

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBDKG-WTW-P23060048-1

FCC ID: JNZVR0035

Product: Shared Desk Docking Station

Brand: logi

Model No.: VR0035

Received Date: 2023/4/20

Test Date: 2023/5/9 ~ 2023/6/27

Issued Date: 2023/7/20

Applicant: Logitech Far East Ltd.

Address: 3930 North First Street, San Jose, California 95134

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

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

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

FCC Registration / 723255 / TW2022

Designation Number:

Approved by:



, Date:

2023/7/20

Wen Yu / Assistant Manager

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Prepared by : Vito Lung / Specialist

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Table of Contents

Release Control Record	4
1 Certificate.....	5
2 Summary of Test Results	6
2.1 Measurement Uncertainty	6
2.2 Supplementary Information	6
3 General Information	7
3.1 General Description of EUT	7
3.2 Antenna Description of EUT	8
3.3 Channel List.....	9
3.4 Test Mode Applicability and Tested Channel Detail.....	11
3.5 Duty Cycle of Test Signal.....	13
3.6 Test Program Used and Operation Descriptions	15
3.7 Connection Diagram of EUT and Peripheral Devices	15
3.8 Configuration of Peripheral Devices and Cable Connections	16
4 Test Instruments	17
4.1 26 dB Bandwidth	17
4.2 RF Output Power.....	17
4.3 Power Spectral Density	17
4.4 6 dB Bandwidth	17
4.5 Occupied Bandwidth.....	17
4.6 Frequency Stability	18
4.7 AC Power Conducted Emissions	18
4.8 Unwanted Emissions below 1 GHz	19
4.9 Unwanted Emissions above 1 GHz.....	19
5 Limits of Test Items.....	20
5.1 26 dB Bandwidth	20
5.2 RF Output Power.....	20
5.3 Power Spectral Density	20
5.4 6 dB Bandwidth	20
5.5 Occupied Bandwidth.....	20
5.6 Frequency Stability	20
5.7 AC Power Conducted Emissions	21
5.8 Unwanted Emissions below 1 GHz	21
5.9 Unwanted Emissions above 1 GHz.....	22
6 Test Arrangements.....	23
6.1 26 dB Bandwidth	23
6.1.1 Test Setup	23
6.1.2 Test Procedure.....	23
6.2 RF Output Power.....	24
6.2.1 Test Setup	24
6.2.2 Test Procedure.....	24
6.3 Power Spectral Density	25
6.3.1 Test Setup	25
6.3.2 Test Procedure.....	25
6.4 6 dB Bandwidth	26
6.4.1 Test Setup	26
6.4.2 Test Procedure.....	26
6.5 Occupied Bandwidth.....	26
6.5.1 Test Setup	26
6.5.2 Test Procedure.....	26
6.6 Frequency Stability	27
6.6.1 Test Setup	27
6.6.2 Test Procedure.....	27
6.7 AC Power Conducted Emissions	28

6.7.1	Test Setup	28
6.7.2	Test Procedure	28
6.8	Unwanted Emissions below 1 GHz	29
6.8.1	Test Setup	29
6.8.2	Test Procedure	30
6.9	Unwanted Emissions above 1 GHz	31
6.9.1	Test Setup	31
6.9.2	Test Procedure	31
7	Test Results of Test Item	32
7.1	26 dB Bandwidth	32
7.2	RF Output Power	36
7.3	Power Spectral Density	41
7.4	6 dB Bandwidth	45
7.5	Occupied Bandwidth	47
7.6	Frequency Stability	52
7.7	AC Power Conducted Emissions	53
7.8	Unwanted Emissions below 1 GHz	55
7.9	Unwanted Emissions above 1 GHz	57
8	Pictures of Test Arrangements	153
9	Information of the Testing Laboratories	154

Release Control Record

Issue No.	Description	Date Issued
RFBDKG-WTW-P23060048-1	Original release.	2023/7/20

1 Certificate

Product: Shared Desk Docking Station

Brand: logi

Test Model: VR0035

Sample Status: PB2

Applicant: Logitech Far East Ltd.

Test Date: 2023/5/9 ~ 2023/6/27

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

Measurement ANSI C63.10-2013

procedure: KDB 789033 D02 General UNII Test Procedure New Rules v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	Pass	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -21.32 dB at 0.15000 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -4.0 dB at 503.03 MHz
15.407(b) (1/10) 15.407(b) (2/10) 15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -4.1 dB at 5150.00, 5457.00, 5725.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

Note: 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:

Parameter	Specification	Expanded Uncertainty (k=2) (±)
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.1 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.0 dB
	18 GHz ~ 40 GHz	5.3 dB

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

Product	Shared Desk Docking Station
Brand	logi
Test Model	VR0035
Status of EUT	PB2
Power Supply Rating	Refer to Note
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode
Modulation Technology	OFDM
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 150 Mbps 802.11ac: up to 433.3 Mbps
Operating Frequency	5.18 GHz ~ 5.24 GHz 5.26 GHz ~ 5.32 GHz 5.5 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20): 25 802.11n (HT40), 802.11ac (VHT40): 12 802.11ac (VHT80): 6
Output Power	5.18 GHz ~ 5.24 GHz : 152.405 mW (21.83 dBm) 5.26 GHz ~ 5.32 GHz : 159.956 mW (22.04 dBm) 5.5 GHz ~ 5.72 GHz : 135.207 mW (21.31 dBm) 5.745 GHz ~ 5.825 GHz : 133.045 mW (21.24 dBm)
EUT Category	Client device

Note:

1. There are WLAN (2.4 GHz) and WLAN (5 GHz) technology used for the EUT.
2. The EUT uses following accessories.

1. The EOP uses following accessories:

AC Adapter			
Brand	Model	Part Number	Specification
FSP GROUP INC.	FSP180-AJAN3	534-000947	AC Input : 100-240V,2.3A,50/60Hz DC Output : 19.5V, 9.23A, 50/60Hz, 180.0W DC Output Cable : 1.76m with one core Plug : US Manufacturer : FSP Group Inc.
USB type C to type C Cable			
Brand	Model	Specification	
logi	502-001494	Signal Line : shielded with one core,150cm	
Power cable			
Brand	Model	Specification	
logi	US:502-001445	Signal Line : unshielded, 1.6m with one core	

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna NO.	RF Chain NO.	Brand	Model	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type
1	chain0	INPAQ	WA-P-LB-02-974	3.68	2.4~2.4835GHz	PIFA	ipex(MHF)
				4.36	5.15~5.25GHz		
				4.36	5.25~5.35GHz		
				4.4	5.47~5.725GHz		
				4.32	5.725~5.85GHz		
2 nd source antenna	chain0	AWAN	AVP6Y 100000	2.08	2.4~2.4835GHz	PIFA	ipex(MHF)
				3.44	5.15~5.25GHz		
				3.44	5.25~5.35GHz		
				3.1	5.47~5.725GHz		
				2.41	5.725~5.85GHz		

Note: Max. gain was selected for the final test.

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

2. The EUT incorporates a SISO function:

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

3.3 Channel List

FOR 5180 ~ 5320 MHz

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

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

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

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

2 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

FOR 5500 ~ 5720 MHz

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 ~ 5825 MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. 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).
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Following channel(s) was (were) selected for the final test as listed below:

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11ac (VHT20)	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11ac (VHT40)	54, 62, 102, 110, 134, 142	BPSK	MCS0
	802.11ac (VHT80)	58, 106, 122, 138	BPSK	MCS0
RF Output Power	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
Power Spectral Density	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
6 dB Bandwidth	802.11a	144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	138, 155	BPSK	MCS0

Occupied Bandwidth	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
Frequency Stability	802.11a	36	unmodulated	-
AC Power Conducted Emissions	802.11a	52	BPSK	6Mb/s
Unwanted Emissions below 1 GHz	802.11a	52	BPSK	6Mb/s
Unwanted Emissions above 1 GHz	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ac (VHT20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT40)	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	42, 58, 106, 122, 138, 155	BPSK	MCS0

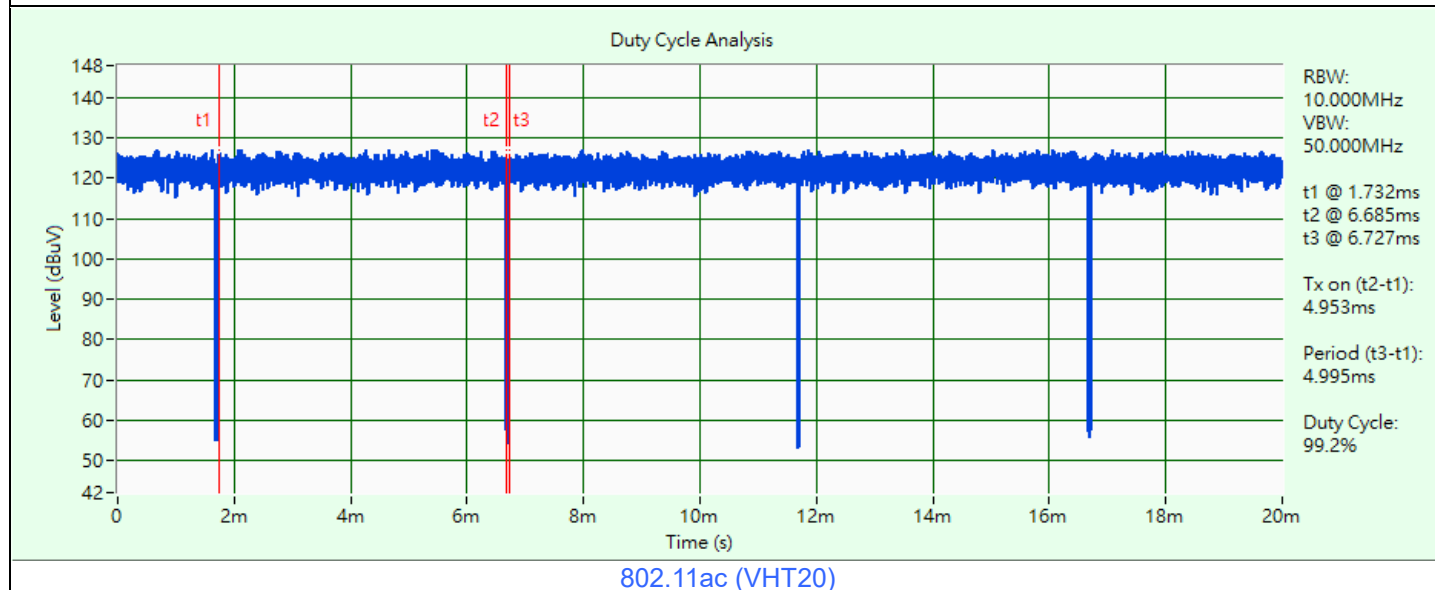
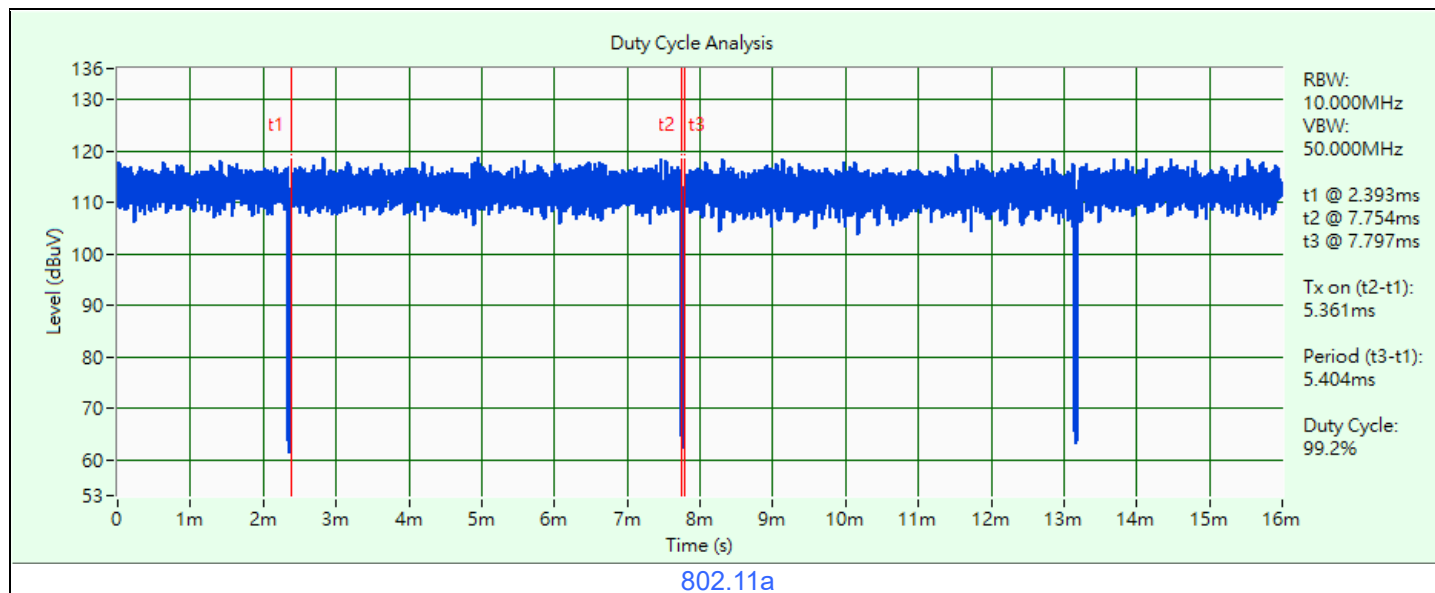
3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = 5.361 ms / 5.404 ms x 100% = 99.2%

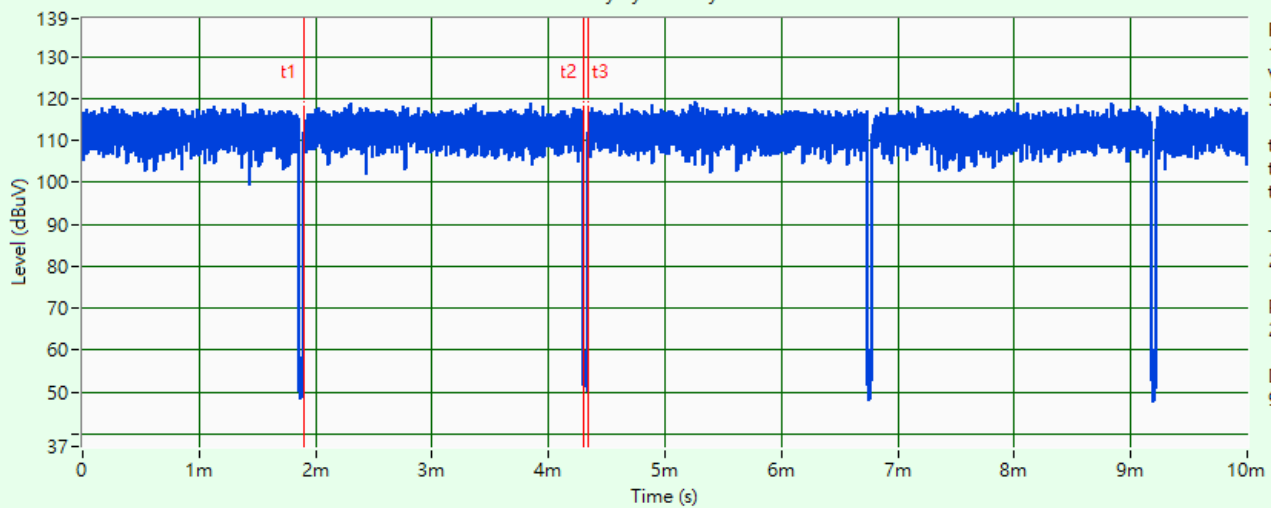
802.11ac (VHT20): Duty cycle = 4.953 ms / 4.995 ms x 100% = 99.2%

802.11ac (VHT40): Duty cycle = 2.397 ms / 2.44 ms x 100% = 98.2%

802.11ac (VHT80): Duty cycle = 0.324 ms / 0.368 ms x 100% = 88.0%, duty factor = $10 * \log(1/\text{Duty cycle}) = 0.55 \text{ dB}$

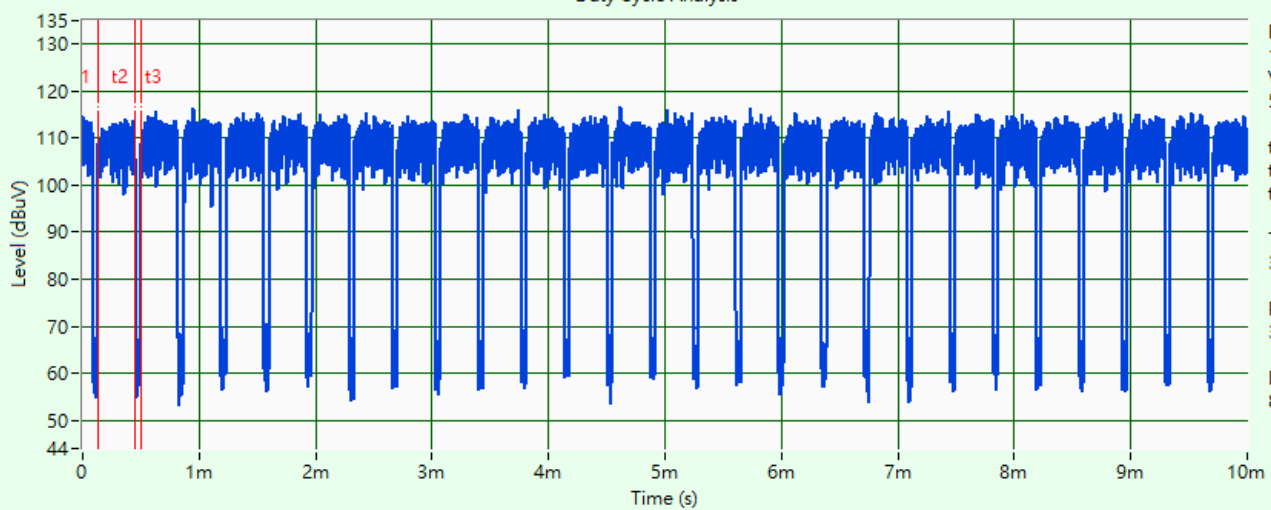


Duty Cycle Analysis



802.11ac (VHT40)

Duty Cycle Analysis

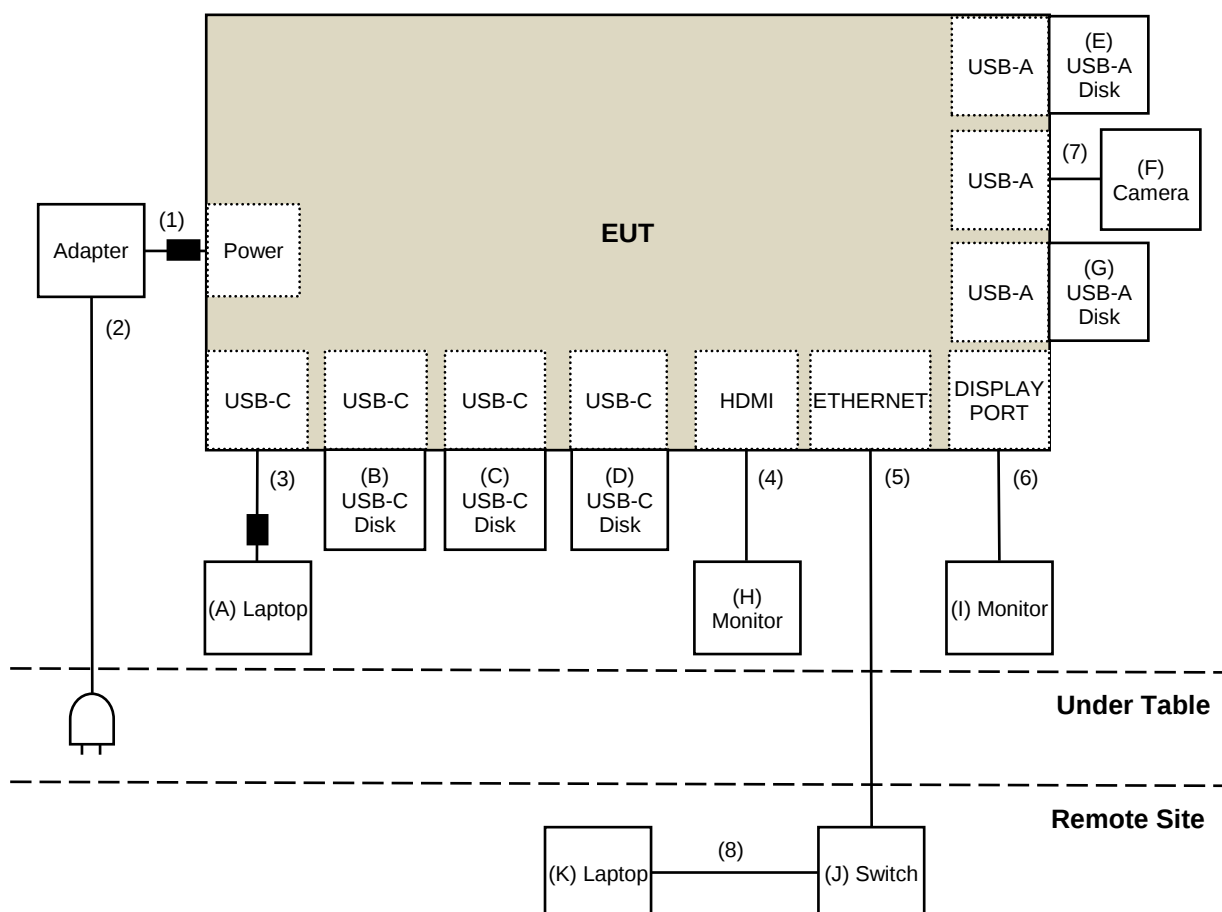


802.11ac (VHT80)

3.6 Test Program Used and Operation Descriptions

Controlling software (spmeta_cotms_20220117_addhqa Meta2) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	DELL	P80F	5GMFM33	DoC	Provided by Lab
B	USB-C Disk	SanDisk	N/A	N/A	N/A	Provided by Lab
C	USB-C Disk	SanDisk	N/A	N/A	N/A	Provided by Lab
D	USB-C Disk	SanDisk	N/A	N/A	N/A	Provided by Lab
E	USB-A Disk	SanDisk	N/A	N/A	N/A	Provided by Lab
F	Camera	logitech	V-U0040	N/A	N/A	Supplied by applicant
G	USB-A Disk	SanDisk	N/A	N/A	N/A	Provided by Lab
H	Monitor	DELL	P2415Q	CN-0J1P7F- QDC00-85L- 13GB-A09	DoC	Provided by Lab
I	Monitor	ASUS	PA279	N5LMTF047641	N/A	Provided by Lab
J	Switch	D-Link	DGS-1005D	DR8WC92000523	N/A	Provided by Lab
K	Laptop	Lenovo	20U5S01X00 L14	PF-1ANPYA	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.76	No	1	Supplied by applicant
2	AC Cable	1	1.6	No	0	Supplied by applicant
3	USB type C to type C Cable	1	1.5	Yes	1	Supplied by applicant
4	HDMI Cable	1	2	Yes	0	Provided by Lab
5	RJ45 Cable	1	10	No	0	Provided by Lab
6	Display Cable	1	2	Yes	0	Provided by Lab
7	USB type A to type C Cable	1	2.2	Yes	0	Supplied by applicant
8	RJ45 Cable	1	3	No	0	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	MDCS18N-10	MDCS18N-10-01	2023/3/27	2024/3/26
MXA Signal Analyzer Keysight	N9020B	MY60112409	2023/2/18	2024/2/17
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/6/22

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	MDCS18N-10	MDCS18N-10-01	2023/3/27	2024/3/26
MXA Signal Analyzer Keysight	N9020B	MY60112409	2023/2/18	2024/2/17
Power Meter Anritsu	ML2495A	1529002	2023/6/17	2024/6/16
Pulse Power Sensor Anritsu	MA2411B	1726434	2023/6/19	2024/6/18
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/6/22

4.3 Power Spectral Density

Refer to section 4.1 to get information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get information of the instruments.

4.6 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
AC Power Source GOOD WILL	6905S	1991551	N/A	N/A
Fixed Attenuator Woken	MDCS18N-10	MDCS18N-10-01	2023/3/27	2024/3/26
MXA Signal Analyzer Keysight	N9020B	MY60112409	2023/2/18	2024/2/17
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	2022/12/26	2023/12/25
True RMS Clamp Meter Fluke	325	31130711WS	2023/6/8	2024/6/7

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/6/22

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	N/A	EMC-01	2022/9/27	2023/9/26
EMI Test Receiver R&S	ESCS 30	847124/029	2022/10/14	2023/10/13
Fixed Attenuator STI	STI02-2200-10	005	2022/8/24	2023/8/23
LISN R&S	ESH3-Z5	848773/004	2022/10/18	2023/10/17
RF Coaxial Cable JYEBO	5D-FB	COCCAB-001	2022/8/24	2023/8/23
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2023/6/20

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-0942	2022/10/20	2023/10/19
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-01	2022/12/28	2023/12/27
Loop Antenna Electro-Metrics	EM-6879	264	2023/2/21	2024/2/20
MXA Signal Analyzer Keysight	N9020B	MY60112410	2023/3/6	2024/3/5
MXE EMI Receiver Keysight	N9038A	MY59050100	2023/6/13	2024/6/12
Preamplifier EMCI	EMC330N	980852	2023/2/20	2024/2/19
	EMC001340	980142	2023/5/8	2024/5/7
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-001	2022/12/19	2023/12/18
		LOOPCAB-002	2022/12/19	2023/12/18
RF Coaxial Cable PEWC	8D	966-6-1	2023/4/6	2024/4/5
		966-6-2	2023/4/6	2024/4/5
		966-6-3	2023/4/6	2024/4/5
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 6.
2. Tested Date: 2023/6/27

4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-2035	2022/11/13	2023/11/12
	BBHA 9170	BBHA9170519	2022/11/13	2023/11/12
MXA Signal Analyzer Keysight	N9020B	MY60112410	2023/3/6	2024/3/5
MXE EMI Receiver Keysight	N9038A	MY59050100	2022/6/20 2023/6/13	2023/6/19 2024/6/12
Preamplifier EMCI	EMC12630SE	980385	2022/8/15	2023/8/14
	EMC184045SE	980387	2022/12/28	2023/12/27
RF Coaxial Cable EMCI	EMC-KM-KM-4000	200214	2023/2/20	2024/2/19
	EMC101G-KM-KM-10000	210708	2022/11/4	2023/11/3
	EMC102-KM-KM-1200	160924	2022/12/28	2023/12/27
	EMC104-SM-SM-1300	210205	2023/5/8	2024/5/7
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 6.
2. Tested Date: 2023/5/9 ~ 2023/6/26

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

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

Operation Band	Limit
U-NII-2A	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	250 mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

5.3 Power Spectral Density

Operation Band	EUT Category	Limit
U-NII-1	Outdoor Access Point	17 dBm/MHz
	Fixed point-to-point Access Point	
	Indoor Access Point	
	Mobile and Portable client device	11 dBm/MHz

Operation Band	Limit
U-NII-2A	11 dBm/MHz
U-NII-2C	11 dBm/MHz
U-NII-3	30 dBm/500 kHz

5.4 6 dB Bandwidth

Within the 5.725-5.850 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.5 Occupied Bandwidth

The results are for reference only.

5.6 Frequency Stability

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

5.7 AC Power Conducted Emissions

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

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.8 Unwanted Emissions below 1 GHz

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

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

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

5.9 Unwanted Emissions above 1 GHz

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

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

Notes:

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

Limits of unwanted emission out of the restricted bands

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

For transmitters operating in the 5.15-5.25 GHz band:

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

For transmitters operating in the 5.25-5.35 GHz band:

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

For transmitters operating in the 5.47-5.725 GHz band:

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

For transmitters operating in the 5.725-5.850 GHz band:

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

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

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

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

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

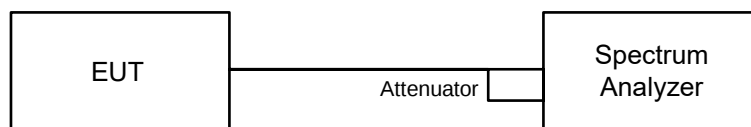
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

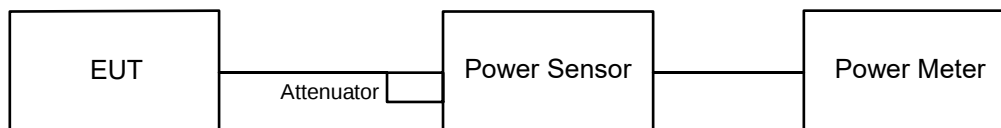


6.1.2 Test Procedure

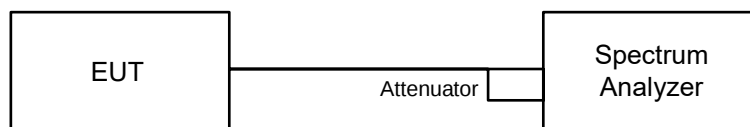
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement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

6.2 RF Output Power

6.2.1 Test Setup



For channel straddling:



6.2.2 Test Procedure

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

For channel straddling:

Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

Note: When measuring straddle channel power, use compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function, with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.

For channel straddling:

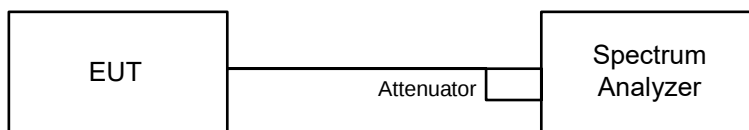
Method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.) Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add 10 log (1/duty cycle).

Note: When measuring straddle channel power, use compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function, with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

For specified measurement bandwidth 1 MHz:

Method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add 10 log (1/duty cycle).

For specified measurement bandwidth 500 kHz:

Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value

For specified measurement bandwidth 500 kHz:

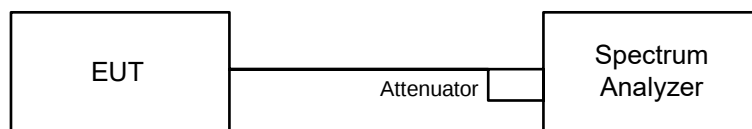
Method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".

- f. Trace average at least 100 traces in power averaging mode.
- g. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- h. Record the max value and add 10 log (1/duty cycle).

6.4 6 dB Bandwidth

6.4.1 Test Setup

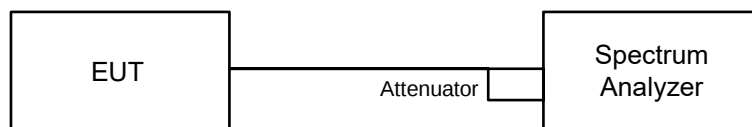


6.4.2 Test Procedure

- a. Set resolution bandwidth (RBW) = 100 kHz.
- b. Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. 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.

6.5 Occupied Bandwidth

6.5.1 Test Setup

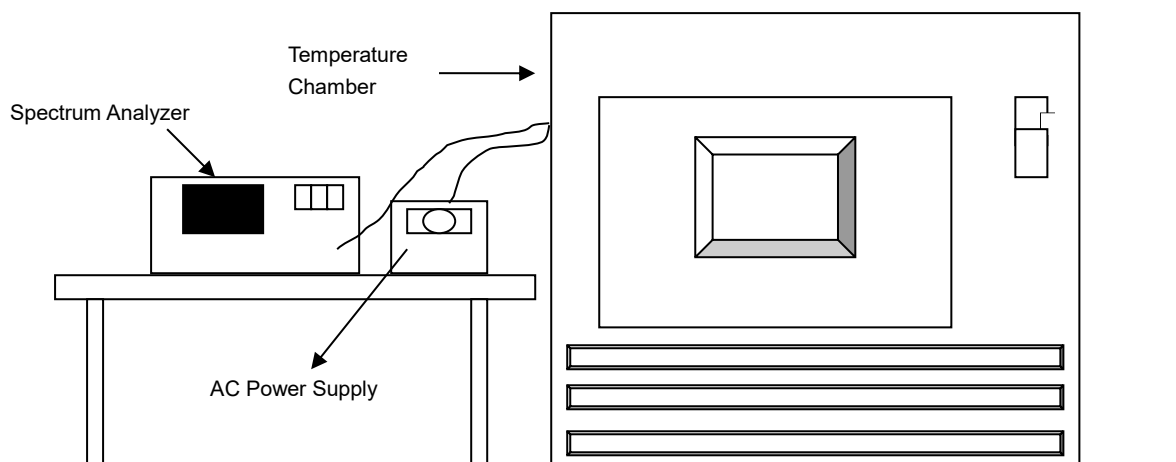


6.5.2 Test Procedure

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.

6.6 Frequency Stability

6.6.1 Test Setup

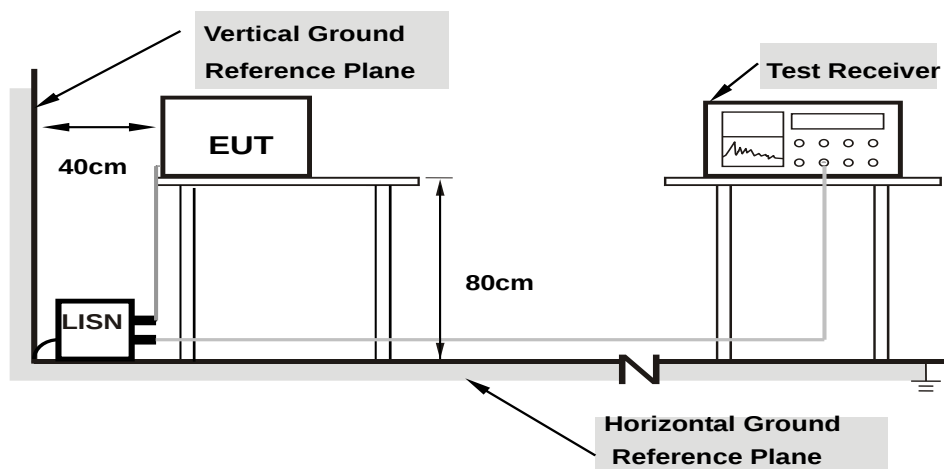


6.6.2 Test Procedure

- 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 the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- 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.

6.7 AC Power Conducted Emissions

6.7.1 Test Setup



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

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

6.7.2 Test Procedure

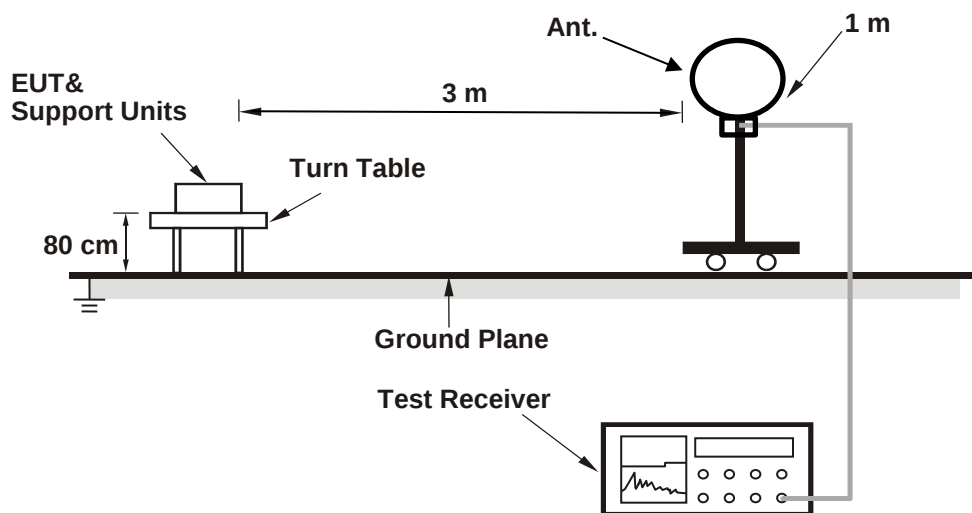
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

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

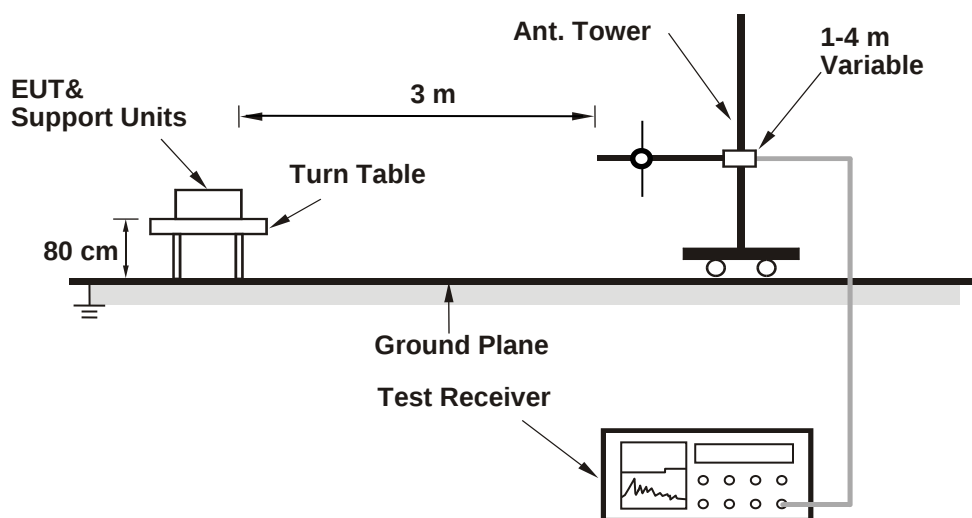
6.8 Unwanted Emissions below 1 GHz

6.8.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.8.2 Test Procedure

For Radiated emission below 30 MHz

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

Notes:

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

For Radiated emission above 30 MHz

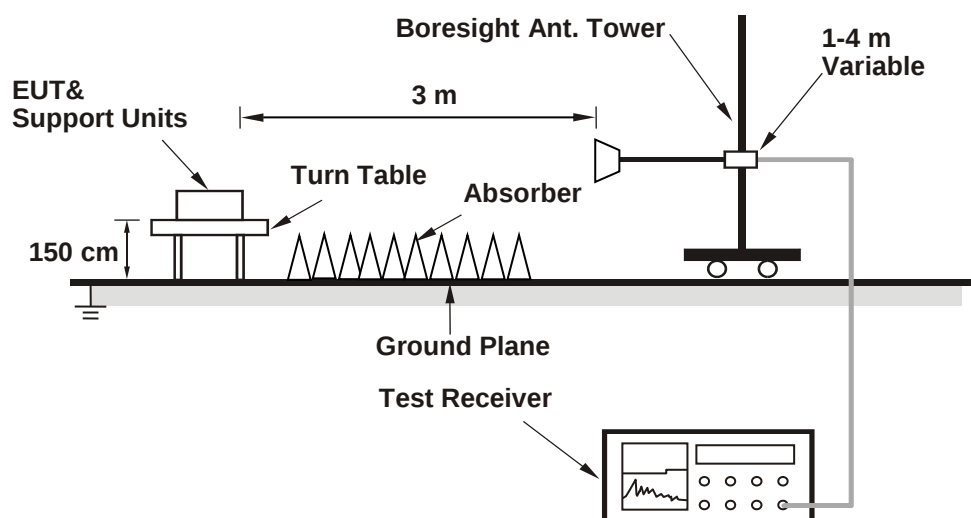
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP), Average detection (AV), Peak detection (PK) at frequency (30MHz to 1 GHz).
2. All modes of operation were investigated and the worst-case emissions are reported.

6.9 Unwanted Emissions above 1 GHz

6.9.1 Test Setup



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

6.9.2 Test Procedure

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

Notes:

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

7 Test Results of Test Item

7.1 26 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	John Peng
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802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
52	5260	43.07
60	5300	38.24
64	5320	22.53
100	5500	20.19
116	5580	43.69
140	5700	20.1
144 (U-NII-2C)	5720	23.34
144 (U-NII-3)	5720	13.02

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	43.07	27.34 > 24
60	5300	38.24	26.82 > 24
64	5320	22.53	24.52 > 24
100	5500	20.19	24.05 > 24
116	5580	43.69	27.4 > 24
140	5700	20.10	24.03 > 24
144 (U-NII-2C)	5720	23.34	24.68 > 24

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

802.11ac (VHT20)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
52	5260	44.95
60	5300	40.99
64	5320	20.59
100	5500	20.54
116	5580	46.15
140	5700	20.39
144 (U-NII-2C)	5720	22.92
144 (U-NII-3)	5720	10.69

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	44.95	27.52	>	24
60	5300	40.99	27.12	>	24
64	5320	20.59	24.13	>	24
100	5500	20.54	24.12	>	24
116	5580	46.15	27.64	>	24
140	5700	20.39	24.09	>	24
144 (U-NII-2C)	5720	22.92	24.6	>	24

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

802.11ac (VHT40)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
54	5270	67.65
62	5310	41.52
102	5510	41.14
110	5550	73.34
134	5670	75.07
142 (U-NII-2C)	5710	56.42
142 (U-NII-3)	5710	21.61

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	67.65	29.3 > 24
62	5310	41.52	27.18 > 24
102	5510	41.14	27.14 > 24
110	5550	73.34	29.65 > 24
134	5670	75.07	29.75 > 24
142 (U-NII-2C)	5710	56.42	28.51 > 24

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

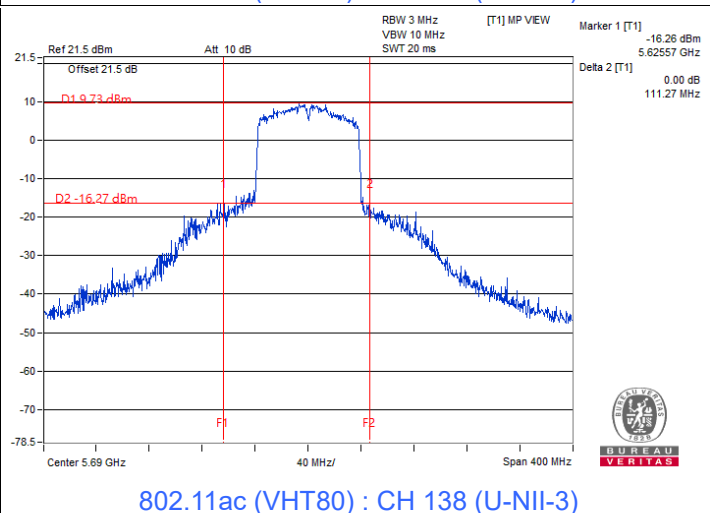
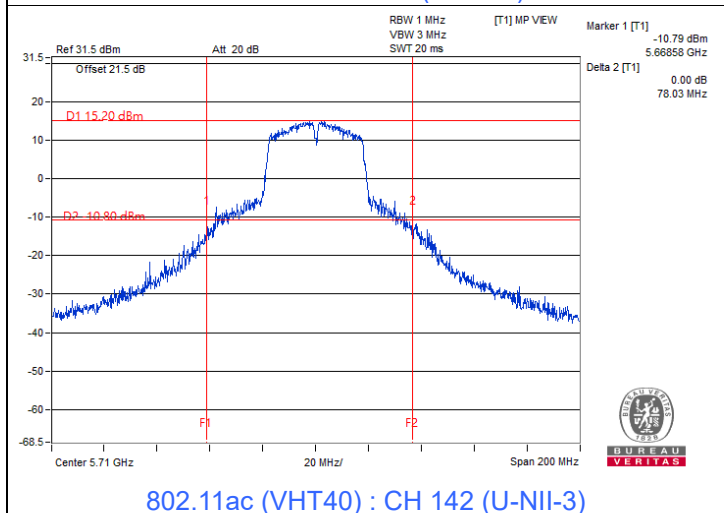
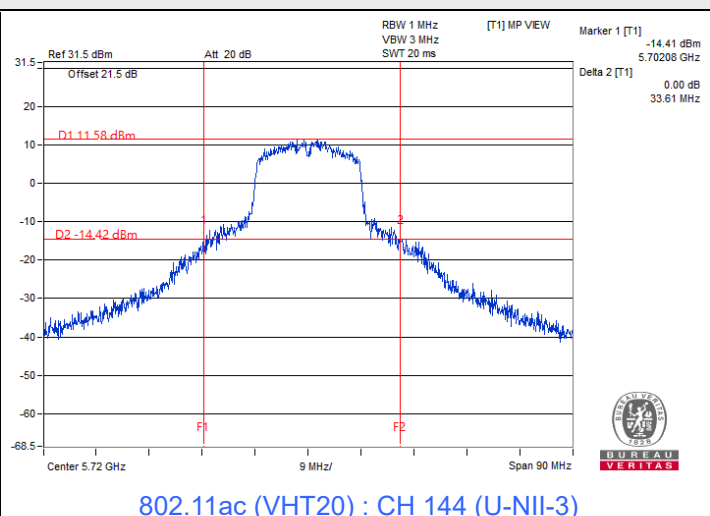
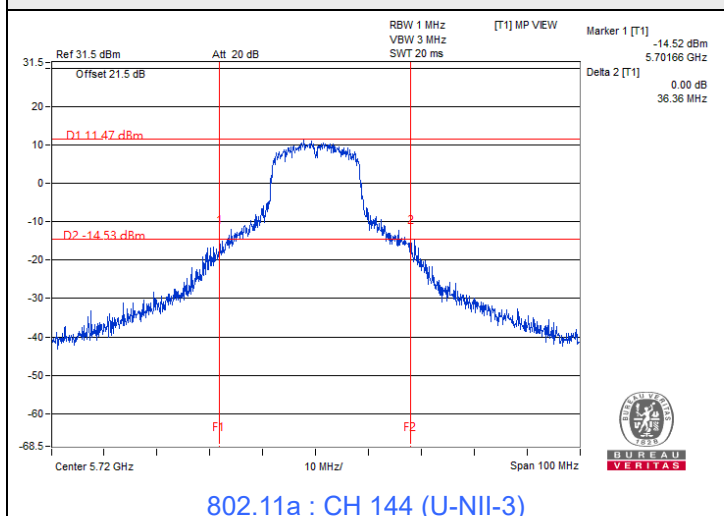
802.11ac (VHT80)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
58	5290	81.23
106	5530	81.18
122	5610	113.7
138 (U-NII-2C)	5690	99.43
138 (U-NII-3)	5690	11.84

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	81.23	30.09 > 24
106	5530	81.18	30.09 > 24
122	5610	113.70	31.55 > 24
138 (U-NII-2C)	5690	99.43	30.97 > 24

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

Spectrum Plot of Minimum Value



Notes:

1. For U-NII-2C straddle channel = 5725 MHz - Marker 1
2. For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz

7.2 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	John Peng
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802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	78.705	18.96	24	Pass
40	5200	137.404	21.38	24	Pass
48	5240	147.571	21.69	24	Pass
52	5260	159.956	22.04	24	Pass
60	5300	149.624	21.75	24	Pass
64	5320	75.683	18.79	24	Pass
100	5500	41.21	16.15	24	Pass
116	5580	132.434	21.22	24	Pass
140	5700	37.068	15.69	24	Pass
*144 (U-NII-2C)	5720	81.096	19.09	24	Pass
*144 (U-NII-3)	5720	13.74	11.38	30	Pass
149	5745	84.333	19.26	30	Pass
157	5785	109.901	20.41	30	Pass
165	5825	110.408	20.43	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 4.36 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.36 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.4 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	54.2	17.34	24	Pass
40	5200	152.405	21.83	24	Pass
48	5240	150.661	21.78	24	Pass
52	5260	127.057	21.04	24	Pass
60	5300	124.738	20.96	24	Pass
64	5320	60.395	17.81	24	Pass
100	5500	31.989	15.05	24	Pass
116	5580	135.207	21.31	24	Pass
140	5700	28.249	14.51	24	Pass
*144 (U-NII-2C)	5720	64.121	18.07	24	Pass
*144 (U-NII-3)	5720	10.765	10.32	30	Pass
149	5745	123.31	20.91	30	Pass
157	5785	123.88	20.93	30	Pass
165	5825	107.399	20.31	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 4.36 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.36 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.4 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
38	5190	52.845	17.23	24	Pass
46	5230	99.312	19.97	24	Pass
54	5270	111.173	20.46	24	Pass
62	5310	40.832	16.11	24	Pass
102	5510	26.363	14.21	24	Pass
110	5550	96.828	19.86	24	Pass
134	5670	70.795	18.50	24	Pass
*142 (U-NII-2C)	5710	68.865	18.38	24	Pass
*142 (U-NII-3)	5710	3.837	5.84	30	Pass
151	5755	131.22	21.18	30	Pass
159	5795	133.045	21.24	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- For U-NII-1, the antenna gain is 4.36 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.36 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.4 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.

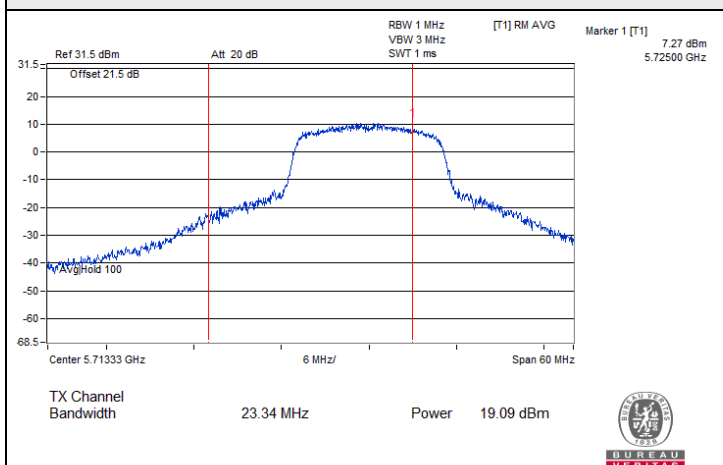
802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
42	5210	42.954	16.33	24	Pass
58	5290	37.154	15.70	24	Pass
106	5530	22.594	13.54	24	Pass
122	5610	74.302	18.71	24	Pass
*138 (U-NII-2C)	5690	80.409	19.05	24	Pass
*138 (U-NII-3)	5690	1.672	2.23	30	Pass
155	5775	74.302	18.71	30	Pass

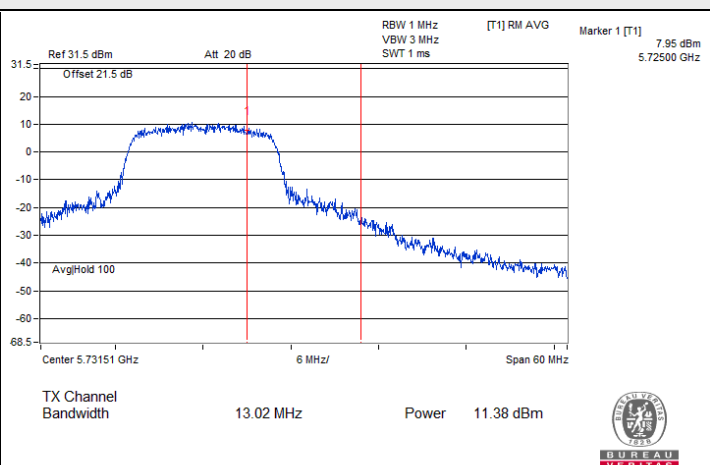
Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 4.36 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 4.36 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 4.4 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 4.32 dBi < 6 dBi, so the output power limit shall not be reduced.

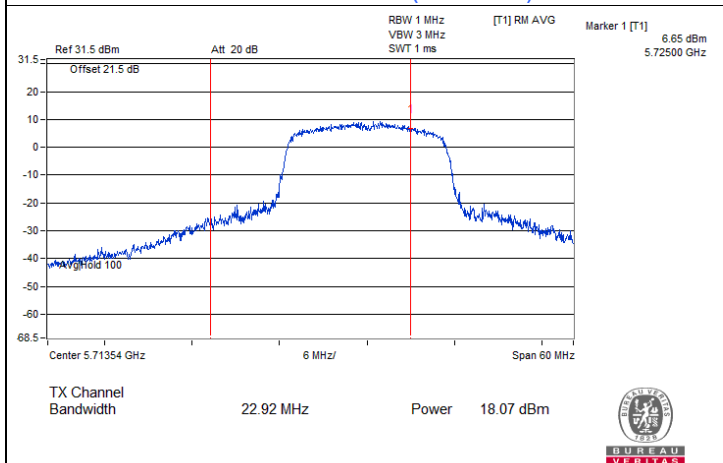
Spectrum Plot for channel straddling



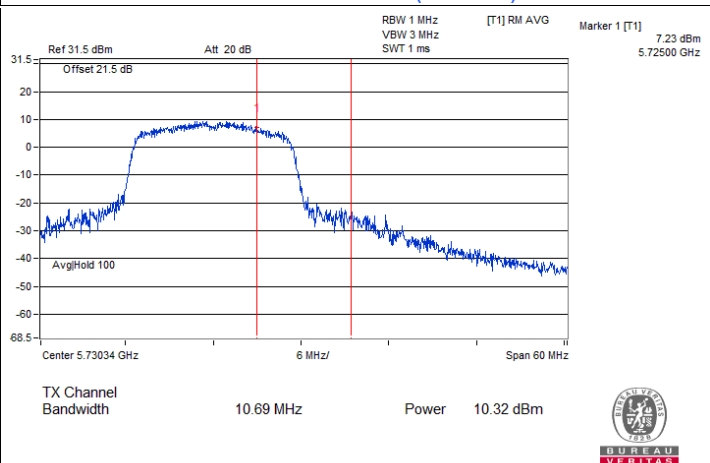
802.11a : CH 144 (U-NII-2C)



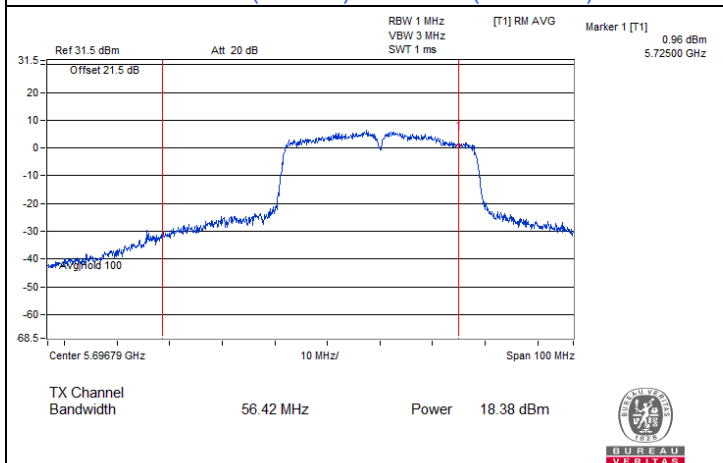
802.11a : CH 144 (U-NII-3)



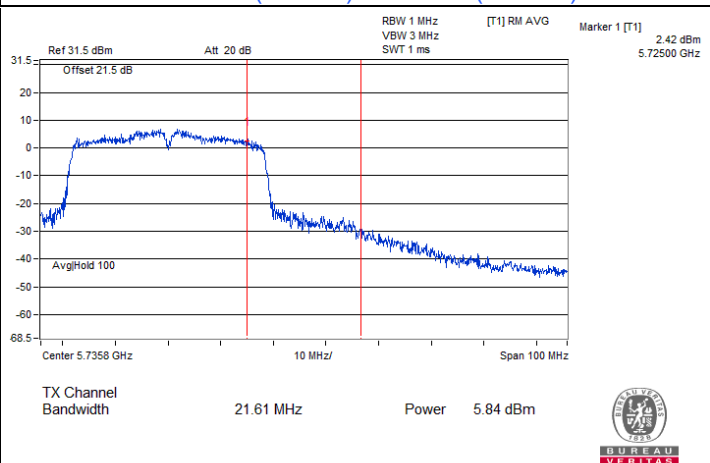
802.11ac (VHT20) : CH 144 (U-NII-2C)



802.11ac (VHT20) : CH 144 (U-NII-3)

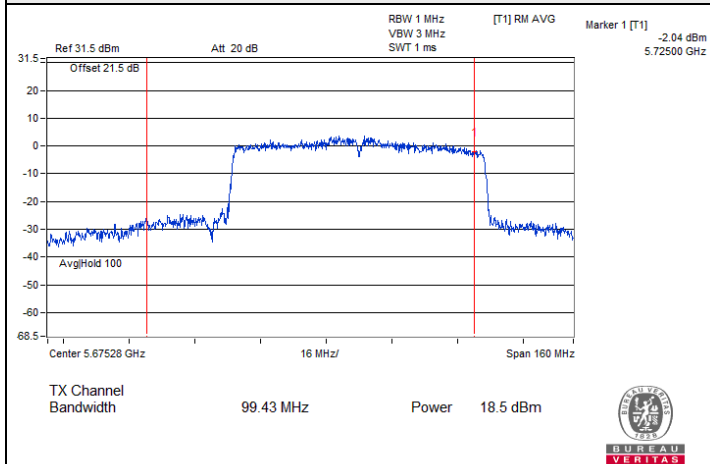


802.11ac (VHT40) : CH 142 (U-NII-2C)

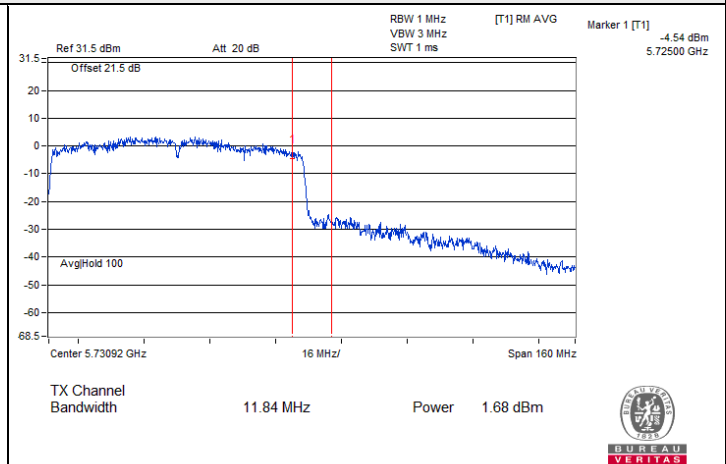


802.11ac (VHT40) : CH 142 (U-NII-3)

Spectrum Plot for channel straddling



802.11ac (VHT80) : CH 138 (U-NII-2C)



802.11ac (VHT80) : CH 138 (U-NII-3)

7.3 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	John Peng
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802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	6.31	11	Pass
40	5200	8.90	11	Pass
48	5240	9.34	11	Pass
52	5260	9.83	11	Pass
60	5300	9.51	11	Pass
64	5320	6.36	11	Pass
100	5500	3.57	11	Pass
116	5580	9.81	11	Pass
140	5700	3.23	11	Pass
144 (U-NII-2C)	5720	8.02	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 4.36 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 4.36 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 4.4 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	5.29	11	Pass
40	5200	9.88	11	Pass
48	5240	9.80	11	Pass
52	5260	9.88	11	Pass
60	5300	9.59	11	Pass
64	5320	5.47	11	Pass
100	5500	2.91	11	Pass
116	5580	9.57	11	Pass
140	5700	2.70	11	Pass
144 (U-NII-2C)	5720	7.88	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 4.36 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 4.36 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 4.4 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
38	5190	2.29	11	Pass
46	5230	5.14	11	Pass
54	5270	5.56	11	Pass
62	5310	0.99	11	Pass
102	5510	-0.73	11	Pass
110	5550	4.93	11	Pass
134	5670	3.43	11	Pass
142 (U-NII-2C)	5710	5.37	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 4.36 dBi < 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 4.36 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 4.4 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
42	5210	-2.09	0.55	-1.54	11	Pass
58	5290	-2.62	0.55	-2.07	11	Pass
106	5530	-5.06	0.55	-4.51	11	Pass
122	5610	0.53	0.55	1.08	11	Pass
138 (U-NII-2C)	5690	0.15	0.55	0.70	11	Pass

Notes:

1. For U-NII-1, the antenna gain is 4.36 dBi < 6 dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 4.36 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 4.4 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	0.97	3.19	30	Pass
149	5745	2.45	4.67	30	Pass
157	5785	2.83	5.05	30	Pass
165	5825	2.92	5.14	30	Pass

Note: For U-NII-3, the antenna gain is 4.32 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	0.8	3.02	30	Pass
149	5745	3.18	5.40	30	Pass
157	5785	3.23	5.45	30	Pass
165	5825	2.63	4.85	30	Pass

Note: For U-NII-3, the antenna gain is 4.32 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
142 (U-NII-3)	5710	-3.36	-1.14	30	Pass
151	5755	0.06	2.28	30	Pass
159	5795	0.02	2.24	30	Pass

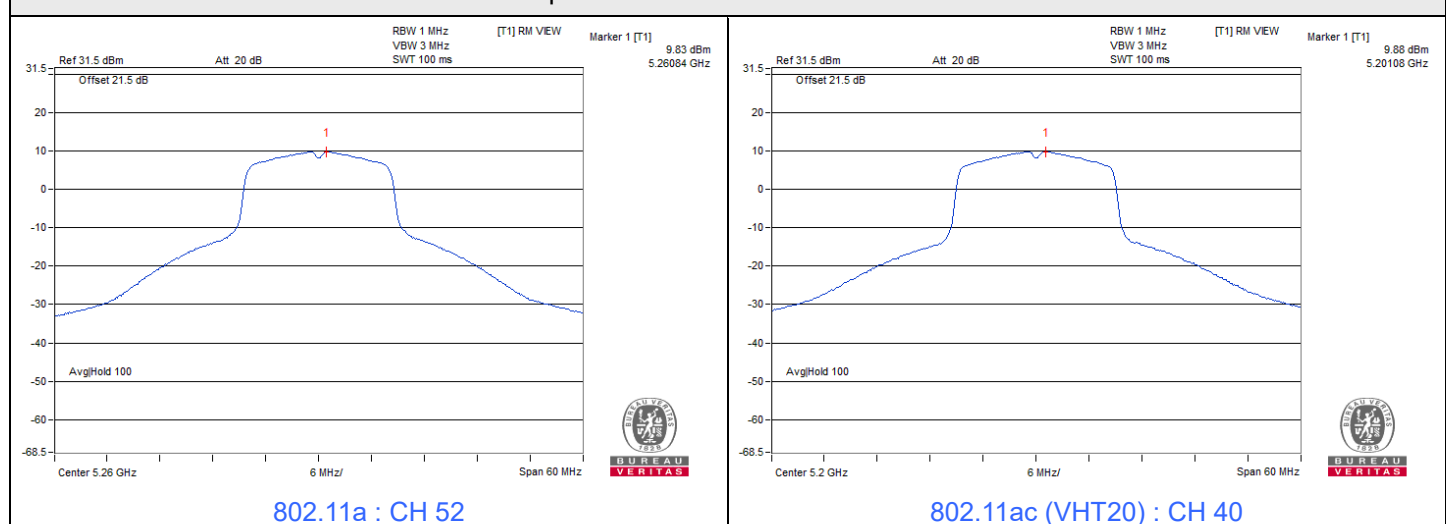
Note: For U-NII-3, the antenna gain is 4.32 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ac (VHT80)

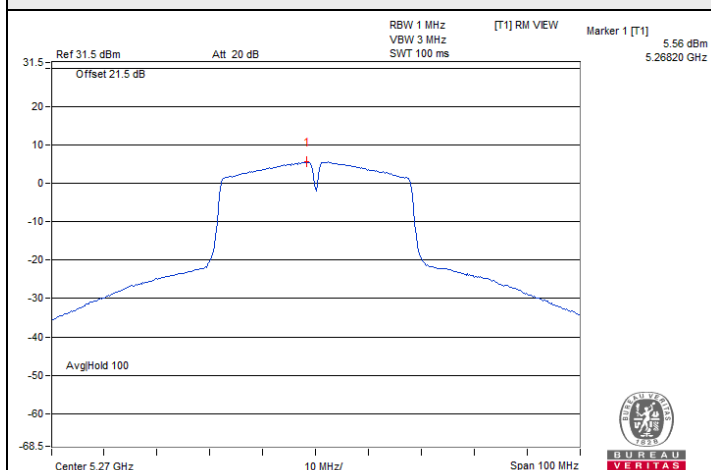
Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
138 (U-NII-3)	5690	-8.98	0.55	-6.21	30	Pass
155	5775	-5.03	0.55	-2.26	30	Pass

Note: For U-NII-3, the antenna gain is 4.32 dBi < 6 dBi, so the power density limit shall not be reduced.

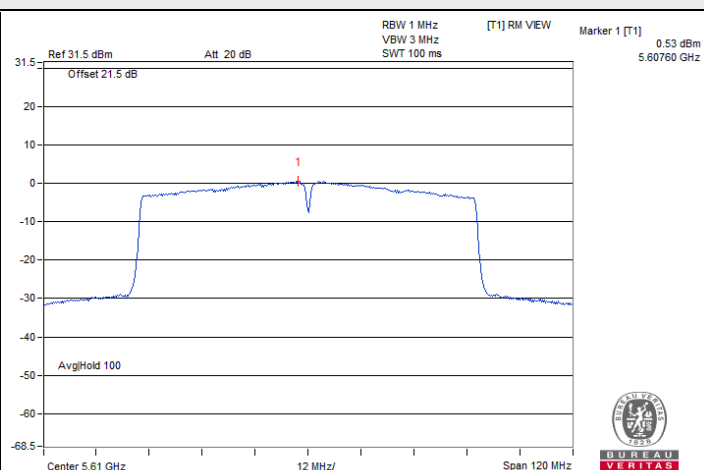
Spectrum Plot of Maximum Value



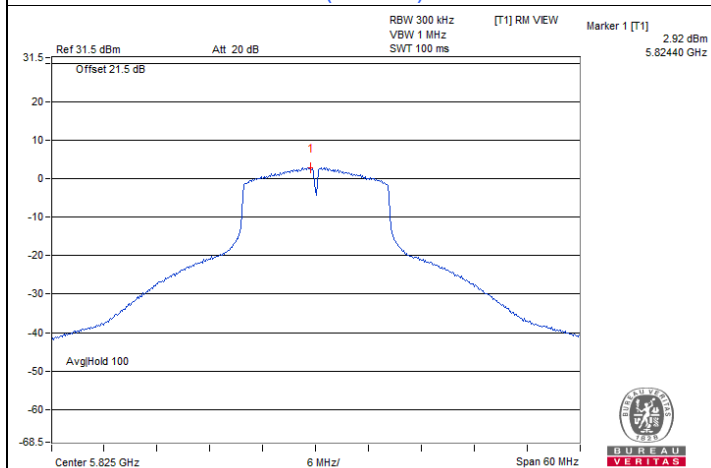
Spectrum Plot of Maximum Value



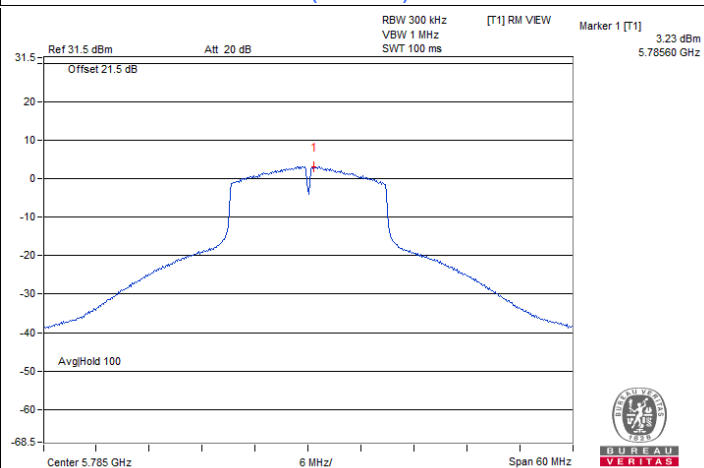
802.11ac (VHT40) : CH 54



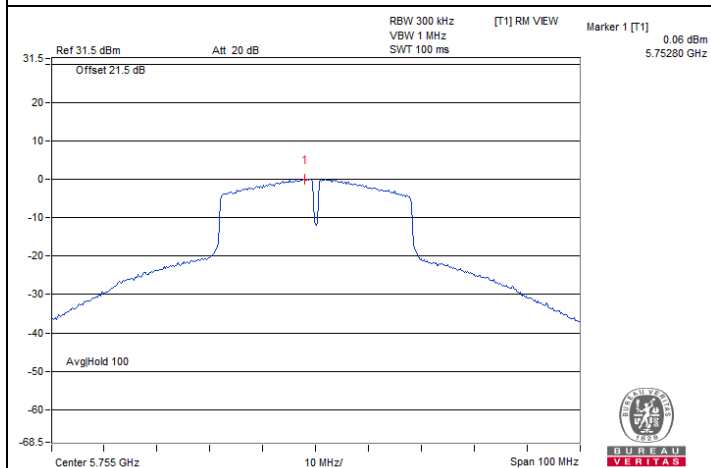
802.11ac (VHT80) : CH 122



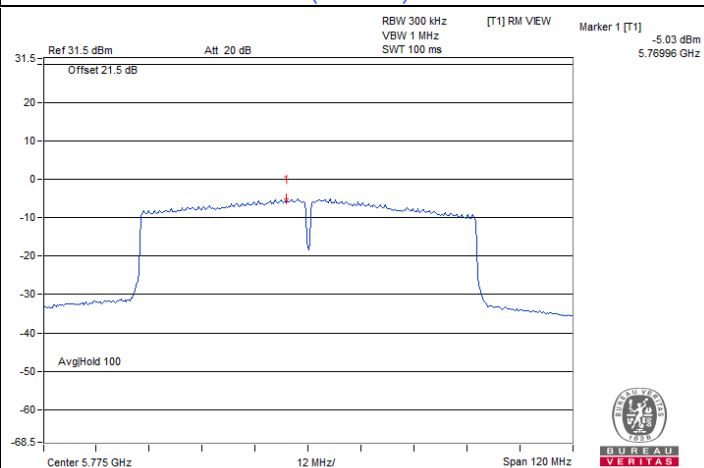
802.11a : CH 165



802.11ac (VHT20) : CH 157



802.11ac (VHT40) : CH 151



802.11ac (VHT80) : CH 155

7.4 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	John Peng
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802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	2.55	0.5	Pass
149	5745	15.09	0.5	Pass
157	5785	14.99	0.5	Pass
165	5825	15.03	0.5	Pass

802.11ac (VHT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	2.54	0.5	Pass
149	5745	15.12	0.5	Pass
157	5785	15.1	0.5	Pass
165	5825	15.02	0.5	Pass

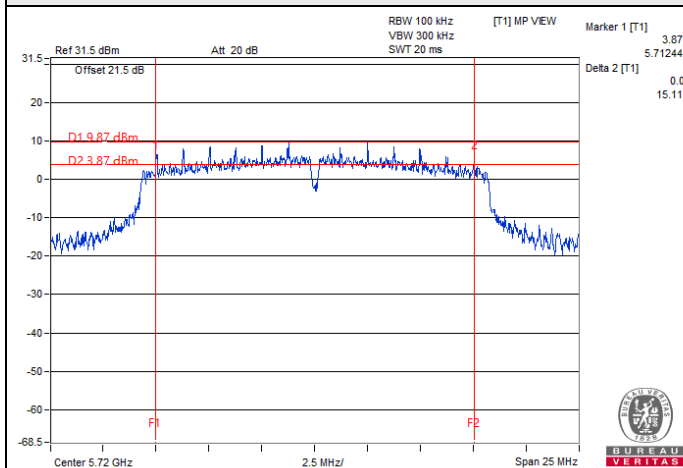
802.11ac (VHT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
142 (U-NII-3)	5710	2.46	0.5	Pass
151	5755	32.59	0.5	Pass
159	5795	33.74	0.5	Pass

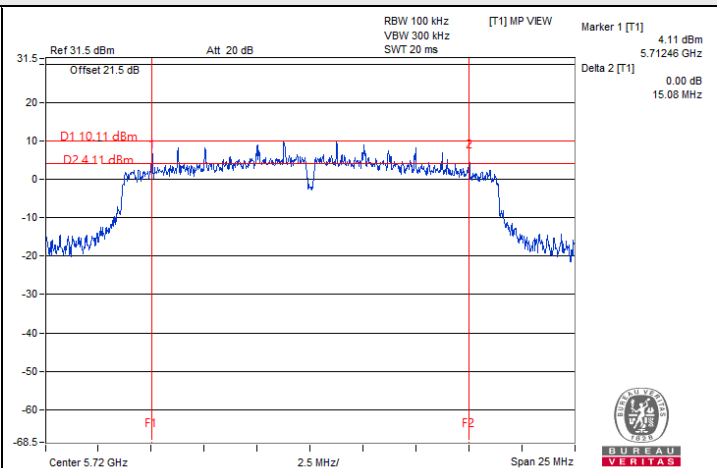
802.11ac (VHT80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
138 (U-NII-3)	5690	2.52	0.5	Pass
155	5775	75.14	0.5	Pass

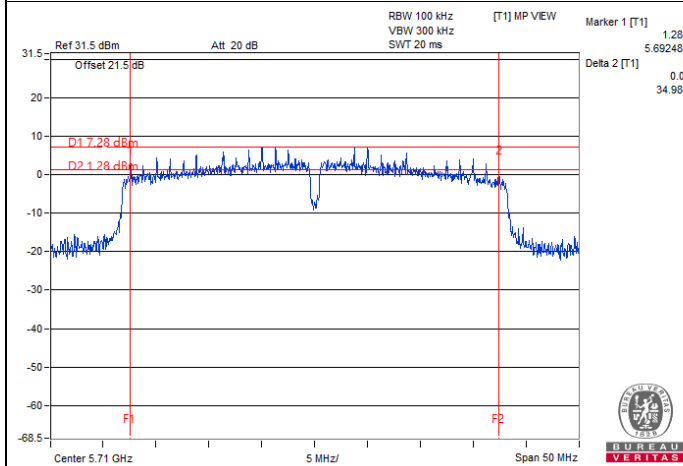
Spectrum Plot of Minimum Value



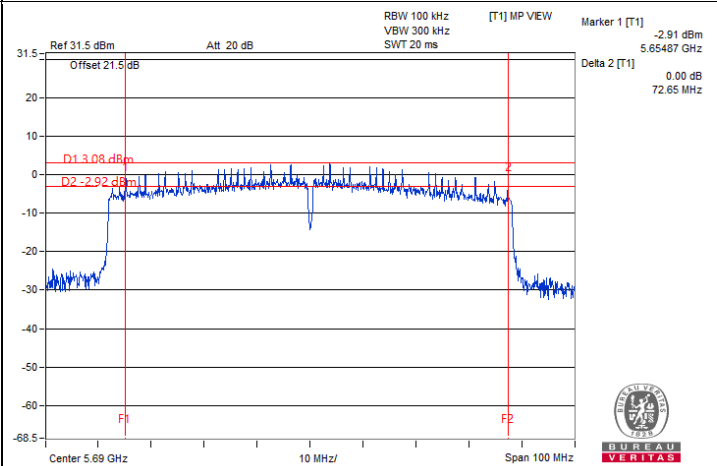
802.11a : CH 144 (U-NII-3)



802.11ac (VHT20) : CH 144 (U-NII-3)



802.11ac (VHT40) : CH 142 (U-NII-3)



802.11ac (VHT80) : CH 138 (U-NII-3)

Note: For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz

7.5 Occupied Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	John Peng
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	16.5
40	5200	17.1
48	5240	17.34
52	5260	21.9
60	5300	17.46
64	5320	16.56
100	5500	16.38
116	5580	23.04
140	5700	16.44
144 (U-NII-2C)	5720	13.34
144 (U-NII-3)	5720	3.34
149	5745	17.28
157	5785	18.12
165	5825	17.94

802.11ac (VHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	17.58
40	5200	18.36
48	5240	18.12
52	5260	23.16
60	5300	18.36
64	5320	17.64
100	5500	17.64
116	5580	23.28
140	5700	17.52
144 (U-NII-2C)	5720	13.82
144 (U-NII-3)	5720	3.82
149	5745	19.62
157	5785	19.74
165	5825	18.66

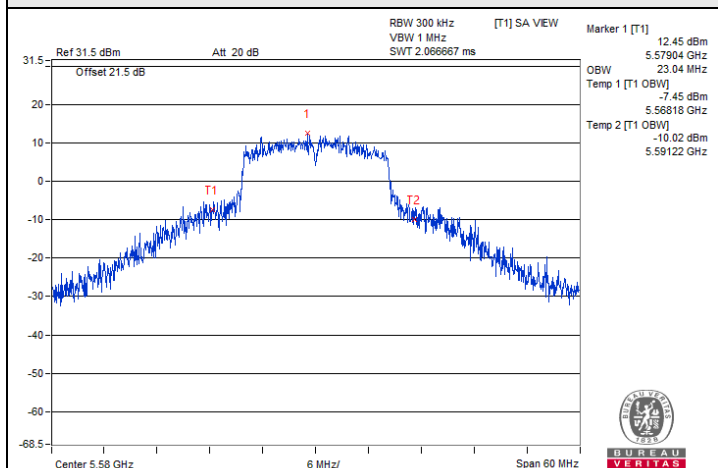
802.11ac (VHT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
38	5190	36.12
46	5230	36.48
54	5270	36.48
62	5310	36.12
102	5510	36.12
110	5550	36.36
134	5670	36.12
142 (U-NII-2C)	5710	33.12
142 (U-NII-3)	5710	3
151	5755	41.04
159	5795	41.16

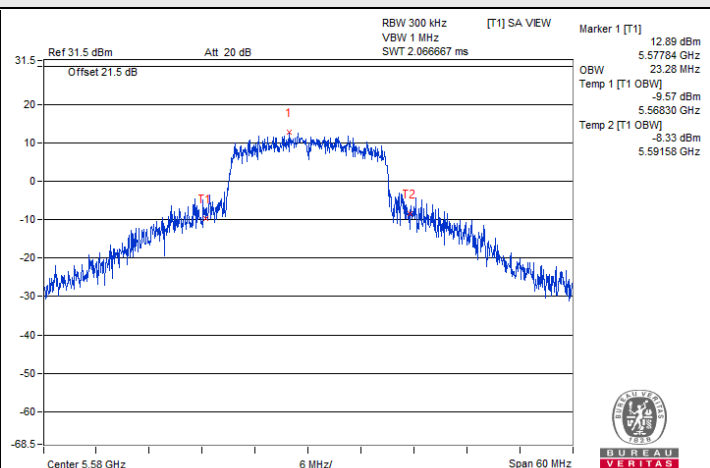
802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
42	5210	75.36
58	5290	75.36
106	5530	75.36
122	5610	75.36
138 (U-NII-2C)	5690	72.92
138 (U-NII-3)	5690	2.68
155	5775	75.6

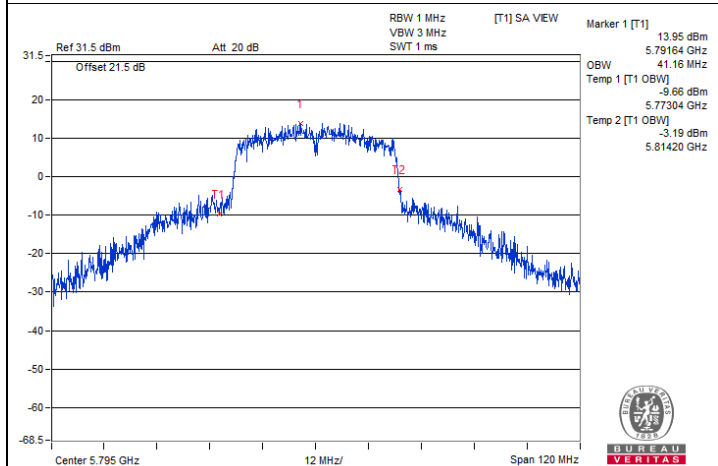
Spectrum Plot of Maximum Value



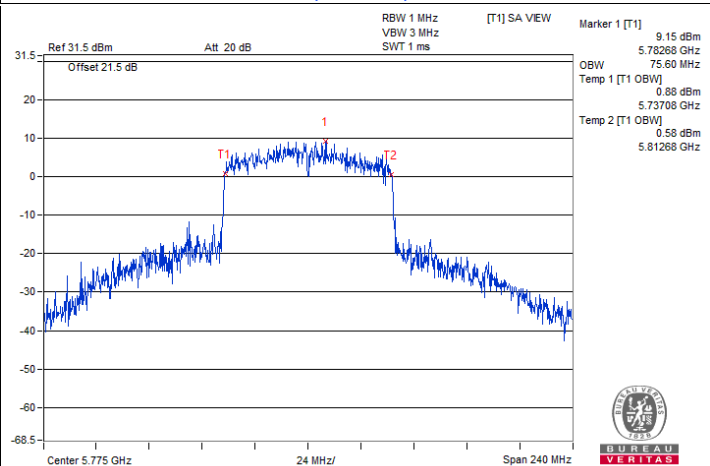
802.11a : CH 116



802.11ac (VHT20) : CH 116

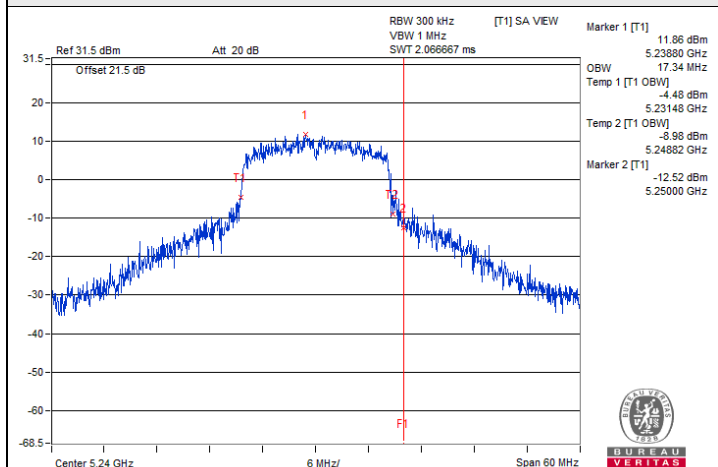


802.11ac (VHT40) : CH 159

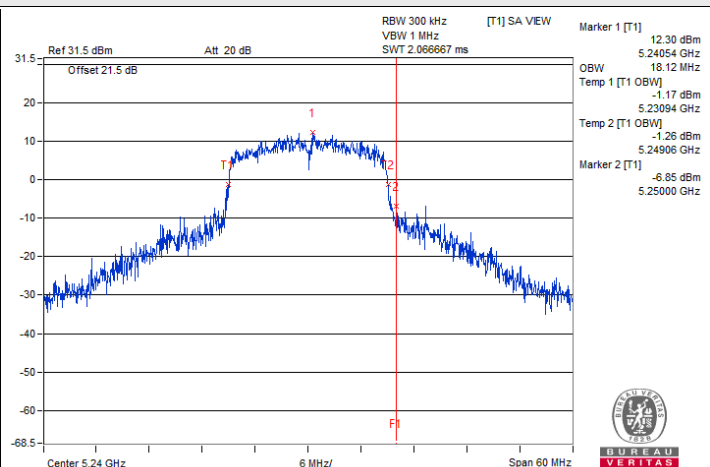


802.11ac (VHT80) : CH 155

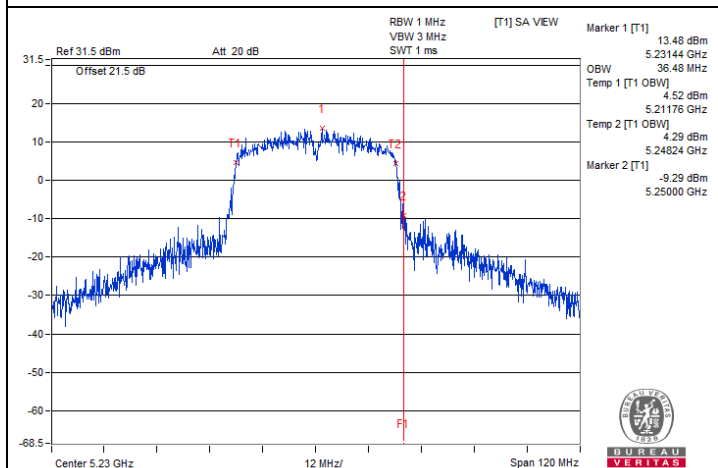
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



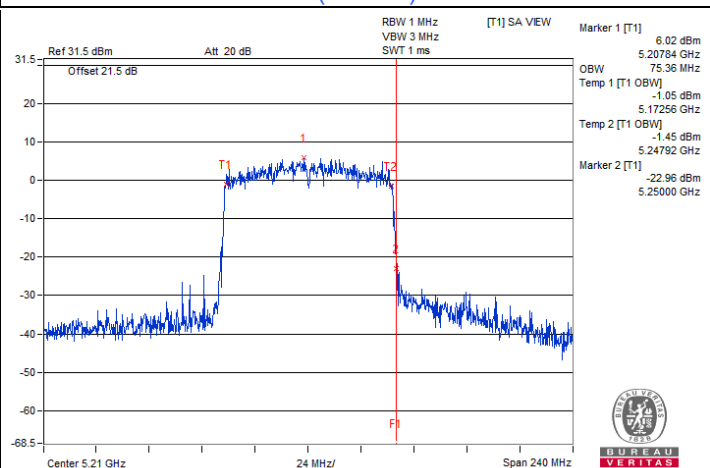
802.11a : CH 48



802.11ac (VHT20) : CH 48

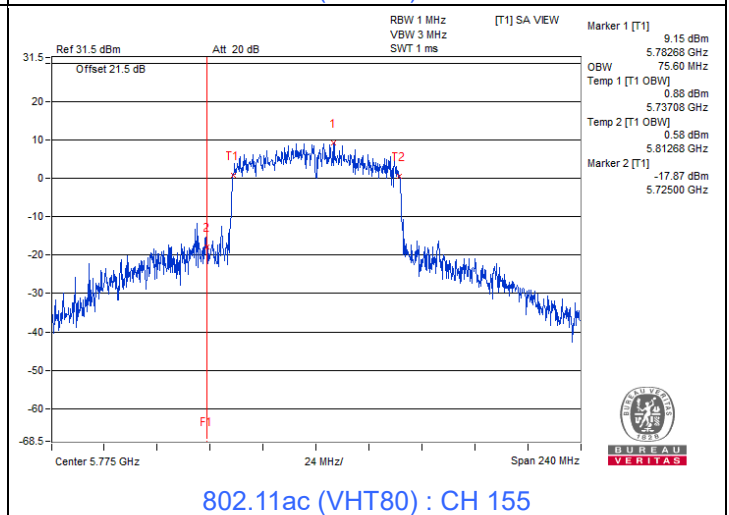
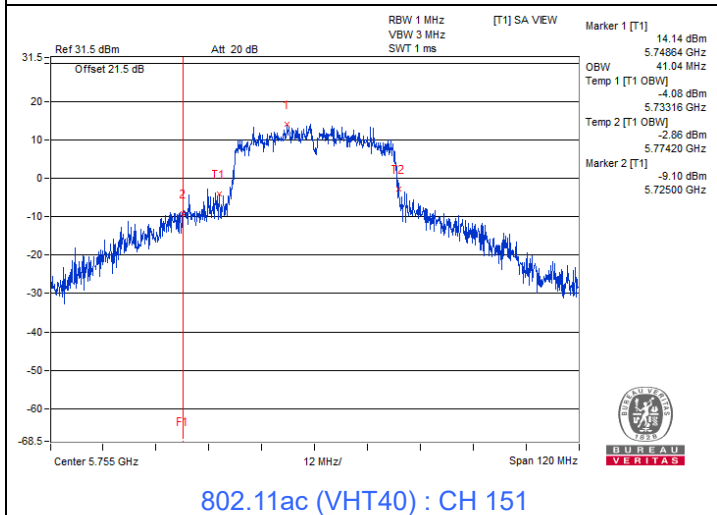
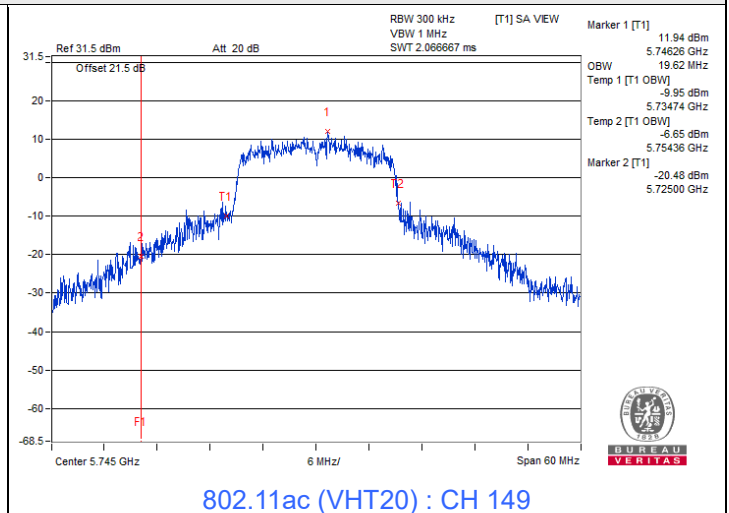
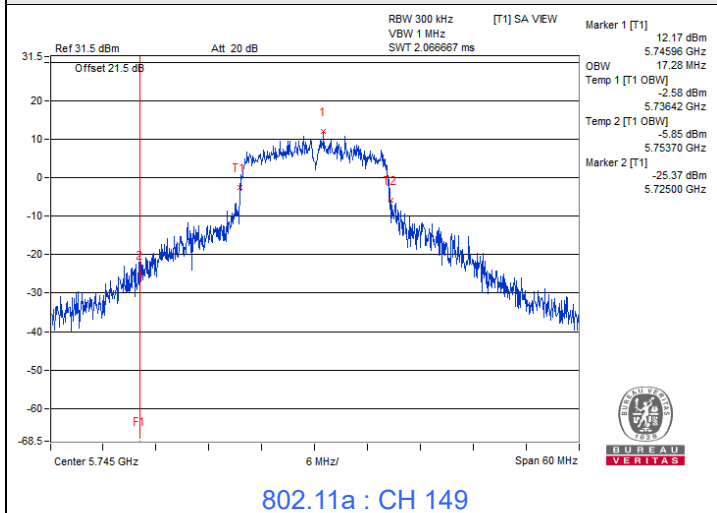


802.11ac (VHT40) : CH 46



802.11ac (VHT80) : CH 42

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



7.6 Frequency Stability

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	John Peng
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802.11a

Frequency Stability Versus Temperature									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
40	120	5180.0264	Pass	5180.0253	Pass	5180.0221	Pass	5180.0264	Pass
30	120	5180.0127	Pass	5180.0086	Pass	5180.012	Pass	5180.012	Pass
20	120	5180.0034	Pass	5180.0061	Pass	5180.0031	Pass	5180.0044	Pass
10	120	5180.0147	Pass	5180.0164	Pass	5180.015	Pass	5180.0154	Pass
0	120	5180.0199	Pass	5180.0197	Pass	5180.0191	Pass	5180.0209	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	138	5180.0075	Pass	5180.0097	Pass	5180.0069	Pass	5180.0075	Pass
	120	5180.0034	Pass	5180.0061	Pass	5180.0031	Pass	5180.0044	Pass
	102	5179.9952	Pass	5179.9955	Pass	5179.997	Pass	5179.9939	Pass

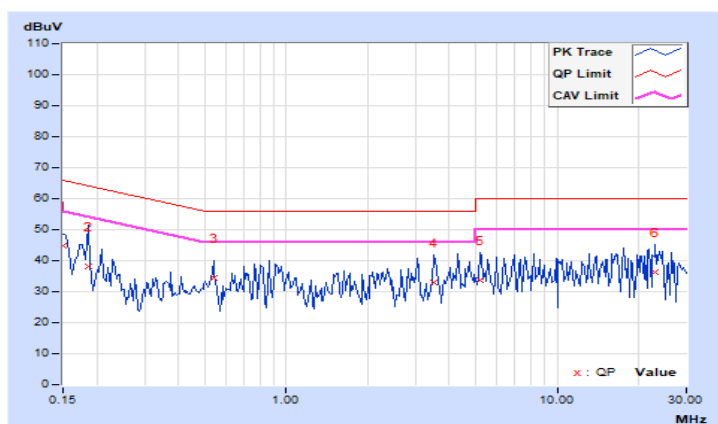
7.7 AC Power Conducted Emissions

RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Sampson Chen		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.97	34.71	17.48	44.68	27.45	66.00	56.00	-21.32	-28.55
2	0.18516	9.97	28.24	12.58	38.21	22.55	64.25	54.25	-26.04	-31.70
3	0.54063	9.99	24.50	13.17	34.49	23.16	56.00	46.00	-21.51	-22.84
4	3.50391	10.15	22.77	8.80	32.92	18.95	56.00	46.00	-23.08	-27.05
5	5.18750	10.24	23.34	9.21	33.58	19.45	60.00	50.00	-26.42	-30.55
6	23.02344	11.10	25.19	8.20	36.29	19.30	60.00	50.00	-23.71	-30.70

Remarks:

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

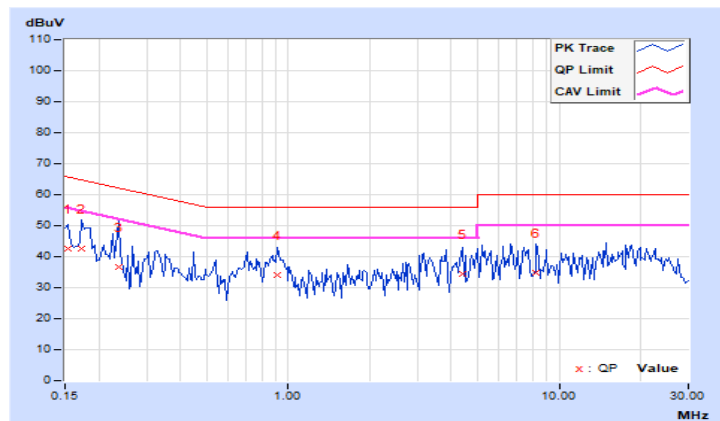


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 68% RH
Tested By	Sampson Chen		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	10.01	32.40	15.46	42.41	25.47	65.79	55.79	-23.38	-30.32
2	0.17344	10.01	32.52	17.57	42.53	27.58	64.79	54.79	-22.26	-27.21
3	0.23594	10.02	26.60	14.03	36.62	24.05	62.24	52.24	-25.62	-28.19
4	0.91172	10.06	23.83	8.93	33.89	18.99	56.00	46.00	-22.11	-27.01
5	4.38672	10.23	24.26	10.11	34.49	20.34	56.00	46.00	-21.51	-25.66
6	8.24609	10.39	24.24	10.47	34.63	20.86	60.00	50.00	-25.37	-29.14

Remarks:

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



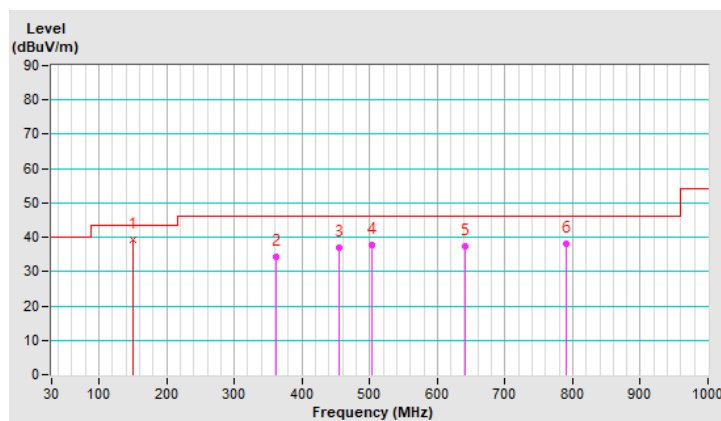
7.8 Unwanted Emissions below 1 GHz

RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	Quasi-Peak (QP), RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 62% RH
Tested By	Nick Tsou		

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	150.01	39.3 QP	43.5	-4.2	2.00 H	33	51.7	-12.4
2	361.60	34.3 QP	46.0	-11.7	2.00 H	250	45.1	-10.8
3	455.31	37.0 QP	46.0	-9.0	1.50 H	297	45.0	-8.0
4	502.83	37.8 QP	46.0	-8.2	2.00 H	111	45.1	-7.3
5	641.49	37.5 QP	46.0	-8.5	1.50 H	10	41.9	-4.4
6	790.63	38.2 QP	46.0	-7.8	2.00 H	116	40.4	-2.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 5 The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

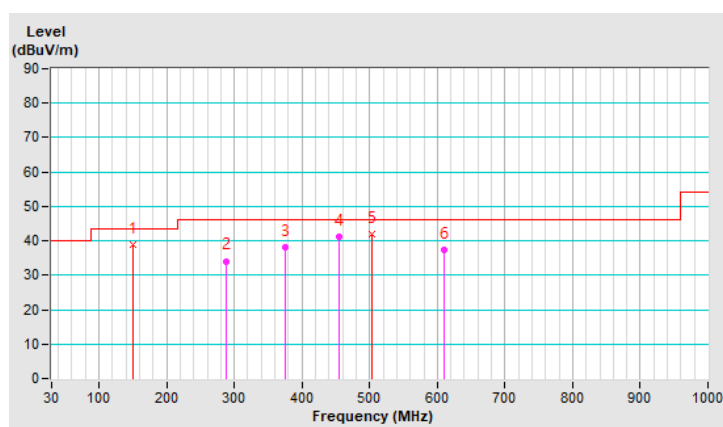


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	Quasi-Peak (QP), RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 62% RH
Tested By	Nick Tsou		

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	150.13	38.9 QP	43.5	-4.6	1.00 V	341	51.3	-12.4
2	287.80	34.1 QP	46.0	-11.9	1.50 V	26	46.5	-12.4
3	375.02	38.1 QP	46.0	-7.9	1.50 V	164	48.4	-10.3
4	455.68	41.3 QP	46.0	-4.7	2.00 V	188	49.3	-8.0
5	503.03	42.0 QP	46.0	-4.0	1.50 V	194	49.3	-7.3
6	611.01	37.5 QP	46.0	-8.5	2.00 V	357	42.2	-4.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
- 5 The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



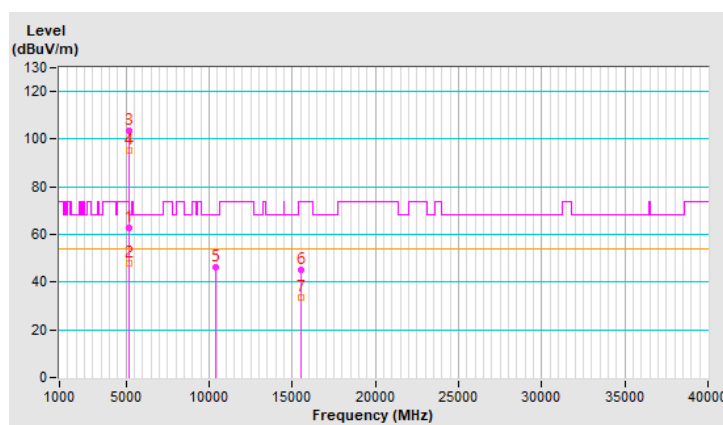
7.9 Unwanted Emissions above 1 GHz

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.9 PK	74.0	-11.1	1.73 H	166	59.3	3.6
2	5150.00	47.9 AV	54.0	-6.1	1.73 H	166	44.3	3.6
3	*5180.00	103.5 PK			1.73 H	166	100.1	3.4
4	*5180.00	95.2 AV			1.73 H	166	91.8	3.4
5	#10360.00	46.1 PK	68.2	-22.1	1.71 H	203	32.3	13.8
6	15540.00	45.3 PK	74.0	-28.7	2.16 H	228	29.8	15.5
7	15540.00	33.5 AV	54.0	-20.5	2.16 H	228	18.0	15.5

Remarks:

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

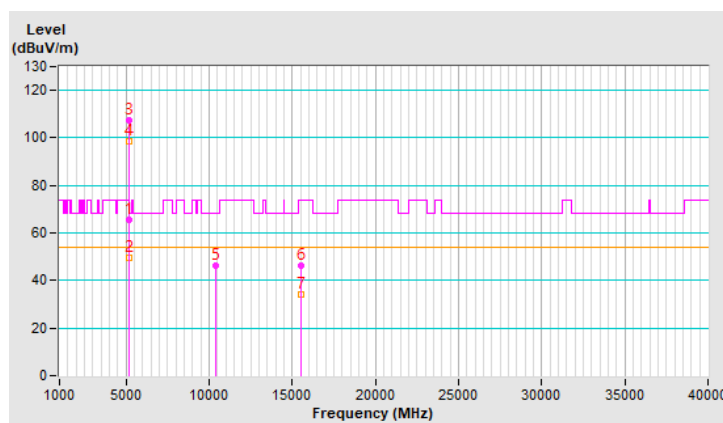


RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.4 PK	74.0	-8.6	2.90 V	208	61.8	3.6
2	5150.00	49.4 AV	54.0	-4.6	2.90 V	208	45.8	3.6
3	*5180.00	107.2 PK			2.90 V	208	103.8	3.4
4	*5180.00	98.8 AV			2.90 V	208	95.4	3.4
5	#10360.00	46.3 PK	68.2	-21.9	1.39 V	99	32.5	13.8
6	15540.00	46.1 PK	74.0	-27.9	2.41 V	116	30.6	15.5
7	15540.00	34.3 AV	54.0	-19.7	2.41 V	116	18.8	15.5

Remarks:

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

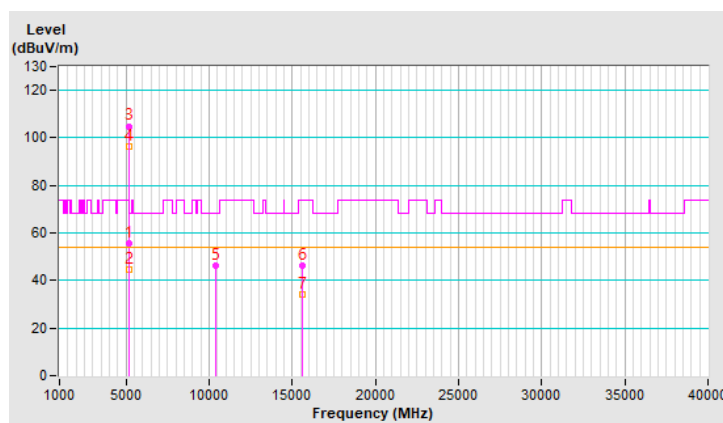


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	55.6 PK	74.0	-18.4	1.74 H	244	52.0	3.6
2	5150.00	44.6 AV	54.0	-9.4	1.74 H	244	41.0	3.6
3	*5200.00	104.9 PK			1.74 H	244	101.5	3.4
4	*5200.00	96.6 AV			1.74 H	244	93.2	3.4
5	#10400.00	46.2 PK	68.2	-22.0	1.81 H	181	32.2	14.0
6	15600.00	46.0 PK	74.0	-28.0	2.13 H	211	30.4	15.6
7	15600.00	34.1 AV	54.0	-19.9	2.13 H	211	18.5	15.6

Remarks:

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

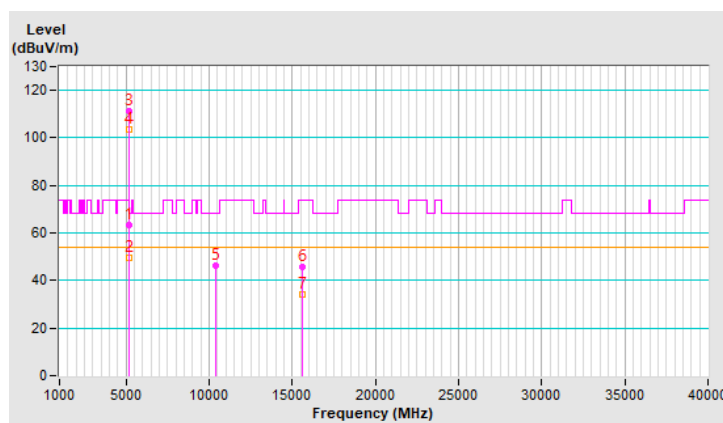


RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	2.92 V	186	59.9	3.6
2	5150.00	49.7 AV	54.0	-4.3	2.92 V	186	46.1	3.6
3	*5200.00	111.1 PK			2.92 V	186	107.7	3.4
4	*5200.00	103.3 AV			2.92 V	186	99.9	3.4
5	#10400.00	46.4 PK	68.2	-21.8	1.42 V	105	32.4	14.0
6	15600.00	45.9 PK	74.0	-28.1	2.33 V	134	30.3	15.6
7	15600.00	34.1 AV	54.0	-19.9	2.33 V	134	18.5	15.6

Remarks:

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

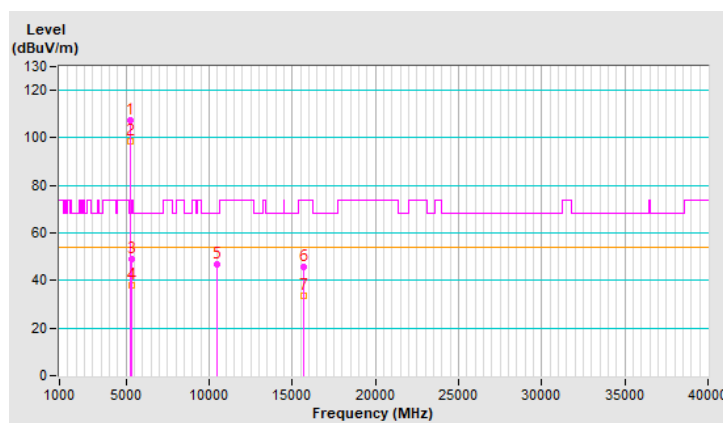


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	107.2 PK			1.91 H	296	103.9	3.3
2	*5240.00	98.6 AV			1.91 H	296	95.3	3.3
3	5350.00	49.0 PK	74.0	-25.0	1.91 H	296	45.7	3.3
4	5350.00	38.1 AV	54.0	-15.9	1.91 H	296	34.8	3.3
5	#10480.00	46.7 PK	68.2	-21.5	1.74 H	204	32.6	14.1
6	15720.00	45.5 PK	74.0	-28.5	2.16 H	220	31.6	13.9
7	15720.00	33.7 AV	54.0	-20.3	2.16 H	220	19.8	13.9

Remarks:

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

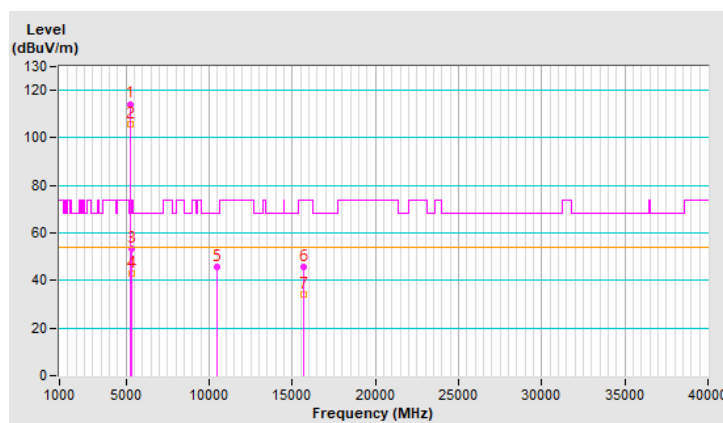


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	114.3 PK			2.75 V	172	111.0	3.3
2	*5240.00	105.5 AV			2.75 V	172	102.2	3.3
3	5350.00	53.3 PK	74.0	-20.7	2.92 V	172	50.0	3.3
4	5350.00	43.1 AV	54.0	-10.9	2.92 V	172	39.8	3.3
5	#10480.00	45.9 PK	68.2	-22.3	1.35 V	107	31.8	14.1
6	15720.00	45.9 PK	74.0	-28.1	2.42 V	130	32.0	13.9
7	15720.00	34.0 AV	54.0	-20.0	2.42 V	130	20.1	13.9

Remarks:

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

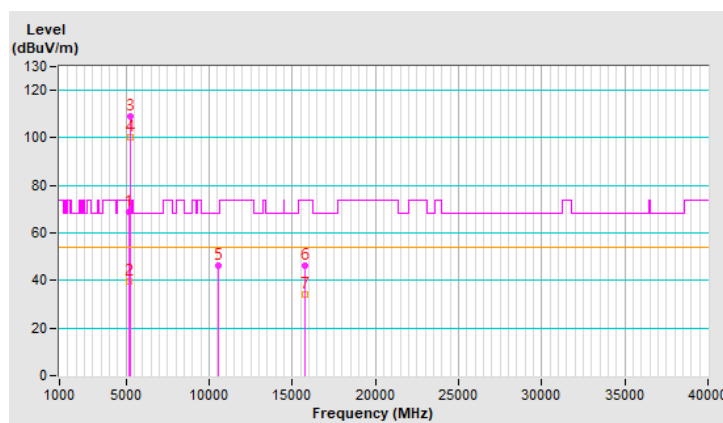


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	69.0 PK	74.0	-5.0	2.15 H	203	65.4	3.6
2	5150.00	39.6 AV	54.0	-14.4	2.15 H	203	36.0	3.6
3	*5260.00	109.0 PK			2.15 H	203	105.9	3.1
4	*5260.00	100.3 AV			2.15 H	203	97.2	3.1
5	#10520.00	46.0 PK	68.2	-22.2	1.75 H	203	31.9	14.1
6	15780.00	46.4 PK	74.0	-27.6	2.10 H	228	32.3	14.1
7	15780.00	34.2 AV	54.0	-19.8	2.10 H	228	20.1	14.1

Remarks:

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

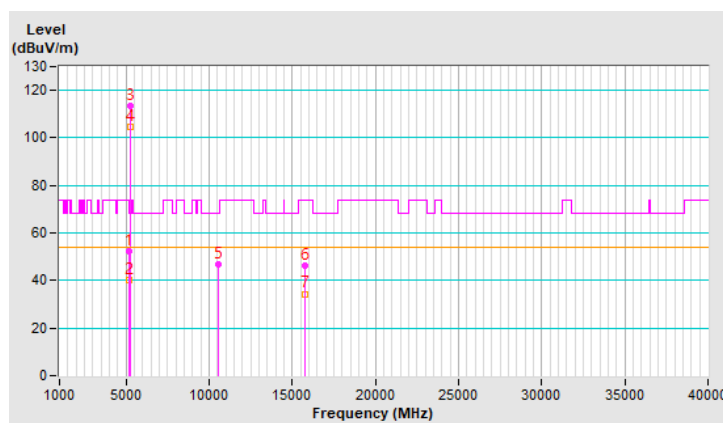


RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.1 PK	74.0	-21.9	2.75 V	181	48.5	3.6
2	5150.00	40.3 AV	54.0	-13.7	2.75 V	181	36.7	3.6
3	*5260.00	113.2 PK			2.75 V	181	110.1	3.1
4	*5260.00	104.6 AV			2.75 V	181	101.5	3.1
5	#10520.00	46.9 PK	68.2	-21.3	1.42 V	85	32.8	14.1
6	15780.00	46.4 PK	74.0	-27.6	2.42 V	122	32.3	14.1
7	15780.00	34.4 AV	54.0	-19.6	2.42 V	122	20.3	14.1

Remarks:

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

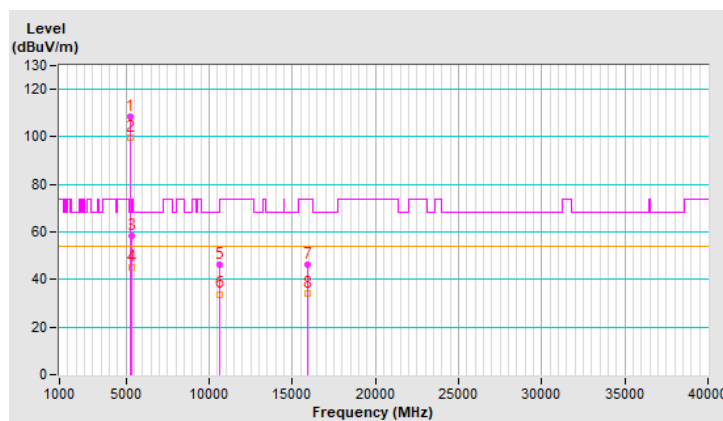


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	108.3 PK			2.43 H	206	105.2	3.1
2	*5300.00	99.6 AV			2.43 H	206	96.5	3.1
3	5350.00	58.3 PK	74.0	-15.7	2.43 H	206	55.0	3.3
4	5350.00	45.4 AV	54.0	-8.6	2.43 H	206	42.1	3.3
5	10600.00	46.4 PK	74.0	-27.6	1.77 H	189	32.7	13.7
6	10600.00	33.9 AV	54.0	-20.1	1.77 H	189	20.2	13.7
7	15900.00	46.0 PK	74.0	-28.0	2.15 H	213	31.9	14.1
8	15900.00	34.0 AV	54.0	-20.0	2.15 H	213	19.9	14.1

Remarks:

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

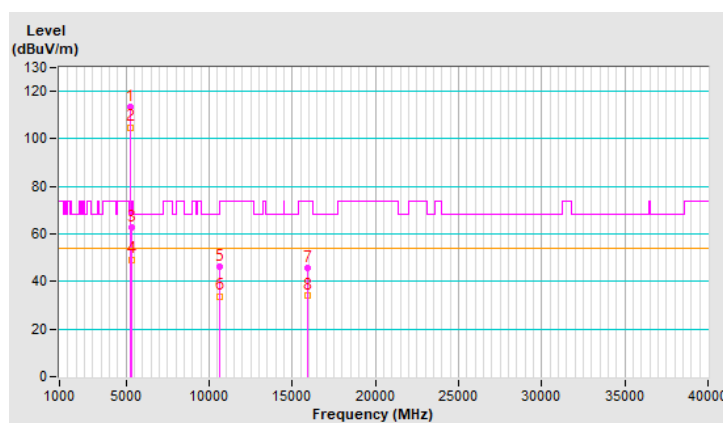


RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	113.4 PK			2.95 V	175	110.3	3.1
2	*5300.00	104.9 AV			2.95 V	175	101.8	3.1
3	5350.00	62.6 PK	74.0	-11.4	2.95 V	175	59.3	3.3
4	5350.00	49.3 AV	54.0	-4.7	2.95 V	175	46.0	3.3
5	10600.00	46.2 PK	74.0	-27.8	1.38 V	97	32.5	13.7
6	10600.00	33.9 AV	54.0	-20.1	1.38 V	97	20.2	13.7
7	15900.00	45.8 PK	74.0	-28.2	2.38 V	123	31.7	14.1
8	15900.00	34.0 AV	54.0	-20.0	2.38 V	123	19.9	14.1

Remarks:

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

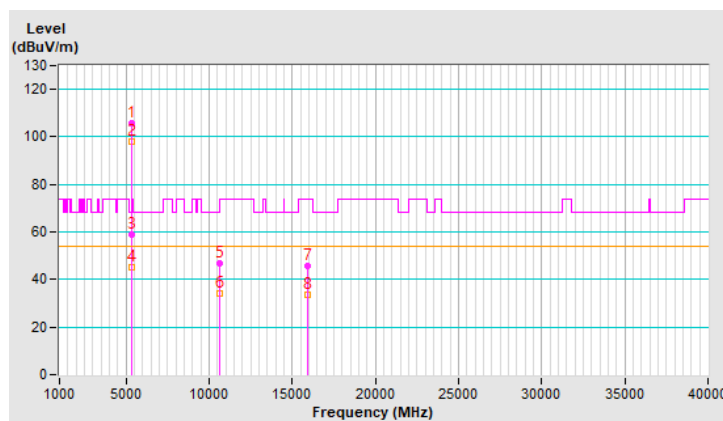


RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	105.7 PK			2.31 H	208	102.5	3.2
2	*5320.00	97.8 AV			2.31 H	208	94.6	3.2
3	5350.00	59.0 PK	74.0	-15.0	2.31 H	208	55.7	3.3
4	5350.00	45.1 AV	54.0	-8.9	2.31 H	208	41.8	3.3
5	10640.00	46.8 PK	74.0	-27.2	1.76 H	195	33.1	13.7
6	10640.00	33.9 AV	54.0	-20.1	1.76 H	195	20.2	13.7
7	15960.00	45.7 PK	74.0	-28.3	2.17 H	197	31.2	14.5
8	15960.00	33.6 AV	54.0	-20.4	2.17 H	197	19.1	14.5

Remarks:

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

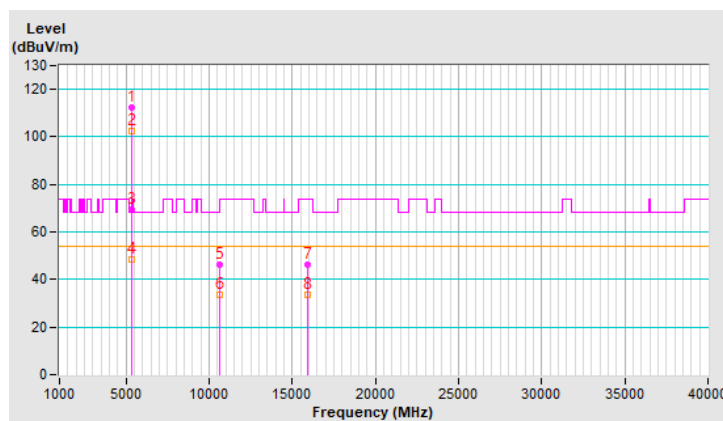


RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	112.2 PK			2.90 V	176	109.0	3.2
2	*5320.00	102.5 AV			2.90 V	176	99.3	3.2
3	5350.00	69.3 PK	74.0	-4.7	2.90 V	176	66.0	3.3
4	5350.00	48.7 AV	54.0	-5.3	2.90 V	176	45.4	3.3
5	10640.00	46.3 PK	74.0	-27.7	1.33 V	93	32.6	13.7
6	10640.00	33.7 AV	54.0	-20.3	1.33 V	93	20.0	13.7
7	15960.00	46.0 PK	74.0	-28.0	2.41 V	114	31.5	14.5
8	15960.00	33.8 AV	54.0	-20.2	2.41 V	114	19.3	14.5

Remarks:

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

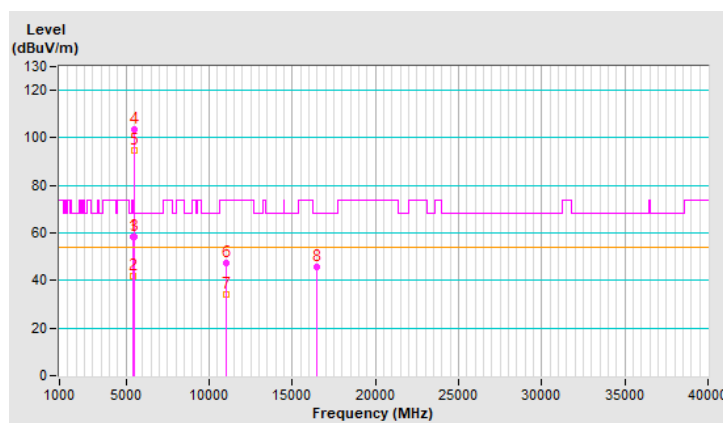


RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	58.6 PK	74.0	-15.4	1.94 H	212	55.1	3.5
2	5460.00	41.9 AV	54.0	-12.1	1.94 H	212	38.4	3.5
3	#5470.00	58.6 PK	68.2	-9.6	1.94 H	212	55.1	3.5
4	*5500.00	103.3 PK			1.94 H	212	99.8	3.5
5	*5500.00	94.5 AV			1.94 H	212	91.0	3.5
6	11000.00	47.1 PK	74.0	-26.9	1.80 H	204	32.9	14.2
7	11000.00	34.3 AV	54.0	-19.7	1.80 H	204	20.1	14.2
8	#16500.00	45.9 PK	68.2	-22.3	2.13 H	203	29.9	16.0

Remarks:

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

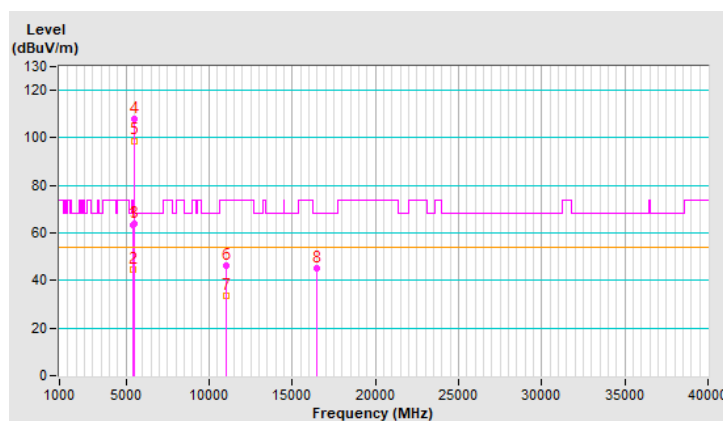


RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	63.6 PK	74.0	-10.4	2.38 V	175	60.1	3.5
2	5460.00	44.5 AV	54.0	-9.5	2.38 V	175	41.0	3.5
3	#5470.00	64.0 PK	68.2	-4.2	2.38 V	175	60.5	3.5
4	*5500.00	107.8 PK			2.38 V	175	104.3	3.5
5	*5500.00	98.9 AV			2.38 V	175	95.4	3.5
6	11000.00	46.3 PK	74.0	-27.7	1.43 V	110	32.1	14.2
7	11000.00	33.8 AV	54.0	-20.2	1.43 V	110	19.6	14.2
8	#16500.00	45.4 PK	68.2	-22.8	2.37 V	110	29.4	16.0

Remarks:

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

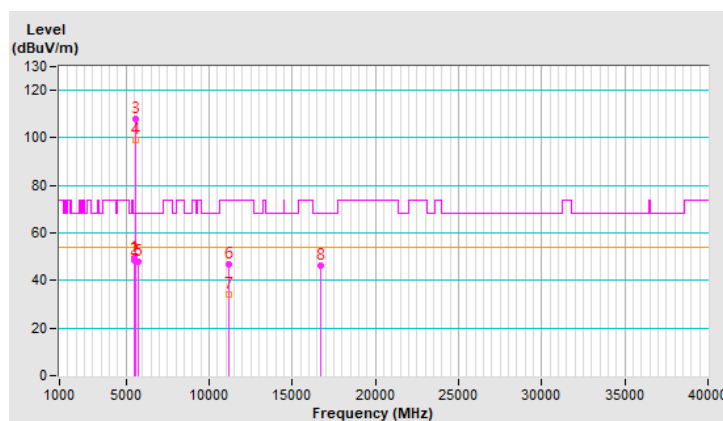


RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	#5465.00	49.6 PK	68.2	-18.6	1.84 H	214	46.1	3.5
2	#5500.00	48.4 PK	68.2	-19.8	1.84 H	214	44.9	3.5
3	*5580.00	107.8 PK			1.84 H	214	104.0	3.8
4	*5580.00	99.0 AV			1.84 H	214	95.2	3.8
5	#5730.00	47.7 PK	68.2	-20.5	1.84 H	214	43.7	4.0
6	11160.00	46.6 PK	74.0	-27.4	1.82 H	187	32.2	14.4
7	11160.00	34.0 AV	54.0	-20.0	1.82 H	187	19.6	14.4
8	#16740.00	46.1 PK	68.2	-22.1	2.12 H	220	28.5	17.6

Remarks:

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

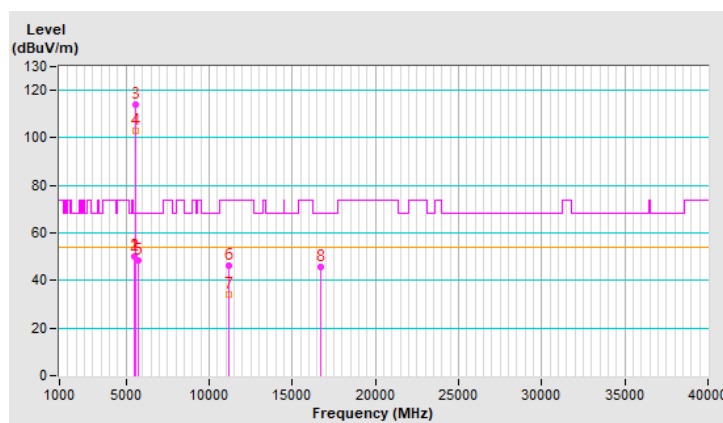


RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	#5465.00	50.1 PK	68.2	-18.1	2.70 V	184	46.6	3.5
2	#5500.00	50.1 PK	68.2	-18.1	2.70 V	184	46.6	3.5
3	*5580.00	113.8 PK			2.70 V	184	110.0	3.8
4	*5580.00	103.2 AV			2.70 V	184	99.4	3.8
5	#5730.00	48.5 PK	68.2	-19.7	2.70 V	184	44.5	4.0
6	11160.00	46.2 PK	74.0	-27.8	1.33 V	92	31.8	14.4
7	11160.00	34.0 AV	54.0	-20.0	1.33 V	92	19.6	14.4
8	#16740.00	45.6 PK	68.2	-22.6	2.41 V	112	28.0	17.6

Remarks:

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

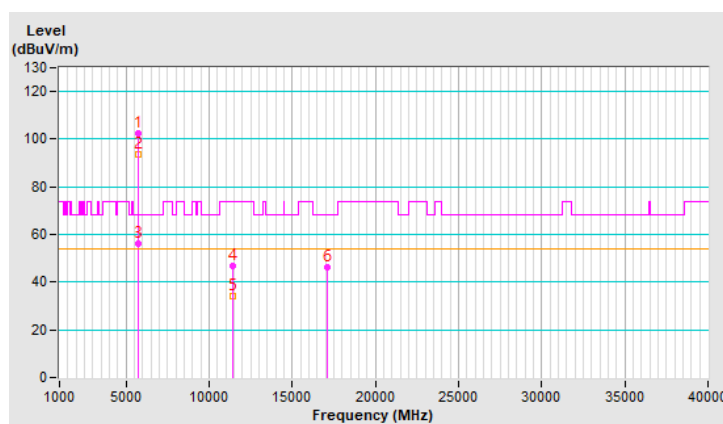


RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	102.3 PK			1.91 H	218	98.4	3.9
2	*5700.00	93.8 AV			1.91 H	218	89.9	3.9
3	#5725.00	56.4 PK	68.2	-11.8	1.91 H	218	52.4	4.0
4	11400.00	46.6 PK	74.0	-27.4	1.78 H	195	31.6	15.0
5	11400.00	34.3 AV	54.0	-19.7	1.78 H	195	19.3	15.0
6	#17100.00	46.4 PK	68.2	-21.8	2.20 H	225	28.6	17.8

Remarks:

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

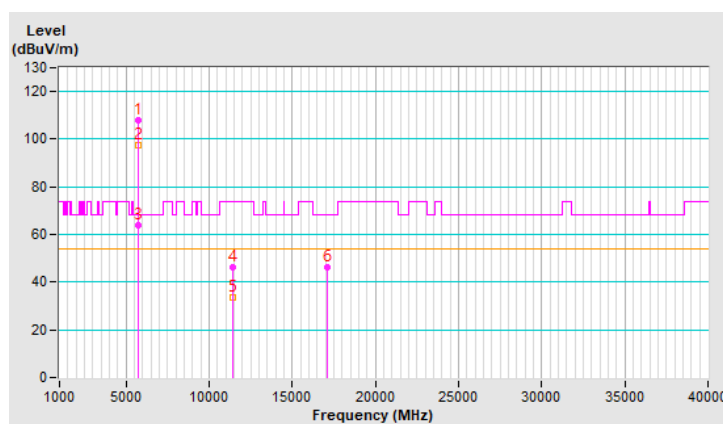


RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	107.9 PK			2.47 V	184	104.0	3.9
2	*5700.00	97.7 AV			2.47 V	184	93.8	3.9
3	#5725.00	64.1 PK	68.2	-4.1	2.47 V	184	60.1	4.0
4	11400.00	46.0 PK	74.0	-28.0	1.38 V	96	31.0	15.0
5	11400.00	33.8 AV	54.0	-20.2	1.38 V	96	18.8	15.0
6	#17100.00	46.1 PK	68.2	-22.1	2.33 V	125	28.3	17.8

Remarks:

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

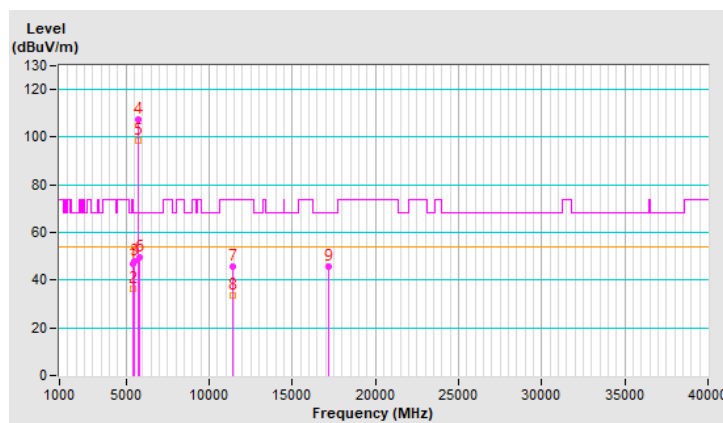


RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	46.7 PK	74.0	-27.3	2.06 H	217	43.2	3.5
2	5460.00	36.2 AV	54.0	-17.8	2.06 H	217	32.7	3.5
3	#5470.00	47.7 PK	68.2	-20.5	2.06 H	217	44.2	3.5
4	*5720.00	107.4 PK			2.06 H	217	103.4	4.0
5	*5720.00	98.6 AV			2.06 H	217	94.6	4.0
6	#5850.00	49.5 PK	68.2	-18.7	2.06 H	217	45.2	4.3
7	11440.00	45.8 PK	74.0	-28.2	1.79 H	187	30.8	15.0
8	11440.00	33.4 AV	54.0	-20.6	1.79 H	187	18.4	15.0
9	#17160.00	45.9 PK	68.2	-22.3	2.18 H	213	28.4	17.5

Remarks:

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

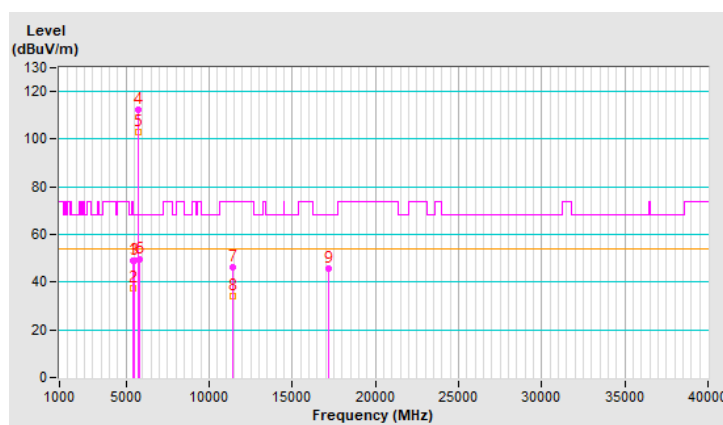


RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	48.9 PK	74.0	-25.1	2.58 V	188	45.4	3.5
2	5460.00	37.3 AV	54.0	-16.7	2.58 V	188	33.8	3.5
3	#5470.00	49.0 PK	68.2	-19.2	2.58 V	188	45.5	3.5
4	*5720.00	112.1 PK			2.58 V	188	108.1	4.0
5	*5720.00	103.1 AV			2.58 V	188	99.1	4.0
6	#5850.00	49.5 PK	68.2	-18.7	2.58 V	188	45.2	4.3
7	11440.00	46.1 PK	74.0	-27.9	1.38 V	112	31.1	15.0
8	11440.00	33.9 AV	54.0	-20.1	1.38 V	112	18.9	15.0
9	#17160.00	45.6 PK	68.2	-22.6	2.35 V	120	28.1	17.5

Remarks:

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

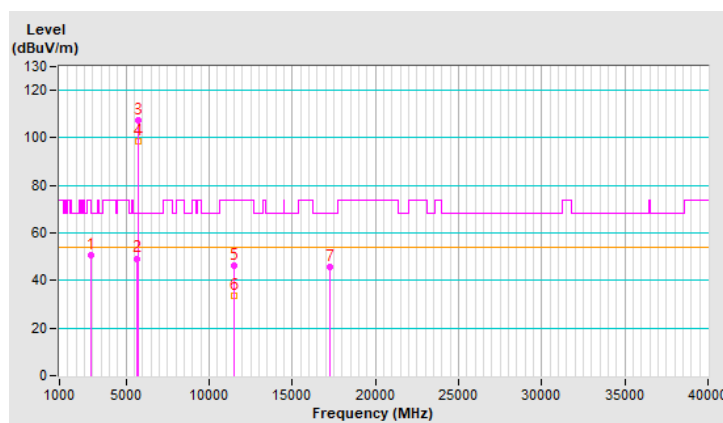


RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	#2926.52	50.6 PK	68.2	-17.6	2.23 H	119	51.8	-1.2
2	#5642.48	49.3 PK	68.2	-18.9	2.23 H	119	45.4	3.9
3	*5745.00	107.3 PK			2.23 H	119	103.3	4.0
4	*5745.00	98.6 AV			2.23 H	119	94.6	4.0
5	11490.00	46.5 PK	74.0	-27.5	1.77 H	179	31.3	15.2
6	11490.00	33.8 AV	54.0	-20.2	1.77 H	179	18.6	15.2
7	#17235.00	45.7 PK	68.2	-22.5	2.18 H	209	27.8	17.9

Remarks:

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

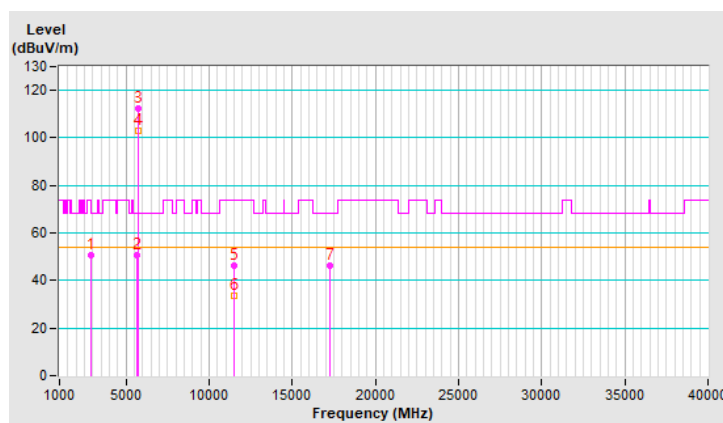


RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	#2926.52	50.9 PK	68.2	-17.3	2.45 V	188	52.1	-1.2
2	#5642.48	50.8 PK	68.2	-17.4	2.45 V	188	46.9	3.9
3	*5745.00	112.3 PK			2.45 V	188	108.3	4.0
4	*5745.00	103.2 AV			2.45 V	188	99.2	4.0
5	11490.00	46.1 PK	74.0	-27.9	1.35 V	98	30.9	15.2
6	11490.00	33.8 AV	54.0	-20.2	1.35 V	98	18.6	15.2
7	#17235.00	46.4 PK	68.2	-21.8	2.39 V	135	28.5	17.9

Remarks:

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

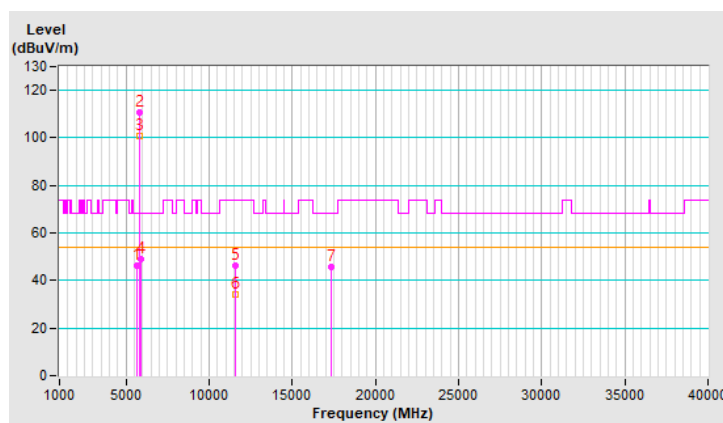


RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	46.5 PK	68.2	-21.7	2.16 H	118	42.6	3.9
2	*5785.00	110.5 PK			2.16 H	118	106.3	4.2
3	*5785.00	100.8 AV			2.16 H	118	96.6	4.2
4	#5925.00	49.0 PK	68.2	-19.2	2.16 H	118	44.4	4.6
5	11570.00	46.5 PK	74.0	-27.5	1.83 H	202	31.6	14.9
6	11570.00	34.0 AV	54.0	-20.0	1.83 H	202	19.1	14.9
7	#17355.00	45.6 PK	68.2	-22.6	2.17 H	228	26.5	19.1

Remarks:

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

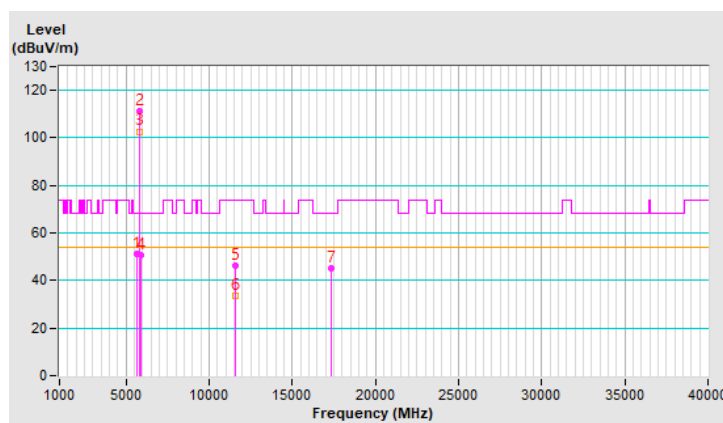


RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	51.2 PK	68.2	-17.0	2.54 V	182	47.3	3.9
2	*5785.00	111.5 PK			2.54 V	182	107.3	4.2
3	*5785.00	102.7 AV			2.54 V	182	98.5	4.2
4	#5925.00	50.9 PK	68.2	-17.3	2.54 V	182	46.3	4.6
5	11570.00	46.0 PK	74.0	-28.0	1.34 V	108	31.1	14.9
6	11570.00	33.4 AV	54.0	-20.6	1.34 V	108	18.5	14.9
7	#17355.00	45.3 PK	68.2	-22.9	2.36 V	109	26.2	19.1

Remarks:

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

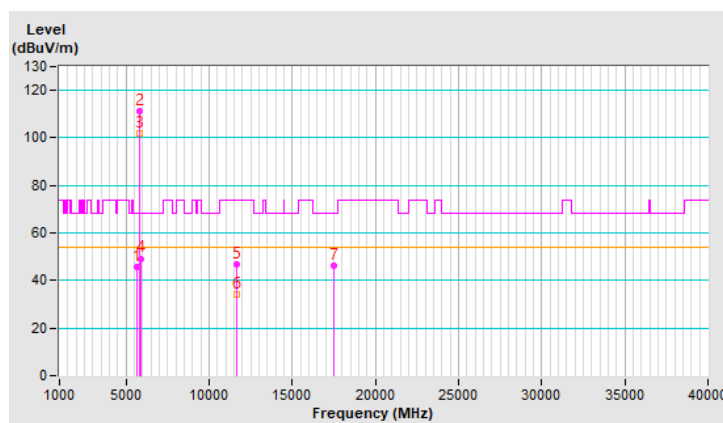


RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	#5627.00	45.5 PK	68.2	-22.7	2.12 H	120	41.6	3.9
2	*5825.00	111.2 PK			2.12 H	120	106.9	4.3
3	*5825.00	101.8 AV			2.12 H	120	97.5	4.3
4	#5934.00	49.3 PK	68.2	-18.9	2.12 H	120	44.7	4.6
5	11650.00	46.6 PK	74.0	-27.4	1.79 H	190	32.0	14.6
6	11650.00	34.3 AV	54.0	-19.7	1.79 H	190	19.7	14.6
7	#17475.00	46.0 PK	68.2	-22.2	2.12 H	227	25.5	20.5

Remarks:

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

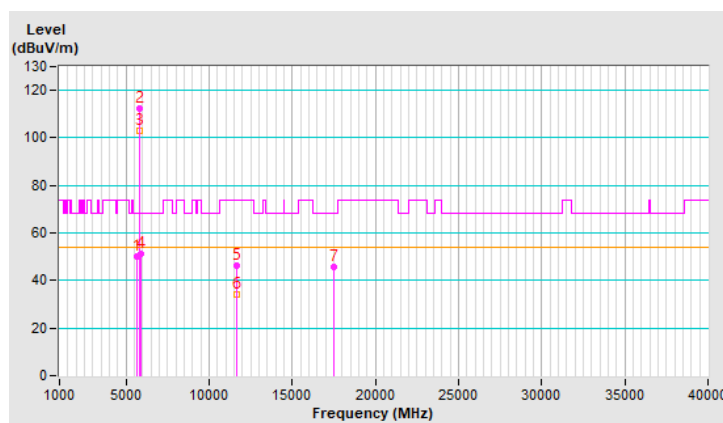


RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	#5627.00	50.2 PK	68.2	-18.0	2.49 V	192	46.3	3.9
2	*5825.00	112.4 PK			2.49 V	192	108.1	4.3
3	*5825.00	102.9 AV			2.49 V	192	98.6	4.3
4	#5934.00	51.2 PK	68.2	-17.0	2.49 V	192	46.6	4.6
5	11650.00	46.5 PK	74.0	-27.5	1.39 V	96	31.9	14.6
6	11650.00	33.9 AV	54.0	-20.1	1.39 V	96	19.3	14.6
7	#17475.00	45.7 PK	68.2	-22.5	2.44 V	133	25.2	20.5

Remarks:

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

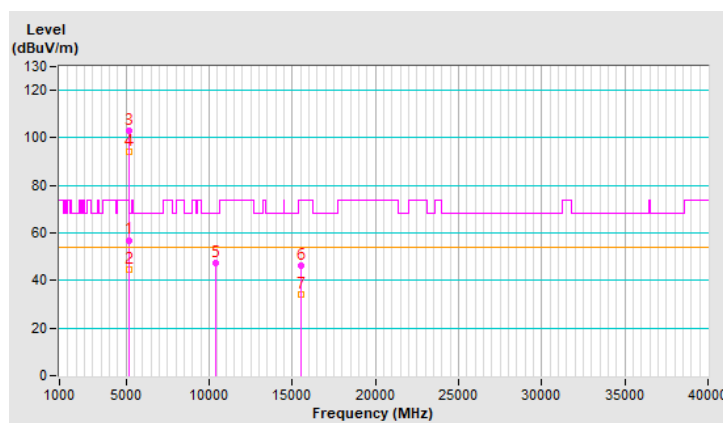


RF Mode	802.11ac (VHT20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	2.10 H	200	53.4	3.6
2	5150.00	44.8 AV	54.0	-9.2	2.10 H	200	41.2	3.6
3	*5180.00	103.0 PK			2.10 H	200	99.6	3.4
4	*5180.00	94.0 AV			2.10 H	200	90.6	3.4
5	#10360.00	47.1 PK	68.2	-21.1	1.80 H	202	33.3	13.8
6	15540.00	46.1 PK	74.0	-27.9	2.16 H	207	30.6	15.5
7	15540.00	34.0 AV	54.0	-20.0	2.16 H	207	18.5	15.5

Remarks:

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

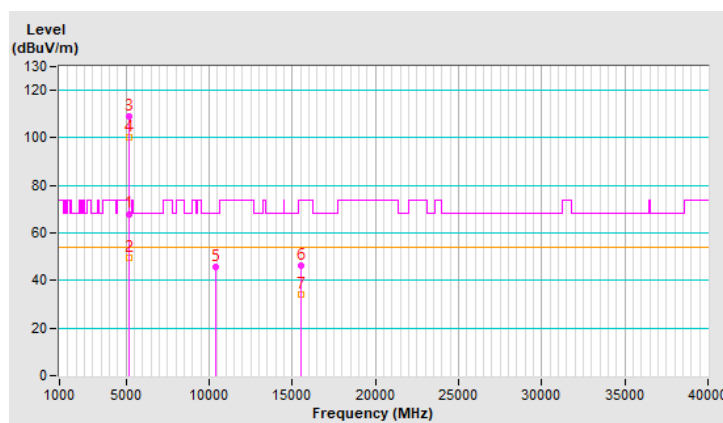


RF Mode	802.11ac (VHT20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.0 PK	74.0	-6.0	2.42 V	179	64.4	3.6
2	5150.00	49.5 AV	54.0	-4.5	2.42 V	179	45.9	3.6
3	*5180.00	109.2 PK			2.42 V	179	105.8	3.4
4	*5180.00	100.4 AV			2.42 V	179	97.0	3.4
5	#10360.00	45.7 PK	68.2	-22.5	1.44 V	82	31.9	13.8
6	15540.00	46.2 PK	74.0	-27.8	2.35 V	123	30.7	15.5
7	15540.00	34.1 AV	54.0	-19.9	2.35 V	123	18.6	15.5

Remarks:

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

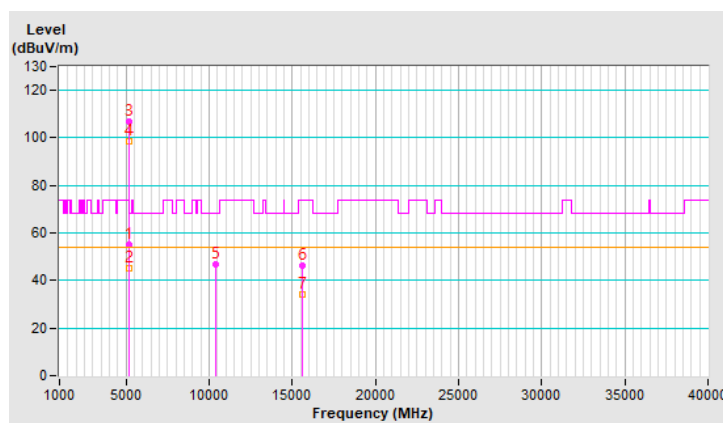


RF Mode	802.11ac (VHT20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	54.9 PK	74.0	-19.1	2.30 H	205	51.3	3.6
2	5150.00	45.4 AV	54.0	-8.6	2.30 H	205	41.8	3.6
3	*5200.00	106.8 PK			2.30 H	205	103.4	3.4
4	*5200.00	98.3 AV			2.30 H	205	94.9	3.4
5	#10400.00	46.9 PK	68.2	-21.3	1.78 H	180	32.9	14.0
6	15600.00	46.2 PK	74.0	-27.8	2.10 H	222	30.6	15.6
7	15600.00	34.1 AV	54.0	-19.9	2.10 H	222	18.5	15.6

Remarks:

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

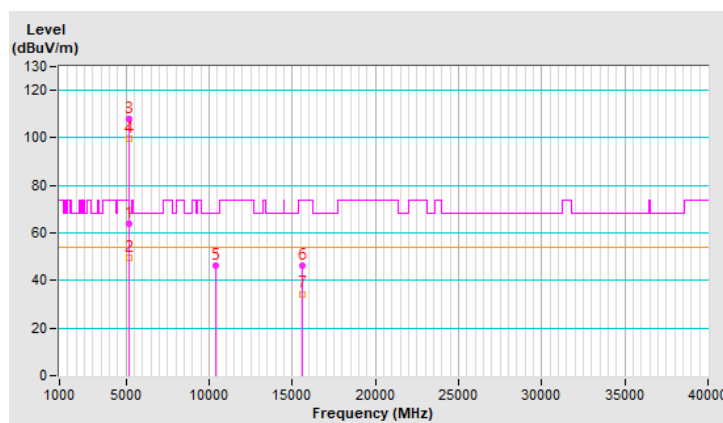


RF Mode	802.11ac (VHT20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	63.7 PK	74.0	-10.3	1.46 V	203	60.1	3.6
2	5150.00	49.8 AV	54.0	-4.2	1.46 V	203	46.2	3.6
3	*5200.00	108.1 PK			1.46 V	203	104.7	3.4
4	*5200.00	99.9 AV			1.46 V	203	96.5	3.4
5	#10400.00	46.3 PK	68.2	-21.9	1.42 V	88	32.3	14.0
6	15600.00	46.3 PK	74.0	-27.7	2.36 V	121	30.7	15.6
7	15600.00	34.4 AV	54.0	-19.6	2.36 V	121	18.8	15.6

Remarks:

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

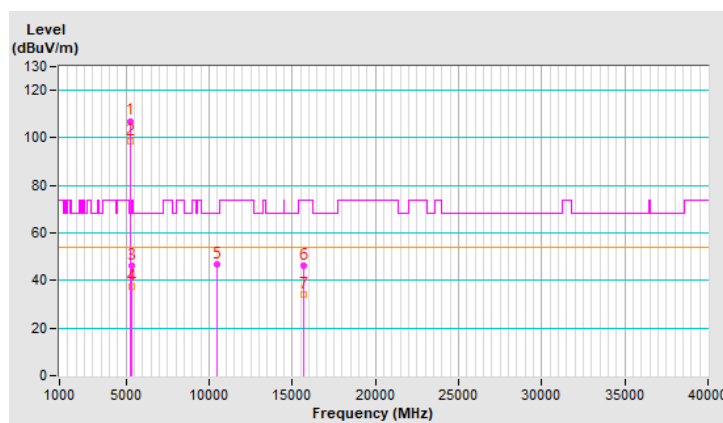


RF Mode	802.11ac (VHT20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	107.1 PK			2.39 H	208	103.8	3.3
2	*5240.00	98.5 AV			2.39 H	208	95.2	3.3
3	5350.00	46.4 PK	74.0	-27.6	2.39 H	208	43.1	3.3
4	5350.00	37.4 AV	54.0	-16.6	2.39 H	208	34.1	3.3
5	#10480.00	46.8 PK	68.2	-21.4	1.75 H	188	32.7	14.1
6	15720.00	46.2 PK	74.0	-27.8	2.17 H	224	32.3	13.9
7	15720.00	34.3 AV	54.0	-19.7	2.17 H	224	20.4	13.9

Remarks:

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

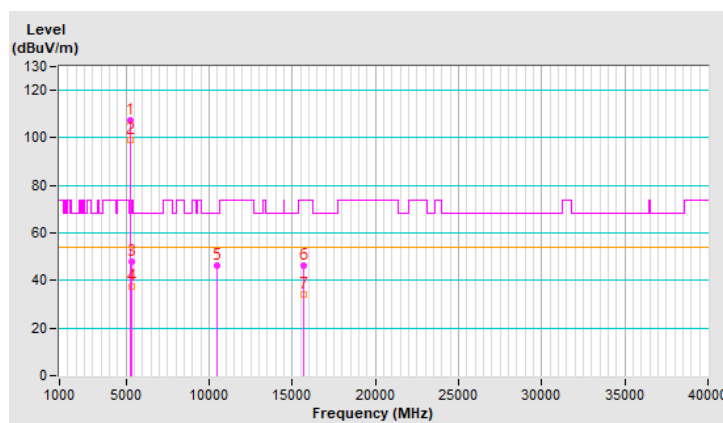


RF Mode	802.11ac (VHT20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	107.6 PK			1.59 V	203	104.3	3.3
2	*5240.00	99.3 AV			1.59 V	203	96.0	3.3
3	5350.00	47.9 PK	74.0	-26.1	1.59 V	203	44.6	3.3
4	5350.00	37.5 AV	54.0	-16.5	1.59 V	203	34.2	3.3
5	#10480.00	46.3 PK	68.2	-21.9	1.44 V	91	32.2	14.1
6	15720.00	46.0 PK	74.0	-28.0	2.39 V	117	32.1	13.9
7	15720.00	34.1 AV	54.0	-19.9	2.39 V	117	20.2	13.9

Remarks:

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

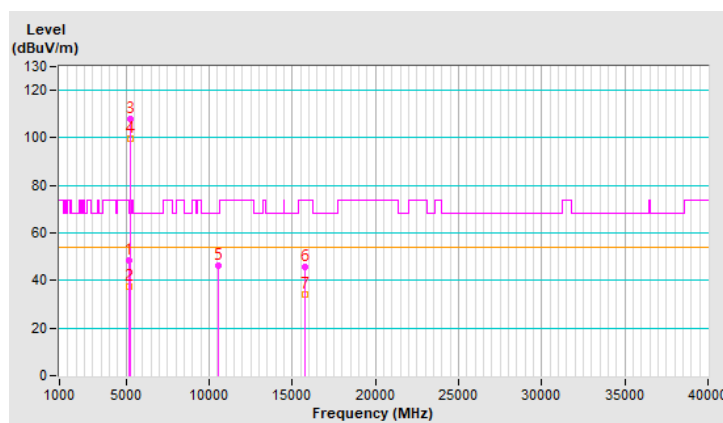


RF Mode	802.11ac (VHT20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	48.7 PK	74.0	-25.3	2.29 H	208	45.1	3.6
2	5150.00	37.3 AV	54.0	-16.7	2.29 H	208	33.7	3.6
3	*5260.00	107.9 PK			2.29 H	208	104.8	3.1
4	*5260.00	99.8 AV			2.29 H	208	96.7	3.1
5	#10520.00	46.3 PK	68.2	-21.9	1.77 H	175	32.2	14.1
6	15780.00	45.9 PK	74.0	-28.1	2.11 H	224	31.8	14.1
7	15780.00	33.9 AV	54.0	-20.1	2.11 H	224	19.8	14.1

Remarks:

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

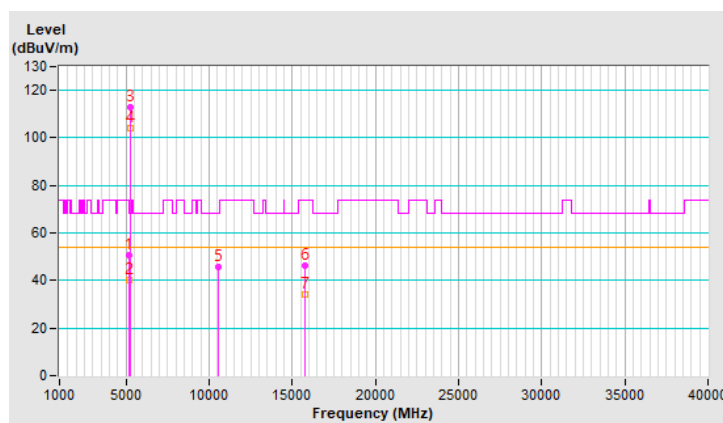


RF Mode	802.11ac (VHT20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	50.8 PK	74.0	-23.2	2.36 V	165	47.2	3.6
2	5150.00	40.0 AV	54.0	-14.0	2.36 V	165	36.4	3.6
3	*5260.00	112.8 PK			2.36 V	165	109.7	3.1
4	*5260.00	104.3 AV			2.36 V	165	101.2	3.1
5	#10520.00	45.8 PK	68.2	-22.4	1.36 V	111	31.7	14.1
6	15780.00	46.0 PK	74.0	-28.0	2.38 V	129	31.9	14.1
7	15780.00	34.2 AV	54.0	-19.8	2.38 V	129	20.1	14.1

Remarks:

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

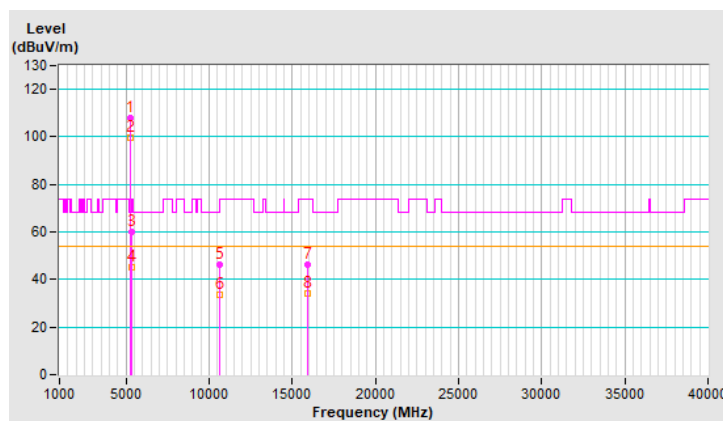


RF Mode	802.11ac (VHT20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	107.9 PK			2.29 H	210	104.8	3.1
2	*5300.00	99.8 AV			2.29 H	210	96.7	3.1
3	5350.00	59.8 PK	74.0	-14.2	2.29 H	210	56.5	3.3
4	5350.00	45.2 AV	54.0	-8.8	2.29 H	210	41.9	3.3
5	10600.00	46.0 PK	74.0	-28.0	1.77 H	201	32.3	13.7
6	10600.00	33.6 AV	54.0	-20.4	1.77 H	201	19.9	13.7
7	15900.00	46.2 PK	74.0	-27.8	2.18 H	223	32.1	14.1
8	15900.00	34.2 AV	54.0	-19.8	2.18 H	223	20.1	14.1

Remarks:

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

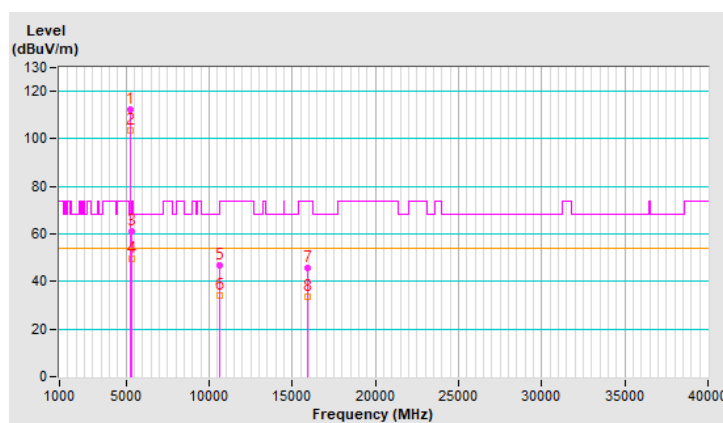


RF Mode	802.11ac (VHT20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	112.5 PK			2.31 V	164	109.4	3.1
2	*5300.00	103.3 AV			2.31 V	164	100.2	3.1
3	5350.00	61.0 PK	74.0	-13.0	2.31 V	164	57.7	3.3
4	5350.00	49.8 AV	54.0	-4.2	2.31 V	164	46.5	3.3
5	10600.00	46.7 PK	74.0	-27.3	1.37 V	110	33.0	13.7
6	10600.00	34.2 AV	54.0	-19.8	1.37 V	110	20.5	13.7
7	15900.00	45.5 PK	74.0	-28.5	2.40 V	122	31.4	14.1
8	15900.00	33.6 AV	54.0	-20.4	2.40 V	122	19.5	14.1

Remarks:

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

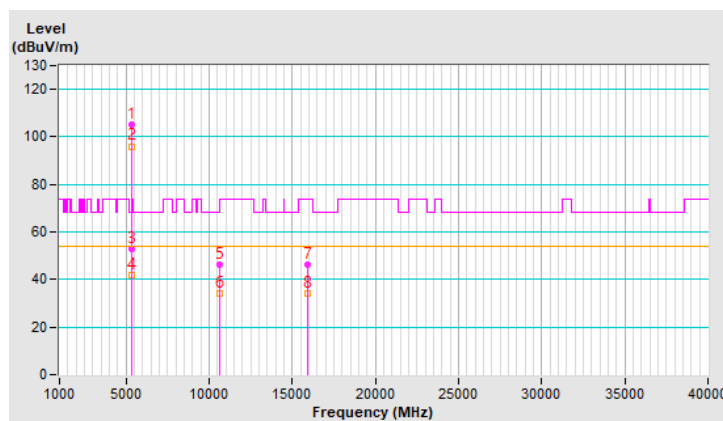


RF Mode	802.11ac (VHT20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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			2.35 H	208	102.2	3.2
2	*5320.00	96.1 AV			2.35 H	208	92.9	3.2
3	5350.00	52.8 PK	74.0	-21.2	2.35 H	208	49.5	3.3
4	5350.00	41.7 AV	54.0	-12.3	2.35 H	208	38.4	3.3
5	10640.00	46.4 PK	74.0	-27.6	1.76 H	193	32.7	13.7
6	10640.00	33.9 AV	54.0	-20.1	1.76 H	193	20.2	13.7
7	15960.00	46.5 PK	74.0	-27.5	2.12 H	210	32.0	14.5
8	15960.00	34.2 AV	54.0	-19.8	2.12 H	210	19.7	14.5

Remarks:

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

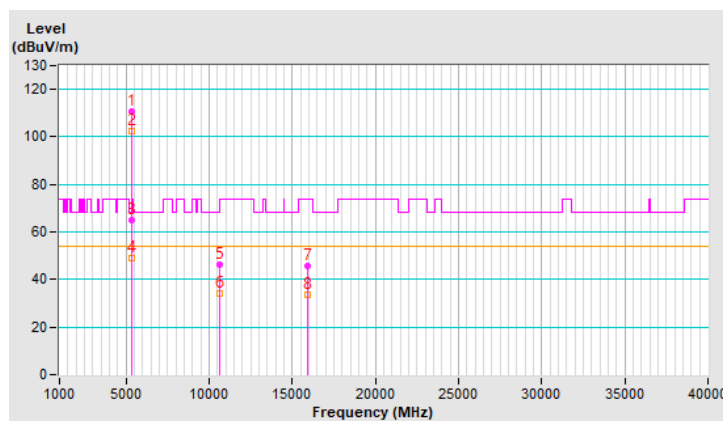


RF Mode	802.11ac (VHT20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	110.7 PK			2.94 V	173	107.5	3.2
2	*5320.00	102.4 AV			2.94 V	173	99.2	3.2
3	5350.00	65.0 PK	74.0	-9.0	2.94 V	173	61.7	3.3
4	5350.00	49.2 AV	54.0	-4.8	2.94 V	173	45.9	3.3
5	10640.00	46.5 PK	74.0	-27.5	1.40 V	106	32.8	13.7
6	10640.00	34.3 AV	54.0	-19.7	1.40 V	106	20.6	13.7
7	15960.00	45.6 PK	74.0	-28.4	2.38 V	107	31.1	14.5
8	15960.00	33.5 AV	54.0	-20.5	2.38 V	107	19.0	14.5

Remarks:

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

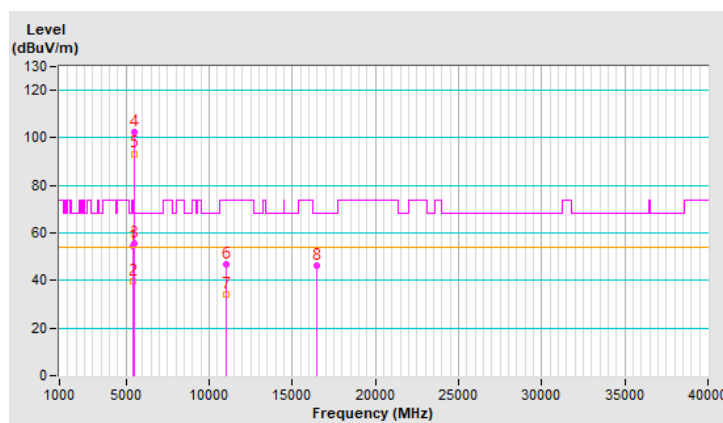


RF Mode	802.11ac (VHT20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	54.7 PK	74.0	-19.3	1.96 H	211	51.2	3.5
2	5460.00	39.8 AV	54.0	-14.2	1.96 H	211	36.3	3.5
3	#5470.00	55.6 PK	68.2	-12.6	1.96 H	211	52.1	3.5
4	*5500.00	102.4 PK			1.96 H	211	98.9	3.5
5	*5500.00	93.4 AV			1.96 H	211	89.9	3.5
6	11000.00	46.8 PK	74.0	-27.2	1.80 H	197	32.6	14.2
7	11000.00	34.3 AV	54.0	-19.7	1.80 H	197	20.1	14.2
8	#16500.00	46.0 PK	68.2	-22.2	2.12 H	219	30.0	16.0

Remarks:

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

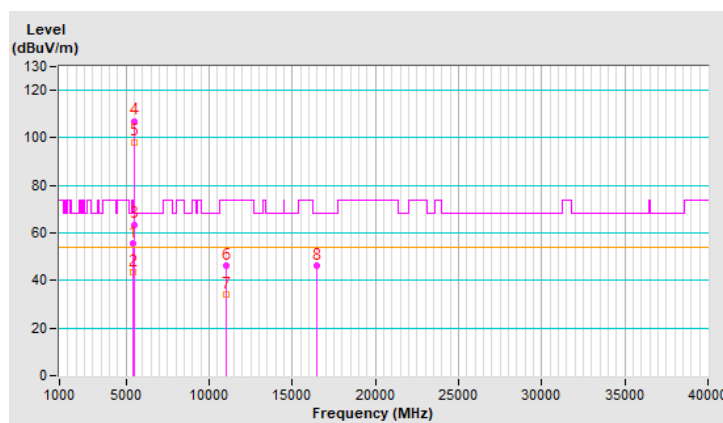


RF Mode	802.11ac (VHT20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	55.4 PK	74.0	-18.6	2.77 V	173	51.9	3.5
2	5460.00	43.5 AV	54.0	-10.5	2.77 V	173	40.0	3.5
3	#5470.00	63.6 PK	68.2	-4.6	2.77 V	173	60.1	3.5
4	*5500.00	107.1 PK			2.77 V	173	103.6	3.5
5	*5500.00	98.3 AV			2.77 V	173	94.8	3.5
6	11000.00	46.5 PK	74.0	-27.5	1.32 V	82	32.3	14.2
7	11000.00	33.9 AV	54.0	-20.1	1.32 V	82	19.7	14.2
8	#16500.00	46.3 PK	68.2	-21.9	2.38 V	134	30.3	16.0

Remarks:

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

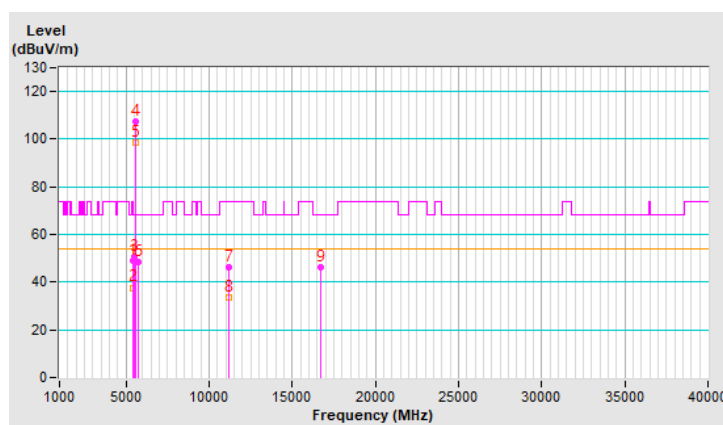


RF Mode	802.11ac (VHT20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	5416.00	48.8 PK	74.0	-25.2	1.90 H	213	45.4	3.4
2	5416.00	37.7 AV	54.0	-16.3	1.90 H	213	34.3	3.4
3	#5466.00	50.7 PK	68.2	-17.5	1.90 H	213	47.2	3.5
4	*5580.00	107.4 PK			1.90 H	213	103.6	3.8
5	*5580.00	98.8 AV			1.90 H	213	95.0	3.8
6	#5752.00	48.5 PK	68.2	-19.7	1.90 H	213	44.4	4.1
7	11160.00	46.5 PK	74.0	-27.5	1.81 H	184	32.1	14.4
8	11160.00	33.6 AV	54.0	-20.4	1.81 H	184	19.2	14.4
9	#16740.00	46.3 PK	68.2	-21.9	2.20 H	209	28.7	17.6

Remarks:

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

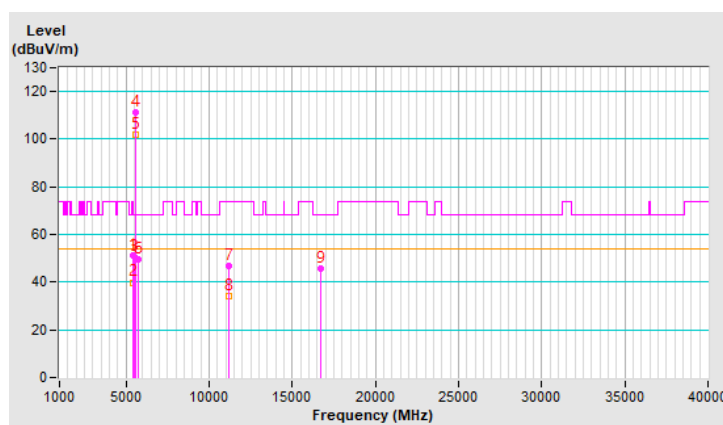


RF Mode	802.11ac (VHT20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	5416.00	51.0 PK	74.0	-23.0	2.70 V	176	47.6	3.4
2	5416.00	39.9 AV	54.0	-14.1	2.70 V	176	36.5	3.4
3	#5466.00	50.6 PK	68.2	-17.6	2.70 V	176	47.1	3.5
4	*5580.00	111.2 PK			2.70 V	176	107.4	3.8
5	*5580.00	101.9 AV			2.70 V	176	98.1	3.8
6	#5752.00	49.4 PK	68.2	-18.8	1.00 V	0	45.3	4.1
7	11160.00	46.6 PK	74.0	-27.4	1.36 V	108	32.2	14.4
8	11160.00	34.2 AV	54.0	-19.8	1.36 V	108	19.8	14.4
9	#16740.00	45.8 PK	68.2	-22.4	2.35 V	121	28.2	17.6

Remarks:

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

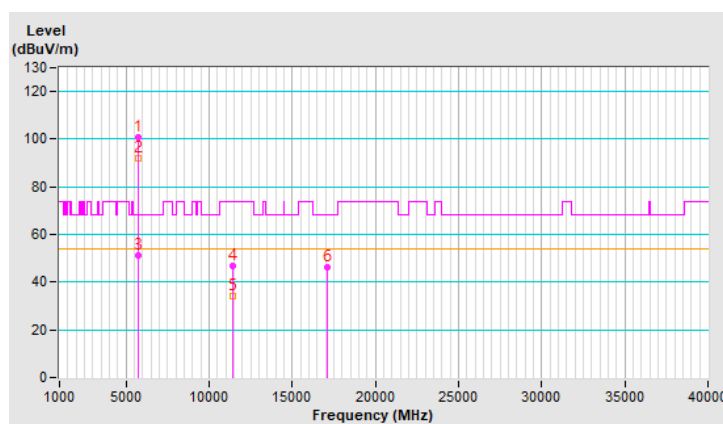


RF Mode	802.11ac (VHT20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	100.9 PK			1.93 H	218	97.0	3.9
2	*5700.00	92.2 AV			1.93 H	218	88.3	3.9
3	#5725.00	51.3 PK	68.2	-16.9	1.93 H	218	47.3	4.0
4	11400.00	46.7 PK	74.0	-27.3	1.81 H	205	31.7	15.0
5	11400.00	33.9 AV	54.0	-20.1	1.81 H	205	18.9	15.0
6	#17100.00	46.1 PK	68.2	-22.1	2.21 H	212	28.3	17.8

Remarks:

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

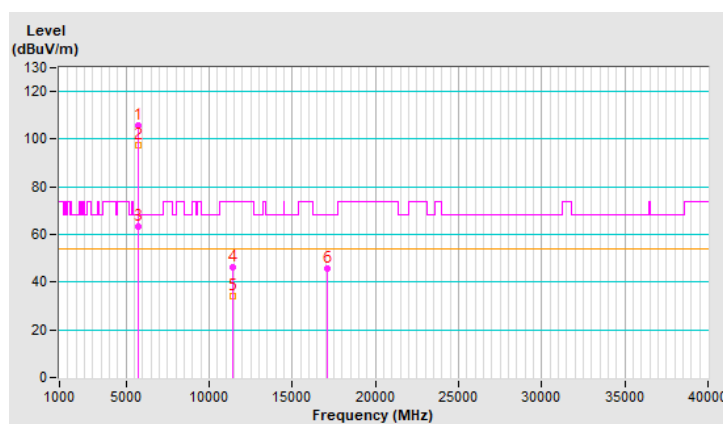


RF Mode	802.11ac (VHT20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	105.8 PK			2.49 V	185	101.9	3.9
2	*5700.00	97.4 AV			2.49 V	185	93.5	3.9
3	#5725.00	63.3 PK	68.2	-4.9	2.49 V	185	59.3	4.0
4	11400.00	46.3 PK	74.0	-27.7	1.42 V	86	31.3	15.0
5	11400.00	33.9 AV	54.0	-20.1	1.42 V	86	18.9	15.0
6	#17100.00	45.7 PK	68.2	-22.5	2.44 V	112	27.9	17.8

Remarks:

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

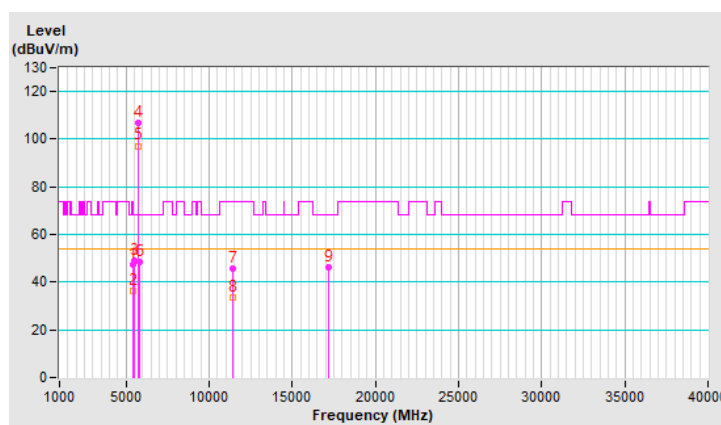


RF Mode	802.11ac (VHT20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	47.3 PK	74.0	-26.7	1.89 H	217	43.8	3.5
2	5460.00	36.3 AV	54.0	-17.7	1.89 H	217	32.8	3.5
3	#5470.00	48.8 PK	68.2	-19.4	1.89 H	217	45.3	3.5
4	*5720.00	106.7 PK			1.89 H	217	102.7	4.0
5	*5720.00	97.2 AV			1.89 H	217	93.2	4.0
6	#5850.00	48.4 PK	68.2	-19.8	1.89 H	217	44.1	4.3
7	11440.00	45.9 PK	74.0	-28.1	1.83 H	192	30.9	15.0
8	11440.00	33.6 AV	54.0	-20.4	1.83 H	192	18.6	15.0
9	#17160.00	46.5 PK	68.2	-21.7	2.14 H	223	29.0	17.5

Remarks:

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

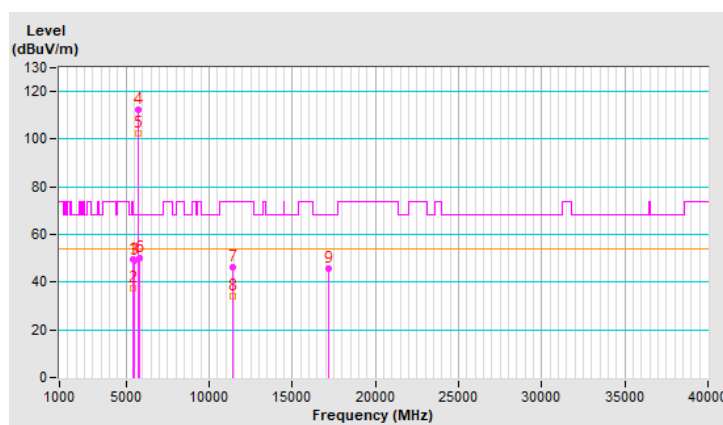


RF Mode	802.11ac (VHT20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	49.4 PK	74.0	-24.6	2.35 V	189	45.9	3.5
2	5460.00	37.3 AV	54.0	-16.7	2.35 V	189	33.8	3.5
3	#5470.00	48.9 PK	68.2	-19.3	2.35 V	189	45.4	3.5
4	*5720.00	112.3 PK			2.35 V	189	108.3	4.0
5	*5720.00	102.6 AV			2.35 V	189	98.6	4.0
6	#5850.00	50.2 PK	68.2	-18.0	2.35 V	189	45.9	4.3
7	11440.00	46.3 PK	74.0	-27.7	1.42 V	105	31.3	15.0
8	11440.00	34.0 AV	54.0	-20.0	1.42 V	105	19.0	15.0
9	#17160.00	45.7 PK	68.2	-22.5	2.43 V	118	28.2	17.5

Remarks:

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

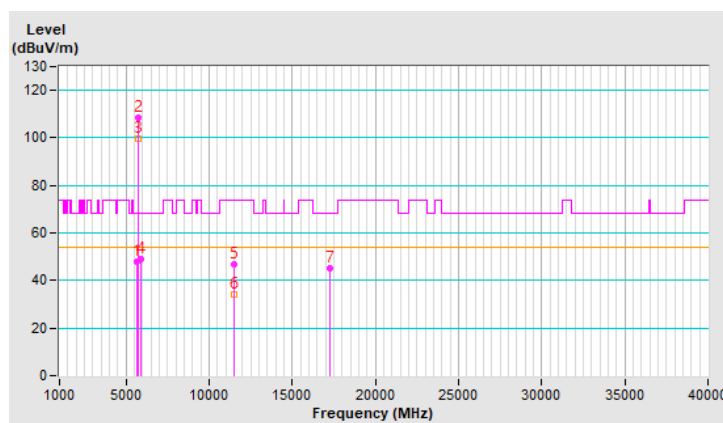


RF Mode	802.11ac (VHT20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	#5645.00	47.8 PK	68.2	-20.4	1.95 H	119	43.9	3.9
2	*5745.00	108.4 PK			2.20 H	119	104.4	4.0
3	*5745.00	99.6 AV			2.20 H	119	95.6	4.0
4	#5929.00	49.1 PK	68.2	-19.1	1.95 H	119	44.5	4.6
5	11490.00	46.8 PK	74.0	-27.2	1.76 H	180	31.6	15.2
6	11490.00	34.2 AV	54.0	-19.8	1.76 H	180	19.0	15.2
7	#17235.00	45.4 PK	68.2	-22.8	2.11 H	219	27.5	17.9

Remarks:

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

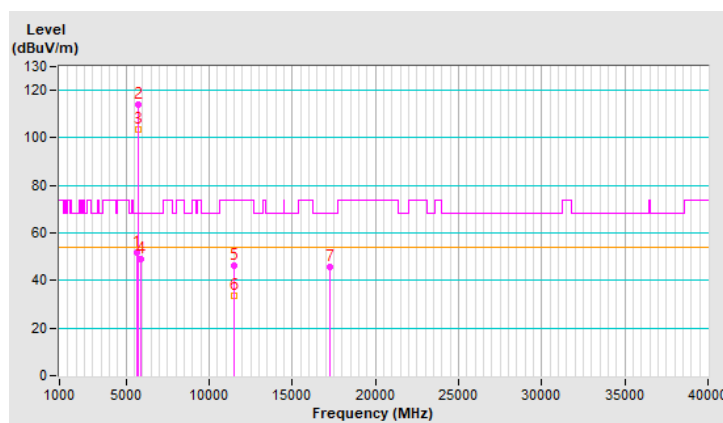


RF Mode	802.11ac (VHT20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.00	51.9 PK	68.2	-16.3	2.55 V	185	48.0	3.9
2	*5745.00	113.8 PK			2.55 V	185	109.8	4.0
3	*5745.00	103.4 AV			2.55 V	185	99.4	4.0
4	#5929.00	48.9 PK	68.2	-19.3	2.55 V	185	44.3	4.6
5	11490.00	46.0 PK	74.0	-28.0	1.40 V	105	30.8	15.2
6	11490.00	33.8 AV	54.0	-20.2	1.40 V	105	18.6	15.2
7	#17235.00	45.7 PK	68.2	-22.5	2.37 V	132	27.8	17.9

Remarks:

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

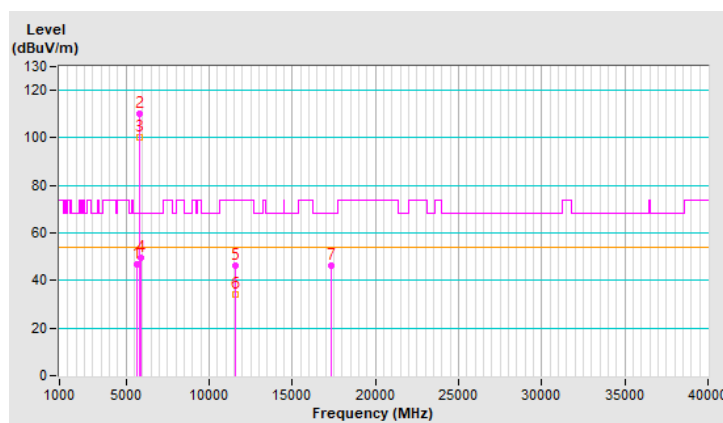


RF Mode	802.11ac (VHT20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	#5642.00	46.6 PK	68.2	-21.6	2.18 H	119	42.7	3.9
2	*5785.00	110.0 PK			2.18 H	119	105.8	4.2
3	*5785.00	100.3 AV			2.18 H	119	96.1	4.2
4	#5927.00	49.5 PK	68.2	-18.7	2.18 H	119	44.9	4.6
5	11570.00	46.3 PK	74.0	-27.7	1.83 H	181	31.4	14.9
6	11570.00	33.9 AV	54.0	-20.1	1.83 H	181	19.0	14.9
7	#17355.00	46.1 PK	68.2	-22.1	2.18 H	208	27.0	19.1

Remarks:

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

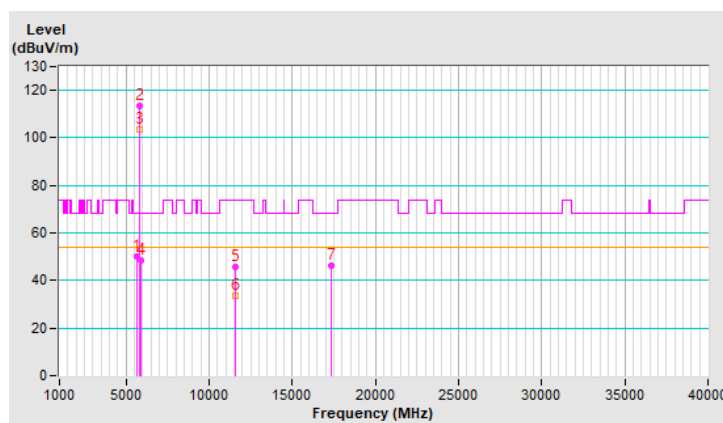


RF Mode	802.11ac (VHT20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	#5642.00	49.9 PK	68.2	-18.3	2.34 V	190	46.0	3.9
2	*5785.00	113.3 PK			2.34 V	190	109.1	4.2
3	*5785.00	103.5 AV			2.34 V	190	99.3	4.2
4	#5927.00	48.7 PK	68.2	-19.5	2.34 V	190	44.1	4.6
5	11570.00	45.6 PK	74.0	-28.4	1.38 V	101	30.7	14.9
6	11570.00	33.4 AV	54.0	-20.6	1.38 V	101	18.5	14.9
7	#17355.00	46.1 PK	68.2	-22.1	2.40 V	111	27.0	19.1

Remarks:

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

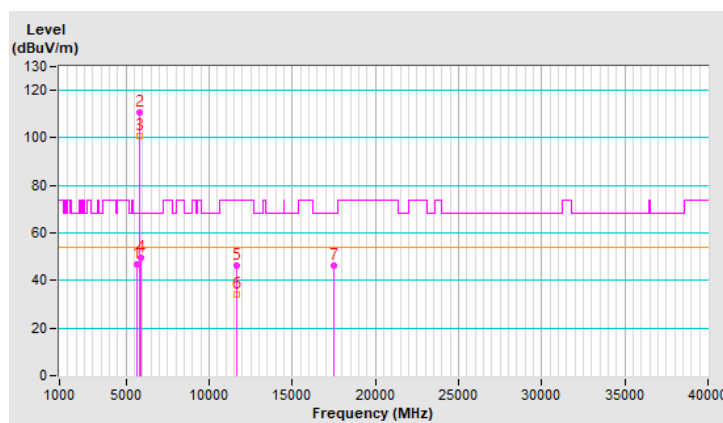


RF Mode	802.11ac (VHT20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	#5648.00	46.7 PK	68.2	-21.5	2.12 H	120	42.8	3.9
2	*5825.00	110.5 PK			2.12 H	120	106.2	4.3
3	*5825.00	100.8 AV			2.12 H	120	96.5	4.3
4	#5926.00	49.6 PK	68.2	-18.6	2.12 H	120	45.0	4.6
5	11650.00	46.4 PK	74.0	-27.6	1.77 H	193	31.8	14.6
6	11650.00	34.1 AV	54.0	-19.9	1.77 H	193	19.5	14.6
7	#17475.00	46.0 PK	68.2	-22.2	2.11 H	227	25.5	20.5

Remarks:

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

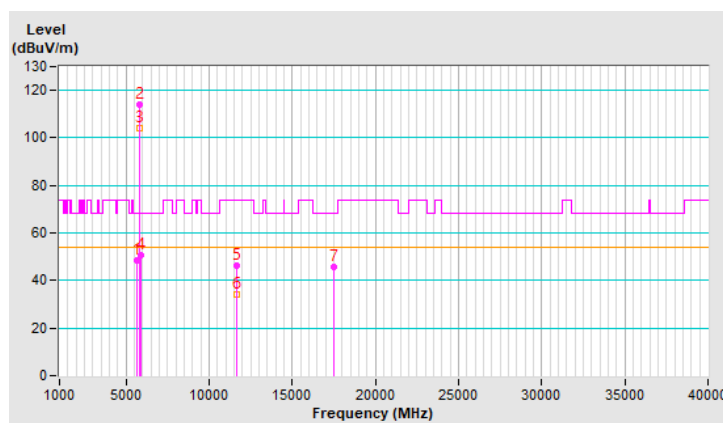


RF Mode	802.11ac (VHT20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	48.5 PK	68.2	-19.7	2.08 V	140	44.6	3.9
2	*5825.00	114.0 PK			2.08 V	140	109.7	4.3
3	*5825.00	103.8 AV			2.08 V	140	99.5	4.3
4	#5926.00	50.9 PK	68.2	-17.3	2.08 V	140	46.3	4.6
5	11650.00	46.1 PK	74.0	-27.9	1.33 V	81	31.5	14.6
6	11650.00	33.9 AV	54.0	-20.1	1.33 V	81	19.3	14.6
7	#17475.00	45.8 PK	68.2	-22.4	2.42 V	132	25.3	20.5

Remarks:

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

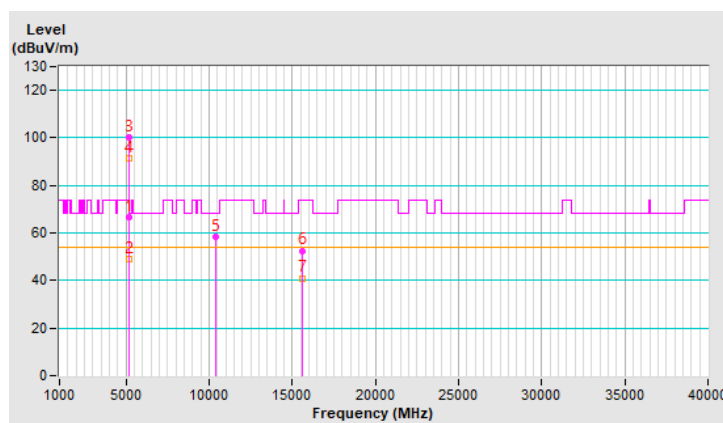


RF Mode	802.11ac (VHT40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.4 PK	74.0	-7.6	1.85 H	197	62.8	3.6
2	5150.00	49.0 AV	54.0	-5.0	1.85 H	197	45.4	3.6
3	*5190.00	100.2 PK			1.85 H	197	96.8	3.4
4	*5190.00	91.6 AV			1.85 H	197	88.2	3.4
5	#10380.00	58.3 PK	68.2	-9.9	1.59 H	176	44.4	13.9
6	15570.00	52.6 PK	74.0	-21.4	1.66 H	84	37.1	15.5
7	15570.00	41.0 AV	54.0	-13.0	1.66 H	84	25.5	15.5

Remarks:

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

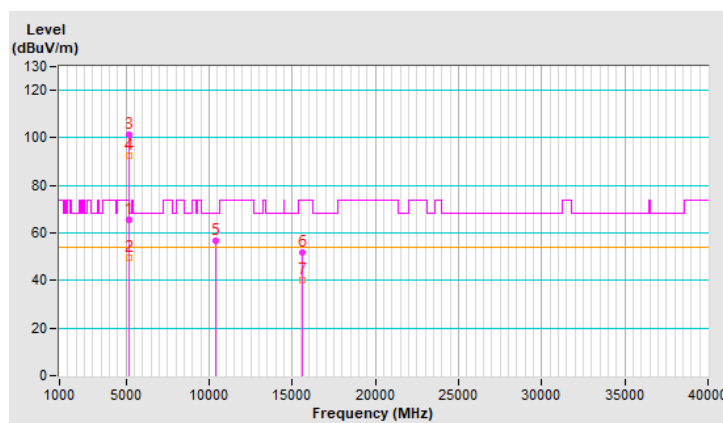


RF Mode	802.11ac (VHT40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.6 PK	74.0	-8.4	1.50 V	201	62.0	3.6
2	5150.00	49.8 AV	54.0	-4.2	1.50 V	201	46.2	3.6
3	*5190.00	101.3 PK			1.50 V	201	97.9	3.4
4	*5190.00	92.7 AV			1.50 V	201	89.3	3.4
5	#10380.00	56.6 PK	68.2	-11.6	1.56 V	186	42.7	13.9
6	15570.00	51.9 PK	74.0	-22.1	3.02 V	239	36.4	15.5
7	15570.00	40.4 AV	54.0	-13.6	3.02 V	239	24.9	15.5

Remarks:

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

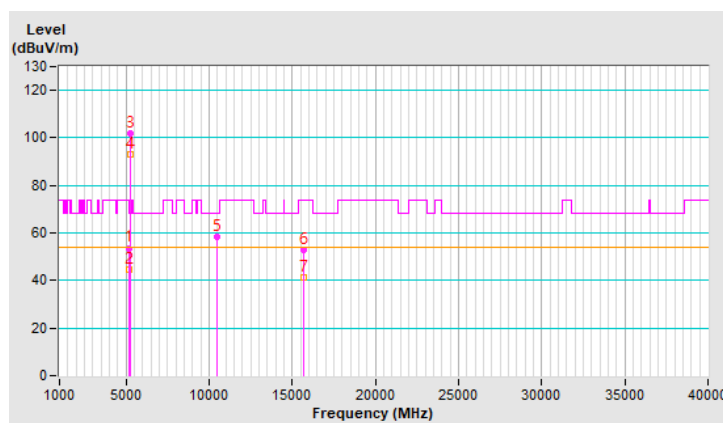


RF Mode	802.11ac (VHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	53.7 PK	74.0	-20.3	1.92 H	292	50.1	3.6
2	5150.00	44.7 AV	54.0	-9.3	1.92 H	292	41.1	3.6
3	*5230.00	101.9 PK			1.92 H	292	98.6	3.3
4	*5230.00	92.9 AV			1.92 H	292	89.6	3.3
5	#10460.00	58.3 PK	68.2	-9.9	1.59 H	154	44.2	14.1
6	15690.00	53.1 PK	74.0	-20.9	1.60 H	92	39.1	14.0
7	15690.00	41.3 AV	54.0	-12.7	1.60 H	92	27.3	14.0

Remarks:

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

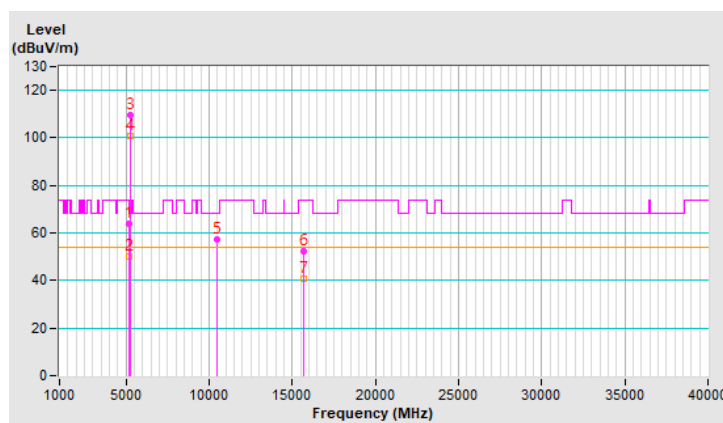


RF Mode	802.11ac (VHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.0 PK	74.0	-10.0	2.83 V	174	60.4	3.6
2	5150.00	49.9 AV	54.0	-4.1	2.83 V	174	46.3	3.6
3	*5230.00	109.6 PK			2.83 V	174	106.3	3.3
4	*5230.00	100.6 AV			2.83 V	174	97.3	3.3
5	#10460.00	57.3 PK	68.2	-10.9	1.57 V	186	43.2	14.1
6	15690.00	52.3 PK	74.0	-21.7	2.95 V	209	38.3	14.0
7	15690.00	40.9 AV	54.0	-13.1	2.95 V	209	26.9	14.0

Remarks:

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

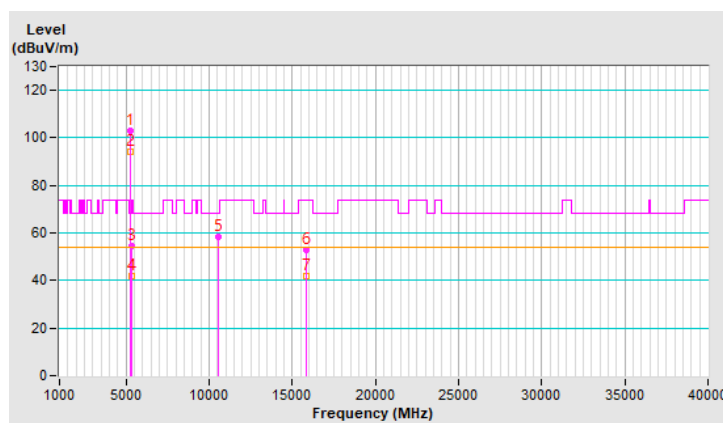


RF Mode	802.11ac (VHT40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5270.00	102.9 PK			1.89 H	294	99.8	3.1
2	*5270.00	93.9 AV			1.89 H	294	90.8	3.1
3	5350.00	54.4 PK	74.0	-19.6	1.89 H	294	51.1	3.3
4	5350.00	42.0 AV	54.0	-12.0	1.89 H	294	38.7	3.3
5	#10540.00	58.3 PK	68.2	-9.9	1.67 H	165	44.3	14.0
6	15810.00	53.0 PK	74.0	-21.0	1.57 H	88	38.9	14.1
7	15810.00	41.6 AV	54.0	-12.4	1.57 H	88	27.5	14.1

Remarks:

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

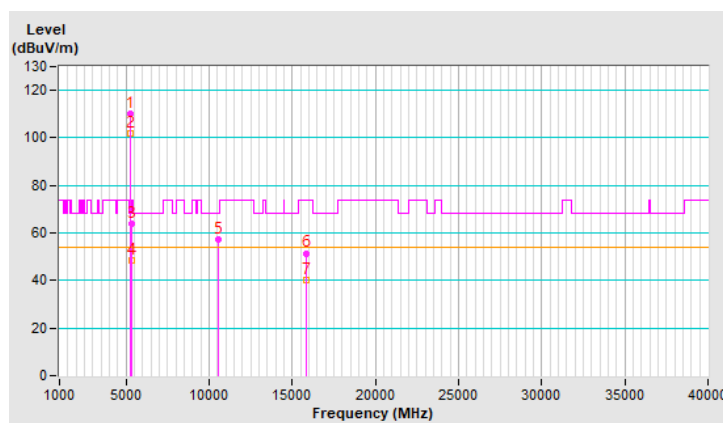


RF Mode	802.11ac (VHT40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5270.00	110.2 PK			2.74 V	171	107.1	3.1
2	*5270.00	101.7 AV			2.74 V	171	98.6	3.1
3	5350.00	64.1 PK	74.0	-9.9	2.74 V	171	60.8	3.3
4	5350.00	48.7 AV	54.0	-5.3	2.74 V	171	45.4	3.3
5	#10540.00	57.3 PK	68.2	-10.9	1.55 V	194	43.3	14.0
6	15810.00	51.5 PK	74.0	-22.5	3.00 V	239	37.4	14.1
7	15810.00	40.0 AV	54.0	-14.0	3.00 V	239	25.9	14.1

Remarks:

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

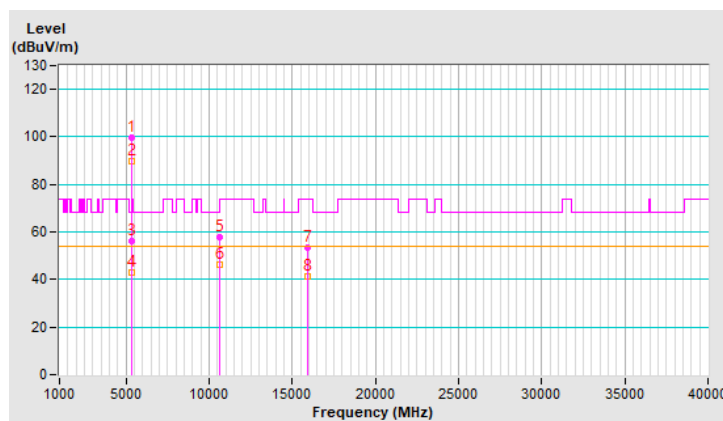


RF Mode	802.11ac (VHT40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	99.5 PK			2.08 H	202	96.4	3.1
2	*5310.00	90.0 AV			2.08 H	202	86.9	3.1
3	5350.00	56.1 PK	74.0	-17.9	2.08 H	202	52.8	3.3
4	5350.00	42.7 AV	54.0	-11.3	2.08 H	202	39.4	3.3
5	10620.00	57.8 PK	74.0	-16.2	1.63 H	177	44.1	13.7
6	10620.00	46.1 AV	54.0	-7.9	1.63 H	177	32.4	13.7
7	15930.00	53.5 PK	74.0	-20.5	1.60 H	84	39.2	14.3
8	15930.00	41.5 AV	54.0	-12.5	1.60 H	84	27.2	14.3

Remarks:

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

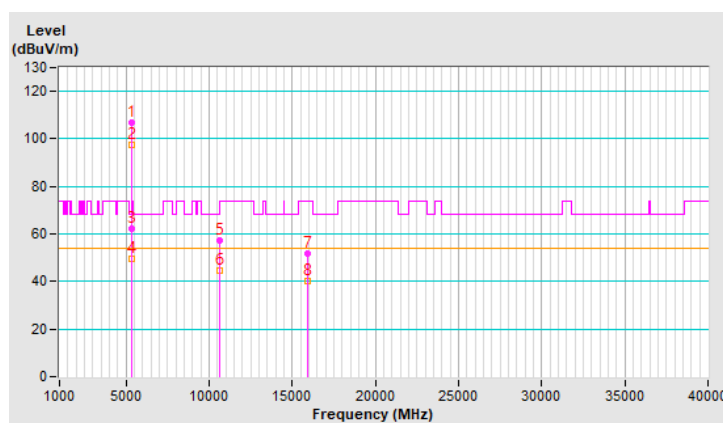


RF Mode	802.11ac (VHT40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	106.6 PK			2.58 V	175	103.5	3.1
2	*5310.00	97.7 AV			2.58 V	175	94.6	3.1
3	5350.00	62.1 PK	74.0	-11.9	2.58 V	175	58.8	3.3
4	5350.00	49.4 AV	54.0	-4.6	2.58 V	175	46.1	3.3
5	10620.00	57.1 PK	74.0	-16.9	1.64 V	204	43.4	13.7
6	10620.00	44.7 AV	54.0	-9.3	1.64 V	204	31.0	13.7
7	15930.00	51.9 PK	74.0	-22.1	2.96 V	216	37.6	14.3
8	15930.00	40.4 AV	54.0	-13.6	2.96 V	216	26.1	14.3

Remarks:

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

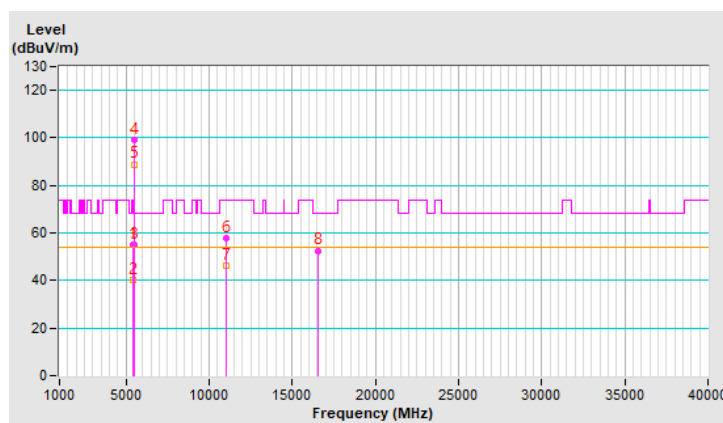


RF Mode	802.11ac (VHT40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.2 PK	74.0	-18.8	1.89 H	211	51.7	3.5
2	5460.00	40.1 AV	54.0	-13.9	1.89 H	211	36.6	3.5
3	#5470.00	55.0 PK	68.2	-13.2	1.89 H	211	51.5	3.5
4	*5510.00	99.0 PK			1.89 H	211	95.4	3.6
5	*5510.00	89.0 AV			1.89 H	211	85.4	3.6
6	11020.00	57.6 PK	74.0	-16.4	1.66 H	156	43.3	14.3
7	11020.00	46.1 AV	54.0	-7.9	1.66 H	156	31.8	14.3
8	#16530.00	52.6 PK	68.2	-15.6	1.59 H	105	36.5	16.1

Remarks:

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

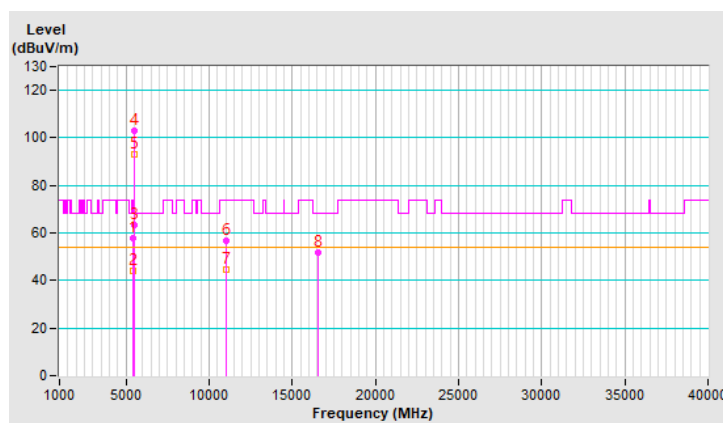


RF Mode	802.11ac (VHT40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	58.0 PK	74.0	-16.0	2.75 V	174	54.5	3.5
2	5460.00	44.2 AV	54.0	-9.8	2.75 V	174	40.7	3.5
3	#5470.00	63.5 PK	68.2	-4.7	2.75 V	174	60.0	3.5
4	*5510.00	102.8 PK			2.75 V	174	99.2	3.6
5	*5510.00	93.2 AV			2.75 V	174	89.6	3.6
6	11020.00	56.8 PK	74.0	-17.2	1.55 V	204	42.5	14.3
7	11020.00	44.4 AV	54.0	-9.6	1.55 V	204	30.1	14.3
8	#16530.00	52.0 PK	68.2	-16.2	2.93 V	221	35.9	16.1

Remarks:

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

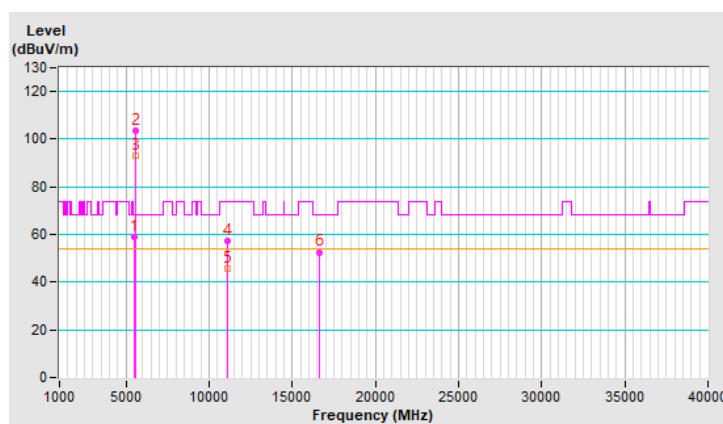


RF Mode	802.11ac (VHT40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	#5463.00	58.8 PK	68.2	-9.4	1.96 H	212	55.3	3.5
2	*5550.00	103.7 PK			1.96 H	212	100.1	3.6
3	*5550.00	93.2 AV			1.96 H	212	89.6	3.6
4	11100.00	57.4 PK	74.0	-16.6	1.62 H	161	42.9	14.5
5	11100.00	45.6 AV	54.0	-8.4	1.62 H	161	31.1	14.5
6	#16650.00	52.6 PK	68.2	-15.6	1.63 H	82	35.5	17.1

Remarks:

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

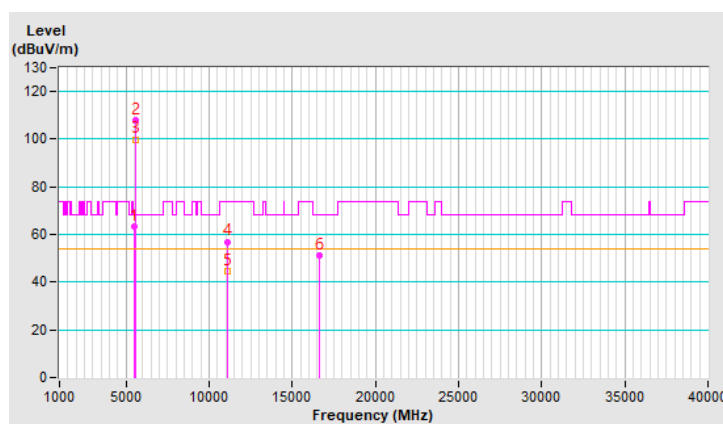


RF Mode	802.11ac (VHT40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	#5463.00	63.3 PK	68.2	-4.9	2.75 V	174	59.8	3.5
2	*5550.00	107.8 PK			2.75 V	174	104.2	3.6
3	*5550.00	100.0 AV			2.75 V	174	96.4	3.6
4	11100.00	57.0 PK	74.0	-17.0	1.62 V	207	42.5	14.5
5	11100.00	44.7 AV	54.0	-9.3	1.62 V	207	30.2	14.5
6	#16650.00	51.3 PK	68.2	-16.9	2.96 V	223	34.2	17.1

Remarks:

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

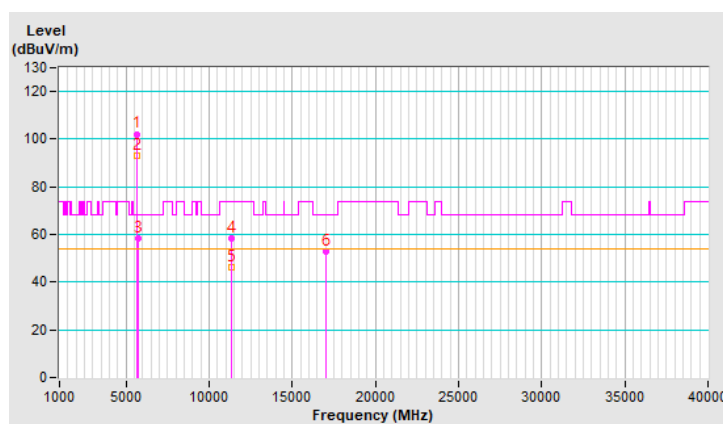


RF Mode	802.11ac (VHT40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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			1.94 H	219	98.3	3.9
2	*5670.00	92.8 AV			1.94 H	219	88.9	3.9
3	#5725.00	58.4 PK	68.2	-9.8	1.94 H	219	54.4	4.0
4	11340.00	58.3 PK	74.0	-15.7	1.57 H	149	43.6	14.7
5	11340.00	46.4 AV	54.0	-7.6	1.57 H	149	31.7	14.7
6	#17010.00	53.0 PK	68.2	-15.2	1.55 H	92	34.7	18.3

Remarks:

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

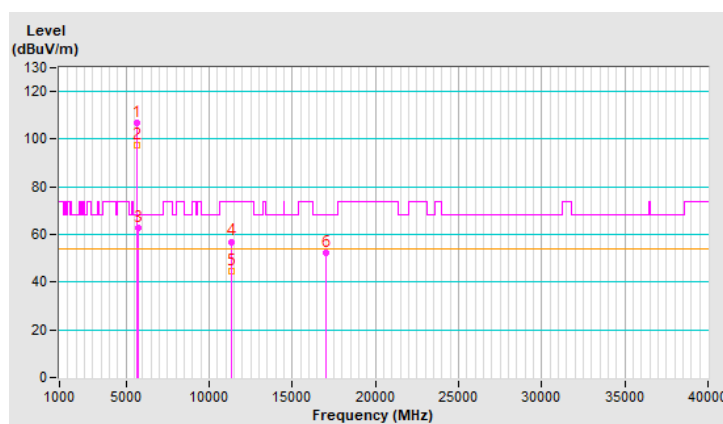


RF Mode	802.11ac (VHT40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	106.7 PK			2.41 V	190	102.8	3.9
2	*5670.00	97.4 AV			2.41 V	190	93.5	3.9
3	#5725.00	63.0 PK	68.2	-5.2	2.41 V	190	59.0	4.0
4	11340.00	57.0 PK	74.0	-17.0	1.60 V	187	42.3	14.7
5	11340.00	44.6 AV	54.0	-9.4	1.60 V	187	29.9	14.7
6	#17010.00	52.4 PK	68.2	-15.8	2.93 V	213	34.1	18.3

Remarks:

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

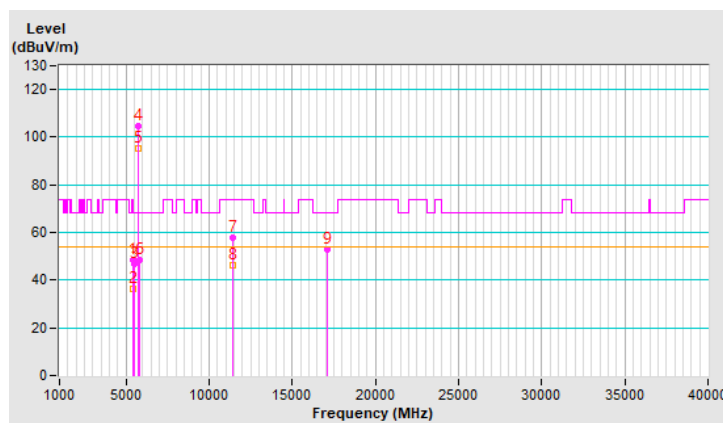


RF Mode	802.11ac (VHT40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	48.4 PK	74.0	-25.6	1.94 H	216	44.9	3.5
2	5460.00	36.4 AV	54.0	-17.6	1.94 H	216	32.9	3.5
3	#5470.00	47.0 PK	68.2	-21.2	1.94 H	216	43.5	3.5
4	*5710.00	104.7 PK			1.94 H	216	100.7	4.0
5	*5710.00	95.2 AV			1.94 H	216	91.2	4.0
6	#5850.00	48.6 PK	68.2	-19.6	1.94 H	216	44.3	4.3
7	11420.00	57.8 PK	74.0	-16.2	1.61 H	162	42.8	15.0
8	11420.00	46.1 AV	54.0	-7.9	1.61 H	162	31.1	15.0
9	#17130.00	52.8 PK	68.2	-15.4	1.61 H	92	35.1	17.7

Remarks:

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

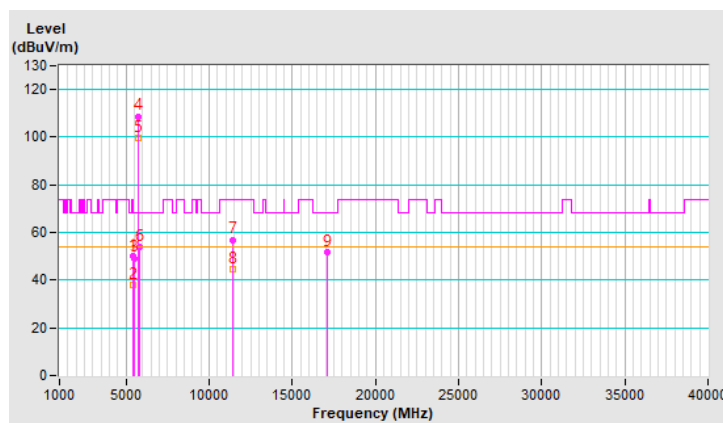


RF Mode	802.11ac (VHT40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	49.9 PK	74.0	-24.1	2.46 V	188	46.4	3.5
2	5460.00	37.9 AV	54.0	-16.1	2.46 V	188	34.4	3.5
3	#5470.00	49.3 PK	68.2	-18.9	2.46 V	188	45.8	3.5
4	*5710.00	108.8 PK			2.46 V	188	104.8	4.0
5	*5710.00	99.6 AV			2.46 V	188	95.6	4.0
6	#5850.00	54.1 PK	68.2	-14.1	2.46 V	188	49.8	4.3
7	11420.00	57.0 PK	74.0	-17.0	1.58 V	200	42.0	15.0
8	11420.00	44.8 AV	54.0	-9.2	1.58 V	200	29.8	15.0
9	#17130.00	51.9 PK	68.2	-16.3	2.96 V	225	34.2	17.7

Remarks:

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

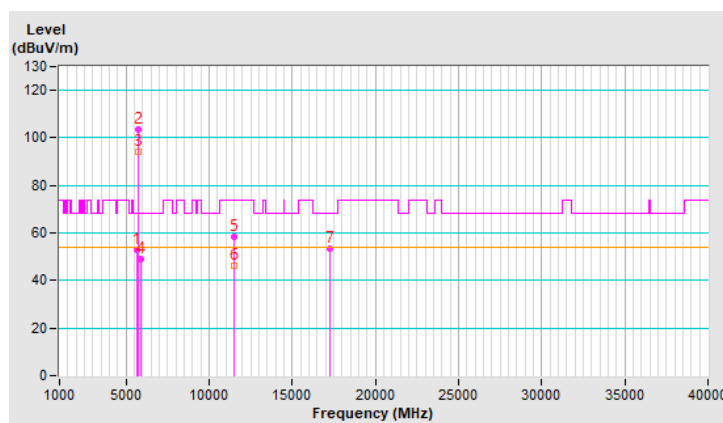


RF Mode	802.11ac (VHT40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	52.9 PK	68.2	-15.3	1.94 H	216	49.0	3.9
2	*5755.00	103.7 PK			1.94 H	216	99.6	4.1
3	*5755.00	94.2 AV			1.94 H	216	90.1	4.1
4	#5928.00	48.9 PK	68.2	-19.3	1.94 H	216	44.3	4.6
5	11510.00	58.2 PK	74.0	-15.8	1.55 H	171	43.1	15.1
6	11510.00	46.2 AV	54.0	-7.8	1.55 H	171	31.1	15.1
7	#17265.00	53.2 PK	68.2	-15.0	1.60 H	101	34.8	18.4

Remarks:

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

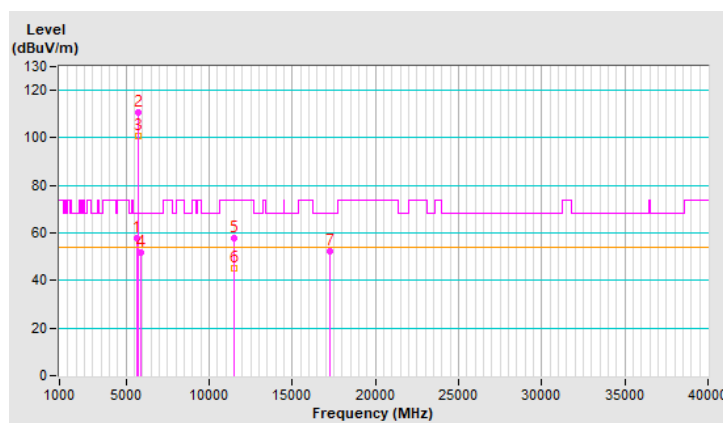


RF Mode	802.11ac (VHT40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	57.9 PK	68.2	-10.3	2.47 V	185	54.0	3.9
2	*5755.00	110.8 PK			2.47 V	185	106.7	4.1
3	*5755.00	100.6 AV			2.47 V	185	96.5	4.1
4	#5928.00	51.7 PK	68.2	-16.5	2.47 V	185	47.1	4.6
5	11510.00	57.7 PK	74.0	-16.3	1.57 V	188	42.6	15.1
6	11510.00	45.2 AV	54.0	-8.8	1.57 V	188	30.1	15.1
7	#17265.00	52.3 PK	68.2	-15.9	2.94 V	229	33.9	18.4

Remarks:

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

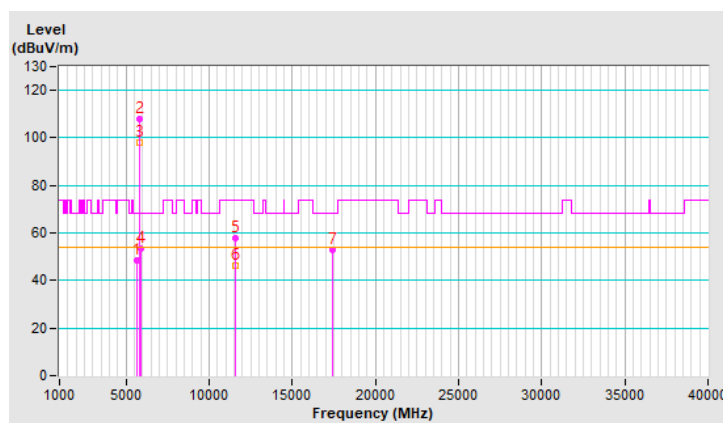


RF Mode	802.11ac (VHT40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.00	48.7 PK	68.2	-19.5	2.16 H	118	44.8	3.9
2	*5795.00	107.9 PK			2.16 H	118	103.7	4.2
3	*5795.00	98.2 AV			2.16 H	118	94.0	4.2
4	#5927.00	53.4 PK	68.2	-14.8	2.16 H	118	48.8	4.6
5	11590.00	57.9 PK	74.0	-16.1	1.59 H	160	43.1	14.8
6	11590.00	46.4 AV	54.0	-7.6	1.59 H	160	31.6	14.8
7	#17385.00	52.7 PK	68.2	-15.5	1.60 H	79	33.6	19.1

Remarks:

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

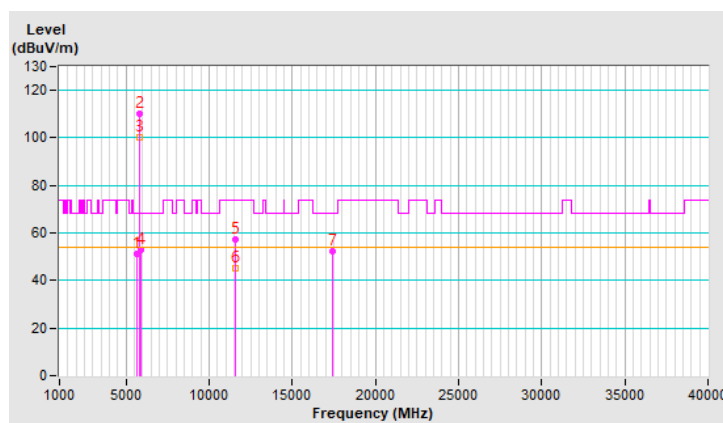


RF Mode	802.11ac (VHT40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	#5647.00	51.2 PK	68.2	-17.0	2.25 V	186	47.3	3.9
2	*5795.00	110.0 PK			2.25 V	186	105.8	4.2
3	*5795.00	100.2 AV			2.25 V	186	96.0	4.2
4	#5927.00	52.8 PK	68.2	-15.4	2.25 V	186	48.2	4.6
5	11590.00	57.5 PK	74.0	-16.5	1.55 V	185	42.7	14.8
6	11590.00	45.1 AV	54.0	-8.9	1.55 V	185	30.3	14.8
7	#17385.00	52.3 PK	68.2	-15.9	2.92 V	223	33.2	19.1

Remarks:

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

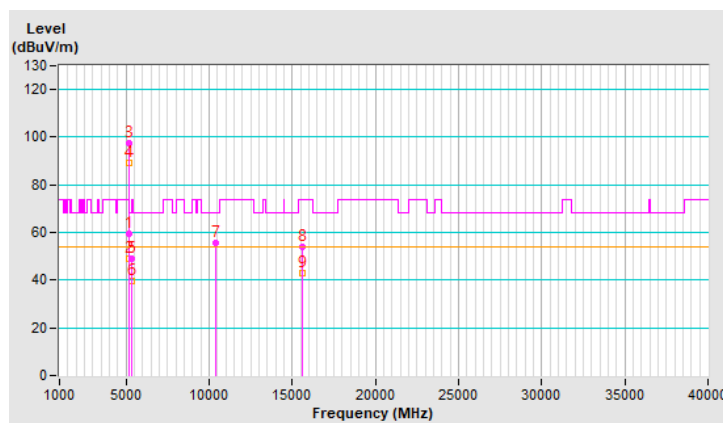


RF Mode	802.11ac (VHT80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 5.1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	59.4 PK	74.0	-14.6	2.27 H	206	55.8	3.6
2	5150.00	48.8 AV	54.0	-5.2	2.27 H	206	45.2	3.6
3	*5210.00	97.5 PK			2.27 H	206	94.2	3.3
4	*5210.00	89.1 AV			2.27 H	206	85.8	3.3
5	5350.00	49.2 PK	74.0	-24.8	2.27 H	206	45.9	3.3
6	5350.00	39.4 AV	54.0	-14.6	2.27 H	206	36.1	3.3
7	#10420.00	55.5 PK	68.2	-12.7	1.88 H	169	41.6	13.9
8	15630.00	54.2 PK	74.0	-19.8	1.73 H	78	39.2	15.0
9	15630.00	42.8 AV	54.0	-11.2	1.73 H	78	27.8	15.0

Remarks:

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

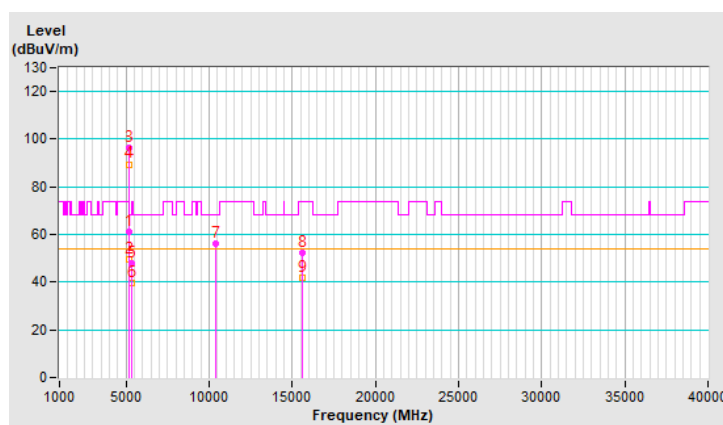


RF Mode	802.11ac (VHT80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 5.1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	61.0 PK	74.0	-13.0	1.71 V	359	57.4	3.6
2	5150.00	49.4 AV	54.0	-4.6	1.71 V	359	45.8	3.6
3	*5210.00	96.4 PK			1.71 V	359	93.1	3.3
4	*5210.00	89.5 AV			1.71 V	359	86.2	3.3
5	5350.00	47.9 PK	74.0	-26.1	1.71 V	359	44.6	3.3
6	5350.00	39.8 AV	54.0	-14.2	1.71 V	359	36.5	3.3
7	#10420.00	56.2 PK	68.2	-12.0	1.69 V	202	42.3	13.9
8	15630.00	52.5 PK	74.0	-21.5	2.90 V	235	37.5	15.0
9	15630.00	41.6 AV	54.0	-12.4	2.90 V	235	26.6	15.0

Remarks:

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

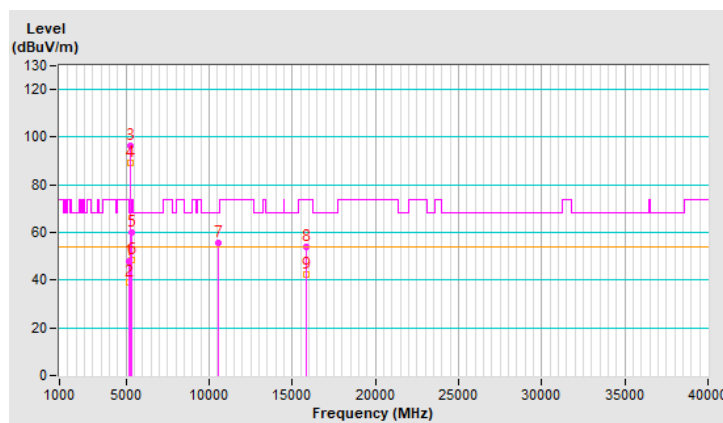


RF Mode	802.11ac (VHT80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 5.1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	48.0 PK	74.0	-26.0	2.33 H	210	44.4	3.6
2	5150.00	39.2 AV	54.0	-14.8	2.33 H	210	35.6	3.6
3	*5290.00	96.4 PK			2.33 H	210	93.3	3.1
4	*5290.00	89.2 AV			2.33 H	210	86.1	3.1
5	5350.00	60.1 PK	74.0	-13.9	2.33 H	210	56.8	3.3
6	5350.00	48.6 AV	54.0	-5.4	2.33 H	210	45.3	3.3
7	#10580.00	55.8 PK	68.2	-12.4	1.89 H	183	41.9	13.9
8	15870.00	54.2 PK	74.0	-19.8	1.68 H	83	40.1	14.1
9	15870.00	42.5 AV	54.0	-11.5	1.68 H	83	28.4	14.1

Remarks:

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

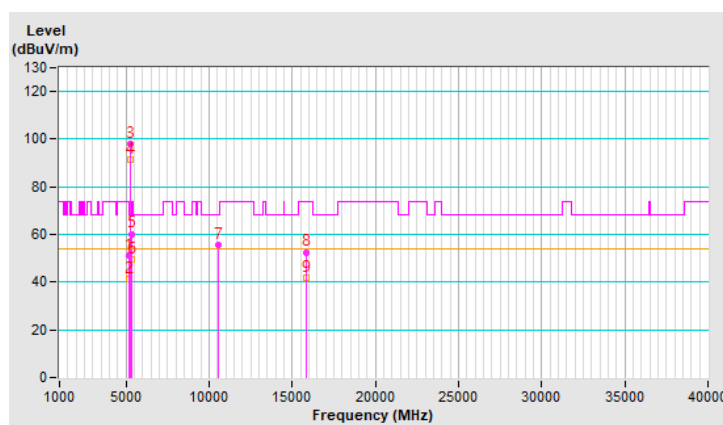


RF Mode	802.11ac (VHT80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 5.1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	51.4 PK	74.0	-22.6	2.40 V	153	47.8	3.6
2	5150.00	41.3 AV	54.0	-12.7	2.40 V	153	37.7	3.6
3	*5290.00	98.2 PK			2.40 V	153	95.1	3.1
4	*5290.00	91.4 AV			2.40 V	153	88.3	3.1
5	5350.00	60.3 PK	74.0	-13.7	2.40 V	153	57.0	3.3
6	5350.00	49.6 AV	54.0	-4.4	2.40 V	153	46.3	3.3
7	#10580.00	55.6 PK	68.2	-12.6	1.68 V	222	41.7	13.9
8	15870.00	52.6 PK	74.0	-21.4	2.95 V	248	38.5	14.1
9	15870.00	41.9 AV	54.0	-12.1	2.95 V	248	27.8	14.1

Remarks:

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

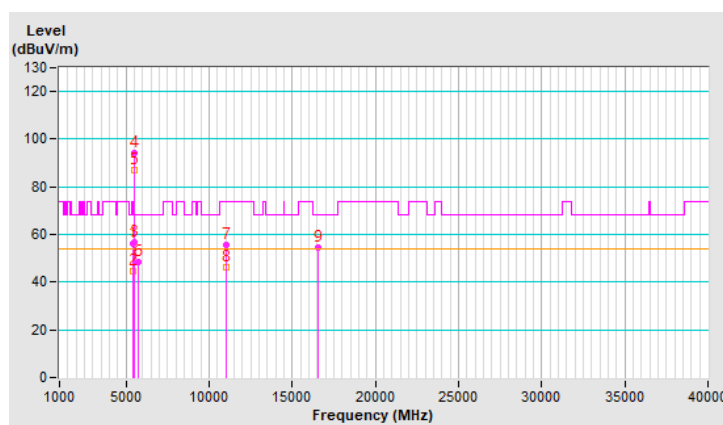


RF Mode	802.11ac (VHT80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 5.1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	1.76 H	210	52.8	3.5
2	5460.00	44.8 AV	54.0	-9.2	1.76 H	210	41.3	3.5
3	#5470.00	56.7 PK	68.2	-11.5	1.76 H	210	53.2	3.5
4	*5530.00	94.2 PK			1.76 H	210	90.6	3.6
5	*5530.00	86.9 AV			1.76 H	210	83.3	3.6
6	#5725.00	48.2 PK	68.2	-20.0	1.76 H	210	44.2	4.0
7	11060.00	55.6 PK	74.0	-18.4	1.85 H	167	41.2	14.4
8	11060.00	46.1 AV	54.0	-7.9	1.85 H	167	31.7	14.4
9	#16590.00	54.6 PK	68.2	-13.6	1.71 H	79	38.1	16.5

Remarks:

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

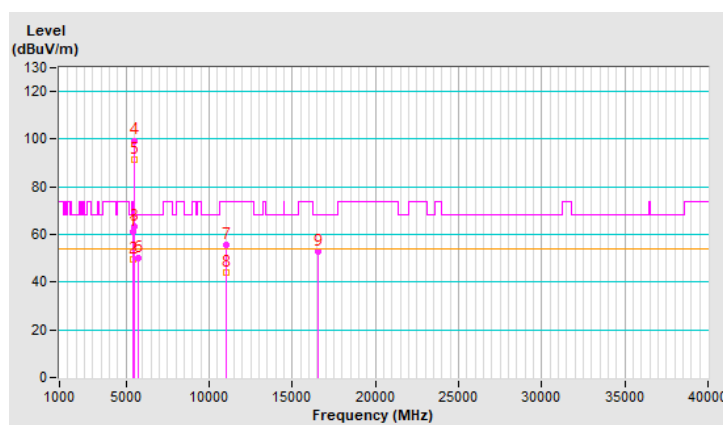


RF Mode	802.11ac (VHT80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 5.1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	60.9 PK	74.0	-13.1	2.60 V	175	57.4	3.5
2	5460.00	49.8 AV	54.0	-4.2	2.60 V	175	46.3	3.5
3	#5470.00	63.1 PK	68.2	-5.1	2.60 V	175	59.6	3.5
4	*5530.00	99.4 PK			2.60 V	175	95.8	3.6
5	*5530.00	91.5 AV			2.60 V	175	87.9	3.6
6	#5725.00	49.9 PK	68.2	-18.3	2.60 V	175	45.9	4.0
7	11060.00	55.5 PK	74.0	-18.5	1.61 V	216	41.1	14.4
8	11060.00	44.3 AV	54.0	-9.7	1.61 V	216	29.9	14.4
9	#16590.00	52.8 PK	68.2	-15.4	2.85 V	239	36.3	16.5

Remarks:

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

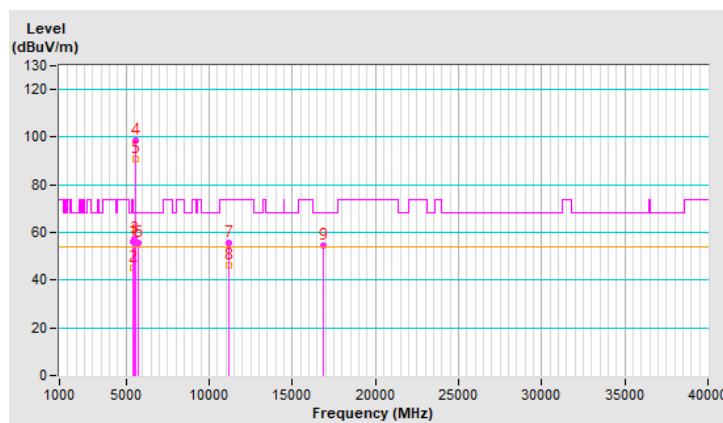


RF Mode	802.11ac (VHT80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 5.1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	5457.00	56.1 PK	74.0	-17.9	1.73 H	213	52.6	3.5
2	5457.00	45.4 AV	54.0	-8.6	1.73 H	213	41.9	3.5
3	#5468.00	57.4 PK	68.2	-10.8	1.73 H	213	53.9	3.5
4	*5610.00	98.7 PK			1.73 H	213	94.8	3.9
5	*5610.00	90.8 AV			1.73 H	213	86.9	3.9
6	#5725.00	55.5 PK	68.2	-12.7	1.73 H	213	51.5	4.0
7	11220.00	55.7 PK	74.0	-18.3	1.83 H	160	41.4	14.3
8	11220.00	46.1 AV	54.0	-7.9	1.83 H	160	31.8	14.3
9	#16830.00	54.7 PK	68.2	-13.5	1.67 H	79	37.3	17.4

Remarks:

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

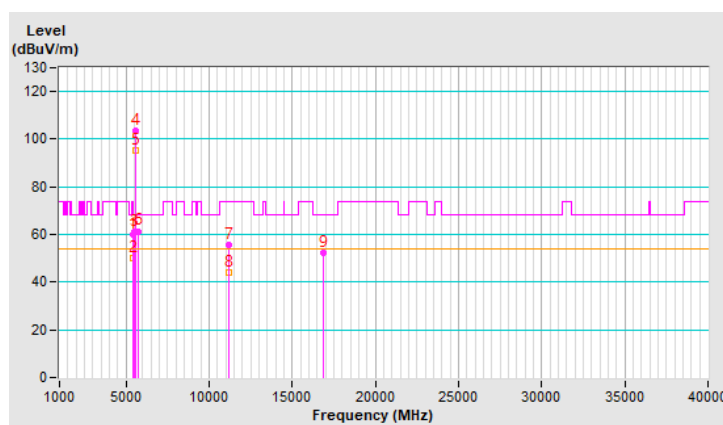


RF Mode	802.11ac (VHT80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 5.1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	5457.00	60.1 PK	74.0	-13.9	2.64 V	184	56.6	3.5
2	5457.00	49.9 AV	54.0	-4.1	2.64 V	184	46.4	3.5
3	#5468.00	61.0 PK	68.2	-7.2	2.64 V	184	57.5	3.5
4	*5610.00	103.5 PK			2.64 V	184	99.6	3.9
5	*5610.00	95.2 AV			2.64 V	184	91.3	3.9
6	#5725.00	61.4 PK	68.2	-6.8	2.64 V	184	57.4	4.0
7	11220.00	55.8 PK	74.0	-18.2	1.69 V	225	41.5	14.3
8	11220.00	44.3 AV	54.0	-9.7	1.69 V	225	30.0	14.3
9	#16830.00	52.3 PK	68.2	-15.9	2.93 V	222	34.9	17.4

Remarks:

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

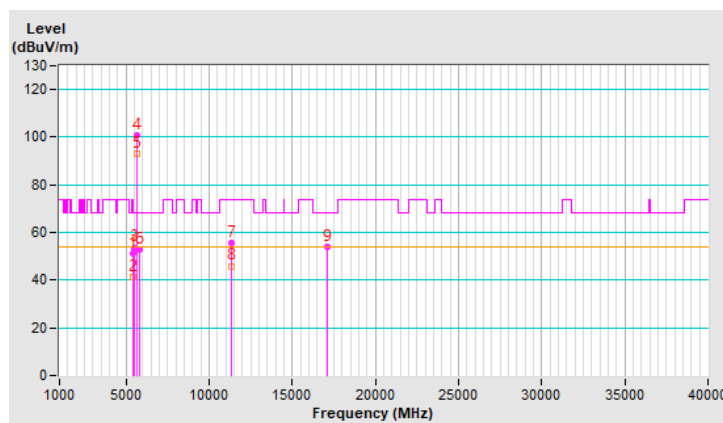


RF Mode	802.11ac (VHT80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 5.1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	51.2 PK	74.0	-22.8	1.72 H	214	47.7	3.5
2	5460.00	41.3 AV	54.0	-12.7	1.72 H	214	37.8	3.5
3	#5470.00	53.7 PK	68.2	-14.5	1.72 H	214	50.2	3.5
4	*5690.00	100.9 PK			1.72 H	214	97.0	3.9
5	*5690.00	93.0 AV			1.72 H	214	89.1	3.9
6	#5850.00	52.9 PK	68.2	-15.3	1.72 H	214	48.6	4.3
7	11380.00	55.7 PK	74.0	-18.3	1.86 H	163	40.8	14.9
8	11380.00	46.0 AV	54.0	-8.0	1.86 H	163	31.1	14.9
9	#17070.00	53.8 PK	68.2	-14.4	1.69 H	91	35.9	17.9

Remarks:

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

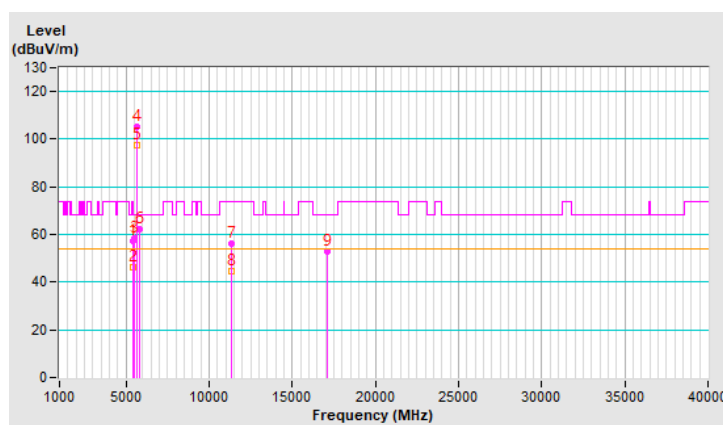


RF Mode	802.11ac (VHT80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 5.1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	57.5 PK	74.0	-16.5	2.58 V	192	54.0	3.5
2	5460.00	46.2 AV	54.0	-7.8	2.58 V	192	42.7	3.5
3	#5470.00	58.5 PK	68.2	-9.7	2.58 V	192	55.0	3.5
4	*5690.00	105.0 PK			2.58 V	192	101.1	3.9
5	*5690.00	97.7 AV			2.58 V	192	93.8	3.9
6	#5850.00	62.2 PK	68.2	-6.0	2.58 V	192	57.9	4.3
7	11380.00	56.0 PK	74.0	-18.0	1.66 V	216	41.1	14.9
8	11380.00	44.6 AV	54.0	-9.4	1.66 V	216	29.7	14.9
9	#17070.00	52.9 PK	68.2	-15.3	2.93 V	229	35.0	17.9

Remarks:

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

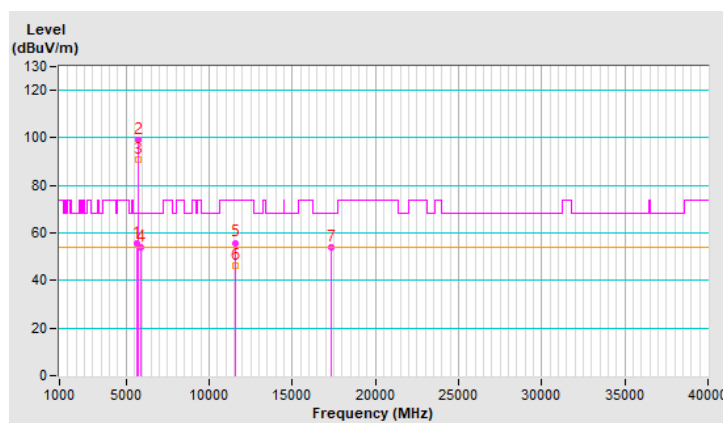


RF Mode	802.11ac (VHT80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 5.1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

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	55.6 PK	68.2	-12.6	1.75 H	221	51.7	3.9
2	*5775.00	99.3 PK			1.75 H	221	95.1	4.2
3	*5775.00	90.9 AV			1.75 H	221	86.7	4.2
4	#5925.00	54.0 PK	68.2	-14.2	1.75 H	221	49.4	4.6
5	11550.00	55.9 PK	74.0	-18.1	1.91 H	162	40.9	15.0
6	11550.00	46.3 AV	54.0	-7.7	1.91 H	162	31.3	15.0
7	#17325.00	54.2 PK	68.2	-14.0	1.72 H	77	35.1	19.1

Remarks:

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

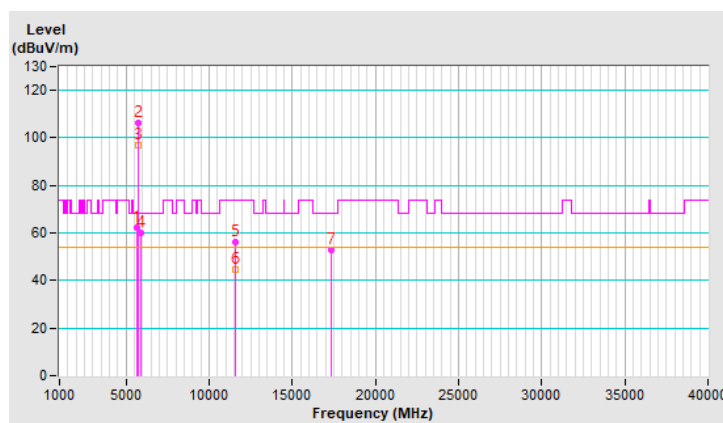


RF Mode	802.11ac (VHT80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 5.1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Nick Tsou		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5650.00	62.1 PK	68.2	-6.1	2.52 V	190	58.2	3.9
2	*5775.00	106.3 PK			2.52 V	190	102.1	4.2
3	*5775.00	96.9 AV			2.52 V	190	92.7	4.2
4	#5925.00	59.8 PK	68.2	-8.4	2.52 V	190	55.2	4.6
5	11550.00	56.0 PK	74.0	-18.0	1.61 V	211	41.0	15.0
6	11550.00	44.8 AV	54.0	-9.2	1.61 V	211	29.8	15.0
7	#17325.00	53.1 PK	68.2	-15.1	2.88 V	225	34.0	19.1

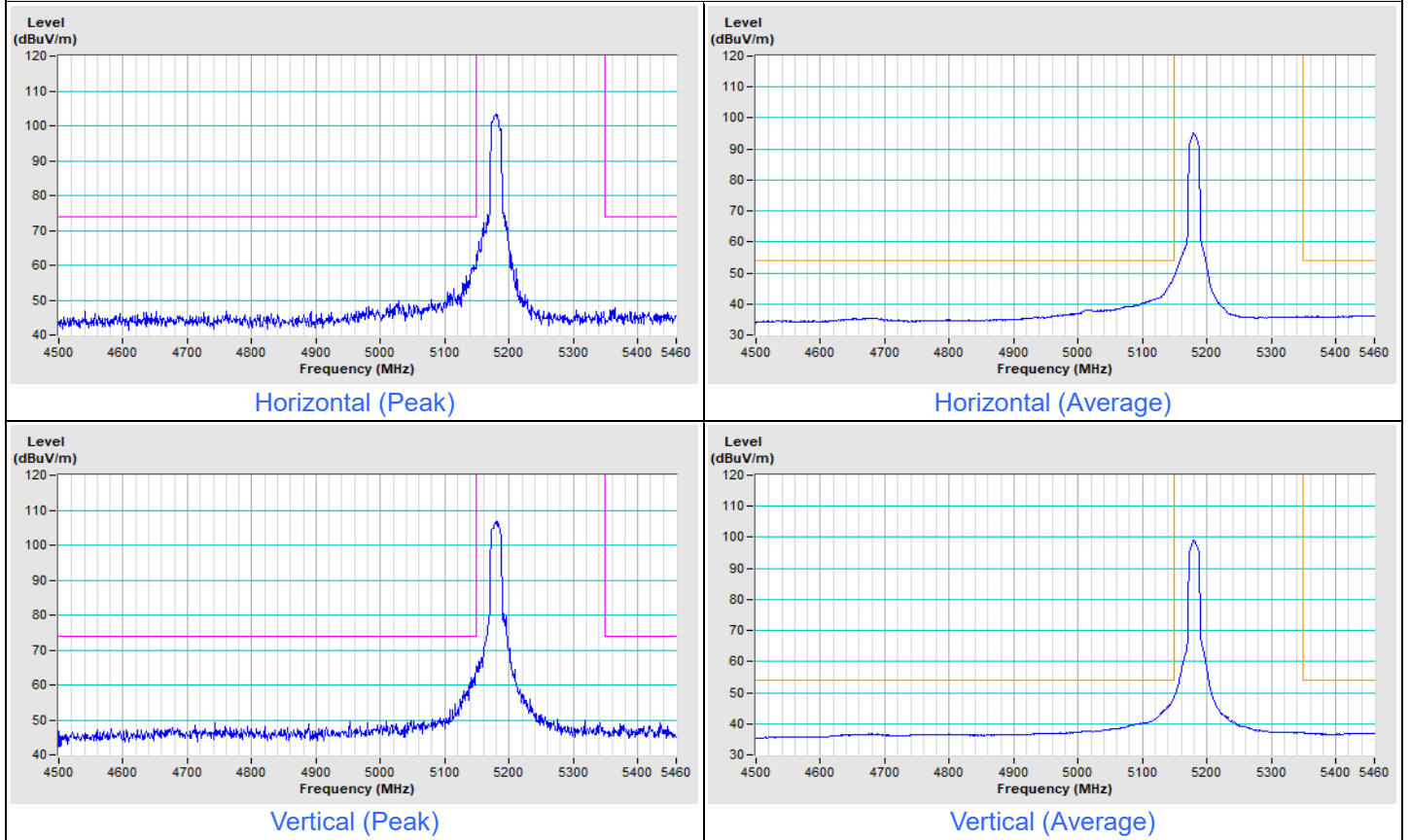
Remarks:

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

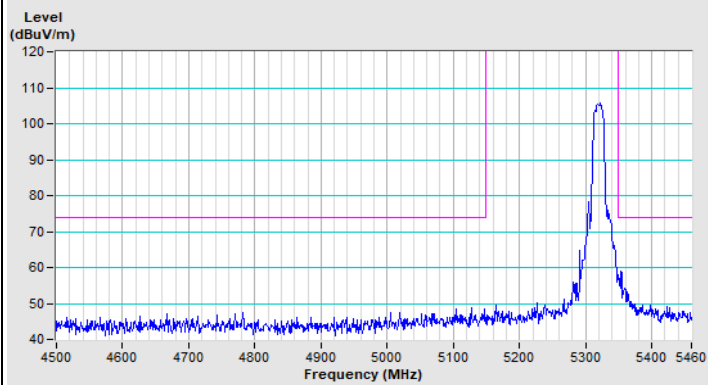


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
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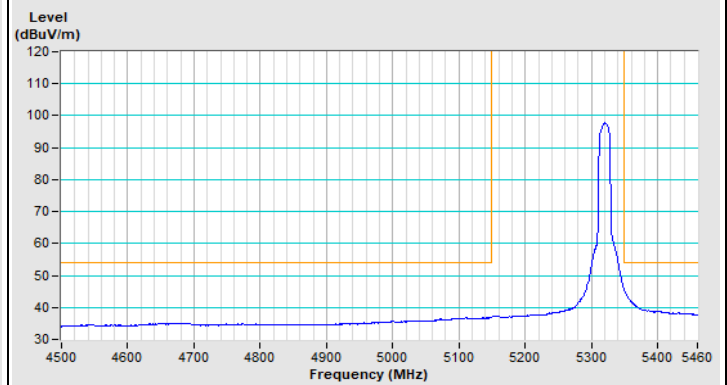
802.11a Channel 36



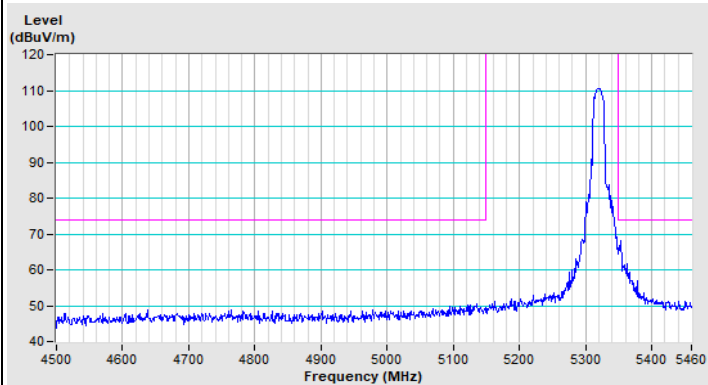
802.11a Channel 64



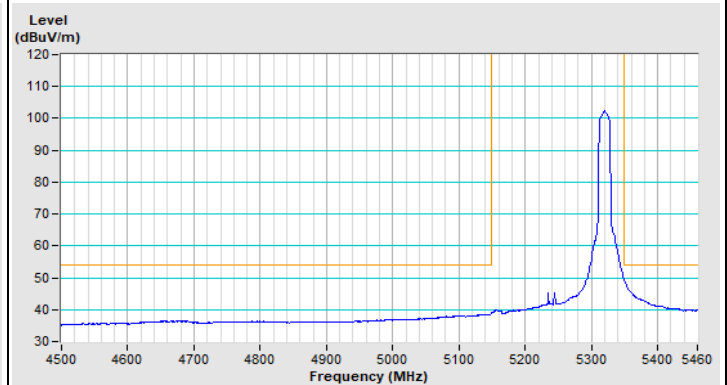
Horizontal (Peak)



Horizontal (Average)

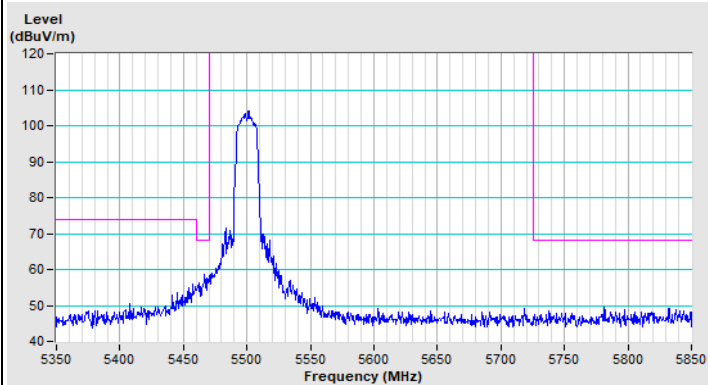


Vertical (Peak)

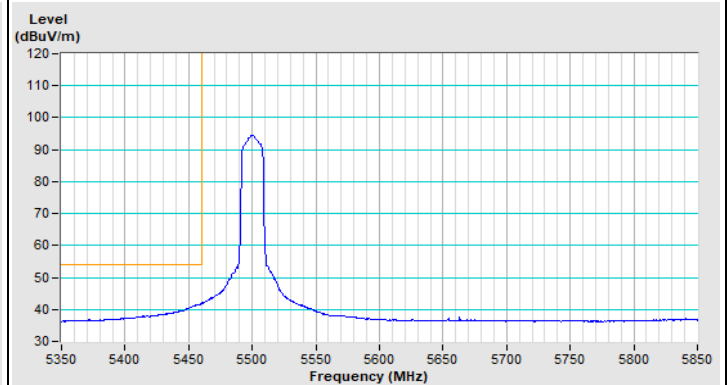


Vertical (Average)

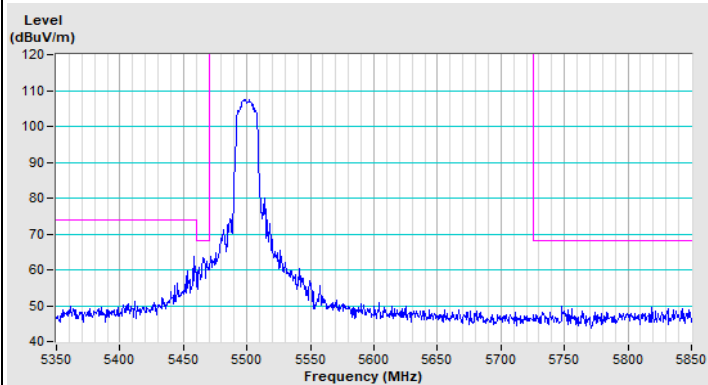
802.11a Channel 100



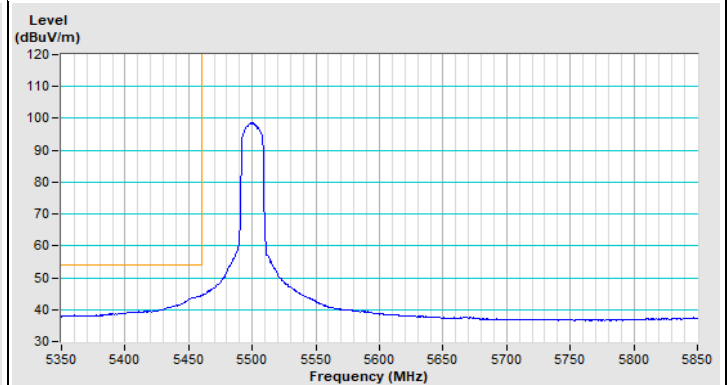
Horizontal (Peak)



Horizontal (Average)

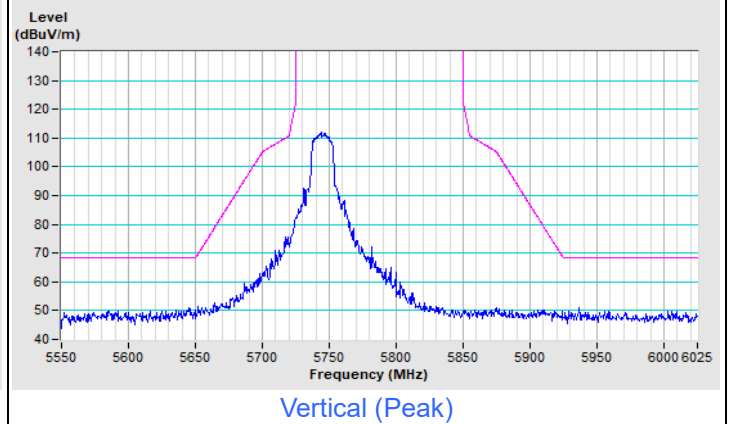
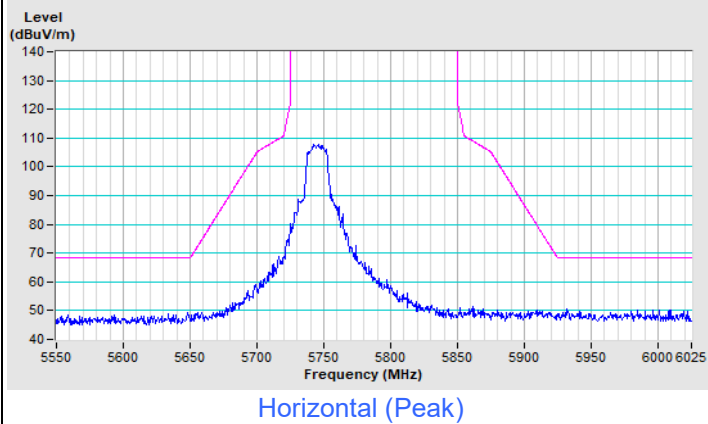


Vertical (Peak)

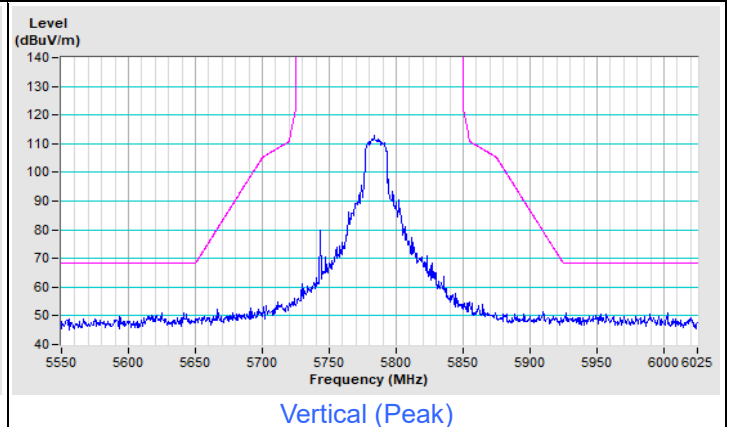
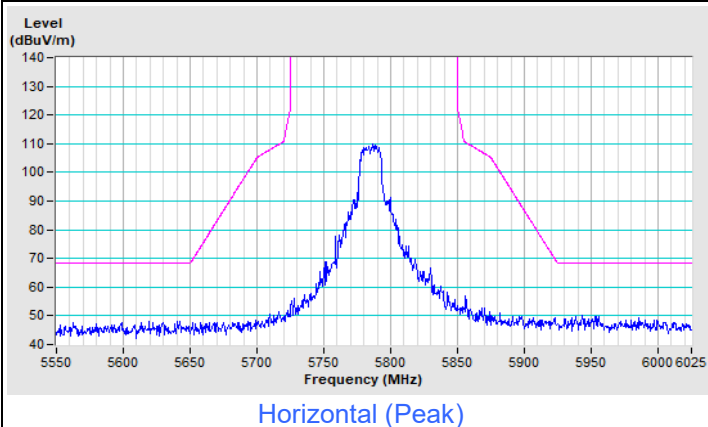


Vertical (Average)

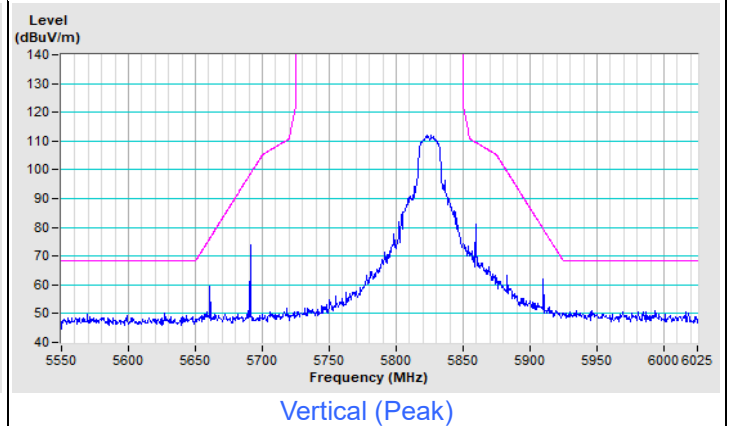
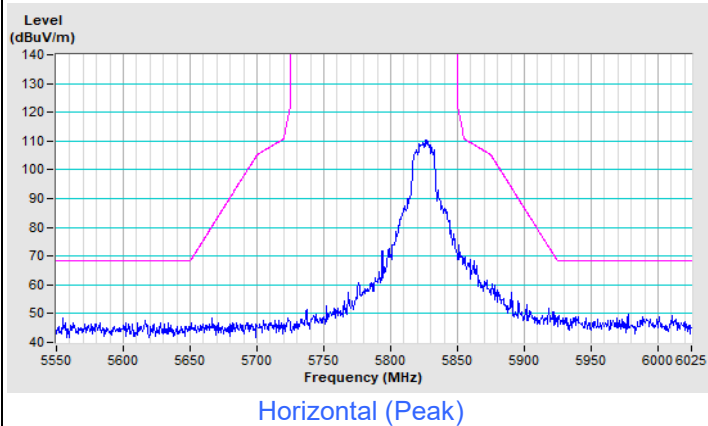
802.11a Channel 149



802.11a Channel 157

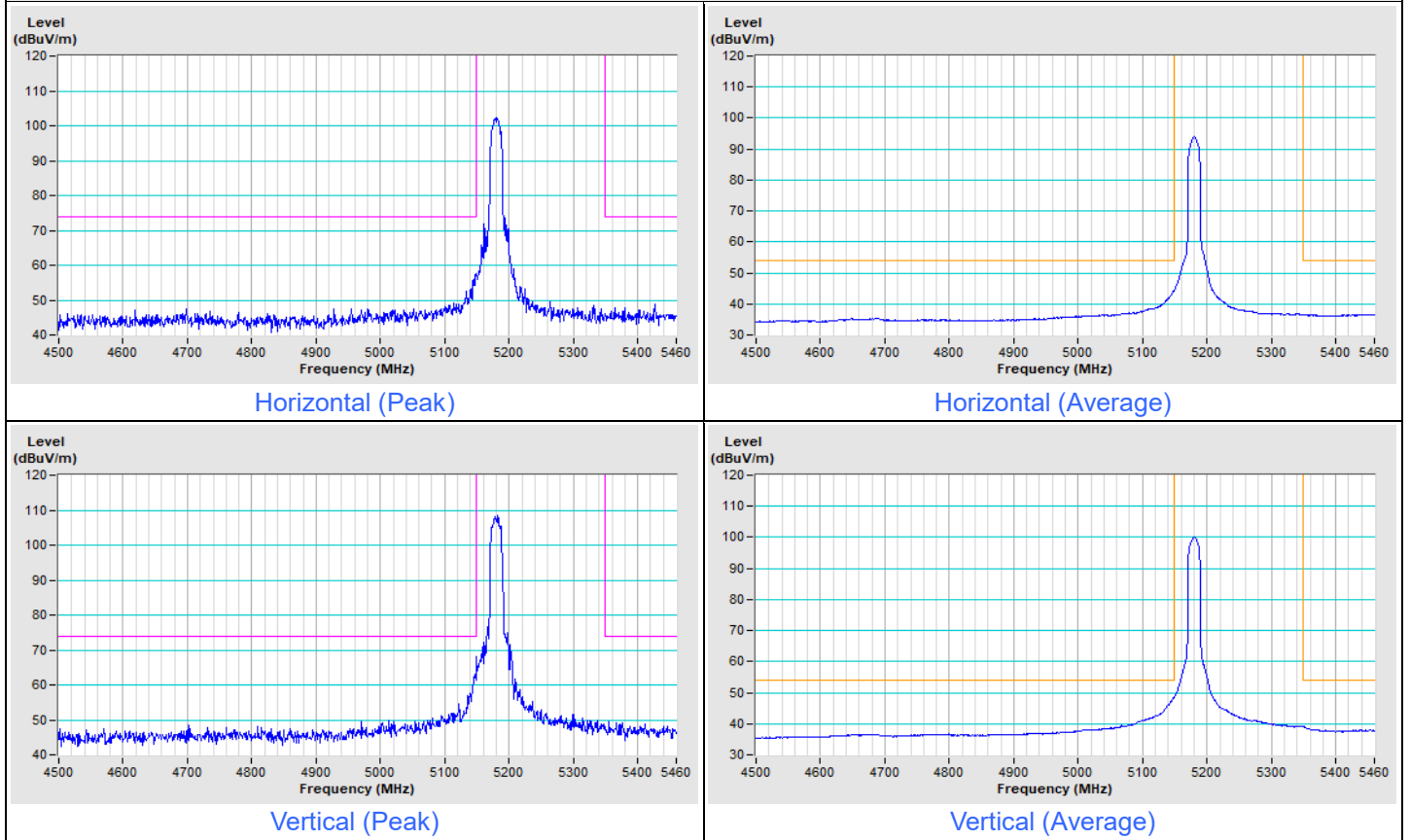


802.11a Channel 165

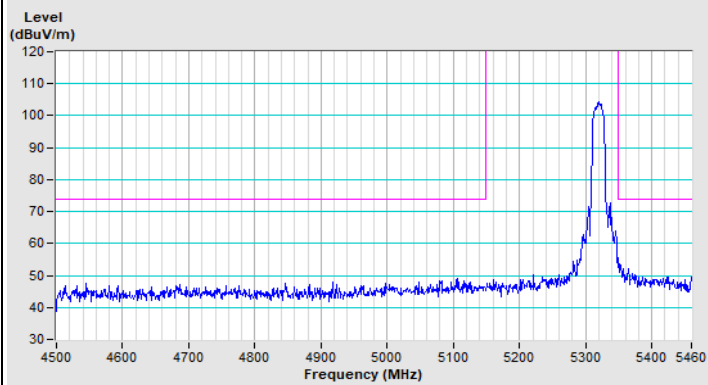


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
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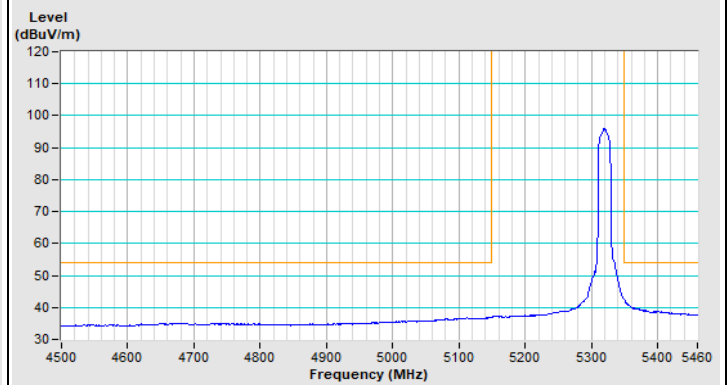
802.11ac (VHT20) Channel 36



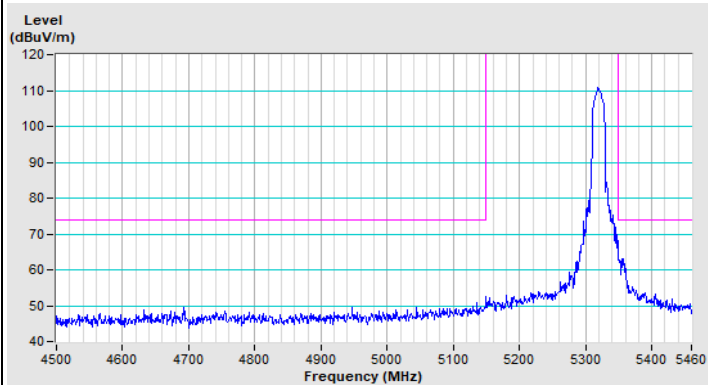
802.11ac (VHT20) Channel 64



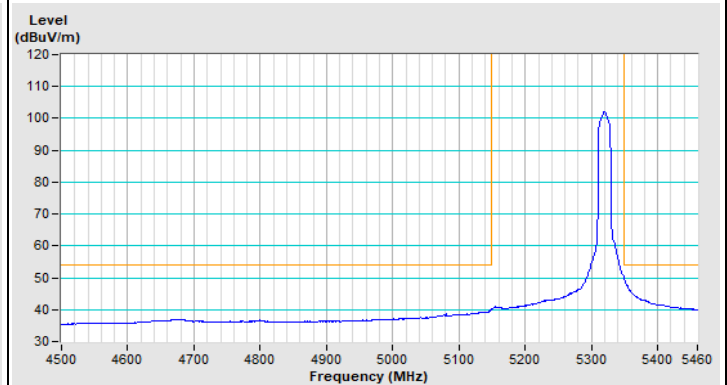
Horizontal (Peak)



Horizontal (Average)

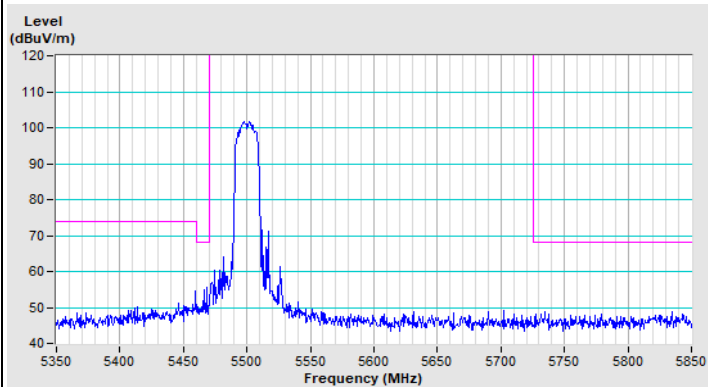


Vertical (Peak)

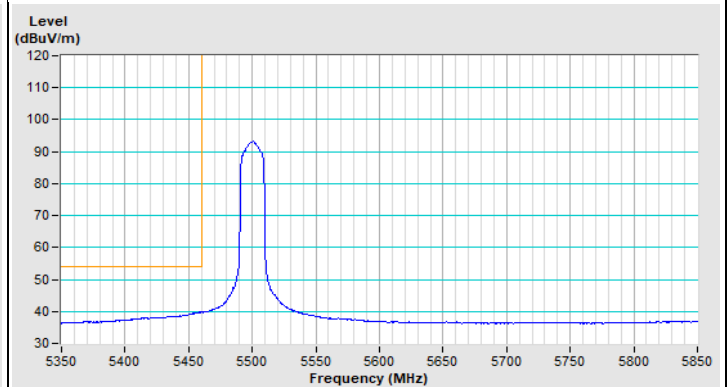


Vertical (Average)

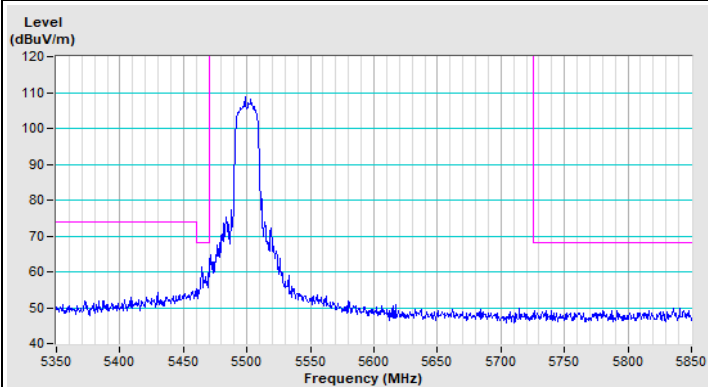
802.11ac (VHT20) Channel 100



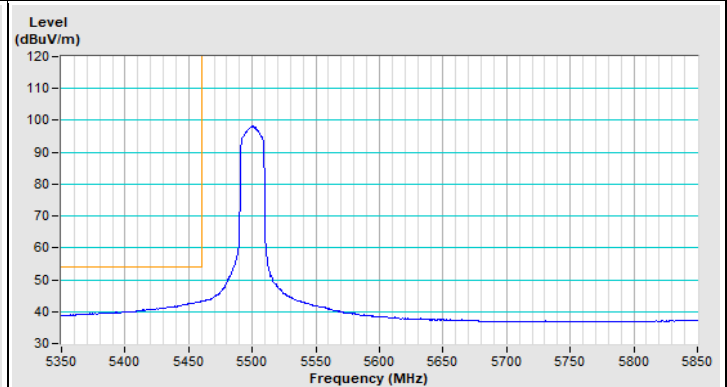
Horizontal (Peak)



Horizontal (Average)

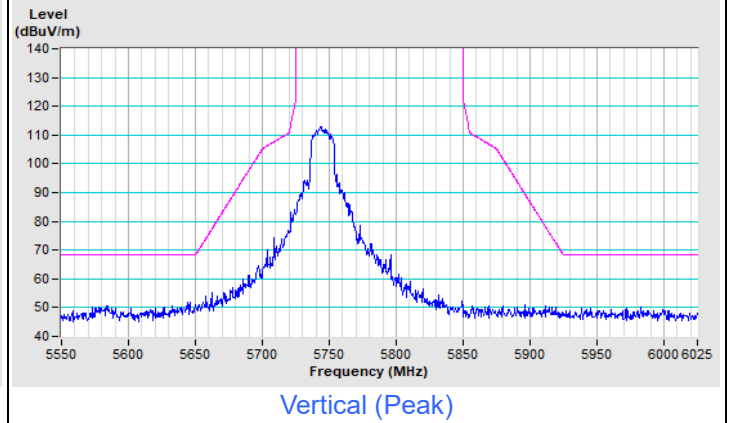
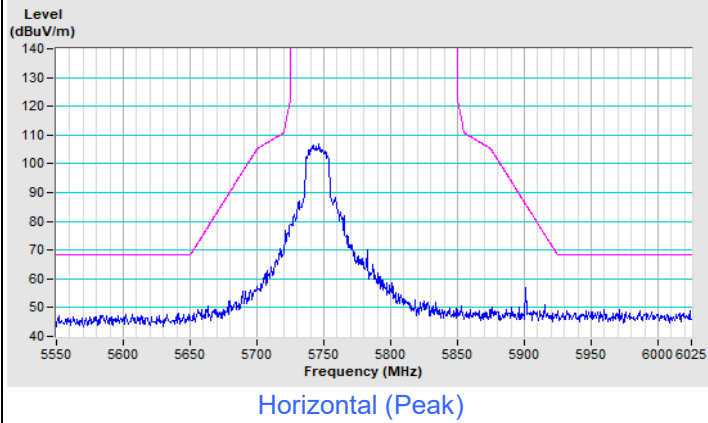


Vertical (Peak)

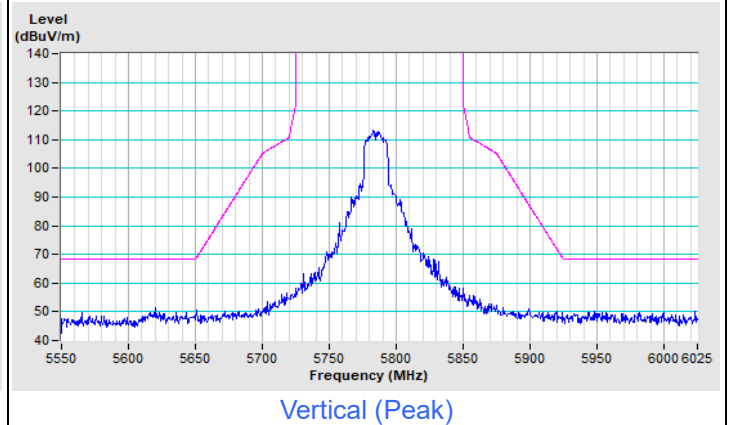
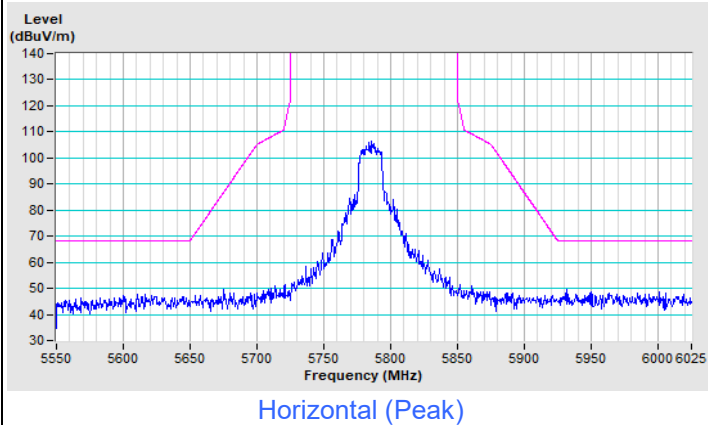


Vertical (Average)

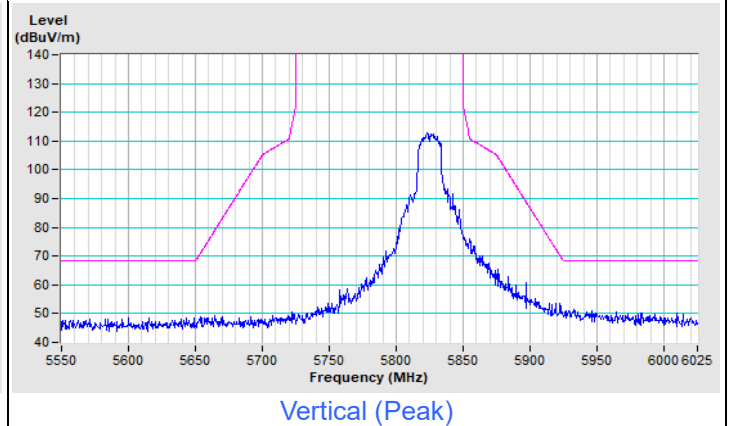
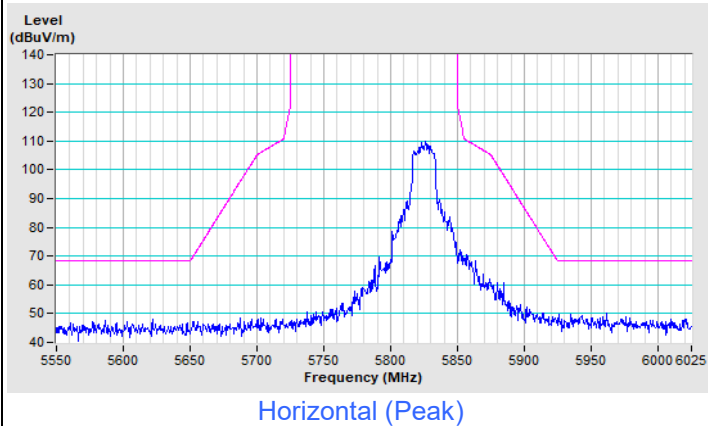
802.11ac (VHT20) Channel 149



802.11ac (VHT20) Channel 157

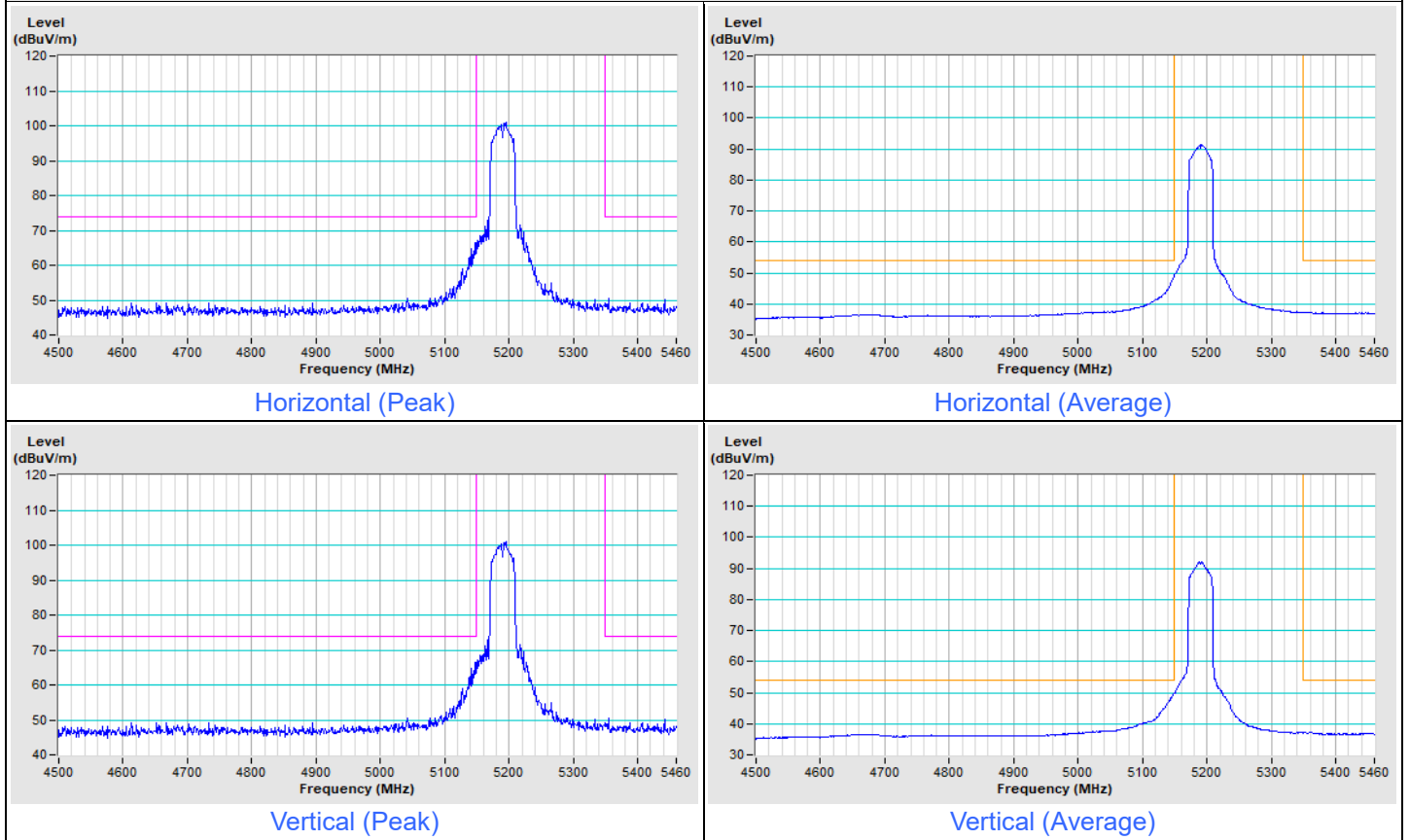


802.11ac (VHT20) Channel 165

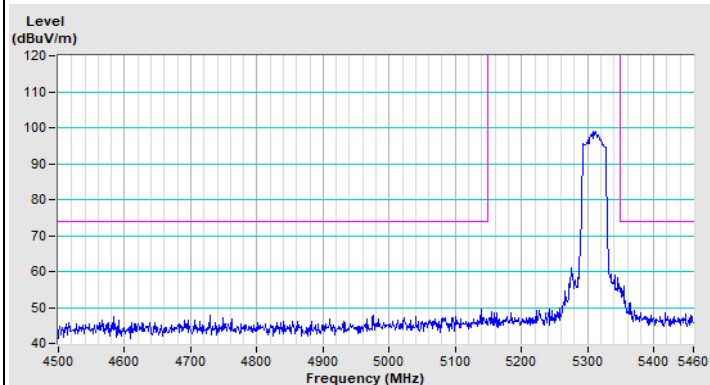


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 10 Hz
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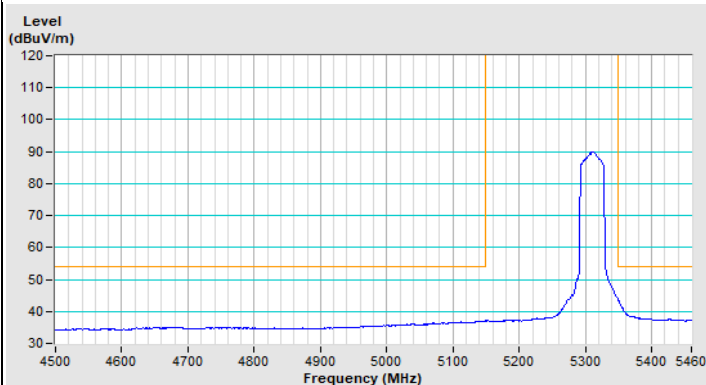
802.11ac (VHT40) Channel 38



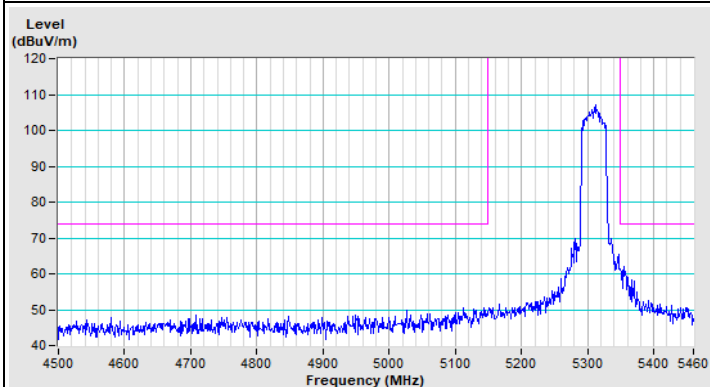
802.11ac (VHT40) Channel 62



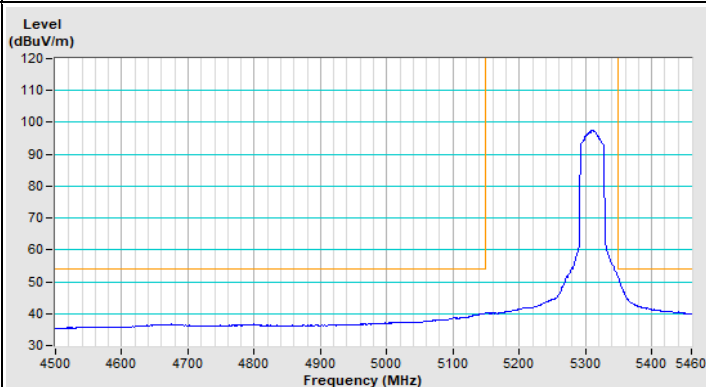
Horizontal (Peak)



Horizontal (Average)

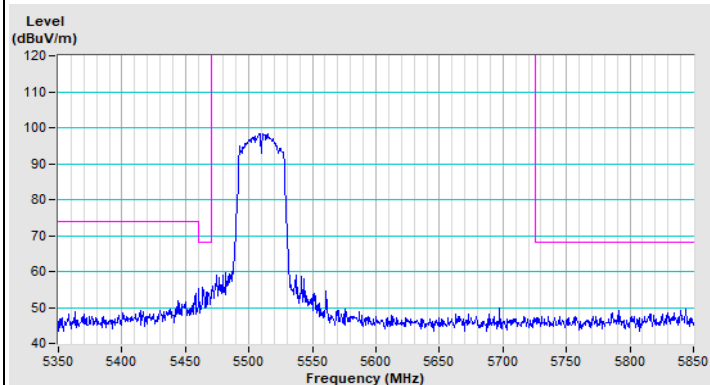


Vertical (Peak)

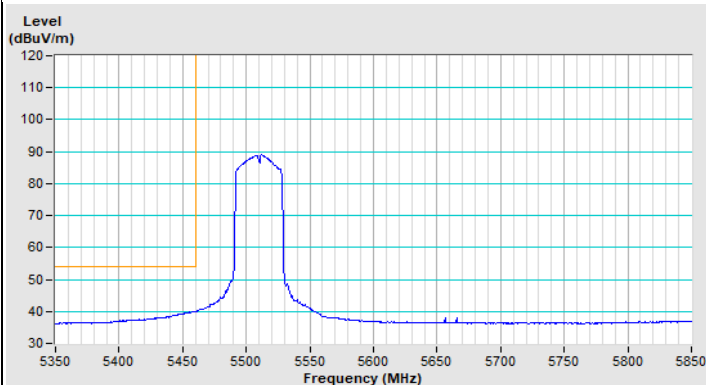


Vertical (Average)

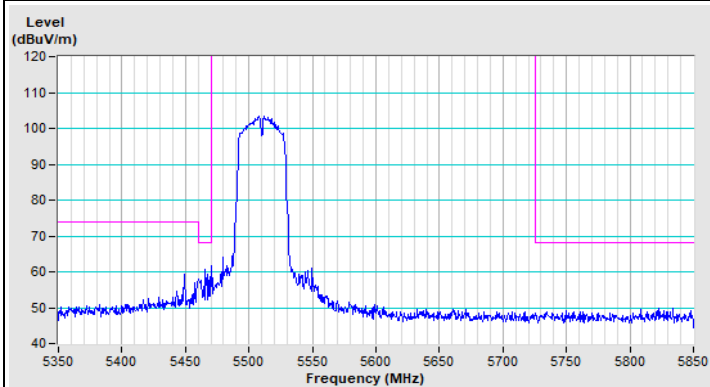
802.11ac (VHT40) Channel 102



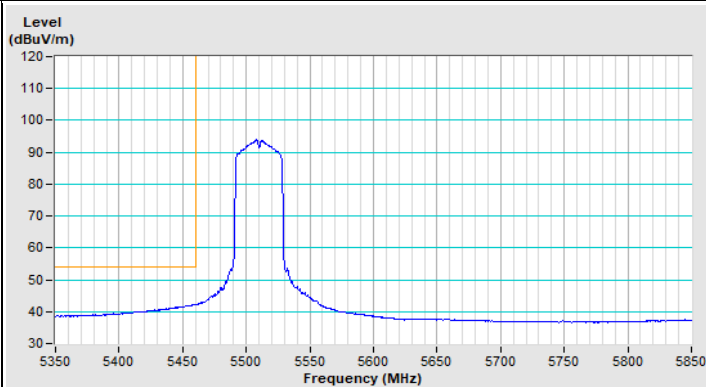
Horizontal (Peak)



Horizontal (Average)

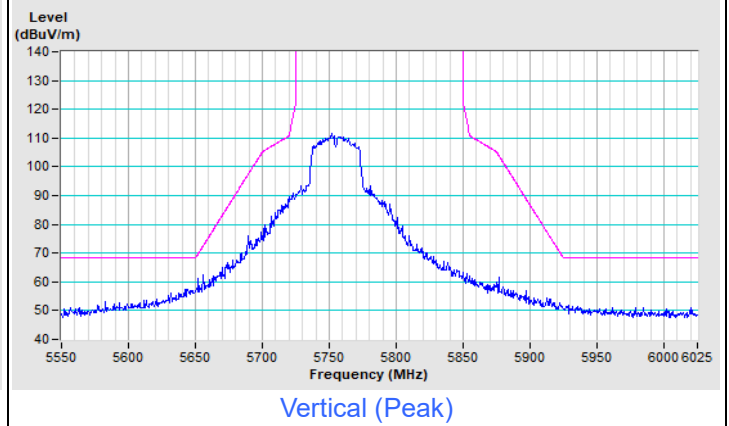
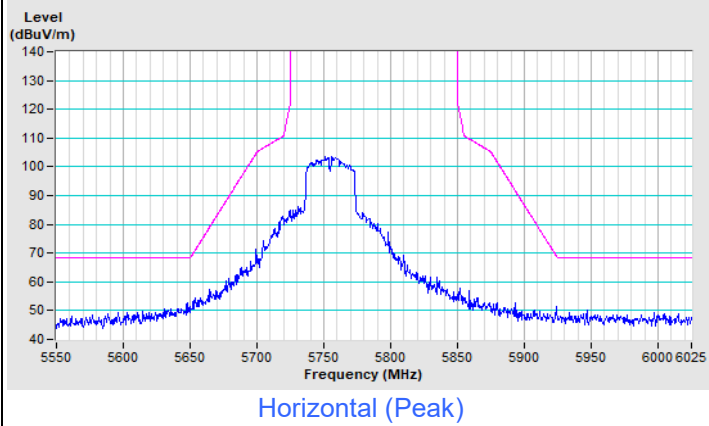


Vertical (Peak)

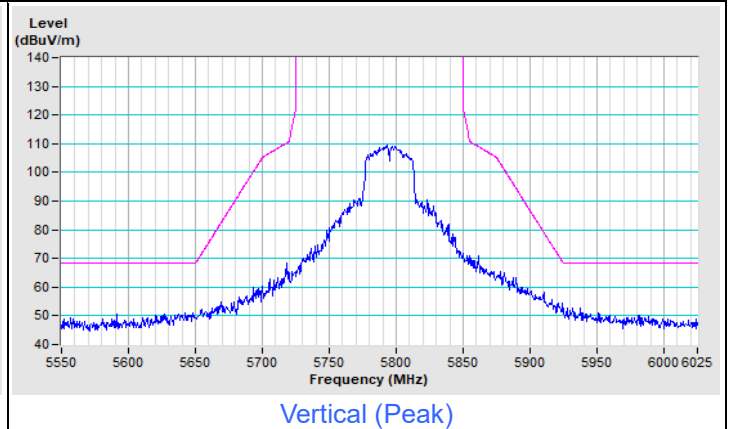
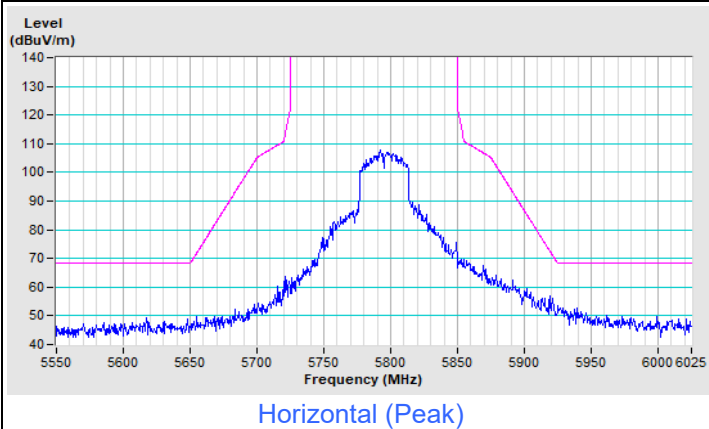


Vertical (Average)

802.11ac (VHT40) Channel 151

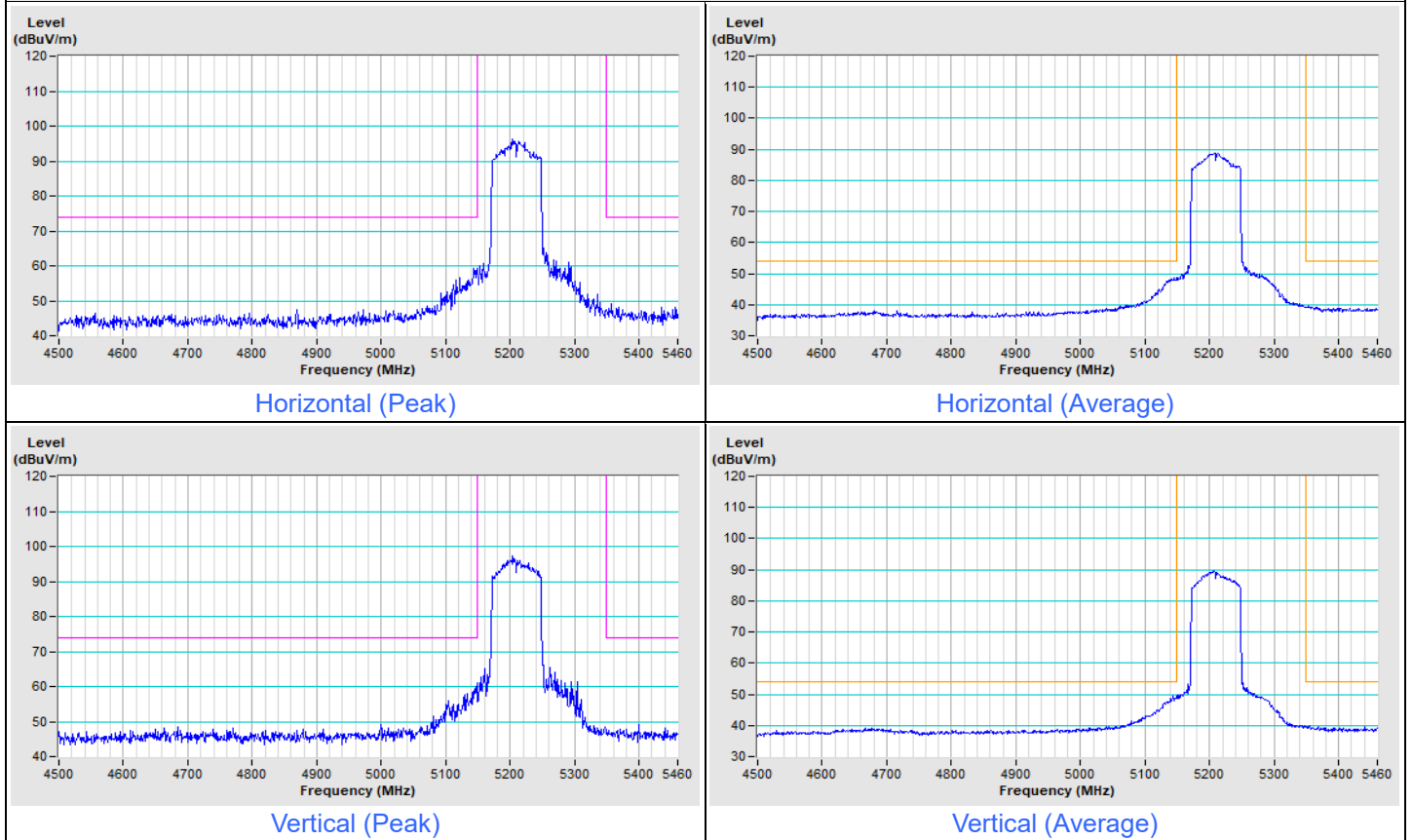


802.11ac (VHT40) Channel 159

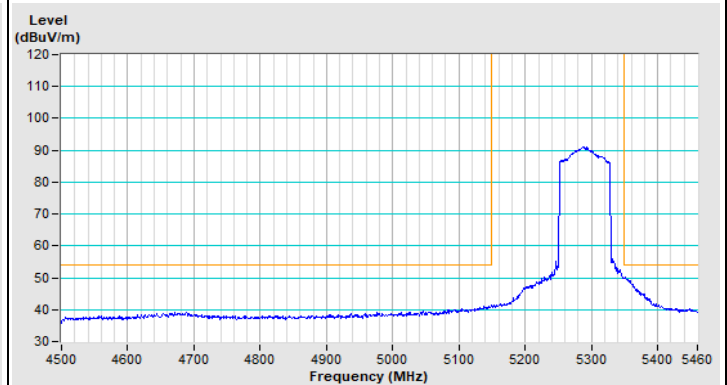
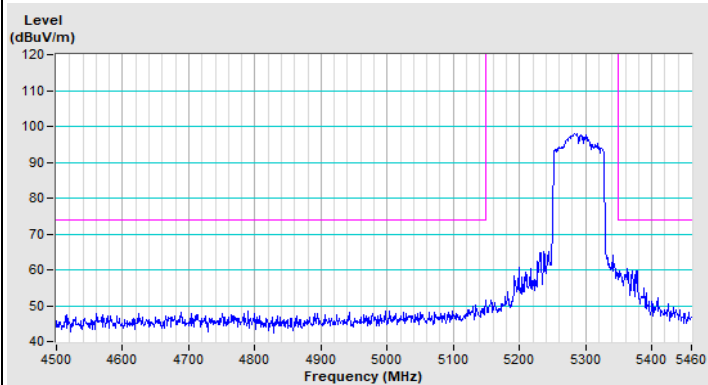
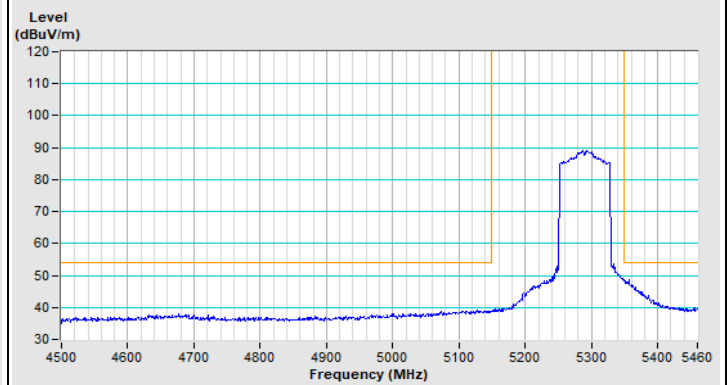
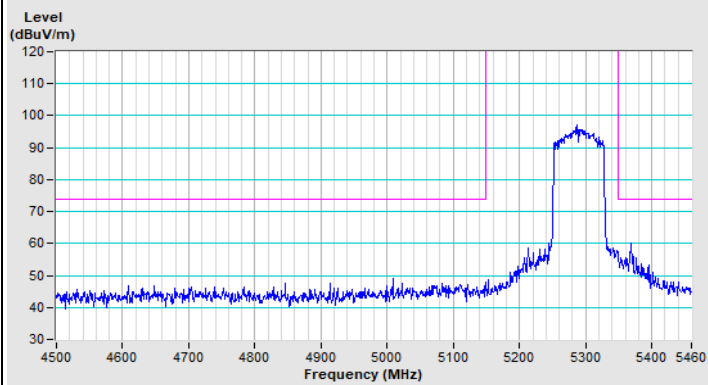


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	Peak (PK), RB = 1 MHz, VB = 3 MHz Peak (AV), RB = 1 MHz, VB = 5.1 kHz
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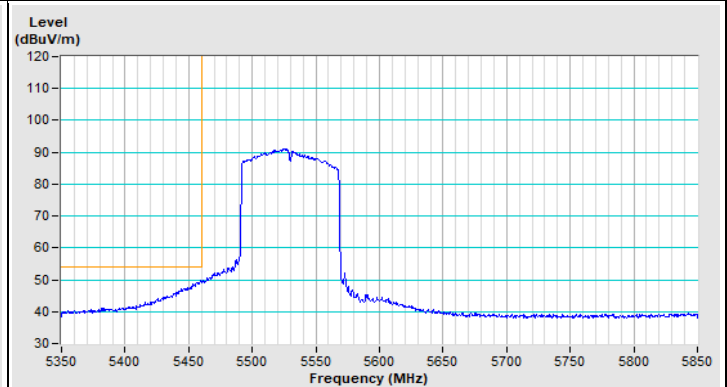
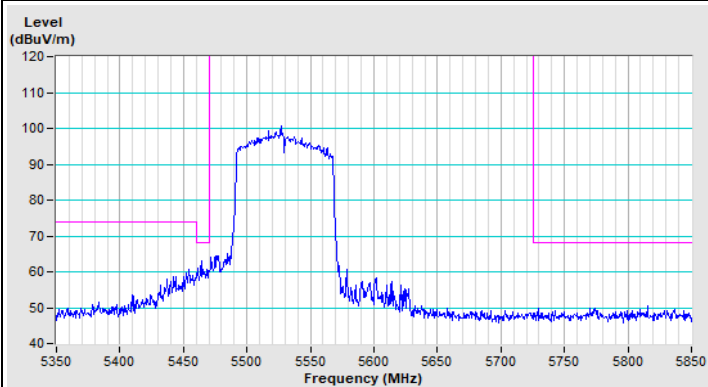
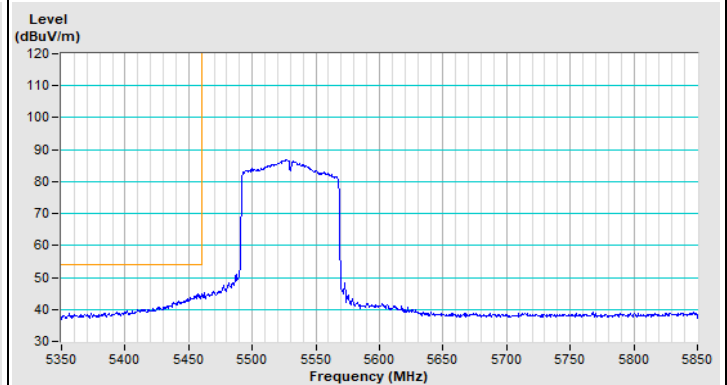
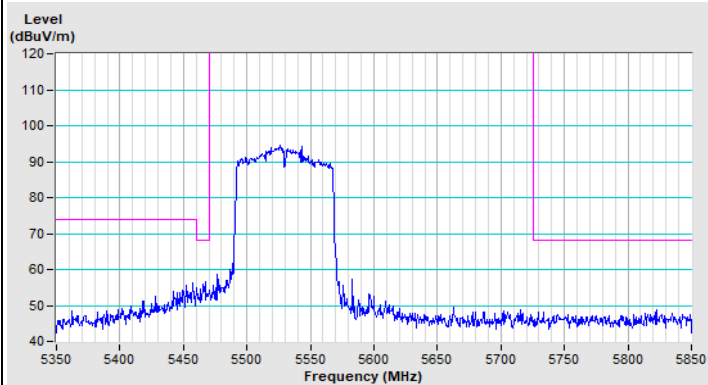
802.11ac (VHT80) Channel 42

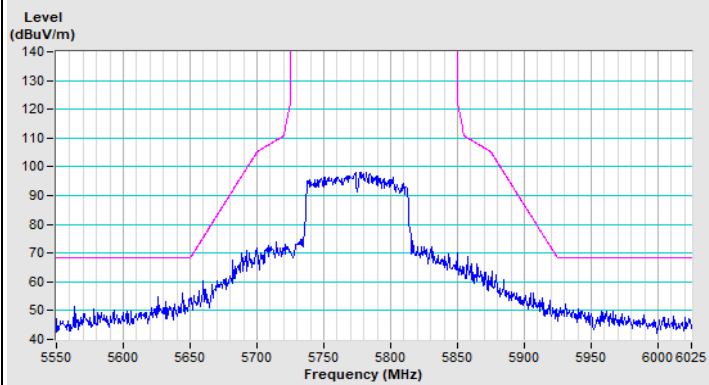


802.11ac (VHT80) Channel 58

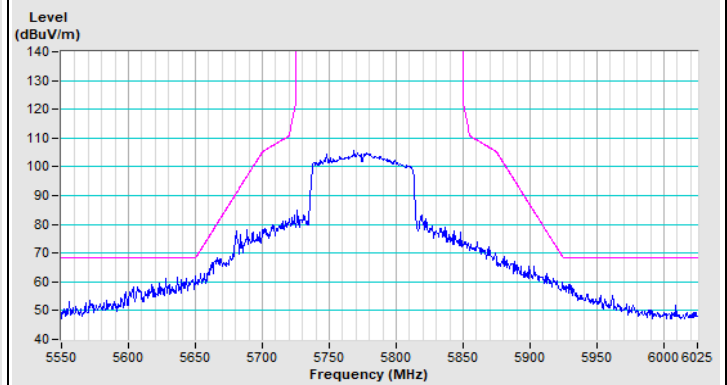


802.11ac (VHT80) Channel 106



802.11ac (VHT80) Channel 155

Horizontal (Peak)



Vertical (Peak)

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

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Web Site: <http://ee.bureauveritas.com.tw>

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

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