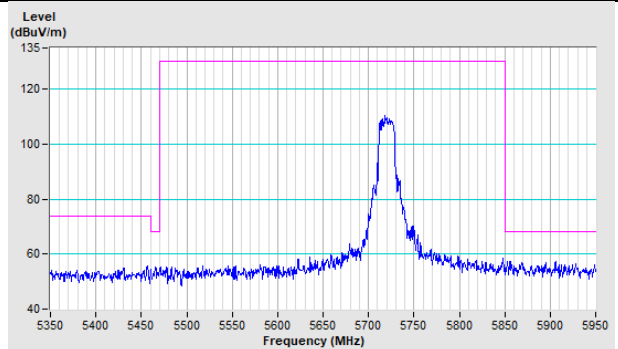


802.11a Channel 144

Horizontal (Peak)

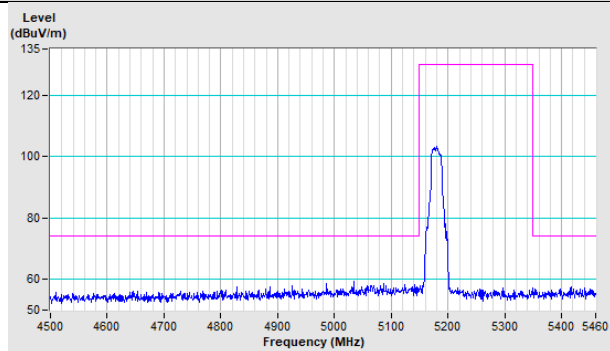


Vertical (Peak)

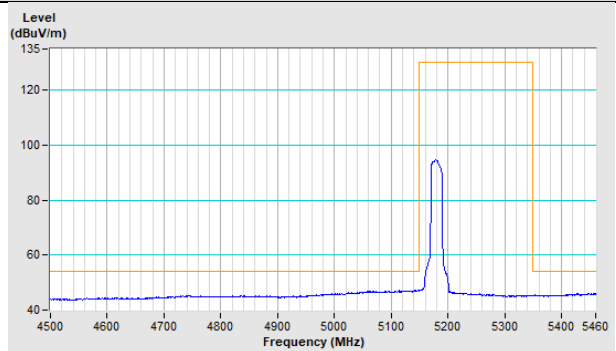


802.11ac (VHT20) Channel 36

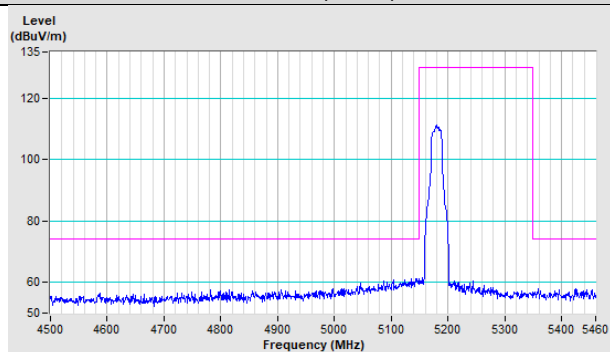
Horizontal (Peak)



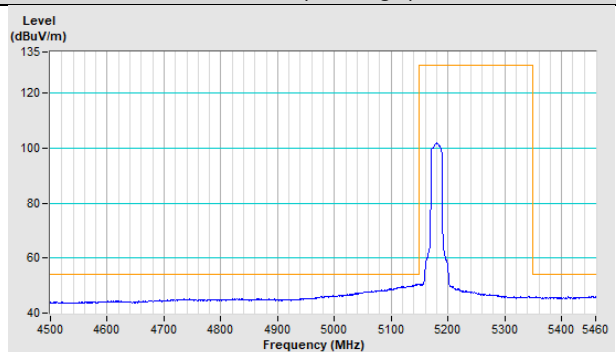
Horizontal (Average)



Vertical (Peak)

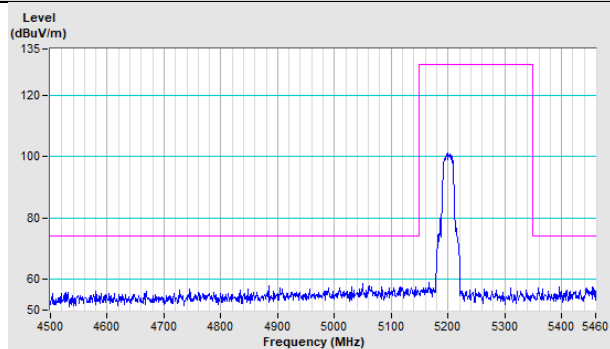


Vertical (Average)

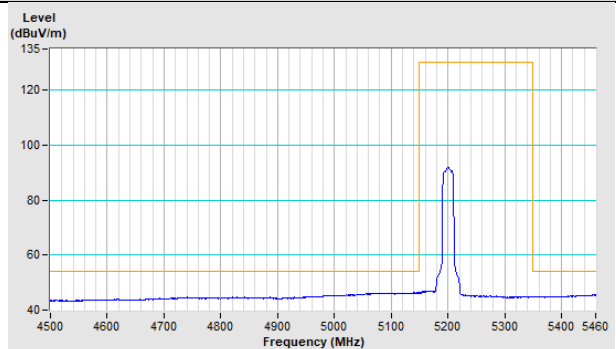


802.11ac (VHT20) Channel 40

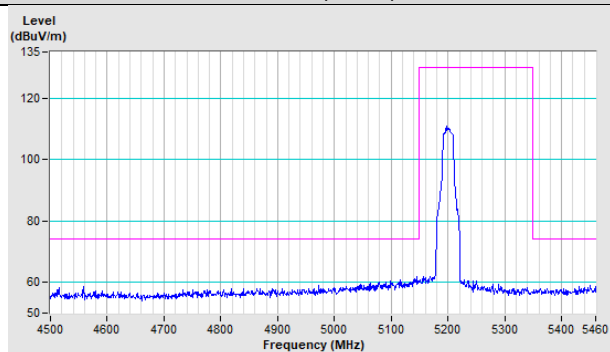
Horizontal (Peak)



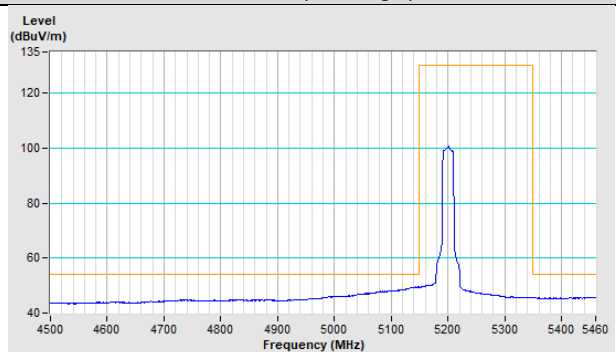
Horizontal (Average)



Vertical (Peak)

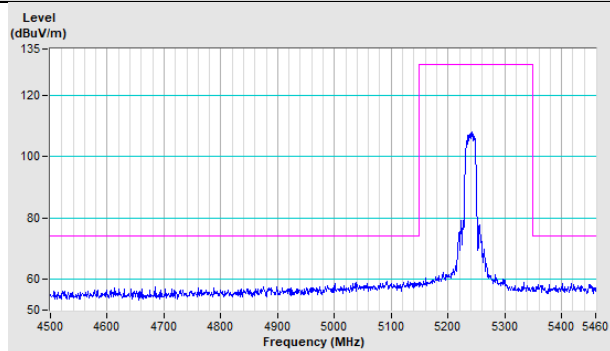


Vertical (Average)

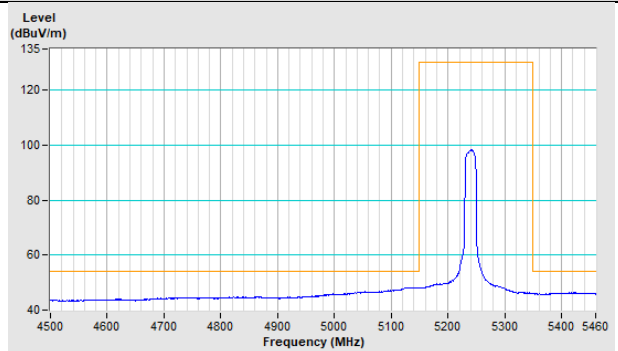


802.11ac (VHT20) Channel 48

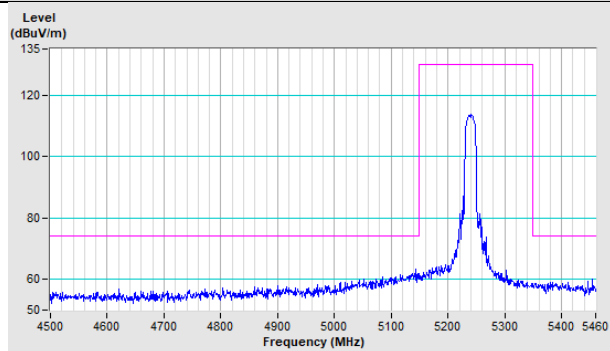
Horizontal (Peak)



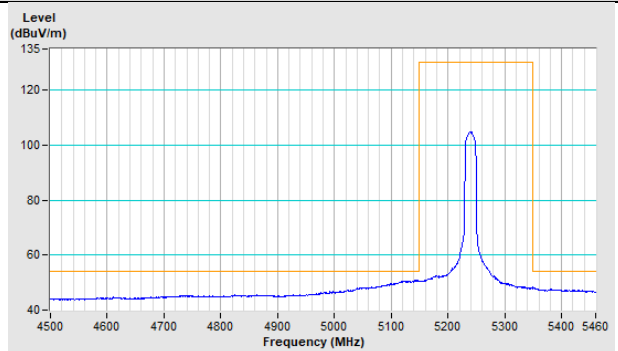
Horizontal (Average)



Vertical (Peak)

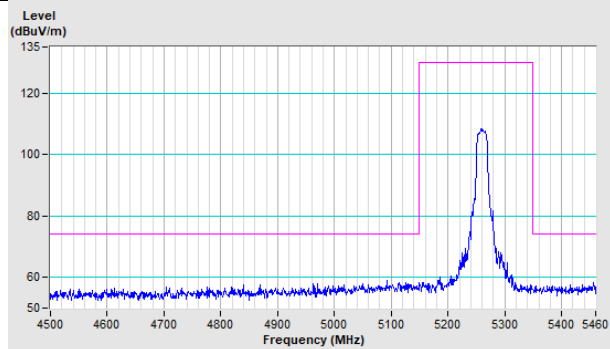


Vertical (Average)

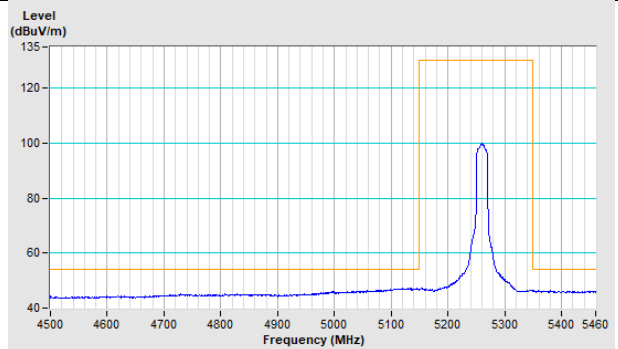


802.11ac (VHT20) Channel 52

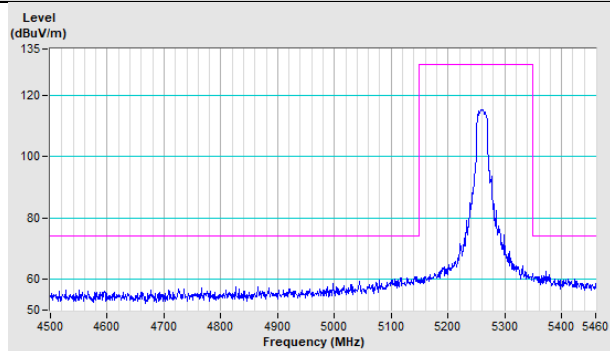
Horizontal (Peak)



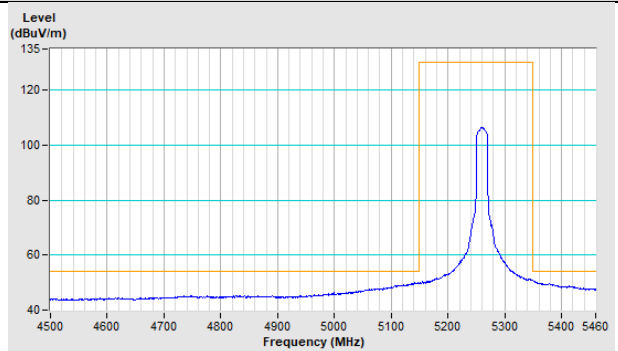
Horizontal (Average)



Vertical (Peak)

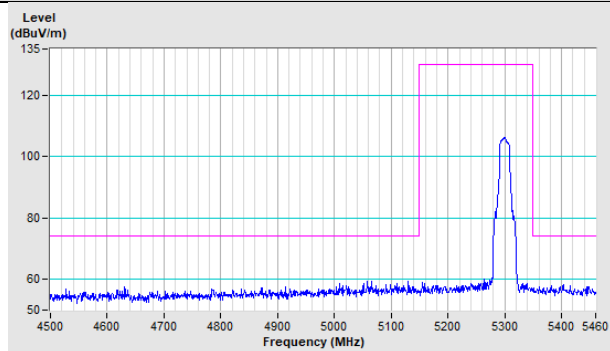


Vertical (Average)

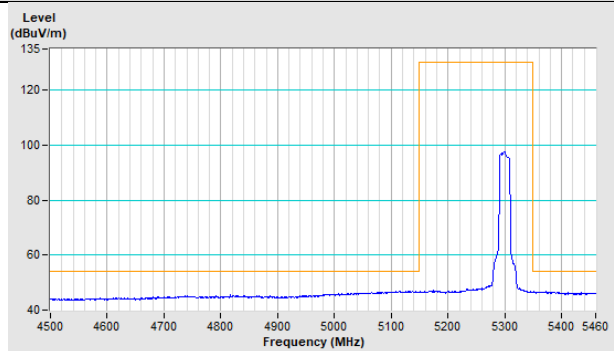


802.11ac (VHT20) Channel 60

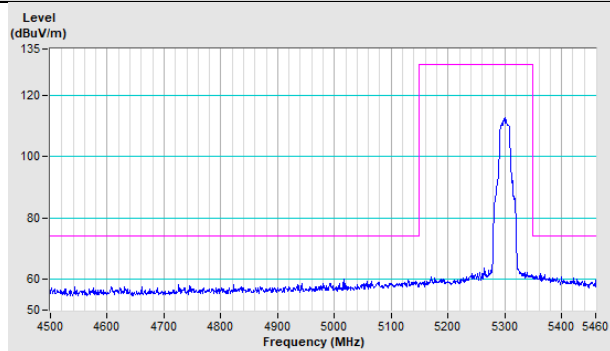
Horizontal (Peak)



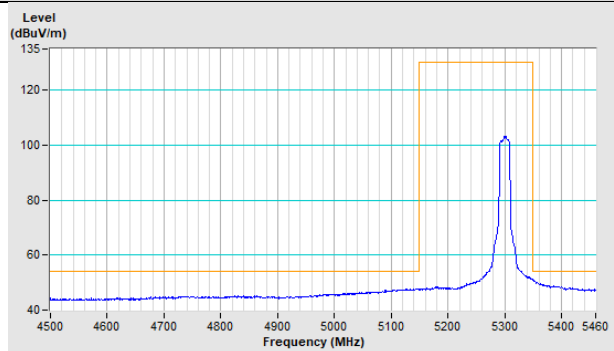
Horizontal (Average)



Vertical (Peak)

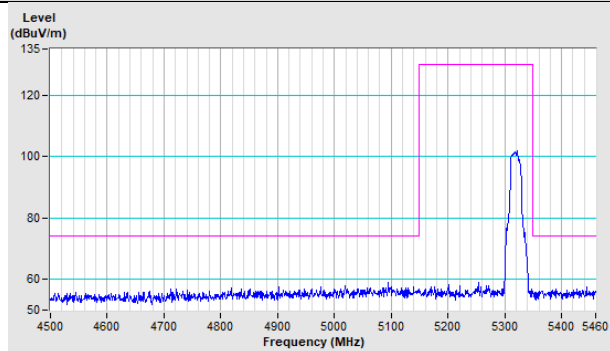


Vertical (Average)

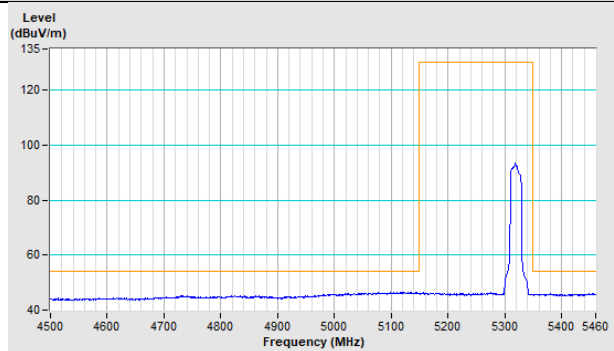


802.11ac (VHT20) Channel 64

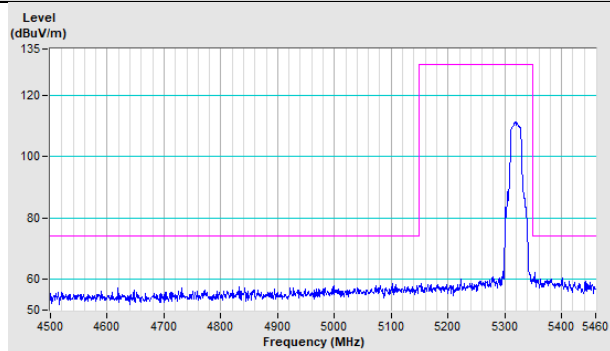
Horizontal (Peak)



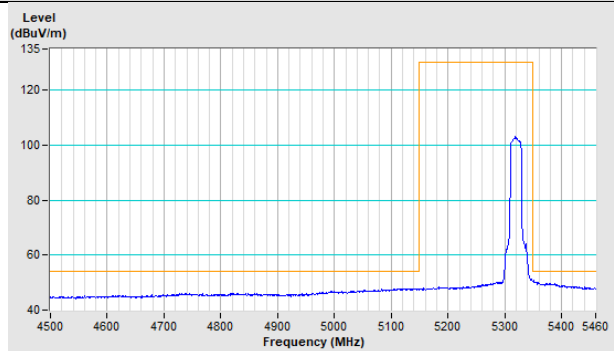
Horizontal (Average)



Vertical (Peak)

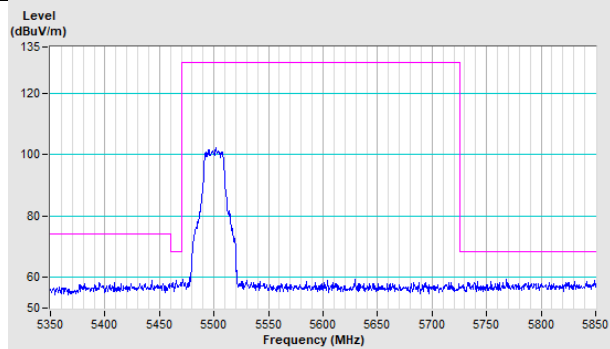


Vertical (Average)

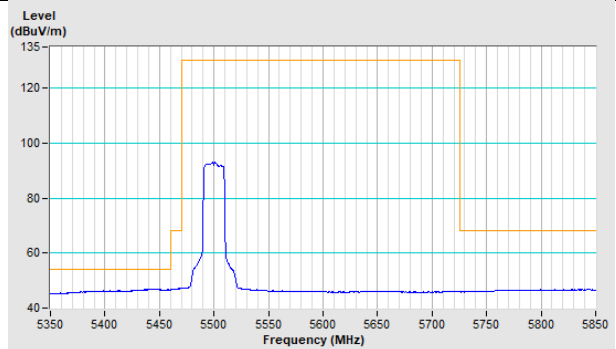


802.11ac (VHT20) Channel 100

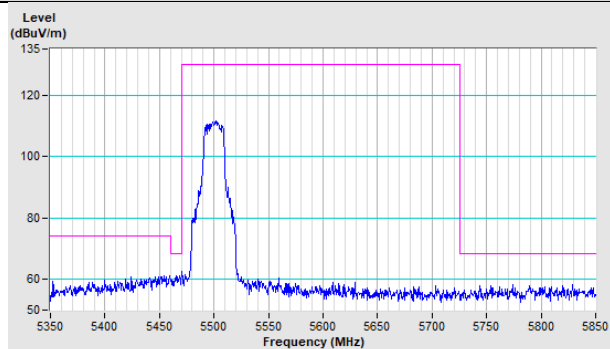
Horizontal (Peak)



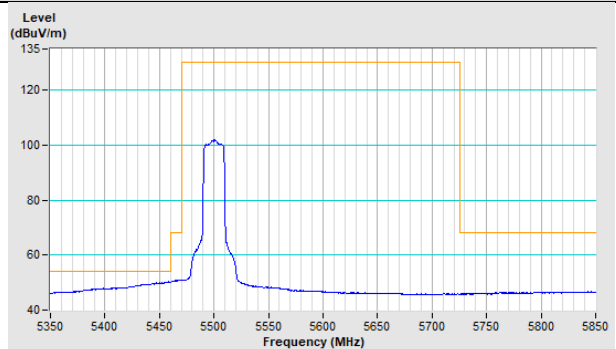
Horizontal (Average)



Vertical (Peak)

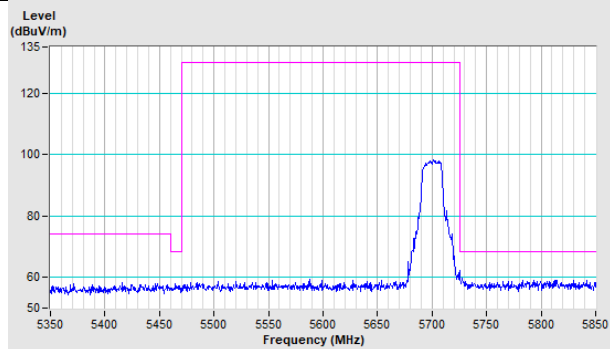


Vertical (Average)

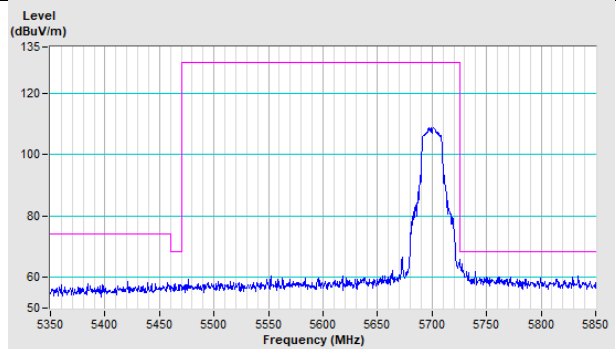


802.11ac (VHT20) Channel 140

Horizontal (Peak)

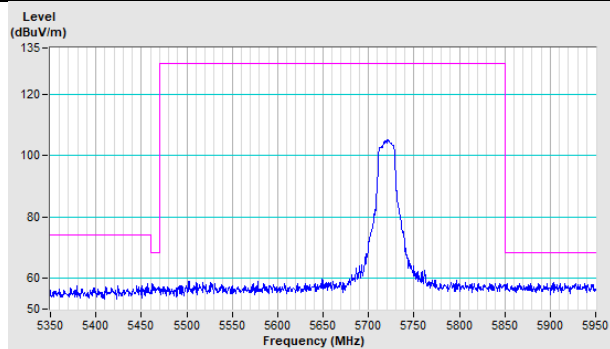


Vertical (Peak)

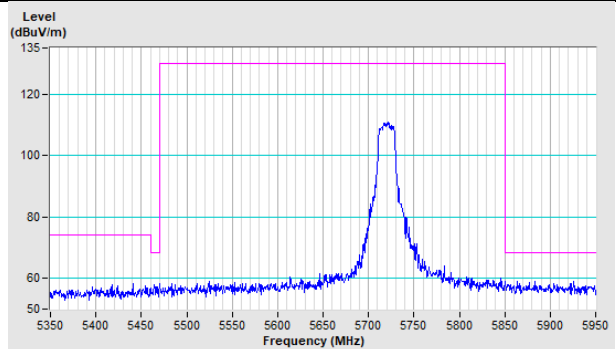


802.11ac (VHT20) Channel 144

Horizontal (Peak)

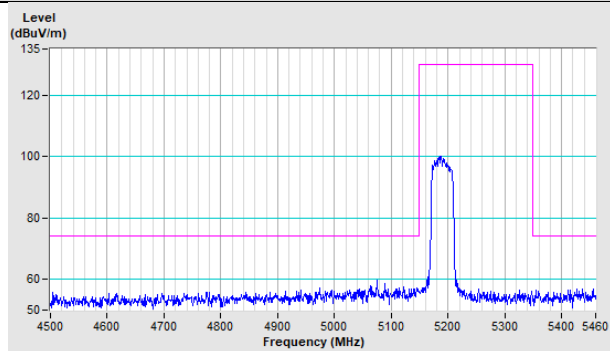


Vertical (Peak)

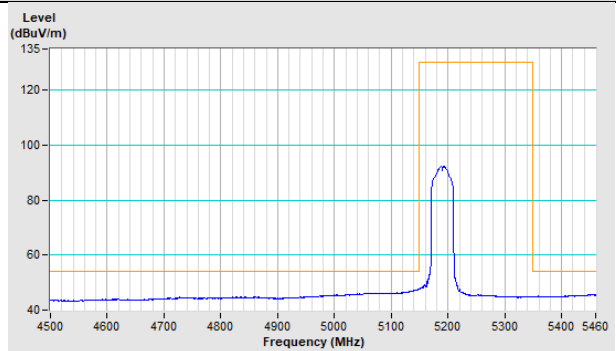


802.11ac (VHT40) Channel 38

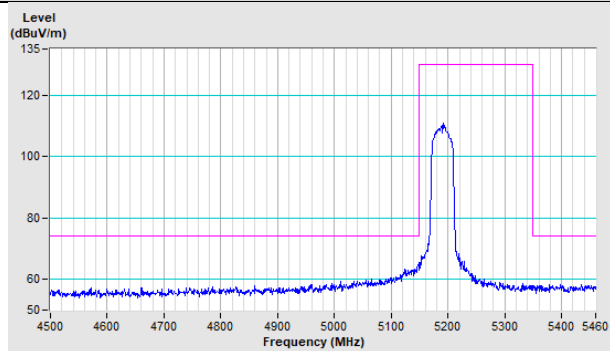
Horizontal (Peak)



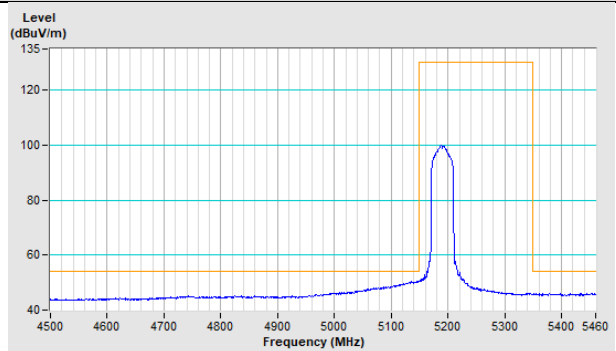
Horizontal (Average)



Vertical (Peak)

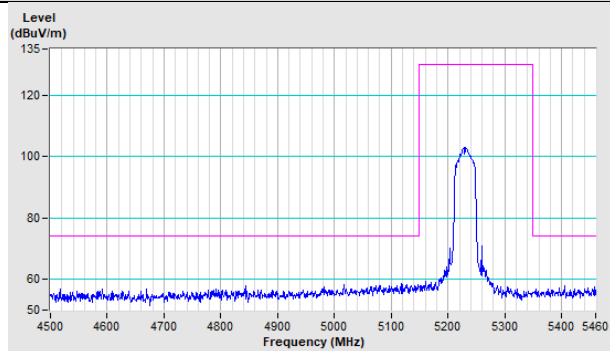


Vertical (Average)

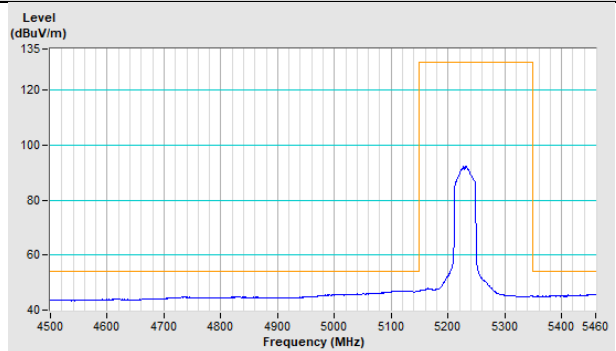


802.11ac (VHT40) Channel 46

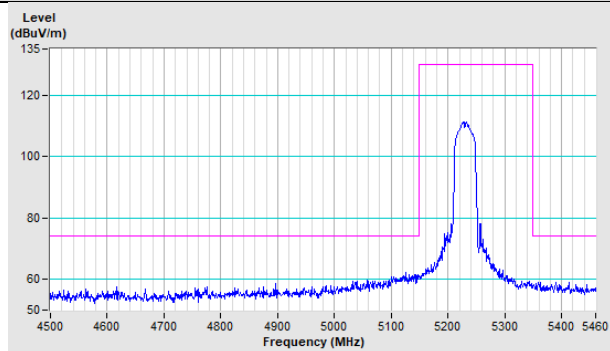
Horizontal (Peak)



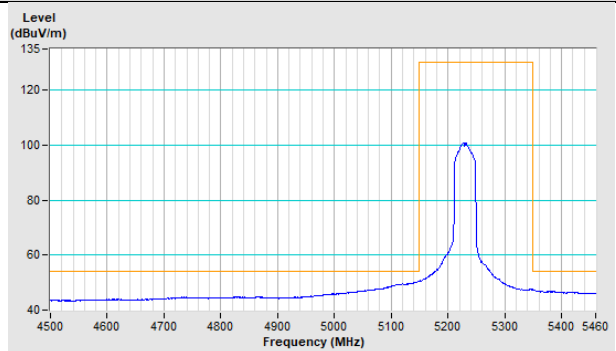
Horizontal (Average)



Vertical (Peak)

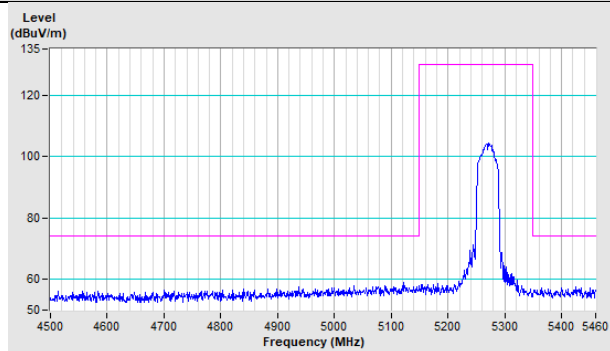


Vertical (Average)

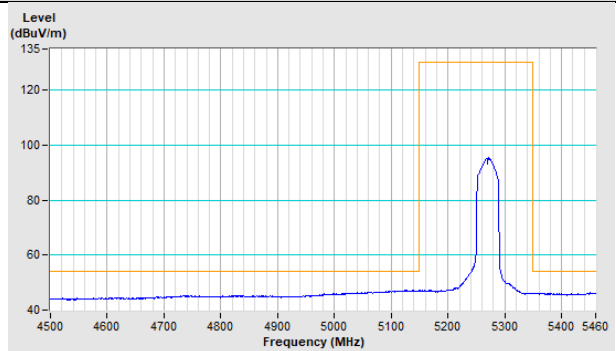


802.11ac (VHT40) Channel 54

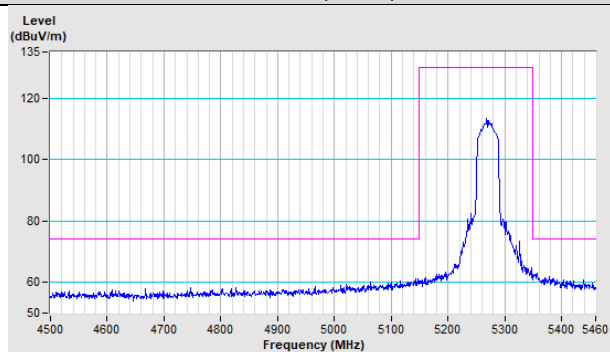
Horizontal (Peak)



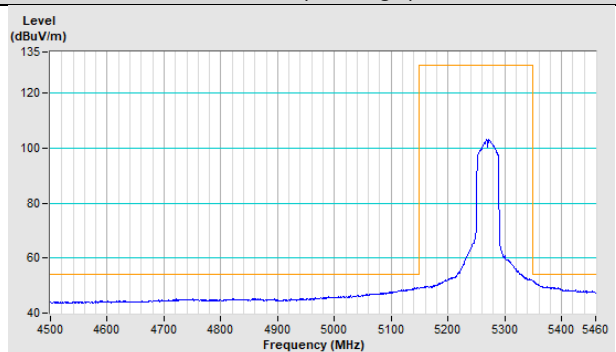
Horizontal (Average)



Vertical (Peak)

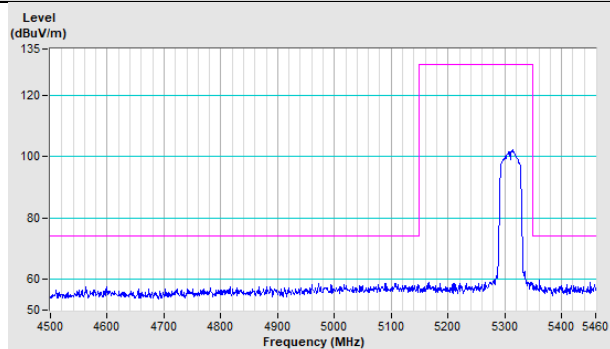


Vertical (Average)

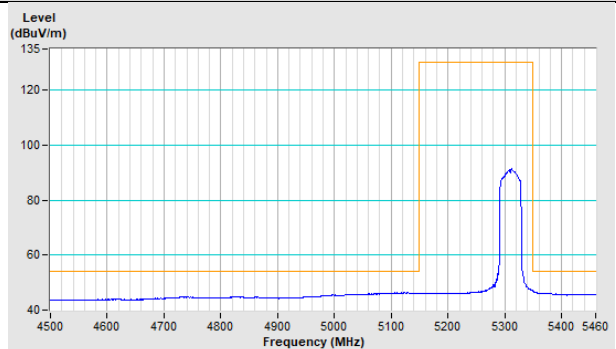


802.11ac (VHT40) Channel 62

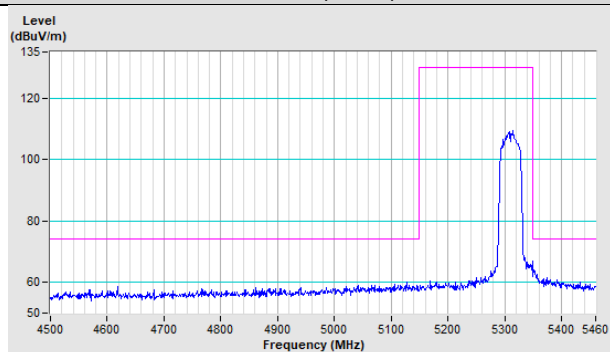
Horizontal (Peak)



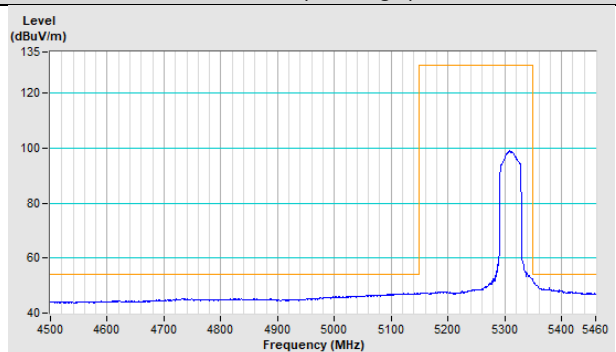
Horizontal (Average)



Vertical (Peak)

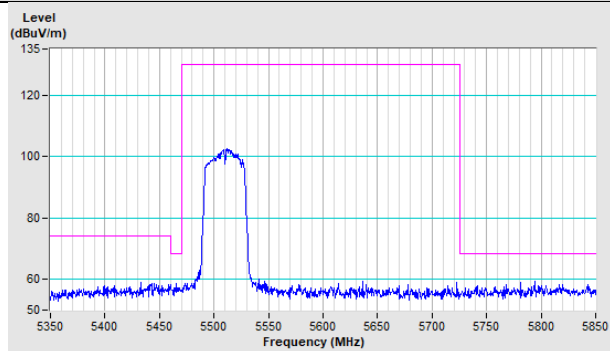


Vertical (Average)

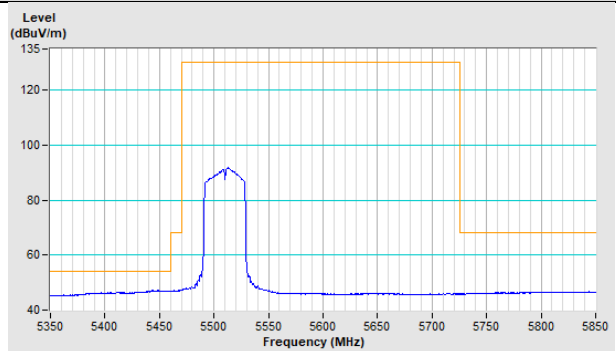


802.11ac (VHT40) Channel 102

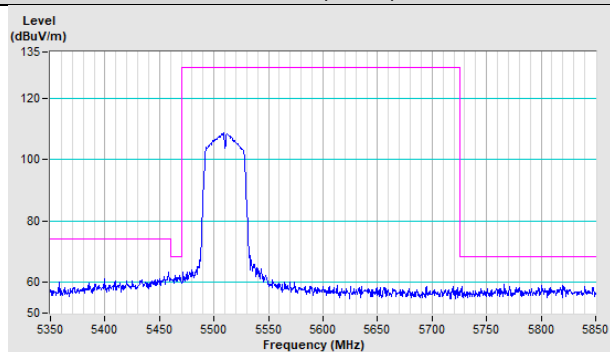
Horizontal (Peak)



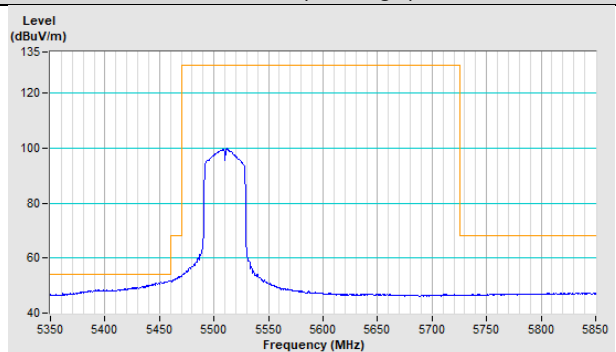
Horizontal (Average)



Vertical (Peak)

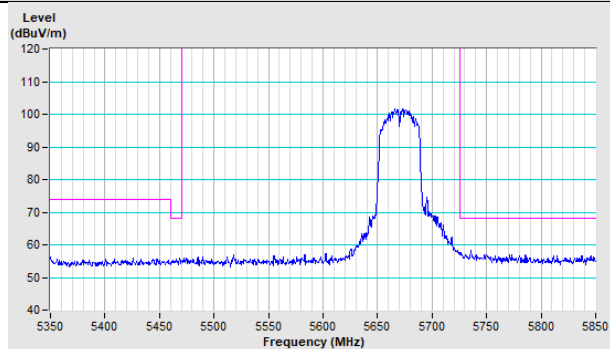


Vertical (Average)

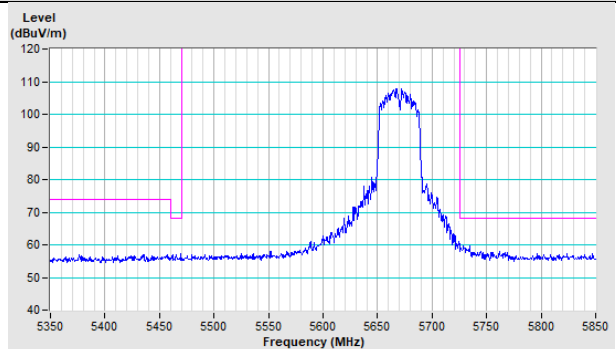


802.11ac (VHT40) Channel 134

Horizontal (Peak)

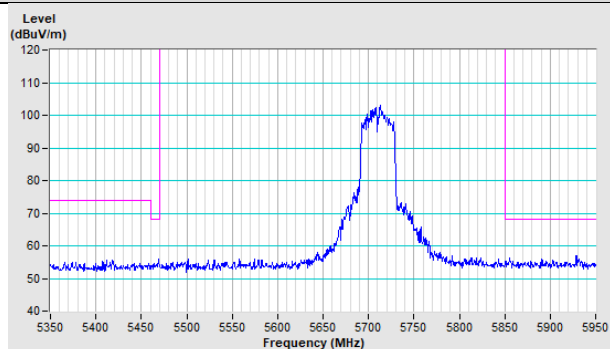


Vertical (Peak)

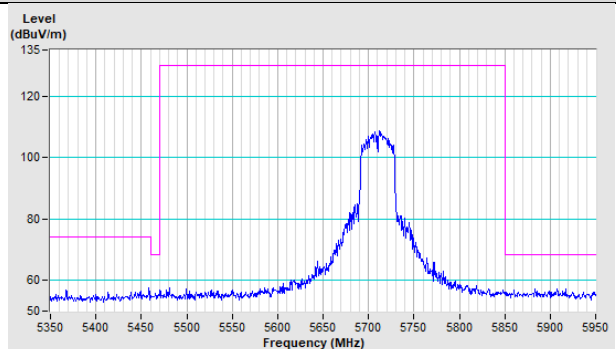


802.11ac (VHT40) Channel 142

Horizontal (Peak)

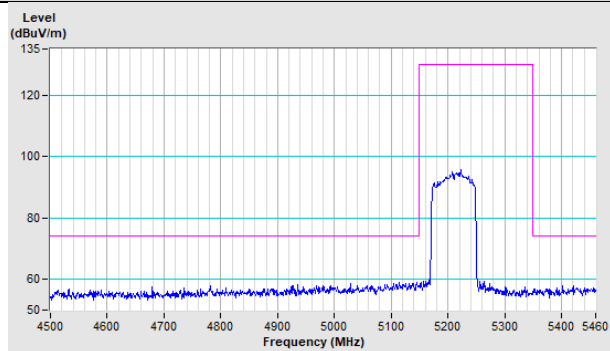


Vertical (Peak)

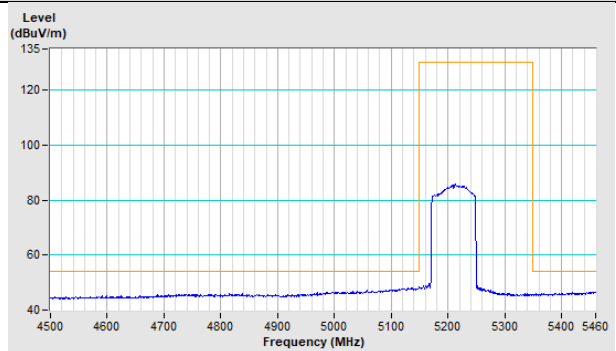


802.11ac (VHT80) Channel 42

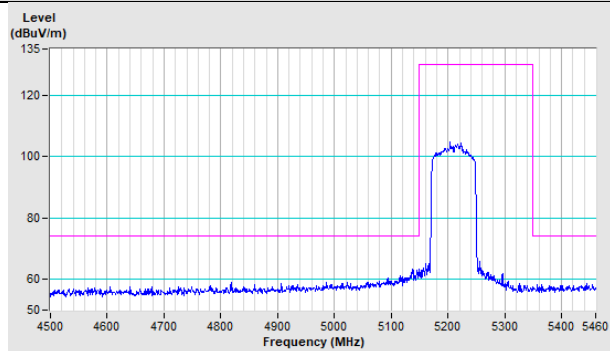
Horizontal (Peak)



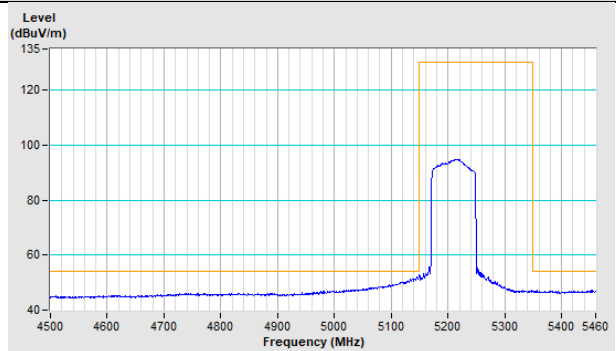
Horizontal (Average)



Vertical (Peak)

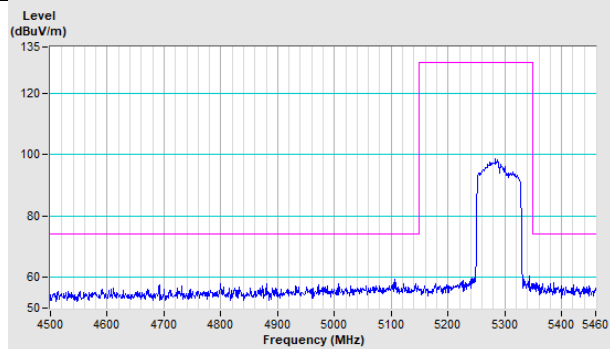


Vertical (Average)

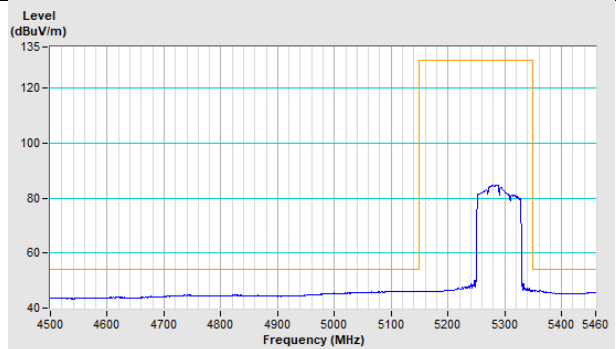


802.11ac (VHT80) Channel 58

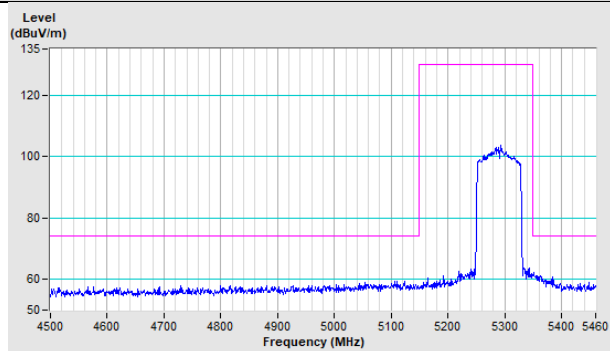
Horizontal (Peak)



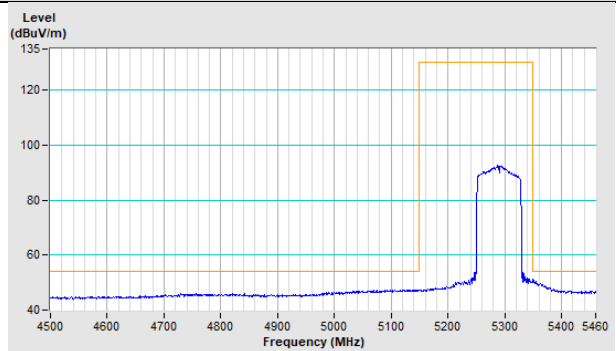
Horizontal (Average)



Vertical (Peak)

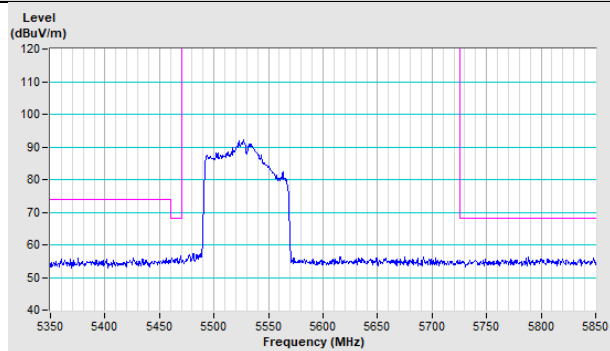


Vertical (Average)

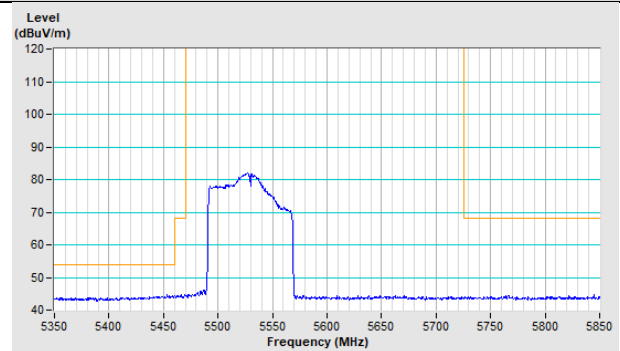


802.11ac (VHT80) Channel 106

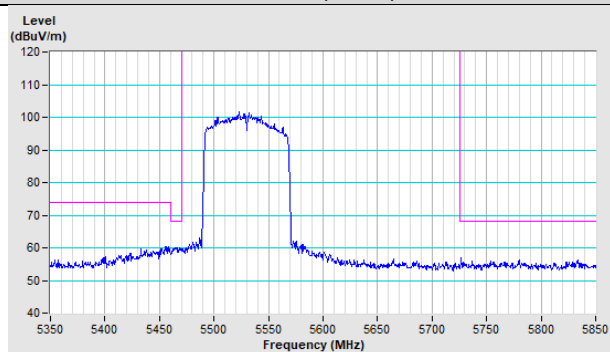
Horizontal (Peak)



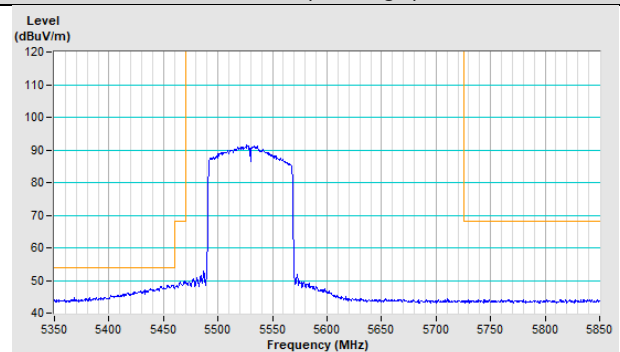
Horizontal (Average)



Vertical (Peak)

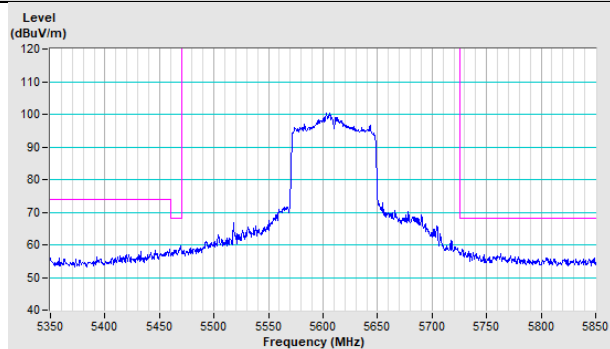


Vertical (Average)

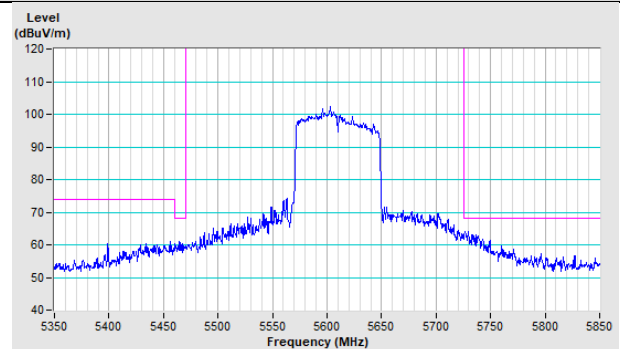


802.11ac (VHT80) Channel 122

Horizontal (Peak)

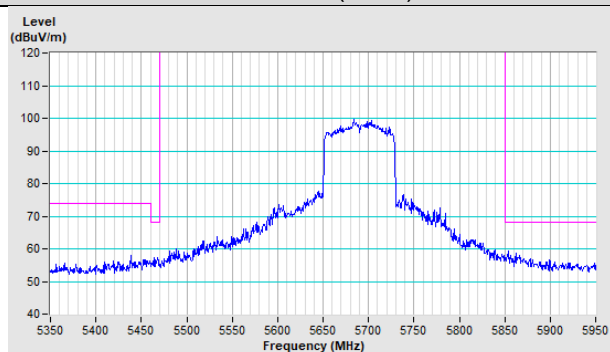


Vertical (Peak)

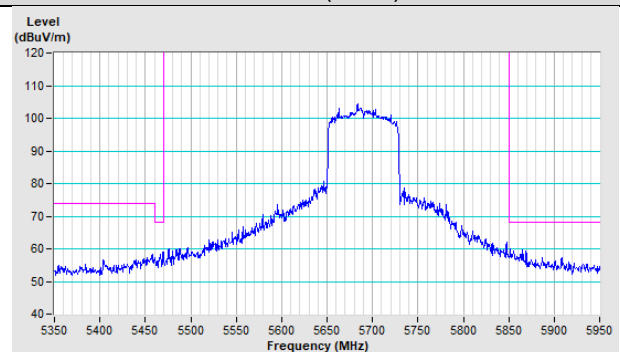


802.11ac (VHT80) Channel 138

Horizontal (Peak)



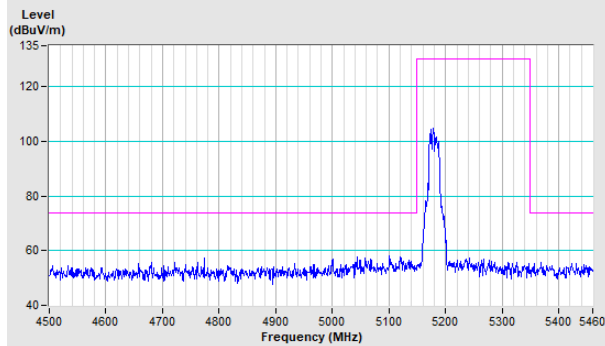
Vertical (Peak)



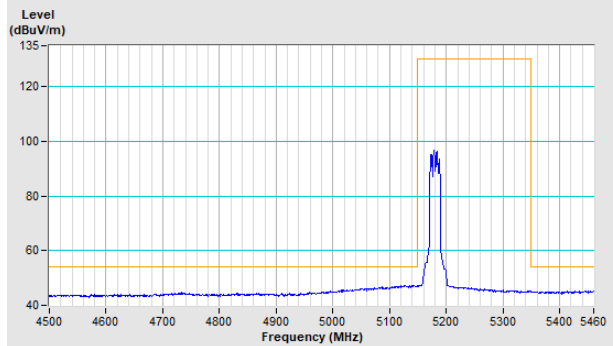
2TX (High Power)

802.11a Channel 36

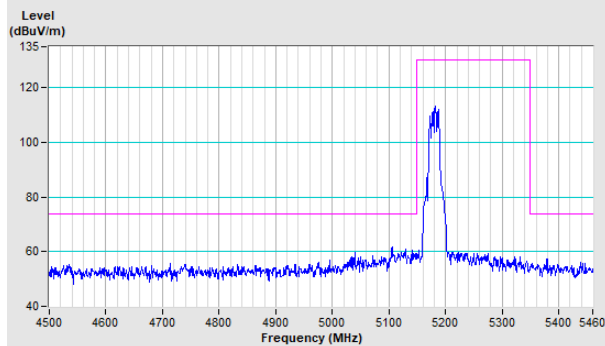
Horizontal (Peak)



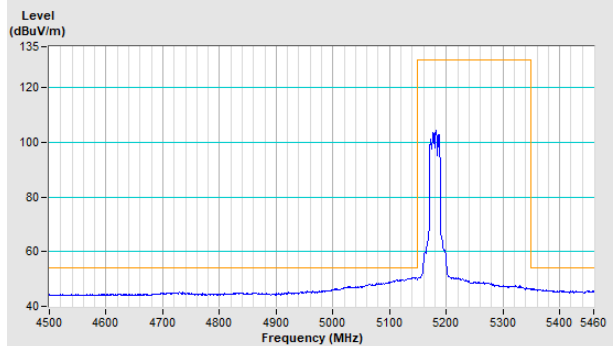
Horizontal (Average)



Vertical (Peak)

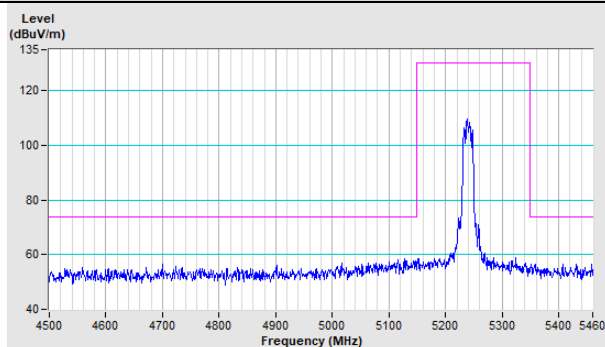


Vertical (Average)

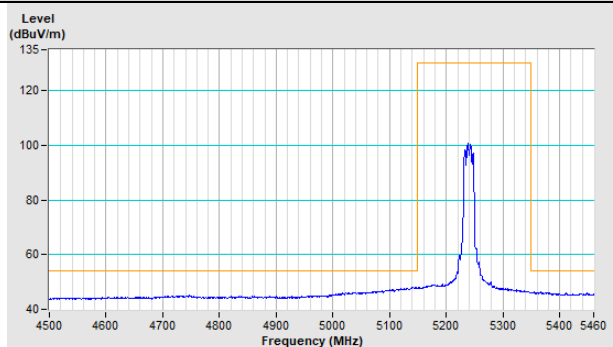


802.11a Channel 48

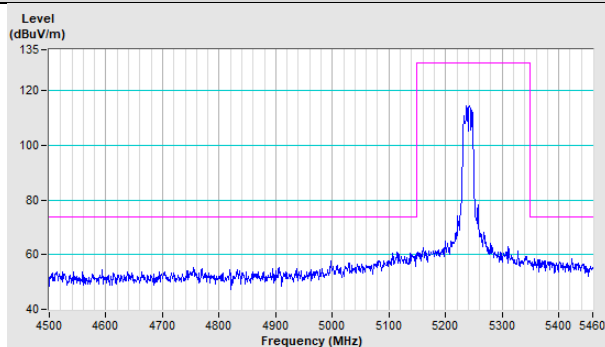
Horizontal (Peak)



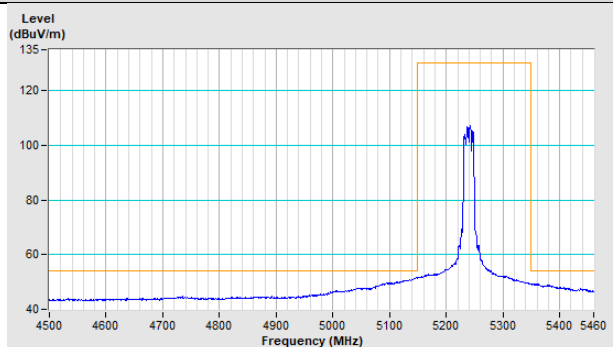
Horizontal (Average)



Vertical (Peak)

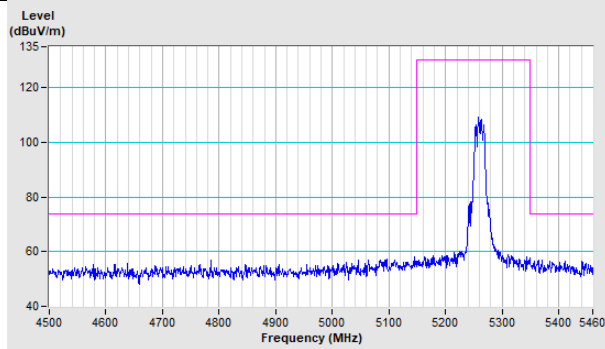


Vertical (Average)

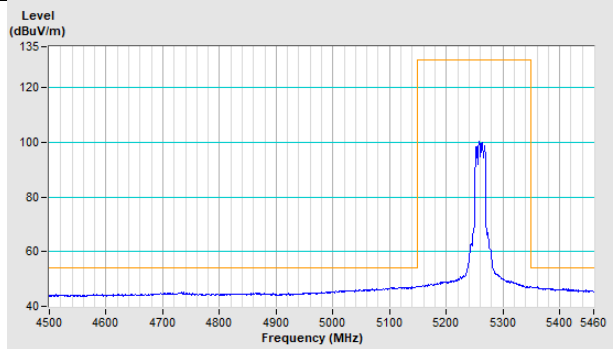


802.11a Channel 52

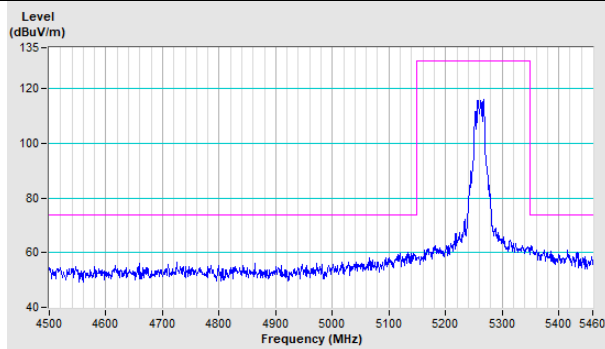
Horizontal (Peak)



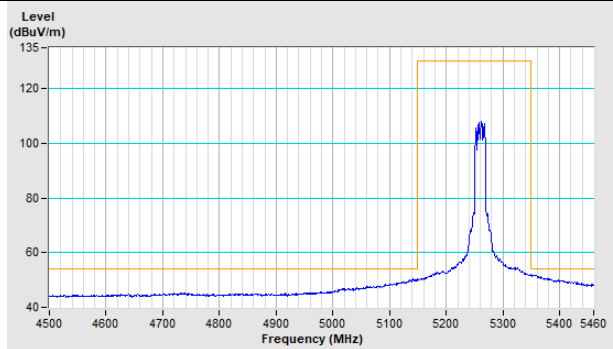
Horizontal (Average)



Vertical (Peak)

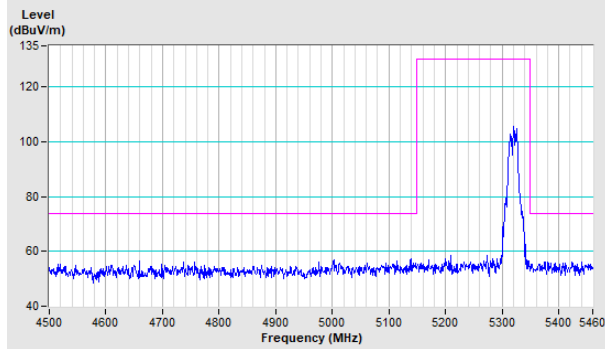


Vertical (Average)

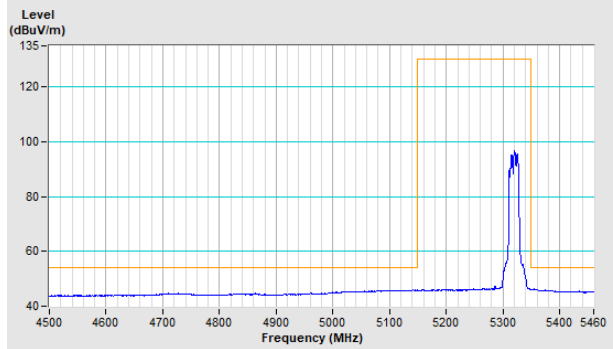


802.11a Channel 64

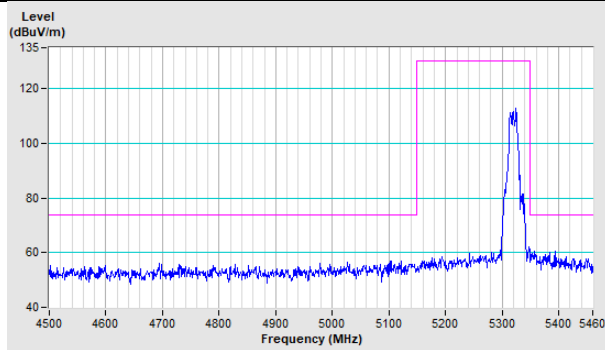
Horizontal (Peak)



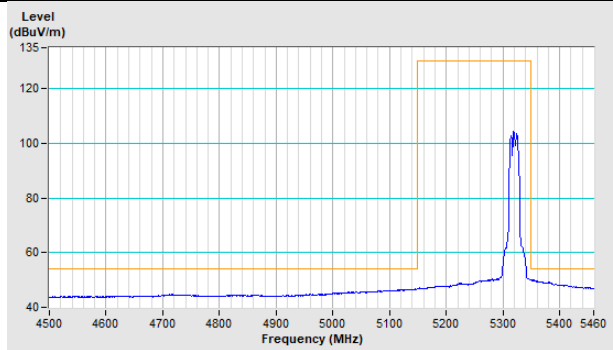
Horizontal (Average)



Vertical (Peak)

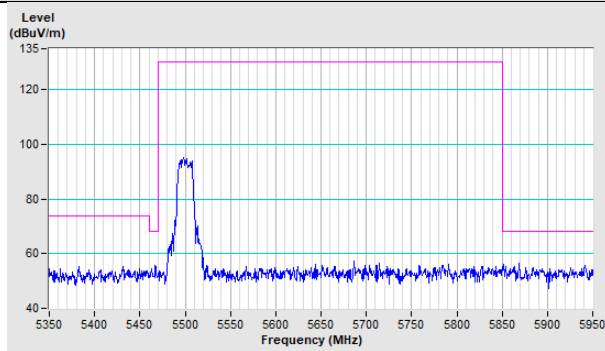


Vertical (Average)

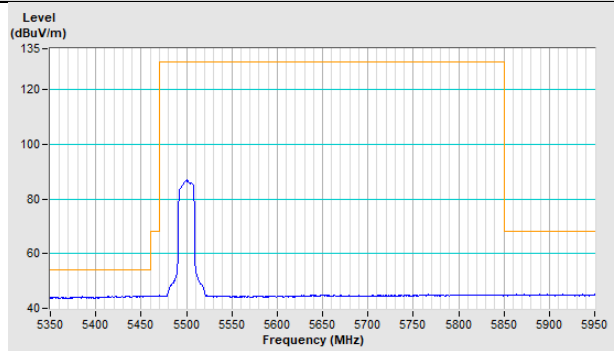


802.11a Channel 100

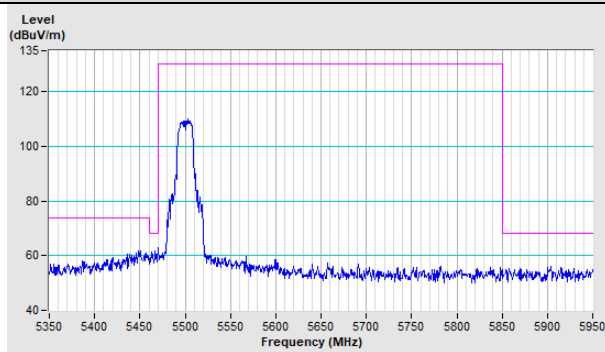
Horizontal (Peak)



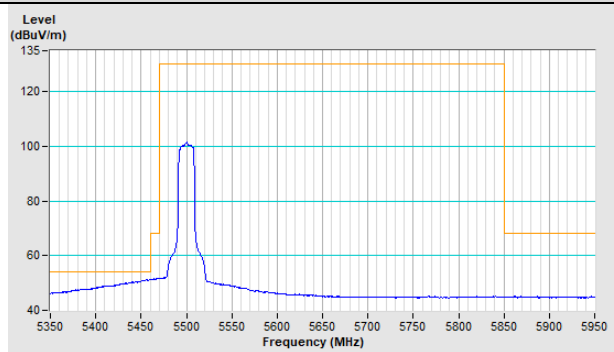
Horizontal (Average)



Vertical (Peak)

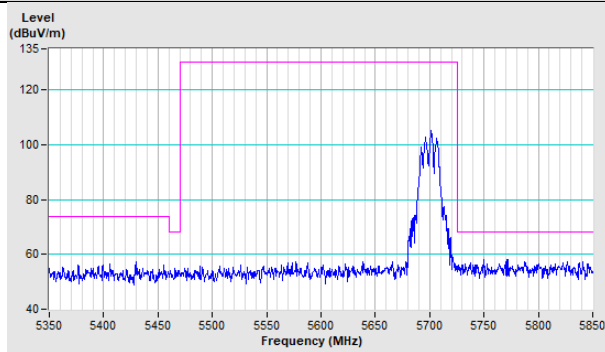


Vertical (Average)

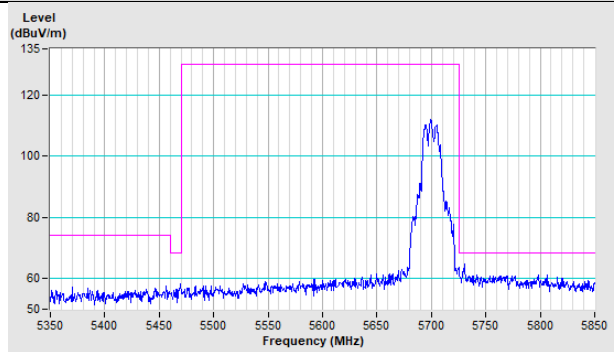


802.11a Channel 140

Horizontal (Peak)

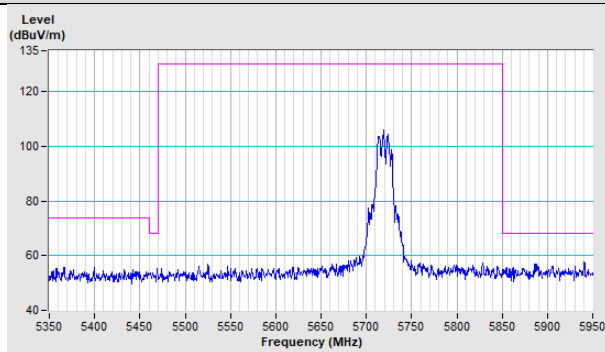


Vertical (Peak)

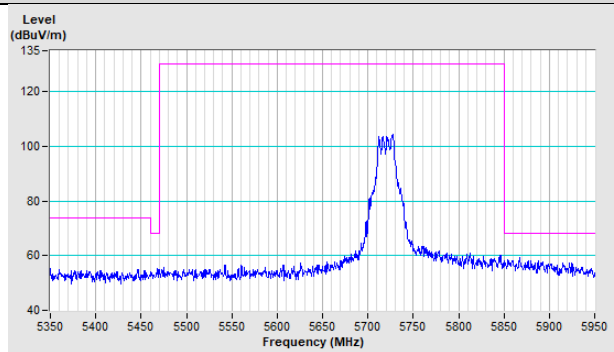


802.11a Channel 144

Horizontal (Peak)

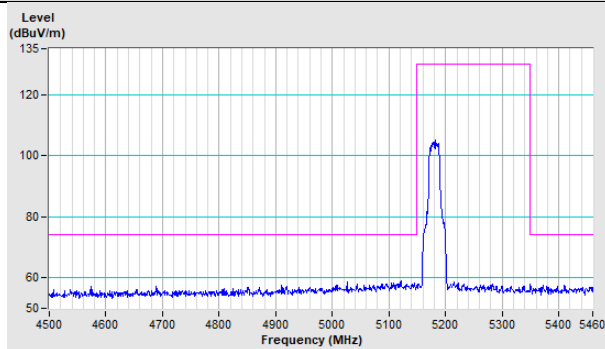


Vertical (Peak)

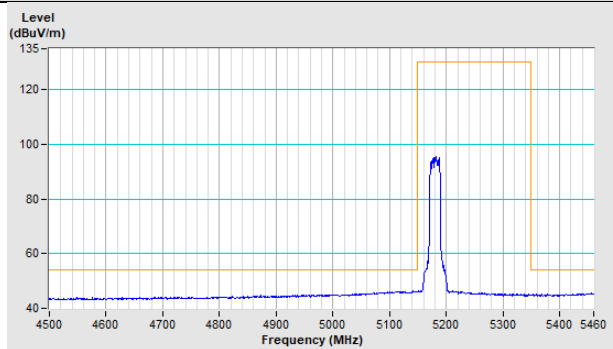


802.11ac (VHT20) Channel 36

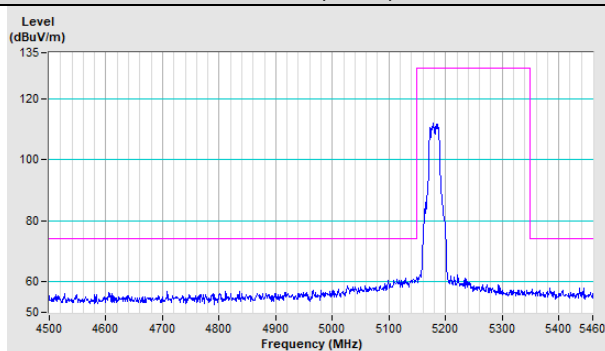
Horizontal (Peak)



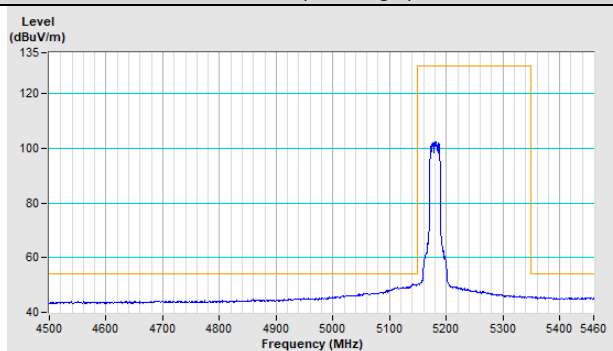
Horizontal (Average)



Vertical (Peak)

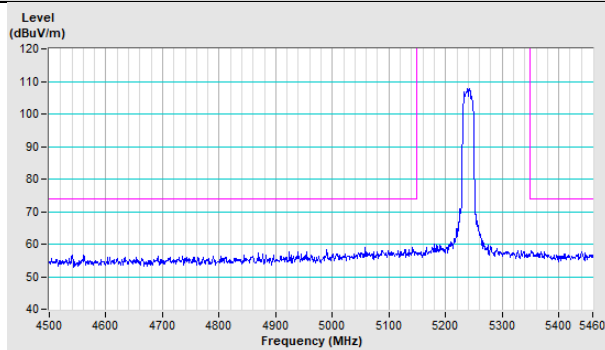


Vertical (Average)

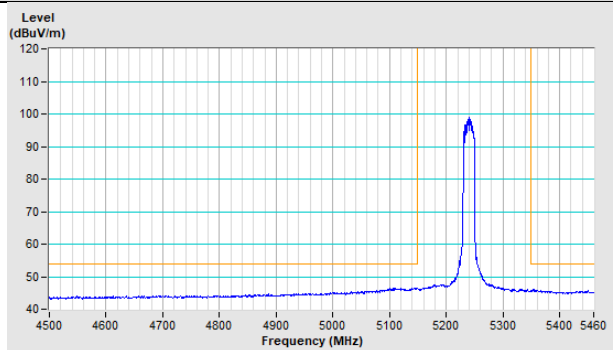


802.11ac (VHT20) Channel 48

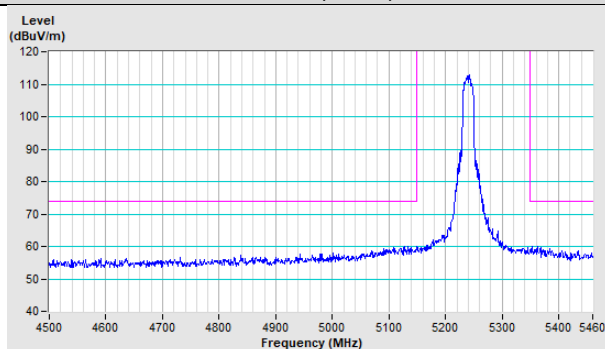
Horizontal (Peak)



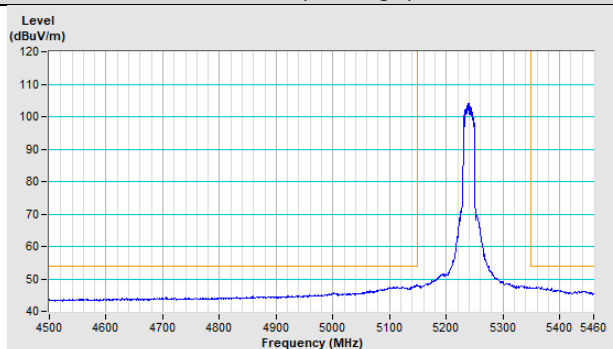
Horizontal (Average)



Vertical (Peak)

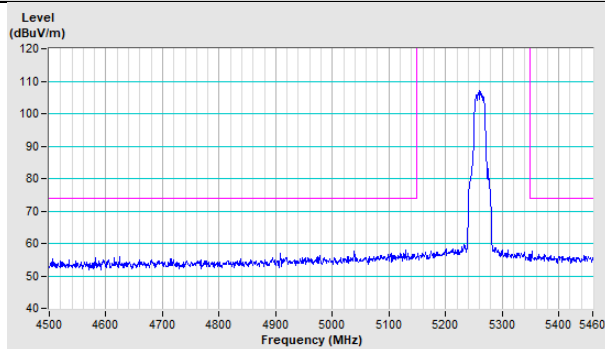


Vertical (Average)

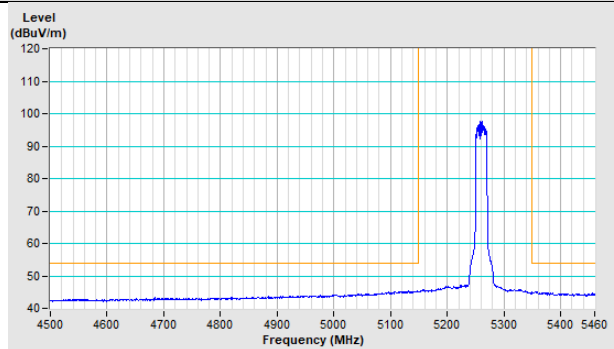


802.11ac (VHT20) Channel 52

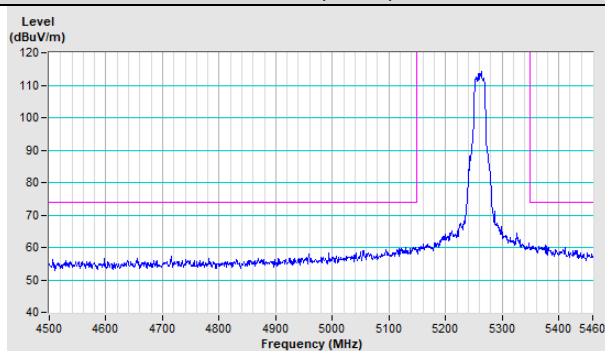
Horizontal (Peak)



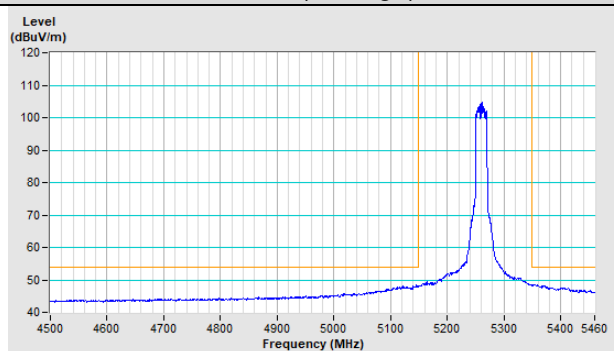
Horizontal (Average)



Vertical (Peak)

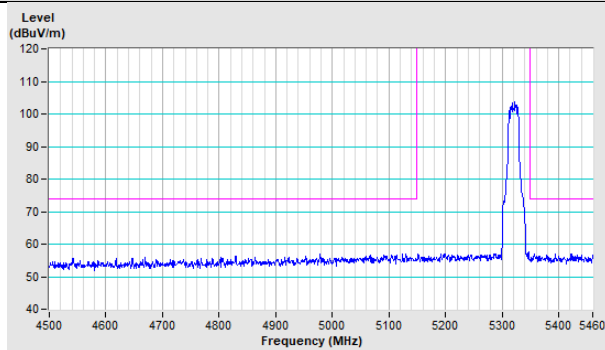


Vertical (Average)

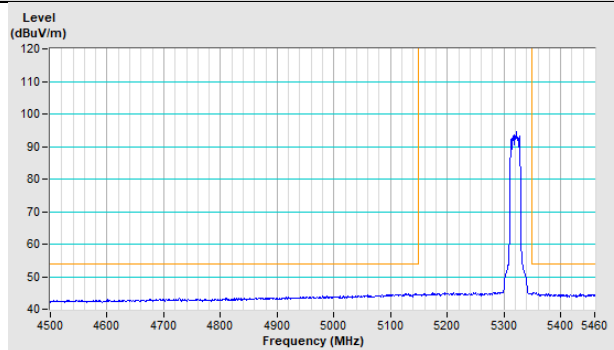


802.11ac (VHT20) Channel 64

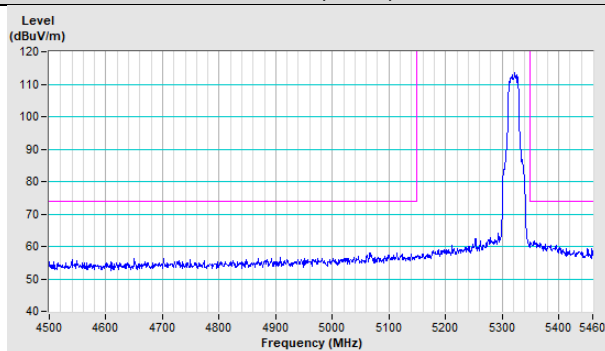
Horizontal (Peak)



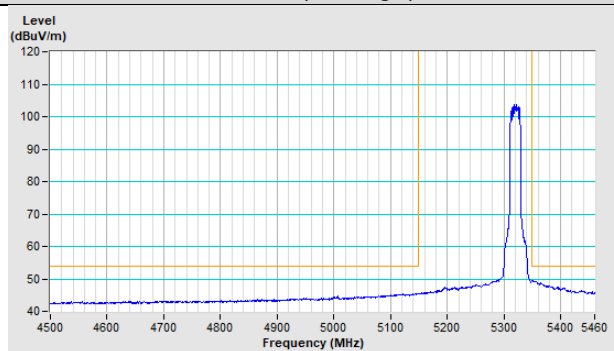
Horizontal (Average)



Vertical (Peak)

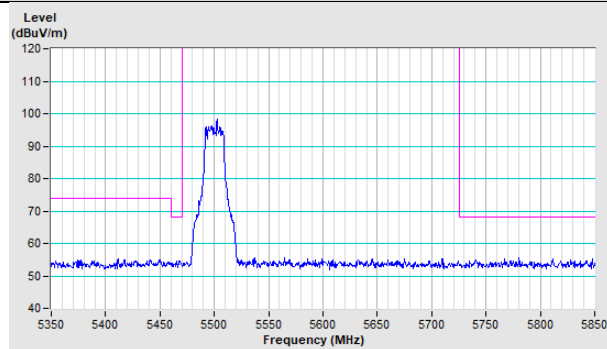


Vertical (Average)

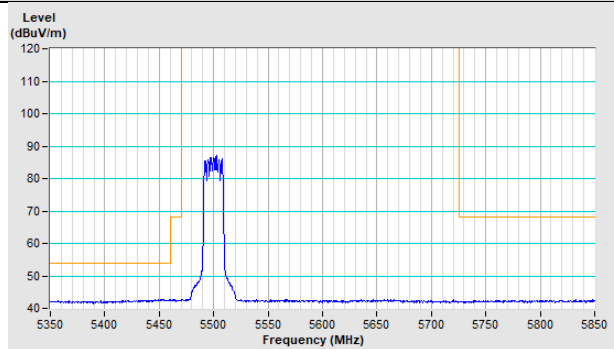


802.11ac (VHT20) Channel 100

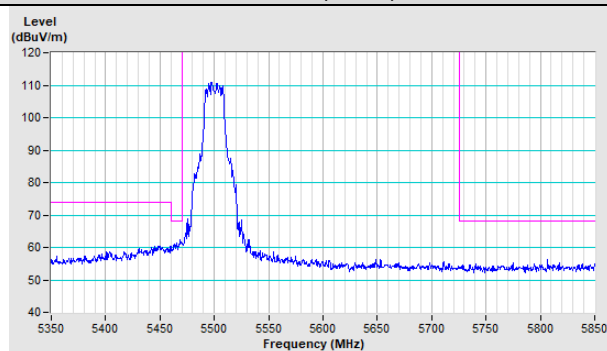
Horizontal (Peak)



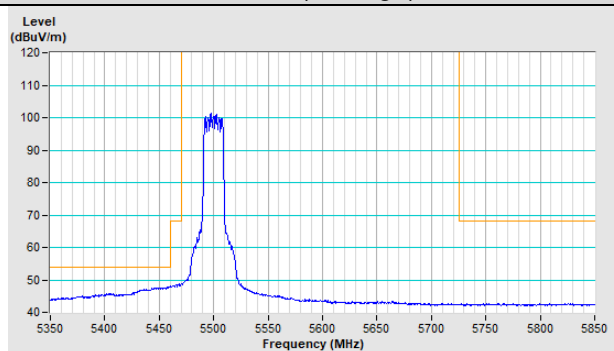
Horizontal (Average)



Vertical (Peak)

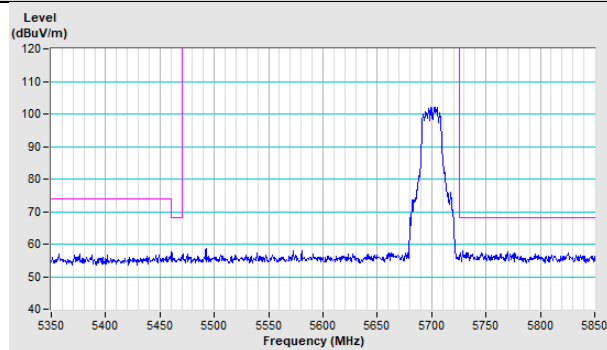


Vertical (Average)

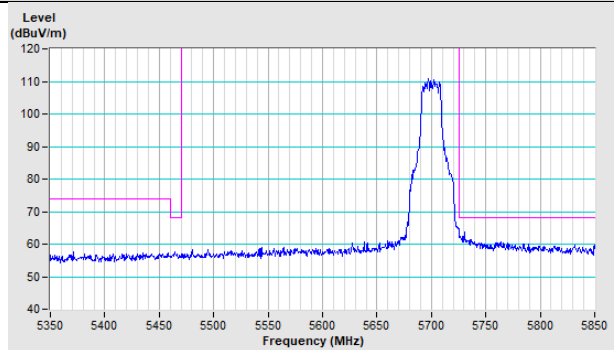


802.11ac (VHT20) Channel 140

Horizontal (Peak)

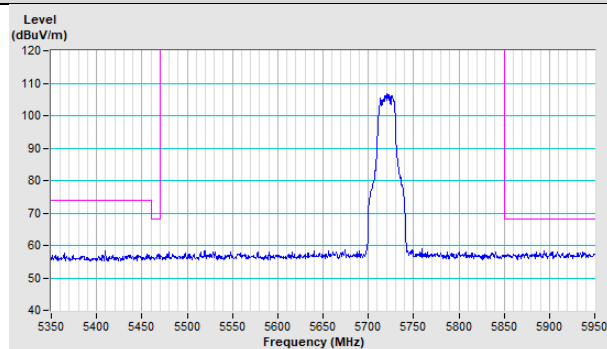


Vertical (Peak)

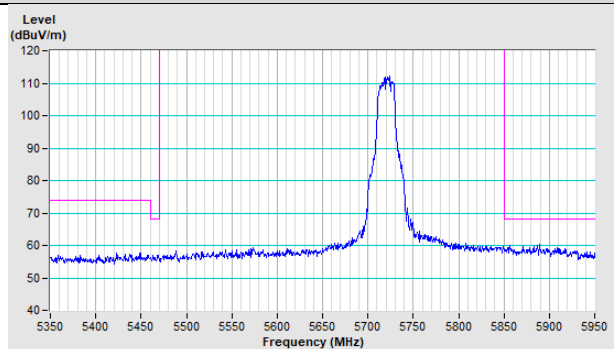


802.11ac (VHT20) Channel 144

Horizontal (Peak)

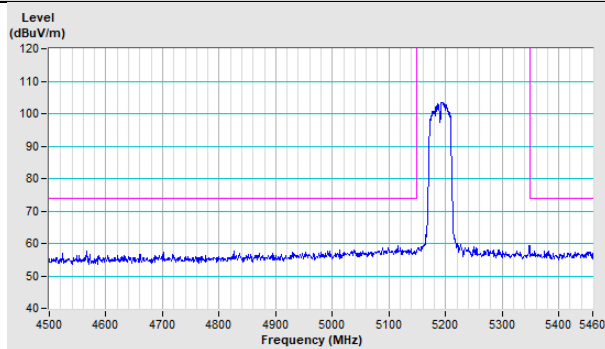


Vertical (Peak)

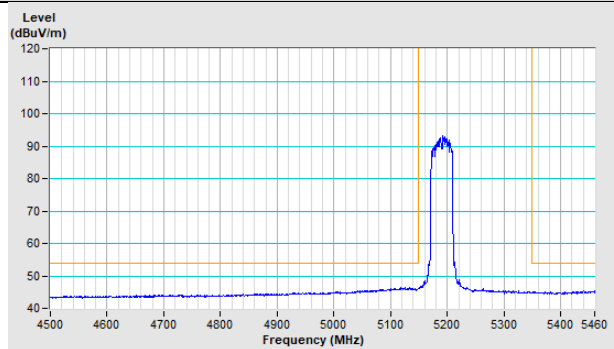


802.11ac (VHT40) Channel 38

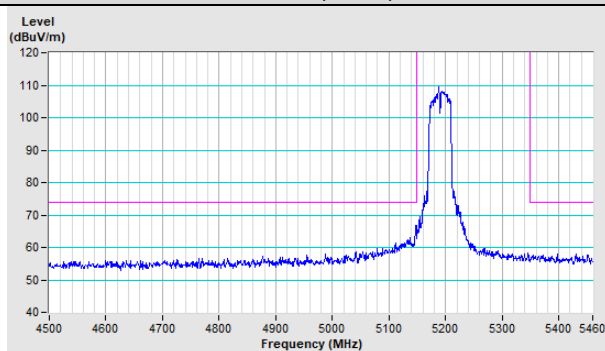
Horizontal (Peak)



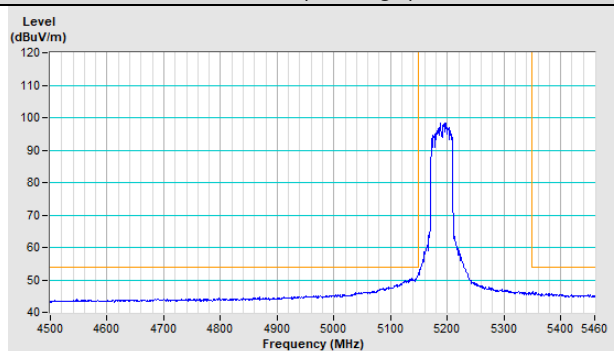
Horizontal (Average)



Vertical (Peak)

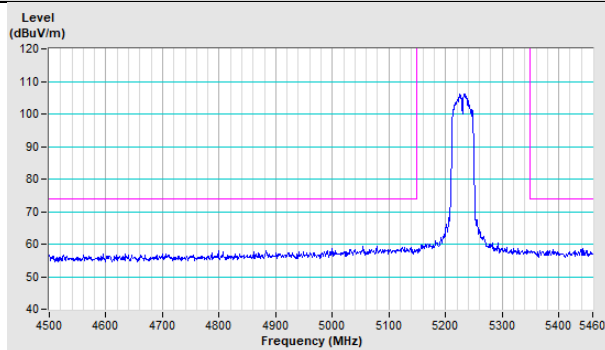


Vertical (Average)

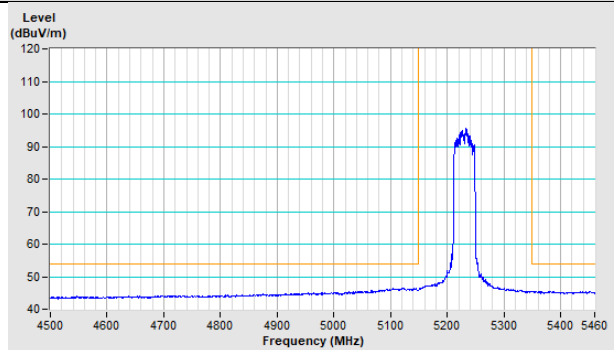


802.11ac (VHT40) Channel 46

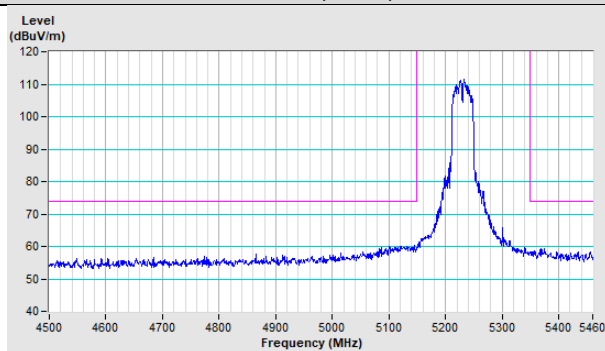
Horizontal (Peak)



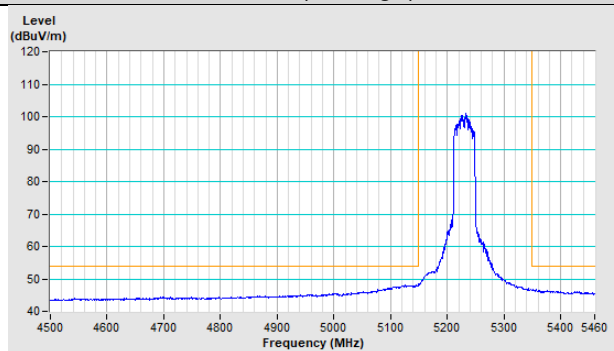
Horizontal (Average)



Vertical (Peak)

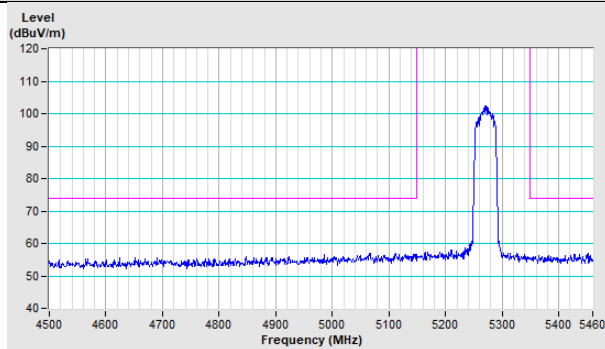


Vertical (Average)

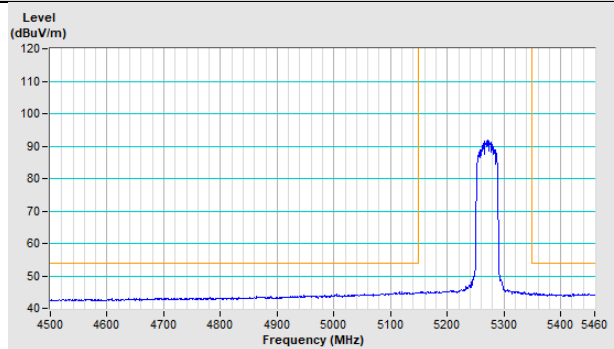


802.11ac (VHT40) Channel 54

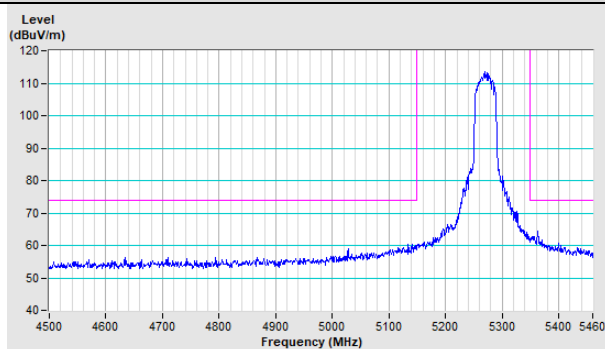
Horizontal (Peak)



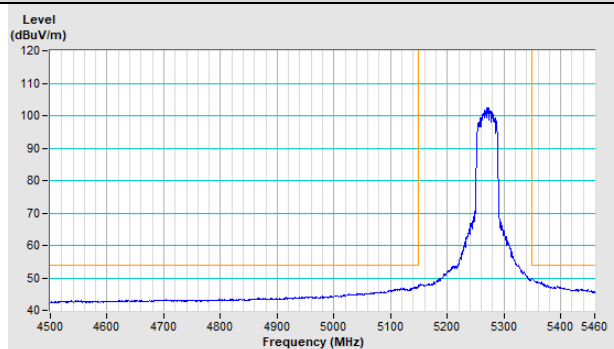
Horizontal (Average)



Vertical (Peak)

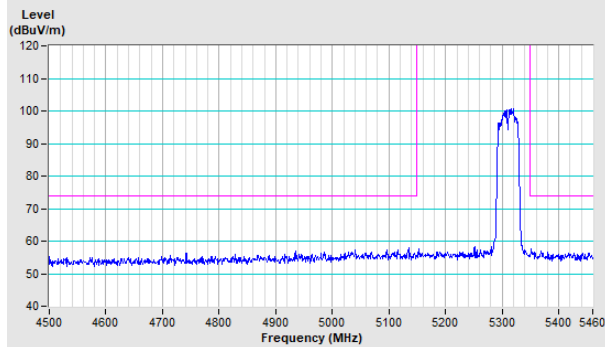


Vertical (Average)

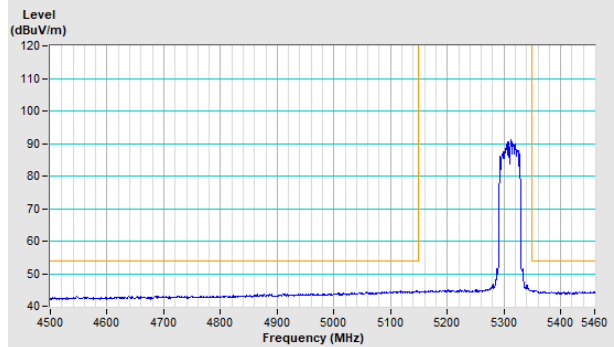


802.11ac (VHT40) Channel 62

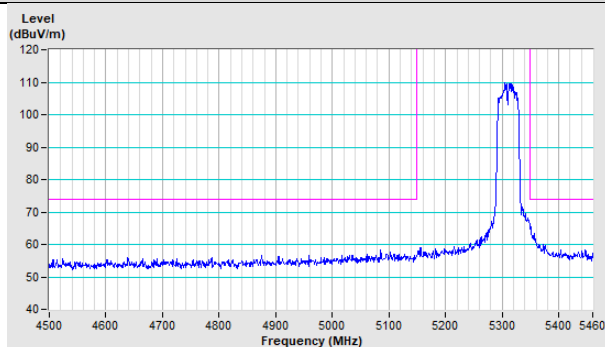
Horizontal (Peak)



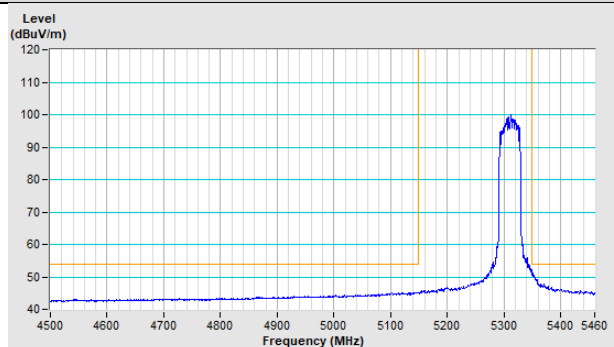
Horizontal (Average)



Vertical (Peak)

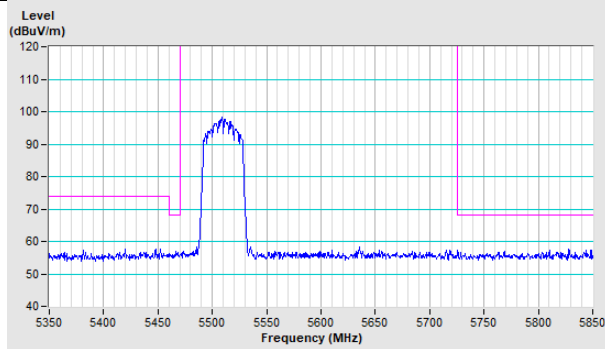


Vertical (Average)

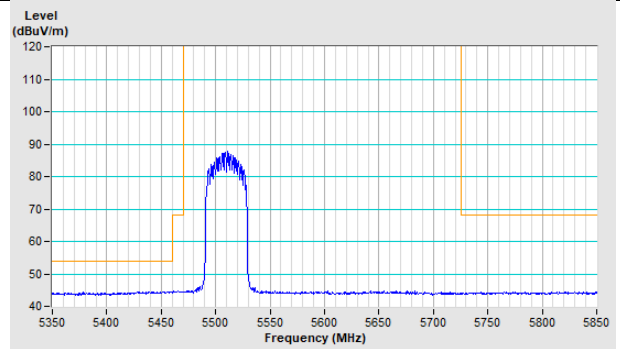


802.11ac (VHT40) Channel 102

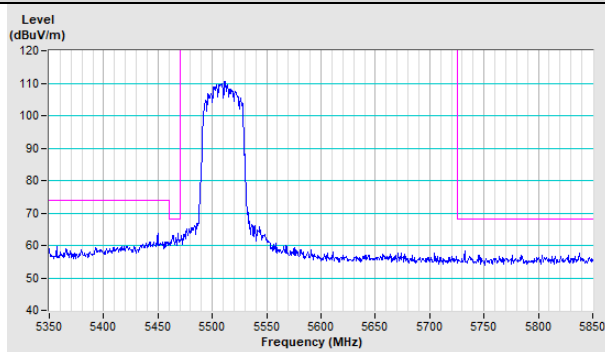
Horizontal (Peak)



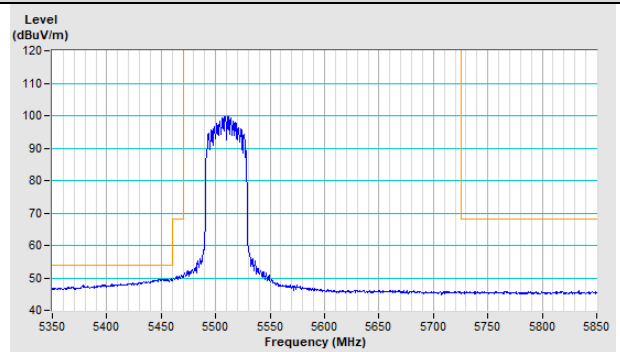
Horizontal (Average)



Vertical (Peak)

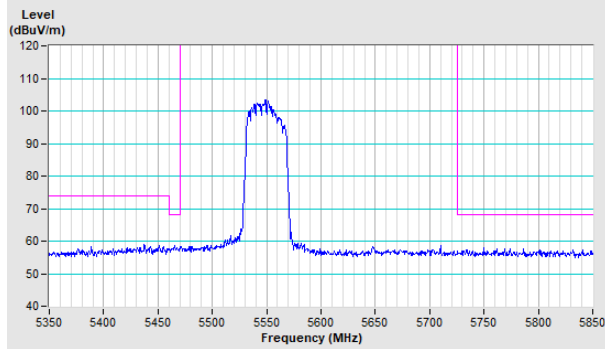


Vertical (Average)

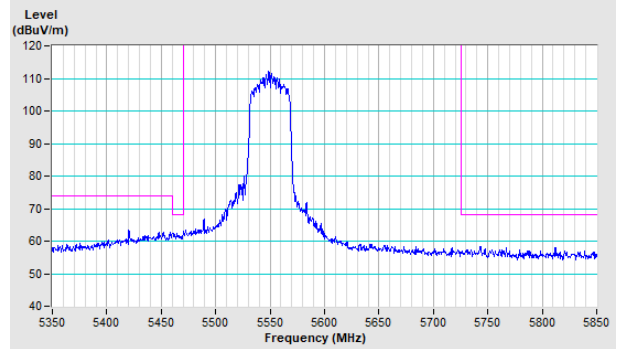


802.11ac (VHT40) Channel 110

Horizontal (Peak)

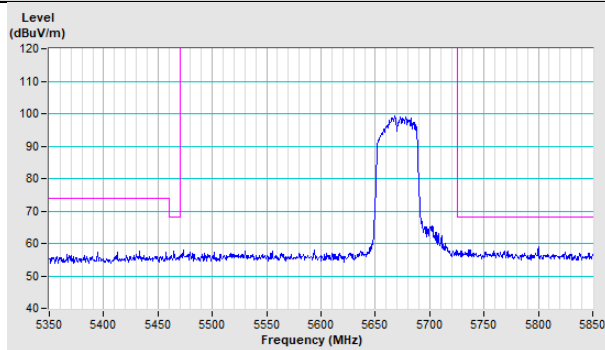


Vertical (Peak)

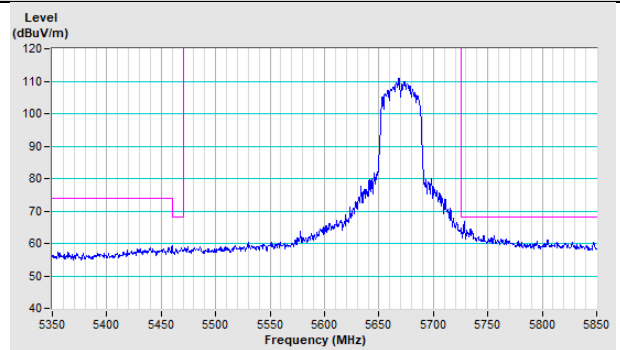


802.11ac (VHT40) Channel 134

Horizontal (Peak)

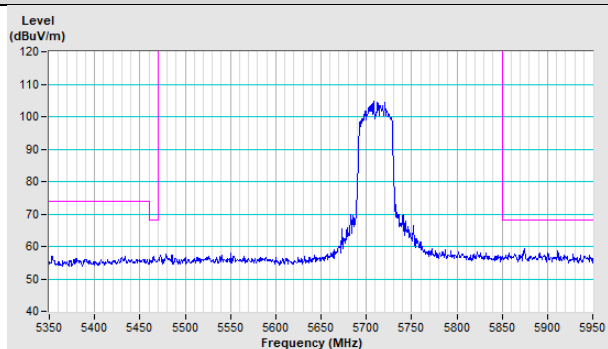


Vertical (Peak)

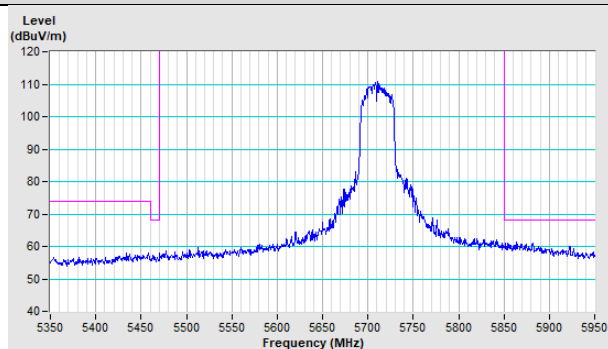


802.11ac (VHT40) Channel 142

Horizontal (Peak)

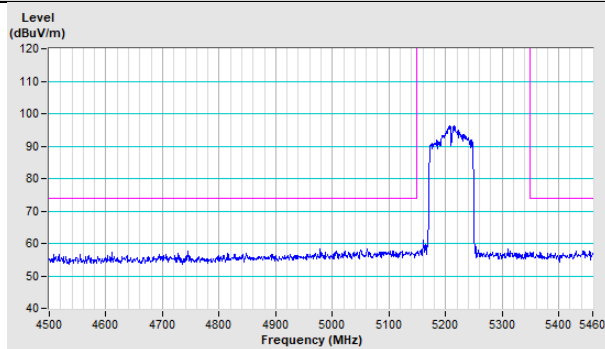


Vertical (Peak)

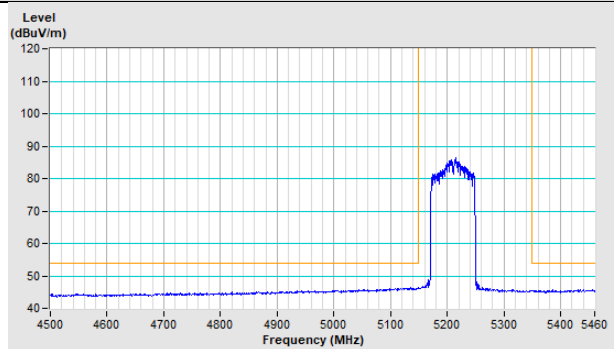


802.11ac (VHT80) Channel 42

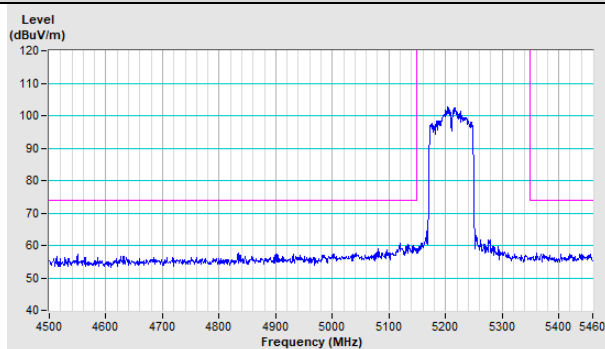
Horizontal (Peak)



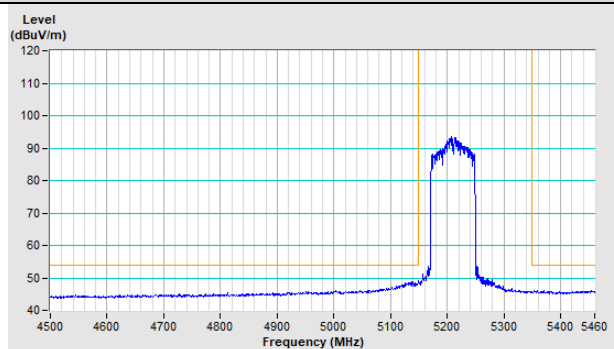
Horizontal (Average)



Vertical (Peak)

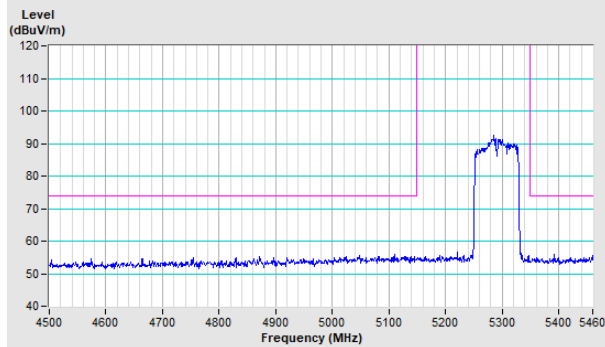


Vertical (Average)

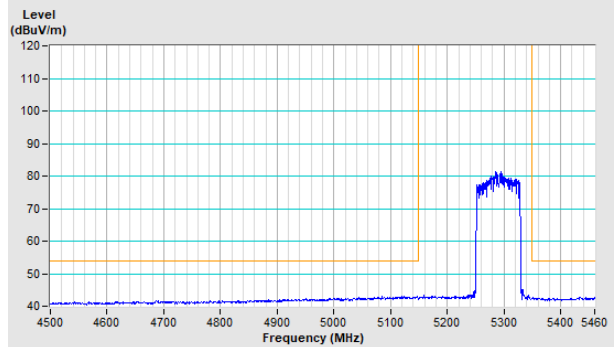


802.11ac (VHT80) Channel 58

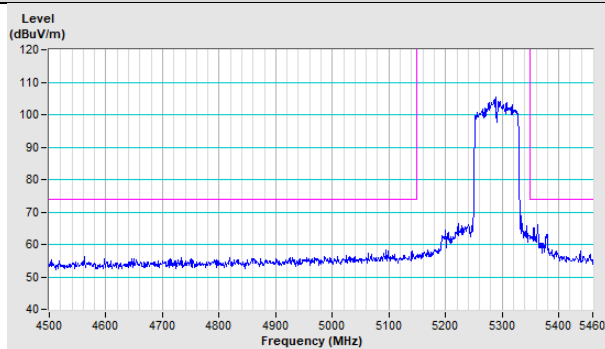
Horizontal (Peak)



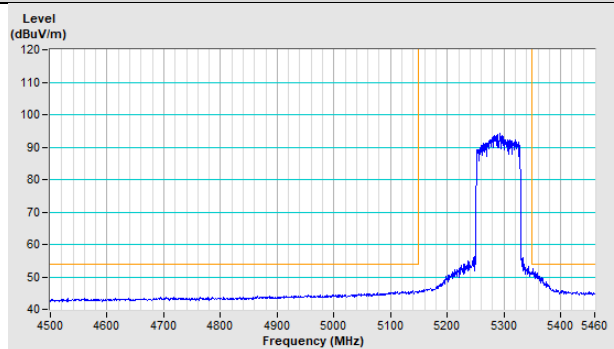
Horizontal (Average)



Vertical (Peak)

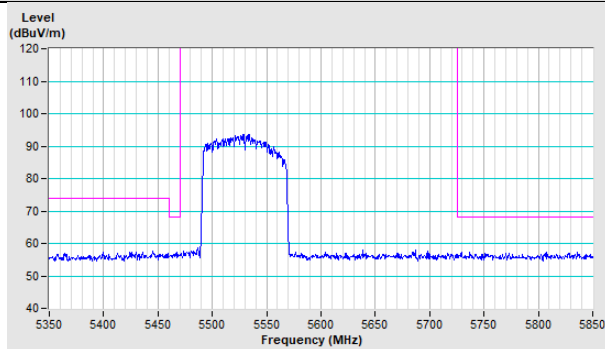


Vertical (Average)

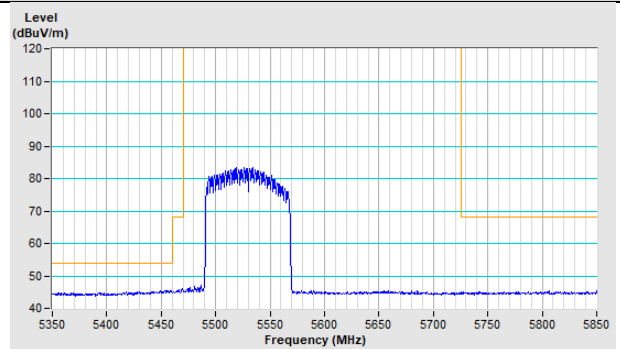


802.11ac (VHT80) Channel 106

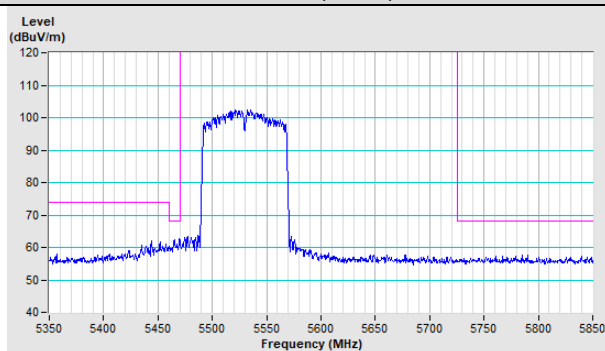
Horizontal (Peak)



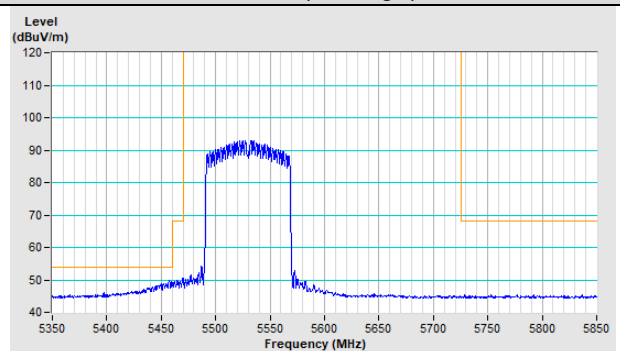
Horizontal (Average)



Vertical (Peak)

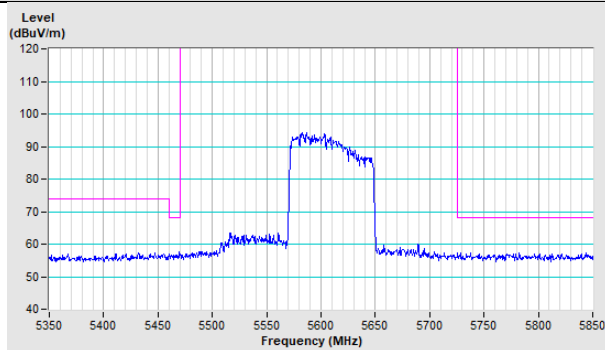


Vertical (Average)

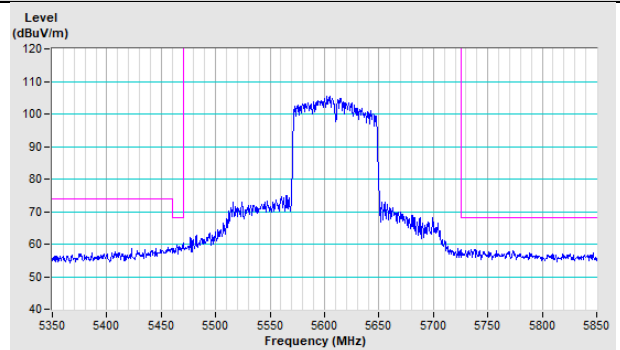


802.11ac (VHT80) Channel 122

Horizontal (Peak)

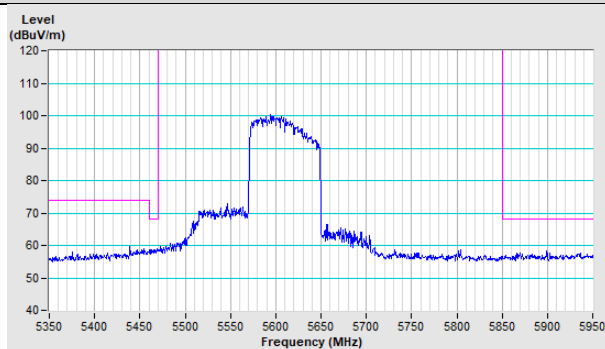


Vertical (Peak)

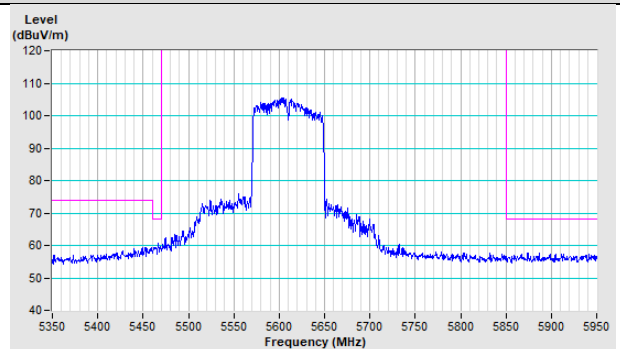


802.11ac (VHT80) Channel 138

Horizontal (Peak)



Vertical (Peak)



Appendix – Information of the Testing Laboratories

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

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

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety

Tel: 886-3-3183232

Fax: 886-3-3270892

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.

--- END ---