

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Report No.: RFB DHL-WTW-P20080205C-1
FCC ID: GZ5NVG578HLXV2
Model No.: NVG578HLX
Series Model: NVG568HLX
Received Date: 2022/5/6
Test Date: 2022/6/10 ~ 2022/8/3
Issued Date: 2022/8/23
Applicant: ARRIS
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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory
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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:** 2022/8/23
May Chen / Manager

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Prepared by : Vivian Hunag / 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	9
3.3 Channel List.....	11
3.4 Test Mode Applicability and Tested Channel Detail.....	13
3.5 Duty Cycle of Test Signal.....	16
3.6 Test Program Used and Operation Descriptions	17
3.7 Connection Diagram of EUT and Peripheral Devices	17
3.8 Configuration of Peripheral Devices and Cable Connections	18
4 Test Instruments	19
4.1 26 dB Bandwidth	19
4.2 RF Output Power.....	19
4.3 Power Spectral Density	19
4.4 6 dB Bandwidth	19
4.5 Occupied Bandwidth.....	19
4.6 Frequency Stability	20
4.7 AC Power Conducted Emissions	20
4.8 Unwanted Emissions below 1 GHz	21
4.9 Unwanted Emissions above 1 GHz.....	22
5 Limits of Test Items.....	24
5.1 26 dB Bandwidth	24
5.2 RF Output Power.....	24
5.3 Power Spectral Density	24
5.4 6 dB Bandwidth	24
5.5 Occupied Bandwidth.....	25
5.6 Frequency Stability	25
5.7 AC Power Conducted Emissions	25
5.8 Unwanted Emissions below 1 GHz	25
5.9 Unwanted Emissions above 1 GHz.....	26
6 Test Arrangements.....	27
6.1 26 dB Bandwidth	27
6.1.1 Test Setup	27
6.1.2 Test Procedure.....	27
6.2 RF Output Power.....	28
6.2.1 Test Setup	28
6.2.2 Test Procedure.....	28
6.3 Power Spectral Density	29
6.3.1 Test Setup	29
6.3.2 Test Procedure.....	29
6.4 6 dB Bandwidth	29
6.4.1 Test Setup	29
6.4.2 Test Procedure.....	29
6.5 Occupied Bandwidth.....	30
6.5.1 Test Setup	30
6.5.2 Test Procedure.....	30
6.6 Frequency Stability	30
6.6.1 Test Setup	30
6.6.2 Test Procedure.....	30
6.7 AC Power Conducted Emissions	31

6.7.1	Test Setup	31
6.7.2	Test Procedure	31
6.8	Unwanted Emissions below 1 GHz	32
6.8.1	Test Setup	32
6.8.2	Test Procedure	33
6.9	Unwanted Emissions above 1 GHz	34
6.9.1	Test Setup	34
6.9.2	Test Procedure	34
7	Test Results of Test Item	35
7.1	26 dB Bandwidth	35
7.2	RF Output Power	39
7.3	Power Spectral Density	59
7.4	6 dB Bandwidth	66
7.5	Occupied Bandwidth	68
7.6	Frequency Stability	77
7.7	AC Power Conducted Emissions	78
7.8	Unwanted Emissions below 1 GHz	80
7.9	Unwanted Emissions above 1 GHz	84
8	Pictures of Test Arrangements	186
9	Information of the Testing Laboratories	187

Release Control Record

Issue No.	Description	Date Issued
RFBDHL-WTW-P20080205C-1	Original release.	2022/8/23

1 Certificate

Product: 2.5G PON GATEWAY

Brand: ARRIS

Test Model: NVG578HLX

Series Model: NVG568HLX

Sample Status: Engineering sample

Applicant: ARRIS

Test Date: 2022/6/10 ~ 2022/8/3

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

Measurement procedure: ANSI C63.10-2013
KDB 789033 D02 General UNII Test Procedure New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output 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	-	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1/2/3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1/2/3)	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 -14.73 dB at 0.15794 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -3.8 dB at 50.02 MHz
15.407(b)(1/2/3/4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.3 dB at 5150.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is i-pex(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:

Measurement	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	5.4 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	2.5G PON GATEWAY
Brand	ARRIS
Test Model	NVG578HLX
Series Model	NVG568HLX
Status of EUT	Engineering sample
Power Supply Rating	12Vdc from power adapter
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 600 Mbps 802.11ac: up to 3466.7 Mbps 802.11ax: up to 4803.9 Mbps
Operating Frequency	5180 ~ 5250 MHz 5250 ~ 5320 MHz 5500 ~ 5720 MHz 5745 ~ 5825 MHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6 802.11ac (VHT160), 802.11ax (HE160): 2
Output Power	CDD Mode: 5180 ~ 5250 MHz : 867.64 mW (29.38 dBm) 5250 ~ 5320 MHz : 244.833 mW (23.89 dBm) 5500 ~ 5720 MHz : 237.82 mW (23.76 dBm) 5745 ~ 5825 MHz : 954.474 mW (29.8 dBm) Beamforming Mode: 5180 ~ 5250 MHz : 480.344 mW (26.82 dBm) 5250 ~ 5320 MHz : 189.385 mW (22.77 dBm) 5500 ~ 5720 MHz : 191.215 mW (22.82 dBm) 5745 ~ 5825 MHz : 412.219 mW (26.15 dBm)
EUT Category	Indoor Access Point

Note:

1. The EUT has two radios as following table:

Radio 1	Radio 2
WLAN 2.4GHz	WLAN 5GHz

2. Simultaneously transmission condition.

Condition	Technology	
1	WLAN 2.4GHz	WLAN 5GHz

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

3. The EUT uses following Heat sink:

No.	Brand	Material
1	Hesheng	AL6063 T5
2	Yingfan	AL6063 T5

4. The EUT has below model names, which are identical to each other in all aspects except for the following information:

Different	Model No. NVG578HLX	Model No. NVG568HLX
Feature	5G High power	5G High power
Target Market	NA	NA
Key IC	Main IC: BCM68360 LD: BCM68901 WIFI 2.4G: BCM6710 WIFI 5G : BCM6715X	Main IC: BCM68360 WIFI 2.4G: BCM6710 WIFI 5G : BCM6715X
2.5 G Phy	BCM54991EL	BCM54991EL
Slic	Microsemi Le9642	Microsemi Le9642
Flash	256MB	256MB
DDR	512MB	512MB
802.11ax 2.4G	3 x 3	3 x 3
802.11ax 5G	4 x 4	4 x 4
B+ BOSA with STIA SC/APC	yes	no
5G FEM	SKY85743-21	SKY85743-21
USB 3.0	1	1
VOIP port	2	2
LAN port	RJ45 with 1 LED 2.5G LAN x1 1G LAN x3	RJ45 with 1 LED 2.5G LAN x1 1G LAN x3
Power on/off button	yes	yes
WPS button	yes	yes
Reset button	yes	yes
LEDs	Power, Broadband, WAN, WiFi, Voice	Power, Broadband, WAN, WiFi, Voice

From the above models, model: **NVG578HLX** was selected as representative model for the test and its data was recorded in this report.

5. The EUT must be supplied with a power adapter as following table:

Brand	Model No.	Spec.
NetBit	NBS36J120300VU	Input: 100-120 Vac, 1 A, 50-60 Hz Output: 12 Vdc, 3 A DC Output cable: Unshielded, 2 m

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Ant. Set	RF Chain No.	Ant. Net Gain (dBi)	Freq. Range (GHz)	Ant. Type	Connector Type	Cable Length (mm)
0	5G Chain0	3.93	5.15~5.25	PIFA	RF switch	on-board no cable
		3.45	5.25~5.35			
		4.15	5.47~5.725			
		4.33	5.725~5.85			
1	5G Chain1 / 2.4G Chain 2	4.69	2.4~2.4835	PIFA	RF switch	on-board no cable
		2.77	5.15~5.25			
		3.33	5.25~5.35			
		4.33	5.47~5.725			
2	5G Chain2 / 2.4G Chain 1	4.54	5.725~5.85	Dipole	i-pex(MHF)	200
		2.27	2.4~2.4835			
		2.65	5.15~5.25			
		2.86	5.25~5.35			
3	5G Chain3 / 2.4G Chain 0	3.12	5.47~5.725	Dipole	i-pex(MHF)	200
		3.12	5.725~5.85			
		3.36	2.4~2.4835			
		2.83	5.15~5.25			
		2.77	5.25~5.35	Dipole	i-pex(MHF)	200
		2.65	5.47~5.725			
		2.83	5.725~5.85			

The directional antenna gain, please refer to the following table:

Frequency Range (GHz)	Directional Antenna Gain (dBi) (Total Polarization)	Antenna Type	Antenna Connector
5.15 ~ 5.25	7.23	Ant. 0/1: PIFA Ant. 2/3: Dipole	Ant. 0/1: RF switch Ant. 2/3: i-pex(MHF)
5.25 ~ 5.35	6.98		
5.47 ~ 5.725	7.09		
5.725 ~ 5.85	6.99		

Note: More detailed information, please refer to antenna specification.

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

2. The EUT incorporates a MIMO function:

5GHz Band		
MODULATION MODE	TX & RX CONFIGURATION	
802.11a	4TX	4RX
802.11n (HT20)	4TX	4RX
802.11n (HT40)	4TX	4RX
802.11ac (VHT20)	4TX	4RX
802.11ac (VHT40)	4TX	4RX
802.11ac (VHT80)	4TX	4RX
802.11ac (VHT160)	4TX	4RX
802.11ax (HE20)	4TX	4RX
802.11ax (HE40)	4TX	4RX
802.11ax (HE80)	4TX	4RX
802.11ax (HE160)	4TX	4RX

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz), 802.11ac mode for 20MHz (40MHz, 80MHz, 160MHz) and 802.11ax mode for 20MHz (40MHz, 80MHz, 160MHz), therefore the manufacturer will control the power for 802.11ac mode is the same as the 802.11ax mode or more lower than it and investigated worst case to representative mode in test report.

3.3 Channel List

FOR 5180 ~ 5320 MHz

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20) and 802.11ax (HE20):

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) and 802.11ax (HE40):

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

2 channels are provided for 802.11ac (VHT80) and 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

1 straddle channel is provided for 802.11ac (VHT160) and 802.11ax (HE160):

Channel	Frequency
50	5250 MHz

FOR 5500 ~ 5720 MHz

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20) and 802.11ax (HE20):

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) and 802.11ax (HE40):

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) and 802.11ax (HE80):

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

1 channel is provided for 802.11ac (VHT160), 802.11ax (HE160):

Channel	Frequency
114	5570 MHz

FOR 5745 ~ 5825 MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20) and 802.11ax (HE20):

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) and 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80) and 802.11ax (HE80):

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Worst Case:	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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Note: Partial RU(resource unit) configurations not supported.

Following channel(s) was (were) selected for the final test as listed below:

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	A	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
RF Output Power	A	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ac (VHT20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ac (VHT40)	CDD & Beamforming	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ac (VHT80)	CDD & Beamforming	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ac (VHT160)	CDD & Beamforming	50, 114	BPSK	MCS0

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
		802.11ax (HE20)	CDD & Beamforming	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD & Beamforming	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD & Beamforming	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD & Beamforming	50, 114	BPSK	MCS0
6 dB Bandwidth	A	802.11a	CDD	144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	138, 155	BPSK	MCS0
Power Spectral Density / Occupied Bandwidth	A	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
Frequency Stability	A	802.11a	CDD	36	un-modulation	-
AC Power Conducted Emissions	A	802.11a	CDD	157	BPSK	6Mb/s
Unwanted Emissions below 1 GHz	A, B	802.11a	CDD	157	BPSK	6Mb/s

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Unwanted Emissions above 1 GHz	A	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
	B	802.11a	CDD	157	BPSK	6Mb/s
EUT Configure Mode:	A	Use a heatsink (manufacturer: Heli), and use an RF 5G IC (BCM6715X)				
	B	Use a heatsink (manufacturer: Yingfan) and use the RF 5G IC (BCM6715X)				

3.5 Duty Cycle of Test Signal

Duty cycle of test signal is $\geq 98\%$, duty factor is not required.
Duty cycle of test signal is $< 98\%$, duty factor shall be considered.

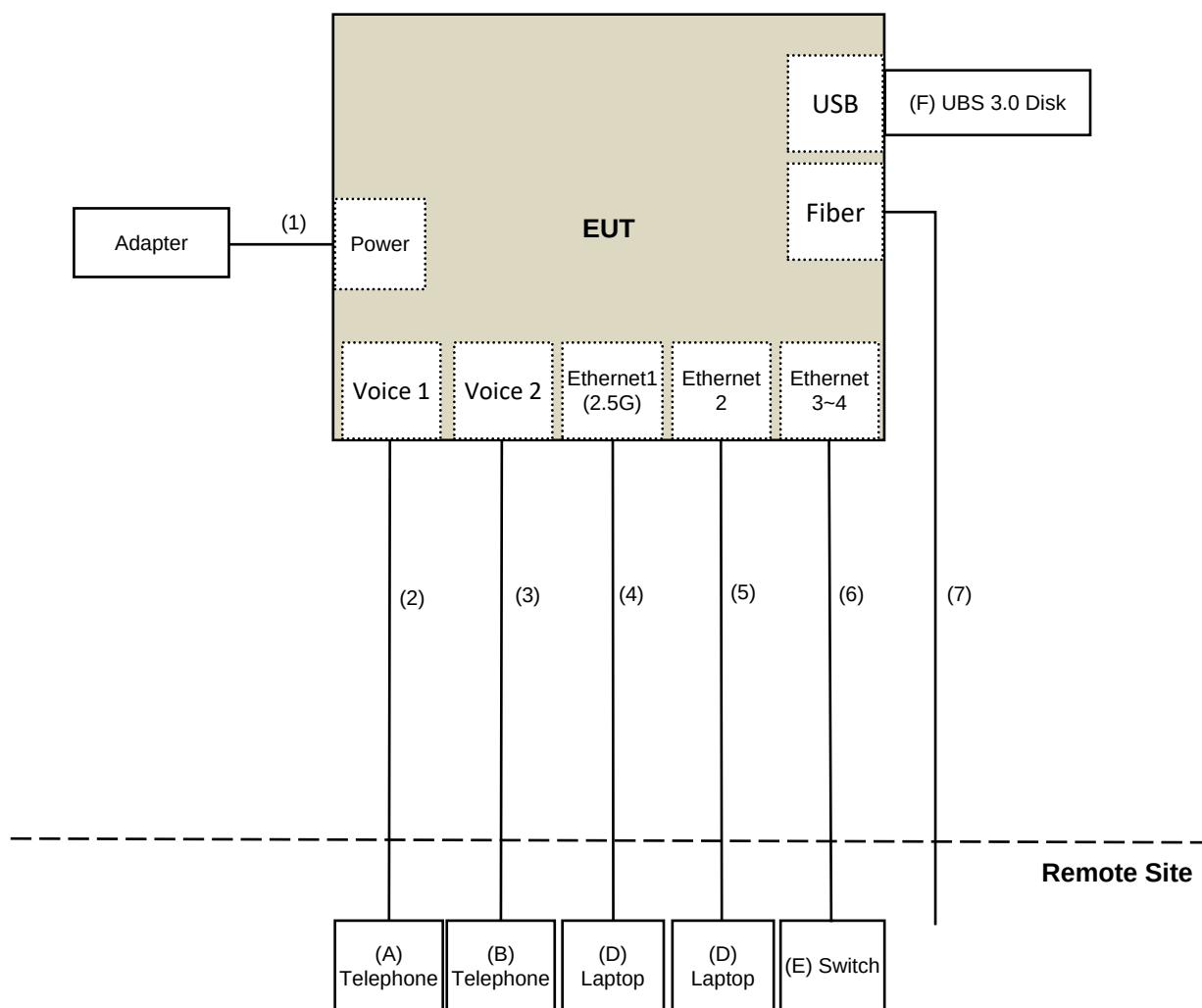
- 802.11a:** Duty cycle = $2.972 \text{ ms} / 3.018 \text{ ms} \times 100\% = 98.5\%$
802.11ax (HE20): Duty cycle = $3.309 \text{ ms} / 3.344 \text{ ms} \times 100\% = 99.0\%$
802.11ax (HE40): Duty cycle = $2.492 \text{ ms} / 2.531 \text{ ms} \times 100\% = 98.5\%$
802.11ax (HE80): Duty cycle = $2.464 \text{ ms} / 2.508 \text{ ms} \times 100\% = 98.2\%$
802.11ax (HE160): Duty cycle = $1.893 \text{ ms} / 1.929 \text{ ms} \times 100\% = 98.1\%$



3.6 Test Program Used and Operation Descriptions

Controlling software (accessMTool_REL_3_2_0_0) 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	Telephone	Romeo	TE-812	97285638	N/A	Provided by Lab
B	Telephone	Romeo	TE-812	97280903	N/A	Provided by Lab
C	Laptop	DELL	PP36S	25733582128	N/A	Provided by Lab
D	Laptop	DELL	E5430	HYV4VY1	DoC	Provided by Lab
E	Switch	D-Link	DGS-1005D	DR8WC92000523	N/A	Provided by Lab
F	UBS 3.0 Disk	Transcend	16GB JetFlash 700	F80093 0291	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	2	No	0	Supplied by applicant
2	RJ-11 Cable	1	10	No	0	Provided by Lab
3	RJ-11 Cable	1	10	No	0	Provided by Lab
4	RJ-45 Cable	1	10	No	0	Provided by Lab
5	RJ-45 Cable	1	10	No	0	Provided by Lab
6	RJ-45 Cable	2	10	No	0	Provided by Lab
7	Fiber Cable	1	10	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
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2022/4/5	2023/4/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	101516	2022/3/7	2023/3/6

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2022/8/3

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2022/4/5	2023/4/4
Power Meter Anritsu	ML2495A	1529002	2022/6/22	2023/6/21
Pulse Power Sensor Anritsu	MA2411B	1726434	2022/6/22	2023/6/21
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	101516	2022/3/7	2023/3/6

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2022/8/3

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
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2022/4/5	2023/4/4
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	101516	2022/3/7	2023/3/6
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	2022/1/14	2023/1/13
True RMS Clamp Meter Fluke	325	31130711WS	2022/6/9	2023/6/8

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2022/8/3

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohms Terminator	50	3	2021/10/27	2022/10/26
Fixed attenuator STI	STI02-2200-10	005	2021/8/27	2022/8/26
LISN R&S	ESH3-Z5	848773/004	2021/10/29	2022/10/28
RF Coaxial Cable JYEBO	5D-FB	COCCAB-001	2021/9/25	2022/9/24
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A
TEST RECEIVER R&S	ESCS 30	847124/029	2021/10/13	2022/10/12

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2022/7/30

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	2021/9/23	2022/9/22
LOOP ANTENNA Electro-Metrics	EM-6879	264	2022/3/18	2023/3/17
Pre_Amplifier Agilent	8447D	2944A10636	2022/3/19	2023/3/18
Pre_Amplifier Mini-Circuits	ZFL-1000VH2	QA0838008	2021/10/19	2022/10/18
RF Coaxial Cable COMMATE/PEWC	8D	966-3-2	2022/2/26	2023/2/25
		966-3-3	2022/2/26	2023/2/25
		966-4-1	2022/3/8	2023/3/7
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-001	2022/1/6	2023/1/5
		LOOPCAB-002	2022/1/6	2023/1/5
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Spectrum Analyzer KEYSIGHT	N9030B	MY57142938	2022/4/26	2023/4/25
Test Receiver KEYSIGHT	N9038A	MY59050100	2022/6/20	2023/6/19
Trilog Broadband Antenna Schwarzbeck	VULB 9168	9168-361	2021/10/26	2022/10/25

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2022/7/30

4.9 Unwanted Emissions above 1 GHz

For Mode A

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Horn Antenna Schwarzbeck	BBHA9120-D	9120D-406	2021/11/14	2022/11/13
	BBHA 9170	9170-739	2021/11/14	2022/11/13
MXE EMI Receiver(20 Hz to 44 GHz) Keysight	N9038A	MY54450088	2022/7/11	2023/7/10
Pre_Amplifier EMCI	EMC12630SE	980384	2022/1/10	2023/1/9
	EMC184045SE	980387	2022/1/10	2023/1/9
RF Cable EMCI	EMC104-SM-SM-6000	210201	2022/5/10	2023/5/9
RF Cable-Frequency range: 1- 40GHz EMCI	EMC102-KM-KM-1200	160924	2022/1/10	2023/1/9
RF Coaxial Cable EMCI	EMC104-SM-SM-1500	180504	2022/4/25	2023/4/24
	EMC104-SM-SM-2000	180502	2022/4/25	2023/4/24
	EMC-KM-KM-4000	200214	2022/3/8	2023/3/7
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Spectrum Analyzer KEYSIGHT	N9030B	MY57142938	2022/4/26	2023/4/25
Test Receiver KEYSIGHT	N9038A	MY59050100	2022/6/20	2023/6/19

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2022/7/26

For Mode B

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	N/A	N/A
Fix tool for Boresight antenna tower BV	FBA-01	FBA_SIP01	N/A	N/A
Horn Antenna Schwarzbeck	BBHA9120-D	9120D-406	2021/11/14	2022/11/13
	BBHA 9170	9170-739	2021/11/14	2022/11/13
MXE EMI Receiver(20 Hz to 44 GHz) Keysight	N9038A	MY54450088	2021/7/6	2022/7/5
Pre_Amplifier EMCI	EMC12630SE	980384	2022/1/10	2023/1/9
	EMC184045SE	980387	2022/1/10	2023/1/9
RF Cable EMCI	EMC104-SM-SM-6000	210201	2022/5/10	2023/5/9
RF Cable-Frequency range: 1- 40GHz EMCI	EMC102-KM-KM-1200	160924	2022/1/10	2023/1/9
RF Coaxial Cable EMCI	EMC104-SM-SM-1500	180504	2022/4/25	2023/4/24
	EMC104-SM-SM-2000	180502	2022/4/25	2023/4/24
	EMC-KM-KM-4000	200214	2022/3/8	2023/3/7
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Spectrum Analyzer KEYSIGHT	N9030B	MY57142938	2022/4/26	2023/4/25
Spectrum Analyzer Keysight	N9030A	MY54490679	2021/7/9	2022/7/8

Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2022/6/10

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

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

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

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

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

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

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)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
5150~5250 MHz	15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2 (dBμV/m) ^{*1} PK: 105.2 (dBμV/m) ^{*2} PK: 110.8 (dBμV/m) ^{*3} PK: 122.2 (dBμV/m) ^{*4}
^{*1} beyond 75 MHz or more above of the band edge. ^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.		^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. ^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

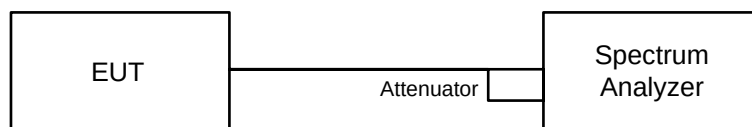
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

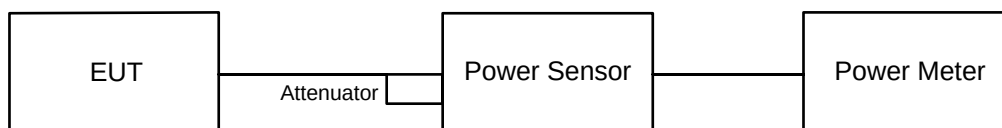


6.1.2 Test Procedure

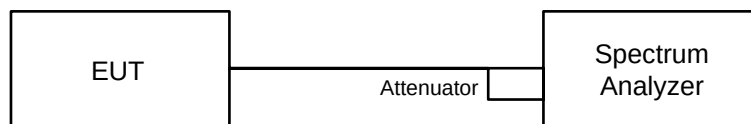
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement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

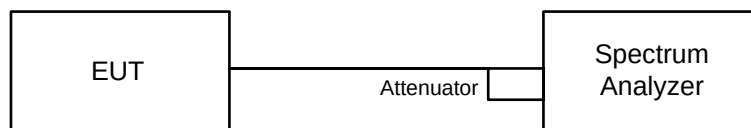
Method SA-1

- 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.

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

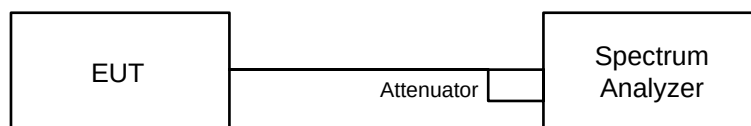
For specified measurement bandwidth 500 kHz:

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

6.4 6 dB Bandwidth

6.4.1 Test Setup

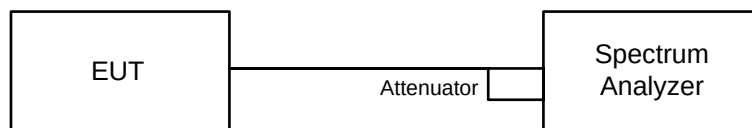


6.4.2 Test Procedure

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

6.5 Occupied Bandwidth

6.5.1 Test Setup

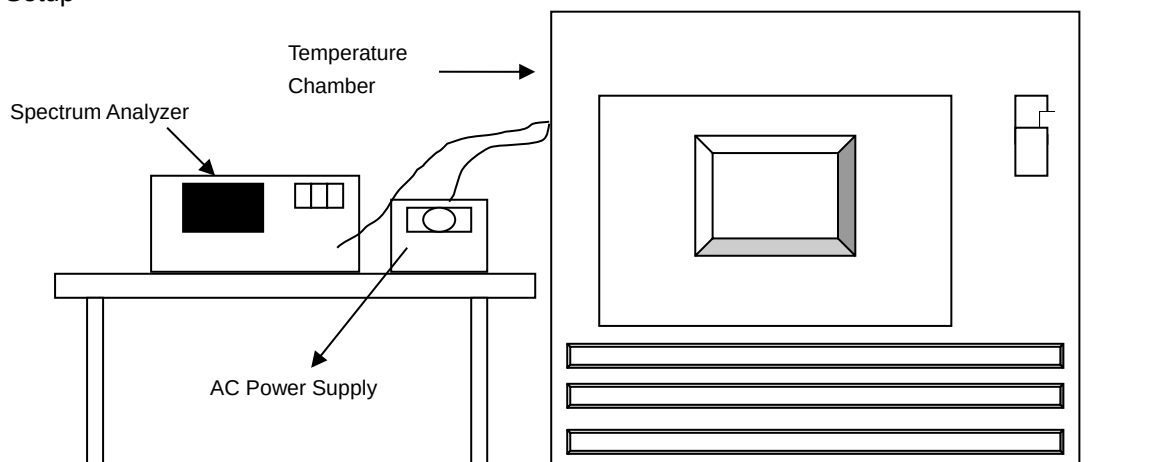


6.5.2 Test Procedure

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

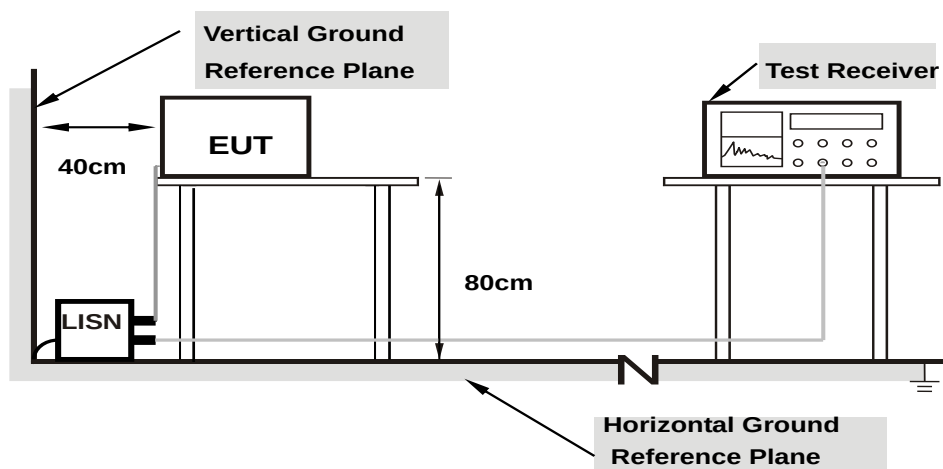


6.6.2 Test Procedure

- 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

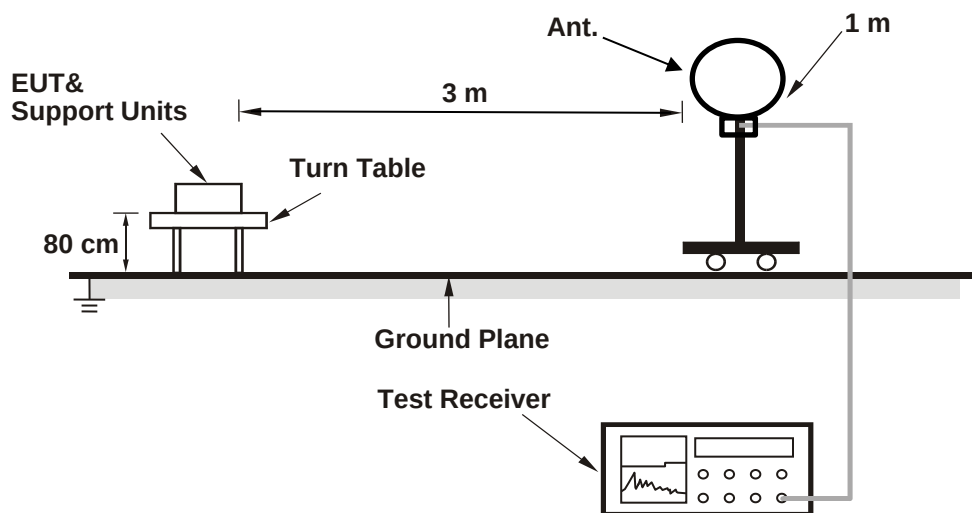
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The 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.

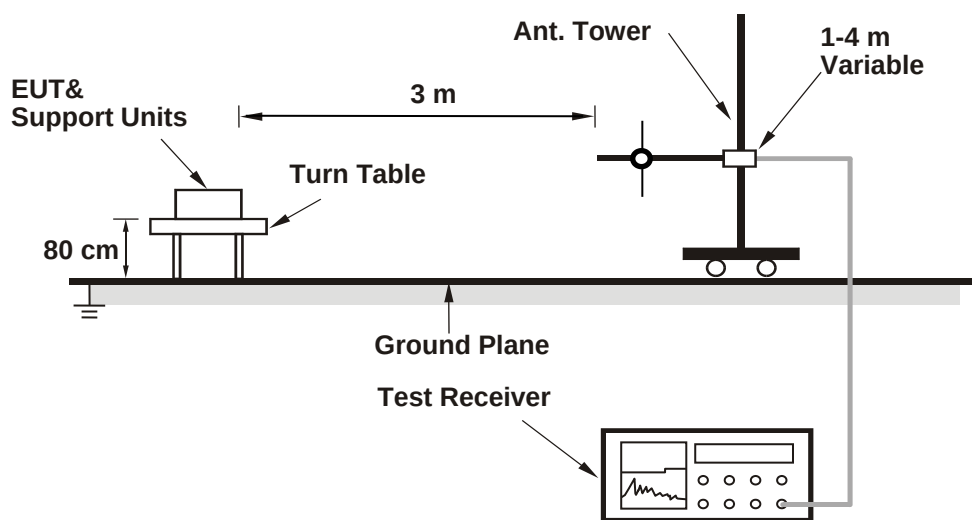
6.8 Unwanted Emissions below 1 GHz

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 detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

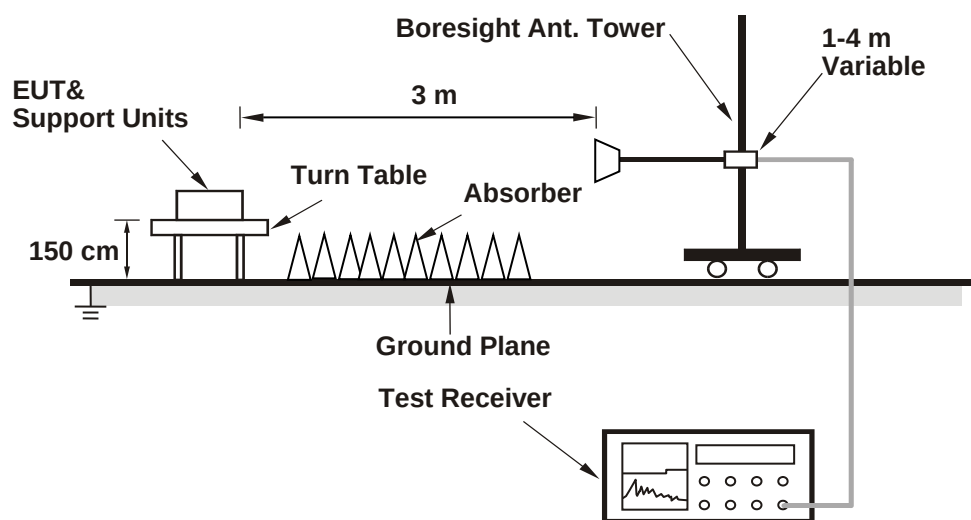
Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 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 Radiated emission above 1 GHz



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

Mode A

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)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	21.53	21.61	21.68	21.58
60	5300	21.48	21.80	21.65	21.56
64	5320	21.48	21.68	21.60	21.51
100	5500	21.55	21.81	21.73	21.43
116	5580	21.52	21.58	21.50	21.63
140	5700	21.42	21.69	21.63	21.37
144 (U-NII-2C)	5720	15.77	15.87	15.86	15.78

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	21.53	24.33 > 24
60	5300	21.48	24.32 > 24
64	5320	21.48	24.32 > 24
100	5500	21.43	24.31 > 24
116	5580	21.50	24.32 > 24
140	5700	21.37	24.29 > 24
144 (U-NII-2C)	5720	15.77	22.97 < 24

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

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	21.64	21.31	21.88	21.27
60	5300	21.55	21.52	21.97	21.41
64	5320	21.55	21.39	21.84	21.34
100	5500	21.55	21.41	21.97	21.35
116	5580	21.65	21.49	21.86	21.37
140	5700	21.53	21.78	21.91	21.33
144 (U-NII-2C)	5720	15.73	15.67	16.11	15.73

Determined Output Power Limit				
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)	
52	5260	21.27	24.27	> 24
60	5300	21.41	24.3	> 24
64	5320	21.34	24.29	> 24
100	5500	21.35	24.29	> 24
116	5580	21.37	24.29	> 24
140	5700	21.33	24.28	> 24
144 (U-NII-2C)	5720	15.67	22.95	< 24

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

802.11ax (HE40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
54	5270	40.77	40.88	40.72	40.86
62	5310	40.90	40.85	40.81	41.24
102	5510	41.05	40.79	40.78	41.03
110	5550	40.81	40.66	40.85	41.17
134	5670	40.68	40.70	40.79	40.87
142 (U-NII-2C)	5710	35.49	35.33	35.38	35.64

Determined Output Power Limit				
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)	
54	5270	40.72	27.09	> 24
62	5310	40.81	27.1	> 24
102	5510	40.78	27.1	> 24
110	5550	40.66	27.09	> 24
134	5670	40.68	27.09	> 24
142 (U-NII-2C)	5710	35.33	26.48	> 24

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

802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	81.64	81.43	81.77	81.98
106	5530	81.84	81.50	81.70	81.71
122	5610	81.57	81.52	81.95	81.48
138 (U-NII-2C)	5690	75.47	75.65	75.48	75.51

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	81.43	30.1 > 24
106	5530	81.50	30.11 > 24
122	5610	81.48	30.11 > 24
138 (U-NII-2C)	5690	75.47	29.77 > 24

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

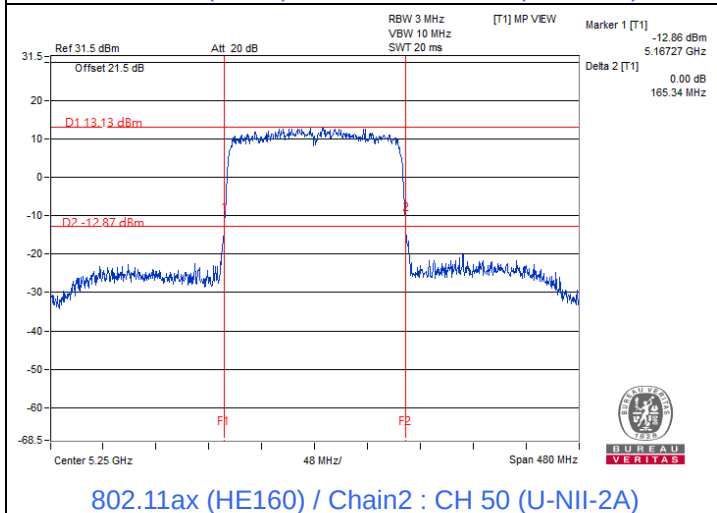
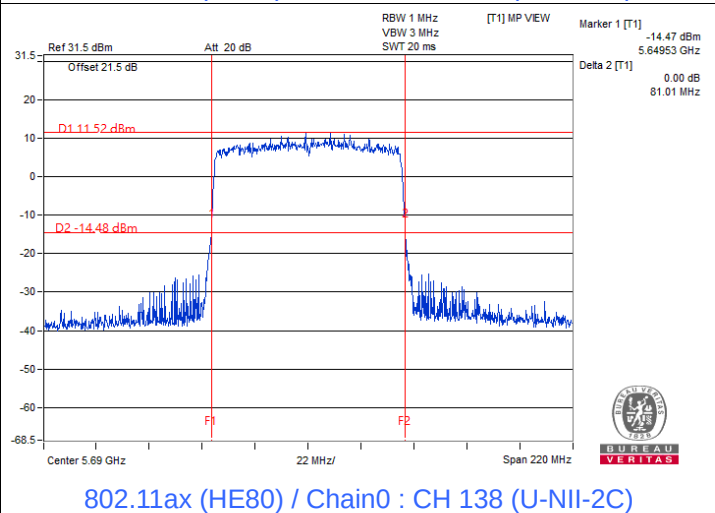
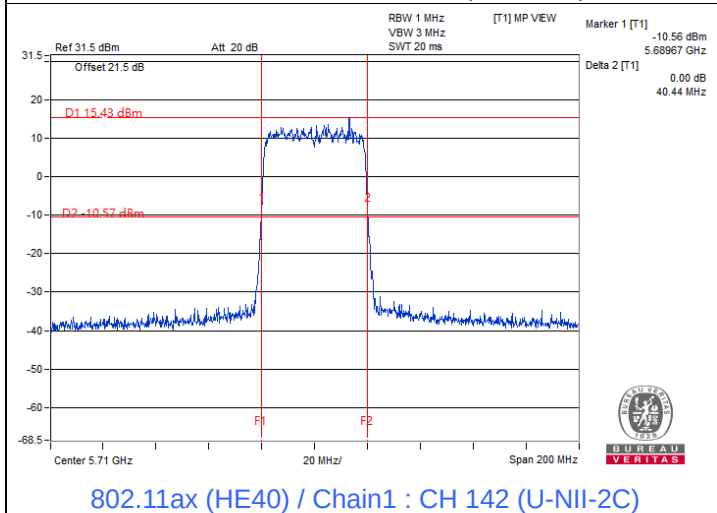
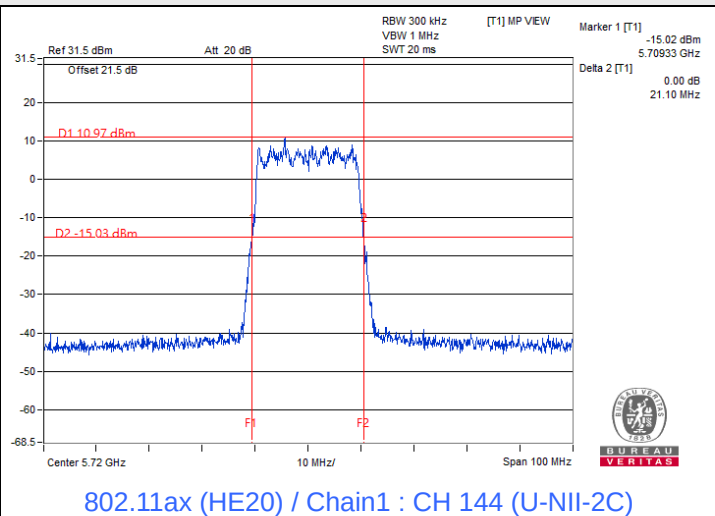
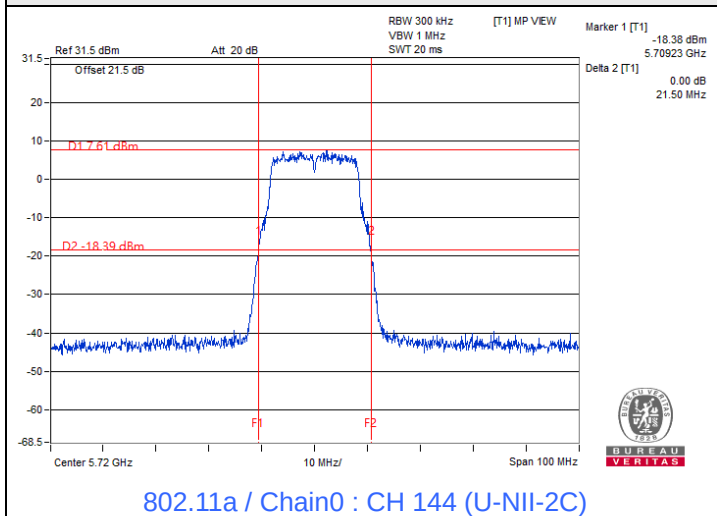
802.11ax (HE160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-2A)	5250	83.79	82.84	82.61	82.97
114	5570	168.66	166.67	167.26	166.56

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
50 (U-NII-2A)	5250	82.61	30.17 > 24
114	5570	166.56	33.21 > 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

7.2 RF Output Power

Mode A

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

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.26	20.69	20.56	20.79	457.102	26.60	30	Pass
40	5200	20.10	20.71	20.62	20.78	455.109	26.58	30	Pass
48	5240	20.30	20.92	20.40	20.68	457.344	26.60	30	Pass
52	5260	16.50	16.80	16.28	16.69	181.659	22.59	24	Pass
60	5300	16.61	16.70	16.24	16.57	180.055	22.55	24	Pass
64	5320	16.34	16.86	16.03	16.88	180.421	22.56	24	Pass
100	5500	16.56	16.53	16.10	16.33	173.959	22.40	24	Pass
116	5580	16.30	16.53	16.36	16.40	174.539	22.42	24	Pass
140	5700	16.17	16.31	16.60	16.45	174.022	22.41	24	Pass
*144 (U-NII-2C)	5720	15.97	14.98	15.35	15.42	140.125	21.47	22.97	Pass
*144 (U-NII-3)	5720	9.53	10.25	9.22	9.09	36.032	15.57	30	Pass
149	5745	23.92	23.81	23.50	23.69	944.796	29.75	30	Pass
157	5785	23.94	23.82	23.57	23.77	954.474	29.80	30	Pass
165	5825	23.83	23.83	23.26	23.74	931.52	29.69	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.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the directional gain is 3.93 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 3.45 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.33 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 4.54 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.26	20.54	20.26	20.40	435.227	26.39	30	Pass
40	5200	19.93	20.70	20.02	20.23	421.791	26.25	30	Pass
48	5240	20.16	20.68	19.90	20.36	427.069	26.30	30	Pass
52	5260	16.35	16.44	16.51	16.69	178.645	22.52	24	Pass
60	5300	16.16	16.65	16.67	16.31	176.751	22.47	24	Pass
64	5320	16.32	16.77	15.99	16.64	176.239	22.46	24	Pass
100	5500	16.46	16.83	16.39	16.51	180.776	22.57	24	Pass
116	5580	16.55	16.48	16.36	16.47	177.261	22.49	24	Pass
140	5700	16.37	16.53	16.27	16.64	176.825	22.48	24	Pass
*144 (U-NII-2C)	5720	15.69	16.02	15.72	15.61	150.779	21.78	22.95	Pass
*144 (U-NII-3)	5720	10.27	10.75	9.98	10.22	43	16.33	30	Pass
149	5745	23.36	23.41	23.70	23.93	917.646	29.63	30	Pass
157	5785	23.20	23.17	23.42	23.74	872.799	29.41	30	Pass
165	5825	23.25	23.21	23.37	23.85	880.691	29.45	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.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the directional gain is 3.93 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 3.45 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 4.33 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 4.54 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.12	17.56	17.12	15.87	198.699	22.98	30	Pass
46	5230	23.58	23.66	23.28	22.50	850.95	29.30	30	Pass
54	5270	17.87	18.07	17.70	16.87	232.881	23.67	24	Pass
62	5310	17.99	17.86	17.43	17.05	230.079	23.62	24	Pass
102	5510	18.06	17.79	17.40	16.90	228.023	23.58	24	Pass
110	5550	17.99	17.85	17.45	16.79	227.248	23.57	24	Pass
134	5670	18.00	17.98	17.63	16.67	230.296	23.62	24	Pass
*142 (U-NII-2C)	5710	17.27	17.64	17.23	16.83	212.449	23.27	24	Pass
*142 (U-NII-3)	5710	7.40	7.75	7.49	6.82	21.871	13.40	30	Pass
151	5755	23.57	23.63	23.27	22.89	865.045	29.37	30	Pass
159	5795	23.49	23.53	22.99	22.90	842.833	29.26	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.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.93 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.45 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.33 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.54 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	16.12	16.43	16.30	16.44	171.594	22.35	30	Pass
58	5290	16.41	16.31	16.18	16.51	172.775	22.37	24	Pass
106	5530	17.60	17.62	17.49	17.79	231.576	23.65	24	Pass
122	5610	17.66	17.52	17.42	17.80	230.302	23.62	24	Pass
*138 (U-NII-2C)	5690	17.38	17.76	17.02	17.49	220.86	23.44	24	Pass
*138 (U-NII-3)	5690	4.06	4.17	3.18	4.29	9.924	9.97	30	Pass
155	5775	21.93	22.30	22.36	22.36	670.153	28.26	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.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.93 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.45 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.33 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.54 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1)	5250	15.55	15.97	15.47	15.51	146.229	21.65	30	Pass
*50 (U-NII-2A)	5250	16.11	16.39	15.53	15.88	158.836	22.01	24	Pass
114	5570	17.53	17.65	17.11	17.40	221.193	23.45	24	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 3.93 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 3.45 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 4.33 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.53	20.82	20.59	20.70	465.802	26.68	30	Pass
40	5200	20.17	21.05	20.34	20.50	451.688	26.55	30	Pass
48	5240	20.45	20.94	20.18	20.65	455.459	26.58	30	Pass
52	5260	16.80	16.91	17.07	17.27	201.22	23.04	24	Pass
60	5300	17.11	17.26	16.53	17.02	199.943	23.01	24	Pass
64	5320	17.04	17.35	16.55	17.23	202.938	23.07	24	Pass
100	5500	16.93	17.07	16.76	16.99	197.678	22.96	24	Pass
116	5580	16.96	16.98	16.88	16.96	197.96	22.97	24	Pass
140	5700	16.89	17.07	16.85	16.97	197.989	22.97	24	Pass
*144 (U-NII-2C)	5720	15.69	16.02	15.72	15.61	150.779	21.78	22.95	Pass
*144 (U-NII-3)	5720	10.27	10.75	9.98	10.22	43	16.33	30	Pass
149	5745	23.44	23.60	23.75	24.06	941.708	29.74	30	Pass
157	5785	23.31	23.30	23.59	23.92	903.249	29.56	30	Pass
165	5825	23.36	23.25	23.37	24.01	897.157	29.53	30	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the directional gain is 3.93 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the directional gain is 3.45 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the directional gain is 4.33 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the directional gain is 4.54 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.17	17.59	17.18	16.01	201.673	23.05	30	Pass
46	5230	23.60	23.72	23.47	22.57	867.64	29.38	30	Pass
54	5270	18.03	18.29	17.93	17.14	244.833	23.89	24	Pass
62	5310	18.13	18.05	17.57	17.15	237.867	23.76	24	Pass
102	5510	18.20	18.00	17.47	17.05	235.711	23.72	24	Pass
110	5550	18.16	18.01	17.49	16.80	232.673	23.67	24	Pass
134	5670	18.15	18.05	17.70	16.72	235.013	23.71	24	Pass
*142 (U-NII-2C)	5710	17.27	17.64	17.23	16.83	212.449	23.27	24	Pass
*142 (U-NII-3)	5710	7.40	7.75	7.49	6.82	21.871	13.40	30	Pass
151	5755	23.74	23.78	23.39	23.07	896.414	29.53	30	Pass
159	5795	23.66	23.70	23.25	23.01	878.032	29.44	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.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.93 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.45 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.33 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.54 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	16.22	16.58	16.42	16.60	176.94	22.48	30	Pass
58	5290	16.49	16.43	16.22	16.62	176.319	22.46	24	Pass
106	5530	17.69	17.74	17.59	17.94	237.82	23.76	24	Pass
122	5610	17.81	17.66	17.51	17.87	236.338	23.74	24	Pass
*138 (U-NII-2C)	5690	17.38	17.76	17.02	17.49	220.86	23.44	24	Pass
*138 (U-NII-3)	5690	4.06	4.17	3.18	4.29	9.924	9.97	30	Pass
155	5775	22.05	22.37	22.56	22.45	689.002	28.38	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.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.93 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.45 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.33 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.54 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1)	5250	15.55	15.97	15.47	15.51	146.229	21.65	30	Pass
*50 (U-NII-2A)	5250	16.11	16.39	15.53	15.88	158.836	22.01	24	Pass
114	5570	17.67	17.76	17.24	17.62	228.958	23.60	24	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 3.93 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.45 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 4.33 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.26	20.54	20.26	20.40	435.227	26.39	28.77	Pass
40	5200	19.93	20.70	20.02	20.23	421.791	26.25	28.77	Pass
48	5240	20.16	20.68	19.90	20.36	427.069	26.30	28.77	Pass
52	5260	16.16	16.21	16.28	16.49	170.115	22.31	23.02	Pass
60	5300	16.00	16.45	16.47	16.09	168.973	22.28	23.02	Pass
64	5320	16.13	16.53	15.74	16.41	167.248	22.23	23.02	Pass
100	5500	16.21	16.60	16.21	16.35	172.427	22.37	22.91	Pass
116	5580	16.31	16.24	16.18	16.26	168.591	22.27	22.91	Pass
140	5700	16.17	16.37	16.05	16.41	168.775	22.27	22.91	Pass
*144 (U-NII-2C)	5720	15.48	15.88	15.51	15.43	144.521	21.60	21.86	Pass
*144 (U-NII-3)	5720	10.04	10.55	9.80	10.01	41.016	16.13	29.01	Pass
149	5745	19.46	19.67	19.86	20.05	378.977	25.79	29.01	Pass
157	5785	19.55	19.47	19.81	19.94	373.016	25.72	29.01	Pass
165	5825	19.69	19.59	19.64	19.96	375.23	25.74	29.01	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.23 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (7.23 - 6) = 28.77$ dBm.
- For U-NII-2A, the directional gain is 6.98 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.98 - 6)].
- For U-NII-2C, the directional gain is 7.09 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (7.09 - 6)].
- For U-NII-3, the directional gain is 6.99 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.99 - 6) = 29.01$ dBm.

802.11ac (VHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.12	17.56	17.12	15.87	198.699	22.98	28.77	Pass
46	5230	20.78	20.82	20.51	19.74	447.105	26.50	28.77	Pass
54	5270	16.66	17.02	16.61	15.84	180.88	22.57	23.02	Pass
62	5310	16.72	16.78	16.64	16.09	181.409	22.59	23.02	Pass
102	5510	16.94	16.68	16.36	15.79	177.173	22.48	22.91	Pass
110	5550	16.82	16.71	16.60	15.64	177.318	22.49	22.91	Pass
134	5670	16.71	16.75	16.60	15.67	176.803	22.47	22.91	Pass
*142 (U-NII-2C)	5710	16.32	16.68	16.21	16.75	178.512	22.52	22.91	Pass
*142 (U-NII-3)	5710	6.37	6.71	6.53	5.92	17.429	12.41	29.01	Pass
151	5755	19.81	19.82	19.65	19.73	377.889	25.77	29.01	Pass
159	5795	19.72	19.85	19.53	19.85	376.709	25.76	29.01	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.23 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (7.23 - 6) = 28.77$ dBm.
- For U-NII-2A, the directional gain is 6.98 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.98 - 6)].
- For U-NII-2C, the directional gain is 7.09 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (7.09 - 6)].
- For U-NII-3, the directional gain is 6.99 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.99 - 6) = 29.01$ dBm.

802.11ac (VHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	16.12	16.43	16.30	16.44	171.594	22.35	28.77	Pass
58	5290	16.41	16.31	16.18	16.51	172.775	22.37	23.02	Pass
106	5530	16.46	16.54	16.36	16.67	179.043	22.53	22.91	Pass
122	5610	16.72	16.69	16.43	16.69	184.275	22.65	22.91	Pass
*138 (U-NII-2C)	5690	16.33	16.75	16.05	16.53	175.518	22.44	22.91	Pass
*138 (U-NII-3)	5690	3.03	3.11	3.05	3.34	8.232	9.16	29.01	Pass
155	5775	19.43	19.82	19.85	19.96	379.328	25.79	29.01	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.23 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (7.23 - 6) = 28.77$ dBm.
- For U-NII-2A, the directional gain is 6.98 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.98-6)].
- For U-NII-2C, the directional gain is 7.09 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.09-6)].
- For U-NII-3, the directional gain is 6.99 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.99 - 6) = 29.01$ dBm.

802.11ac (VHT160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1)	5250	14.54	15.01	14.56	14.63	117.756	20.71	28.77	Pass
*50 (U-NII-2A)	5250	15.07	15.44	14.65	14.92	127.351	21.05	23.02	Pass
114	5570	16.59	16.80	16.19	16.55	180.243	22.56	22.91	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.23 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (7.23 - 6) = 28.77$ dBm.
- For U-NII-2A, the directional gain is 6.98 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.98-6)].
- For U-NII-2C, the directional gain is 7.09 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.09-6)].

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	20.53	20.82	20.59	20.70	465.802	26.68	28.77	Pass
40	5200	20.17	21.05	20.34	20.50	451.688	26.55	28.77	Pass
48	5240	20.45	20.94	20.18	20.65	455.459	26.58	28.77	Pass
52	5260	16.22	16.50	16.53	16.87	180.166	22.56	23.02	Pass
60	5300	16.61	16.84	15.87	16.57	178.151	22.51	23.02	Pass
64	5320	16.51	16.89	16.00	16.62	179.367	22.54	23.02	Pass
100	5500	16.88	16.90	16.56	16.83	191.215	22.82	22.91	Pass
116	5580	16.78	16.65	16.54	16.58	184.462	22.66	22.91	Pass
140	5700	16.54	16.78	16.62	16.78	186.288	22.70	22.91	Pass
*144 (U-NII-2C)	5720	15.48	15.88	15.51	15.43	144.521	21.60	21.86	Pass
*144 (U-NII-3)	5720	10.04	10.55	9.80	10.01	41.016	16.13	29.01	Pass
149	5745	19.70	19.79	20.17	20.28	399.257	26.01	29.01	Pass
157	5785	19.82	19.71	19.94	20.29	395.014	25.97	29.01	Pass
165	5825	19.84	19.79	19.95	20.34	398.661	26.01	29.01	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.23 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (7.23 - 6) = 28.77$ dBm.
- For U-NII-2A, the directional gain is 6.98 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.98 - 6)].
- For U-NII-2C, the directional gain is 7.09 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (7.09 - 6)].
- For U-NII-3, the directional gain is 6.99 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.99 - 6) = 29.01$ dBm.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	17.17	17.59	17.18	16.01	201.673	23.05	28.77	Pass
46	5230	21.11	21.08	20.79	20.13	480.344	26.82	28.77	Pass
54	5270	16.88	17.18	16.84	16.03	189.385	22.77	23.02	Pass
62	5310	16.87	16.95	16.53	16.24	185.236	22.68	23.02	Pass
102	5510	17.11	16.89	16.47	15.95	183.985	22.65	22.91	Pass
110	5550	17.02	16.82	16.42	15.88	181.013	22.58	22.91	Pass
134	5670	17.00	16.90	16.77	15.88	185.356	22.68	22.91	Pass
*142 (U-NII-2C)	5710	16.32	16.68	16.21	16.75	178.512	22.52	22.91	Pass
*142 (U-NII-3)	5710	6.37	6.71	6.53	5.92	17.429	12.41	29.01	Pass
151	5755	20.20	20.21	20.03	20.08	412.219	26.15	29.01	Pass
159	5795	19.98	19.99	19.76	19.98	393.475	25.95	29.01	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.23 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (7.23 - 6) = 28.77$ dBm.
- For U-NII-2A, the directional gain is 6.98 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (6.98 - 6)].
- For U-NII-2C, the directional gain is 7.09 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit - (7.09 - 6)].
- For U-NII-3, the directional gain is 6.99 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.99 - 6) = 29.01$ dBm.

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	16.22	16.58	16.42	16.60	176.94	22.48	28.77	Pass
58	5290	16.49	16.43	16.22	16.62	176.319	22.46	23.02	Pass
106	5530	16.58	16.68	16.50	16.82	184.81	22.67	22.91	Pass
122	5610	16.74	16.82	16.37	16.69	185.307	22.68	22.91	Pass
*138 (U-NII-2C)	5690	16.33	16.75	16.05	16.53	175.518	22.44	22.91	Pass
*138 (U-NII-3)	5690	3.03	3.11	3.05	3.34	8.232	9.16	29.01	Pass
155	5775	19.66	20.01	19.99	20.11	395.036	25.97	29.01	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.23 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (7.23 - 6) = 28.77$ dBm.
- For U-NII-2A, the directional gain is 6.98 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.98-6)].
- For U-NII-2C, the directional gain is 7.09 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.09-6)].
- For U-NII-3, the directional gain is 6.99 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.99 - 6) = 29.01$ dBm.

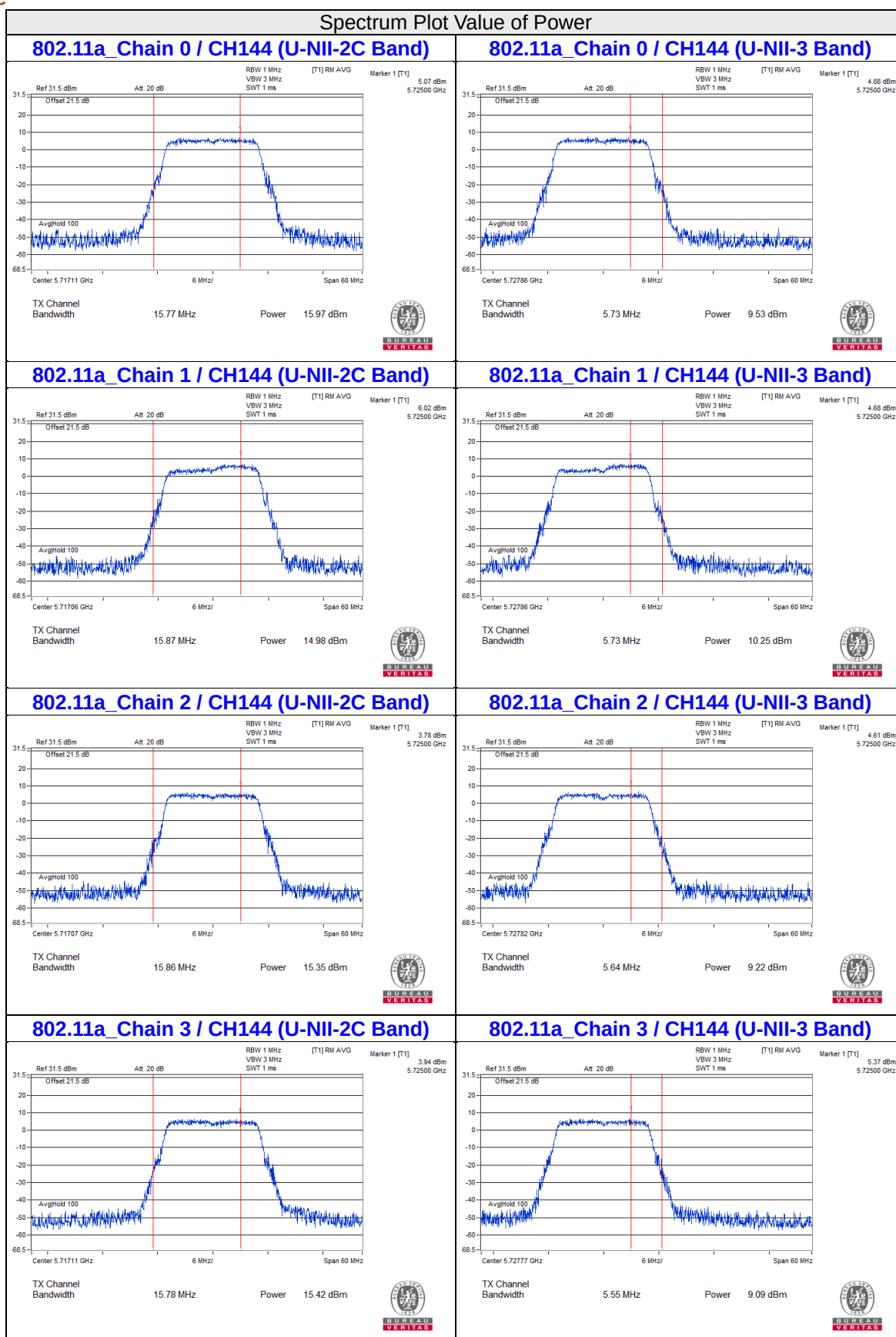
802.11ax (HE160) Beamforming

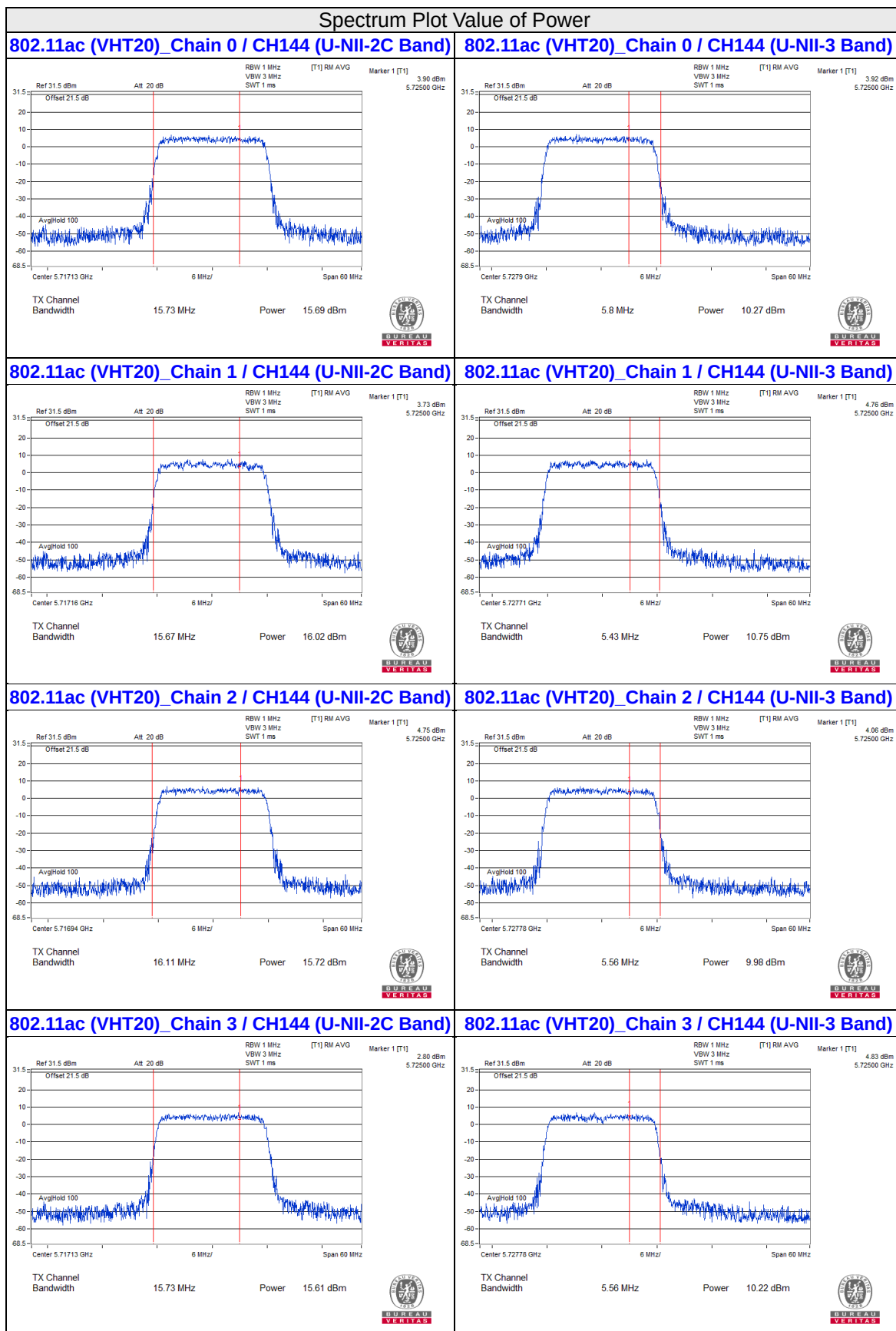
Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
*50 (U-NII-1)	5250	14.54	15.01	14.56	14.63	117.756	20.71	28.77	Pass
*50 (U-NII-2A)	5250	15.07	15.44	14.65	14.92	127.351	21.05	23.02	Pass
114	5570	16.74	16.79	16.27	16.63	183.349	22.63	22.91	Pass

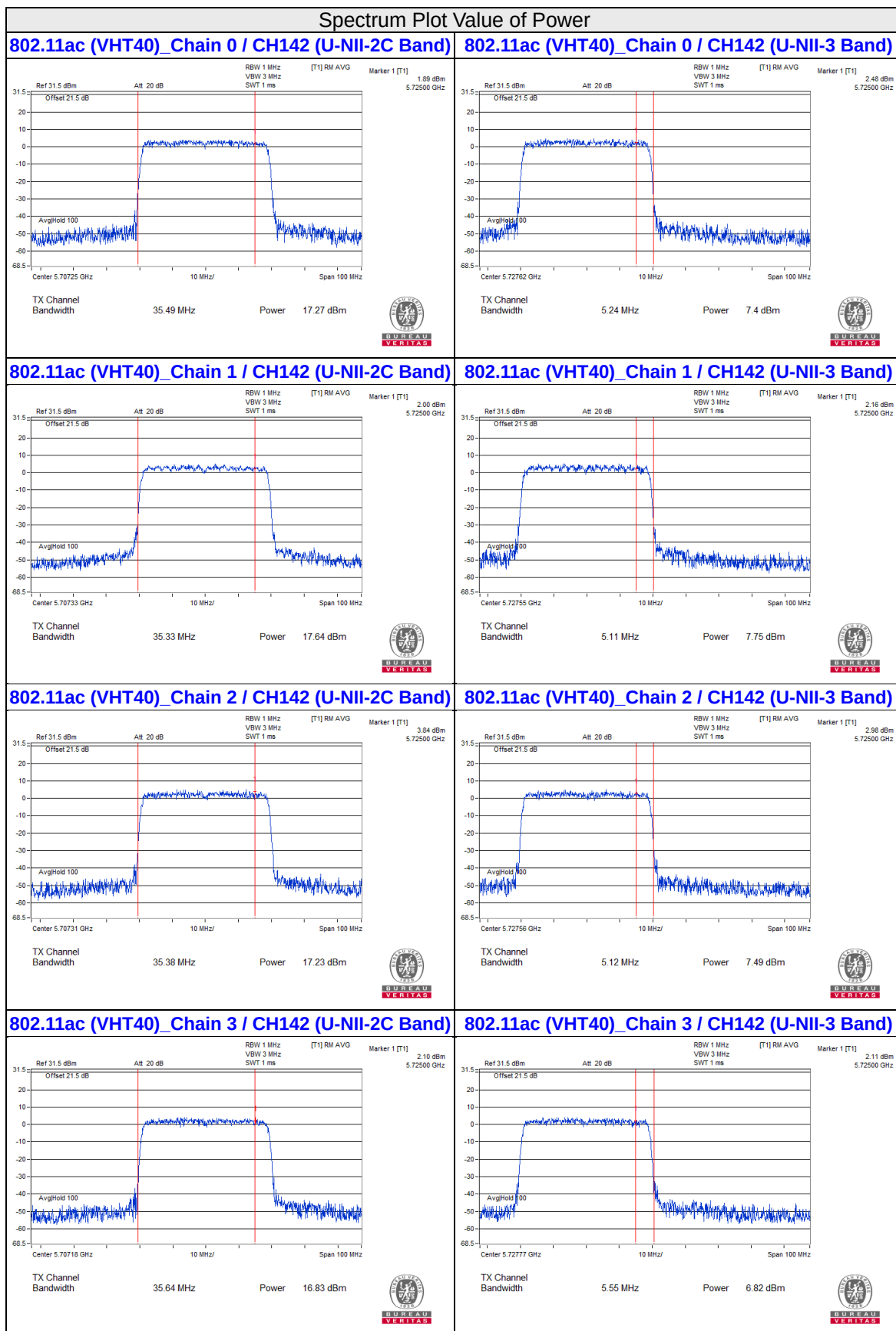
Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.23 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (7.23 - 6) = 28.77$ dBm.
- For U-NII-2A, the directional gain is 6.98 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.98-6)].
- For U-NII-2C, the directional gain is 7.09 dBi > 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(7.09-6)].

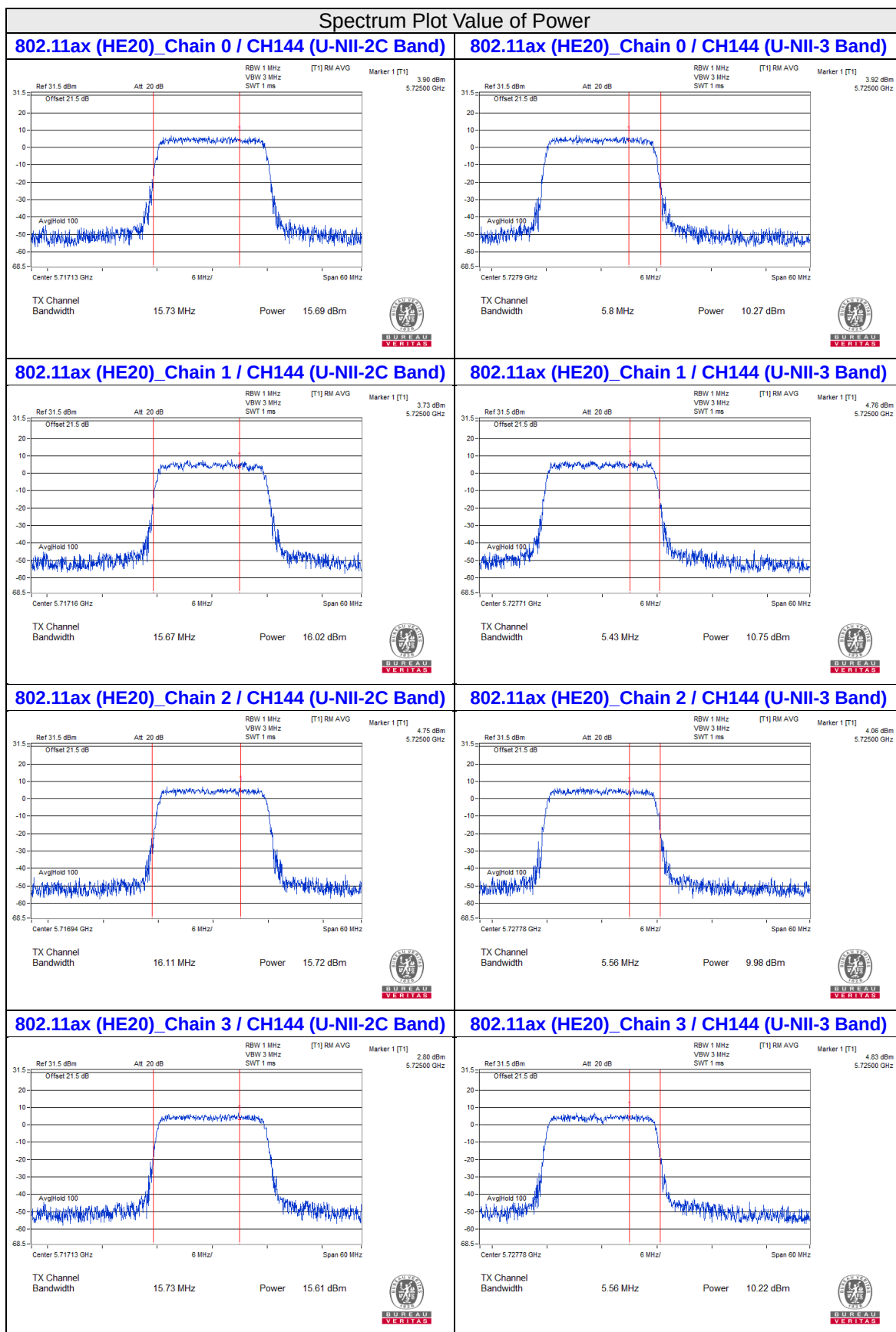
For channel straddling 5725MHz of Power CDD Mode

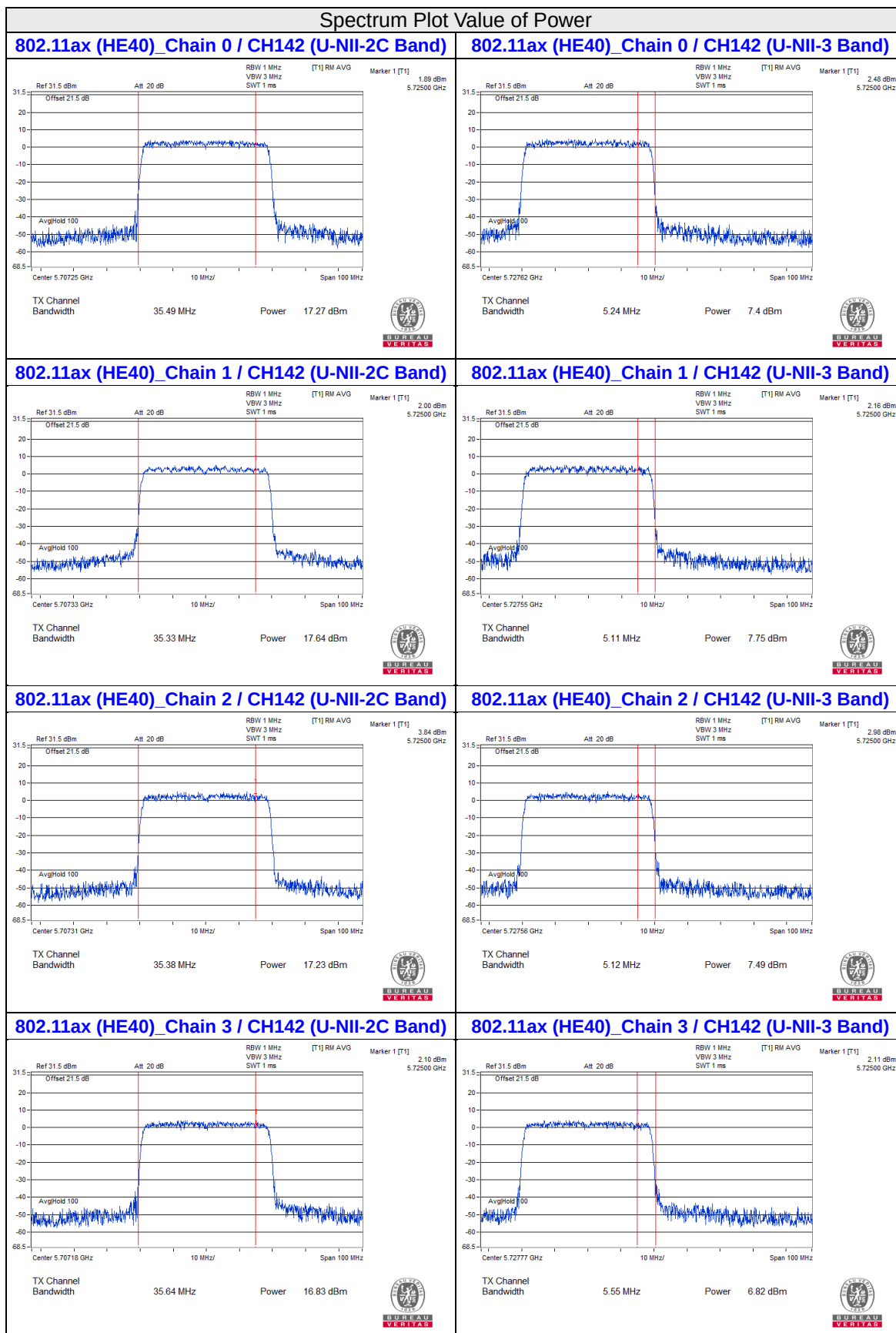


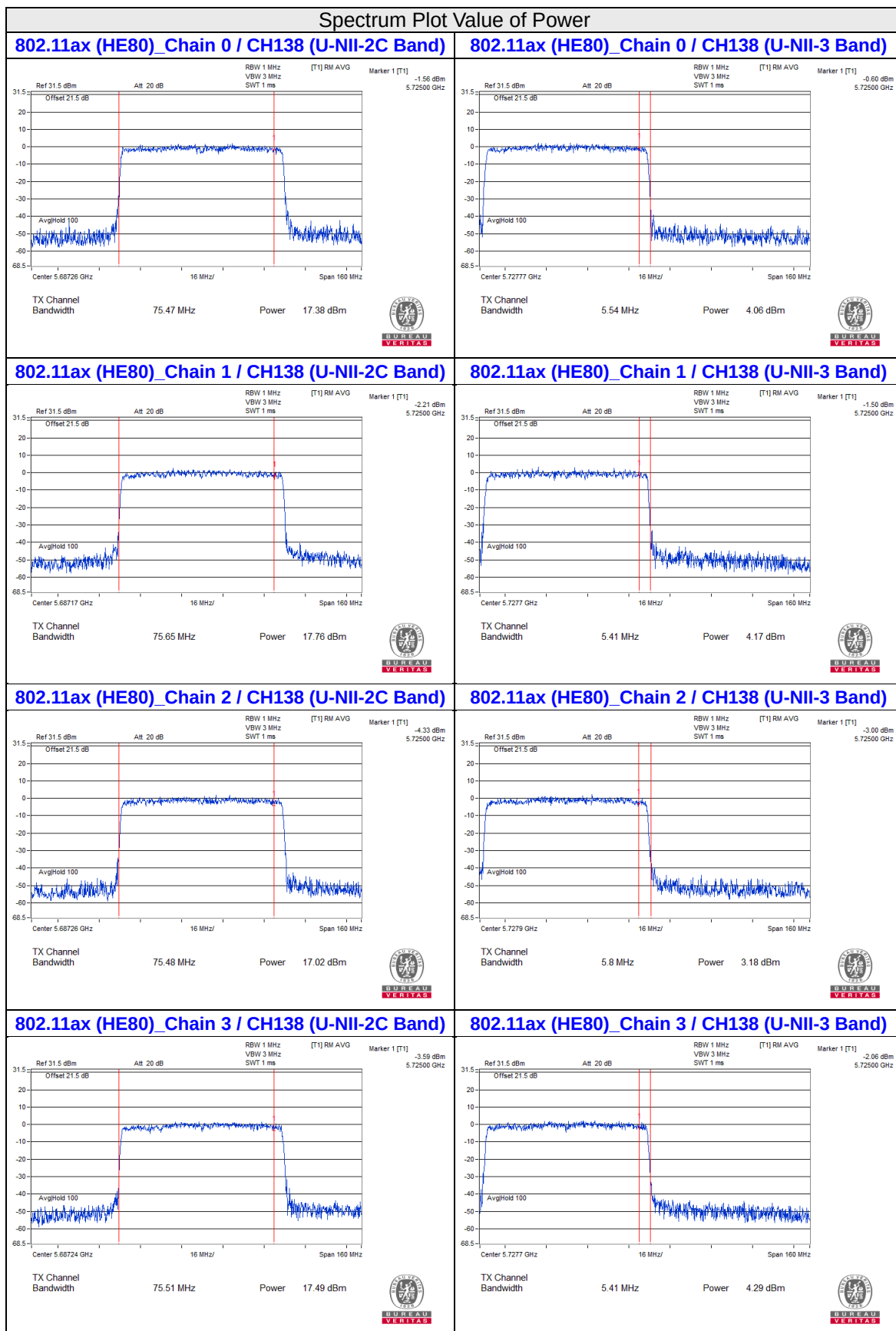




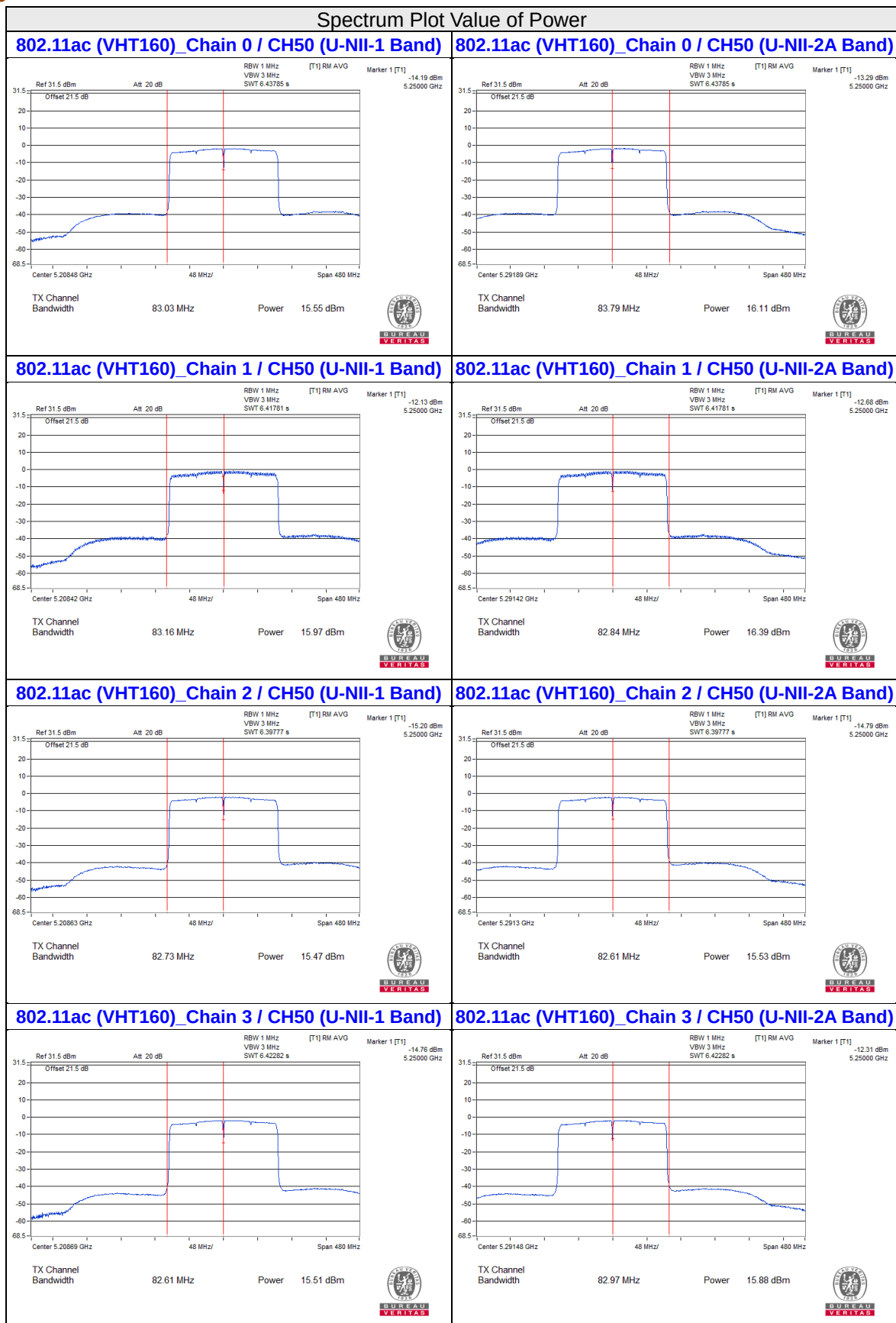








For channel straddling 5250MHz of Power CDD Mode





7.3 Power Spectral Density

Mode A

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)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	6.80	8.43	7.45	6.34	13.35	15.77	Pass
40	5200	6.65	8.41	7.28	7.22	13.46	15.77	Pass
48	5240	6.79	8.17	7.30	7.20	13.42	15.77	Pass
52	5260	2.97	4.23	3.22	3.06	9.42	10.02	Pass
60	5300	3.21	4.28	3.03	2.87	9.40	10.02	Pass
64	5320	3.13	3.63	3.20	3.37	9.36	10.02	Pass
100	5500	3.46	3.61	2.95	2.92	9.27	9.91	Pass
116	5580	2.99	4.26	3.20	2.98	9.41	9.91	Pass
140	5700	3.03	4.35	2.93	3.07	9.41	9.91	Pass
144 (U-NII-2C)	5720	3.33	4.00	2.81	3.03	9.34	9.91	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 7.23 dBi > 6dBi, so the power density limit shall be reduced to $17 - (7.23 - 6) = 15.77$ dBm/MHz.
4. For U-NII-2A, the directional gain is 6.98 dBi > 6 dBi, so the power density limit shall be reduced to $11 - (6.98 - 6) = 10.02$ dBm/MHz.
5. For U-NII-2C, the directional gain is 7.09 dBi > 6 dBi, so the power density limit shall be reduced to $11 - (7.09 - 6) = 9.91$ dBm/MHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	6.49	7.94	6.78	6.59	13.01	15.77	Pass
40	5200	6.24	5.56	6.94	6.55	12.37	15.77	Pass
48	5240	6.50	8.02	6.67	6.39	12.97	15.77	Pass
52	5260	2.77	3.77	3.07	3.41	9.29	10.02	Pass
60	5300	3.34	4.33	2.94	3.11	9.49	10.02	Pass
64	5320	3.03	4.04	2.98	3.26	9.37	10.02	Pass
100	5500	3.03	3.67	3.23	3.22	9.31	9.91	Pass
116	5580	3.05	4.11	2.93	2.77	9.27	9.91	Pass
140	5700	3.05	4.27	2.94	2.92	9.35	9.91	Pass
144 (U-NII-2C)	5720	2.85	3.93	2.82	2.70	9.13	9.91	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 7.23 dBi > 6dBi, so the power density limit shall be reduced to $17-(7.23-6) = 15.77$ dBm/MHz.
4. For U-NII-2A, the directional gain is 6.98 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.98-6) = 10.02$ dBm/MHz.
5. For U-NII-2C, the directional gain is 7.09 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.09-6) = 9.91$ dBm/MHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
38	5190	0.23	1.69	0.45	-0.53	6.56	15.77	Pass
46	5230	6.17	7.24	6.81	6.16	12.64	15.77	Pass
54	5270	1.34	2.08	0.94	0.37	7.25	10.02	Pass
62	5310	1.47	1.87	1.17	0.40	7.28	10.02	Pass
102	5510	1.63	1.57	0.87	0.51	7.19	9.91	Pass
110	5550	1.42	2.22	0.47	0.23	7.18	9.91	Pass
134	5670	1.55	2.29	1.10	0.29	7.39	9.91	Pass
142 (U-NII-2C)	5710	1.21	2.11	1.12	0.57	7.31	9.91	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.23 dBi > 6dBi, so the power density limit shall be reduced to $17-(7.23-6) = 15.77$ dBm/MHz.
- For U-NII-2A, the directional gain is 6.98 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.98-6) = 10.02$ dBm/MHz.
- For U-NII-2C, the directional gain is 7.09 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.09-6) = 9.91$ dBm/MHz.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
42	5210	-3.25	-1.95	-2.97	-3.12	3.23	15.77	Pass
58	5290	-2.97	-2.48	-3.42	-3.22	3.01	10.02	Pass
106	5530	-1.96	-1.00	-2.10	-1.79	4.33	9.91	Pass
122	5610	-1.29	-0.61	-1.82	-1.64	4.71	9.91	Pass
138 (U-NII-2C)	5690	-1.34	-0.56	-2.11	-1.66	4.64	9.91	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.23 dBi > 6dBi, so the power density limit shall be reduced to $17-(7.23-6) = 15.77$ dBm/MHz.
- For U-NII-2A, the directional gain is 6.98 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.98-6) = 10.02$ dBm/MHz.
- For U-NII-2C, the directional gain is 7.09 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.09-6) = 9.91$ dBm/MHz.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3			
50 (U-NII-1)	5250	-4.56	-4.10	-5.14	-4.99	1.34	15.77	Pass
50 (U-NII-2A)	5250	-4.45	-4.45	-4.91	-4.90	1.35	10.02	Pass
114	5570	-4.62	-3.55	-5.10	-4.79	1.55	9.91	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7.23 dBi > 6dBi, so the power density limit shall be reduced to $17-(7.23-6) = 15.77$ dBm/MHz.
- For U-NII-2A, the directional gain is 6.98 dBi > 6 dBi, so the power density limit shall be reduced to $11-(6.98-6) = 10.02$ dBm/MHz.
- For U-NII-2C, the directional gain is 7.09 dBi > 6 dBi, so the power density limit shall be reduced to $11-(7.09-6) = 9.91$ dBm/MHz.

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
144 (U-NII-3)	5720	-2.14	-1.14	-2.26	-2.02	4.15	6.37	29.01	Pass
149	5745	5.28	6.55	5.08	5.20	11.59	13.81	29.01	Pass
157	5785	4.57	5.86	4.57	4.61	10.96	13.18	29.01	Pass
165	5825	4.60	6.09	4.73	4.68	11.09	13.31	29.01	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-3, the directional gain is 6.99 dBi > 6 dBi, so the power density limit shall be reduced to $30-(6.99-6) = 29.01$ dBm/500kHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
144 (U-NII-3)	5720	-2.17	-1.41	-2.42	-2.54	3.91	6.13	29.01	Pass
149	5745	4.57	5.56	4.73	4.57	10.9	13.12	29.01	Pass
157	5785	3.99	4.80	4.22	3.92	10.27	12.49	29.01	Pass
165	5825	3.90	4.80	4.47	4.06	10.34	12.56	29.01	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 6.99 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.99 - 6) = 29.01$ dBm/500kHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
142 (U-NII-3)	5710	-4.57	-3.71	-4.91	-5.08	1.49	3.71	29.01	Pass
151	5755	1.61	3.04	1.15	0.92	7.78	10.00	29.01	Pass
159	5795	1.91	2.95	1.73	1.45	8.07	10.29	29.01	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 6.99 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.99 - 6) = 29.01$ dBm/500kHz.

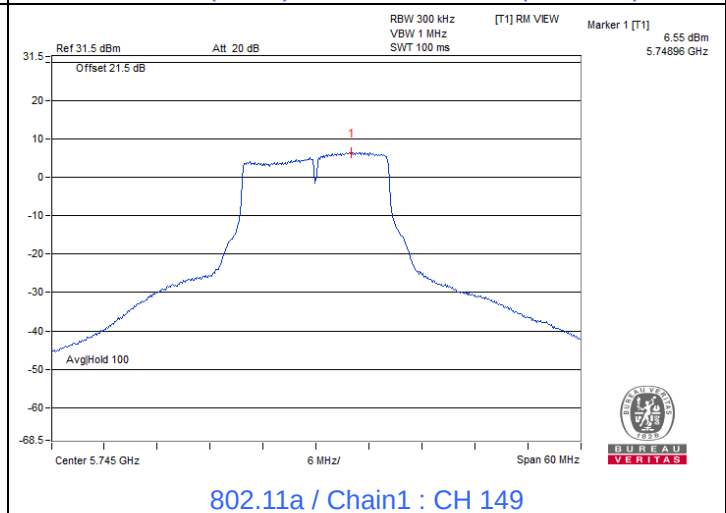
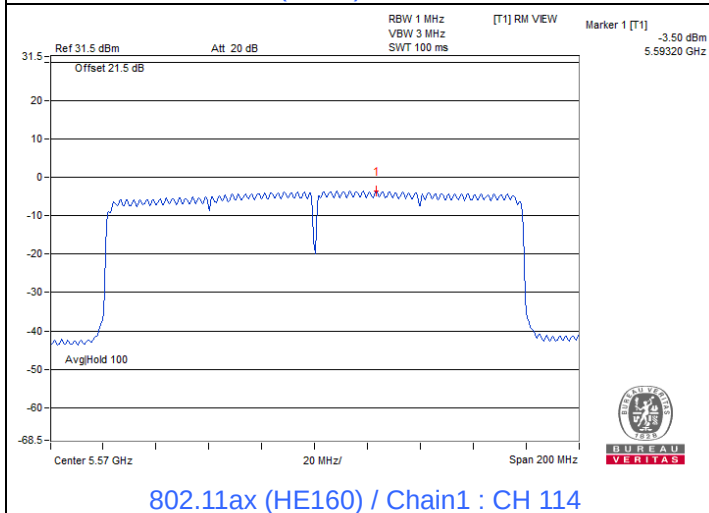
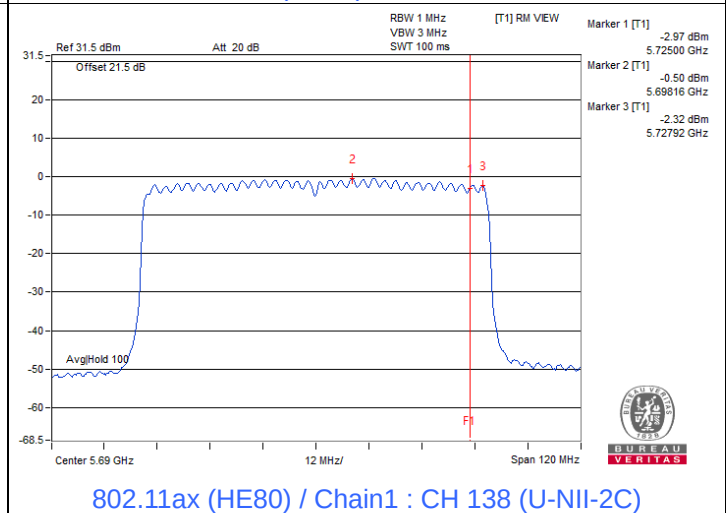
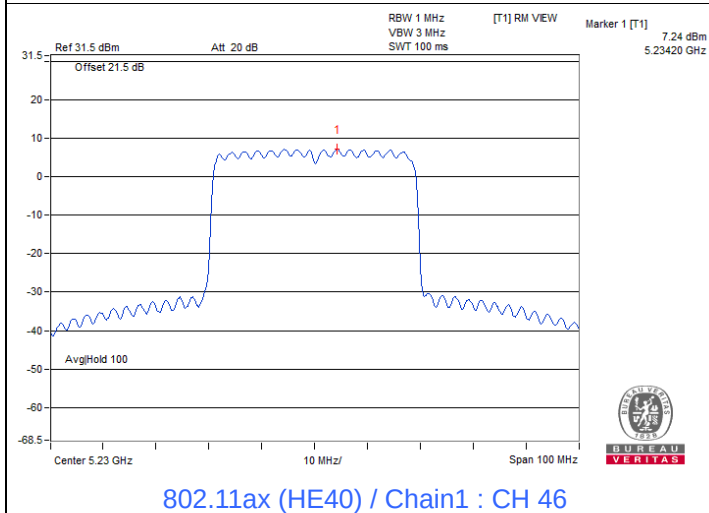
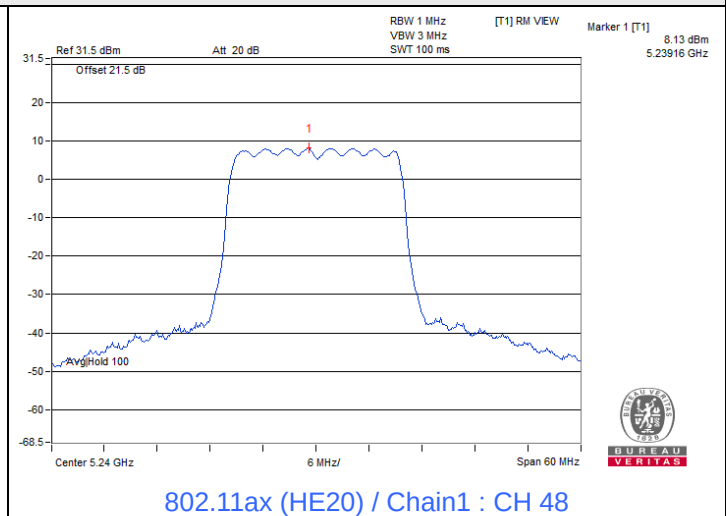
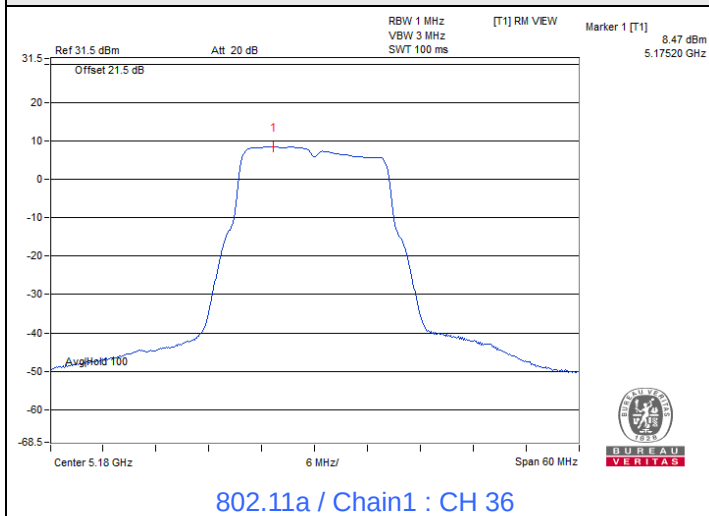
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
138 (U-NII-3)	5690	-7.68	-7.30	-8.51	-7.96	-1.82	0.40	29.01	Pass
155	5775	-2.38	-1.23	-2.83	-3.20	3.68	5.90	29.01	Pass

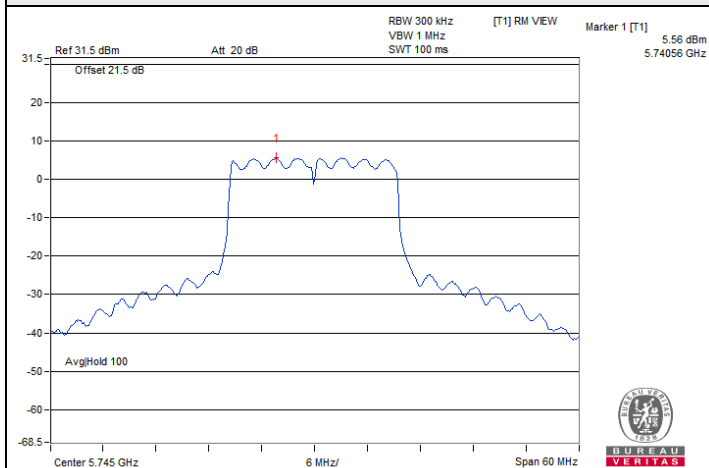
Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 6.99 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.99 - 6) = 29.01$ dBm/500kHz.

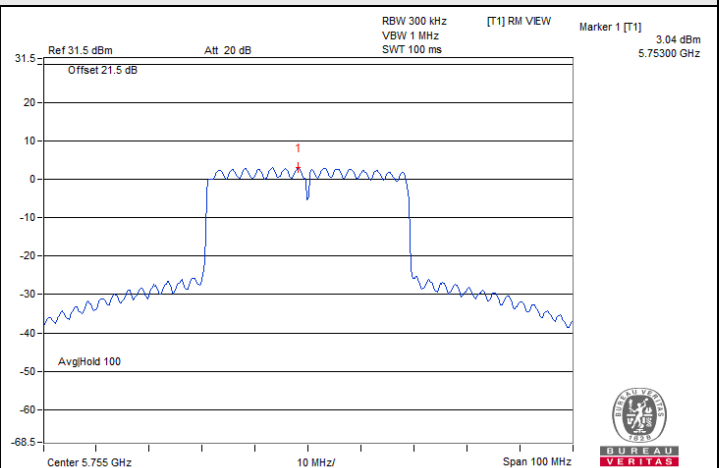
Spectrum Plot of Maximum Value



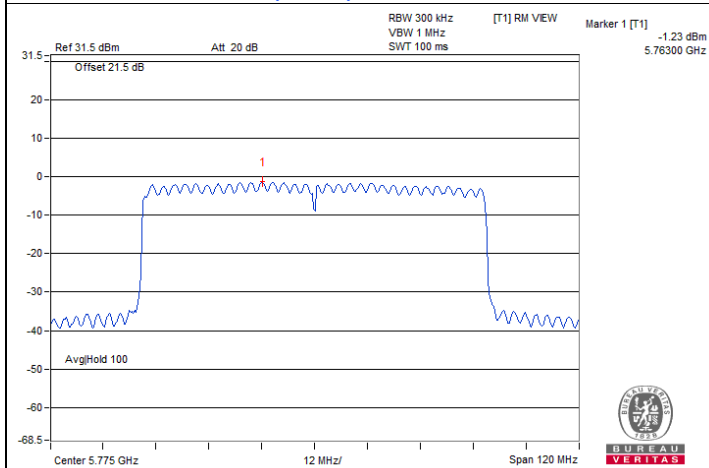
Spectrum Plot of Maximum Value



802.11ax (HE20) / Chain1 : CH 149



802.11ax (HE40) / Chain1 : CH 151



802.11ax (HE80) / Chain1 : CH 155

7.4 6 dB Bandwidth

Mode A

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)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
144 (U-NII-3)	5720	3.07	3.07	3.11	3.09	0.5	Pass
149	5745	16.33	13.18	16.34	16.34	0.5	Pass
157	5785	16.34	15.63	16.33	16.32	0.5	Pass
165	5825	16.07	15.46	16.36	16.33	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
144 (U-NII-3)	5720	4.37	3.90	4.35	4.42	0.5	Pass
149	5745	18.94	18.33	18.67	18.93	0.5	Pass
157	5785	18.85	18.30	18.83	18.60	0.5	Pass
165	5825	18.89	18.31	18.86	18.82	0.5	Pass

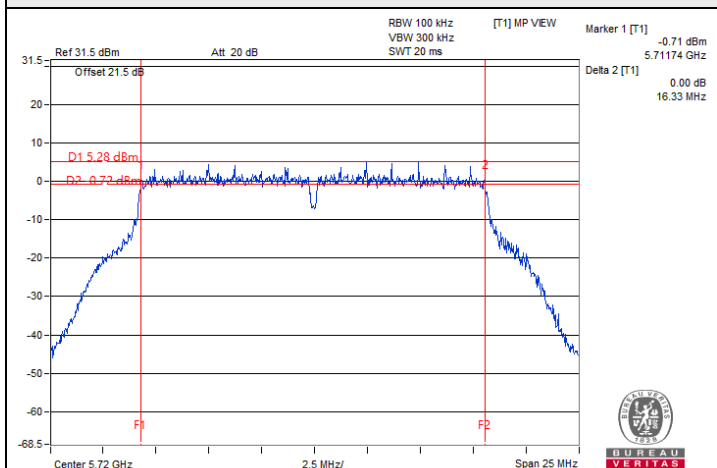
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
142 (U-NII-3)	5710	3.00	2.80	3.17	3.35	0.5	Pass
151	5755	37.69	36.04	37.17	36.75	0.5	Pass
159	5795	37.62	36.23	36.96	36.59	0.5	Pass

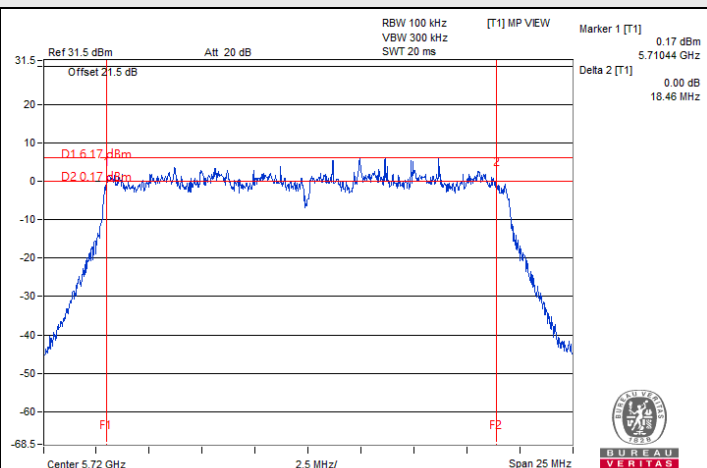
802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
138 (U-NII-3)	5690	2.93	2.44	3.04	2.85	0.5	Pass
155	5775	75.00	74.79	73.76	75.76	0.5	Pass

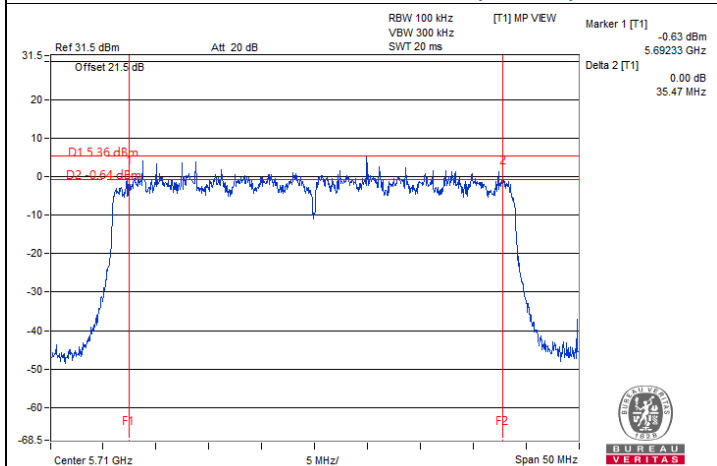
Spectrum Plot of Minimum Value



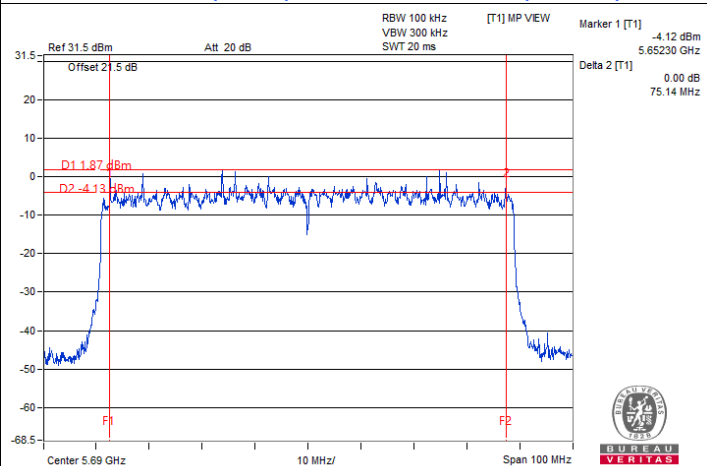
802.11a / Chain0 : CH 144 (U-NII-3)



802.11ax (HE20) / Chain1 : CH 144 (U-NII-3)



802.11ax (HE40) / Chain1 : CH 142 (U-NII-3)



802.11ax (HE80) / Chain1 : CH 138 (U-NII-3)

Notes:

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

7.5 Occupied Bandwidth

Mode A

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)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	16.92	16.86	16.86	16.74
40	5200	16.80	16.92	16.92	16.86
48	5240	16.68	16.68	16.74	16.92
52	5260	16.74	16.98	16.86	16.80
60	5300	16.80	16.98	16.86	16.80
64	5320	16.86	17.04	16.86	16.80
100	5500	16.80	17.10	16.80	16.80
116	5580	16.80	16.86	16.80	16.62
140	5700	16.86	16.92	16.92	16.86
144 (U-NII-2C)	5720	13.46	13.46	13.46	13.46
144 (U-NII-3)	5720	3.34	3.34	3.34	3.34
149	5745	16.86	16.80	16.98	16.86
157	5785	17.10	17.16	17.04	16.92
165	5825	17.22	17.04	17.16	16.92

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	19.02	19.14	19.08	19.02
40	5200	19.14	19.08	19.08	19.08
48	5240	19.08	18.96	19.02	19.08
52	5260	19.02	19.08	19.14	19.08
60	5300	19.14	19.14	19.02	19.02
64	5320	19.02	19.02	19.08	19.08
100	5500	19.08	19.08	19.02	19.08
116	5580	19.08	19.02	19.02	19.02
140	5700	19.14	19.02	19.14	19.08
144 (U-NII-2C)	5720	14.60	14.66	14.54	14.60
144 (U-NII-3)	5720	4.42	4.36	4.42	4.54
149	5745	19.08	19.02	19.08	19.02
157	5785	19.20	19.20	19.08	19.08
165	5825	19.26	19.14	19.14	19.08

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	37.80	37.80	37.62	37.80
46	5230	37.92	37.80	37.80	37.68
54	5270	37.80	37.80	37.80	37.80
62	5310	37.80	37.80	37.62	37.80
102	5510	37.80	37.80	37.62	37.62
110	5550	37.80	37.92	37.68	37.80
134	5670	37.68	37.80	37.92	37.68
142 (U-NII-2C)	5710	33.96	33.90	33.96	33.96
142 (U-NII-3)	5710	3.72	3.72	3.84	3.84
151	5755	37.80	37.92	37.80	37.68
159	5795	38.34	37.80	38.16	37.98

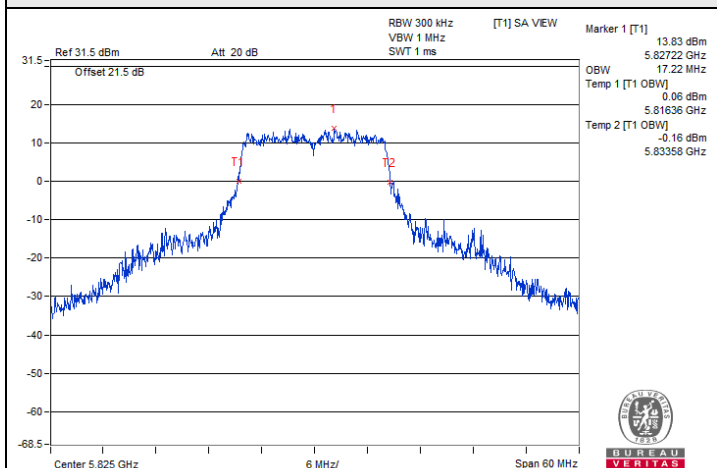
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	76.80	77.04	77.04	77.04
58	5290	77.28	77.28	77.28	77.04
106	5530	76.80	77.28	76.80	77.04
122	5610	77.04	77.04	77.28	77.04
138 (U-NII-2C)	5690	73.52	73.64	73.64	73.64
138 (U-NII-3)	5690	3.40	3.40	3.28	3.40
155	5775	77.04	77.28	77.28	77.04

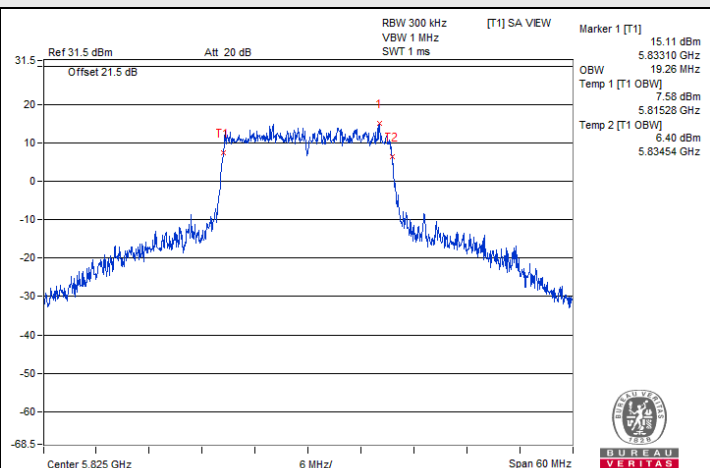
802.11ax (HE160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50 (U-NII-1)	5250	77.76	77.28	77.76	77.28
50 (U-NII-2A)	5250	77.76	77.76	77.76	77.76
114	5570	155.52	156.48	155.04	155.04

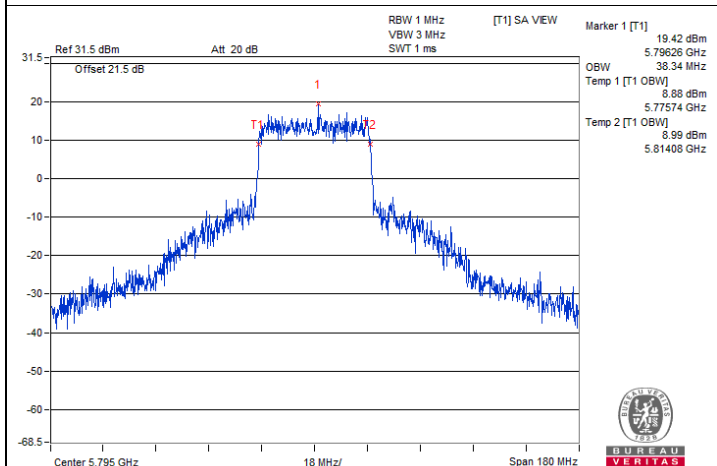
Spectrum Plot of Maximum Value



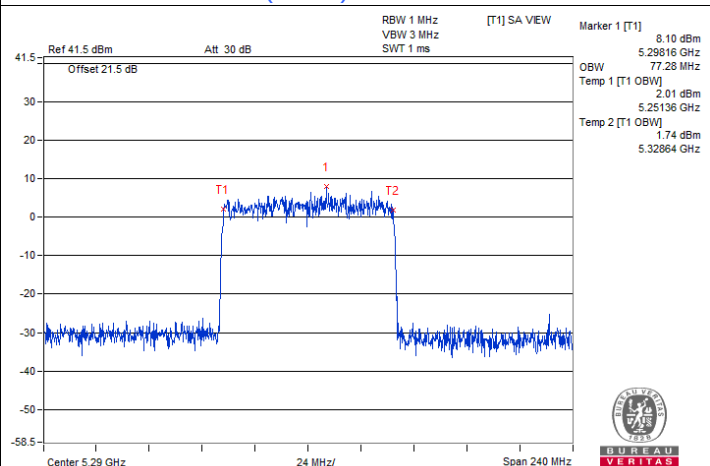
802.11a / Chain0 : CH 165



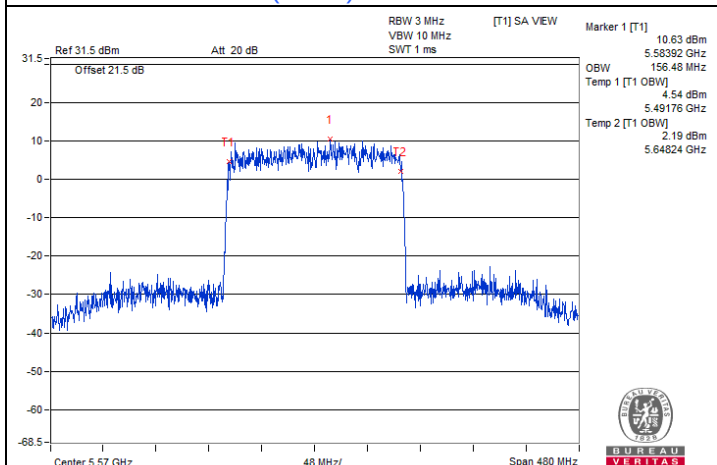
802.11ax (HE20) / Chain0 : CH 165



802.11ax (HE40) / Chain0 : CH 159

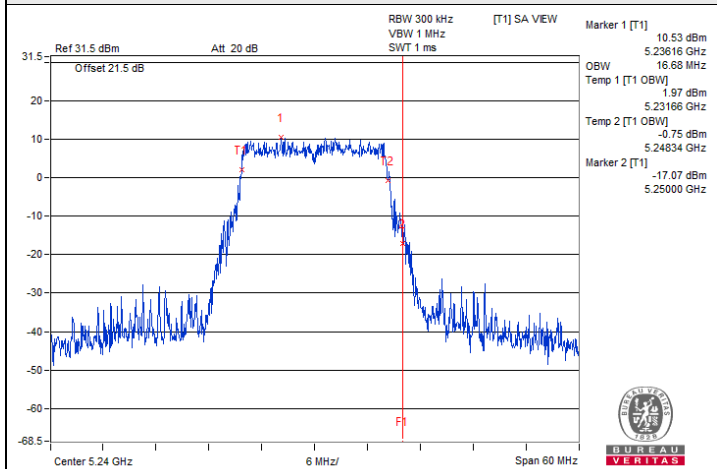


802.11ax (HE80) / Chain0 : CH 58

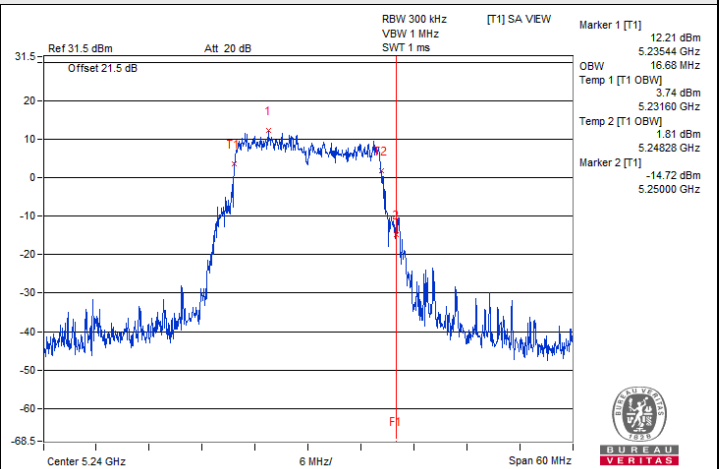


802.11ax (HE160) / Chain1 : CH 114

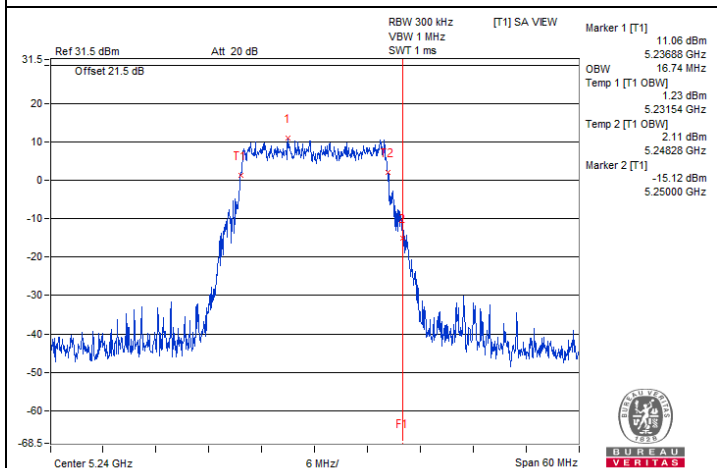
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)



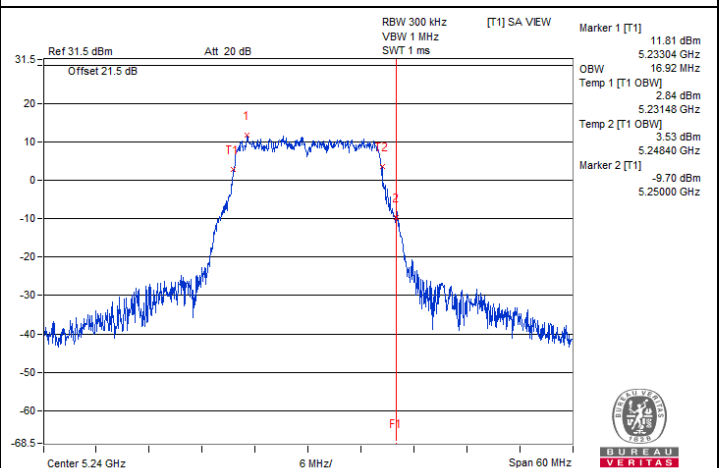
802.11a / Chain 0 : CH 48



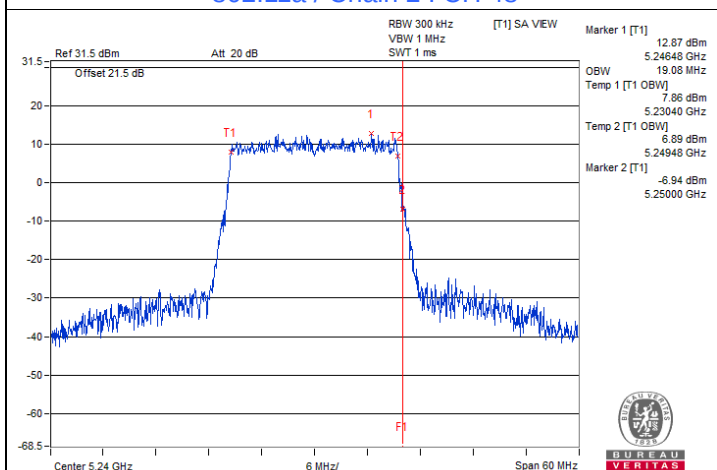
802.11a / Chain 1 : CH 48



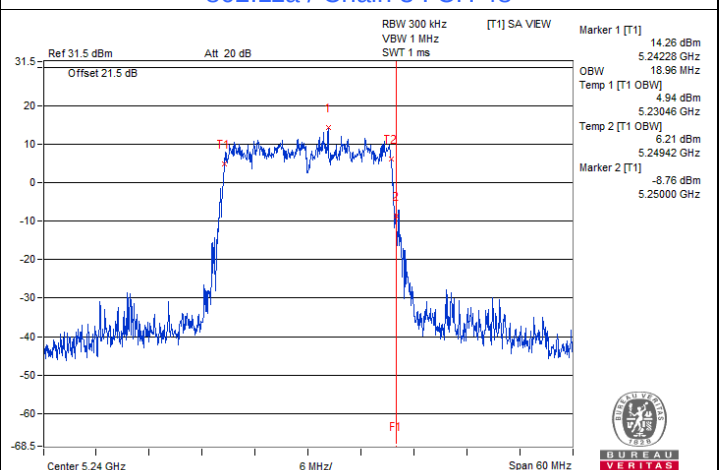
802.11a / Chain 2 : CH 48



802.11a / Chain 3 : CH 48

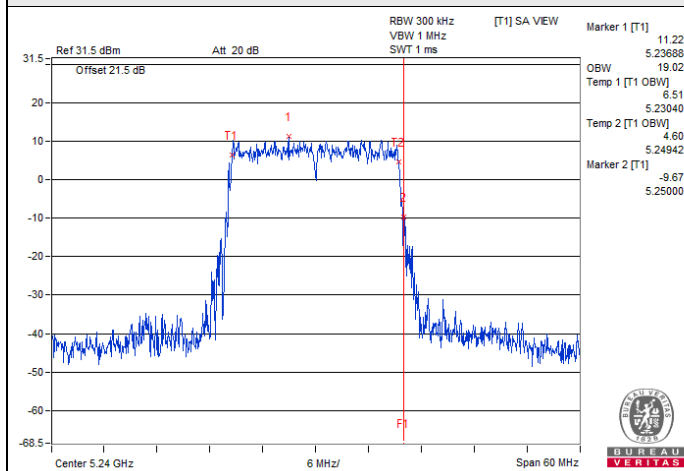


802.11ax (HE20) / Chain 0 : CH 48

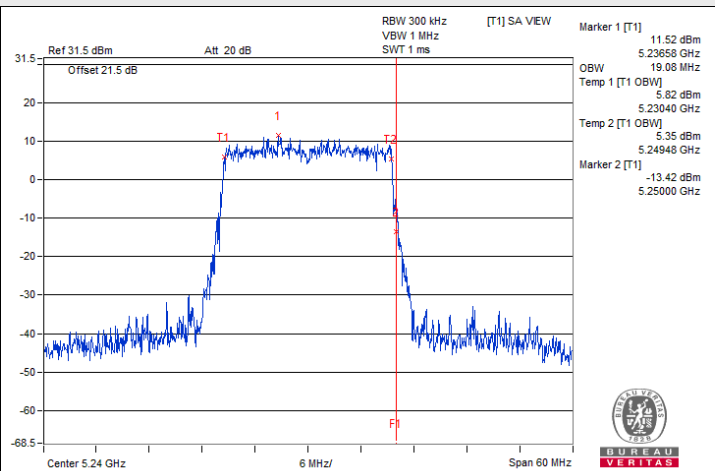


802.11ax (HE20) / Chain 1 : CH 48

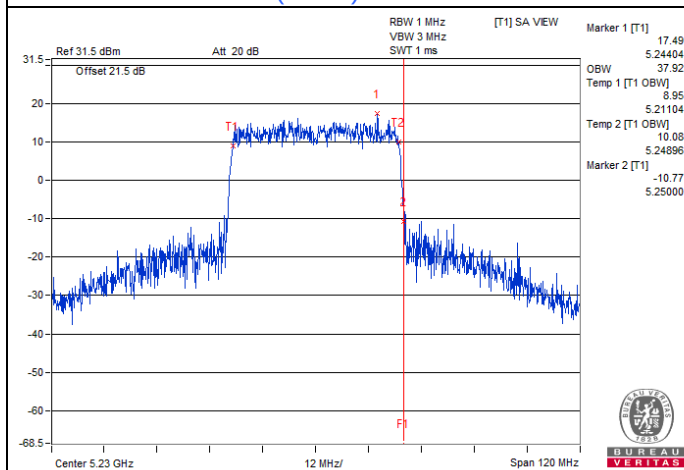
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)



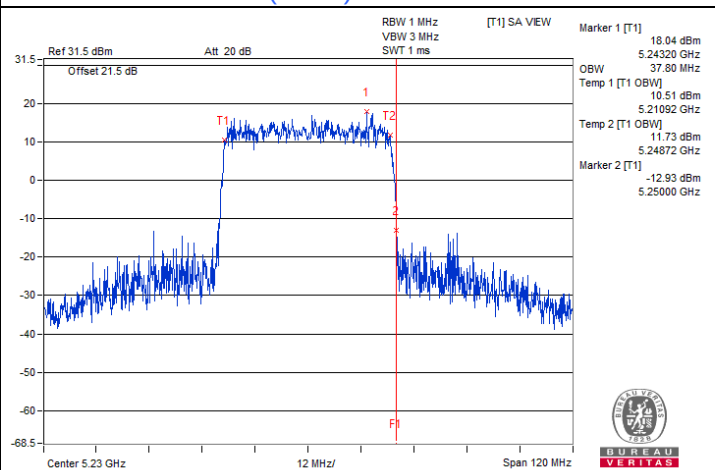
802.11ax (HE20) / Chain 2 : CH 48



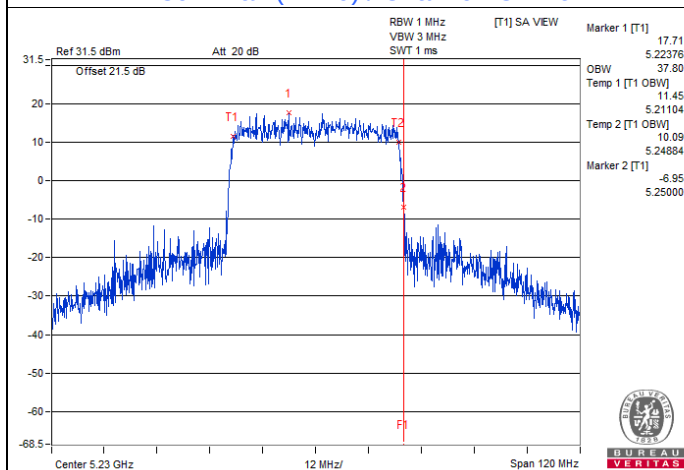
802.11ax (HE20) / Chain 3 : CH 48



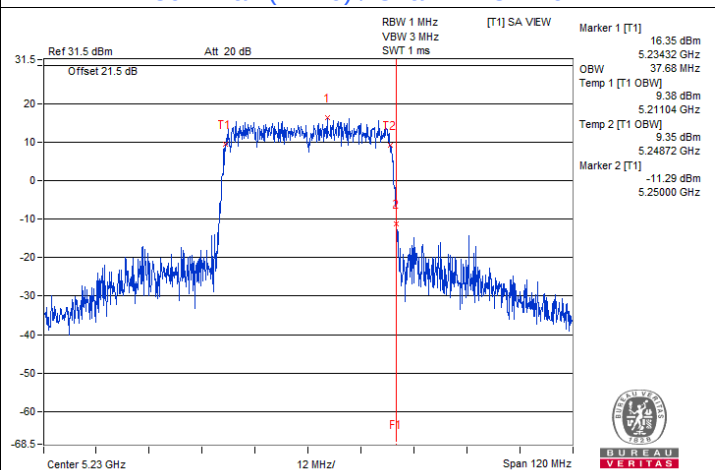
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46

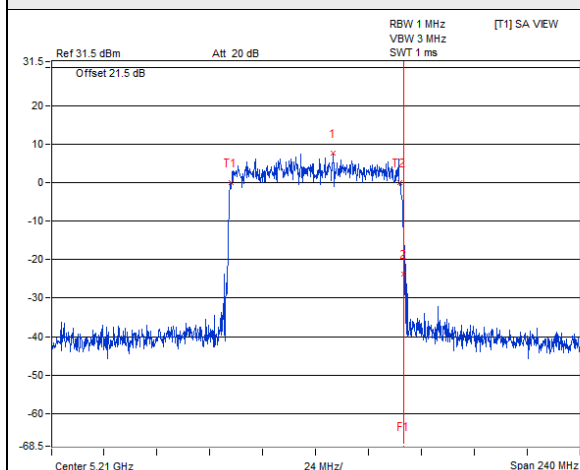


802.11ax (HE40) / Chain 2 : CH 46

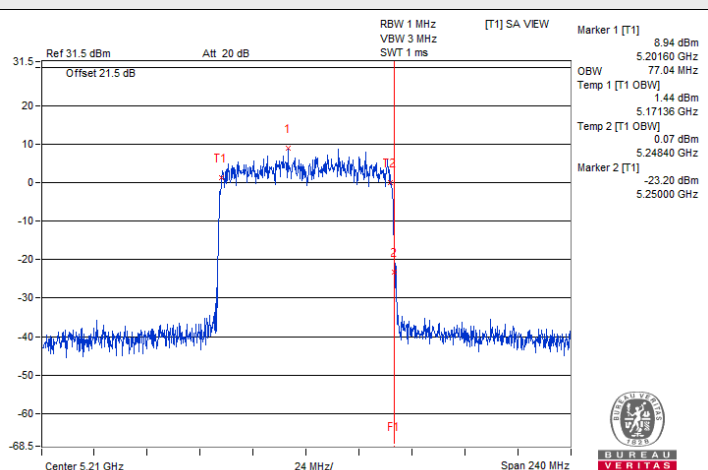


802.11ax (HE40) / Chain 3 : CH 46

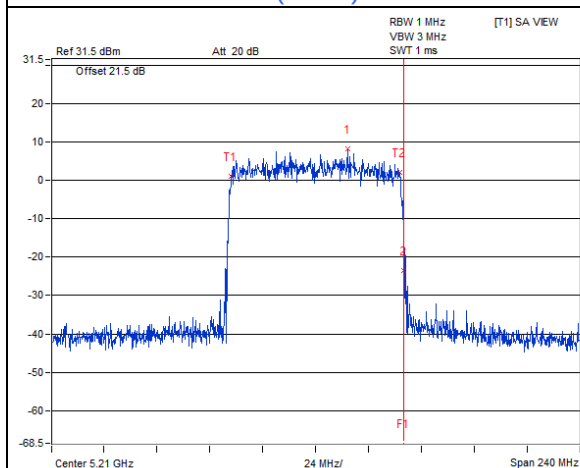
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)



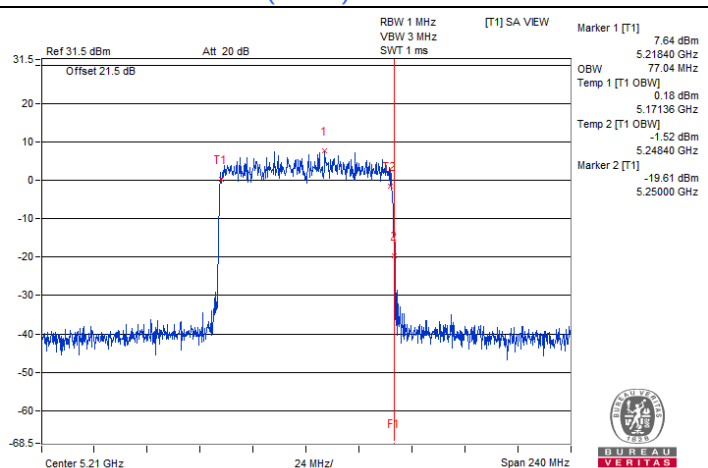
802.11ax (HE80) / Chain 0 : CH 42



802.11ax (HE80) / Chain 1 : CH 42

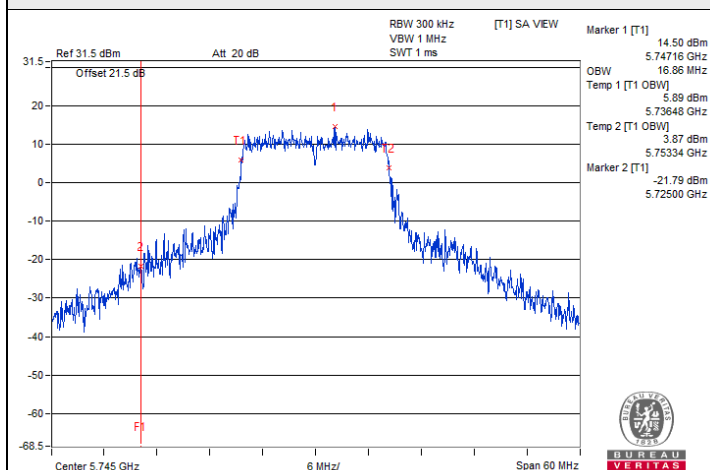


802.11ax (HE80) / Chain 2 : CH 42

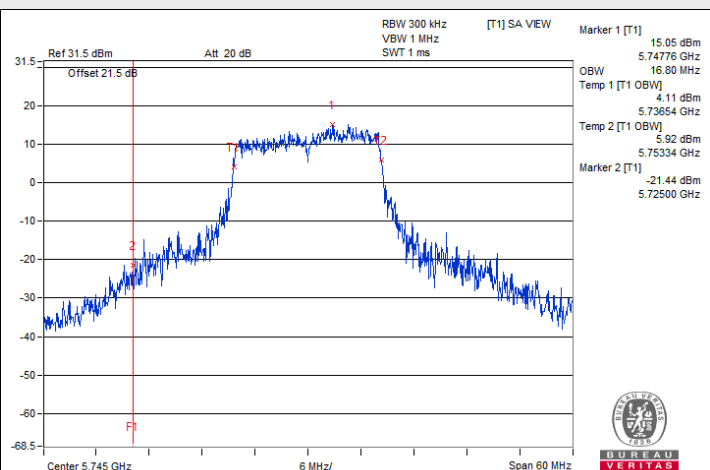


802.11ax (HE80) / Chain 3 : CH 42

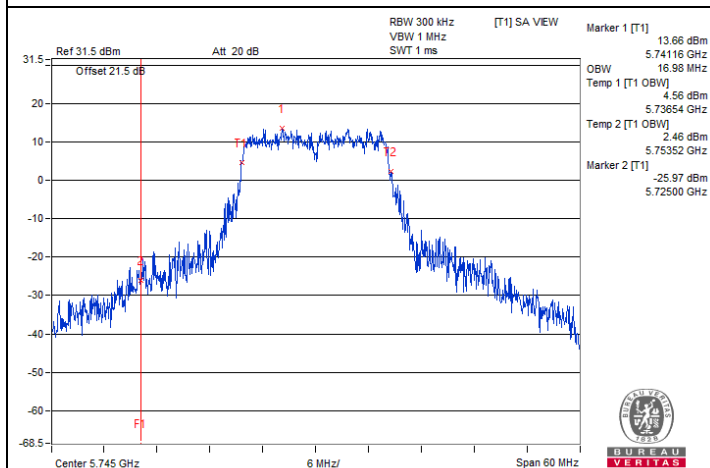
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)



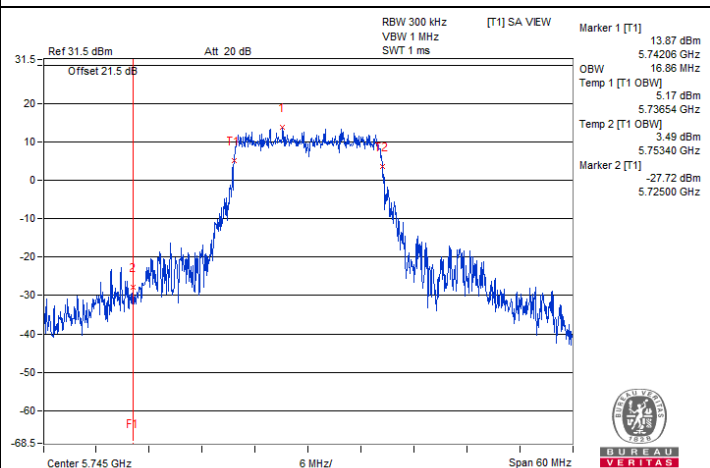
802.11a / Chain 0 : CH 149



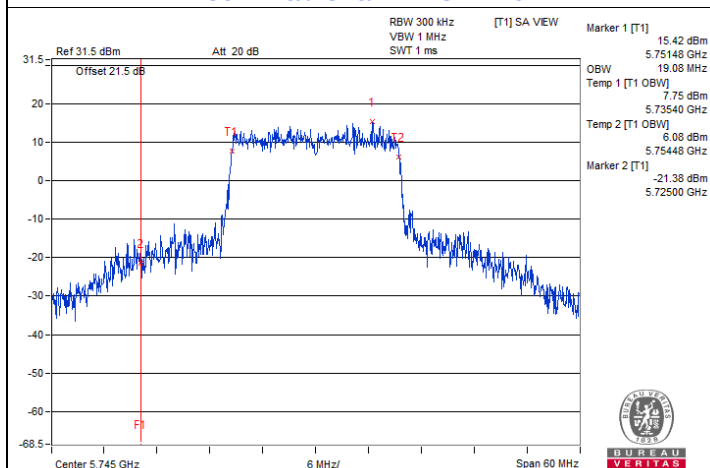
802.11a / Chain 1 : CH 149



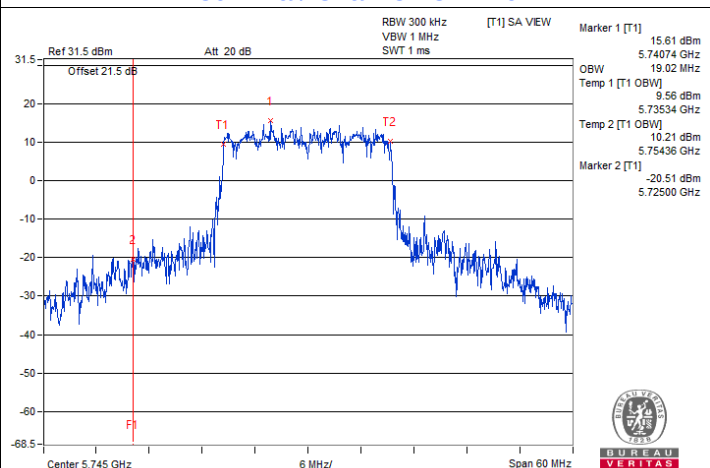
802.11a / Chain 2 : CH 149



802.11a / Chain 3 : CH 149

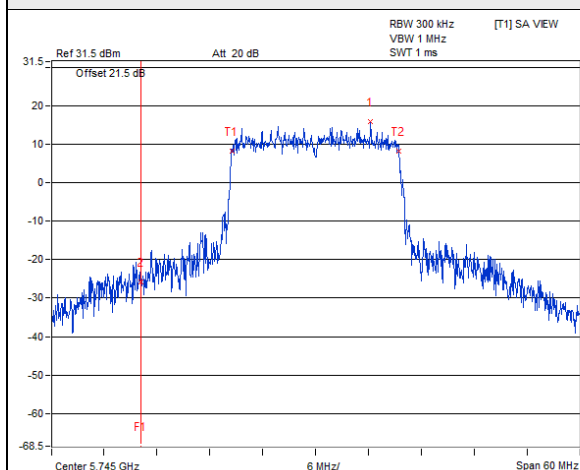


802.11ax (HE20) / Chain 0 : CH 149

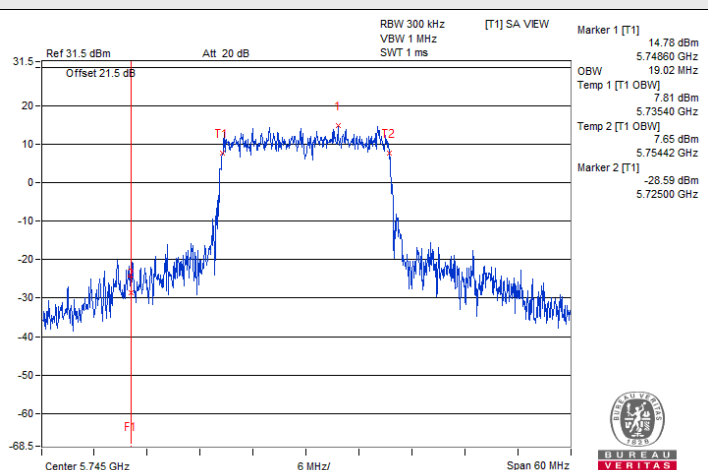


802.11ax (HE20) / Chain 1 : CH 149

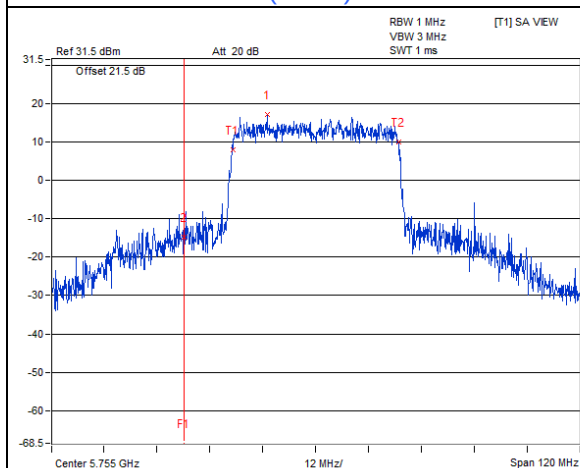
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)



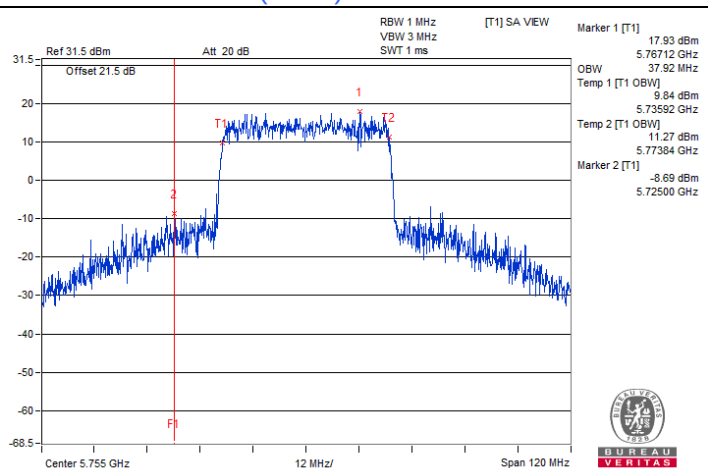
802.11ax (HE20) / Chain 2 : CH 149



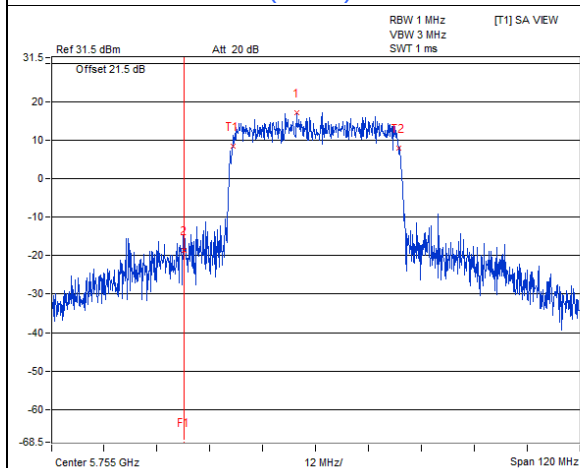
802.11ax (HE20) / Chain 3 : CH 149



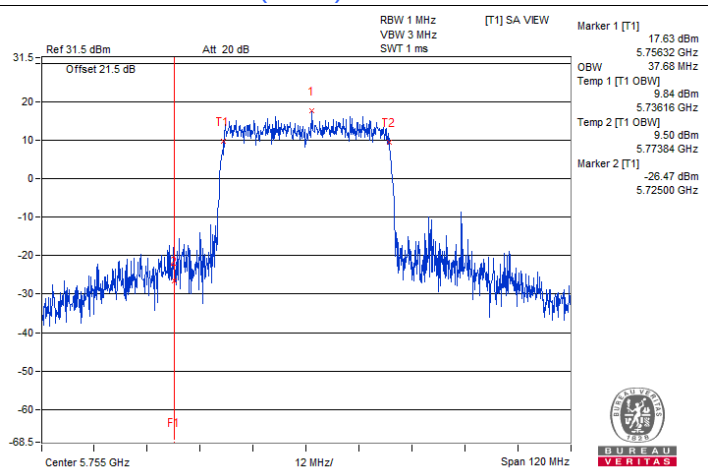
802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE40) / Chain 1 : CH 151

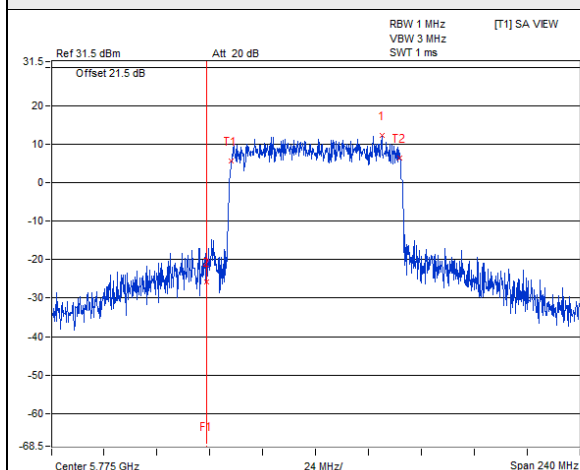


802.11ax (HE40) / Chain 2 : CH 151

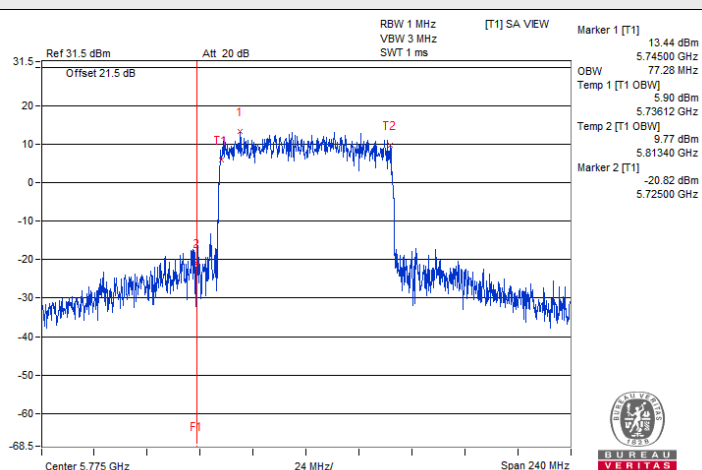


802.11ax (HE40) / Chain 3 : CH 151

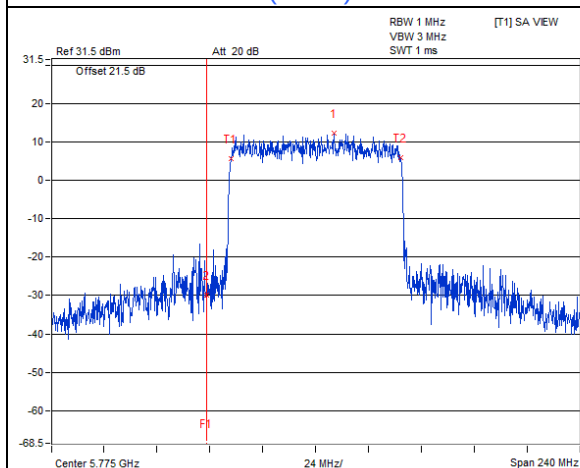
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)



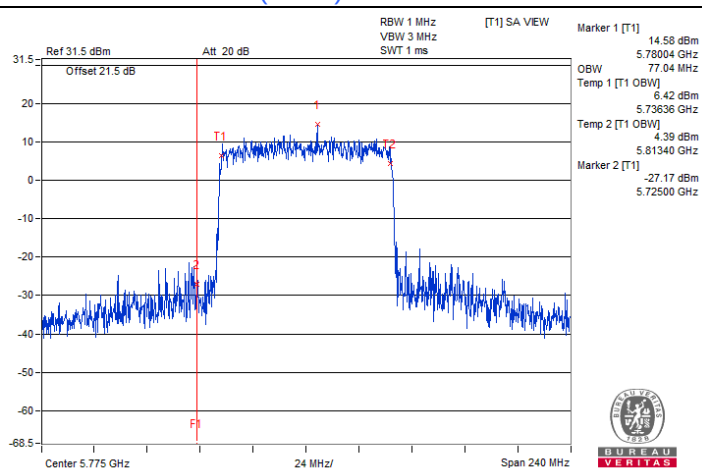
802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155



802.11ax (HE80) / Chain 2 : CH 155



802.11ax (HE80) / Chain 3 : CH 155

7.6 Frequency Stability

Mode A

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 Temp.									
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	5180.0262	Pass	5180.025	Pass	5180.0219	Pass	5180.0261	Pass
30	120	5180.0125	Pass	5180.0083	Pass	5180.0118	Pass	5180.0118	Pass
20	120	5180.0031	Pass	5180.002	Pass	5180.0043	Pass	5180.0055	Pass
10	120	5179.9777	Pass	5179.9743	Pass	5179.978	Pass	5179.9784	Pass
0	120	5179.9895	Pass	5179.9892	Pass	5179.9938	Pass	5179.9915	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	5179.9686	Pass	5179.9695	Pass	5179.9696	Pass	5179.9694	Pass
	120	5179.9777	Pass	5179.9743	Pass	5179.978	Pass	5179.9784	Pass
	102	5179.9862	Pass	5179.9855	Pass	5179.9862	Pass	5179.9841	Pass

7.7 AC Power Conducted Emissions

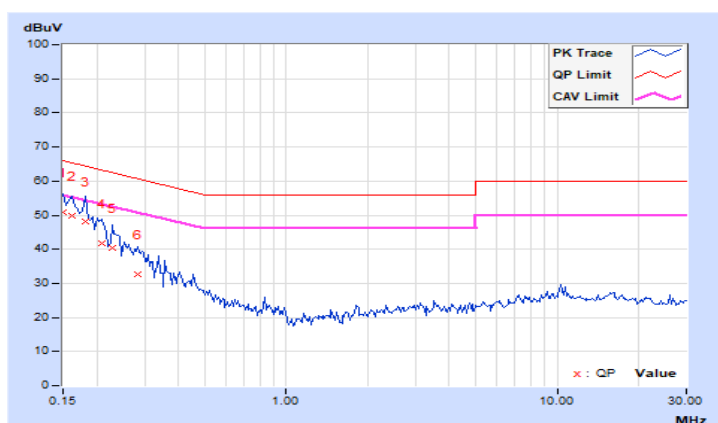
Mode A

RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

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	0.15013	10.05	40.91	23.62	50.96	33.67	65.99	55.99	-15.03	-22.32
2	0.16179	10.05	39.67	22.69	49.72	32.74	65.37	55.37	-15.65	-22.63
3	0.18134	10.05	37.96	21.99	48.01	32.04	64.42	54.42	-16.41	-22.38
4	0.20851	10.05	31.70	15.73	41.75	25.78	63.26	53.26	-21.51	-27.48
5	0.22823	10.05	30.47	14.93	40.52	24.98	62.51	52.51	-21.99	-27.53
6	0.28289	10.06	22.58	7.62	32.64	17.68	60.73	50.73	-28.09	-33.05

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

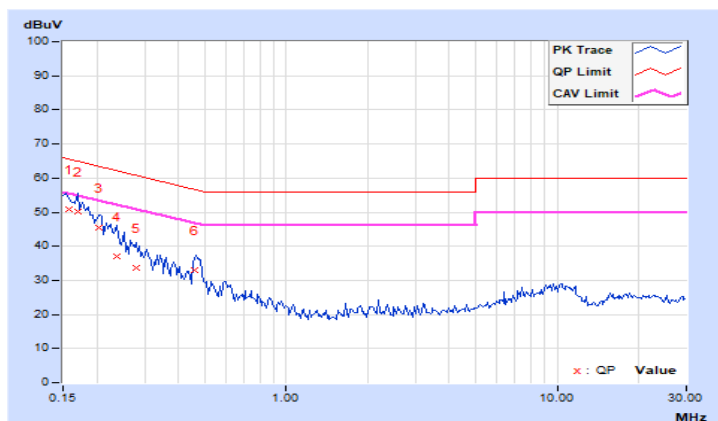


RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Ryan Du		

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	0.15794	10.02	40.82	24.03	50.84	34.05	65.57	55.57	-14.73	-21.52
2	0.16968	10.02	40.06	21.13	50.08	31.15	64.98	54.98	-14.90	-23.83
3	0.20477	10.03	35.45	18.75	45.48	28.78	63.41	53.41	-17.93	-24.63
4	0.23581	10.03	27.11	10.92	37.14	20.95	62.24	52.24	-25.10	-31.29
5	0.27884	10.03	23.49	8.78	33.52	18.81	60.85	50.85	-27.33	-32.04
6	0.45867	10.04	23.08	18.34	33.12	28.38	56.72	46.72	-23.60	-18.34

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

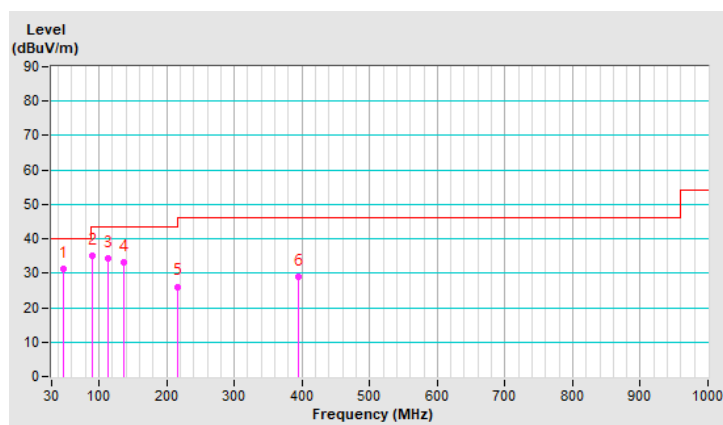
Mode A

RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	48.24	31.2 QP	40.0	-8.8	2.00 H	28	39.4	-8.2
2	90.34	35.0 QP	43.5	-8.5	2.00 H	143	49.1	-14.1
3	112.73	34.3 QP	43.5	-9.2	1.50 H	258	45.0	-10.7
4	135.99	33.0 QP	43.5	-10.5	2.00 H	169	41.7	-8.7
5	215.52	26.1 QP	43.5	-17.4	2.00 H	152	37.2	-11.1
6	395.57	29.1 QP	46.0	-16.9	3.00 H	143	34.5	-5.4

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 of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

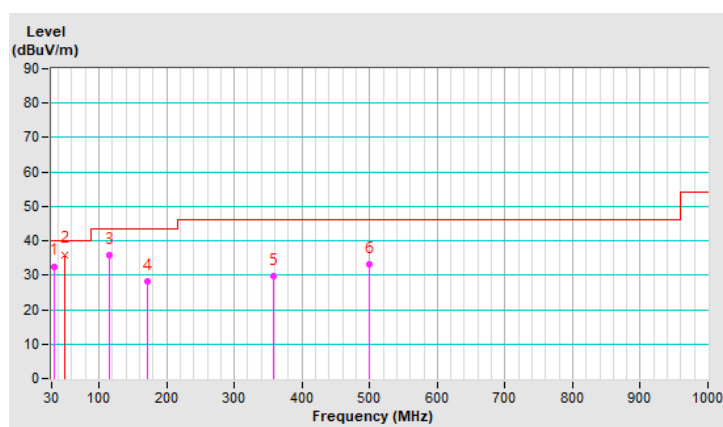


RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	33.58	32.6 QP	40.0	-7.4	1.00 V	256	41.9	-9.3
2	50.01	36.0 QP	40.0	-4.0	1.00 V	49	44.2	-8.2
3	116.04	35.9 QP	43.5	-7.6	1.50 V	253	46.3	-10.4
4	171.73	28.2 QP	43.5	-15.3	1.50 V	187	37.2	-9.0
5	357.42	29.6 QP	46.0	-16.4	2.00 V	259	35.9	-6.3
6	500.32	33.0 QP	46.0	-13.0	1.00 V	42	35.9	-2.9

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 of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



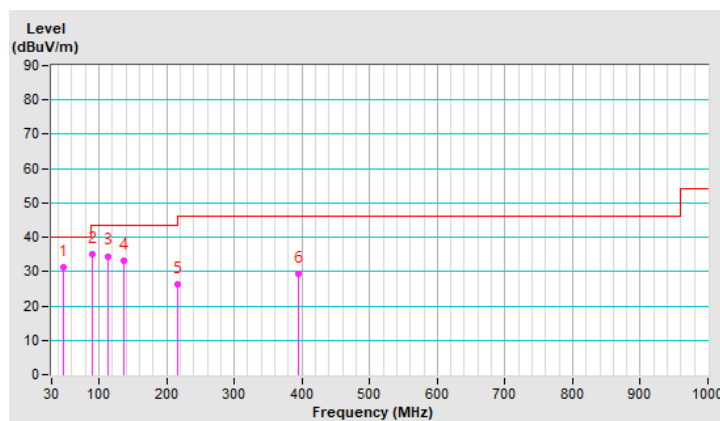
Mode B

RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

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	48.21	31.1 QP	40.0	-8.9	2.00 H	38	39.3	-8.2
2	90.37	34.9 QP	43.5	-8.6	2.00 H	163	49.0	-14.1
3	112.76	34.5 QP	43.5	-9.0	1.50 H	228	45.2	-10.7
4	136.04	33.2 QP	43.5	-10.3	2.00 H	143	41.9	-8.7
5	215.56	26.3 QP	43.5	-17.2	2.00 H	139	37.4	-11.1
6	395.62	29.2 QP	46.0	-16.8	3.00 H	128	34.6	-5.4

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 of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

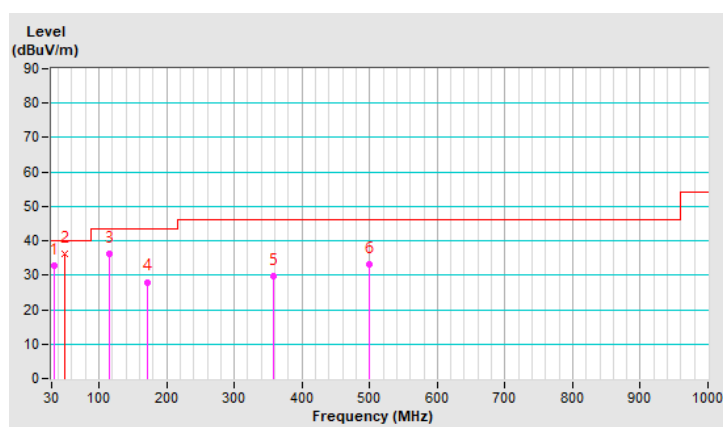


RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20°C, 70% RH
Tested By	Ryan Du		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	33.53	32.7 QP	40.0	-7.3	1.00 V	229	42.0	-9.3
2	50.02	36.2 QP	40.0	-3.8	1.00 V	32	44.4	-8.2
3	116.02	36.1 QP	43.5	-7.4	1.50 V	241	46.5	-10.4
4	171.71	28.0 QP	43.5	-15.5	1.50 V	147	37.0	-9.0
5	357.38	29.8 QP	46.0	-16.2	2.00 V	268	36.1	-6.3
6	500.28	33.2 QP	46.0	-12.8	1.00 V	57	36.1	-2.9

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 of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



7.9 Unwanted Emissions above 1 GHz

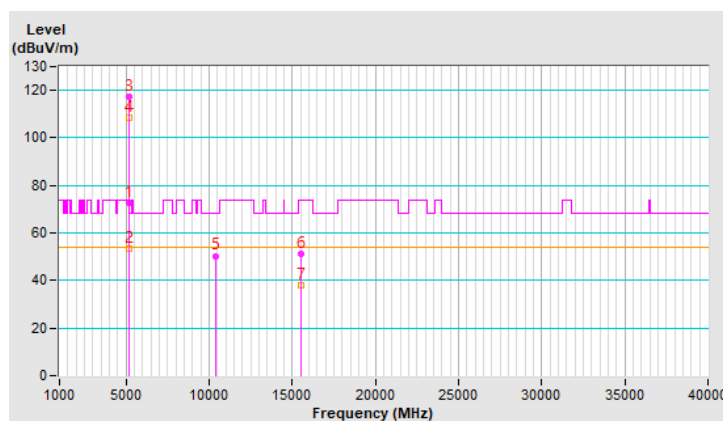
Mode A

RF Mode	TX 802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	5148.07	72.8 PK	74.0	-1.2	1.26 H	52	68.0	4.8
2	5148.07	53.3 AV	54.0	-0.7	1.26 H	52	48.5	4.8
3	*5180.00	117.1 PK			1.26 H	52	112.4	4.7
4	*5180.00	108.5 AV			1.26 H	52	103.8	4.7
5	#10360.00	50.4 PK	68.2	-17.8	1.79 H	191	36.2	14.2
6	15540.00	51.4 PK	74.0	-22.6	1.47 H	145	37.0	14.4
7	15540.00	38.0 AV	54.0	-16.0	1.47 H	145	23.6	14.4

Remarks:

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

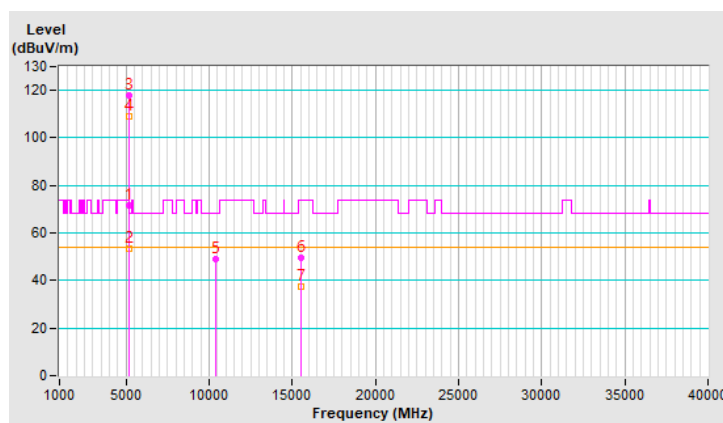


RF Mode	TX 802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	71.5 PK	74.0	-2.5	1.25 V	179	66.7	4.8
2	5150.00	53.5 AV	54.0	-0.5	1.25 V	179	48.7	4.8
3	*5180.00	117.9 PK			1.25 V	179	113.2	4.7
4	*5180.00	109.2 AV			1.25 V	179	104.5	4.7
5	#10360.00	49.2 PK	68.2	-19.0	1.83 V	240	35.0	14.2
6	15540.00	49.7 PK	74.0	-24.3	1.91 V	240	35.3	14.4
7	15540.00	37.4 AV	54.0	-16.6	1.91 V	240	23.0	14.4

Remarks:

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

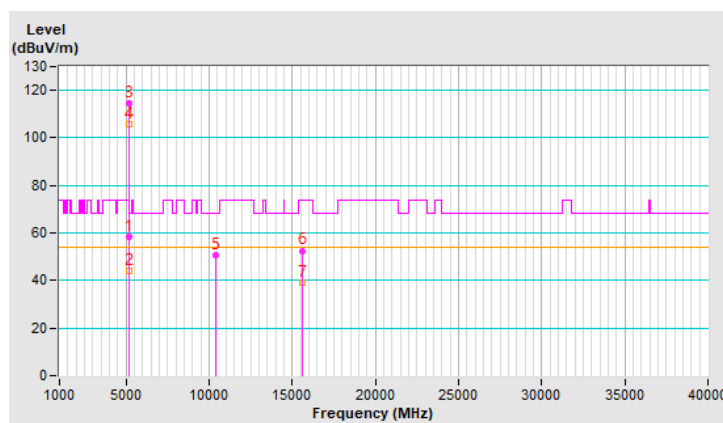


RF Mode	TX 802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.5 PK	74.0	-15.5	1.23 H	24	53.7	4.8
2	5150.00	43.9 AV	54.0	-10.1	1.23 H	24	39.1	4.8
3	*5200.00	114.8 PK			1.23 H	24	110.2	4.6
4	*5200.00	105.9 AV			1.23 H	24	101.3	4.6
5	#10400.00	50.7 PK	68.2	-17.5	1.72 H	170	36.5	14.2
6	15600.00	52.6 PK	74.0	-21.4	1.56 H	153	37.8	14.8
7	15600.00	39.0 AV	54.0	-15.0	1.56 H	153	24.2	14.8

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.

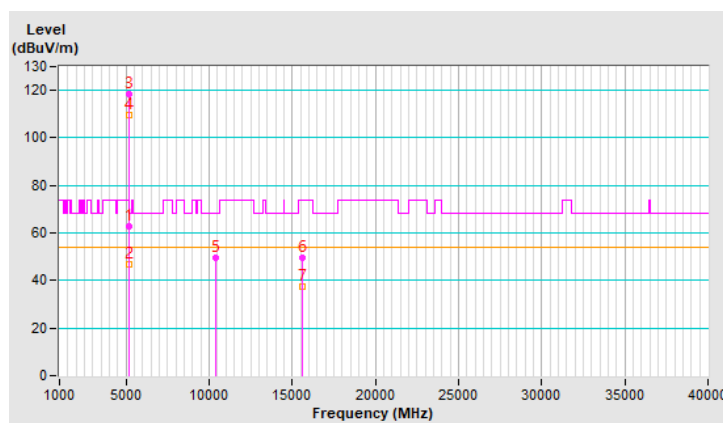


RF Mode	TX 802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.0 PK	74.0	-11.0	1.45 V	290	58.2	4.8
2	5150.00	46.9 AV	54.0	-7.1	1.45 V	290	42.1	4.8
3	*5200.00	118.5 PK			1.45 V	290	113.9	4.6
4	*5200.00	109.8 AV			1.45 V	290	105.2	4.6
5	#10400.00	49.8 PK	68.2	-18.4	1.72 V	248	35.6	14.2
6	15600.00	49.7 PK	74.0	-24.3	1.86 V	228	34.9	14.8
7	15600.00	37.4 AV	54.0	-16.6	1.86 V	228	22.6	14.8

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.

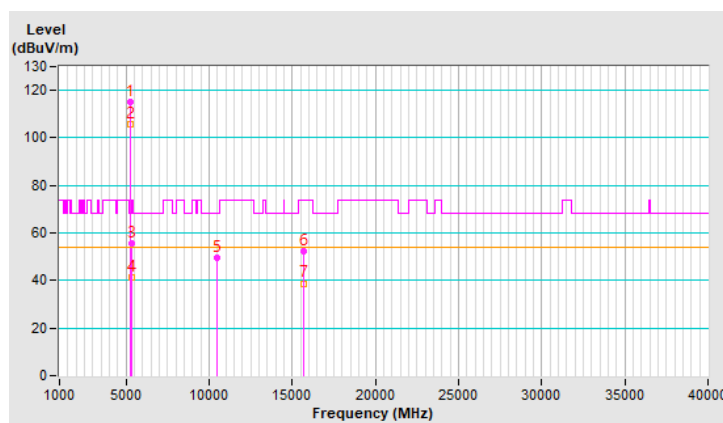


RF Mode	TX 802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	115.0 PK			1.34 H	30	110.6	4.4
2	*5240.00	105.6 AV			1.34 H	30	101.2	4.4
3	5350.00	55.4 PK	74.0	-18.6	1.34 H	30	50.8	4.6
4	5350.00	41.5 AV	54.0	-12.5	1.34 H	30	36.9	4.6
5	#10480.00	49.5 PK	68.2	-18.7	1.70 H	180	35.1	14.4
6	15720.00	52.4 PK	74.0	-21.6	1.59 H	178	38.9	13.5
7	15720.00	38.8 AV	54.0	-15.2	1.59 H	178	25.3	13.5

Remarks:

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

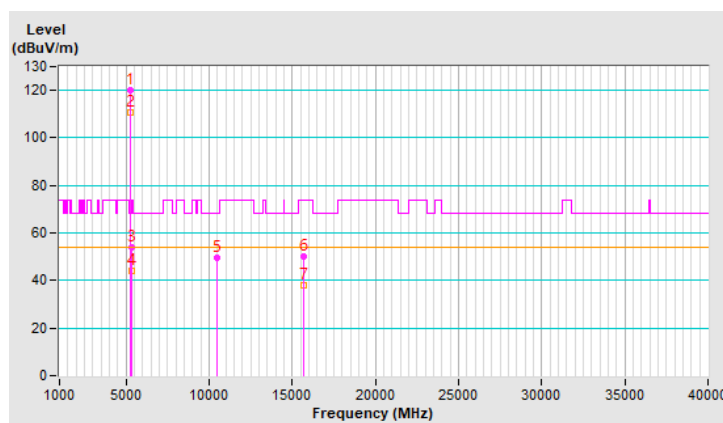


RF Mode	TX 802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	120.2 PK			1.44 V	274	115.8	4.4
2	*5240.00	110.8 AV			1.44 V	274	106.4	4.4
3	5350.00	54.0 PK	74.0	-20.0	1.44 V	274	49.4	4.6
4	5350.00	43.9 AV	54.0	-10.1	1.44 V	274	39.3	4.6
5	#10480.00	49.5 PK	68.2	-18.7	1.82 V	259	35.1	14.4
6	15720.00	50.1 PK	74.0	-23.9	1.85 V	266	36.6	13.5
7	15720.00	38.1 AV	54.0	-15.9	1.85 V	266	24.6	13.5

Remarks:

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

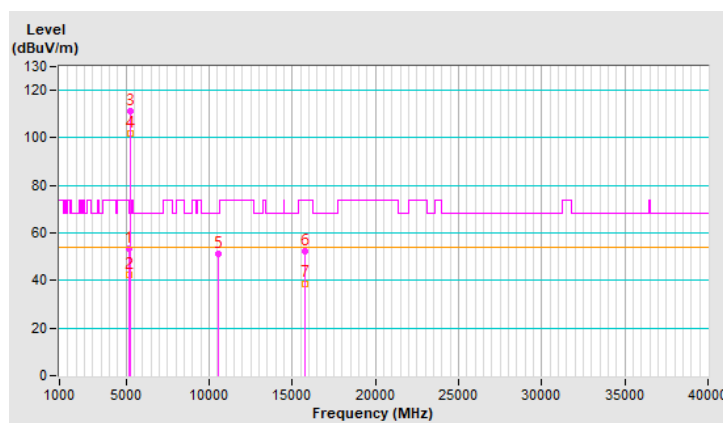


RF Mode	TX 802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	53.3 PK	74.0	-20.7	1.64 H	66	48.5	4.8
2	5150.00	42.6 AV	54.0	-11.4	1.64 H	66	37.8	4.8
3	*5260.00	111.3 PK			1.64 H	66	106.9	4.4
4	*5260.00	102.0 AV			1.64 H	66	97.6	4.4
5	#10520.00	51.0 PK	68.2	-17.2	1.74 H	167	36.6	14.4
6	15780.00	52.5 PK	74.0	-21.5	1.52 H	138	38.9	13.6
7	15780.00	38.8 AV	54.0	-15.2	1.52 H	138	25.2	13.6

Remarks:

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

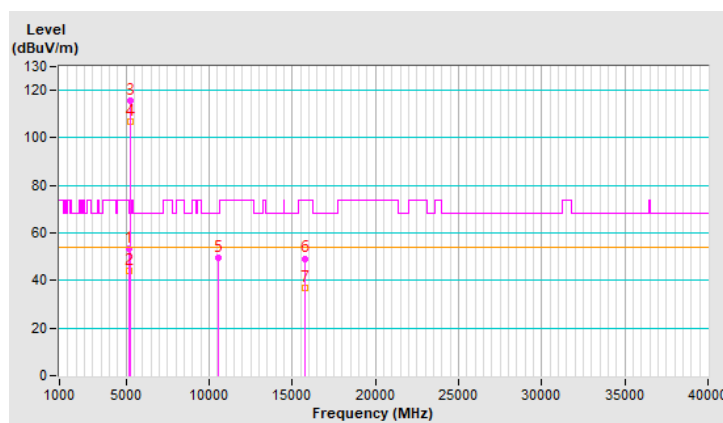


RF Mode	TX 802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	53.5 PK	74.0	-20.5	1.69 V	285	48.7	4.8
2	5150.00	44.0 AV	54.0	-10.0	1.69 V	285	39.2	4.8
3	*5260.00	115.8 PK			1.69 V	285	111.4	4.4
4	*5260.00	106.6 AV			1.69 V	285	102.2	4.4
5	#10520.00	49.7 PK	68.2	-18.5	1.69 V	264	35.3	14.4
6	15780.00	49.3 PK	74.0	-24.7	1.93 V	236	35.7	13.6
7	15780.00	36.9 AV	54.0	-17.1	1.93 V	236	23.3	13.6

Remarks:

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

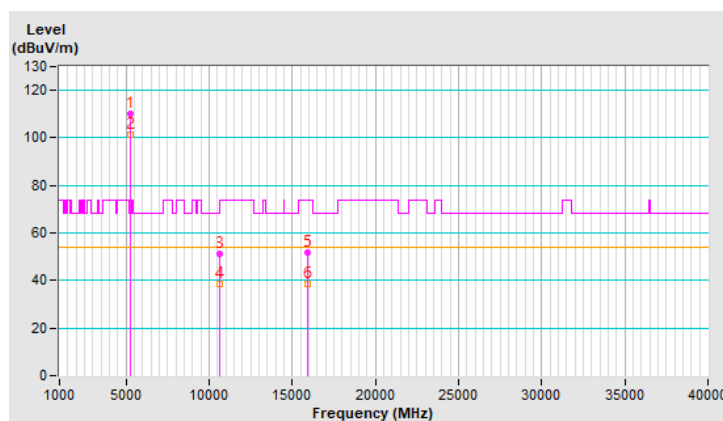


RF Mode	TX 802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	110.4 PK			1.60 H	74	106.1	4.3
2	*5300.00	101.4 AV			1.60 H	74	97.1	4.3
3	10600.00	51.3 PK	74.0	-22.7	1.77 H	209	37.1	14.2
4	10600.00	38.6 AV	54.0	-15.4	1.77 H	209	24.4	14.2
5	15900.00	51.8 PK	74.0	-22.2	1.50 H	173	38.0	13.8
6	15900.00	38.4 AV	54.0	-15.6	1.50 H	173	24.6	13.8

Remarks:

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

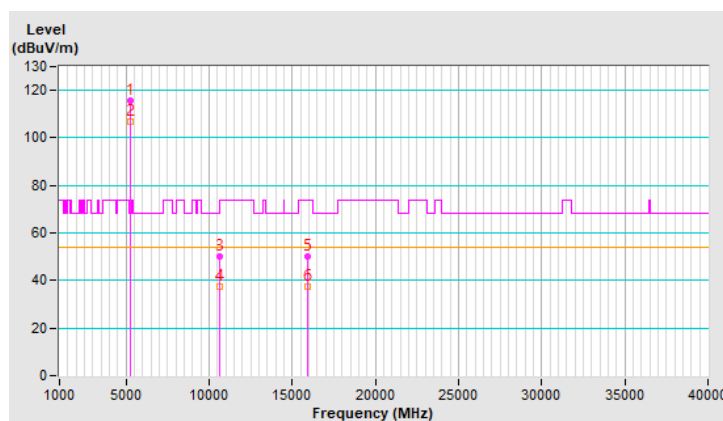


RF Mode	TX 802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	115.6 PK			1.62 V	279	111.3	4.3
2	*5300.00	106.7 AV			1.62 V	279	102.4	4.3
3	10600.00	50.1 PK	74.0	-23.9	1.76 V	251	35.9	14.2
4	10600.00	37.2 AV	54.0	-16.8	1.76 V	251	23.0	14.2
5	15900.00	50.0 PK	74.0	-24.0	1.85 V	238	36.2	13.8
6	15900.00	37.5 AV	54.0	-16.5	1.85 V	238	23.7	13.8

Remarks:

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

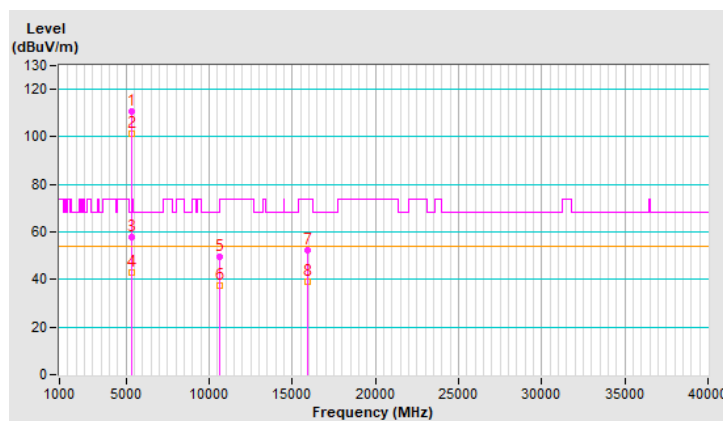


RF Mode	TX 802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	110.8 PK			1.52 H	37	106.3	4.5
2	*5320.00	101.5 AV			1.52 H	37	97.0	4.5
3	5350.00	58.0 PK	74.0	-16.0	1.52 H	37	53.4	4.6
4	5350.00	43.0 AV	54.0	-11.0	1.52 H	37	38.4	4.6
5	10640.00	49.7 PK	74.0	-24.3	1.74 H	172	35.4	14.3
6	10640.00	37.4 AV	54.0	-16.6	1.74 H	172	23.1	14.3
7	15960.00	52.2 PK	74.0	-21.8	1.63 H	168	38.3	13.9
8	15960.00	39.1 AV	54.0	-14.9	1.63 H	168	25.2	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.

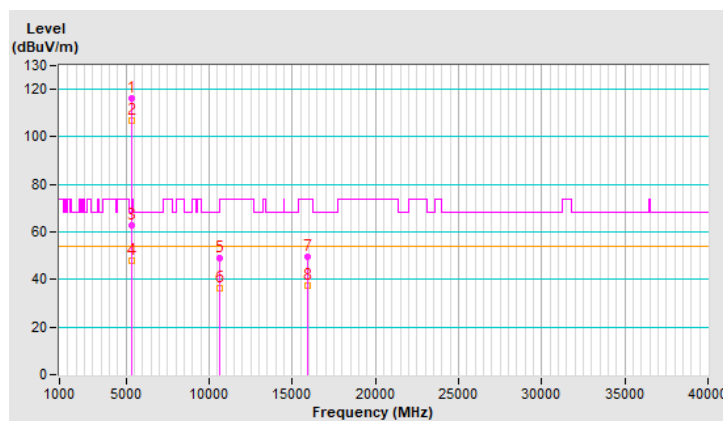


RF Mode	TX 802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	116.2 PK			1.59 V	262	111.7	4.5
2	*5320.00	106.8 AV			1.59 V	262	102.3	4.5
3	5350.00	63.0 PK	74.0	-11.0	1.59 V	262	58.4	4.6
4	5350.00	48.1 AV	54.0	-5.9	1.59 V	262	43.5	4.6
5	10640.00	48.9 PK	74.0	-25.1	1.76 V	250	34.6	14.3
6	10640.00	36.2 AV	54.0	-17.8	1.76 V	250	21.9	14.3
7	15960.00	49.7 PK	74.0	-24.3	2.00 V	229	35.8	13.9
8	15960.00	37.5 AV	54.0	-16.5	2.00 V	229	23.6	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.

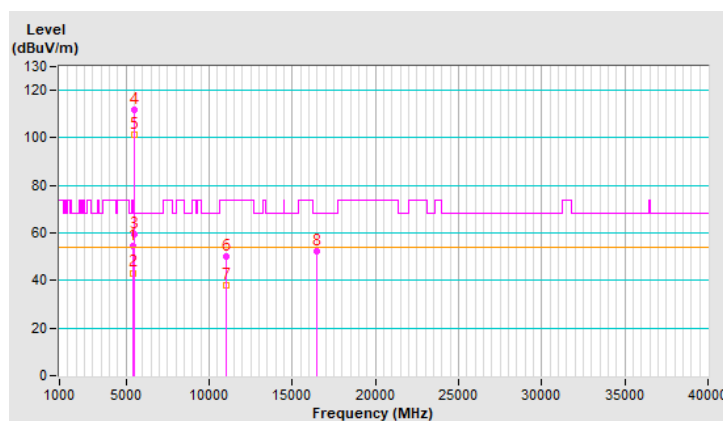


RF Mode	TX 802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	54.4 PK	74.0	-19.6	1.63 H	70	49.6	4.8
2	5460.00	43.2 AV	54.0	-10.8	1.63 H	70	38.4	4.8
3	#5470.00	59.6 PK	68.2	-8.6	1.63 H	70	54.8	4.8
4	*5500.00	111.7 PK			1.63 H	70	106.9	4.8
5	*5500.00	101.3 AV			1.63 H	70	96.5	4.8
6	11000.00	50.1 PK	74.0	-23.9	1.77 H	172	35.3	14.8
7	11000.00	37.8 AV	54.0	-16.2	1.77 H	172	23.0	14.8
8	#16500.00	52.3 PK	68.2	-15.9	1.58 H	159	37.0	15.3

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.

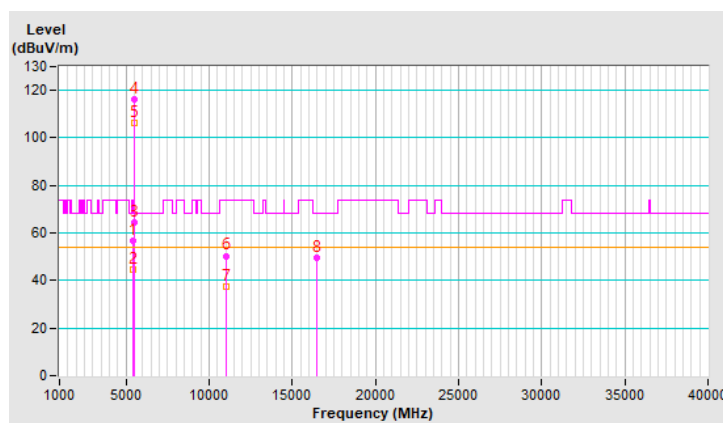


RF Mode	TX 802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	56.7 PK	74.0	-17.3	1.59 V	290	51.9	4.8
2	5460.00	44.5 AV	54.0	-9.5	1.59 V	290	39.7	4.8
3	#5470.00	64.5 PK	68.2	-3.7	1.59 V	290	59.7	4.8
4	*5500.00	116.3 PK			1.59 V	290	111.5	4.8
5	*5500.00	106.5 AV			1.59 V	290	101.7	4.8
6	11000.00	50.4 PK	74.0	-23.6	1.74 V	264	35.6	14.8
7	11000.00	37.6 AV	54.0	-16.4	1.74 V	264	22.8	14.8
8	#16500.00	49.5 PK	68.2	-18.7	1.88 V	238	34.2	15.3

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.

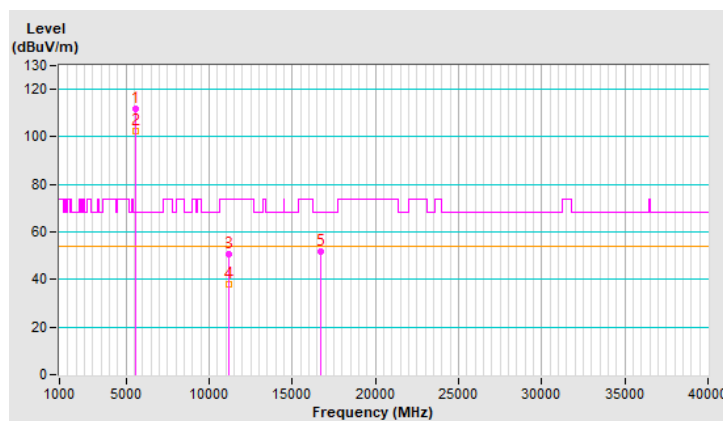


RF Mode	TX 802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	111.7 PK			1.54 H	71	106.9	4.8
2	*5580.00	102.2 AV			1.54 H	71	97.4	4.8
3	11160.00	50.8 PK	74.0	-23.2	1.62 H	175	36.2	14.6
4	11160.00	38.0 AV	54.0	-16.0	1.62 H	175	23.4	14.6
5	#16740.00	52.0 PK	68.2	-16.2	1.58 H	138	35.2	16.8

Remarks:

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

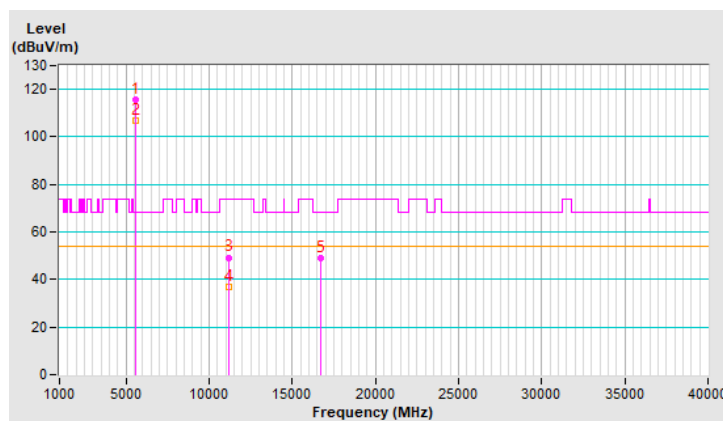


RF Mode	TX 802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	115.9 PK			1.64 V	258	111.1	4.8
2	*5580.00	107.0 AV			1.64 V	258	102.2	4.8
3	11160.00	49.3 PK	74.0	-24.7	1.64 V	276	34.7	14.6
4	11160.00	37.1 AV	54.0	-16.9	1.64 V	276	22.5	14.6
5	#16740.00	48.8 PK	68.2	-19.4	1.80 V	245	32.0	16.8

Remarks:

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

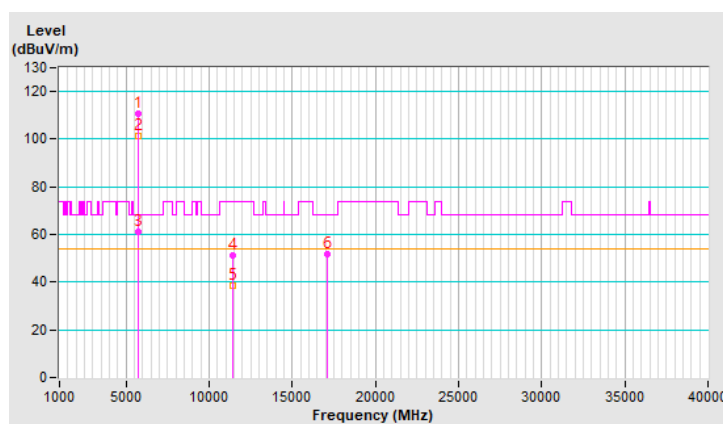


RF Mode	TX 802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	110.5 PK			1.58 H	59	105.8	4.7
2	*5700.00	101.2 AV			1.58 H	59	96.5	4.7
3	#5725.00	61.2 PK	68.2	-7.0	1.58 H	59	56.3	4.9
4	11400.00	51.2 PK	74.0	-22.8	1.69 H	177	35.8	15.4
5	11400.00	38.4 AV	54.0	-15.6	1.69 H	177	23.0	15.4
6	#17100.00	51.9 PK	68.2	-16.3	1.62 H	167	33.4	18.5

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.

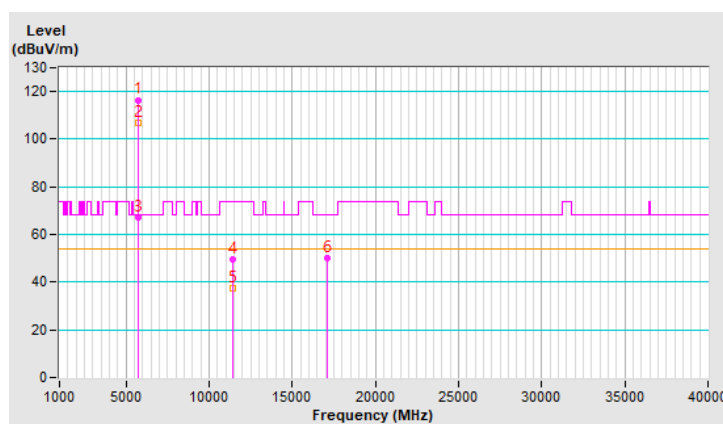


RF Mode	TX 802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	116.5 PK			1.67 V	290	111.8	4.7
2	*5700.00	106.6 AV			1.67 V	290	101.9	4.7
3	#5725.00	67.4 PK	68.2	-0.8	1.67 V	290	62.5	4.9
4	11400.00	49.8 PK	74.0	-24.2	1.74 V	254	34.4	15.4
5	11400.00	37.4 AV	54.0	-16.6	1.74 V	254	22.0	15.4
6	#17100.00	50.1 PK	68.2	-18.1	1.90 V	221	31.6	18.5

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.

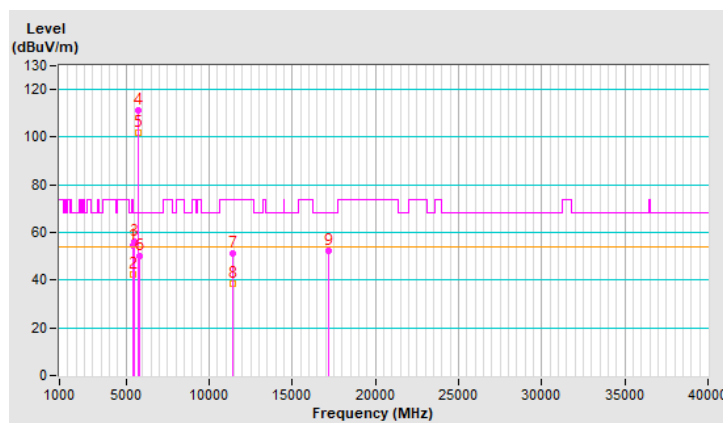


RF Mode	TX 802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	54.6 PK	74.0	-19.4	1.58 H	55	49.8	4.8
2	5460.00	42.2 AV	54.0	-11.8	1.58 H	55	37.4	4.8
3	#5470.00	56.2 PK	68.2	-12.0	1.58 H	55	51.4	4.8
4	*5720.00	111.3 PK			1.58 H	55	106.5	4.8
5	*5720.00	102.0 AV			1.58 H	55	97.2	4.8
6	#5850.00	50.1 PK	68.2	-18.1	1.58 H	55	44.8	5.3
7	11440.00	51.2 PK	74.0	-22.8	1.67 H	163	35.9	15.3
8	11440.00	38.6 AV	54.0	-15.4	1.67 H	163	23.3	15.3
9	#17160.00	52.3 PK	68.2	-15.9	1.61 H	142	34.0	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.

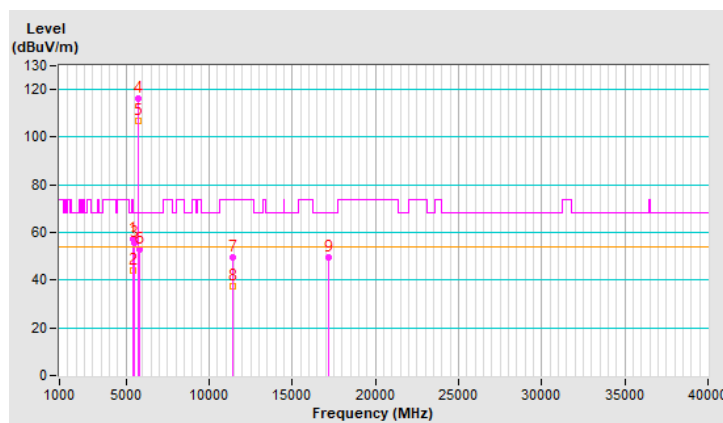


RF Mode	TX 802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	57.3 PK	74.0	-16.7	1.65 V	264	52.5	4.8
2	5460.00	43.9 AV	54.0	-10.1	1.65 V	264	39.1	4.8
3	#5470.00	55.8 PK	68.2	-12.4	1.65 V	264	51.0	4.8
4	*5720.00	116.4 PK			1.65 V	264	111.6	4.8
5	*5720.00	106.9 AV			1.65 V	264	102.1	4.8
6	#5850.00	53.1 PK	68.2	-15.1	1.65 V	264	47.8	5.3
7	11440.00	49.4 PK	74.0	-24.6	1.76 V	268	34.1	15.3
8	11440.00	37.2 AV	54.0	-16.8	1.76 V	268	21.9	15.3
9	#17160.00	49.8 PK	68.2	-18.4	1.83 V	252	31.5	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.

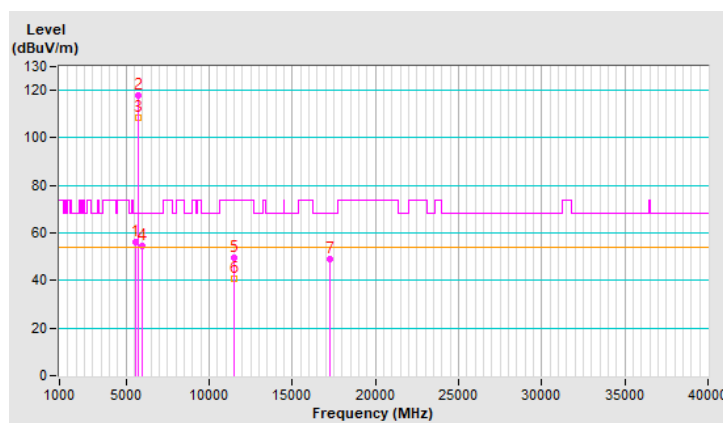


RF Mode	TX 802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	#5608.73	56.2 PK	68.2	-12.0	1.71 H	84	51.3	4.9
2	*5745.00	118.1 PK			1.71 H	84	113.0	5.1
3	*5745.00	108.6 AV			1.71 H	84	103.5	5.1
4	#5959.91	54.3 PK	68.2	-13.9	1.71 H	84	48.8	5.5
5	11490.00	49.7 PK	74.0	-24.3	1.89 H	152	34.6	15.1
6	11490.00	40.6 AV	54.0	-13.4	1.89 H	152	25.5	15.1
7	#17235.00	49.1 PK	68.2	-19.1	1.47 H	175	30.8	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.

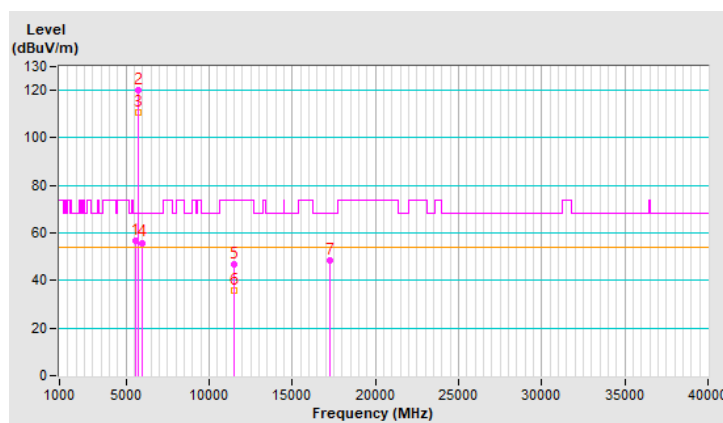


RF Mode	TX 802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5617.09	56.8 PK	68.2	-11.4	1.68 V	236	51.9	4.9
2	*5745.00	120.0 PK			1.68 V	236	114.9	5.1
3	*5745.00	110.7 AV			1.68 V	236	105.6	5.1
4	#5946.08	55.9 PK	68.2	-12.3	1.68 V	236	50.4	5.5
5	11490.00	47.0 PK	74.0	-27.0	1.99 V	235	31.9	15.1
6	11490.00	35.8 AV	54.0	-18.2	1.99 V	235	20.7	15.1
7	#17235.00	48.6 PK	68.2	-19.6	1.71 V	286	30.3	18.3

Remarks:

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

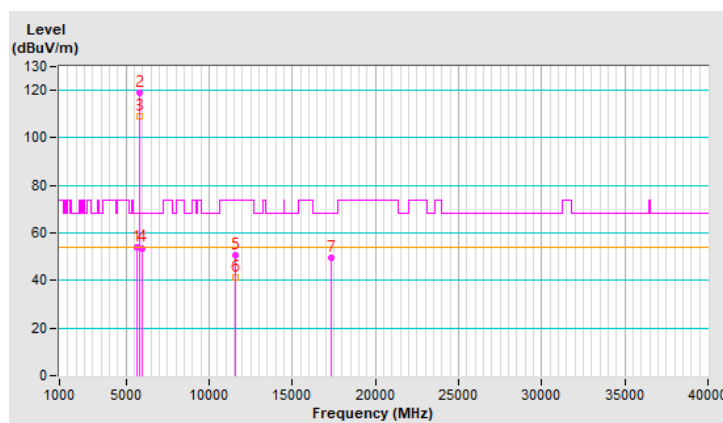


RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.63	54.0 PK	68.2	-14.2	1.77 H	96	49.1	4.9
2	*5785.00	119.0 PK			1.77 H	96	113.8	5.2
3	*5785.00	109.1 AV			1.77 H	96	103.9	5.2
4	#5958.18	53.7 PK	68.2	-14.5	1.77 H	96	48.2	5.5
5	11570.00	50.8 PK	74.0	-23.2	1.91 H	167	35.7	15.1
6	11570.00	41.2 AV	54.0	-12.8	1.91 H	167	26.1	15.1
7	#17355.00	49.4 PK	68.2	-18.8	1.56 H	183	30.5	18.9

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.

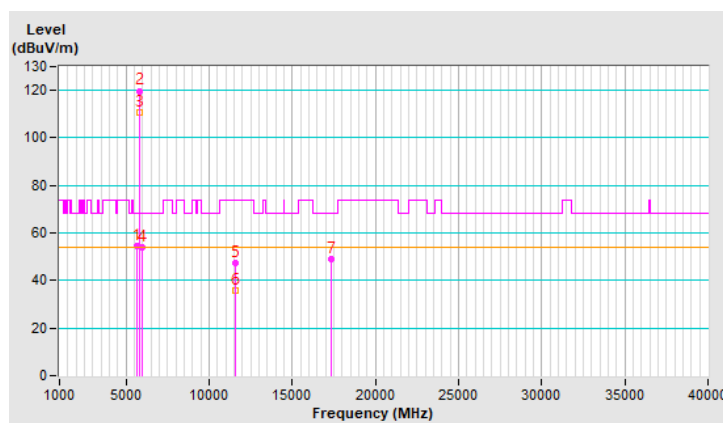


RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5635.37	54.5 PK	68.2	-13.7	1.71 V	242	49.6	4.9
2	*5785.00	119.8 PK			1.71 V	242	114.6	5.2
3	*5785.00	110.5 AV			1.71 V	242	105.3	5.2
4	#5961.48	54.2 PK	68.2	-14.0	1.71 V	242	48.7	5.5
5	11570.00	47.4 PK	74.0	-26.6	1.99 V	230	32.3	15.1
6	11570.00	35.9 AV	54.0	-18.1	1.99 V	230	20.8	15.1
7	#17355.00	49.1 PK	68.2	-19.1	1.61 V	287	30.2	18.9

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.

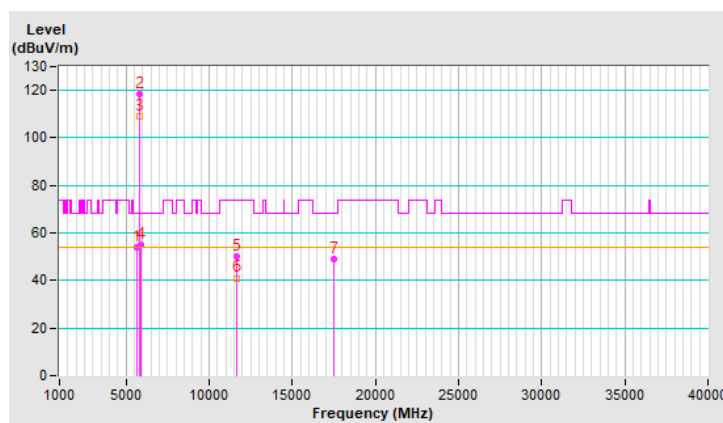


RF Mode	TX 802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	#5647.48	53.8 PK	68.2	-14.4	1.62 H	98	48.9	4.9
2	*5825.00	118.6 PK			1.62 H	98	113.3	5.3
3	*5825.00	109.3 AV			1.62 H	98	104.0	5.3
4	#5928.09	55.2 PK	68.2	-13.0	1.62 H	98	49.7	5.5
5	11650.00	50.3 PK	74.0	-23.7	1.81 H	186	35.3	15.0
6	11650.00	41.0 AV	54.0	-13.0	1.81 H	186	26.0	15.0
7	#17475.00	48.9 PK	68.2	-19.3	1.56 H	196	29.9	19.0

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.

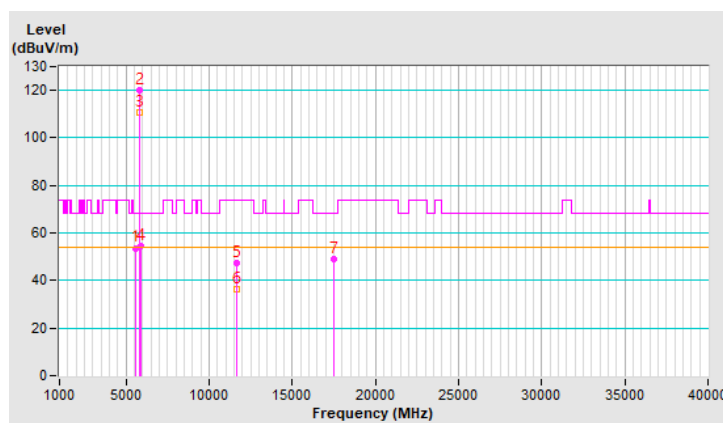


RF Mode	TX 802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	#5604.43	53.7 PK	68.2	-14.5	1.75 V	276	48.7	5.0
2	*5825.00	120.3 PK			1.75 V	276	115.0	5.3
3	*5825.00	110.9 AV			1.75 V	276	105.6	5.3
4	#5927.07	54.7 PK	68.2	-13.5	1.75 V	276	49.2	5.5
5	11650.00	47.3 PK	74.0	-26.7	1.99 V	242	32.3	15.0
6	11650.00	36.3 AV	54.0	-17.7	1.99 V	242	21.3	15.0
7	#17475.00	48.9 PK	68.2	-19.3	1.69 V	302	29.9	19.0

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.

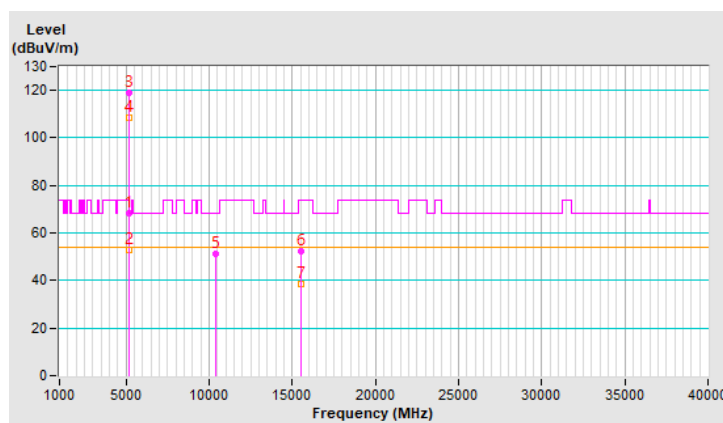


RF Mode	TX 802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	68.4 PK	74.0	-5.6	1.63 H	58	63.6	4.8
2	5150.00	53.0 AV	54.0	-1.0	1.63 H	58	48.2	4.8
3	*5180.00	119.2 PK			1.63 H	58	114.5	4.7
4	*5180.00	108.4 AV			1.63 H	58	103.7	4.7
5	#10360.00	51.2 PK	68.2	-17.0	1.65 H	150	37.0	14.2
6	15540.00	52.5 PK	74.0	-21.5	1.60 H	158	38.1	14.4
7	15540.00	38.7 AV	54.0	-15.3	1.60 H	158	24.3	14.4

Remarks:

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

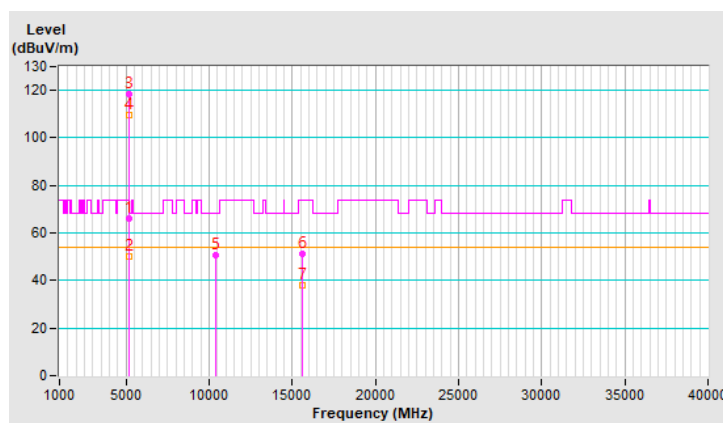


RF Mode	TX 802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.9 PK	74.0	-8.1	1.68 H	90	61.1	4.8
2	5150.00	50.0 AV	54.0	-4.0	1.68 H	90	45.2	4.8
3	*5200.00	118.3 PK			1.68 H	90	113.7	4.6
4	*5200.00	109.4 AV			1.68 H	90	104.8	4.6
5	#10400.00	50.9 PK	68.2	-17.3	1.75 H	161	36.7	14.2
6	15600.00	51.3 PK	74.0	-22.7	1.71 H	171	36.5	14.8
7	15600.00	37.8 AV	54.0	-16.2	1.71 H	171	23.0	14.8

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.

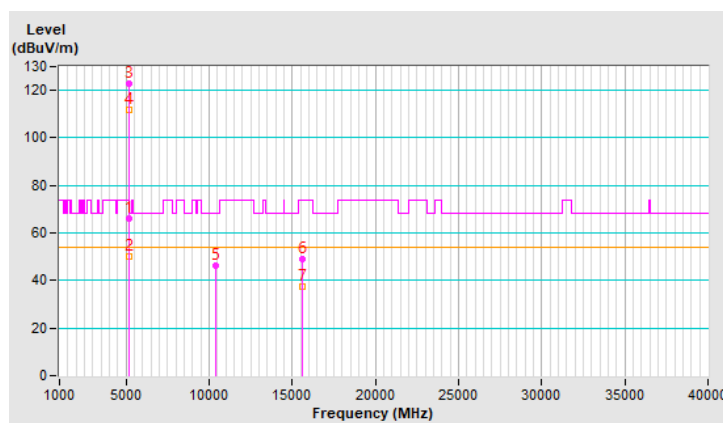


RF Mode	TX 802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	5149.12	66.3 PK	74.0	-7.7	1.53 V	273	61.5	4.8
2	5149.12	50.2 AV	54.0	-3.8	1.53 V	273	45.4	4.8
3	*5200.00	122.6 PK			1.53 V	273	118.0	4.6
4	*5200.00	111.7 AV			1.53 V	273	107.1	4.6
5	#10400.00	46.3 PK	68.2	-21.9	2.00 V	234	32.1	14.2
6	15600.00	48.9 PK	74.0	-25.1	1.66 V	278	34.1	14.8
7	15600.00	37.4 AV	54.0	-16.6	1.66 V	278	22.6	14.8

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.

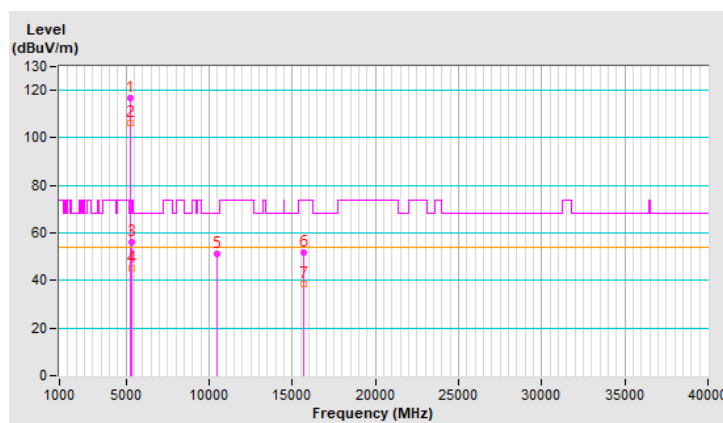


RF Mode	TX 802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	117.0 PK			1.70 H	52	112.6	4.4
2	*5240.00	106.1 AV			1.70 H	52	101.7	4.4
3	5350.00	56.1 PK	74.0	-17.9	1.70 H	52	51.5	4.6
4	5350.00	45.0 AV	54.0	-9.0	1.70 H	52	40.4	4.6
5	#10480.00	51.4 PK	68.2	-16.8	1.74 H	189	37.0	14.4
6	15720.00	51.7 PK	74.0	-22.3	1.53 H	146	38.2	13.5
7	15720.00	38.7 AV	54.0	-15.3	1.53 H	146	25.2	13.5

Remarks:

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

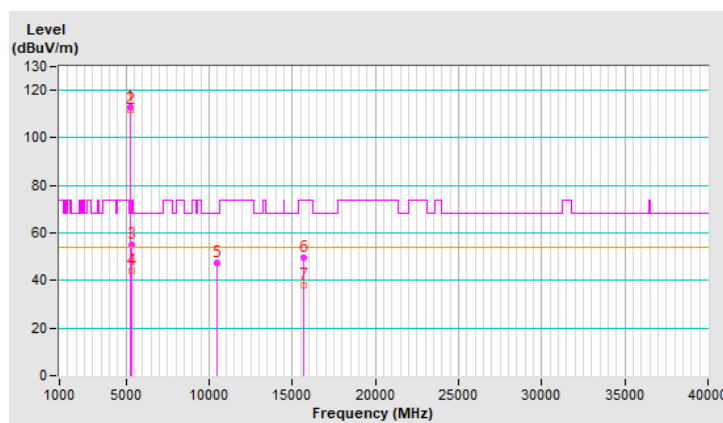


RF Mode	TX 802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	112.7 PK			1.48 V	274	108.3	4.4
2	*5240.00	112.0 AV			1.48 V	274	107.6	4.4
3	5350.00	55.3 PK	74.0	-18.7	1.48 V	274	50.7	4.6
4	5350.00	44.1 AV	54.0	-9.9	1.48 V	274	39.5	4.6
5	#10480.00	47.1 PK	68.2	-21.1	1.95 V	230	32.7	14.4
6	15720.00	49.6 PK	74.0	-24.4	1.66 V	301	36.1	13.5
7	15720.00	38.0 AV	54.0	-16.0	1.66 V	301	24.5	13.5

Remarks:

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

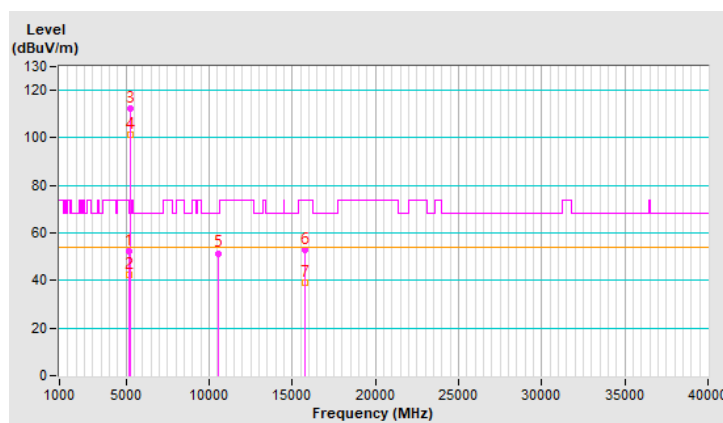


RF Mode	TX 802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	52.4 PK	74.0	-21.6	1.56 H	52	47.6	4.8
2	5150.00	42.2 AV	54.0	-11.8	1.56 H	52	37.4	4.8
3	*5260.00	112.6 PK			1.56 H	52	108.2	4.4
4	*5260.00	101.2 AV			1.56 H	52	96.8	4.4
5	#10520.00	51.5 PK	68.2	-16.7	1.78 H	190	37.1	14.4
6	15780.00	52.8 PK	74.0	-21.2	1.64 H	130	39.2	13.6
7	15780.00	39.3 AV	54.0	-14.7	1.64 H	130	25.7	13.6

Remarks:

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

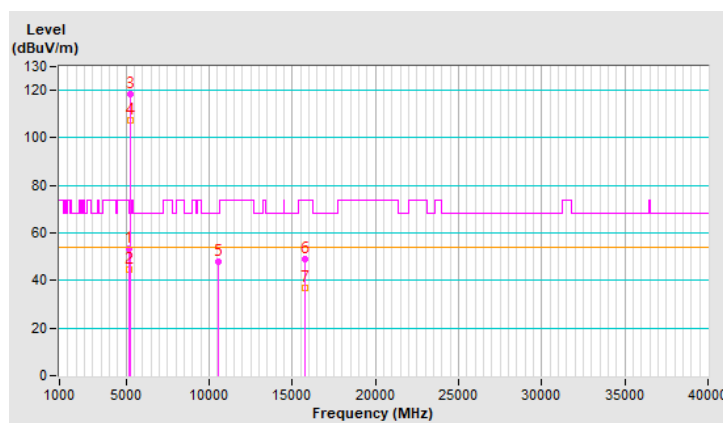


RF Mode	TX 802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	53.5 PK	74.0	-20.5	1.65 V	267	48.7	4.8
2	5150.00	44.5 AV	54.0	-9.5	1.65 V	267	39.7	4.8
3	*5260.00	118.3 PK			1.65 V	267	113.9	4.4
4	*5260.00	107.3 AV			1.65 V	267	102.9	4.4
5	#10520.00	47.9 PK	68.2	-20.3	1.91 V	237	33.5	14.4
6	15780.00	48.8 PK	74.0	-25.2	1.66 V	276	35.2	13.6
7	15780.00	37.0 AV	54.0	-17.0	1.66 V	276	23.4	13.6

Remarks:

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

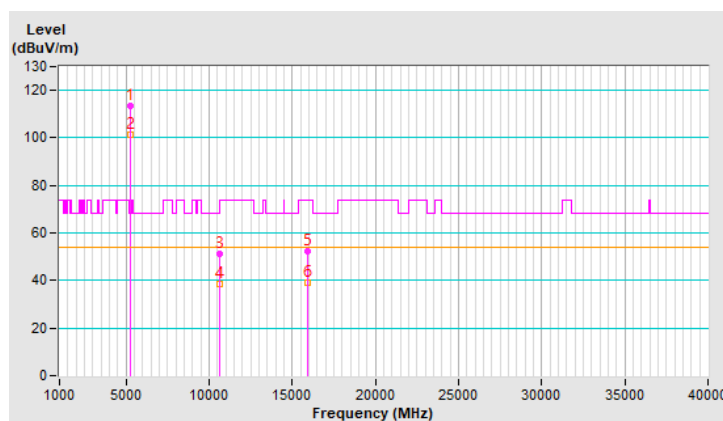


RF Mode	TX 802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	113.7 PK			1.53 H	43	109.4	4.3
2	*5300.00	101.5 AV			1.53 H	43	97.2	4.3
3	10600.00	51.4 PK	74.0	-22.6	1.69 H	169	37.2	14.2
4	10600.00	38.6 AV	54.0	-15.4	1.69 H	169	24.4	14.2
5	15900.00	52.2 PK	74.0	-21.8	1.68 H	136	38.4	13.8
6	15900.00	38.9 AV	54.0	-15.1	1.68 H	136	25.1	13.8

Remarks:

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

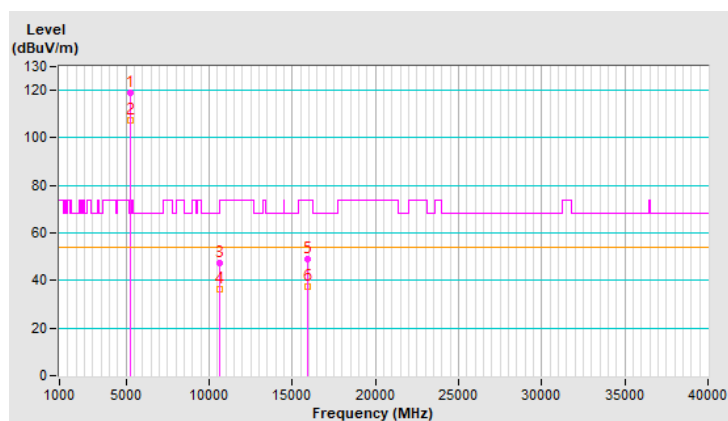


RF Mode	TX 802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	118.9 PK			1.59 V	284	114.6	4.3
2	*5300.00	107.2 AV			1.59 V	284	102.9	4.3
3	10600.00	47.4 PK	74.0	-26.6	1.89 V	223	33.2	14.2
4	10600.00	36.5 AV	54.0	-17.5	1.89 V	223	22.3	14.2
5	15900.00	49.1 PK	74.0	-24.9	1.66 V	291	35.3	13.8
6	15900.00	37.4 AV	54.0	-16.6	1.66 V	291	23.6	13.8

Remarks:

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

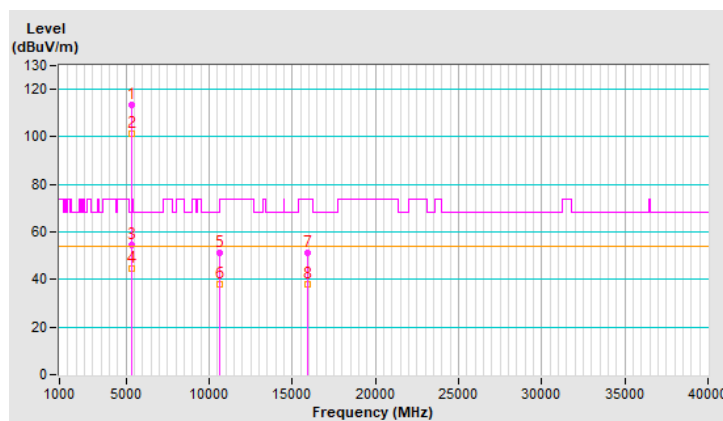


RF Mode	TX 802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	113.6 PK			1.66 H	59	109.1	4.5
2	*5320.00	101.4 AV			1.66 H	59	96.9	4.5
3	5350.00	54.4 PK	74.0	-19.6	1.66 H	59	49.8	4.6
4	5350.00	44.5 AV	54.0	-9.5	1.66 H	59	39.9	4.6
5	10640.00	51.3 PK	74.0	-22.7	1.70 H	156	37.0	14.3
6	10640.00	38.1 AV	54.0	-15.9	1.70 H	156	23.8	14.3
7	15960.00	51.2 PK	74.0	-22.8	1.62 H	176	37.3	13.9
8	15960.00	38.0 AV	54.0	-16.0	1.62 H	176	24.1	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.

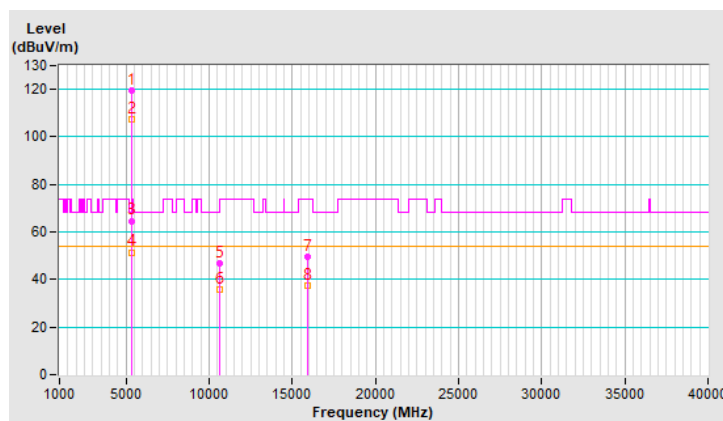


RF Mode	TX 802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	119.5 PK			1.64 V	279	115.0	4.5
2	*5320.00	107.6 AV			1.64 V	279	103.1	4.5
3	5350.00	64.7 PK	74.0	-9.3	1.64 V	279	60.1	4.6
4	5350.00	51.5 AV	54.0	-2.5	1.64 V	279	46.9	4.6
5	10640.00	46.7 PK	74.0	-27.3	1.92 V	245	32.4	14.3
6	10640.00	35.9 AV	54.0	-18.1	1.92 V	245	21.6	14.3
7	15960.00	49.7 PK	74.0	-24.3	1.62 V	320	35.8	13.9
8	15960.00	37.6 AV	54.0	-16.4	1.62 V	320	23.7	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.

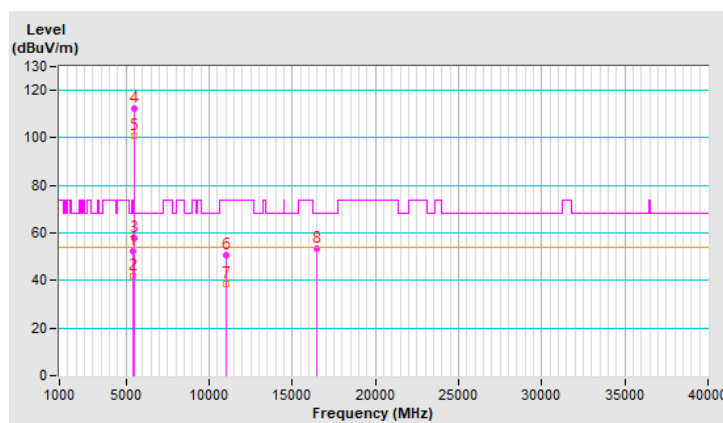


RF Mode	TX 802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	52.2 PK	74.0	-21.8	1.48 H	58	47.4	4.8
2	5460.00	41.9 AV	54.0	-12.1	1.48 H	58	37.1	4.8
3	#5470.00	57.6 PK	68.2	-10.6	1.48 H	58	52.8	4.8
4	*5500.00	112.3 PK			1.48 H	58	107.5	4.8
5	*5500.00	100.7 AV			1.48 H	58	95.9	4.8
6	11000.00	50.7 PK	74.0	-23.3	1.71 H	160	35.9	14.8
7	11000.00	38.4 AV	54.0	-15.6	1.71 H	160	23.6	14.8
8	#16500.00	53.3 PK	68.2	-14.9	1.65 H	131	38.0	15.3

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.

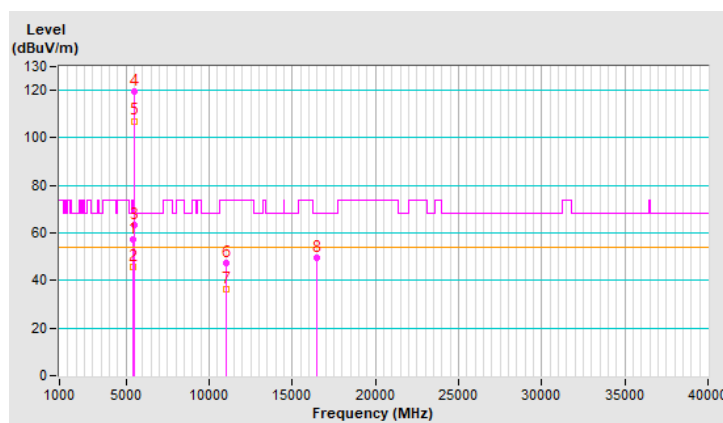


RF Mode	TX 802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	5457.97	57.1 PK	74.0	-16.9	1.65 V	282	52.3	4.8
2	5457.97	45.5 AV	54.0	-8.5	1.65 V	282	40.7	4.8
3	#5470.00	63.1 PK	68.2	-5.1	1.65 V	282	58.3	4.8
4	*5500.00	119.6 PK			1.65 V	282	114.8	4.8
5	*5500.00	107.1 AV			1.65 V	282	102.3	4.8
6	11000.00	47.6 PK	74.0	-26.4	1.90 V	218	32.8	14.8
7	11000.00	36.1 AV	54.0	-17.9	1.90 V	218	21.3	14.8
8	#16500.00	49.6 PK	68.2	-18.6	1.63 V	287	34.3	15.3

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.

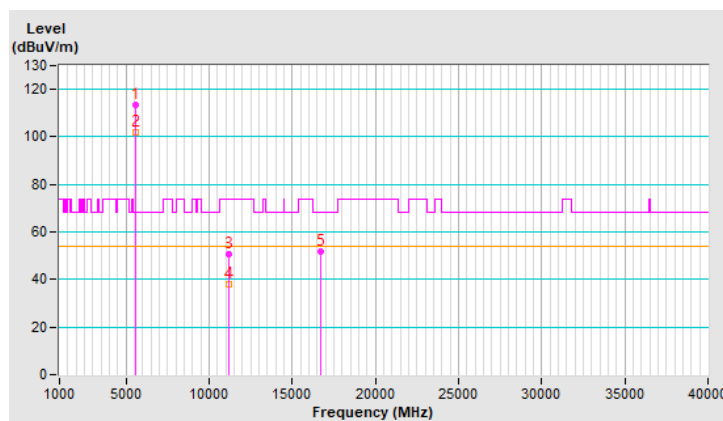


RF Mode	TX 802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	113.7 PK			1.60 H	38	108.9	4.8
2	*5580.00	102.0 AV			1.60 H	38	97.2	4.8
3	11160.00	50.8 PK	74.0	-23.2	1.72 H	172	36.2	14.6
4	11160.00	38.1 AV	54.0	-15.9	1.72 H	172	23.5	14.6
5	#16740.00	51.6 PK	68.2	-16.6	1.66 H	135	34.8	16.8

Remarks:

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

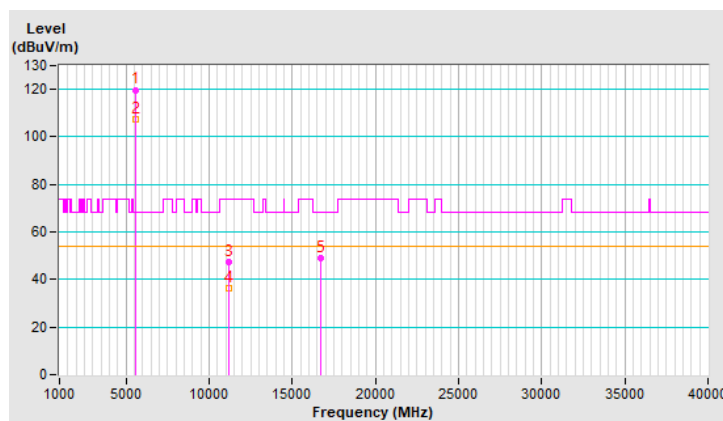


RF Mode	TX 802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	119.8 PK			1.66 V	288	115.0	4.8
2	*5580.00	107.3 AV			1.66 V	288	102.5	4.8
3	11160.00	47.4 PK	74.0	-26.6	1.89 V	221	32.8	14.6
4	11160.00	36.1 AV	54.0	-17.9	1.89 V	221	21.5	14.6
5	#16740.00	48.9 PK	68.2	-19.3	1.73 V	290	32.1	16.8

Remarks:

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

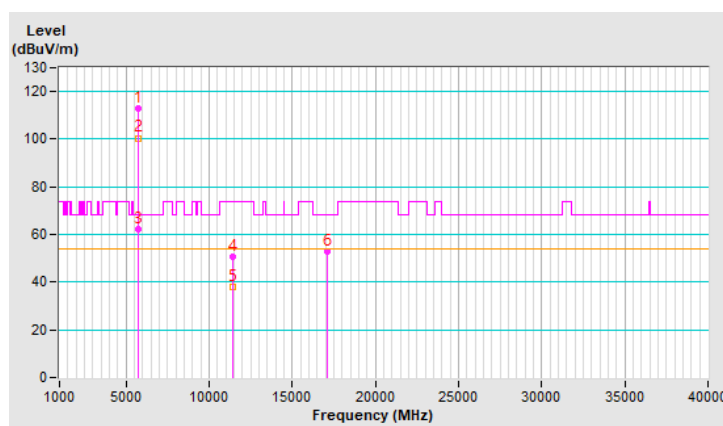


RF Mode	TX 802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	113.0 PK			1.74 H	44	108.3	4.7
2	*5700.00	100.5 AV			1.74 H	44	95.8	4.7
3	#5725.00	62.3 PK	68.2	-5.9	1.74 H	44	57.4	4.9
4	11400.00	50.7 PK	74.0	-23.3	1.66 H	186	35.3	15.4
5	11400.00	37.8 AV	54.0	-16.2	1.66 H	186	22.4	15.4
6	#17100.00	52.9 PK	68.2	-15.3	1.61 H	132	34.4	18.5

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.

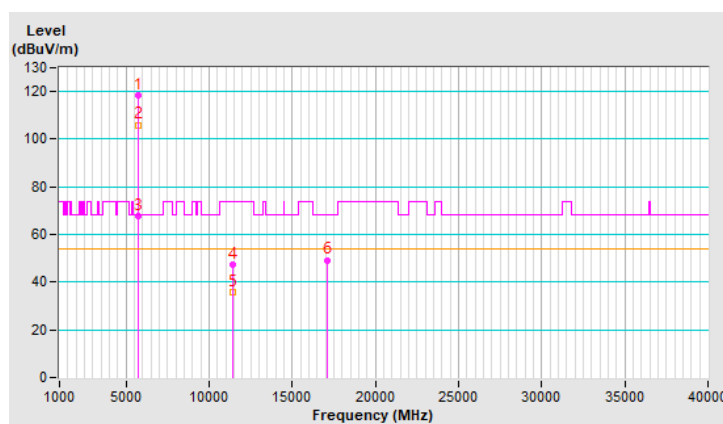


RF Mode	TX 802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	118.2 PK			1.77 V	294	113.5	4.7
2	*5700.00	106.0 AV			1.77 V	294	101.3	4.7
3	#5725.00	67.5 PK	68.2	-0.7	1.77 V	294	62.6	4.9
4	11400.00	47.1 PK	74.0	-26.9	1.92 V	246	31.7	15.4
5	11400.00	36.0 AV	54.0	-18.0	1.92 V	246	20.6	15.4
6	#17100.00	49.3 PK	68.2	-18.9	1.63 V	281	30.8	18.5

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.

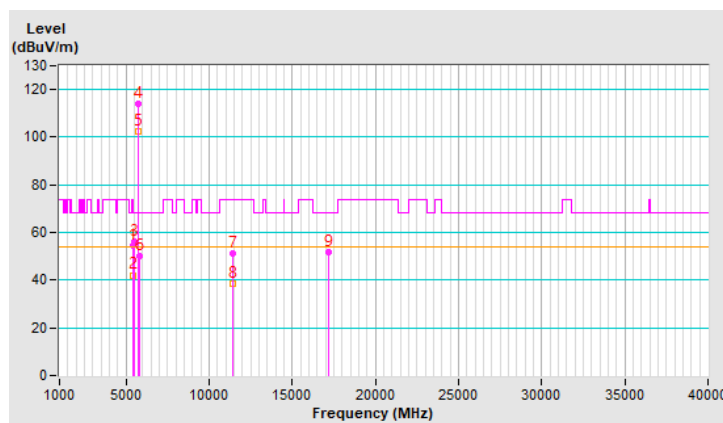


RF Mode	TX 802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	1.66 H	61	49.9	4.8
2	5460.00	42.1 AV	54.0	-11.9	1.66 H	61	37.3	4.8
3	#5470.00	56.1 PK	68.2	-12.1	1.66 H	61	51.3	4.8
4	*5720.00	114.0 PK			1.66 H	61	109.2	4.8
5	*5720.00	102.3 AV			1.66 H	61	97.5	4.8
6	#5850.00	50.1 PK	68.2	-18.1	1.66 H	61	44.8	5.3
7	11440.00	51.1 PK	74.0	-22.9	1.67 H	159	35.8	15.3
8	11440.00	38.6 AV	54.0	-15.4	1.67 H	159	23.3	15.3
9	#17160.00	52.0 PK	68.2	-16.2	1.62 H	150	33.7	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.

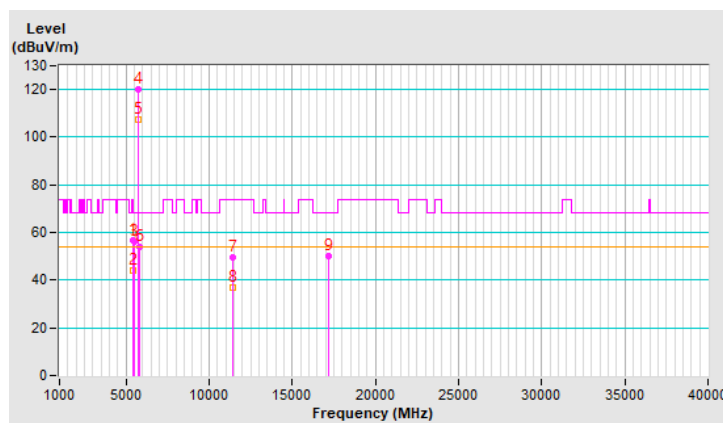


RF Mode	TX 802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	56.8 PK	74.0	-17.2	1.67 V	318	52.0	4.8
2	5460.00	44.0 AV	54.0	-10.0	1.67 V	318	39.2	4.8
3	#5470.00	56.0 PK	68.2	-12.2	1.67 V	318	51.2	4.8
4	*5720.00	120.0 PK			1.67 V	318	115.2	4.8
5	*5720.00	107.5 AV			1.67 V	318	102.7	4.8
6	#5850.00	54.0 PK	68.2	-14.2	1.67 V	318	48.7	5.3
7	11440.00	49.5 PK	74.0	-24.5	1.72 V	277	34.2	15.3
8	11440.00	37.0 AV	54.0	-17.0	1.72 V	277	21.7	15.3
9	#17160.00	50.2 PK	68.2	-18.0	1.87 V	247	31.9	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.

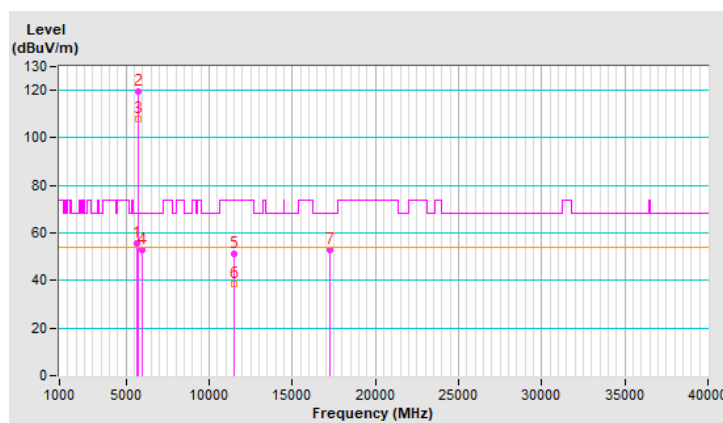


RF Mode	TX 802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5620.13	55.4 PK	68.2	-12.8	1.77 H	102	50.5	4.9
2	*5745.00	119.6 PK			1.77 H	102	114.5	5.1
3	*5745.00	108.0 AV			1.77 H	102	102.9	5.1
4	#5942.64	53.0 PK	68.2	-15.2	1.77 H	102	47.5	5.5
5	11490.00	51.0 PK	74.0	-23.0	1.68 H	179	35.9	15.1
6	11490.00	38.3 AV	54.0	-15.7	1.68 H	179	23.2	15.1
7	#17235.00	52.8 PK	68.2	-15.4	1.56 H	173	34.5	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.

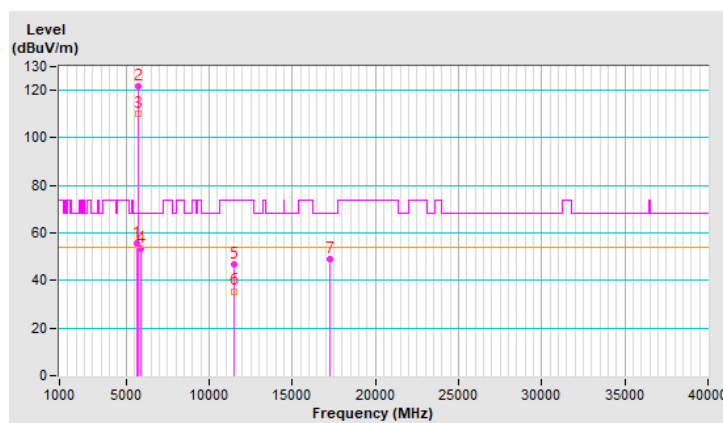


RF Mode	TX 802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5628.63	55.4 PK	68.2	-12.8	1.70 V	231	50.5	4.9
2	*5745.00	121.7 PK			1.70 V	231	116.6	5.1
3	*5745.00	110.4 AV			1.70 V	231	105.3	5.1
4	#5928.83	53.3 PK	68.2	-14.9	1.70 V	231	47.8	5.5
5	11490.00	47.0 PK	74.0	-27.0	1.85 V	236	31.9	15.1
6	11490.00	35.5 AV	54.0	-18.5	1.85 V	236	20.4	15.1
7	#17235.00	48.9 PK	68.2	-19.3	1.71 V	297	30.6	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.

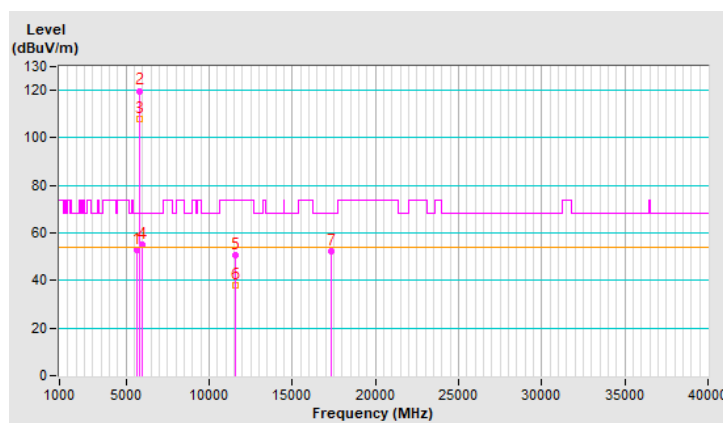


RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	#5619.27	52.9 PK	68.2	-15.3	1.69 H	95	48.0	4.9
2	*5785.00	119.8 PK			1.69 H	95	114.6	5.2
3	*5785.00	107.9 AV			1.69 H	95	102.7	5.2
4	#5946.09	55.0 PK	68.2	-13.2	1.69 H	95	49.5	5.5
5	11570.00	50.7 PK	74.0	-23.3	1.59 H	146	35.6	15.1
6	11570.00	37.8 AV	54.0	-16.2	1.59 H	146	22.7	15.1
7	#17355.00	52.2 PK	68.2	-16.0	1.59 H	127	33.3	18.9

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.

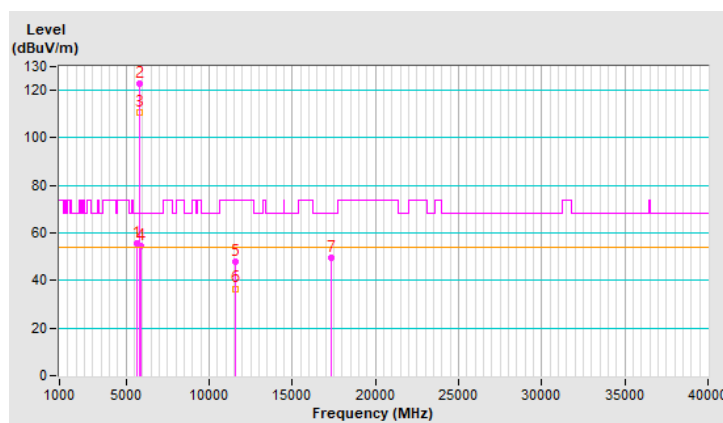


RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	#5649.46	55.7 PK	68.2	-12.5	1.61 V	300	50.8	4.9
2	*5785.00	122.9 PK			1.61 V	300	117.7	5.2
3	*5785.00	110.8 AV			1.61 V	300	105.6	5.2
4	#5932.27	54.6 PK	68.2	-13.6	1.61 V	300	49.1	5.5
5	11570.00	48.0 PK	74.0	-26.0	1.95 V	238	32.9	15.1
6	11570.00	36.6 AV	54.0	-17.4	1.95 V	238	21.5	15.1
7	#17355.00	49.8 PK	68.2	-18.4	1.67 V	290	30.9	18.9

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.

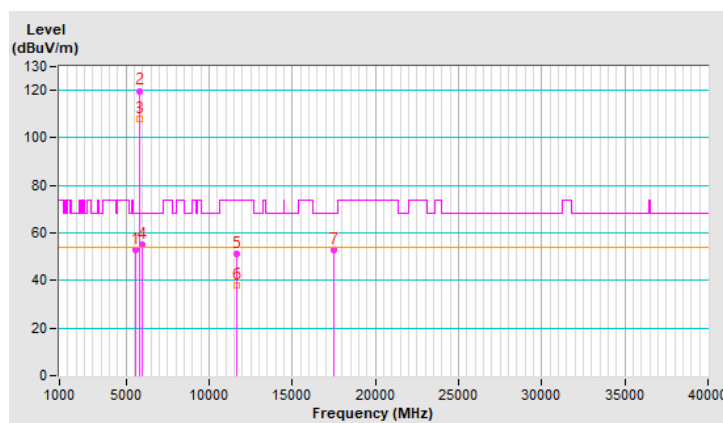


RF Mode	TX 802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	#5573.47	52.8 PK	68.2	-15.4	1.58 H	105	48.0	4.8
2	*5825.00	119.8 PK			1.58 H	105	114.5	5.3
3	*5825.00	108.0 AV			1.58 H	105	102.7	5.3
4	#5951.09	55.0 PK	68.2	-13.2	1.58 H	105	49.5	5.5
5	11650.00	51.0 PK	74.0	-23.0	1.83 H	149	36.0	15.0
6	11650.00	38.1 AV	54.0	-15.9	1.83 H	149	23.1	15.0
7	#17475.00	52.8 PK	68.2	-15.4	1.63 H	168	33.8	19.0

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.

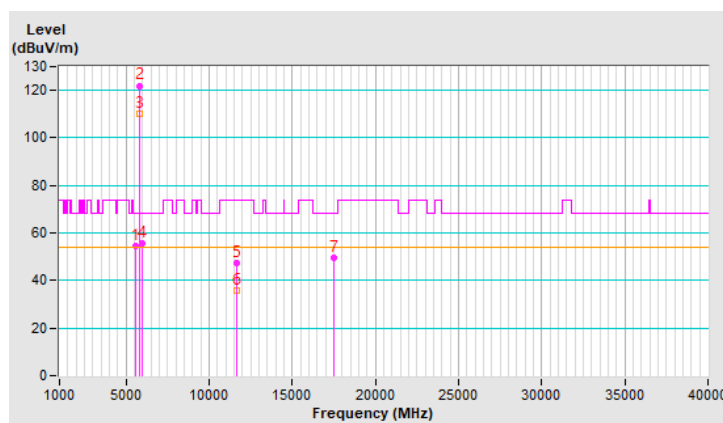


RF Mode	TX 802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	#5612.14	54.3 PK	68.2	-13.9	1.65 V	254	49.4	4.9
2	*5825.00	122.0 PK			1.65 V	254	116.7	5.3
3	*5825.00	110.3 AV			1.65 V	254	105.0	5.3
4	#5988.73	55.7 PK	68.2	-12.5	1.65 V	254	50.2	5.5
5	11650.00	47.4 PK	74.0	-26.6	2.01 V	243	32.4	15.0
6	11650.00	36.0 AV	54.0	-18.0	2.01 V	243	21.0	15.0
7	#17475.00	49.5 PK	68.2	-18.7	1.67 V	299	30.5	19.0

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.

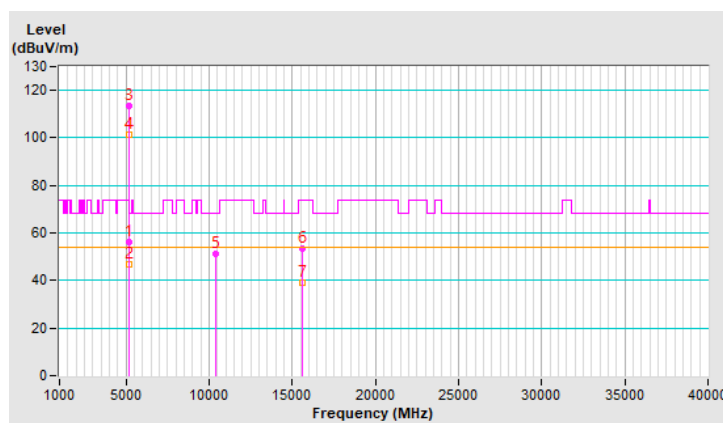


RF Mode	TX 802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	5148.72	56.4 PK	74.0	-17.6	1.65 H	67	51.6	4.8
2	5148.72	46.8 AV	54.0	-7.2	1.65 H	67	42.0	4.8
3	*5190.00	113.2 PK			1.65 H	67	108.6	4.6
4	*5190.00	101.3 AV			1.65 H	67	96.7	4.6
5	#10380.00	51.2 PK	68.2	-17.0	1.69 H	157	37.0	14.2
6	15570.00	53.3 PK	74.0	-20.7	1.61 H	150	38.8	14.5
7	15570.00	39.3 AV	54.0	-14.7	1.61 H	150	24.8	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.
6. " # ": The radiated frequency is out of the restricted band.

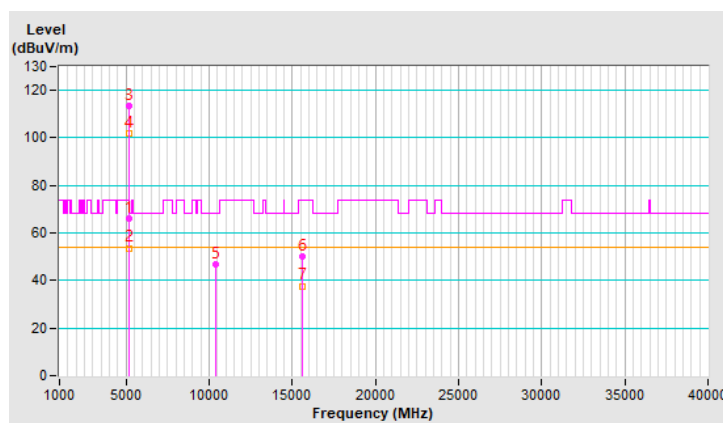


RF Mode	TX 802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.1 PK	74.0	-7.9	1.63 V	292	61.3	4.8
2	5150.00	53.7 AV	54.0	-0.3	1.63 V	292	48.9	4.8
3	*5190.00	113.6 PK			1.63 V	292	109.0	4.6
4	*5190.00	102.0 AV			1.63 V	292	97.4	4.6
5	#10380.00	46.6 PK	68.2	-21.6	2.00 V	225	32.4	14.2
6	15570.00	49.9 PK	74.0	-24.1	1.68 V	300	35.4	14.5
7	15570.00	37.7 AV	54.0	-16.3	1.68 V	300	23.2	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.
6. " # ": The radiated frequency is out of the restricted band.

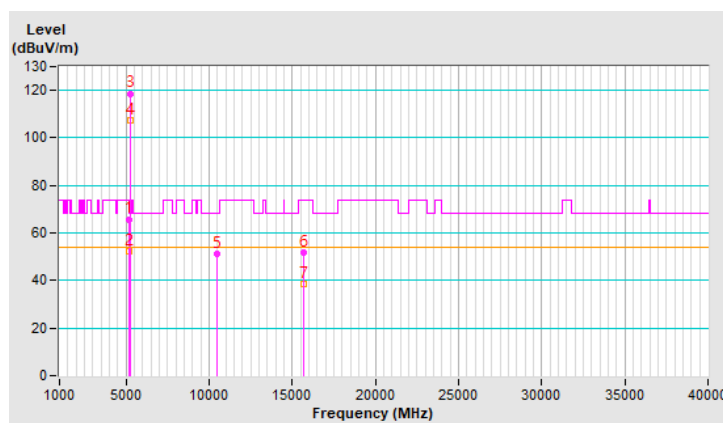


RF Mode	TX 802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.8 PK	74.0	-8.2	1.69 H	69	61.0	4.8
2	5150.00	52.5 AV	54.0	-1.5	1.69 H	69	47.7	4.8
3	*5230.00	118.7 PK			1.69 H	69	114.2	4.5
4	*5230.00	107.2 AV			1.69 H	69	102.7	4.5
5	#10460.00	51.2 PK	68.2	-17.0	1.70 H	170	36.8	14.4
6	15690.00	51.9 PK	74.0	-22.1	1.54 H	170	38.2	13.7
7	15690.00	38.5 AV	54.0	-15.5	1.54 H	170	24.8	13.7

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.

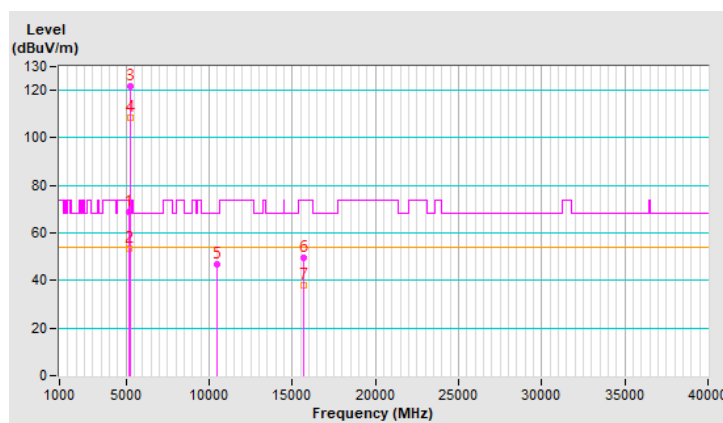


RF Mode	TX 802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	69.0 PK	74.0	-5.0	1.64 V	272	64.2	4.8
2	5150.00	53.2 AV	54.0	-0.8	1.64 V	272	48.4	4.8
3	*5230.00	121.6 PK			1.64 V	272	117.1	4.5
4	*5230.00	108.7 AV			1.64 V	272	104.2	4.5
5	#10460.00	47.0 PK	68.2	-21.2	1.99 V	245	32.6	14.4
6	15690.00	49.6 PK	74.0	-24.4	1.54 V	302	35.9	13.7
7	15690.00	38.1 AV	54.0	-15.9	1.54 V	302	24.4	13.7

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.

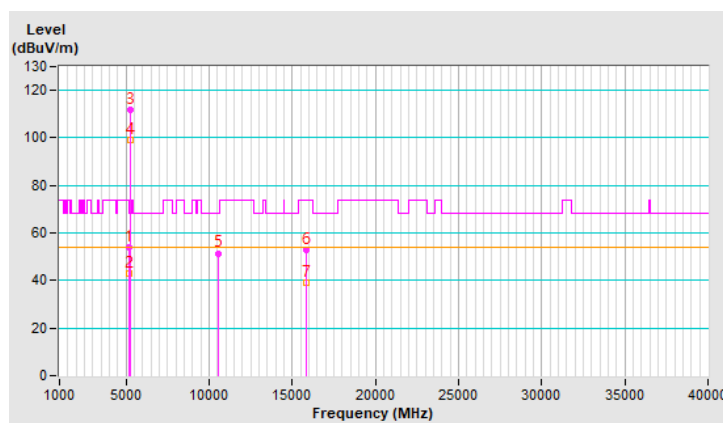


RF Mode	TX 802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	53.8 PK	74.0	-20.2	1.64 H	50	49.0	4.8
2	5150.00	42.8 AV	54.0	-11.2	1.64 H	50	38.0	4.8
3	*5270.00	111.7 PK			1.64 H	50	107.4	4.3
4	*5270.00	99.0 AV			1.64 H	50	94.7	4.3
5	#10540.00	51.5 PK	68.2	-16.7	1.67 H	145	37.1	14.4
6	15810.00	52.7 PK	74.0	-21.3	1.58 H	160	39.1	13.6
7	15810.00	39.3 AV	54.0	-14.7	1.58 H	160	25.7	13.6

Remarks:

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

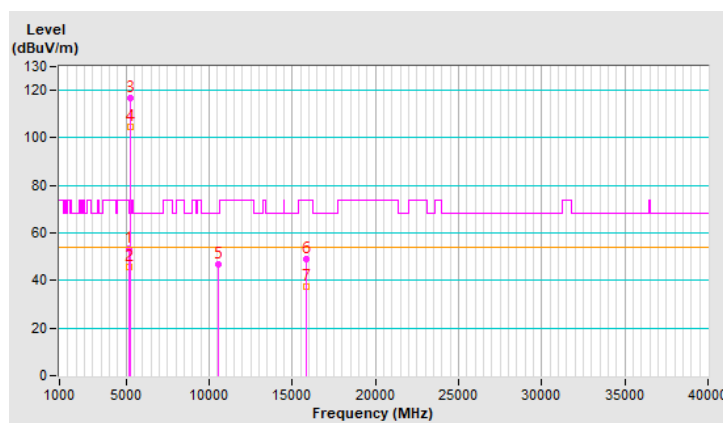


RF Mode	TX 802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	53.5 PK	74.0	-20.5	1.77 V	270	48.7	4.8
2	5150.00	45.5 AV	54.0	-8.5	1.77 V	270	40.7	4.8
3	*5270.00	116.8 PK			1.77 V	270	112.5	4.3
4	*5270.00	104.5 AV			1.77 V	270	100.2	4.3
5	#10540.00	46.7 PK	68.2	-21.5	1.89 V	248	32.3	14.4
6	15810.00	49.2 PK	74.0	-24.8	1.64 V	301	35.6	13.6
7	15810.00	37.4 AV	54.0	-16.6	1.64 V	301	23.8	13.6

Remarks:

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

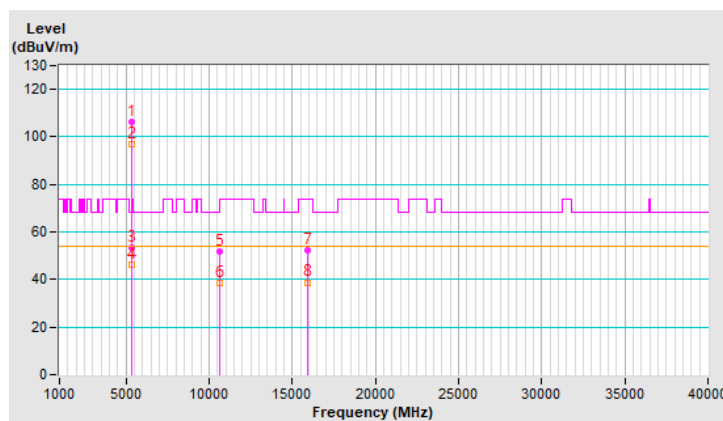


RF Mode	TX 802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	106.1 PK			1.67 H	56	101.7	4.4
2	*5310.00	96.8 AV			1.67 H	56	92.4	4.4
3	5350.00	53.2 PK	74.0	-20.8	1.67 H	56	48.6	4.6
4	5350.00	46.5 AV	54.0	-7.5	1.67 H	56	41.9	4.6
5	10620.00	51.8 PK	74.0	-22.2	1.66 H	175	37.5	14.3
6	10620.00	38.6 AV	54.0	-15.4	1.66 H	175	24.3	14.3
7	15930.00	52.5 PK	74.0	-21.5	1.58 H	129	38.5	14.0
8	15930.00	38.8 AV	54.0	-15.2	1.58 H	129	24.8	14.0

Remarks:

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

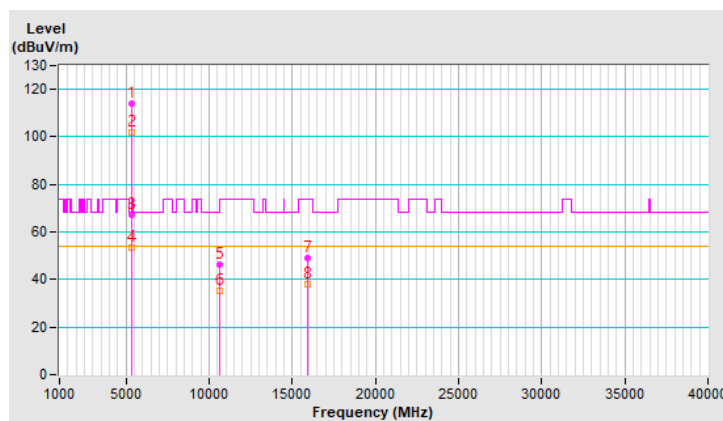


RF Mode	TX 802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	114.2 PK			1.63 V	274	109.8	4.4
2	*5310.00	102.1 AV			1.63 V	274	97.7	4.4
3	5351.17	67.3 PK	74.0	-6.7	1.63 V	274	62.7	4.6
4	5351.17	53.4 AV	54.0	-0.6	1.63 V	274	48.8	4.6
5	10620.00	46.4 PK	74.0	-27.6	1.88 V	245	32.1	14.3
6	10620.00	35.0 AV	54.0	-19.0	1.88 V	245	20.7	14.3
7	15930.00	49.2 PK	74.0	-24.8	1.63 V	301	35.2	14.0
8	15930.00	37.8 AV	54.0	-16.2	1.63 V	301	23.8	14.0

Remarks:

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

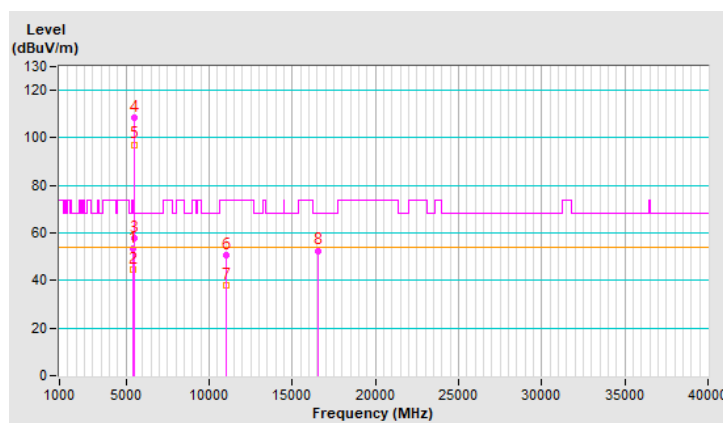


RF Mode	TX 802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	53.2 PK	74.0	-20.8	1.62 H	63	48.4	4.8
2	5460.00	44.4 AV	54.0	-9.6	1.62 H	63	39.6	4.8
3	#5464.62	58.0 PK	68.2	-10.2	1.62 H	63	53.2	4.8
4	*5510.00	108.5 PK			1.62 H	63	103.6	4.9
5	*5510.00	97.2 AV			1.62 H	63	92.3	4.9
6	11020.00	50.9 PK	74.0	-23.1	1.73 H	151	36.2	14.7
7	11020.00	38.1 AV	54.0	-15.9	1.73 H	151	23.4	14.7
8	#16530.00	52.6 PK	68.2	-15.6	1.62 H	181	37.3	15.3

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.

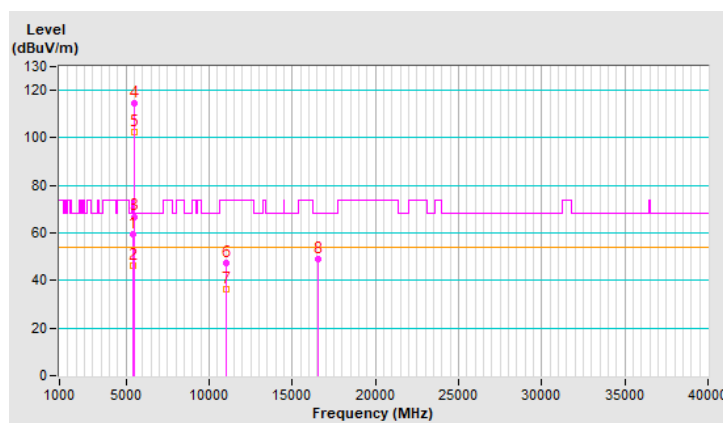


RF Mode	TX 802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	5458.36	59.4 PK	74.0	-14.6	1.64 V	274	54.6	4.8
2	5458.36	46.3 AV	54.0	-7.7	1.64 V	274	41.5	4.8
3	#5470.00	66.9 PK	68.2	-1.3	1.64 V	274	62.1	4.8
4	*5510.00	114.5 PK			1.64 V	274	109.6	4.9
5	*5510.00	102.5 AV			1.64 V	274	97.6	4.9
6	11020.00	47.6 PK	74.0	-26.4	2.02 V	228	32.9	14.7
7	11020.00	36.4 AV	54.0	-17.6	2.02 V	228	21.7	14.7
8	#16530.00	49.1 PK	68.2	-19.1	1.60 V	290	33.8	15.3

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.

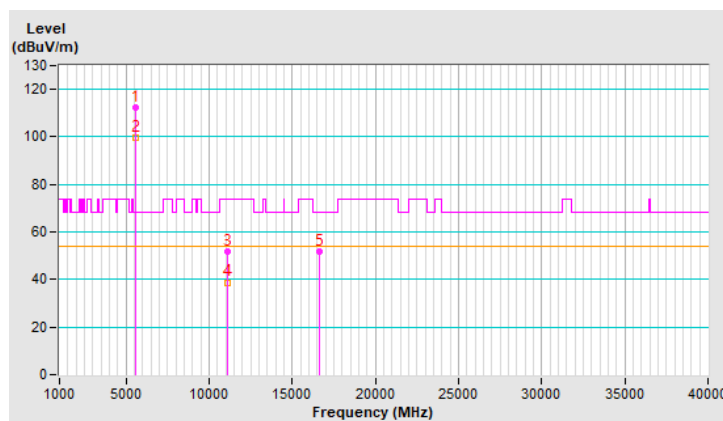


RF Mode	TX 802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	112.3 PK			1.51 H	49	107.5	4.8
2	*5550.00	99.5 AV			1.51 H	49	94.7	4.8
3	11100.00	51.6 PK	74.0	-22.4	1.76 H	180	37.1	14.5
4	11100.00	38.8 AV	54.0	-15.2	1.76 H	180	24.3	14.5
5	#16650.00	51.9 PK	68.2	-16.3	1.61 H	129	35.6	16.3

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.

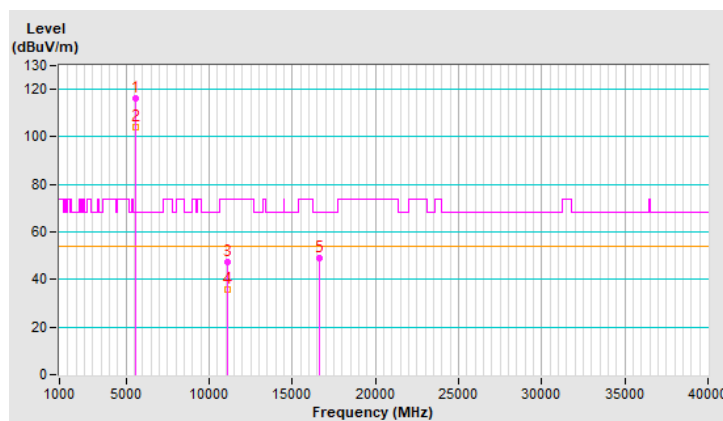


RF Mode	TX 802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	116.3 PK			1.67 V	271	111.5	4.8
2	*5550.00	104.3 AV			1.67 V	271	99.5	4.8
3	11100.00	47.2 PK	74.0	-26.8	1.89 V	237	32.7	14.5
4	11100.00	35.7 AV	54.0	-18.3	1.89 V	237	21.2	14.5
5	#16650.00	49.0 PK	68.2	-19.2	1.65 V	304	32.7	16.3

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.

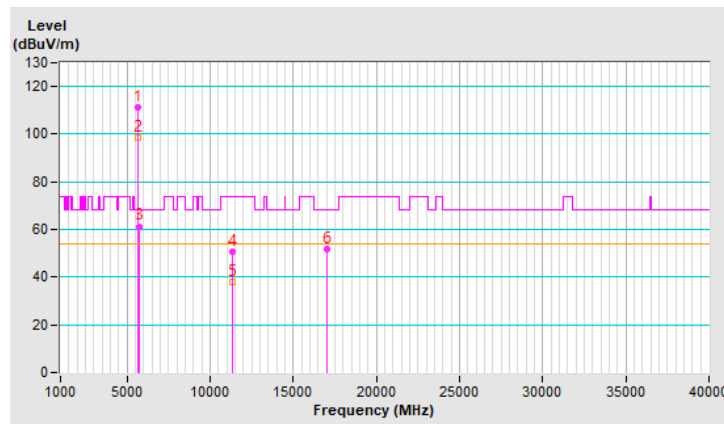


RF Mode	TX 802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	111.1 PK			1.62 H	70	106.2	4.9
2	*5670.00	98.8 AV			1.62 H	70	93.9	4.9
3	#5725.00	61.4 PK	68.2	-6.8	1.62 H	70	56.5	4.9
4	11340.00	50.7 PK	74.0	-23.3	1.67 H	170	35.4	15.3
5	11340.00	38.2 AV	54.0	-15.8	1.67 H	170	22.9	15.3
6	#17010.00	51.9 PK	68.2	-16.3	1.60 H	174	33.6	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.

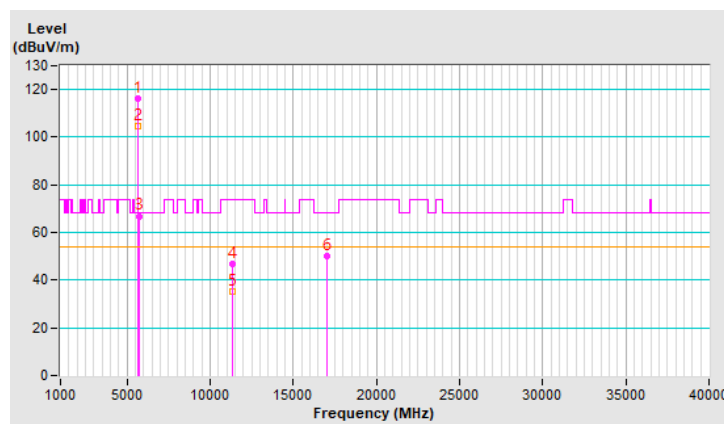


RF Mode	TX 802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	116.3 PK			1.70 V	271	111.4	4.9
2	*5670.00	104.5 AV			1.70 V	271	99.6	4.9
3	#5725.00	66.9 PK	68.2	-1.3	1.70 V	271	62.0	4.9
4	11340.00	47.0 PK	74.0	-27.0	1.90 V	249	31.7	15.3
5	11340.00	35.4 AV	54.0	-18.6	1.90 V	249	20.1	15.3
6	#17010.00	50.0 PK	68.2	-18.2	1.66 V	286	31.7	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.

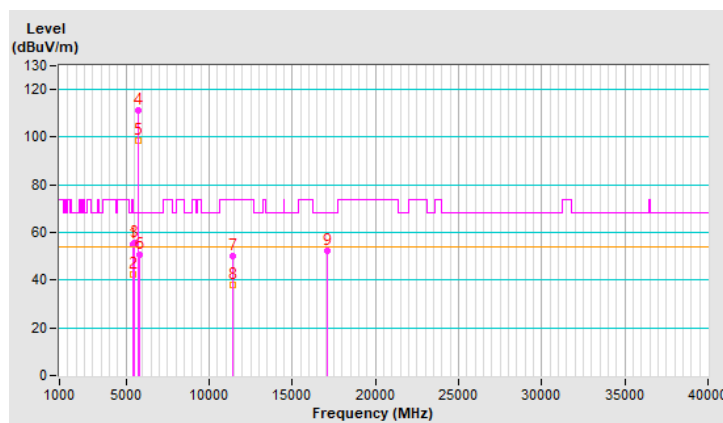


RF Mode	TX 802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	55.1 PK	74.0	-18.9	1.53 H	40	50.3	4.8
2	5460.00	42.6 AV	54.0	-11.4	1.53 H	40	37.8	4.8
3	#5470.00	55.8 PK	68.2	-12.4	1.53 H	40	51.0	4.8
4	*5710.00	111.3 PK			1.53 H	40	106.5	4.8
5	*5710.00	98.8 AV			1.53 H	40	94.0	4.8
6	#5850.00	50.9 PK	68.2	-17.3	1.53 H	40	45.6	5.3
7	11420.00	50.2 PK	74.0	-23.8	1.76 H	173	34.9	15.3
8	11420.00	37.9 AV	54.0	-16.1	1.76 H	173	22.6	15.3
9	#17130.00	52.3 PK	68.2	-15.9	1.65 H	160	34.0	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.

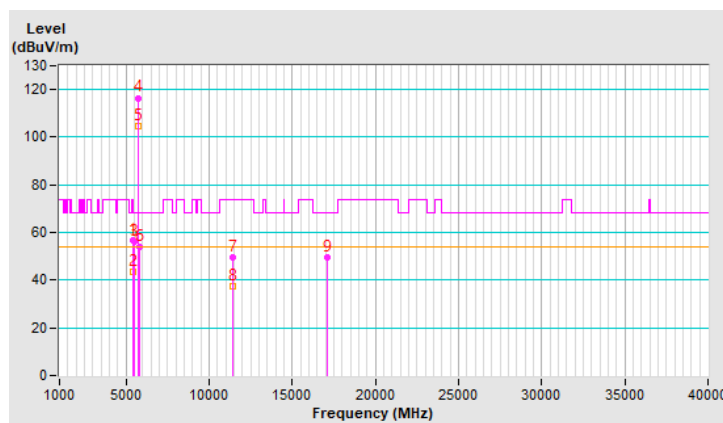


RF Mode	TX 802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	56.7 PK	74.0	-17.3	1.68 V	254	51.9	4.8
2	5460.00	43.3 AV	54.0	-10.7	1.68 V	254	38.5	4.8
3	#5470.00	56.2 PK	68.2	-12.0	1.68 V	254	51.4	4.8
4	*5710.00	116.5 PK			1.68 V	254	111.7	4.8
5	*5710.00	104.6 AV			1.68 V	254	99.8	4.8
6	#5850.00	54.0 PK	68.2	-14.2	1.68 V	254	48.7	5.3
7	11420.00	49.4 PK	74.0	-24.6	1.81 V	252	34.1	15.3
8	11420.00	37.4 AV	54.0	-16.6	1.81 V	252	22.1	15.3
9	#17130.00	49.7 PK	68.2	-18.5	1.83 V	229	31.4	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.

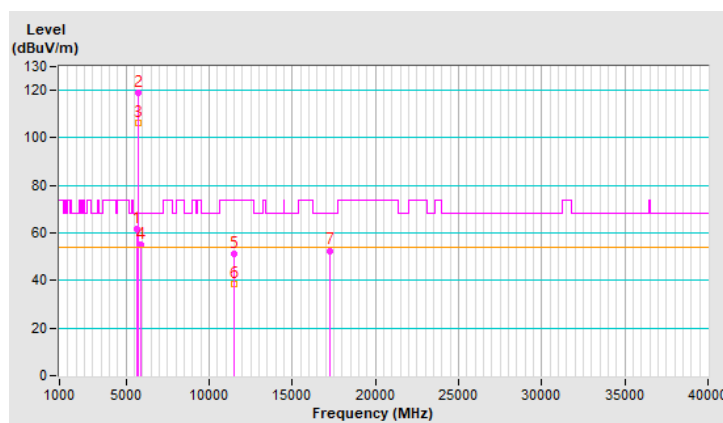


RF Mode	TX 802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	#5642.82	61.8 PK	68.2	-6.4	1.65 H	80	56.9	4.9
2	*5755.00	118.9 PK			1.65 H	80	113.8	5.1
3	*5755.00	106.1 AV			1.65 H	80	101.0	5.1
4	#5926.14	55.0 PK	68.2	-13.2	1.65 H	80	49.5	5.5
5	11510.00	51.4 PK	74.0	-22.6	1.66 H	142	36.3	15.1
6	11510.00	38.7 AV	54.0	-15.3	1.66 H	142	23.6	15.1
7	#17265.00	52.6 PK	68.2	-15.6	1.72 H	160	34.2	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.

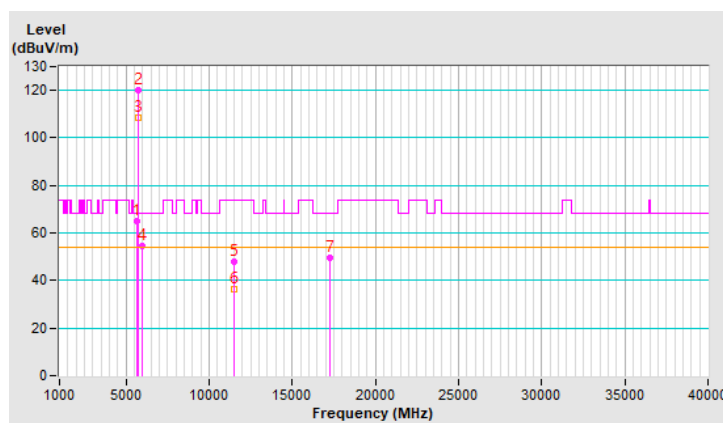


RF Mode	TX 802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	#5648.23	64.8 PK	68.2	-3.4	1.76 V	291	59.9	4.9
2	*5755.00	120.2 PK			1.76 V	291	115.1	5.1
3	*5755.00	108.5 AV			1.76 V	291	103.4	5.1
4	#5936.41	54.5 PK	68.2	-13.7	1.76 V	291	49.0	5.5
5	11510.00	47.8 PK	74.0	-26.2	1.86 V	236	32.7	15.1
6	11510.00	36.4 AV	54.0	-17.6	1.86 V	236	21.3	15.1
7	#17265.00	49.7 PK	68.2	-18.5	1.68 V	289	31.3	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.

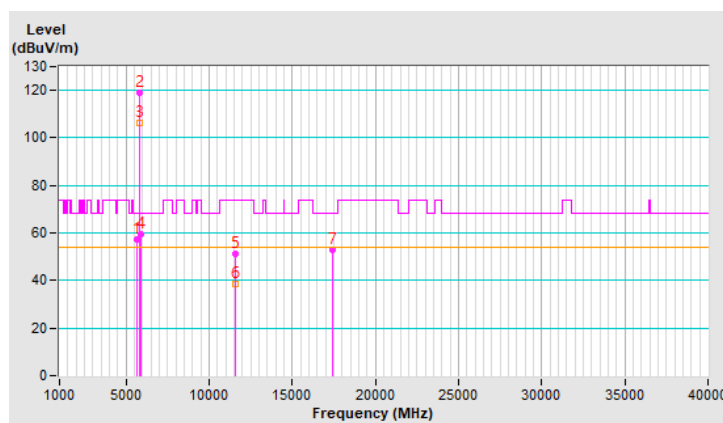


RF Mode	TX 802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.72	57.5 PK	68.2	-10.7	1.67 H	78	52.6	4.9
2	*5795.00	119.0 PK			1.67 H	78	113.8	5.2
3	*5795.00	106.3 AV			1.67 H	78	101.1	5.2
4	#5925.73	59.6 PK	68.2	-8.6	1.67 H	78	54.1	5.5
5	11590.00	51.1 PK	74.0	-22.9	1.73 H	160	36.0	15.1
6	11590.00	38.3 AV	54.0	-15.7	1.73 H	160	23.2	15.1
7	#17385.00	52.7 PK	68.2	-15.5	1.59 H	163	33.5	19.2

Remarks:

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

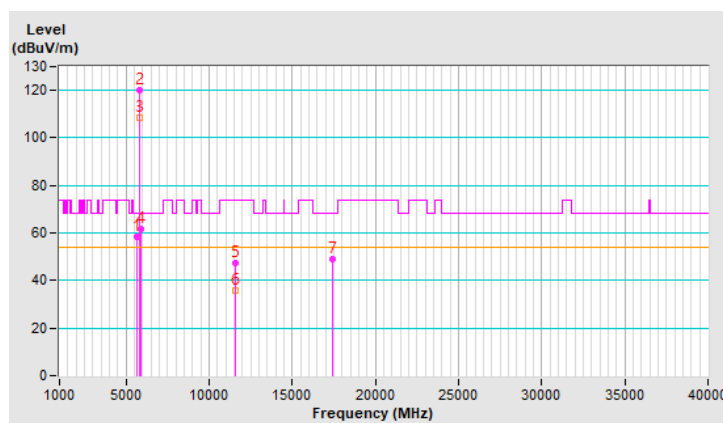


RF Mode	TX 802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.83	58.4 PK	68.2	-9.8	1.79 V	281	53.5	4.9
2	*5795.00	120.0 PK			1.79 V	281	114.8	5.2
3	*5795.00	108.4 AV			1.79 V	281	103.2	5.2
4	#5927.12	61.5 PK	68.2	-6.7	1.79 V	281	56.0	5.5
5	11590.00	47.1 PK	74.0	-26.9	1.86 V	238	32.0	15.1
6	11590.00	35.8 AV	54.0	-18.2	1.86 V	238	20.7	15.1
7	#17385.00	49.1 PK	68.2	-19.1	1.64 V	311	29.9	19.2

Remarks:

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

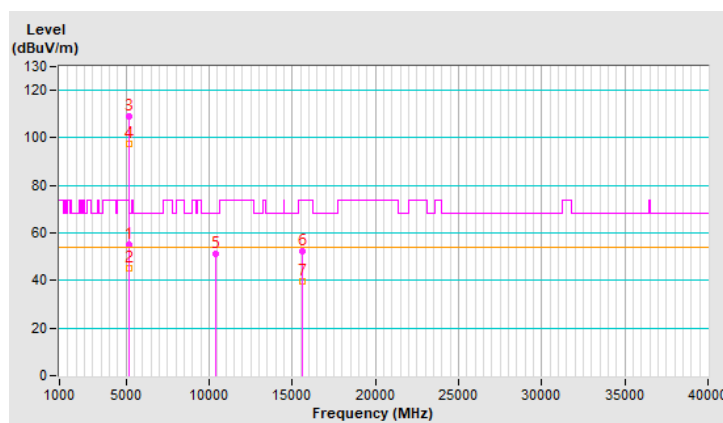


RF Mode	TX 802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	55.0 PK	74.0	-19.0	1.75 H	61	50.2	4.8
2	5150.00	45.2 AV	54.0	-8.8	1.75 H	61	40.4	4.8
3	*5210.00	109.2 PK			1.75 H	61	104.7	4.5
4	*5210.00	97.3 AV			1.75 H	61	92.8	4.5
5	#10420.00	51.0 PK	68.2	-17.2	1.74 H	166	36.7	14.3
6	15630.00	52.5 PK	74.0	-21.5	1.57 H	148	38.2	14.3
7	15630.00	39.5 AV	54.0	-14.5	1.57 H	148	25.2	14.3

Remarks:

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

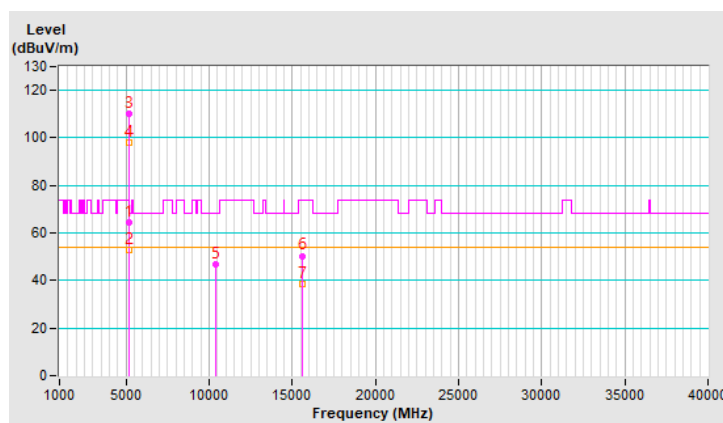


RF Mode	TX 802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	5145.81	64.5 PK	74.0	-9.5	1.61 V	292	59.7	4.8
2	5145.81	53.0 AV	54.0	-1.0	1.61 V	292	48.2	4.8
3	*5210.00	109.9 PK			1.61 V	292	105.4	4.5
4	*5210.00	98.0 AV			1.61 V	292	93.5	4.5
5	#10420.00	46.6 PK	68.2	-21.6	1.96 V	233	32.3	14.3
6	15630.00	50.4 PK	74.0	-23.6	1.67 V	275	36.1	14.3
7	15630.00	38.3 AV	54.0	-15.7	1.67 V	275	24.0	14.3

Remarks:

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

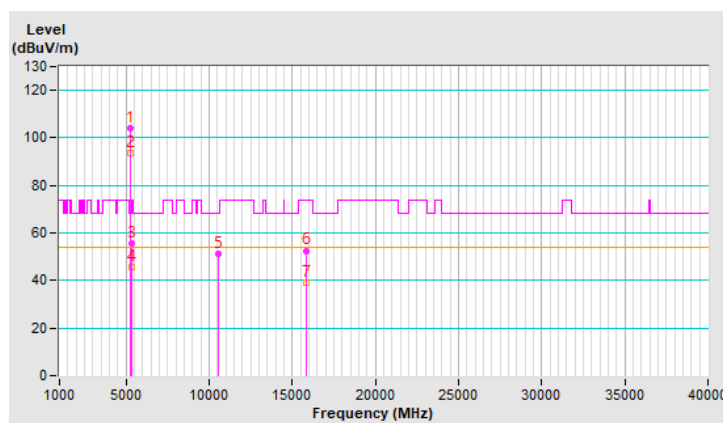


RF Mode	TX 802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	104.2 PK			1.54 H	45	99.9	4.3
2	*5290.00	93.4 AV			1.54 H	45	89.1	4.3
3	5350.00	55.8 PK	74.0	-18.2	1.54 H	45	51.2	4.6
4	5350.00	45.7 AV	54.0	-8.3	1.54 H	45	41.1	4.6
5	#10580.00	51.1 PK	68.2	-17.1	1.65 H	175	36.8	14.3
6	15870.00	52.6 PK	74.0	-21.4	1.64 H	144	38.8	13.8
7	15870.00	39.0 AV	54.0	-15.0	1.64 H	144	25.2	13.8

Remarks:

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

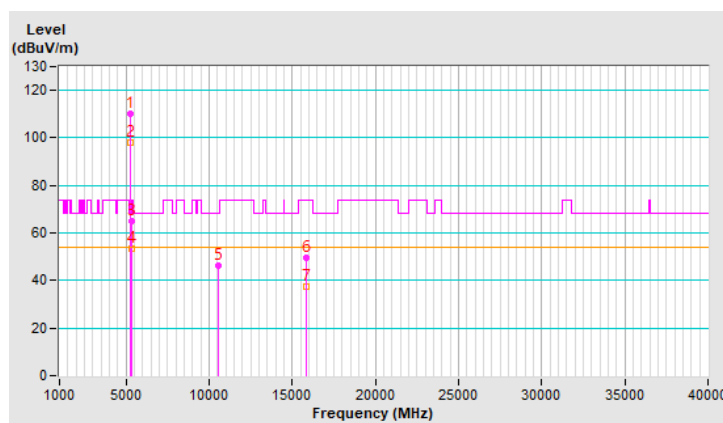


RF Mode	TX 802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	110.1 PK			1.68 V	290	105.8	4.3
2	*5290.00	98.2 AV			1.68 V	290	93.9	4.3
3	5350.91	65.0 PK	74.0	-9.0	1.68 V	290	60.4	4.6
4	5350.91	53.3 AV	54.0	-0.7	1.68 V	290	48.7	4.6
5	#10580.00	46.5 PK	68.2	-21.7	1.96 V	248	32.2	14.3
6	15870.00	49.5 PK	74.0	-24.5	1.57 V	275	35.7	13.8
7	15870.00	37.5 AV	54.0	-16.5	1.57 V	275	23.7	13.8

Remarks:

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

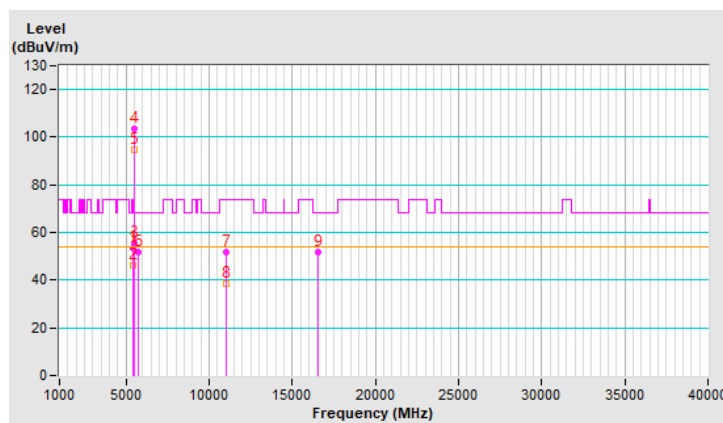


RF Mode	TX 802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	53.5 PK	74.0	-20.5	1.48 H	76	48.7	4.8
2	5460.00	46.2 AV	54.0	-7.8	1.48 H	76	41.4	4.8
3	#5465.19	55.4 PK	68.2	-12.8	1.48 H	76	50.6	4.8
4	*5530.00	103.6 PK			1.48 H	76	98.8	4.8
5	*5530.00	94.5 AV			1.48 H	76	89.7	4.8
6	#5725.00	51.8 PK	68.2	-16.4	1.48 H	76	46.9	4.9
7	11060.00	51.7 PK	74.0	-22.3	1.67 H	174	37.1	14.6
8	11060.00	38.5 AV	54.0	-15.5	1.67 H	174	23.9	14.6
9	#16590.00	51.8 PK	68.2	-16.4	1.52 H	167	35.9	15.9

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.

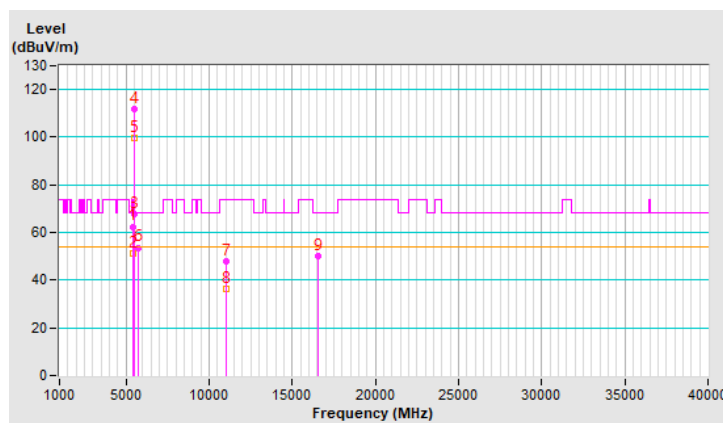


RF Mode	TX 802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	5455.68	62.5 PK	74.0	-11.5	1.66 V	281	57.7	4.8
2	5455.68	51.3 AV	54.0	-2.7	1.66 V	281	46.5	4.8
3	#5470.00	67.8 PK	68.2	-0.4	1.66 V	281	63.0	4.8
4	*5530.00	111.9 PK			1.66 V	281	107.1	4.8
5	*5530.00	99.8 AV			1.66 V	281	95.0	4.8
6	#5725.00	53.7 PK	68.2	-14.5	1.66 V	281	48.8	4.9
7	11060.00	47.9 PK	74.0	-26.1	2.04 V	235	33.3	14.6
8	11060.00	36.5 AV	54.0	-17.5	2.04 V	235	21.9	14.6
9	#16590.00	50.2 PK	68.2	-18.0	1.67 V	304	34.3	15.9

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.

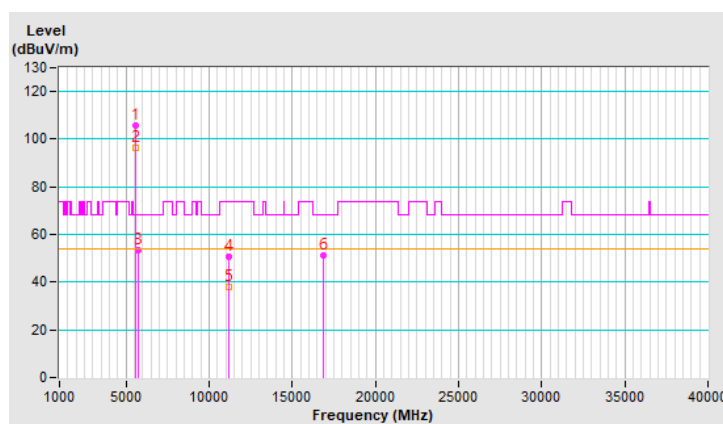


RF Mode	TX 802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	*5610.00	105.6 PK			1.56 H	44	100.7	4.9
2	*5610.00	96.2 AV			1.56 H	44	91.3	4.9
3	#5725.00	53.4 PK	68.2	-14.8	1.56 H	44	48.5	4.9
4	11220.00	50.9 PK	74.0	-23.1	1.70 H	153	36.2	14.7
5	11220.00	38.0 AV	54.0	-16.0	1.70 H	153	23.3	14.7
6	#16830.00	51.3 PK	68.2	-16.9	1.56 H	151	34.1	17.2

Remarks:

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

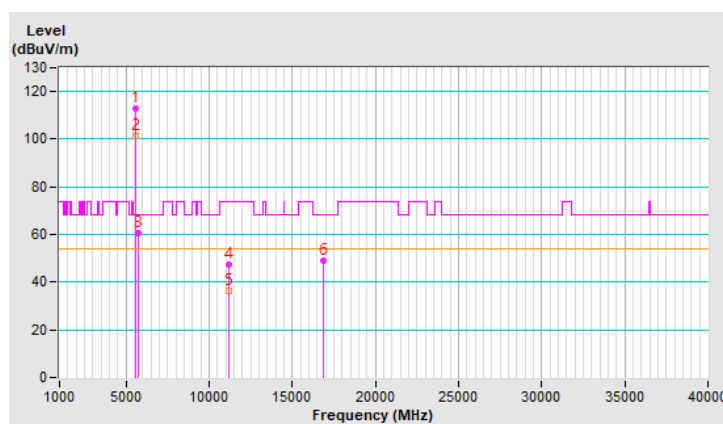


RF Mode	TX 802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	*5610.00	112.8 PK			1.72 V	294	107.9	4.9
2	*5610.00	101.1 AV			1.72 V	294	96.2	4.9
3	#5725.00	60.7 PK	68.2	-7.5	1.72 V	294	55.8	4.9
4	11220.00	47.2 PK	74.0	-26.8	1.87 V	225	32.5	14.7
5	11220.00	36.3 AV	54.0	-17.7	1.87 V	225	21.6	14.7
6	#16830.00	49.0 PK	68.2	-19.2	1.67 V	315	31.8	17.2

Remarks:

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

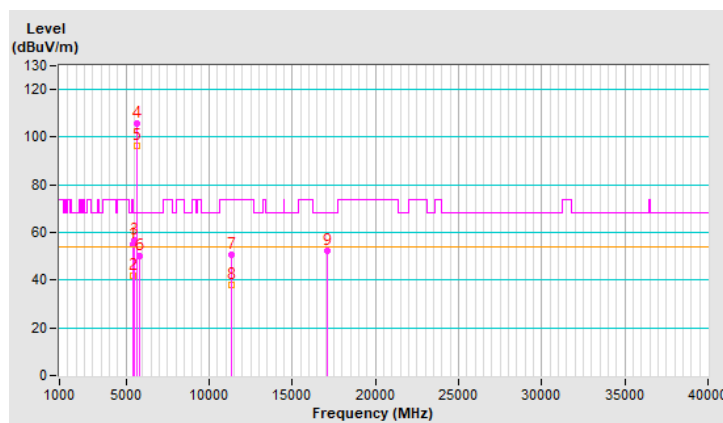


RF Mode	TX 802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	54.9 PK	74.0	-19.1	1.55 H	64	50.1	4.8
2	5460.00	42.0 AV	54.0	-12.0	1.55 H	64	37.2	4.8
3	#5470.00	56.5 PK	68.2	-11.7	1.55 H	64	51.7	4.8
4	*5690.00	105.7 PK			1.55 H	64	101.0	4.7
5	*5690.00	96.2 AV			1.55 H	64	91.5	4.7
6	#5850.00	50.3 PK	68.2	-17.9	1.55 H	64	45.0	5.3
7	11380.00	50.7 PK	74.0	-23.3	1.62 H	183	35.3	15.4
8	11380.00	38.2 AV	54.0	-15.8	1.62 H	183	22.8	15.4
9	#17070.00	52.1 PK	68.2	-16.1	1.68 H	167	33.7	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.

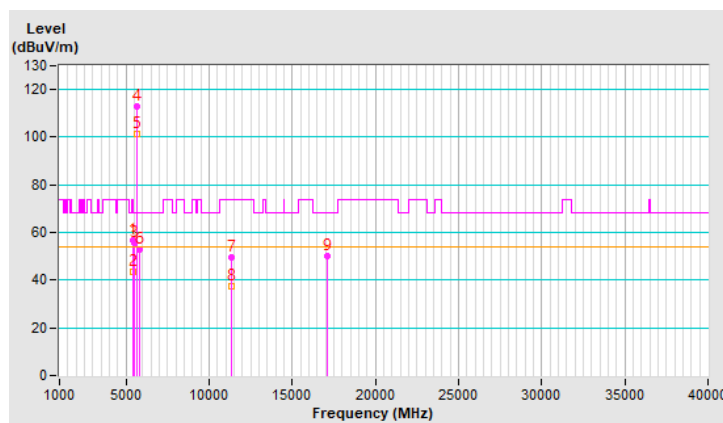


RF Mode	TX 802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	56.5 PK	74.0	-17.5	1.69 V	281	51.7	4.8
2	5460.00	43.5 AV	54.0	-10.5	1.69 V	281	38.7	4.8
3	#5470.00	55.6 PK	68.2	-12.6	1.69 V	281	50.8	4.8
4	*5690.00	113.1 PK			1.69 V	281	108.4	4.7
5	*5690.00	101.3 AV			1.69 V	281	96.6	4.7
6	#5850.00	52.8 PK	68.2	-15.4	1.69 V	281	47.5	5.3
7	11380.00	49.5 PK	74.0	-24.5	1.64 V	233	34.1	15.4
8	11380.00	37.4 AV	54.0	-16.6	1.64 V	233	22.0	15.4
9	#17070.00	49.9 PK	68.2	-18.3	1.81 V	258	31.5	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.

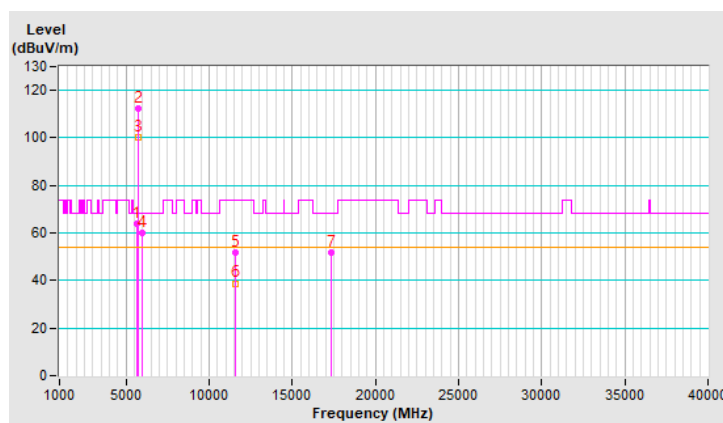


RF Mode	TX 802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	#5645.32	63.8 PK	68.2	-4.4	1.69 H	84	58.9	4.9
2	*5775.00	112.1 PK			1.69 H	84	106.9	5.2
3	*5775.00	100.2 AV			1.69 H	84	95.0	5.2
4	#5943.17	60.1 PK	68.2	-8.1	1.69 H	84	54.6	5.5
5	11550.00	51.7 PK	74.0	-22.3	1.69 H	146	36.7	15.0
6	11550.00	38.8 AV	54.0	-15.2	1.69 H	146	23.8	15.0
7	#17325.00	51.6 PK	68.2	-16.6	1.62 H	146	32.8	18.8

Remarks:

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

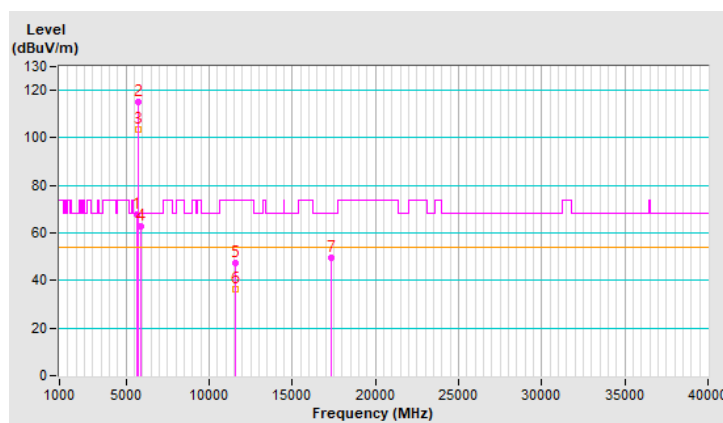


RF Mode	TX 802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.47	67.5 PK	68.2	-0.7	1.66 V	276	62.6	4.9
2	*5775.00	115.2 PK			1.66 V	276	110.0	5.2
3	*5775.00	103.6 AV			1.66 V	276	98.4	5.2
4	#5925.63	62.9 PK	68.2	-5.3	1.66 V	276	57.4	5.5
5	11550.00	47.3 PK	74.0	-26.7	1.94 V	248	32.3	15.0
6	11550.00	36.2 AV	54.0	-17.8	1.94 V	248	21.2	15.0
7	#17325.00	49.5 PK	68.2	-18.7	1.67 V	301	30.7	18.8

Remarks:

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

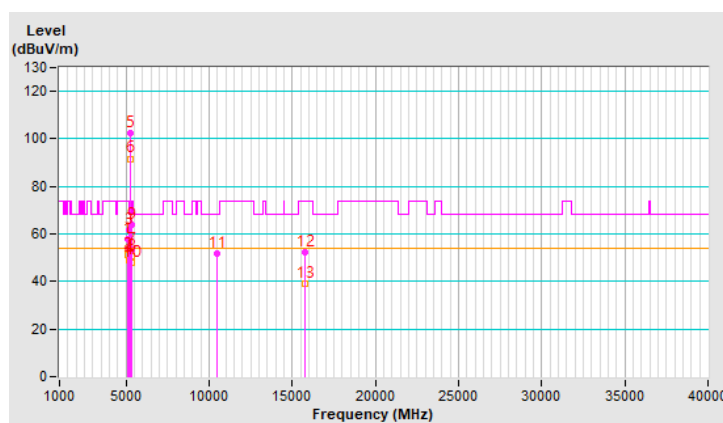


RF Mode	TX 802.11ax (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	5117.31	57.8 PK	74.0	-16.2	1.60 H	61	53.0	4.8
2	5117.31	51.1 AV	54.0	-2.9	1.60 H	61	46.3	4.8
3	5146.79	61.9 PK	74.0	-12.1	1.60 H	61	57.1	4.8
4	5146.79	49.0 AV	54.0	-5.0	1.60 H	61	44.2	4.8
5	*5250.00	102.4 PK			1.60 H	61	98.0	4.4
6	*5250.00	91.7 AV			1.60 H	61	87.3	4.4
7	5369.13	53.3 PK	74.0	-20.7	1.60 H	61	48.7	4.6
8	5369.13	50.5 AV	54.0	-3.5	1.60 H	61	45.9	4.6
9	5380.82	64.0 PK	74.0	-10.0	1.60 H	61	59.3	4.7
10	5380.82	47.9 AV	54.0	-6.1	1.60 H	61	43.2	4.7
11	#10500.00	52.0 PK	68.2	-16.2	1.65 H	156	37.5	14.5
12	15750.00	52.5 PK	74.0	-21.5	1.61 H	138	39.0	13.5
13	15750.00	39.0 AV	54.0	-15.0	1.61 H	138	25.5	13.5

Remarks:

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

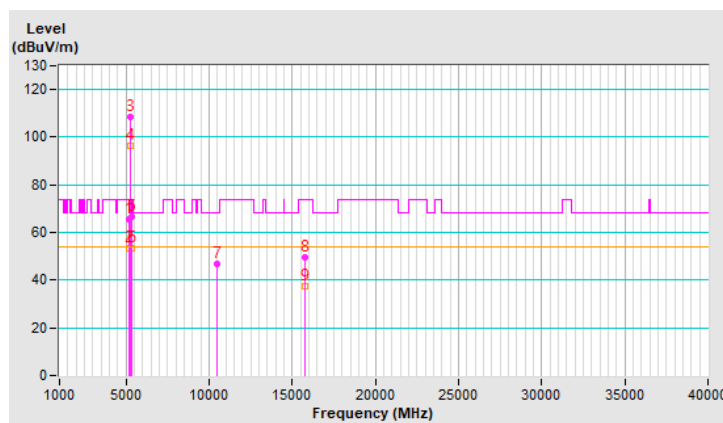


RF Mode	TX 802.11ax (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	5145.06	65.3 PK	74.0	-8.7	1.61 V	272	60.5	4.8
2	5145.06	53.5 AV	54.0	-0.5	1.61 V	272	48.7	4.8
3	*5250.00	108.5 PK			1.61 V	272	104.1	4.4
4	*5250.00	96.2 AV			1.61 V	272	91.8	4.4
5	5350.89	66.5 PK	74.0	-7.5	1.61 V	272	61.9	4.6
6	5350.89	53.4 AV	54.0	-0.6	1.61 V	272	48.8	4.6
7	#10500.00	46.7 PK	68.2	-21.5	1.99 V	218	32.2	14.5
8	15750.00	49.5 PK	74.0	-24.5	1.74 V	297	36.0	13.5
9	15750.00	37.4 AV	54.0	-16.6	1.74 V	297	23.9	13.5

Remarks:

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

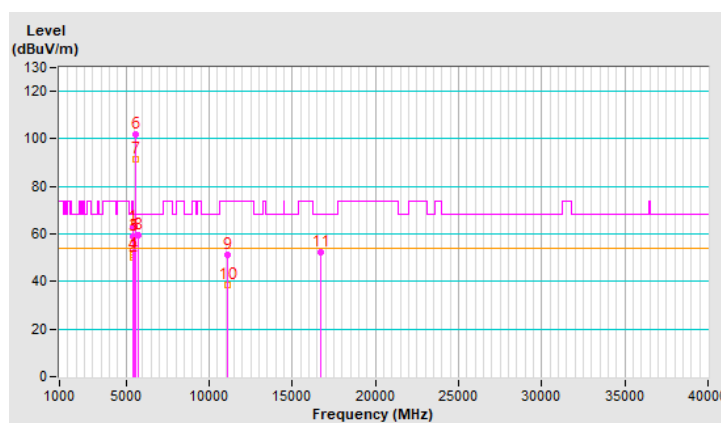


RF Mode	TX 802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

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	5400.12	62.9 PK	74.0	-11.1	1.53 H	43	58.2	4.7
2	5400.12	50.1 AV	54.0	-3.9	1.53 H	43	45.4	4.7
3	5429.91	58.9 PK	74.0	-15.1	1.53 H	43	54.2	4.7
4	5429.91	51.4 AV	54.0	-2.6	1.53 H	43	46.7	4.7
5	#5464.95	58.8 PK	68.2	-9.4	1.53 H	43	54.0	4.8
6	*5570.00	101.7 PK			1.53 H	43	96.9	4.8
7	*5570.00	91.4 AV			1.53 H	43	86.6	4.8
8	#5725.53	59.4 PK	68.2	-8.8	1.53 H	43	54.5	4.9
9	11140.00	51.3 PK	74.0	-22.7	1.72 H	193	36.7	14.6
10	11140.00	38.4 AV	54.0	-15.6	1.72 H	193	23.8	14.6
11	#16710.00	52.1 PK	68.2	-16.1	1.58 H	158	35.5	16.6

Remarks:

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

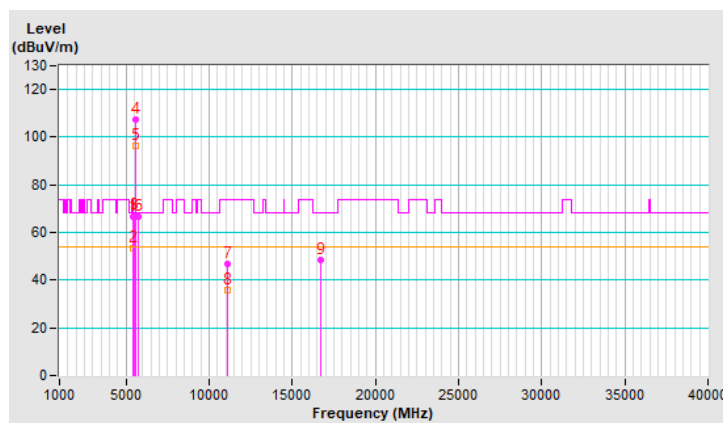


RF Mode	TX 802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 65% RH
Tested By	Nelson Teng		

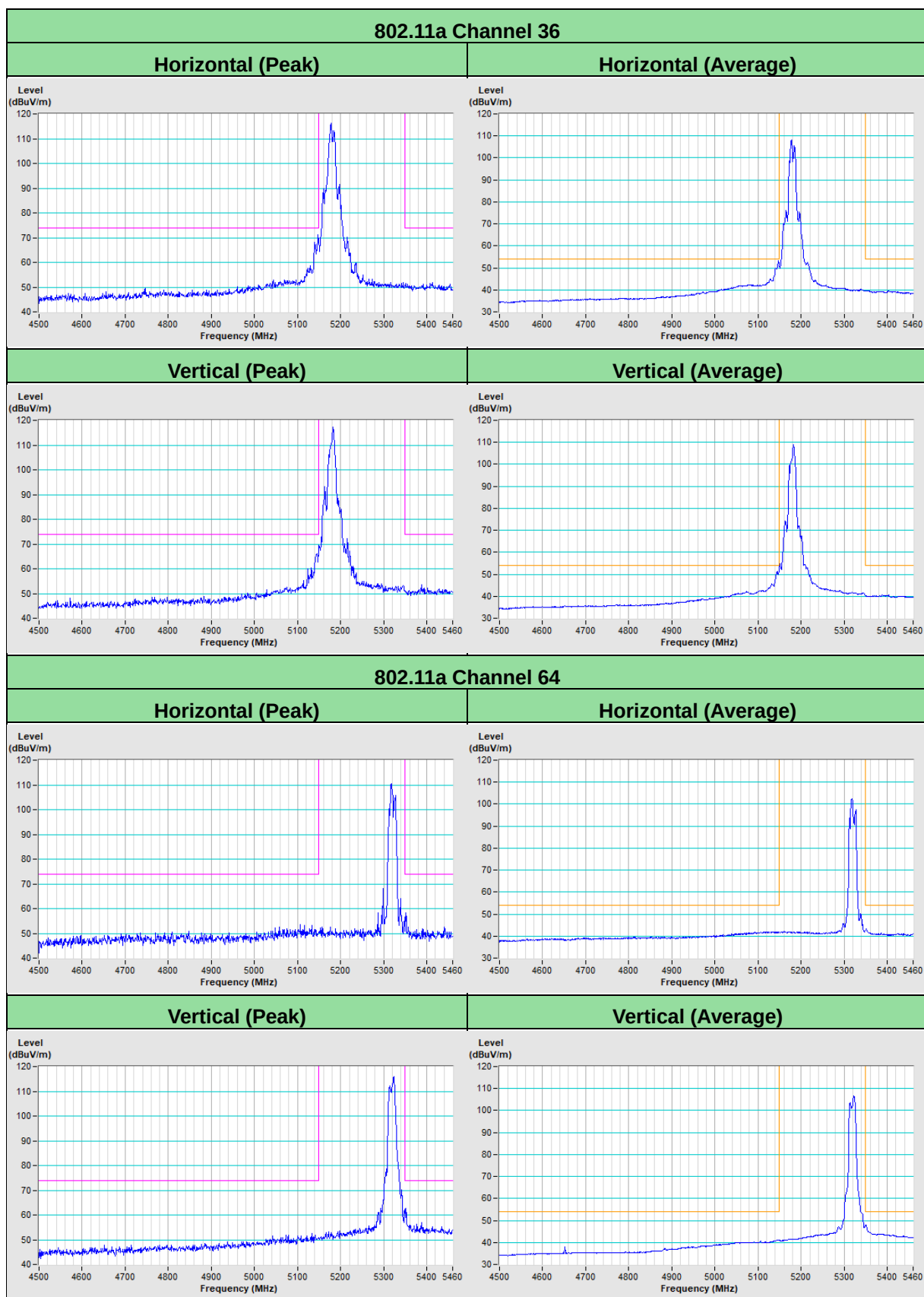
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5420.33	66.6 PK	74.0	-7.4	1.66 V	282	61.9	4.7
2	5420.33	53.3 AV	54.0	-0.7	1.66 V	282	48.6	4.7
3	#5460.62	66.9 PK	68.2	-1.3	1.66 V	282	62.1	4.8
4	*5570.00	107.4 PK			1.66 V	282	102.6	4.8
5	*5570.00	96.5 AV			1.66 V	282	91.7	4.8
6	#5725.00	66.7 PK	68.2	-1.5	1.66 V	282	61.8	4.9
7	11140.00	46.9 PK	74.0	-27.1	1.93 V	233	32.3	14.6
8	11140.00	35.8 AV	54.0	-18.2	1.93 V	233	21.2	14.6
9	#16710.00	48.5 PK	68.2	-19.7	1.63 V	273	31.9	16.6

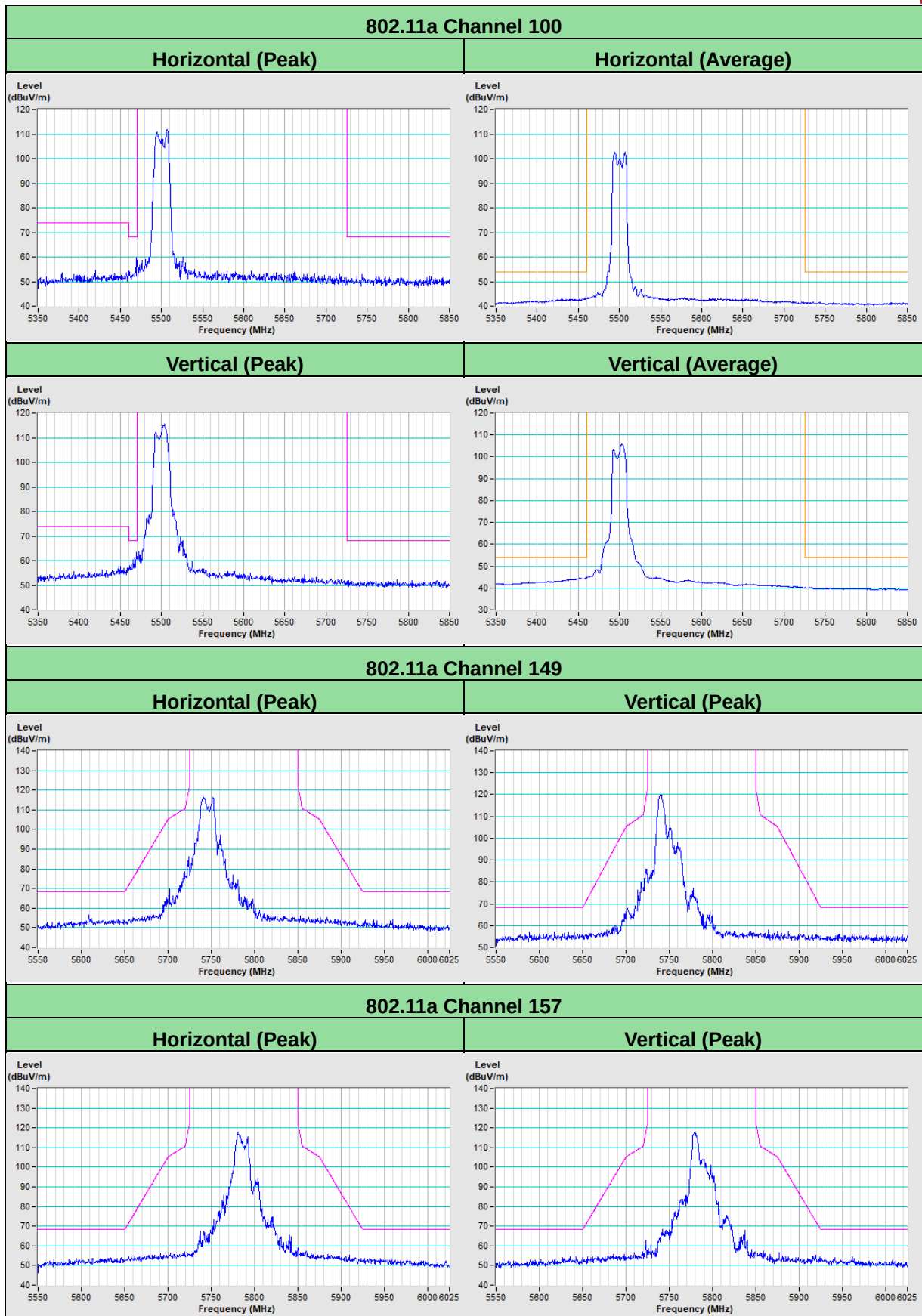
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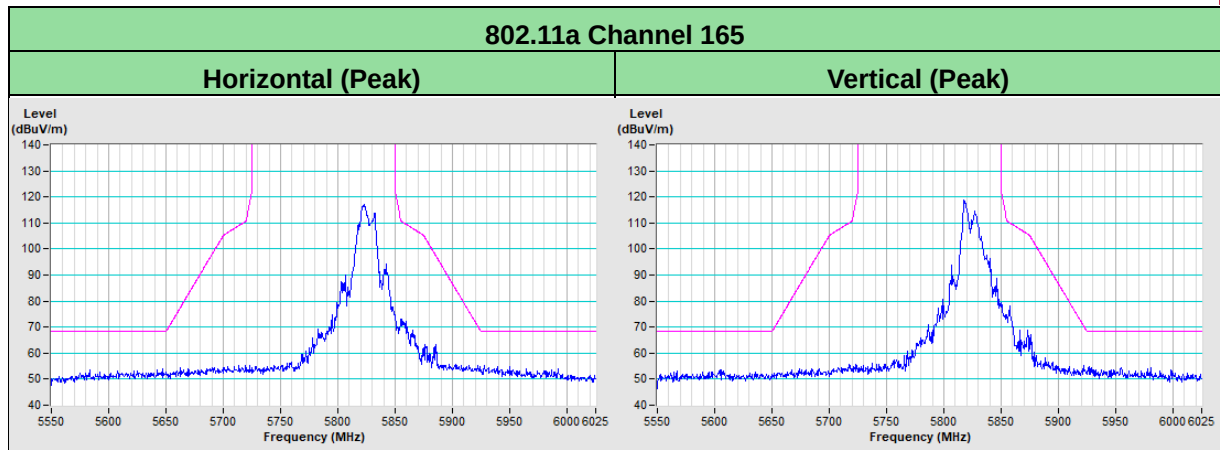
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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

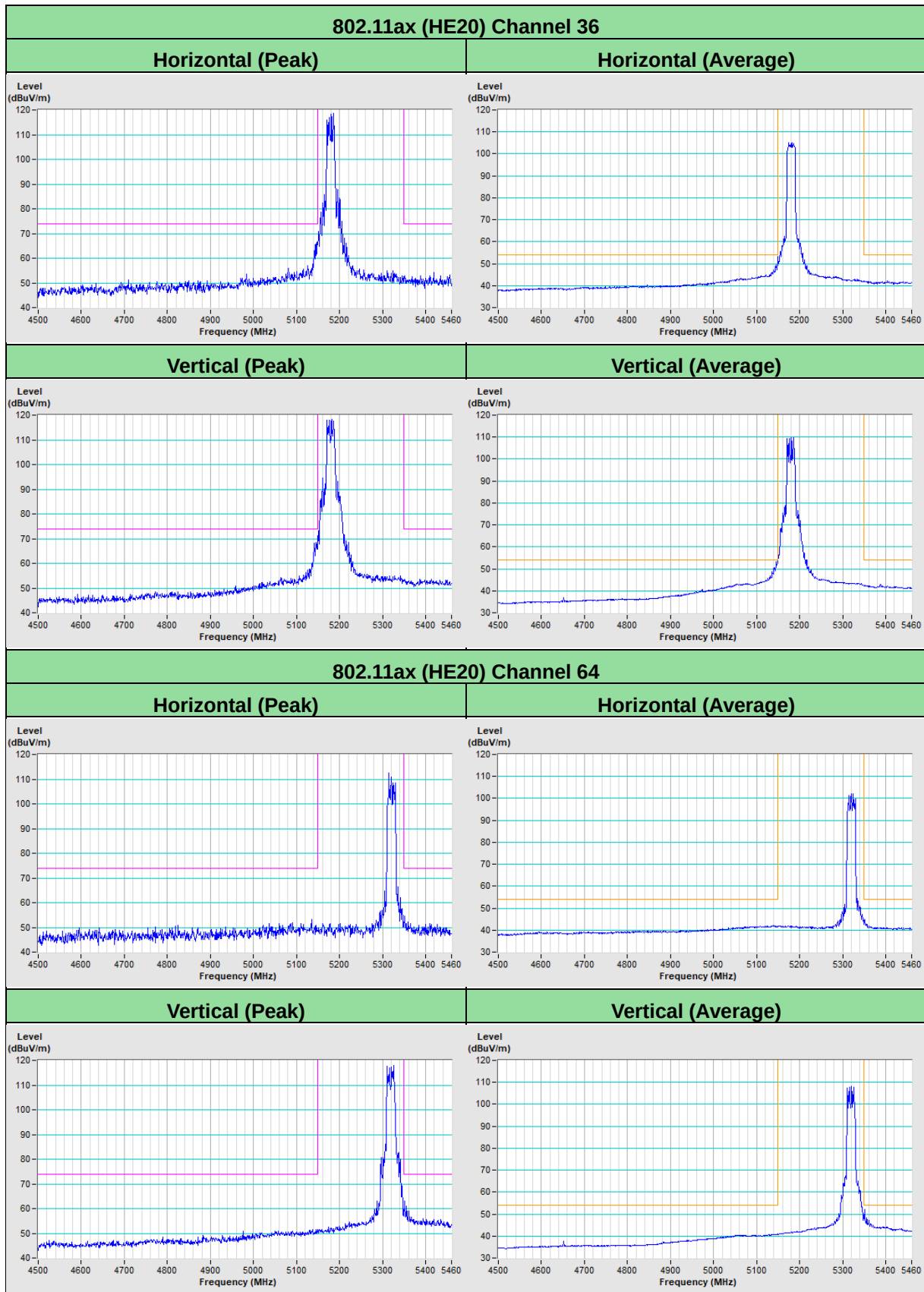


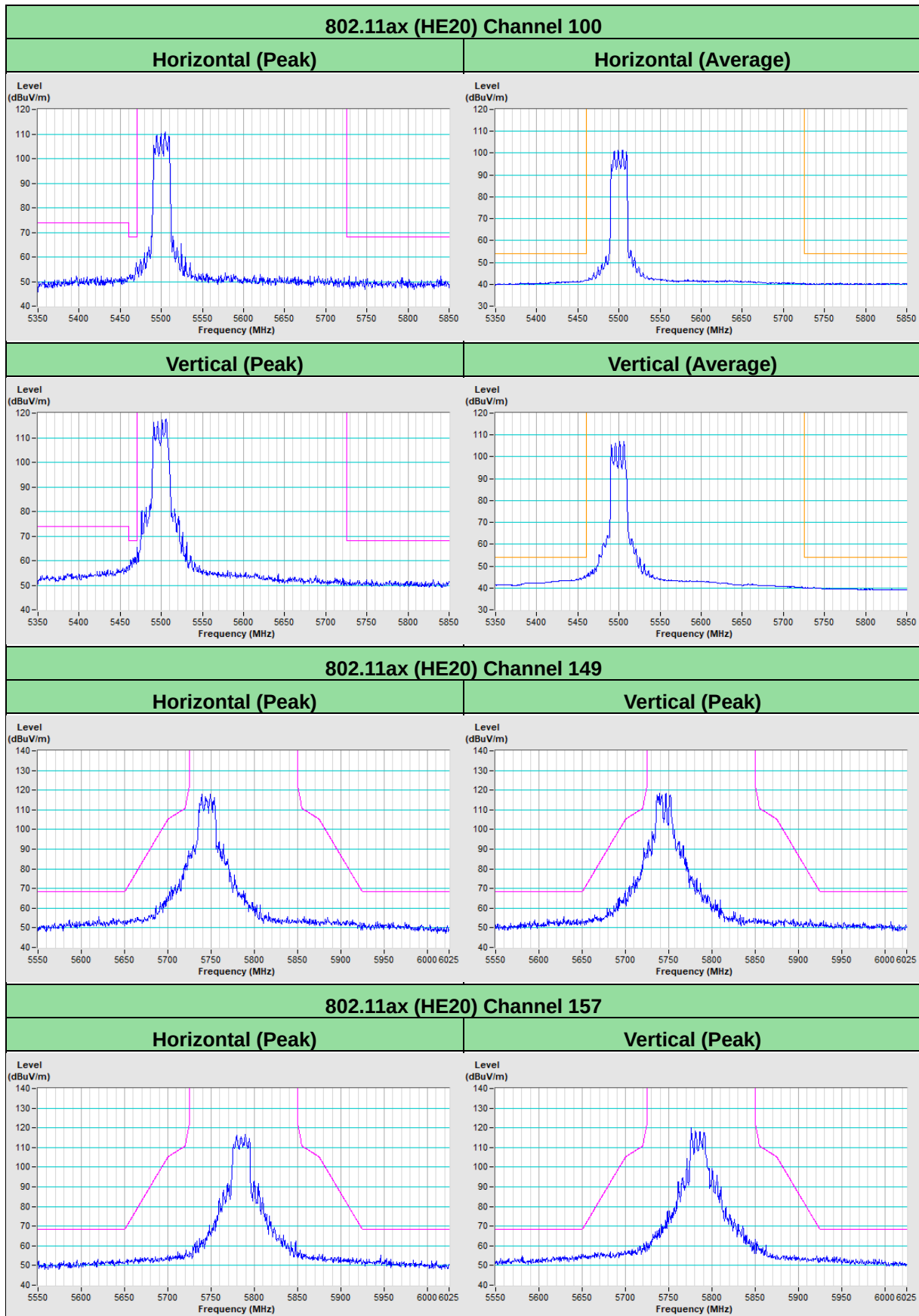
Mode A_Plot of Band Edge

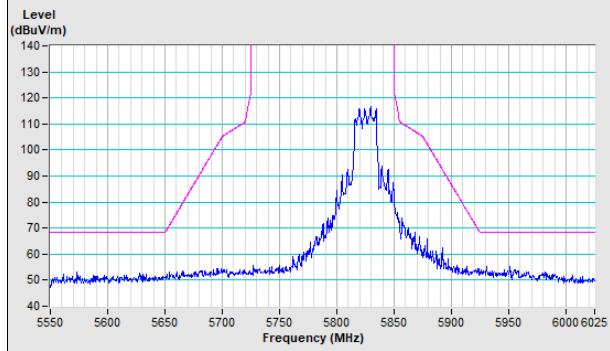
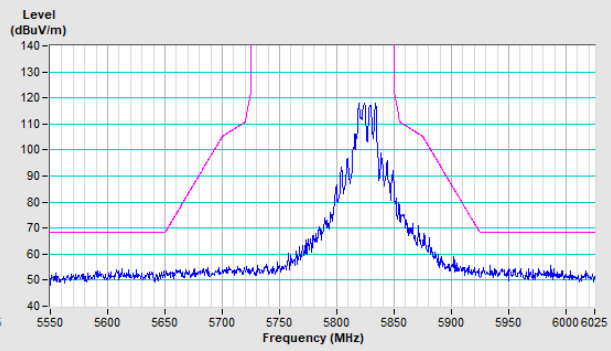


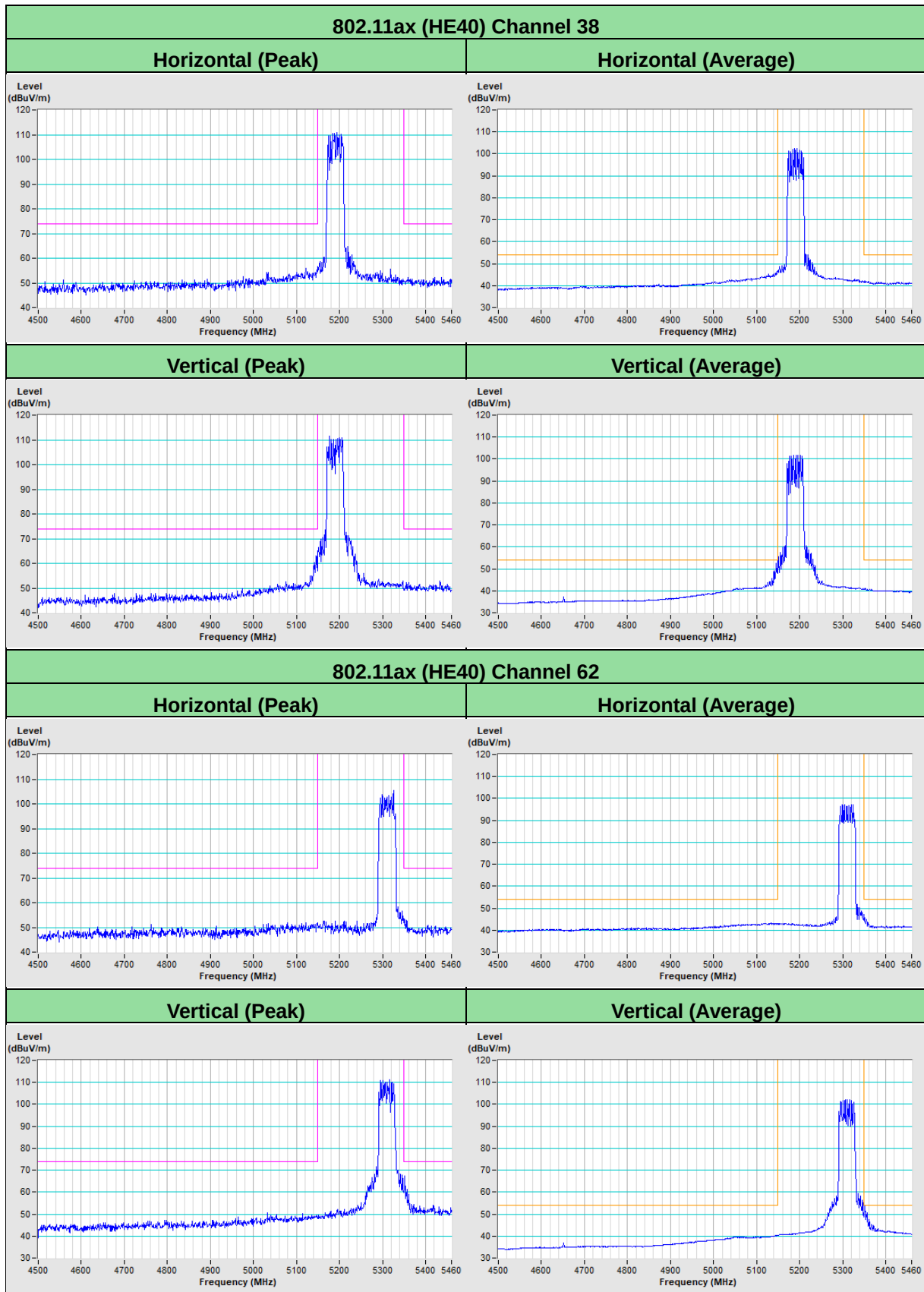


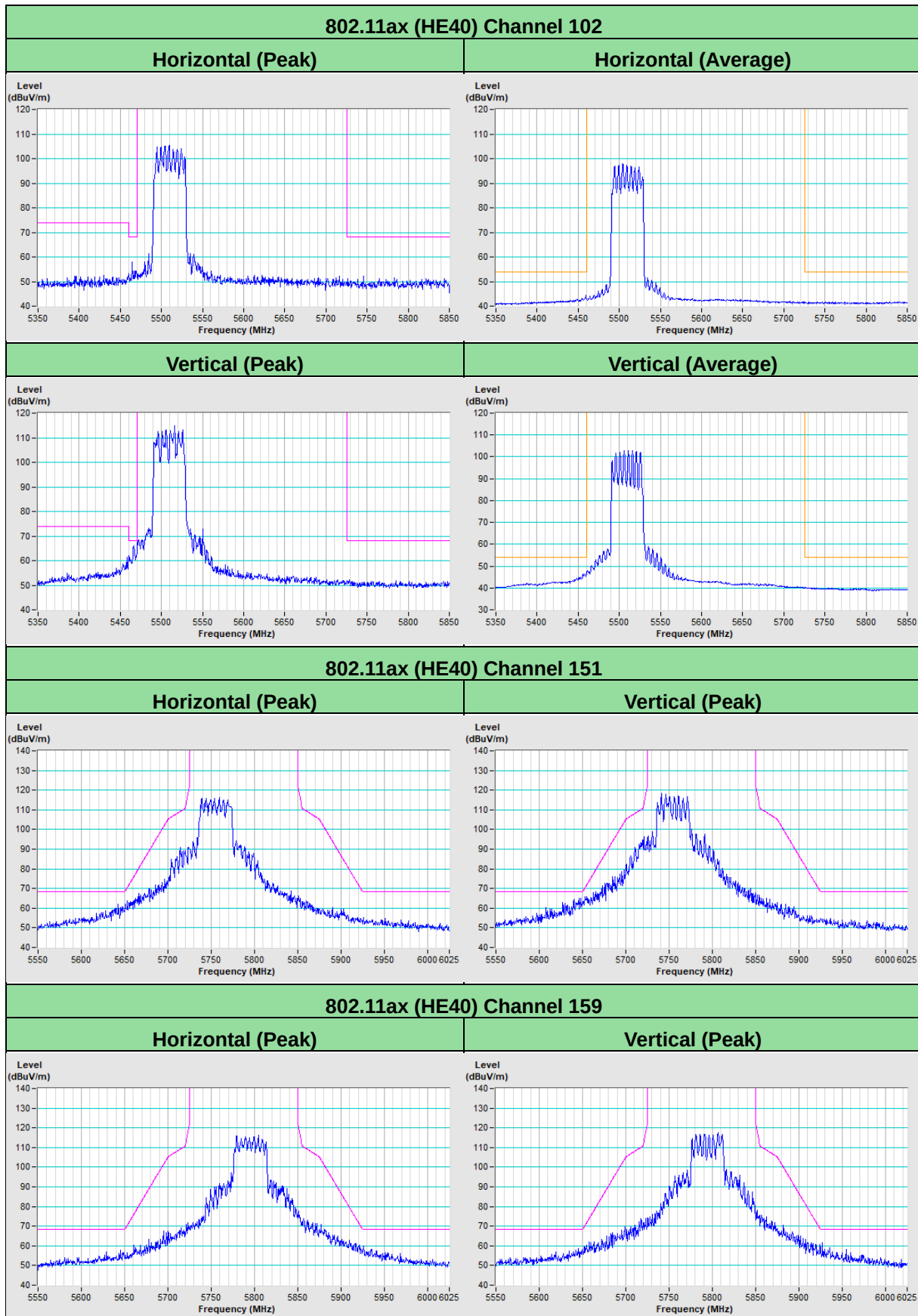


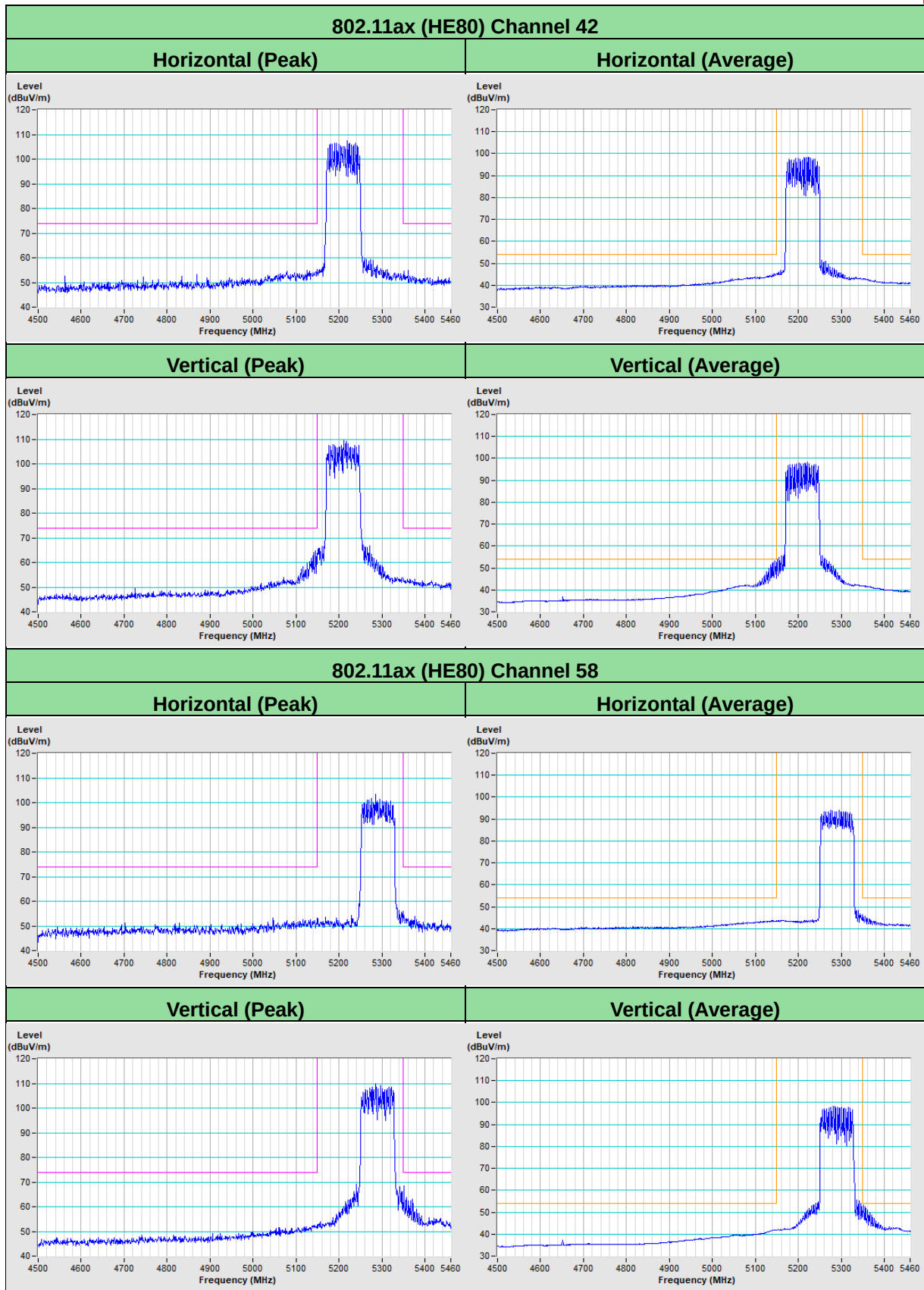


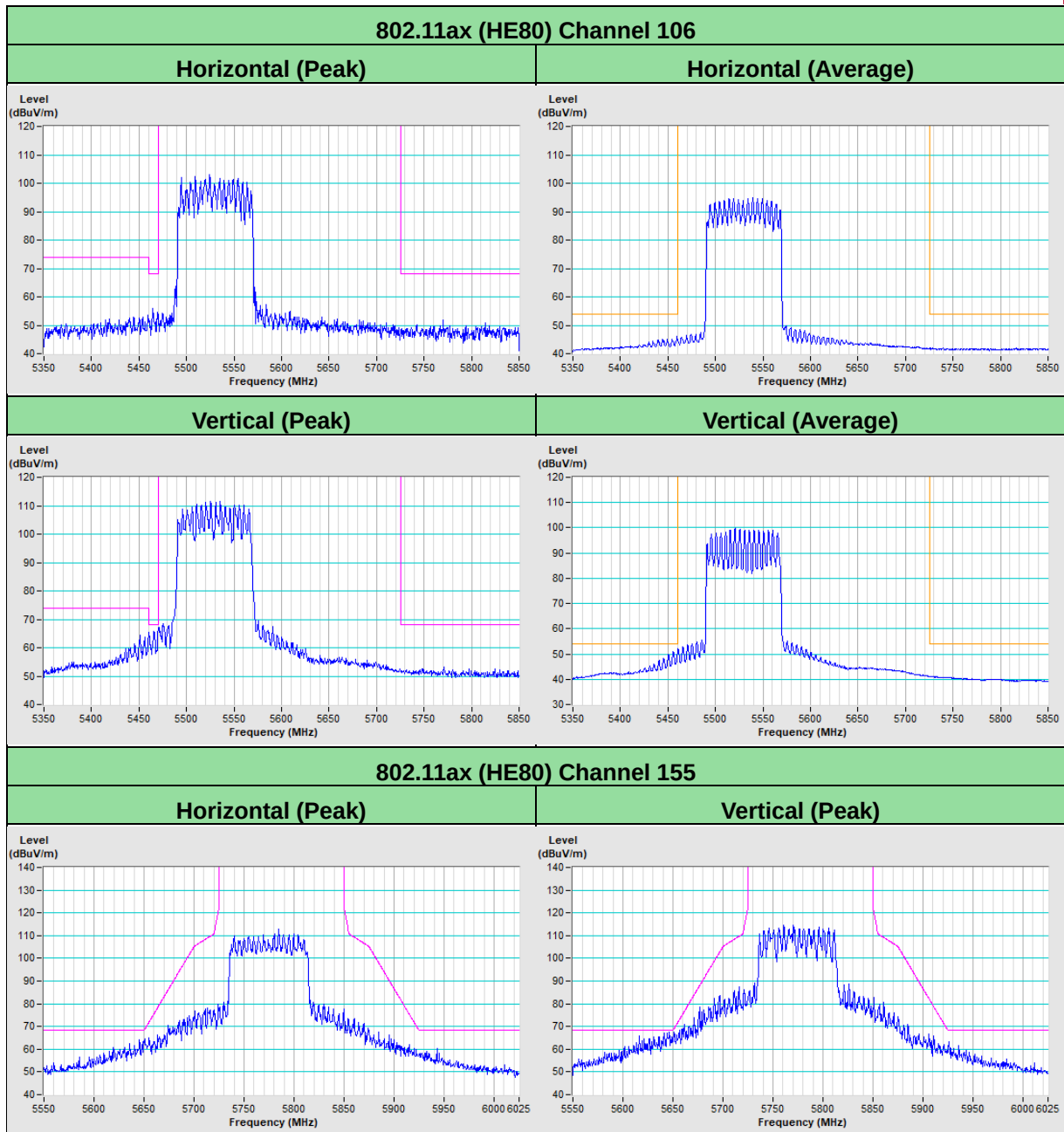


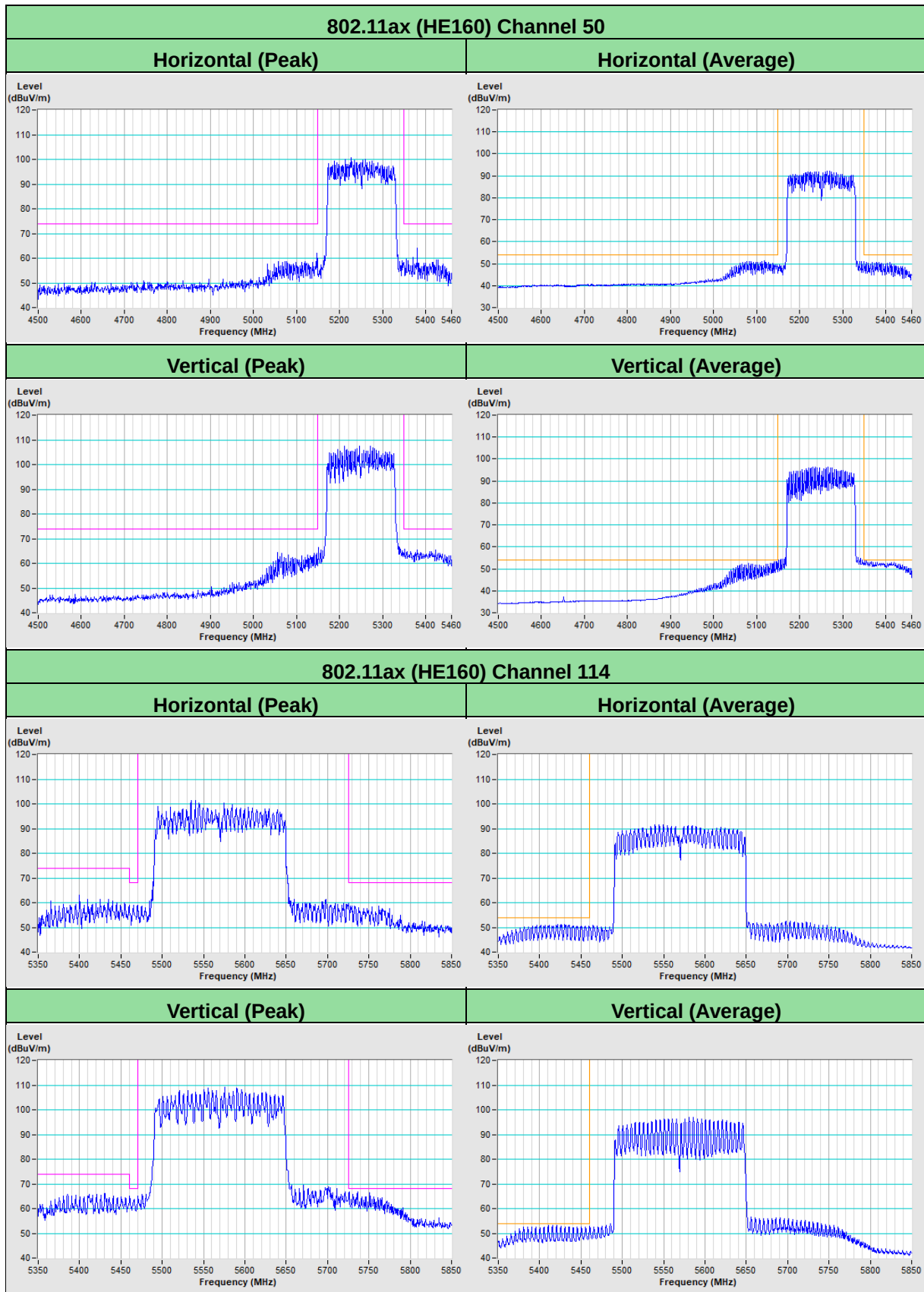
802.11ax (HE20) Channel 165**Horizontal (Peak)****Vertical (Peak)**











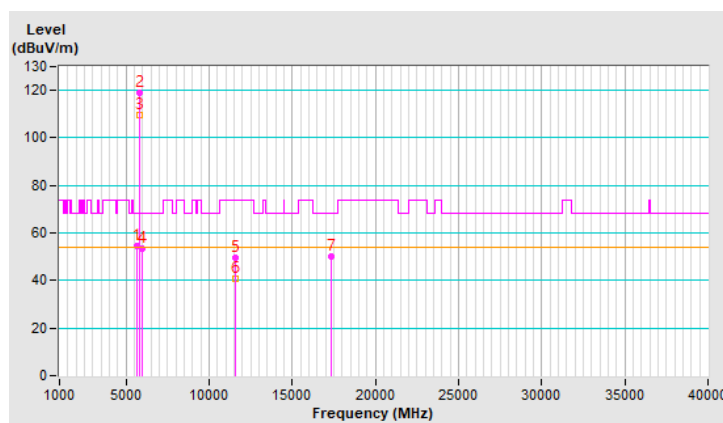
Mode B

RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20°C, 70% RH
Tested By	Nelson Teng		

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	#5647.63	54.4 PK	68.2	-13.8	1.77 H	87	49.5	4.9
2	*5785.00	119.2 PK			1.77 H	87	114.0	5.2
3	*5785.00	109.6 AV			1.77 H	87	104.4	5.2
4	#5957.89	53.4 PK	68.2	-14.8	1.77 H	87	47.9	5.5
5	11570.00	49.6 PK	74.0	-24.4	1.90 H	188	34.5	15.1
6	11570.00	40.5 AV	54.0	-13.5	1.90 H	188	25.4	15.1
7	#17355.00	49.9 PK	68.2	-18.3	1.63 H	192	31.0	18.9

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.

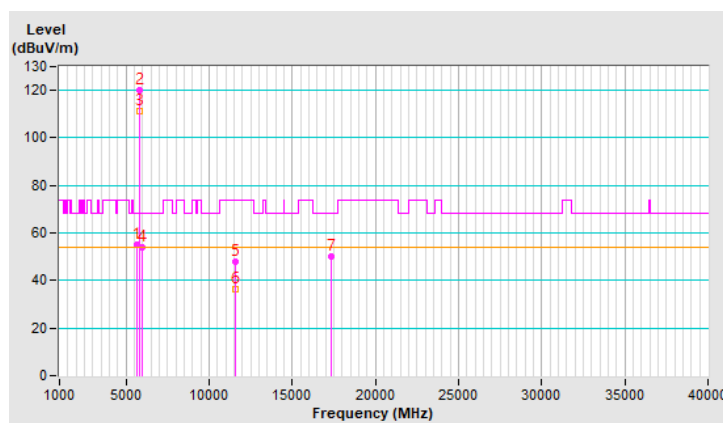


RF Mode	TX 802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	20°C, 70% RH
Tested By	Nelson Teng		

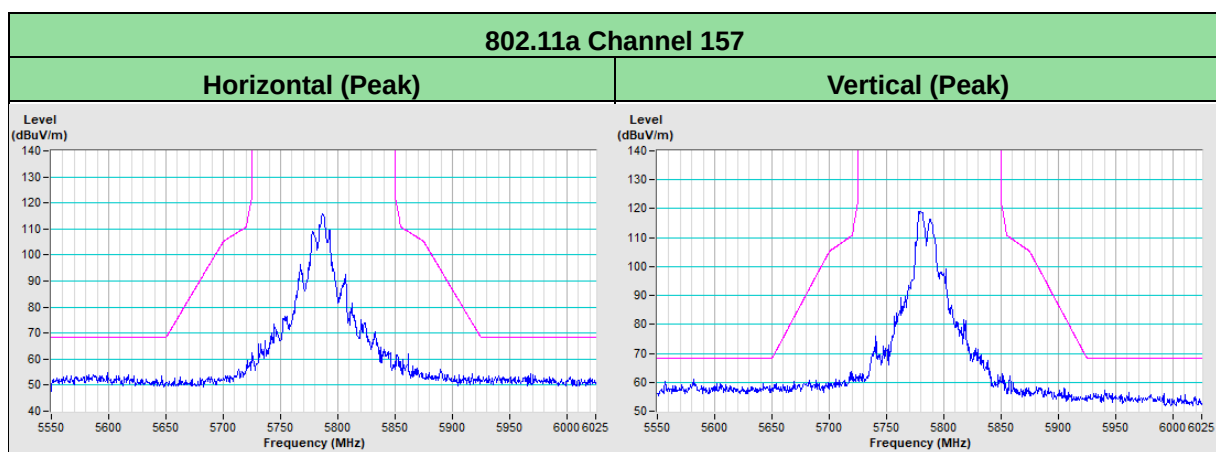
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5635.29	55.2 PK	68.2	-13.0	1.70 V	233	50.3	4.9
2	*5785.00	120.3 PK			1.70 V	233	115.1	5.2
3	*5785.00	111.2 AV			1.70 V	233	106.0	5.2
4	#5961.47	54.2 PK	68.2	-14.0	1.70 V	233	48.7	5.5
5	11570.00	47.7 PK	74.0	-26.3	2.00 V	232	32.6	15.1
6	11570.00	36.1 AV	54.0	-17.9	2.00 V	232	21.0	15.1
7	#17355.00	49.9 PK	68.2	-18.3	1.64 V	281	31.0	18.9

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.



Mode B_Plot of Band Edge



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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Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

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Email: service.adt@bureauveritas.com

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

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

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