

# TEST REPORT

## CERTIFICATE OF CONFORMITY

**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)  
**Report No.:** RFCJDL-WTW-P23120588-2  
**FCC ID:** M72-STG62R  
**Product:** Studio G62  
**Brand:** Poly  
**Model No.:** PBJ-STG-62R  
**Received Date:** 2024/1/16  
**Test Date:** 2024/2/28 ~ 2024/3/15  
**Issued Date:** 2024/4/23

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

**Approved by:** Jeremy Lin , **Date:** 2024/4/23  
Jeremy Lin / Project Engineer

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Prepared by : Pettie Chen / Senior Specialist



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## Table of Contents

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



6.7.1	Test Setup .....	26
6.7.2	Test Procedure .....	26
6.8	Unwanted Emissions below 1 GHz .....	27
6.8.1	Test Setup .....	27
6.8.2	Test Procedure .....	28
6.9	Unwanted Emissions above 1 GHz .....	29
6.9.1	Test Setup .....	29
6.9.2	Test Procedure .....	29
<b>7</b>	<b>Test Results of Test Item .....</b>	<b>30</b>
7.1	26 dB Bandwidth .....	30
7.2	RF Output Power .....	34
7.3	Power Spectral Density .....	44
7.4	6 dB Bandwidth .....	50
7.5	Occupied Bandwidth .....	52
7.6	Frequency Stability .....	58
7.7	AC Power Conducted Emissions .....	59
7.8	Unwanted Emissions below 1 GHz .....	61
7.9	Unwanted Emissions above 1 GHz .....	63
<b>8</b>	<b>Pictures of Test Arrangements .....</b>	<b>131</b>
<b>9</b>	<b>Information of the Testing Laboratories .....</b>	<b>132</b>

## Release Control Record

Issue No.	Description	Date Issued
RFCJDL-WTW-P23120588-2	Original release.	2024/4/23

## 1 Certificate

**Product:** Studio G62

**Brand:** Poly

**Test Model:** PBJ-STG-62R

**Sample Status:** Engineering sample

**Applicant:** HP Inc.

**Test Date:** 2024/2/28 ~ 2024/3/15

**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) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -8.70 dB at 0.47000 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -6.5 dB at 69.77 and 167.74 MHz
15.407(b) (1/10) 15.407(b) (2/10) 15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -3.3 dB at 10640.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

### Notes:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. The "Dynamic Frequency Selection measurement" was recorded in DFS test report.

### 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) (±)
26 dB Bandwidth	-	206.5 Hz
RF Output Power	-	1.371 dB
Power Spectral Density	-	1.017 dB
6 dB Bandwidth	-	206.5 Hz
Occupied Bandwidth	-	72 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.88 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.44 dB
	30 MHz ~ 1 GHz	2.95 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 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	Studio G62
Brand	Poly
Test Model	PBJ-STG-62R
Status of EUT	Engineering sample
Power Supply Rating	56Vdc from PoE
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	Up to MCS11
Operating Frequency	5.18 GHz ~ 5.24 GHz 5.26 GHz ~ 5.32 GHz 5.5 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6
Output Power	5.18 GHz ~ 5.24 GHz : 21.074 mW (13.24 dBm) 5.26 GHz ~ 5.32 GHz : 23.444 mW (13.70 dBm) 5.5 GHz ~ 5.72 GHz : 15.757 mW (11.97 dBm) 5.745 GHz ~ 5.825 GHz : 15.768 mW (11.98 dBm)
EUT Category	Client device

Note:

1. The EUT uses following accessories.

POE Injector 2.5G (option)	
Brand	Model
Delta	ADH-45AR FBA
RJ-45 Cable (accessory)	
Model (P/N)	Specification
2457-06173-001	Signal Line : 3.6m
HDMI (accessory)	
Model (P/N)	Specification
2457-28808-006	Signal Line : 1.95m
Power cord (option)	
Specification	
Signal Line : 2.63m	
RJ-45 Cable (option) (provided with PoE kit box – cable for Zappa PoE Injector)	
Model (P/N)	Specification
2457-06174-001	Signal Line : 0.23m

2. The Bluetooth and WLAN cannot transmit simultaneously.

3. 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.

Antenna No.	Gain (dBi)									Antenna Type	Connector Type
	2400 MHz	2450 MHz	2500 MHz	5150 MHz	5350 MHz	5450 MHz	5550 MHz	5750 MHz	5850 MHz		
0	3.03	3.12	3.04	3.03	3.01	3.04	3.11	3.12	2.98	Dipole	ipex(MHF)
1	3.02	3.13	3.09	2.93	3.12	3.04	3.15	2.94	2.95	Dipole	ipex(MHF)

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

2. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX

Note:

- The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz), therefore the manufacturer will control the power for 802.11n/ac mode is same as the 802.11ax mode or 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), 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), 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), 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

#### FOR 5500 ~ 5720 MHz

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 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), 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), 802.11ax (HE80):

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

**FOR 5745 ~ 5825 MHz:**

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 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), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

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

Channel	Frequency
155	5775 MHz

### 3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	1. X-axis/ Y-axis/ Z-axis Worst Condition: Z-axis

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

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11ax (HE20)	CDD	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11ax (HE40)	CDD	54, 62, 102, 110, 134, 142	BPSK	MCS0
	802.11ax (HE80)	CDD	58, 106, 122, 138	BPSK	MCS0
RF Output Power	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11n (HT20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11n (HT40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT20)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ac (VHT40)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ac (VHT80)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	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	
Power Spectral Density	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

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
6 dB Bandwidth	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
Occupied Bandwidth	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
Frequency Stability	802.11a	-	36	unmodulated	-
AC Power Conducted Emissions	802.11ax (HE80)	CDD	58	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ax (HE80)	CDD	58	BPSK	MCS0
Unwanted Emissions above 1 GHz	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

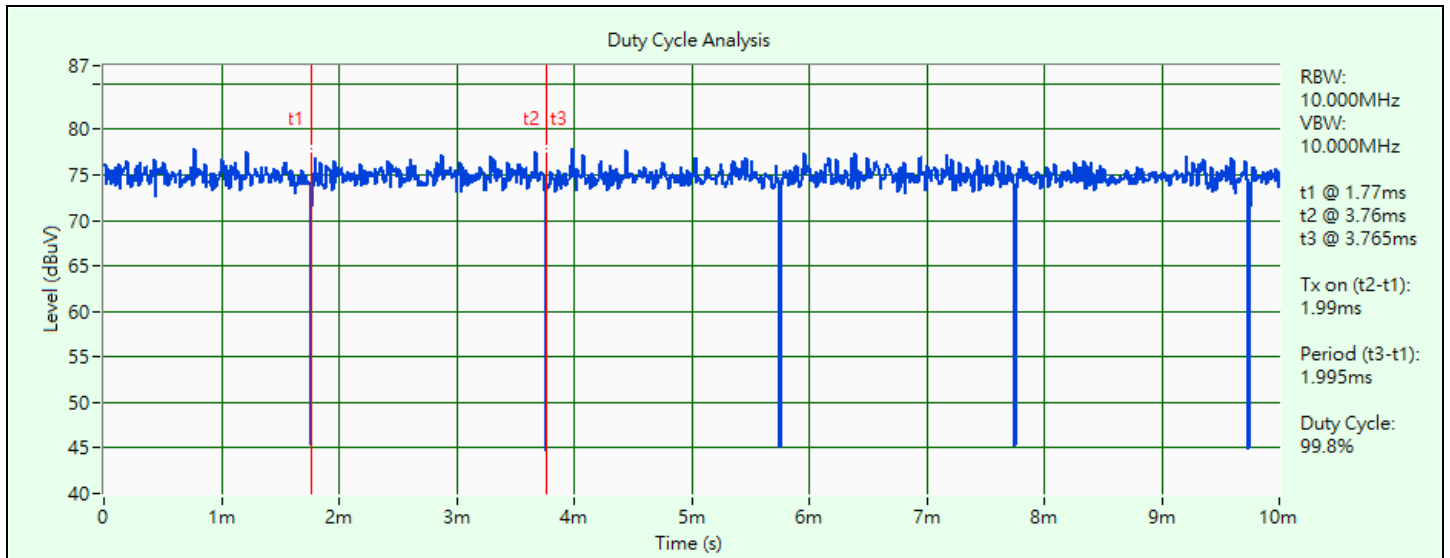
### 3.5 Duty Cycle of Test Signal

**802.11a:** Duty cycle = 1.99 ms / 1.995 ms x 100% = 99.8%

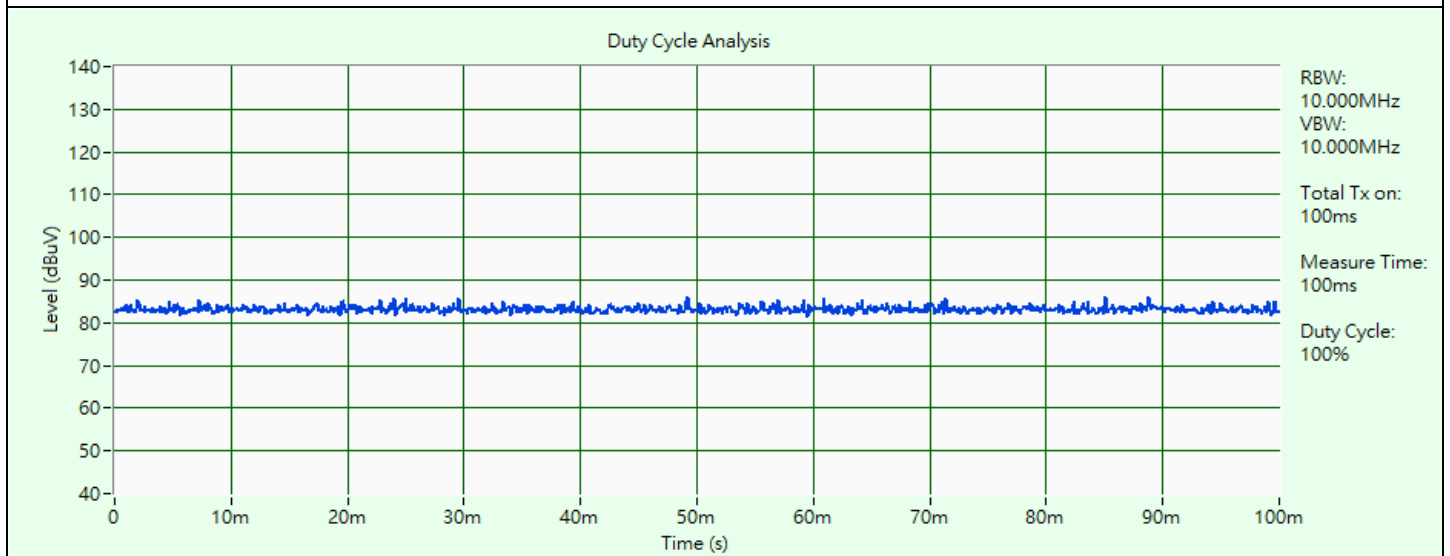
**802.11ax (HE20):** Duty cycle = 100 ms / 100 ms x 100% = 100.0%

**802.11ax (HE40):** Duty cycle = 100 ms / 100 ms x 100% = 100.0%

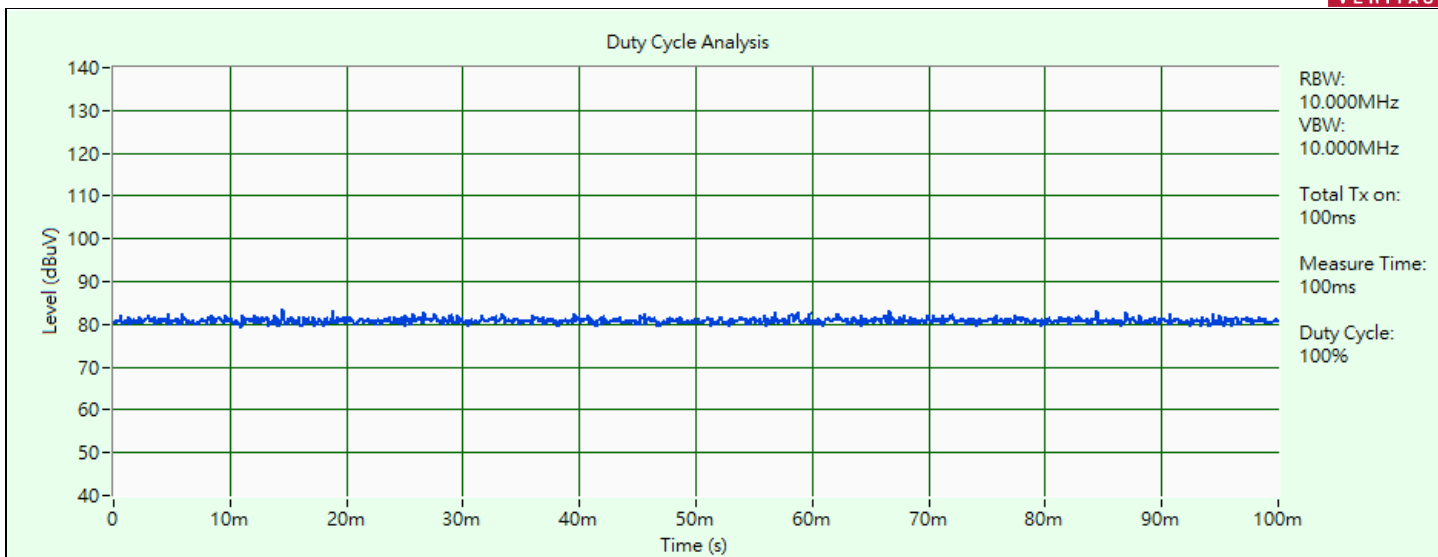
**802.11ax (HE80):** Duty cycle = 100 ms / 100 ms x 100% = 100.0%



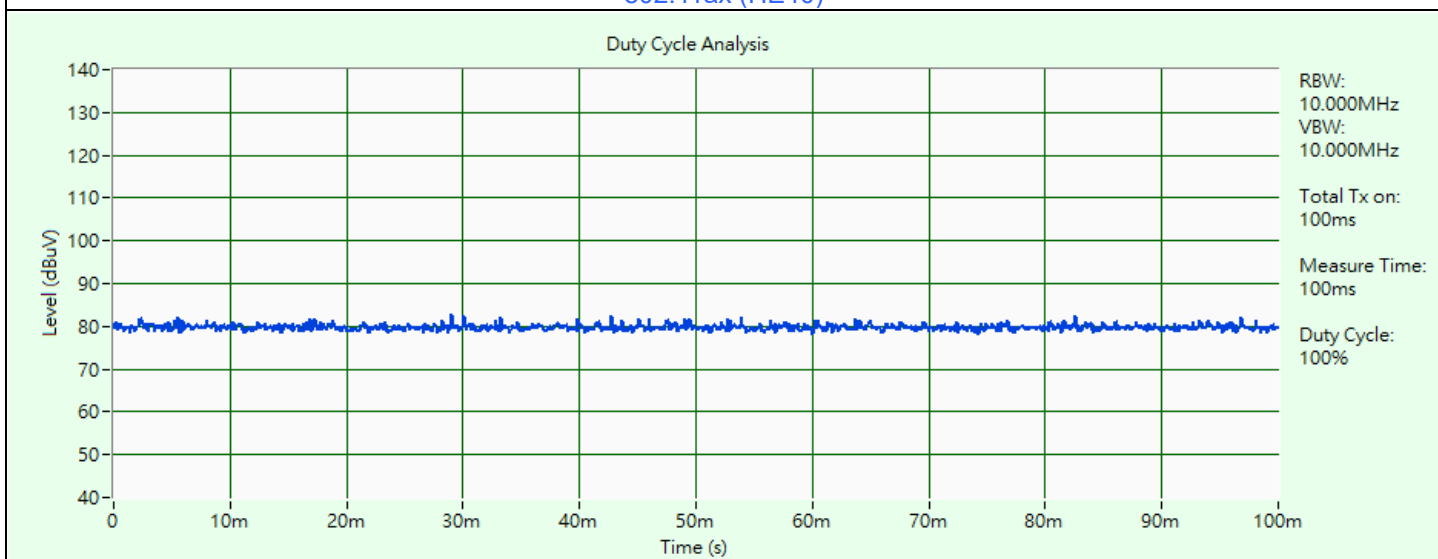
802.11a



802.11ax (HE20)



802.11ax (HE40)

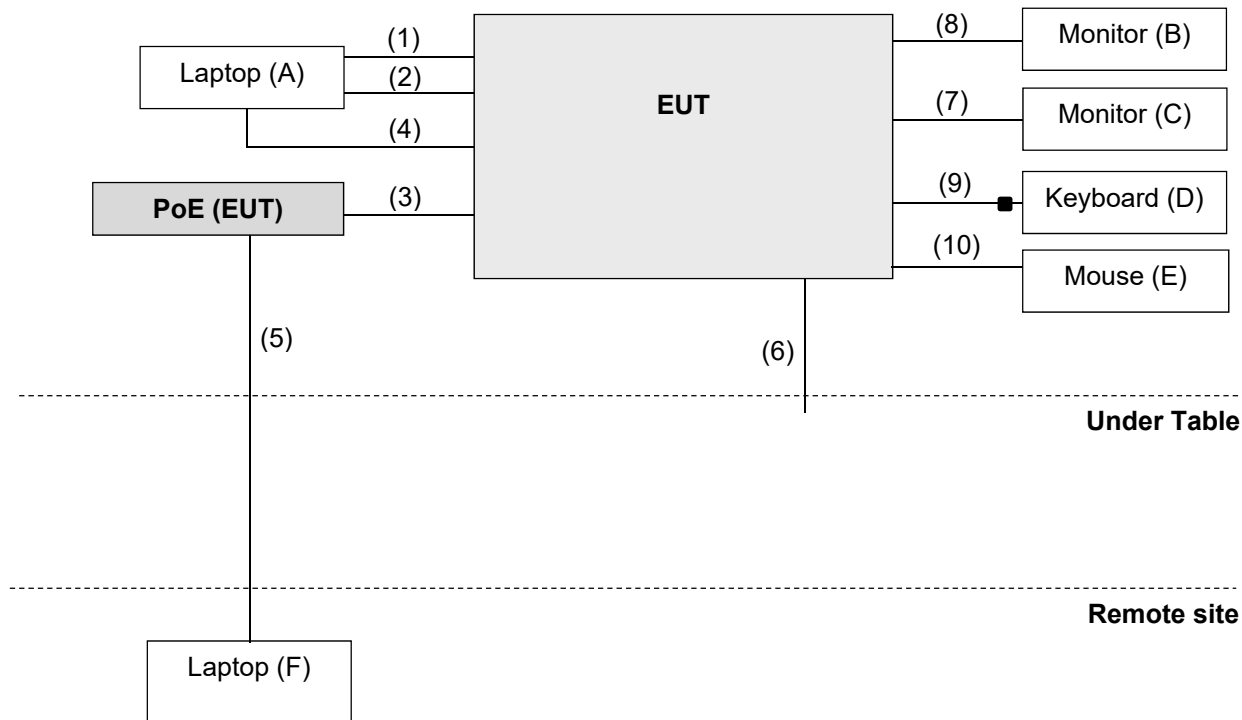


802.11ax (HE80)

### 3.6 Test Program Used and Operation Descriptions

Controlling software WIFI\_BT\_DEBUG\_TOOL\_V0.0.1.5 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

### 3.7 Connection Diagram of EUT and Peripheral Devices



### 3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	DELL	Inspiron 14R	8LRKKW1	NA	Provided by Lab
B	Monitor	DELL	A14S2421HSXmTW	CN-01KFWF-WSL00-24C-714B	NA	Provided by Lab
C	Monitor	DELL	A14S2421HSXmTW	CN-01KFWF-WSL00-24C-711B	NA	Provided by Lab
D	Keyboard	DELL	SK-8115	MY-OJ4635-71619-548-0467	DoC	Provided by Lab
E	Mouse	DELL	MS111-P	CN-011D3V-71581-1CJ-093C	DoC	Provided by Lab
F	Laptop	Lenovo	L470	PF11CSQA	NA	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	USB TYPE-C TO TYPE-A	1	1.5	Y	0	Provided by Lab
2	HDMI Cable	1	1.8	Y	0	Supplied by applicant
3	LAN Cable	1	0.2	Y	0	Supplied by applicant
4	LAN Cable	1	3	Y	0	Supplied by applicant
5	LAN Cable	1	10	N	0	Provided by Lab
6	Audio Cable	2	1.5	N	0	Provided by Lab
7	HDMI Cable	1	1.8	Y	0	Supplied by applicant
8	HDMI Cable	1	1.8	Y	0	Supplied by applicant
9	USB Cable	1	1.5	N	1	Provided by Lab
10	USB Cable	1	1.8	N	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
Signal & Spectrum Analyzer R&S	FSV3044	101504	2023/6/5	2024/6/4
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/3/9

### 4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Peak Power Analyzer Keysight	8990B	MY51000485	2024/1/21	2025/1/20
Signal & Spectrum Analyzer R&S	FSV3044	101504	2023/6/5	2024/6/4
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Wideband Power Sensor Keysight	N1923A	MY58020002	2024/1/18	2025/1/17
		MY58140009	2024/1/18	2025/1/17

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/3/9

### 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
3-channel DC power supply JIN YIH Technology	ODP3033	ODP30332128138	N/A	N/A
Digital Multimeter Fluke	87-III	70360742	2023/7/6	2024/7/5
Signal & Spectrum Analyzer R&S	FSV3044	101504	2023/6/5	2024/6/4
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Temperature & Humidity Chamber Terchy	HRM-120RF	931022	2023/12/19	2024/12/18

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2024/3/9

#### 4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance HUBER+SUHNER	E1-011315	13	2023/11/22	2024/11/21
50 ohm terminal resistance	E1-011279	04	2023/11/22	2024/11/21
	E1-011280	05	2023/11/22	2024/11/21
DC-LISN Schwarzbeck	NNBM 8126G	8126G-069	2023/11/7	2024/11/6
EMI Test Receiver R&S	ESCI	100613	2023/12/4	2024/12/3
Fixed Attenuator Mini-Circuits	HAT-10+	PAD-COND1-01	2024/1/6	2025/1/5
LISN R&S	ENV216	101826	2023/3/23	2024/3/22
	ESH3-Z5	100311	2023/9/6	2024/9/5
RF Coaxial Cable Woken	5D-FB	Cable-cond1-01	2024/1/6	2025/1/5
Software BVADT	BVADT_Cond_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2023/8/31	2024/8/30

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2024/3/15

#### 4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-472	2023/10/16	2024/10/15
EXA Signal Analyzer Agilent	N9010A	MY52220207	2023/12/28	2024/12/27
Loop Antenna Electro-Metrics	EM-6879	269	2023/9/23	2024/9/22
Loop Antenna TESEQ	HLA 6121	45745	2023/8/8	2024/8/7
MXE EMI Receiver Keysight	N9038A	MY55420137	2023/5/3	2024/5/2
Preamplifier EMCI	EMC 330H	980112	2023/9/27	2024/9/26
	EMC001340	980201	2023/9/27	2024/9/26
RF Coaxial Cable Woken	8D-FB	Cable-Ch10-01	2023/9/27	2024/9/26
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2024/3/15

#### 4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower & Turn Max-Full	MFA-440H	AT93021705	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	7	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2023/12/28	2024/12/27
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-969	2023/11/12	2024/11/11
	BBHA 9170	148	2023/11/12	2024/11/11
MXE EMI Receiver Keysight	N9038A	MY55420137	2023/5/3	2024/5/2
Preamplifier EMCI	EMC 012645	980115	2023/9/27	2024/9/26
	EMC 184045	980116	2023/9/27	2024/9/26
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2023/7/8	2024/7/7
	EMC102-KM-KM-3000	150929	2023/7/8	2024/7/7
	EMC104-SM-SM- 8000+3000	171005	2023/9/27	2024/9/26
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	EMC104-SM-SM- 1000(140807)	2023/9/27	2024/9/26
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MFT-201SS	N/A	N/A	N/A
Turn Table Controller Max-Full	MG-7802	N/A	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 5.
2. Tested Date: 2024/2/28 ~ 2024/3/1

## 5 Limits of Test Items

### 5.1 26 dB Bandwidth

The results are for reference only.

### 5.2 RF Output Power

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

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

\*B is the 26 dB emission bandwidth in megahertz

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  $\geq 40$  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)

For transmitters operating in the 5.15-5.25 GHz band:

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

For transmitters operating in the 5.25-5.35 GHz band:

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

For transmitters operating in the 5.47-5.725 GHz band:

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

For transmitters operating in the 5.725-5.850 GHz band:

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

<sup>\*1</sup> beyond 75 MHz or more above of the band edge.

<sup>\*2</sup> below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

<sup>\*3</sup> below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

<sup>\*4</sup> from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

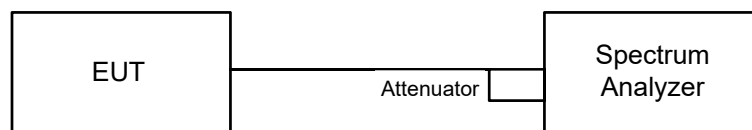
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

## 6 Test Arrangements

### 6.1 26 dB Bandwidth

#### 6.1.1 Test Setup

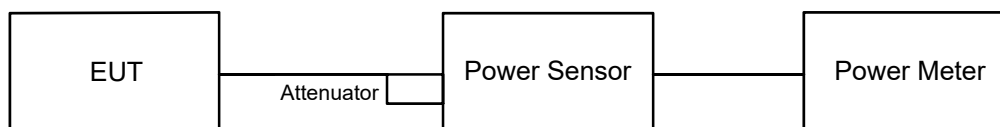


#### 6.1.2 Test Procedure

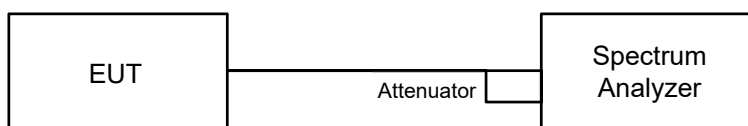
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement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

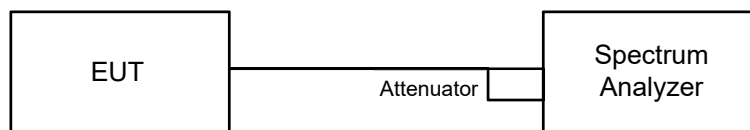
##### Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
- Sweep points ≥  $[2 \times \text{span} / \text{RBW}]$ . (This gives bin-to-bin spacing ≤ 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  $\leq$  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

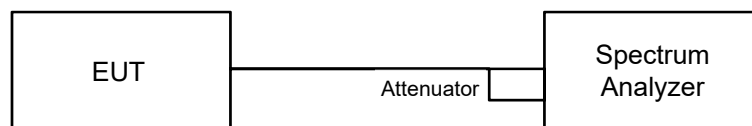
#### For specified measurement bandwidth 500 kHz:

##### 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  $\leq$  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



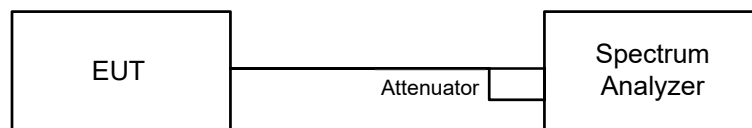
### 6.4.2 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz.
- Set the video bandwidth (VBW)  $\geq$  3 x 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

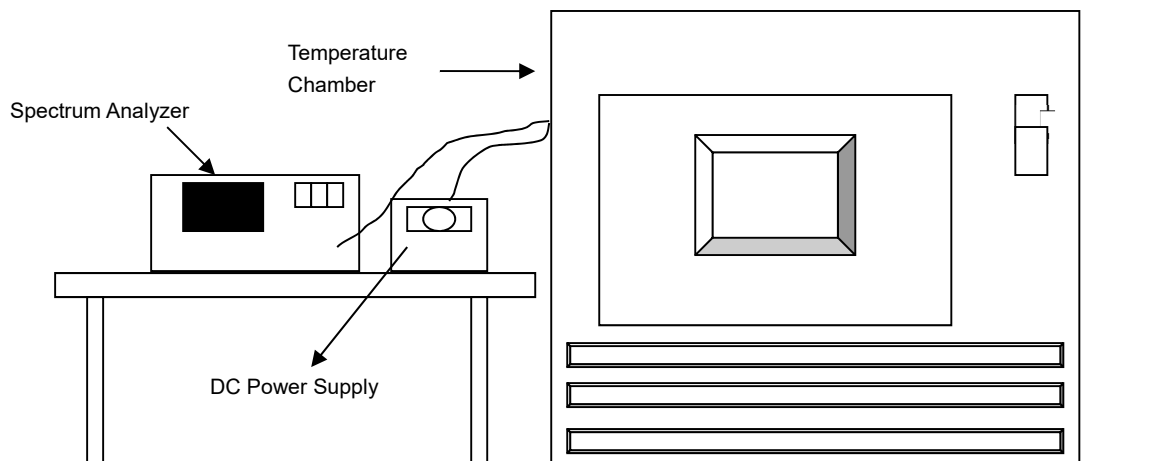


### 6.5.2 Test Procedure

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

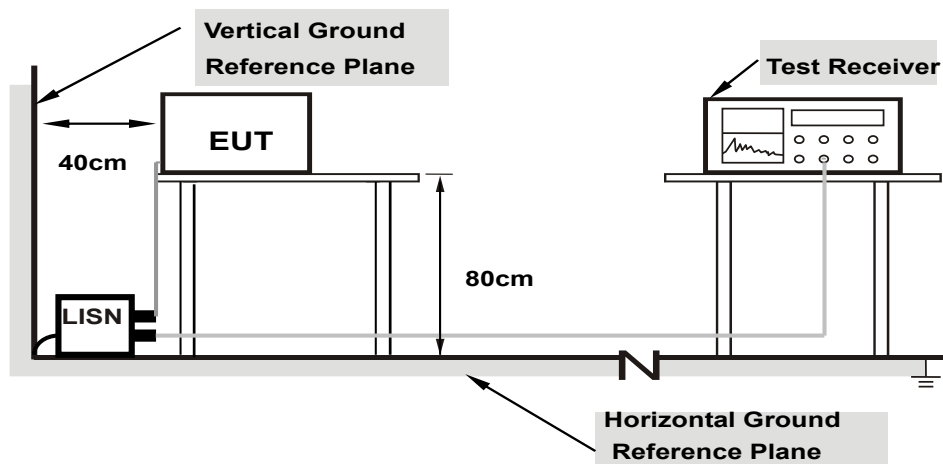


### 6.6.2 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step (d) with 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

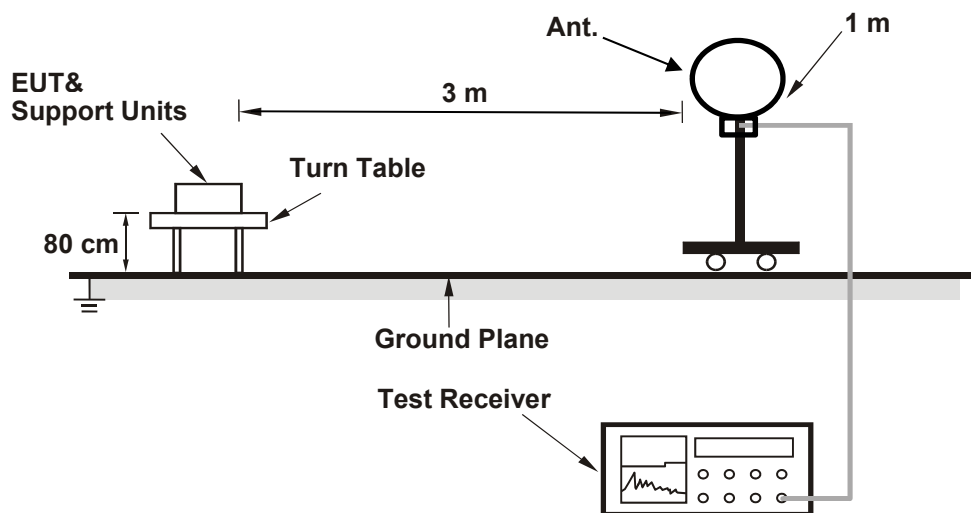
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

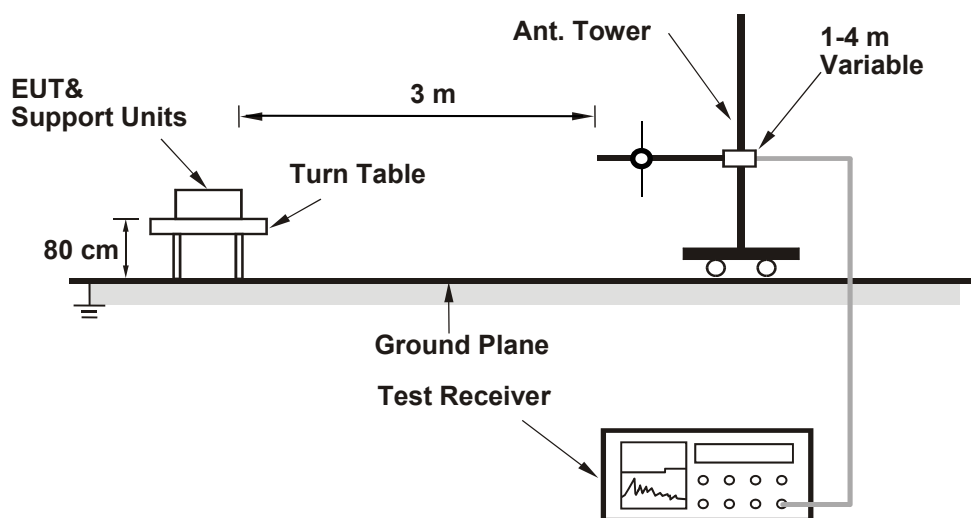
## 6.8 Unwanted Emissions below 1 GHz

### 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

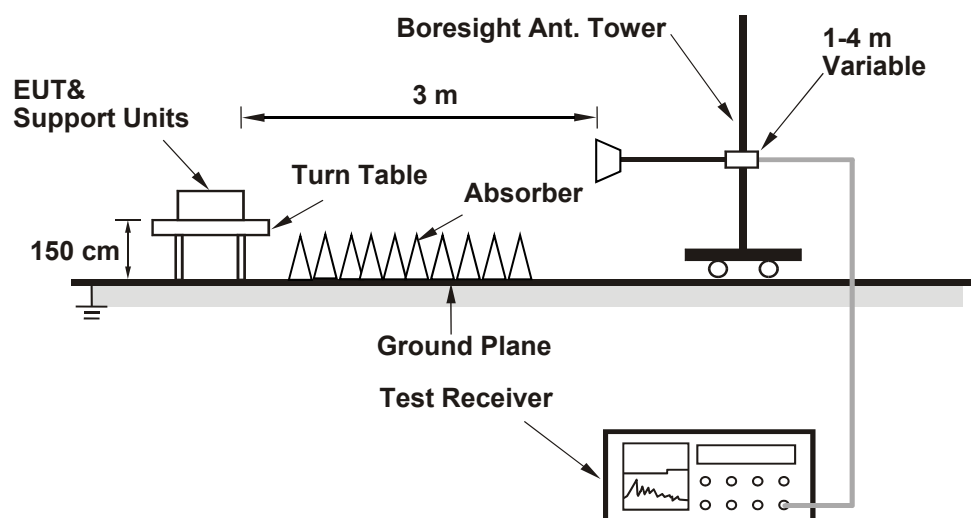
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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 the actual test configuration, please refer to the attached file (Test Setup Photo).

### 6.9.2 Test Procedure

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

#### Notes:

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

## 7 Test Results of Test Item

### 7.1 26 dB Bandwidth

Input Power:	56 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyong Wang
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#### 802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	18.86	18.76
60	5300	18.85	18.73
64	5320	18.75	18.79
100	5500	18.76	18.84
116	5580	18.77	18.93
140	5700	18.90	18.89
144 (U-NII-2C)	5720	14.39	14.34
144 (U-NII-3)	5720	4.34	4.32

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	18.76	23.73 < 24
60	5300	18.73	23.72 < 24
64	5320	18.75	23.73 < 24
100	5500	18.76	23.73 < 24
116	5580	18.77	23.73 < 24
140	5700	18.89	23.76 < 24
144 (U-NII-2C)	5720	14.34	22.56 < 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
52	5260	21.21	20.90
60	5300	20.92	20.90
64	5320	20.94	21.17
100	5500	20.76	20.97
116	5580	21.04	20.99
140	5700	20.98	21.11
144 (U-NII-2C)	5720	15.50	15.48
144 (U-NII-3)	5720	5.38	5.48

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	20.90	24.2 > 24
60	5300	20.90	24.2 > 24
64	5320	20.94	24.2 > 24
100	5500	20.76	24.17 > 24
116	5580	20.99	24.22 > 24
140	5700	20.98	24.21 > 24
144 (U-NII-2C)	5720	15.48	22.89 < 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
54	5270	40.97	40.86
62	5310	40.92	41.03
102	5510	41.00	41.01
110	5550	40.84	40.84
134	5670	40.85	40.83
142 (U-NII-2C)	5710	35.38	35.46
142 (U-NII-3)	5710	5.43	5.48

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	40.86	27.11 > 24
62	5310	40.92	27.11 > 24
102	5510	41.00	27.12 > 24
110	5550	40.84	27.11 > 24
134	5670	40.83	27.1 > 24
142 (U-NII-2C)	5710	35.38	26.48 > 24

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

**802.11ax (HE80)**

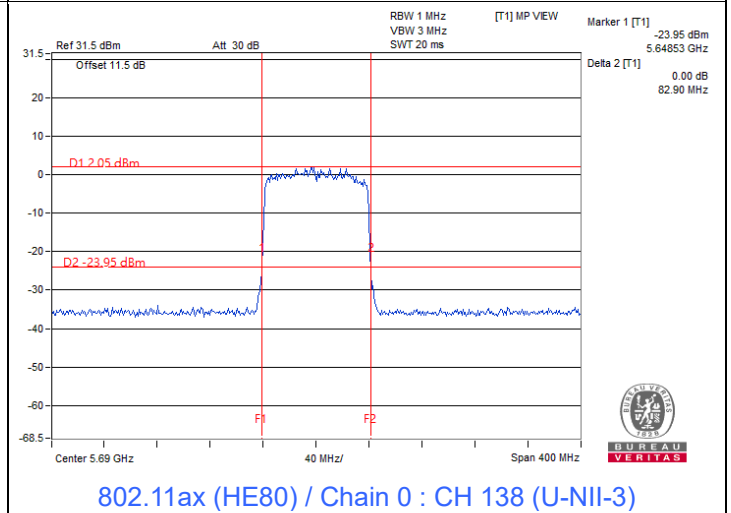
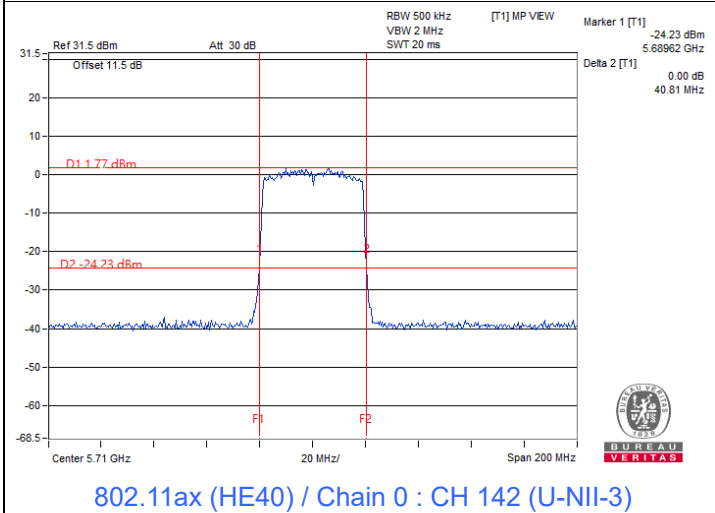
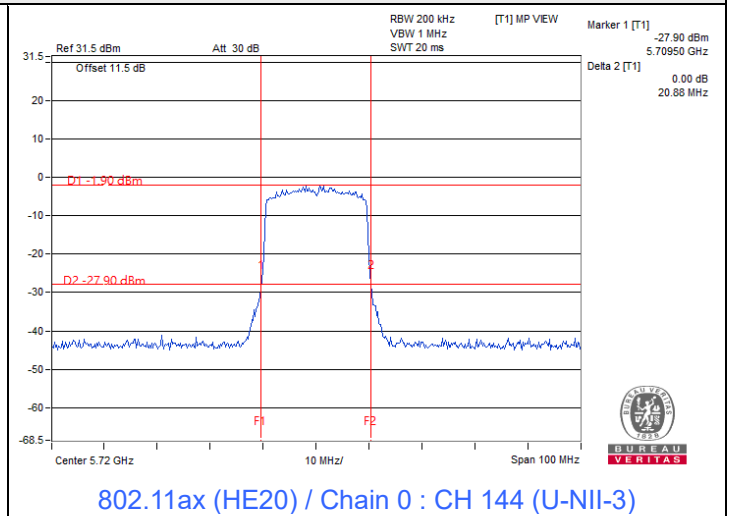
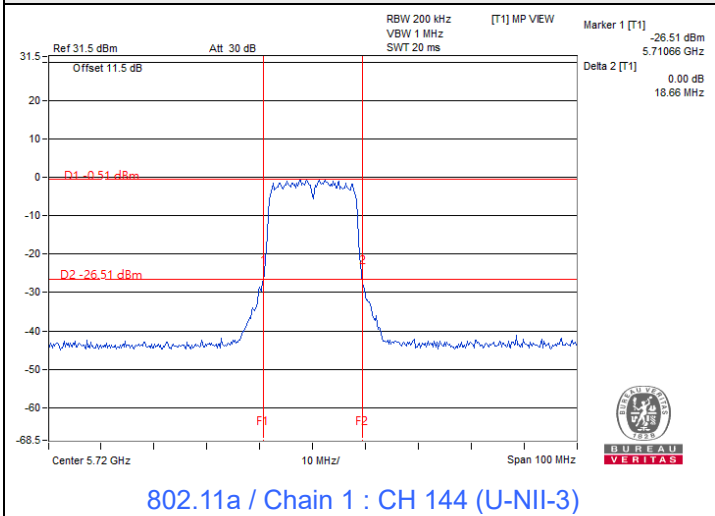
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	83.64	83.41
106	5530	82.82	83.09
122	5610	83.32	83.16
138 (U-NII-2C)	5690	76.47	76.57
138 (U-NII-3)	5690	6.43	6.74

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	83.41	30.21 > 24
106	5530	82.82	30.18 > 24
122	5610	83.16	30.19 > 24
138 (U-NII-2C)	5690	76.47	29.83 > 24

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



### Spectrum Plot of Minimum Value



**Notes:**

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

## 7.2 RF Output Power

Input Power:	56 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyong Wang
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### 802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	9.38	10.23	19.213	12.84	24	Pass
40	5200	9.50	10.37	19.802	12.97	24	Pass
48	5240	9.89	10.54	21.074	13.24	24	Pass
52	5260	9.79	10.53	20.826	13.19	23.73	Pass
60	5300	10.02	10.62	21.581	13.34	23.72	Pass
64	5320	10.49	10.69	22.916	13.60	23.73	Pass
100	5500	8.65	9.21	15.665	11.95	23.73	Pass
116	5580	8.56	9.26	15.611	11.93	23.73	Pass
140	5700	7.63	9.59	14.893	11.73	23.76	Pass
*144 (U-NII-2C)	5720	6.37	7.82	10.389	10.17	22.56	Pass
*144 (U-NII-3)	5720	-0.16	1.43	2.3538	3.72	30	Pass
149	5745	8.23	9.48	15.524	11.91	30	Pass
157	5785	8.45	9.43	15.768	11.98	30	Pass
165	5825	8.39	9.21	15.239	11.83	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 3.03 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.12 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.15 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.12 dBi < 6 dBi, so the output power limit shall not be reduced.

**802.11n (HT20)**

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	9.24	10.02	18.441	12.66	24	Pass
40	5200	9.39	10.40	19.654	12.93	24	Pass
48	5240	9.61	10.34	19.955	13.00	24	Pass
52	5260	9.76	10.29	20.153	13.04	24	Pass
60	5300	9.91	10.31	20.535	13.12	24	Pass
64	5320	10.16	10.87	22.593	13.54	24	Pass
100	5500	8.60	9.14	15.448	11.89	24	Pass
116	5580	8.62	9.18	15.557	11.92	24	Pass
140	5700	7.81	9.50	14.952	11.75	24	Pass
*144 (U-NII-2C)	5720	5.53	7.48	9.17	9.62	22.89	Pass
*144 (U-NII-3)	5720	-0.05	1.72	2.4745	3.93	30	Pass
149	5745	7.87	9.54	15.118	11.79	30	Pass
157	5785	7.91	9.51	15.113	11.79	30	Pass
165	5825	8.19	9.41	15.321	11.85	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 3.03 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.12 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.15 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.12 dBi < 6 dBi, so the output power limit shall not be reduced.

**802.11n (HT40)**

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	9.34	9.85	18.251	12.61	24	Pass
46	5230	9.63	9.91	18.978	12.78	24	Pass
54	5270	9.82	10.15	19.945	13.00	24	Pass
62	5310	10.27	10.57	22.044	13.43	24	Pass
102	5510	8.68	9.06	15.433	11.88	24	Pass
110	5550	8.37	9.34	15.461	11.89	24	Pass
134	5670	8.24	9.17	14.928	11.74	24	Pass
*142 (U-NII-2C)	5710	7.23	7.62	11.065	10.44	24	Pass
*142 (U-NII-3)	5710	-3.37	-2.91	0.9719	-0.12	30	Pass
151	5755	8.13	9.20	14.819	11.71	30	Pass
159	5795	8.58	9.09	15.321	11.85	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 maximum gain is 3.03 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 3.12 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 3.15 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 3.12 dBi < 6 dBi, so the output power limit shall not be reduced.

## 802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	9.26	10.04	18.526	12.68	24	Pass
40	5200	9.41	10.42	19.745	12.95	24	Pass
48	5240	9.63	10.35	20.023	13.02	24	Pass
52	5260	9.77	10.30	20.199	13.05	24	Pass
60	5300	9.95	10.32	20.65	13.15	24	Pass
64	5320	10.17	10.90	22.702	13.56	24	Pass
100	5500	8.63	9.17	15.555	11.92	24	Pass
116	5580	8.64	9.21	15.648	11.94	24	Pass
140	5700	7.84	9.52	15.035	11.77	24	Pass
*144 (U-NII-2C)	5720	5.56	7.52	9.247	9.66	22.89	Pass
*144 (U-NII-3)	5720	0.01	1.76	2.502	3.98	30	Pass
149	5745	7.91	9.57	15.237	11.83	30	Pass
157	5785	7.93	9.53	15.183	11.81	30	Pass
165	5825	8.22	9.43	15.407	11.88	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 3.03 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.12 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.15 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.12 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	9.35	9.86	18.293	12.62	24	Pass
46	5230	9.64	9.93	19.045	12.80	24	Pass
54	5270	9.83	10.17	20.015	13.01	24	Pass
62	5310	10.29	10.59	22.146	13.45	24	Pass
102	5510	8.72	9.10	15.576	11.92	24	Pass
110	5550	8.40	9.37	15.568	11.92	24	Pass
134	5670	8.26	9.21	15.036	11.77	24	Pass
*142 (U-NII-2C)	5710	7.29	7.67	11.206	10.49	24	Pass
*142 (U-NII-3)	5710	-3.29	-2.83	0.99	-0.04	30	Pass
151	5755	8.15	9.23	14.907	11.73	30	Pass
159	5795	8.61	9.12	15.427	11.88	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 3.03 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.12 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.15 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.12 dBi < 6 dBi, so the output power limit shall not be reduced.

### 802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	10.18	10.23	20.967	13.22	24	Pass
58	5290	10.66	10.69	23.363	13.69	24	Pass
106	5530	8.63	9.18	15.574	11.92	24	Pass
122	5610	8.54	9.27	15.598	11.93	24	Pass
*138 (U-NII-2C)	5690	7.21	8.81	12.863	11.09	24	Pass
*138 (U-NII-3)	5690	-7.26	-5.58	0.4646	-3.33	30	Pass
155	5775	7.85	9.64	15.3	11.85	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 3.03 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.12 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.15 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.12 dBi < 6 dBi, so the output power limit shall not be reduced.

**802.11ax (HE20)**

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	9.28	10.05	18.588	12.69	24	Pass
40	5200	9.44	10.43	19.831	12.97	24	Pass
48	5240	9.64	10.36	20.069	13.03	24	Pass
52	5260	9.79	10.31	20.268	13.07	24	Pass
60	5300	9.96	10.34	20.723	13.16	24	Pass
64	5320	10.18	10.91	22.754	13.57	24	Pass
100	5500	8.67	9.21	15.699	11.96	24	Pass
116	5580	8.67	9.24	15.757	11.97	24	Pass
140	5700	7.86	9.56	15.146	11.80	24	Pass
*144 (U-NII-2C)	5720	5.61	7.56	9.341	9.70	22.89	Pass
*144 (U-NII-3)	5720	0.03	1.81	2.524	4.02	30	Pass
149	5745	7.93	9.62	15.371	11.87	30	Pass
157	5785	7.96	9.57	15.309	11.85	30	Pass
165	5825	8.26	9.48	15.57	11.92	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 maximum gain is 3.03 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the maximum gain is 3.12 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 3.15 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 3.12 dBi < 6 dBi, so the output power limit shall not be reduced.

**802.11ax (HE40)**

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	9.37	9.87	18.355	12.64	24	Pass
46	5230	9.66	9.94	19.11	12.81	24	Pass
54	5270	9.84	10.19	20.085	13.03	24	Pass
62	5310	10.30	10.61	22.223	13.47	24	Pass
102	5510	8.75	9.12	15.665	11.95	24	Pass
110	5550	8.43	9.41	15.696	11.96	24	Pass
134	5670	8.29	9.23	15.121	11.80	24	Pass
*142 (U-NII-2C)	5710	7.35	7.78	11.43	10.58	24	Pass
*142 (U-NII-3)	5710	-3.12	-2.76	1.0172	0.07	30	Pass
151	5755	8.18	9.25	14.991	11.76	30	Pass
159	5795	8.64	9.15	15.534	11.91	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 3.03 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.12 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.15 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.12 dBi < 6 dBi, so the output power limit shall not be reduced.

**802.11ax (HE80)**

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	10.20	10.25	21.064	13.24	24	Pass
58	5290	10.67	10.71	23.444	13.70	24	Pass
106	5530	8.68	9.21	15.716	11.96	24	Pass
122	5610	8.57	9.31	15.725	11.97	24	Pass
*138 (U-NII-2C)	5690	7.30	8.85	13.044	11.15	24	Pass
*138 (U-NII-3)	5690	-7.17	-5.44	0.4776	-3.21	30	Pass
155	5775	7.86	9.68	15.399	11.87	30	Pass

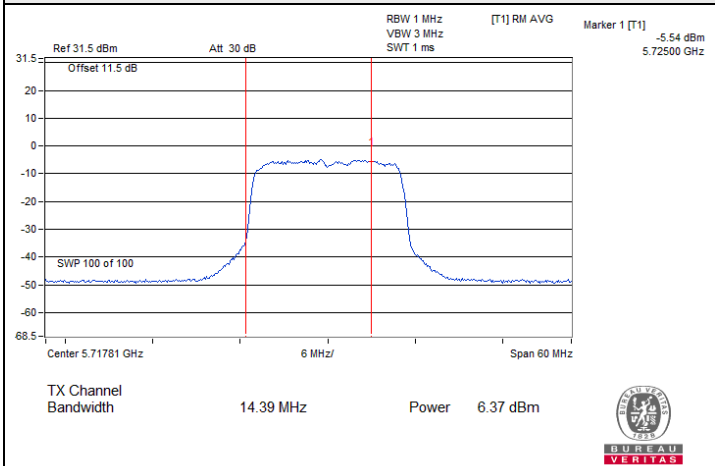
**Notes:**

- \* : 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 3.03 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 3.12 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.15 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.12 dBi < 6 dBi, so the output power limit shall not be reduced.

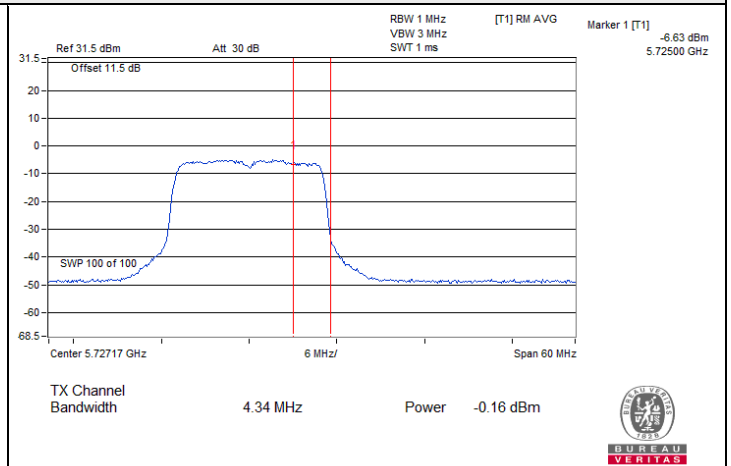




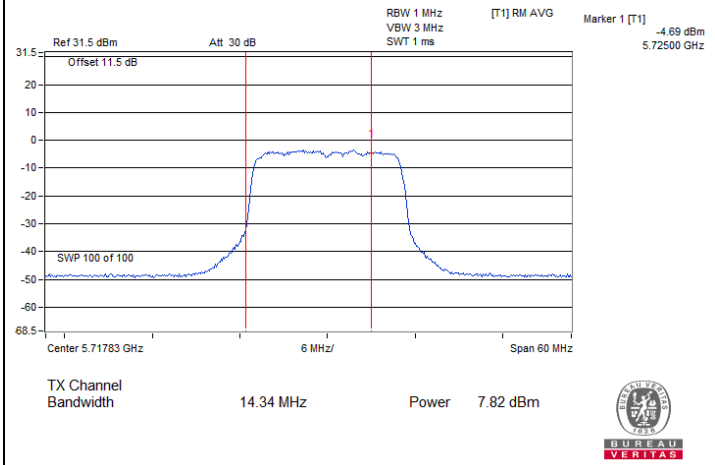
### Spectrum Plot for channel straddling



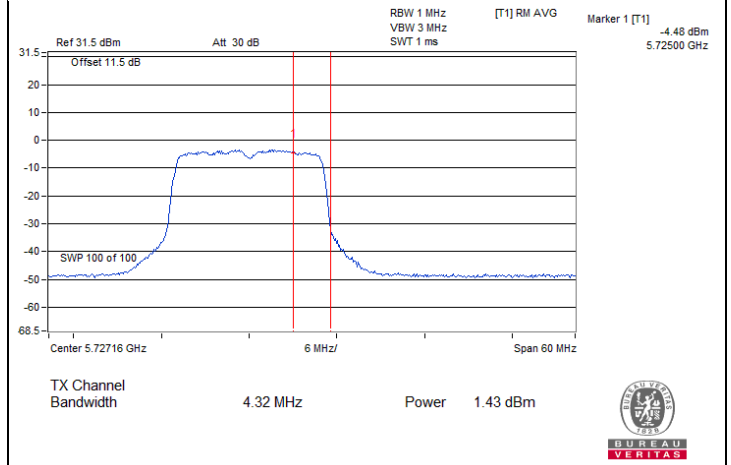
802.11a / Chain 0 : CH 144 (U-NII-2C)



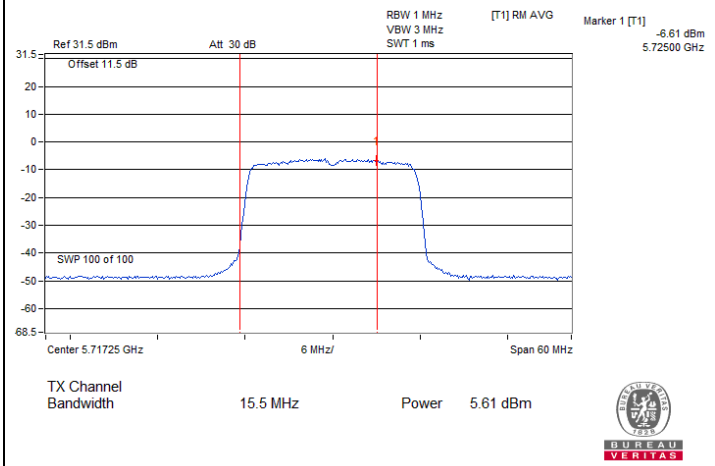
802.11a / Chain 0 : CH 144 (U-NII-3)



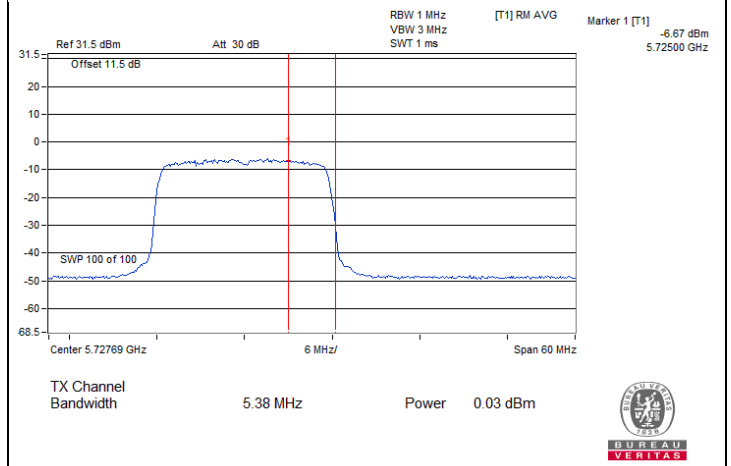
802.11a / Chain 1 : CH 144 (U-NII-2C)



802.11a / Chain 1 : CH 144 (U-NII-3)



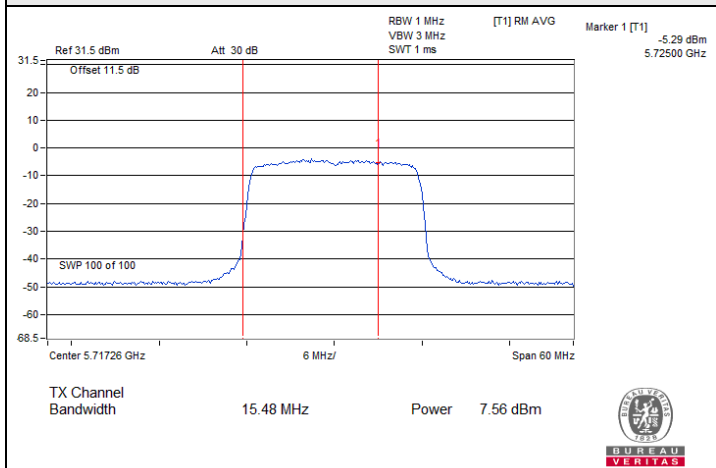
802.11ax (HE20) / Chain 0 : CH 144 (U-NII-2C)



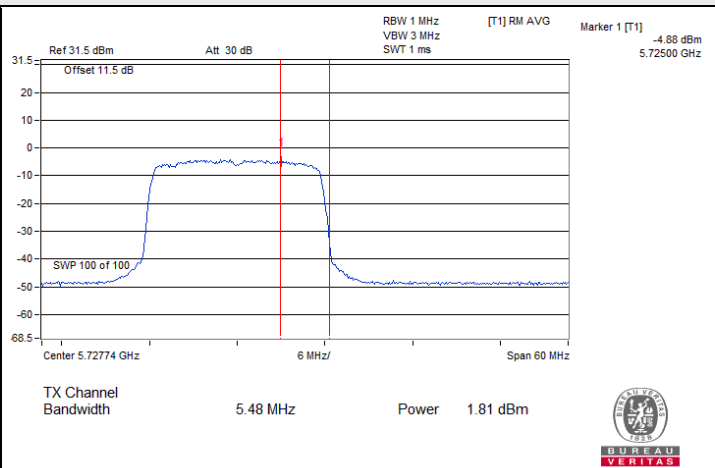
802.11ax (HE20) / Chain 0 : CH 144 (U-NII-3)



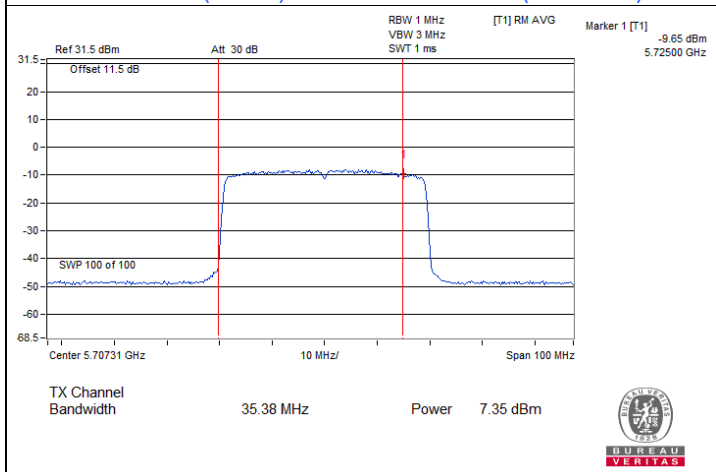
### Spectrum Plot for channel straddling



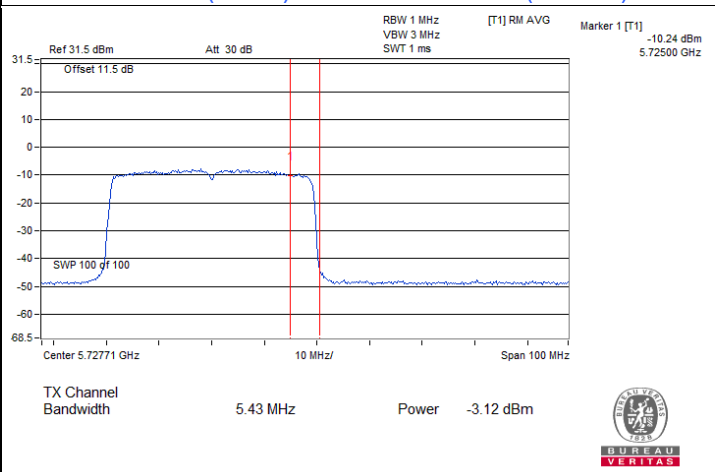
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-2C)



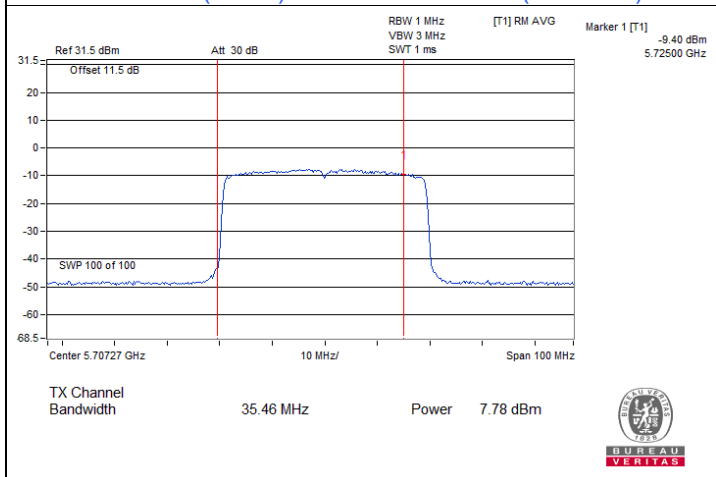
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-3)



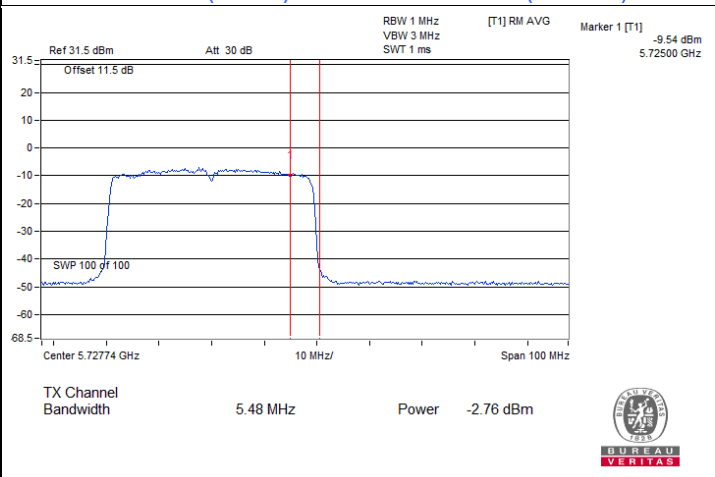
802.11ax (HE40) / Chain 0 : CH 142 (U-NII-2C)



802.11ax (HE40) / Chain 0 : CH 142 (U-NII-3)

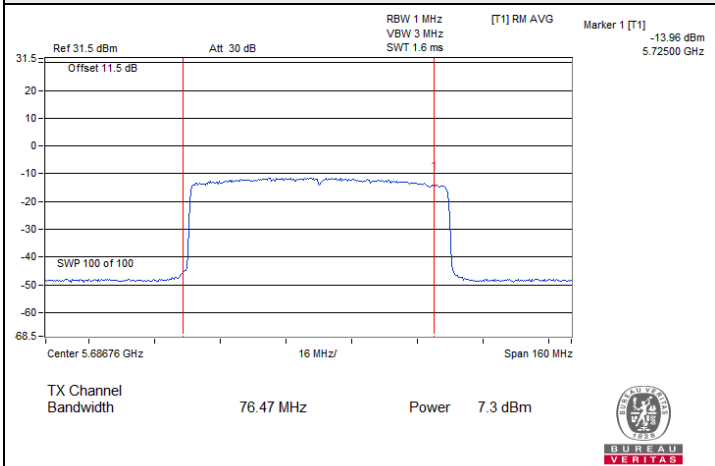


802.11ax (HE40) / Chain 1 : CH 142 (U-NII-2C)

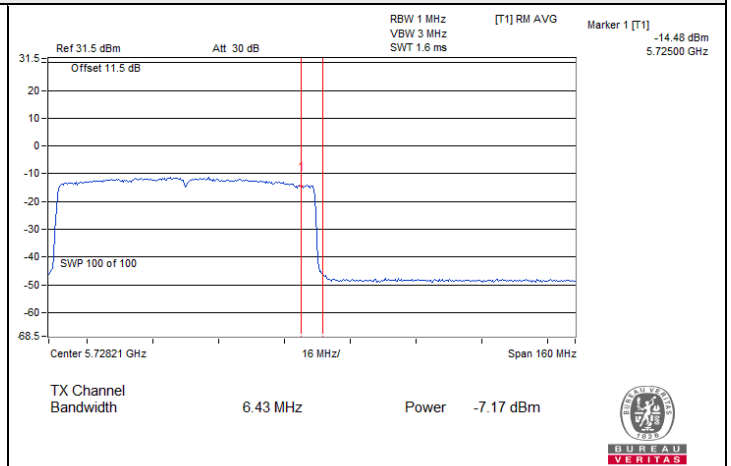


802.11ax (HE40) / Chain 1 : CH 142 (U-NII-3)

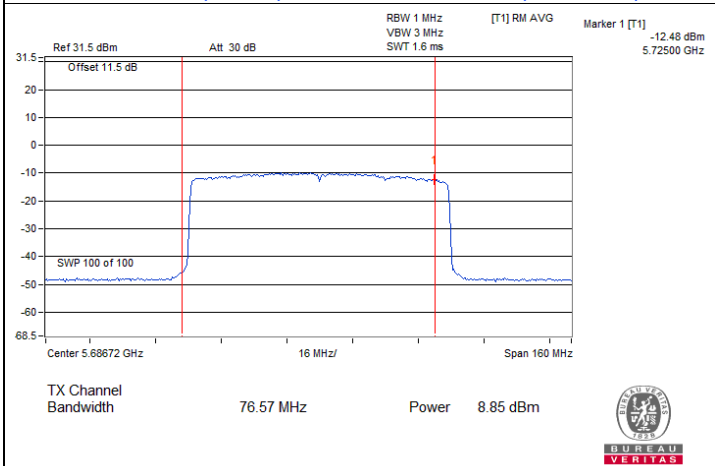
### Spectrum Plot for channel straddling



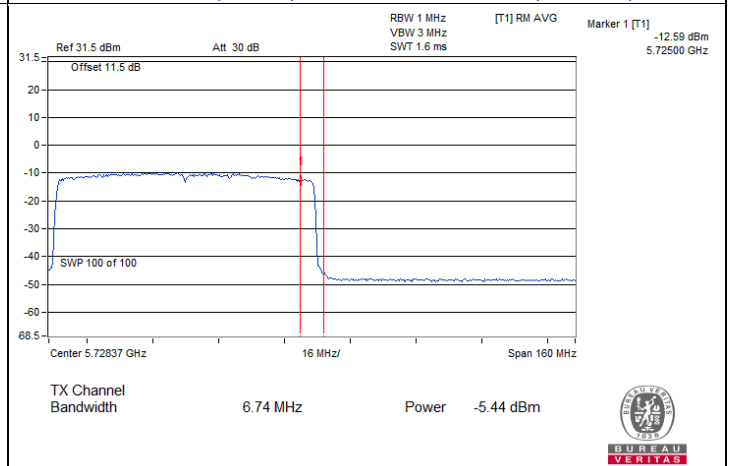
802.11ax (HE80) / Chain 0 : CH 138 (U-NII-2C)



802.11ax (HE80) / Chain 0 : CH 138 (U-NII-3)



802.11ax (HE80) / Chain 1 : CH 138 (U-NII-2C)



802.11ax (HE80) / Chain 1 : CH 138 (U-NII-3)

### 7.3 Power Spectral Density

Input Power:	56 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyong Wang
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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			
36	5180	-3.59	-2.77	-0.15	11	Pass
40	5200	-3.54	-2.65	-0.06	11	Pass
48	5240	-3.10	-2.46	0.24	11	Pass
52	5260	-3.23	-2.51	0.16	10.92	Pass
60	5300	-3.01	-2.43	0.30	10.92	Pass
64	5320	-2.55	-2.40	0.54	10.92	Pass
100	5500	-4.36	-3.81	-1.07	10.86	Pass
116	5580	-4.44	-3.71	-1.05	10.86	Pass
140	5700	-5.30	-3.46	-1.27	10.86	Pass
144 (U-NII-2C)	5720	-5.04	-3.50	-1.19	10.86	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 = gain of antenna element + 10 log (2 of TX antenna elements)
- For U-NII-1, the directional gain is 5.99 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 6.08 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.08-6) = 10.92 dBm/MHz.
- For U-NII-2C, the directional gain is 6.14 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.14-6) = 10.86 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			
36	5180	-3.77	-2.99	-0.35	11	Pass
40	5200	-3.55	-2.61	-0.04	11	Pass
48	5240	-3.31	-2.73	0.00	11	Pass
52	5260	-3.22	-2.62	0.10	10.92	Pass
60	5300	-3.09	-2.60	0.17	10.92	Pass
64	5320	-2.96	-2.11	0.50	10.92	Pass
100	5500	-4.37	-3.75	-1.04	10.86	Pass
116	5580	-4.38	-3.68	-1.01	10.86	Pass
140	5700	-5.11	-3.46	-1.20	10.86	Pass
144 (U-NII-2C)	5720	-5.43	-3.36	-1.26	10.86	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 =  $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 5.99 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 6.08 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.08-6) = 10.92 dBm/MHz.
- For U-NII-2C, the directional gain is 6.14 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.14-6) = 10.86 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			
38	5190	-6.73	-6.17	-3.43	11	Pass
46	5230	-6.25	-6.08	-3.15	11	Pass
54	5270	-6.14	-5.94	-3.03	10.92	Pass
62	5310	-5.86	-5.37	-2.60	10.92	Pass
102	5510	-7.35	-6.88	-4.10	10.86	Pass
110	5550	-7.52	-6.53	-3.99	10.86	Pass
134	5670	-7.75	-6.56	-4.10	10.86	Pass
142 (U-NII-2C)	5710	-7.67	-6.82	-4.21	10.86	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 =  $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 5.99 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 6.08 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.08-6) = 10.92 dBm/MHz.
- For U-NII-2C, the directional gain is 6.14 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.14-6) = 10.86 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			
42	5210	-8.82	-8.71	-5.75	11	Pass
58	5290	-8.37	-8.27	-5.31	10.92	Pass
106	5530	-10.29	-9.77	-7.01	10.86	Pass
122	5610	-10.42	-9.71	-7.04	10.86	Pass
138 (U-NII-2C)	5690	-11.01	-9.41	-7.13	10.86	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 =  $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 5.99 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 6.08 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.08-6) = 10.92 dBm/MHz.
- For U-NII-2C, the directional gain is 6.14 dBi > 6 dBi, so the power density limit shall be reduced to 11-(6.14-6) = 10.86 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				
144 (U-NII-3)	5720	-13.73	-12.21	-9.89	-7.67	29.95	Pass
149	5745	-12.63	-11.73	-9.15	-6.93	29.95	Pass
157	5785	-12.61	-11.68	-9.11	-6.89	29.95	Pass
165	5825	-12.50	-11.92	-9.19	-6.97	29.95	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 = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-3, the directional gain is 6.05 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.05-6) = 29.95 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				
144 (U-NII-3)	5720	-15.48	-13.61	-11.43	-9.21	29.95	Pass
149	5745	-14.74	-12.80	-10.65	-8.43	29.95	Pass
157	5785	-14.91	-13.31	-11.03	-8.81	29.95	Pass
165	5825	-14.16	-13.09	-10.58	-8.36	29.95	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 = 10 log $[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 6.05 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.05-6) = 29.95 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				
142 (U-NII-3)	5710	-18.41	-17.95	-15.16	-12.94	29.95	Pass
151	5755	-16.96	-15.87	-13.37	-11.15	29.95	Pass
159	5795	-16.41	-16.19	-13.29	-11.07	29.95	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 = 10 log $[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 6.05 dBi > 6 dBi, so the power density limit shall be reduced to 30-(6.05-6) = 29.95 dBm/500kHz.

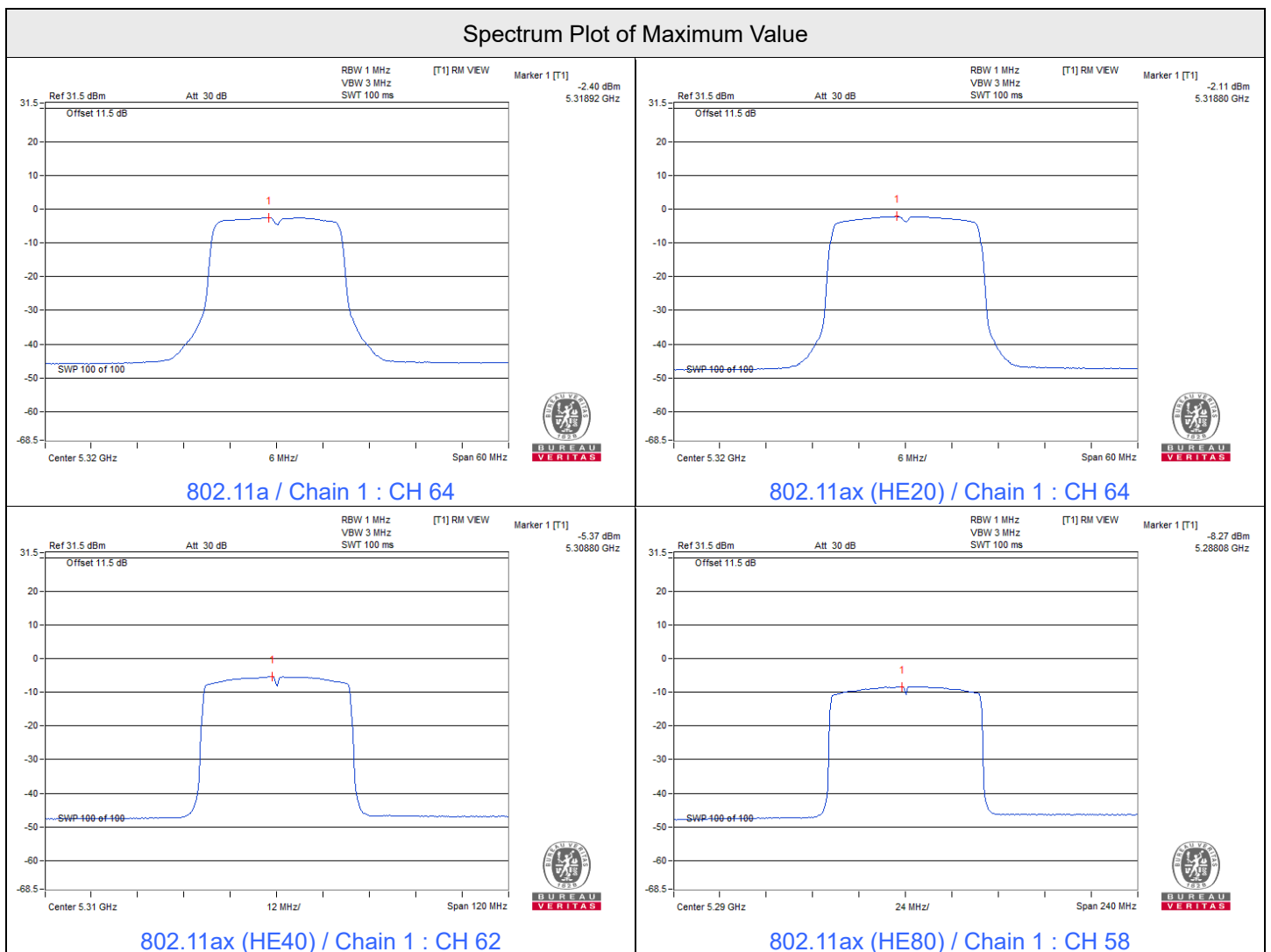


802.11ax (HE80)

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				
138 (U-NII-3)	5690	-21.89	-20.27	-17.99	-15.77	29.95	Pass
155	5775	-20.54	-19.00	-16.69	-14.47	29.95	Pass

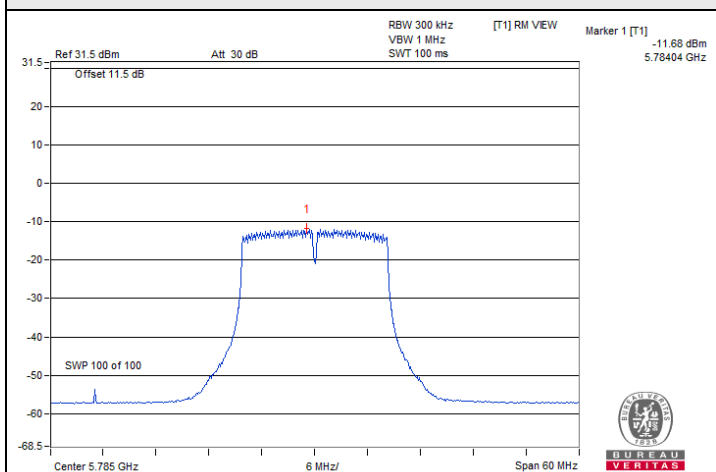
Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain =  $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-3, the directional gain is 6.05 dBi > 6 dBi, so the power density limit shall be reduced to  $30 - (6.05 - 6) = 29.95 \text{ dBm/500kHz}$ .

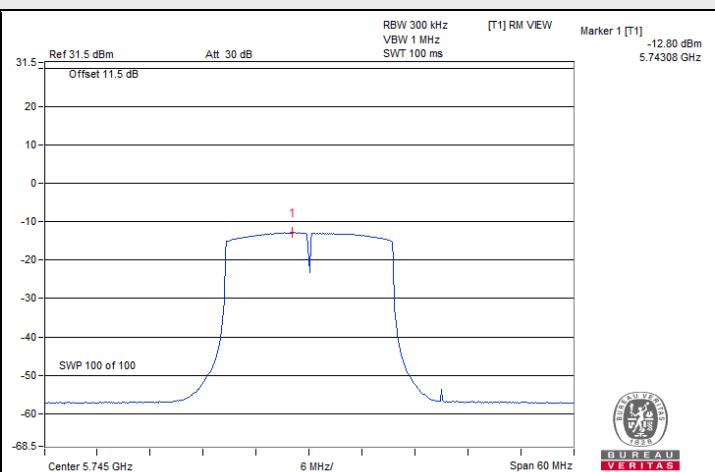




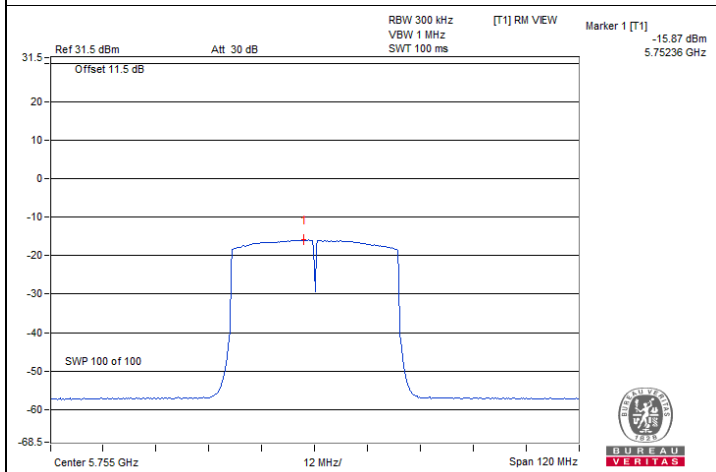
### Spectrum Plot of Maximum Value



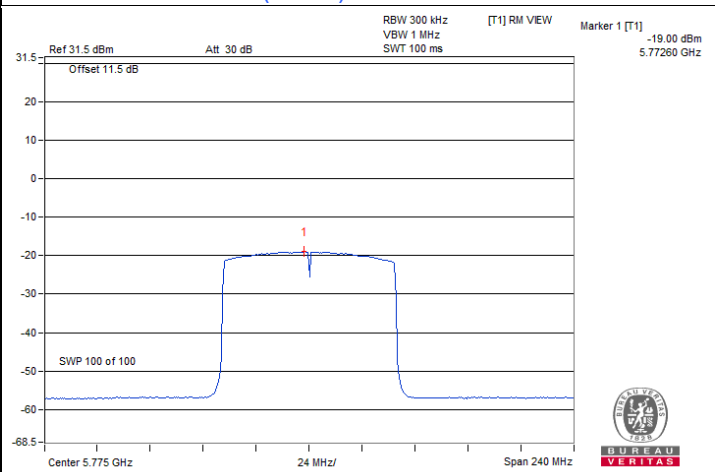
802.11a / Chain 1 : CH 157



802.11ax (HE20) / Chain 1 : CH 149



802.11ax (HE40) / Chain 1 : CH 151



802.11ax (HE80) / Chain 1 : CH 155

#### 7.4 6 dB Bandwidth

Input Power:	56 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyong Wang
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##### 802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	3.17	3.15	0.5	Pass
149	5745	16.31	16.30	0.5	Pass
157	5785	16.30	16.29	0.5	Pass
165	5825	16.33	16.29	0.5	Pass

##### 802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	4.40	4.42	0.5	Pass
149	5745	18.70	18.82	0.5	Pass
157	5785	18.91	18.77	0.5	Pass
165	5825	18.70	18.87	0.5	Pass

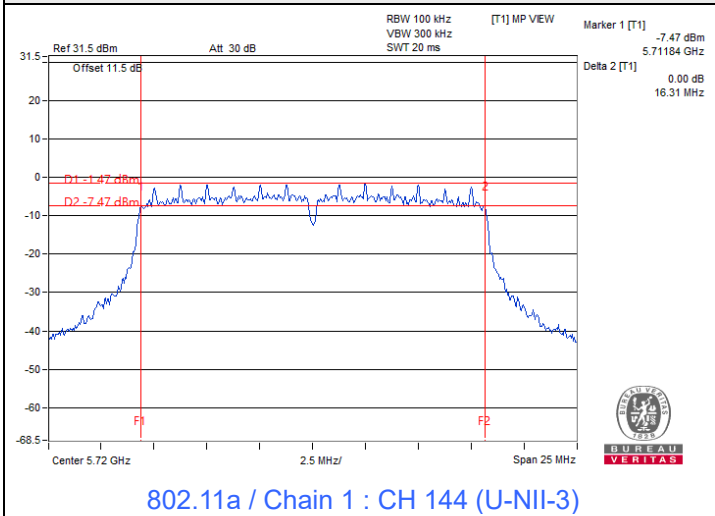
##### 802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
142 (U-NII-3)	5710	3.85	3.84	0.5	Pass
151	5755	37.61	37.82	0.5	Pass
159	5795	37.64	37.63	0.5	Pass

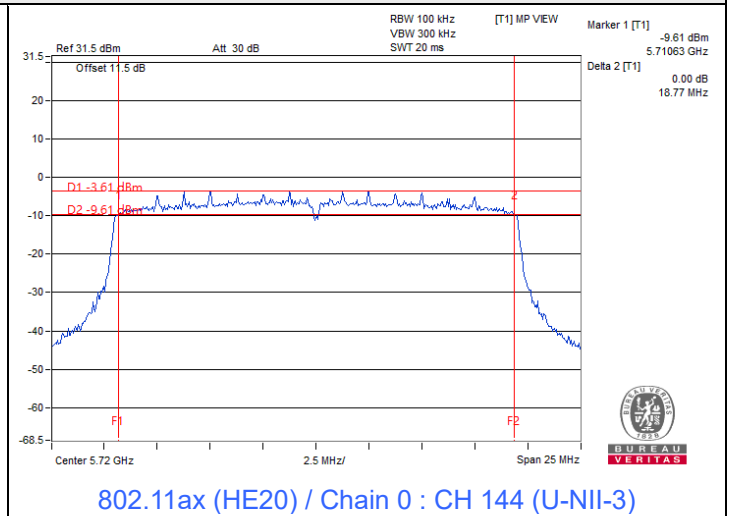
##### 802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
138 (U-NII-3)	5690	3.59	3.69	0.5	Pass
155	5775	77.27	77.29	0.5	Pass

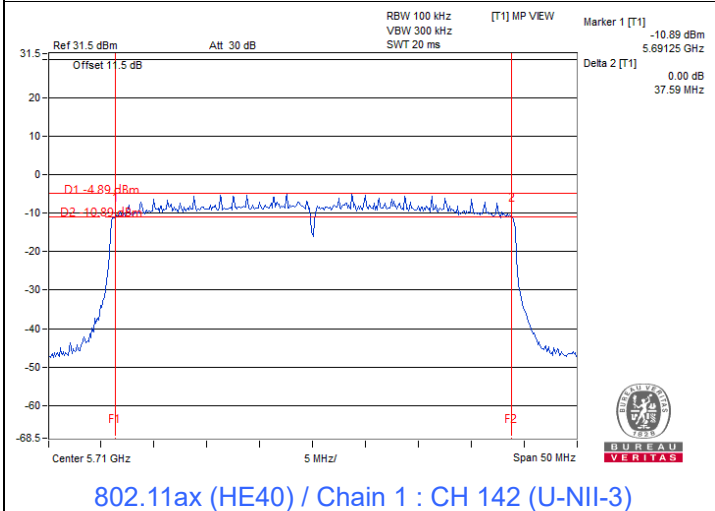
### Spectrum Plot of Minimum Value



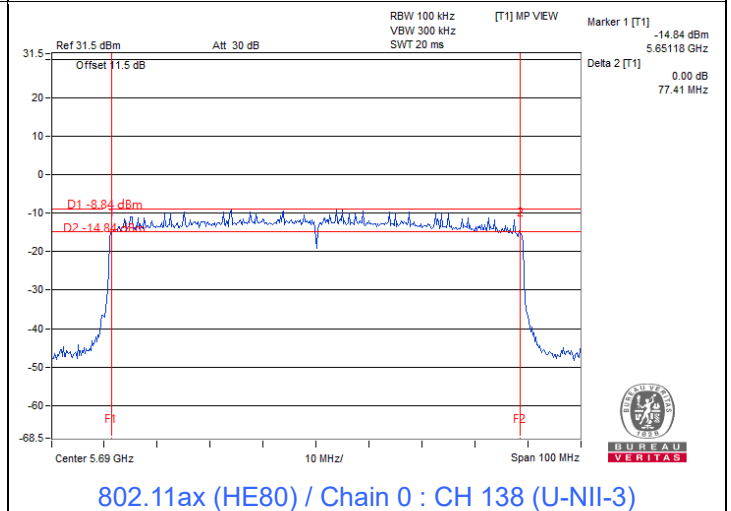
802.11a / Chain 1 : CH 144 (U-NII-3)



802.11ax (HE20) / Chain 0 : CH 144 (U-NII-3)



802.11ax (HE40) / Chain 1 : CH 142 (U-NII-3)



802.11ax (HE80) / Chain 0 : CH 138 (U-NII-3)

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

## 7.5 Occupied Bandwidth

Input Power:	56 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyong Wang
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### 802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.44	16.44
40	5200	16.44	16.44
48	5240	16.44	16.44
52	5260	16.44	16.44
60	5300	16.44	16.44
64	5320	16.44	16.44
100	5500	16.44	16.44
116	5580	16.44	16.44
140	5700	16.44	16.44
144 (U-NII-2C)	5720	13.28	13.28
144 (U-NII-3)	5720	3.16	3.16
149	5745	16.38	16.38
157	5785	16.38	16.38
165	5825	16.38	16.38

### 802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.84	18.84
40	5200	18.84	18.84
48	5240	18.84	18.84
52	5260	18.84	18.84
60	5300	18.84	18.84
64	5320	18.84	18.84
100	5500	18.84	18.84
116	5580	18.84	18.84
140	5700	18.84	18.96
144 (U-NII-2C)	5720	14.48	14.48
144 (U-NII-3)	5720	4.36	4.36
149	5745	18.90	18.90
157	5785	18.90	18.90
165	5825	18.90	18.90

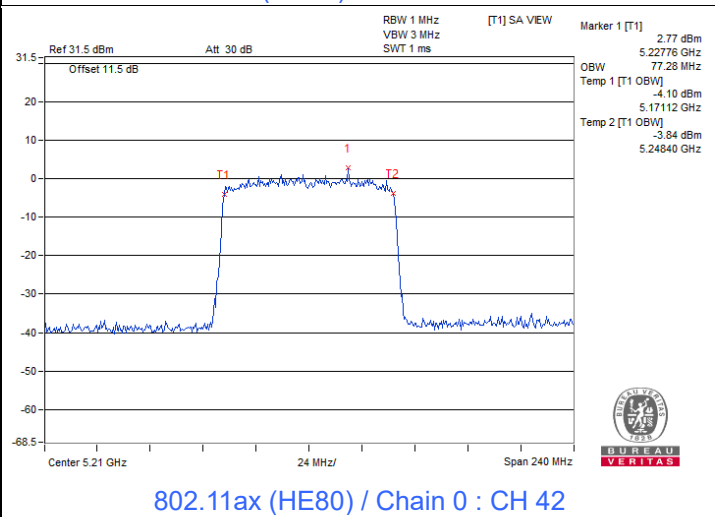
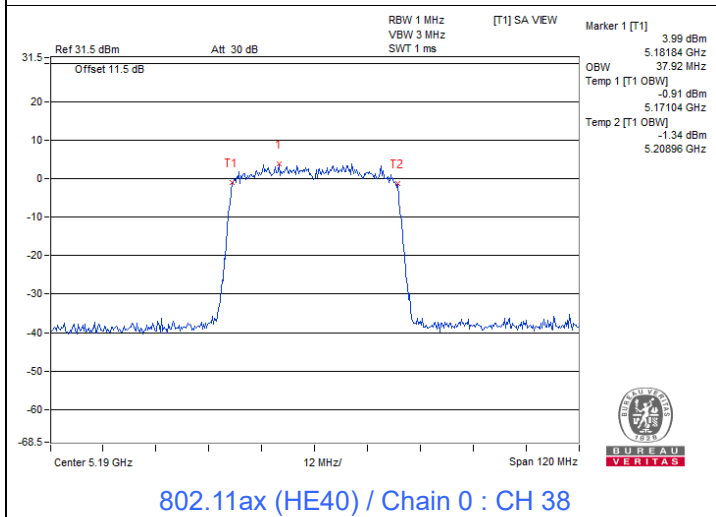
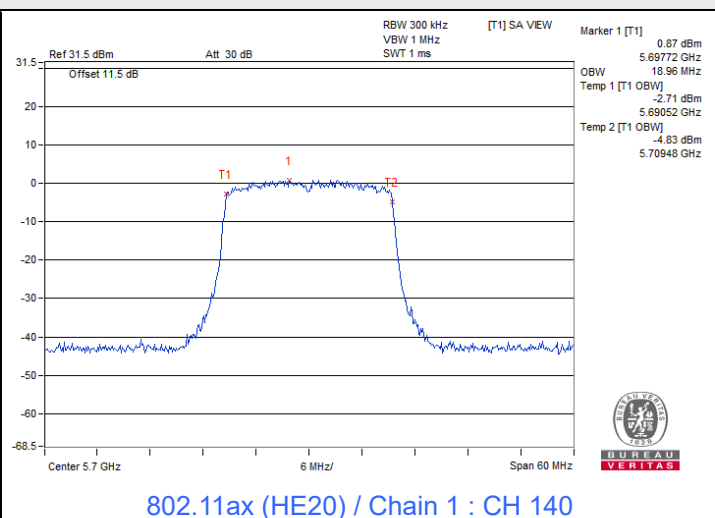
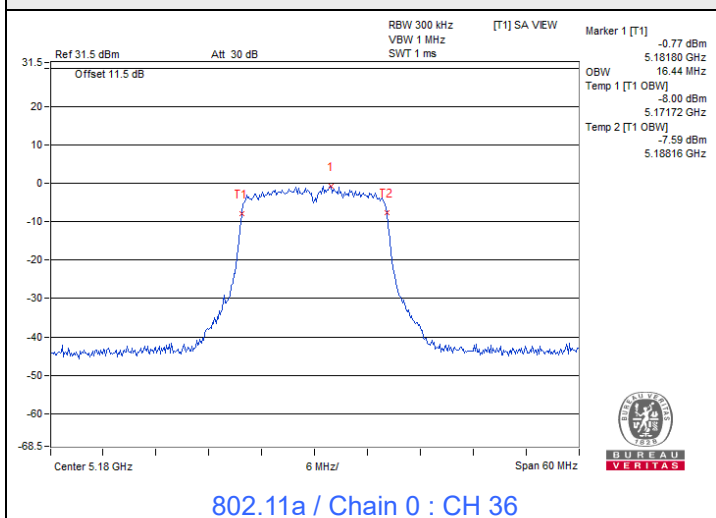
**802.11ax (HE40)**

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

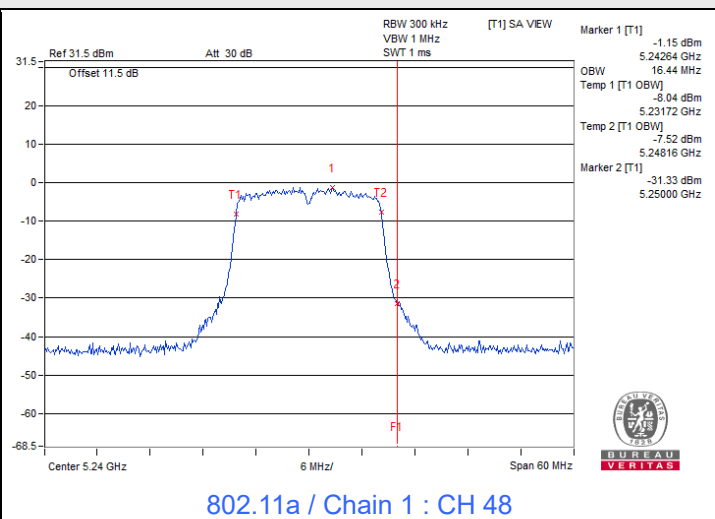
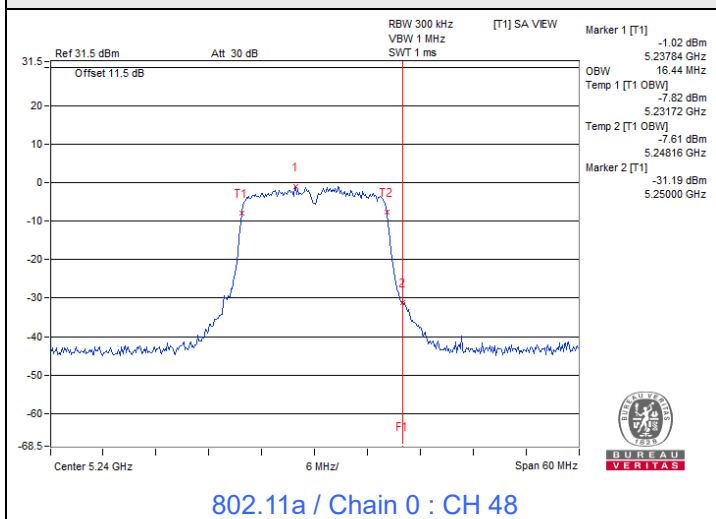
**802.11ax (HE80)**

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	77.28	77.28
58	5290	77.28	77.28
106	5530	77.28	77.04
122	5610	77.28	77.28
138 (U-NII-2C)	5690	73.88	73.88
138 (U-NII-3)	5690	3.40	3.40
155	5775	77.28	77.28

### Spectrum Plot of Maximum Value

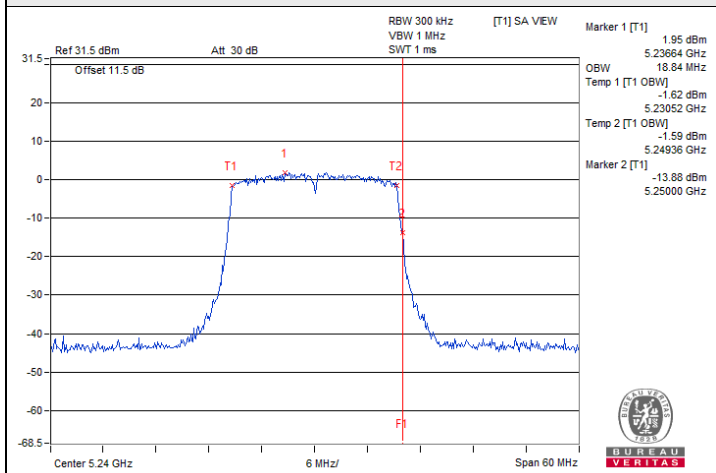


### Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)

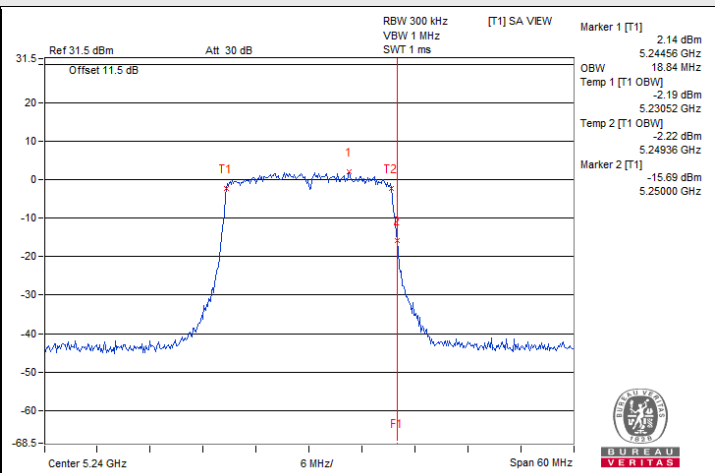




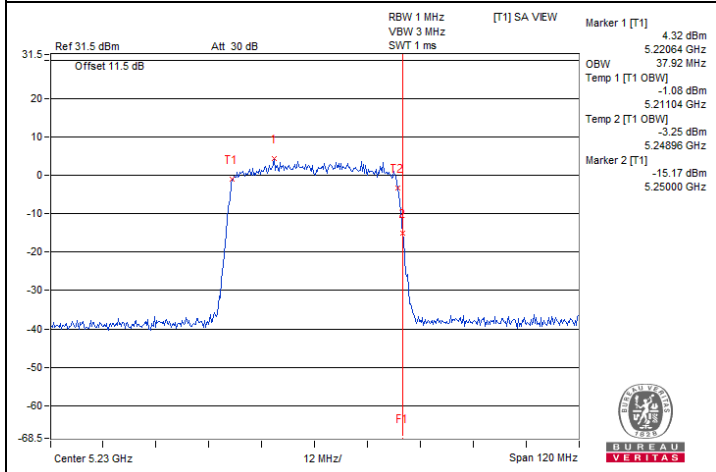
### Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



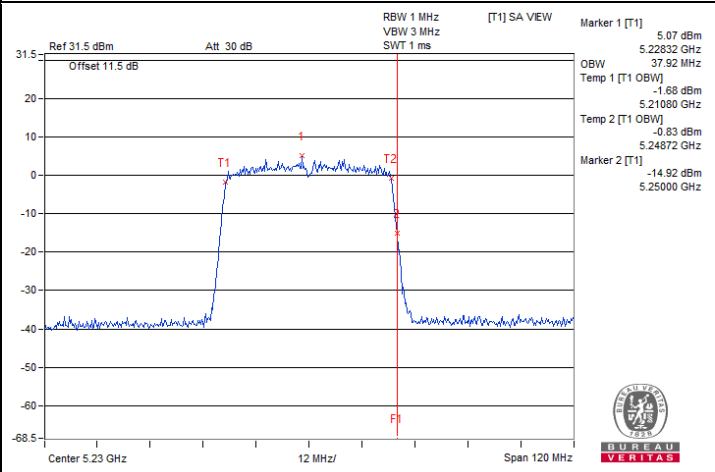
802.11ax (HE20) / Chain 0 : CH 48



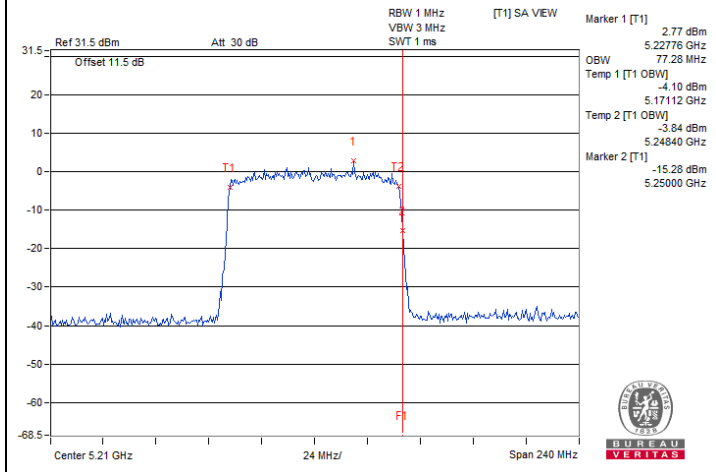
802.11ax (HE20) / Chain 1 : CH 48



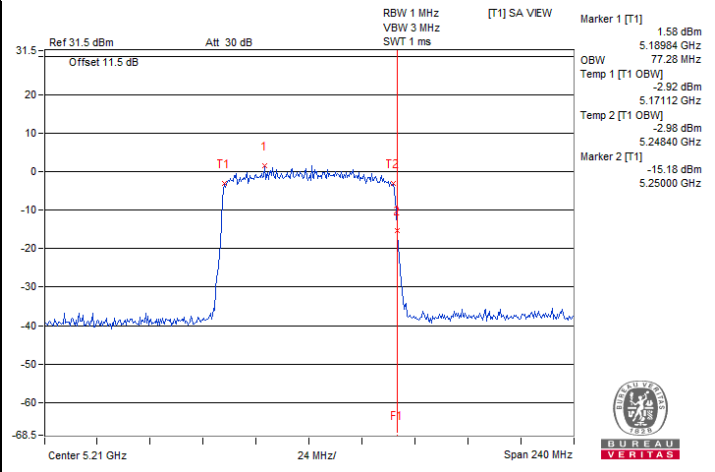
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46



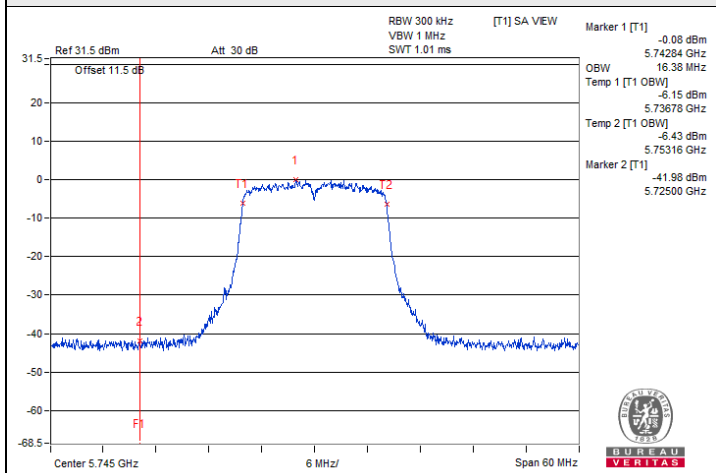
802.11ax (HE80) / Chain 0 : CH 42



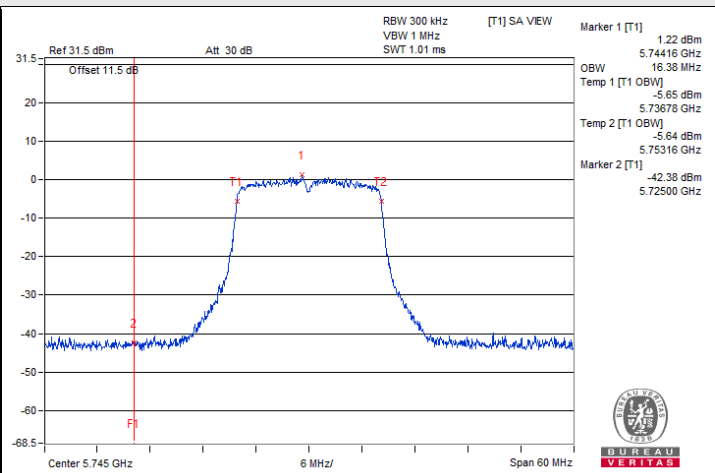
802.11ax (HE80) / Chain 1 : CH 42



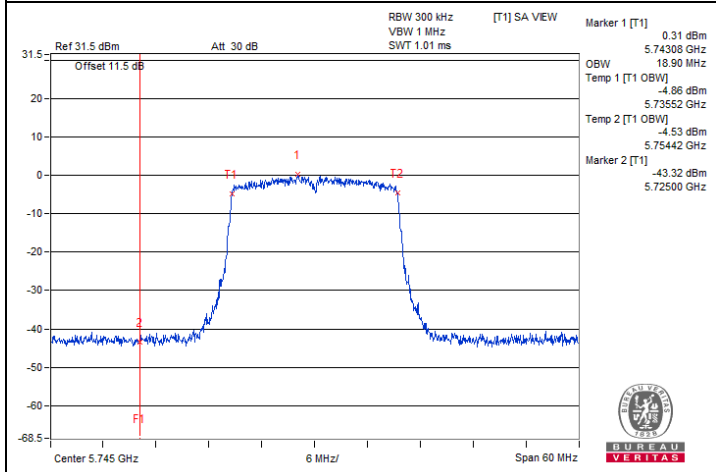
### Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



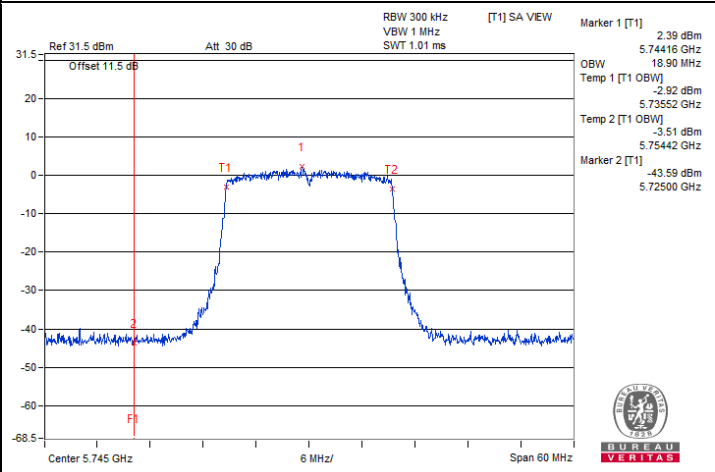
802.11a / Chain 0 : CH 149



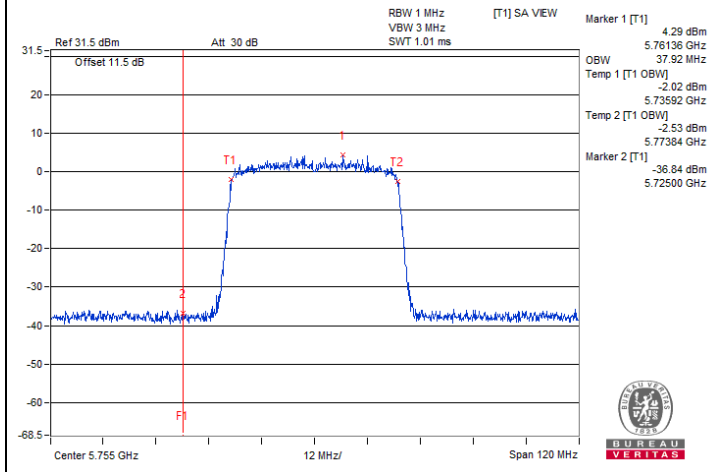
802.11a / Chain 1 : CH 149



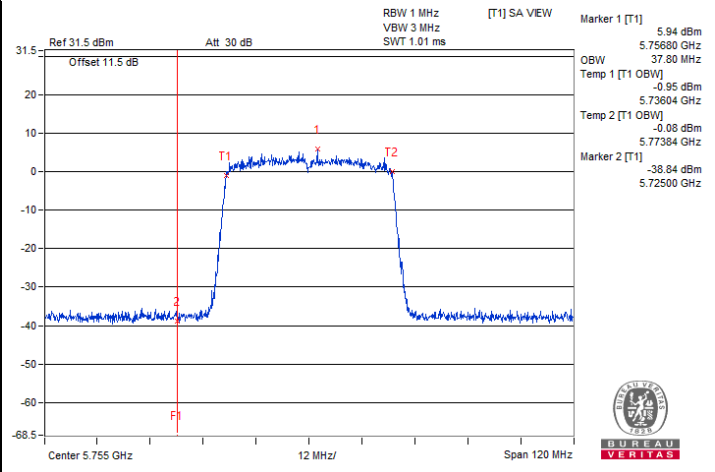
802.11ax (HE20) / Chain 0 : CH 149



802.11ax (HE20) / Chain 1 : CH 149



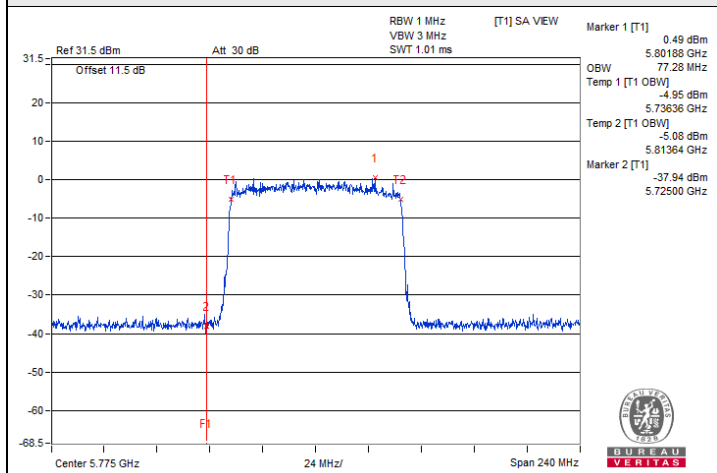
802.11ax (HE40) / Chain 0 : CH 151



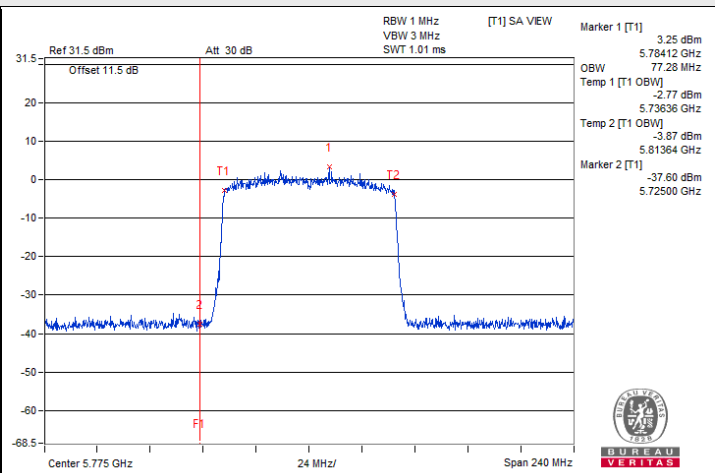
802.11ax (HE40) / Chain 1 : CH 151



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



802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155

## 7.6 Frequency Stability

Input Power:	56 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Jisyong Wang
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Frequency Stability Versus Temperature									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vdc)	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	56	5180.0162	Pass	5180.015	Pass	5180.0171	Pass	5180.0161	Pass
30	56	5180.0025	Pass	5180.0035	Pass	5180.0018	Pass	5180.0018	Pass
20	56	5179.993	Pass	5179.9957	Pass	5179.9928	Pass	5179.994	Pass
10	56	5180.0043	Pass	5180.0061	Pass	5180.0047	Pass	5180.0051	Pass
0	56	5180.0213	Pass	5180.021	Pass	5180.0204	Pass	5180.0222	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vdc)	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	64.4	5179.9977	Pass	5179.9999	Pass	5179.9972	Pass	5179.9977	Pass
	56	5179.993	Pass	5179.9957	Pass	5179.9928	Pass	5179.994	Pass
	47.6	5179.9854	Pass	5179.9857	Pass	5179.9872	Pass	5179.9842	Pass

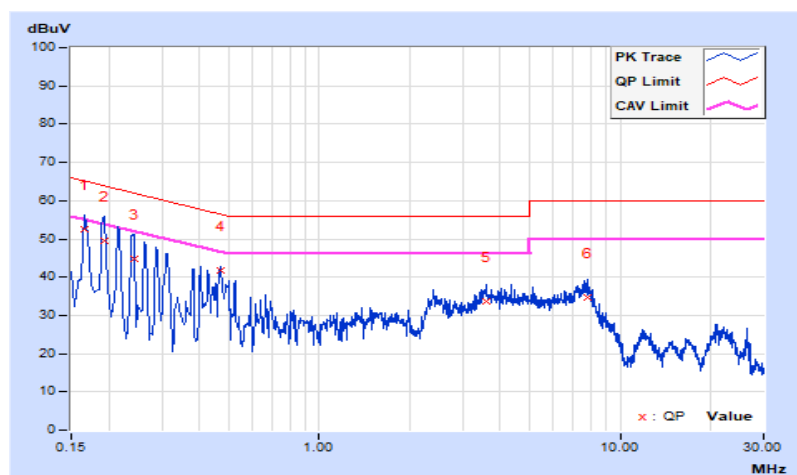
## 7.7 AC Power Conducted Emissions

RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 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	22°C, 64% RH
Tested By	Vincent Chen		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16600	9.63	43.03	24.72	52.66	34.35	65.16	55.16	-12.50	-20.81
2	0.19316	9.64	39.81	23.44	49.45	33.08	63.90	53.90	-14.45	-20.82
3	0.24165	9.65	34.99	16.26	44.64	25.91	62.04	52.04	-17.40	-26.13
<b>4</b>	<b>0.47000</b>	<b>9.68</b>	<b>32.00</b>	<b>28.13</b>	<b>41.68</b>	<b>37.81</b>	<b>56.51</b>	<b>46.51</b>	<b>-14.83</b>	<b>-8.70</b>
5	3.57400	9.73	24.09	17.99	33.82	27.72	56.00	46.00	-22.18	-18.28
6	7.75800	9.77	25.02	18.93	34.79	28.70	60.00	50.00	-25.21	-21.30

### Remarks:

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

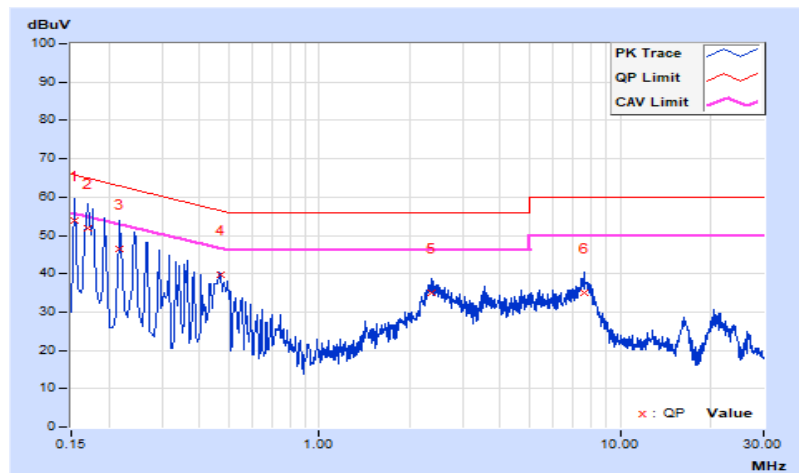


<b>RF Mode</b>	802.11ax (HE80)	<b>Channel</b>	CH 58 : 5290 MHz
<b>Frequency Range</b>	150 kHz ~ 30 MHz	<b>Detector Function &amp; Resolution Bandwidth</b>	Quasi-Peak (QP) / Average (AV), 9 kHz
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 64% RH
<b>Tested By</b>	Vincent Chen		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15400	9.63	44.40	24.61	54.03	34.24	65.78	55.78	-11.75	-21.54
2	0.17000	9.63	42.20	23.82	51.83	33.45	64.96	54.96	-13.13	-21.51
3	0.21800	9.64	36.68	15.97	46.32	25.61	62.89	52.89	-16.57	-27.28
4	0.47000	9.68	30.15	27.31	39.83	36.99	56.51	46.51	-16.68	-9.52
5	2.37800	9.74	25.35	18.42	35.09	28.16	56.00	46.00	-20.91	-17.84
6	7.56600	9.79	25.13	19.10	34.92	28.89	60.00	50.00	-25.08	-21.11

**Remarks:**

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



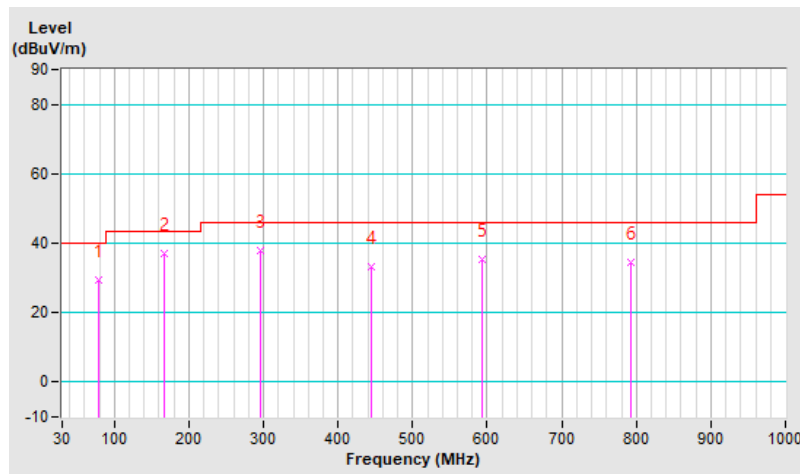
### 7.8 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 69% RH
Tested By	Vincent Chen		

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	78.50	29.3 QP	40.0	-10.7	2.00 H	322	46.3	-17.0
2	167.74	37.0 QP	43.5	-6.5	1.00 H	211	50.1	-13.1
3	296.75	37.8 QP	46.0	-8.2	1.00 H	185	49.9	-12.1
4	445.16	33.3 QP	46.0	-12.7	1.50 H	254	41.6	-8.3
5	593.57	35.5 QP	46.0	-10.5	1.00 H	241	40.8	-5.3
6	792.42	34.5 QP	46.0	-11.5	2.00 H	188	35.5	-1.0

**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 of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

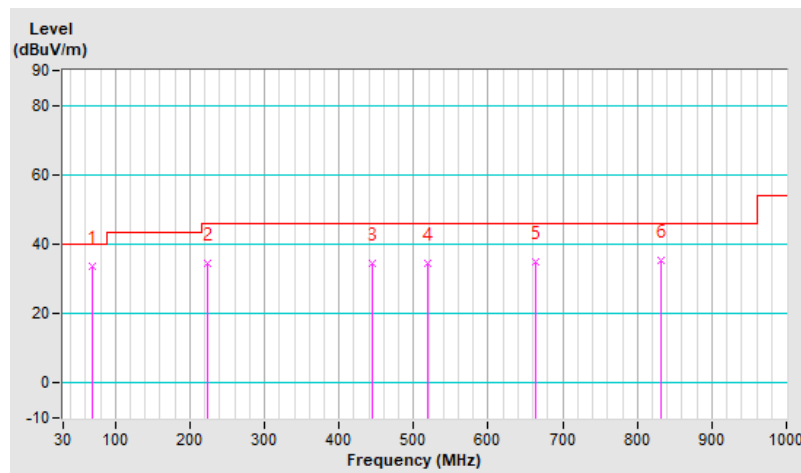


<b>RF Mode</b>	802.11ax (HE80)	<b>Channel</b>	CH 58 : 5290 MHz
<b>Frequency Range</b>	30 MHz ~ 1 GHz	<b>Detector Function &amp; Bandwidth</b>	QP: RB=120kHz, DET=Quasi-Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 69% RH
<b>Tested By</b>	Vincent Chen		

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	69.77	33.5 QP	40.0	-6.5	2.00 V	124	48.3	-14.8
2	224.00	34.5 QP	46.0	-11.5	1.00 V	344	50.6	-16.1
3	445.16	34.4 QP	46.0	-11.6	1.50 V	210	42.7	-8.3
4	518.88	34.5 QP	46.0	-11.5	1.00 V	153	40.8	-6.3
5	664.38	34.9 QP	46.0	-11.1	1.00 V	149	38.7	-3.8
6	831.22	35.4 QP	46.0	-10.6	1.50 V	27	36.3	-0.9

**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 frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



## 7.9 Unwanted Emissions above 1 GHz

<b>RF Mode</b>	802.11a	<b>Channel</b>	CH 36 : 5180 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

### Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.5 PK	74.0	-13.5	1.60 H	314	58.5	2.0
2	5150.00	46.9 AV	54.0	-7.1	1.60 H	314	44.9	2.0
3	*5180.00	93.2 PK			1.60 H	314	52.1	41.1
4	*5180.00	82.6 AV			1.60 H	314	41.5	41.1
5	#10360.00	63.4 PK	68.2	-4.8	2.74 H	153	53.7	9.7

### Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.6 PK	74.0	-13.4	1.47 V	45	58.6	2.0
2	5150.00	47.0 AV	54.0	-7.0	1.47 V	45	45.0	2.0
3	*5180.00	107.2 PK			1.47 V	45	66.1	41.1
4	*5180.00	96.7 AV			1.47 V	45	55.6	41.1
5	#10360.00	63.9 PK	68.2	-4.3	2.35 V	189	54.2	9.7

#### Remarks:

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



<b>RF Mode</b>	802.11a	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	93.4 PK			1.64 H	315	52.4	41.0
2	*5200.00	82.6 AV			1.64 H	315	41.6	41.0
3	#10400.00	63.8 PK	68.2	-4.4	1.89 H	238	54.1	9.7

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	107.7 PK			1.53 V	41	66.7	41.0
2	*5200.00	97.2 AV			1.53 V	41	56.2	41.0
3	#10400.00	64.0 PK	68.2	-4.2	2.41 V	168	54.3	9.7

**Remarks:**

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



<b>RF Mode</b>	802.11a	<b>Channel</b>	CH 48 : 5240 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	91.7 PK			1.62 H	311	50.9	40.8
2	*5240.00	81.6 AV			1.62 H	311	40.8	40.8
3	5350.00	59.5 PK	74.0	-14.5	1.62 H	311	58.3	1.2
4	5350.00	46.4 AV	54.0	-7.6	1.62 H	311	45.2	1.2
5	#10480.00	63.6 PK	68.2	-4.6	2.36 H	189	54.0	9.6

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	107.5 PK			1.47 V	42	66.7	40.8
2	*5240.00	97.0 AV			1.47 V	42	56.2	40.8
3	5350.00	59.6 PK	74.0	-14.4	1.47 V	42	58.4	1.2
4	5350.00	46.5 AV	54.0	-7.5	1.47 V	42	45.3	1.2
5	#10480.00	63.8 PK	68.2	-4.4	2.35 V	187	54.2	9.6

**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.

<b>RF Mode</b>	802.11ax (HE20)	<b>Channel</b>	CH 36 : 5180 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.8 PK	74.0	-13.2	1.65 H	310	58.8	2.0
2	5150.00	46.9 AV	54.0	-7.1	1.65 H	310	44.9	2.0
3	*5180.00	97.6 PK			1.65 H	310	56.5	41.1
4	*5180.00	84.1 AV			1.65 H	310	43.0	41.1
5	#10360.00	63.5 PK	68.2	-4.7	2.21 H	187	53.8	9.7

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.6 PK	74.0	-12.4	1.40 V	39	59.6	2.0
2	5150.00	47.0 AV	54.0	-7.0	1.40 V	39	45.0	2.0
3	*5180.00	110.9 PK			1.40 V	39	69.8	41.1
4	*5180.00	97.9 AV			1.40 V	39	56.8	41.1
5	#10360.00	64.2 PK	68.2	-4.0	2.23 V	168	54.5	9.7

**Remarks:**

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



<b>RF Mode</b>	802.11ax (HE20)	<b>Channel</b>	CH 40 : 5200 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	96.9 PK			1.59 H	309	55.9	41.0
2	*5200.00	83.6 AV			1.59 H	309	42.6	41.0
3	#10400.00	63.4 PK	68.2	-4.8	1.74 H	136	53.7	9.7

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	112.4 PK			1.49 V	33	71.4	41.0
2	*5200.00	98.7 AV			1.49 V	33	57.7	41.0
3	#10400.00	64.1 PK	68.2	-4.1	2.23 V	187	54.4	9.7

**Remarks:**

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



<b>RF Mode</b>	802.11ax (HE20)	<b>Channel</b>	CH 48 : 5240 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	96.9 PK			1.75 H	309	56.1	40.8
2	*5240.00	84.0 AV			1.75 H	309	43.2	40.8
3	5350.00	60.5 PK	74.0	-13.5	1.75 H	309	59.3	1.2
4	5350.00	46.4 AV	54.0	-7.6	1.75 H	309	45.2	1.2
5	#10480.00	63.4 PK	68.2	-4.8	1.53 H	269	53.8	9.6

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	112.1 PK			1.45 V	36	71.3	40.8
2	*5240.00	98.4 AV			1.45 V	36	57.6	40.8
3	5350.00	60.7 PK	74.0	-13.3	1.45 V	36	59.5	1.2
4	5350.00	46.6 AV	54.0	-7.4	1.45 V	36	45.4	1.2
5	#10480.00	63.9 PK	68.2	-4.3	2.65 V	188	54.3	9.6

**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.

<b>RF Mode</b>	802.11ax (HE40)	<b>Channel</b>	CH 38 : 5190 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.6 PK	74.0	-14.4	2.80 H	308	57.6	2.0
2	5150.00	47.0 AV	54.0	-7.0	2.80 H	308	45.0	2.0
3	*5190.00	94.1 PK			2.80 H	308	53.1	41.0
4	*5190.00	81.3 AV			2.80 H	308	40.3	41.0
5	#10380.00	62.7 PK	68.2	-5.5	1.41 H	123	53.1	9.6

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.6 PK	74.0	-13.4	1.59 V	40	58.6	2.0
2	5150.00	47.1 AV	54.0	-6.9	1.59 V	40	45.1	2.0
3	*5190.00	108.1 PK			1.59 V	40	67.1	41.0
4	*5190.00	95.6 AV			1.59 V	40	54.6	41.0
5	#10380.00	62.8 PK	68.2	-5.4	2.23 V	158	53.2	9.6

**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.



<b>RF Mode</b>	802.11ax (HE40)	<b>Channel</b>	CH 46 : 5230 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	*5230.00	94.8 PK			2.67 H	306	54.0	40.8
2	*5230.00	81.6 AV			2.67 H	306	40.8	40.8
3	5350.00	59.8 PK	74.0	-14.2	2.67 H	306	58.6	1.2
4	5350.00	46.4 AV	54.0	-7.6	2.67 H	306	45.2	1.2
5	#10460.00	62.6 PK	68.2	-5.6	1.16 H	208	53.0	9.6

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	108.4 PK			1.57 V	39	67.6	40.8
2	*5230.00	95.3 AV			1.57 V	39	54.5	40.8
3	5350.00	60.1 PK	74.0	-13.9	1.57 V	39	58.9	1.2
4	5350.00	46.7 AV	54.0	-7.3	1.57 V	39	45.5	1.2
5	#10460.00	63.2 PK	68.2	-5.0	1.98 V	225	53.6	9.6

**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.



<b>RF Mode</b>	802.11ax (HE80)	<b>Channel</b>	CH 42 : 5210 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.6 PK	74.0	-13.4	1.46 H	68	58.6	2.0
2	5150.00	47.0 AV	54.0	-7.0	1.46 H	68	45.0	2.0
3	*5210.00	90.8 PK			1.46 H	68	49.9	40.9
4	*5210.00	78.3 AV			1.46 H	68	37.4	40.9
5	#10420.00	62.6 PK	68.2	-5.6	2.46 H	183	53.1	9.5

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.8 PK	74.0	-13.2	1.47 V	32	58.8	2.0
2	5150.00	47.1 AV	54.0	-6.9	1.47 V	32	45.1	2.0
3	*5210.00	105.7 PK			1.47 V	32	64.8	40.9
4	*5210.00	92.4 AV			1.47 V	32	51.5	40.9
5	#10420.00	62.7 PK	68.2	-5.5	2.47 V	183	53.2	9.5

**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.

<b>RF Mode</b>	802.11a	<b>Channel</b>	CH 52 : 5260 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.5 PK	74.0	-13.5	1.68 H	312	58.5	2.0
2	5150.00	46.9 AV	54.0	-7.1	1.68 H	312	44.9	2.0
3	*5260.00	95.2 PK			1.68 H	312	54.5	40.7
4	*5260.00	85.0 AV			1.68 H	312	44.3	40.7
5	#10520.00	63.4 PK	68.2	-4.8	2.81 H	166	53.8	9.6

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.6 PK	74.0	-13.4	1.75 V	61	58.6	2.0
2	5150.00	47.0 AV	54.0	-7.0	1.75 V	61	45.0	2.0
3	*5260.00	109.9 PK			1.75 V	61	69.2	40.7
4	*5260.00	99.5 AV			1.75 V	61	58.8	40.7
5	#10520.00	64.1 PK	68.2	-4.1	2.41 V	192	54.5	9.6

**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.





<b>RF Mode</b>	802.11a	<b>Channel</b>	CH 60 : 5300 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

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	95.5 PK			1.70 H	311	54.9	40.6
2	*5300.00	84.7 AV			1.70 H	311	44.1	40.6
3	10600.00	63.0 PK	74.0	-11.0	2.77 H	171	53.5	9.5
4	10600.00	50.3 AV	54.0	-3.7	2.77 H	171	40.8	9.5

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	110.0 PK			1.82 V	58	69.4	40.6
2	*5300.00	99.3 AV			1.82 V	58	58.7	40.6
3	10600.00	64.1 PK	74.0	-9.9	2.45 V	168	54.6	9.5
4	10600.00	50.6 AV	54.0	-3.4	2.45 V	168	41.1	9.5

**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.



<b>RF Mode</b>	802.11a	<b>Channel</b>	CH 64 : 5320 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	96.1 PK			1.70 H	311	55.5	40.6
2	*5320.00	86.2 AV			1.70 H	311	45.6	40.6
3	5350.00	58.9 PK	74.0	-15.1	1.70 H	311	57.7	1.2
4	5350.00	45.8 AV	54.0	-8.2	1.70 H	311	44.6	1.2
5	10640.00	63.3 PK	74.0	-10.7	2.75 H	165	53.7	9.6
6	10640.00	50.3 AV	54.0	-3.7	2.75 H	165	40.7	9.6

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	109.8 PK			1.82 V	53	69.2	40.6
2	*5320.00	99.3 AV			1.82 V	53	58.7	40.6
3	5350.00	59.7 PK	74.0	-14.3	1.82 V	53	58.5	1.2
4	5350.00	46.4 AV	54.0	-7.6	1.82 V	53	45.2	1.2
5	10640.00	64.1 PK	74.0	-9.9	2.51 V	161	54.5	9.6
<b>6</b>	<b>10640.00</b>	<b>50.7 AV</b>	<b>54.0</b>	<b>-3.3</b>	<b>2.51 V</b>	<b>161</b>	<b>41.1</b>	<b>9.6</b>

**Remarks:**

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



<b>RF Mode</b>	802.11ax (HE20)	<b>Channel</b>	CH 52 : 5260 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.0 PK	74.0	-14.0	1.67 H	308	58.0	2.0
2	5150.00	46.9 AV	54.0	-7.1	1.67 H	308	44.9	2.0
3	*5260.00	97.7 PK			1.67 H	308	57.0	40.7
4	*5260.00	84.7 AV			1.67 H	308	44.0	40.7
5	#10520.00	63.5 PK	68.2	-4.7	2.14 H	185	53.9	9.6

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.1 PK	74.0	-13.9	1.46 V	56	58.1	2.0
2	5150.00	47.1 AV	54.0	-6.9	1.46 V	56	45.1	2.0
3	*5260.00	112.1 PK			1.46 V	56	71.4	40.7
4	*5260.00	98.6 AV			1.46 V	56	57.9	40.7
5	#10520.00	64.0 PK	68.2	-4.2	2.41 V	169	54.4	9.6

**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.



<b>RF Mode</b>	802.11ax (HE20)	<b>Channel</b>	CH 60 : 5300 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	98.8 PK			1.75 H	308	58.2	40.6
2	*5300.00	85.4 AV			1.75 H	308	44.8	40.6
3	10600.00	63.2 PK	74.0	-10.8	2.87 H	153	53.7	9.5
4	10600.00	49.8 AV	54.0	-4.2	2.87 H	153	40.3	9.5

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	112.1 PK			1.45 V	54	71.5	40.6
2	*5300.00	98.7 AV			1.45 V	54	58.1	40.6
3	10600.00	63.3 PK	74.0	-10.7	1.87 V	113	53.8	9.5
4	10600.00	49.9 AV	54.0	-4.1	1.87 V	113	40.4	9.5

**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.

<b>RF Mode</b>	802.11ax (HE20)	<b>Channel</b>	CH 64 : 5320 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	99.6 PK			1.72 H	308	59.0	40.6
2	*5320.00	86.4 AV			1.72 H	308	45.8	40.6
3	5350.00	59.9 PK	74.0	-14.1	1.72 H	308	58.7	1.2
4	5350.00	46.4 AV	54.0	-7.6	1.72 H	308	45.2	1.2
5	10640.00	63.3 PK	74.0	-10.7	2.04 H	169	53.7	9.6
6	10640.00	49.7 AV	54.0	-4.3	2.04 H	169	40.1	9.6

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	112.1 PK			1.41 V	49	71.5	40.6
2	*5320.00	99.0 AV			1.41 V	49	58.4	40.6
3	5350.00	60.1 PK	74.0	-13.9	1.41 V	49	58.9	1.2
4	5350.00	46.5 AV	54.0	-7.5	1.41 V	49	45.3	1.2
5	10640.00	63.5 PK	74.0	-10.5	2.83 V	197	53.9	9.6
6	10640.00	49.9 AV	54.0	-4.1	2.83 V	197	40.3	9.6

**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.



<b>RF Mode</b>	802.11ax (HE40)	<b>Channel</b>	CH 54 : 5270 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.3 PK	74.0	-13.7	2.61 H	303	58.3	2.0
2	5150.00	46.8 AV	54.0	-7.2	2.61 H	303	44.8	2.0
3	*5270.00	95.3 PK			2.61 H	303	54.6	40.7
4	*5270.00	82.1 AV			2.61 H	303	41.4	40.7
5	#10540.00	62.7 PK	68.2	-5.5	2.27 H	196	53.1	9.6

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.5 PK	74.0	-13.5	1.71 V	56	58.5	2.0
2	5150.00	46.9 AV	54.0	-7.1	1.71 V	56	44.9	2.0
3	*5270.00	108.9 PK			1.71 V	56	68.2	40.7
4	*5270.00	96.1 AV			1.71 V	56	55.4	40.7
5	#10540.00	63.3 PK	68.2	-4.9	2.23 V	197	53.7	9.6

**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.

<b>RF Mode</b>	802.11ax (HE40)	<b>Channel</b>	CH 62 : 5310 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

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	95.5 PK			2.63 H	305	54.9	40.6
2	*5310.00	83.3 AV			2.63 H	305	42.7	40.6
3	5350.00	60.3 PK	74.0	-13.7	2.63 H	305	59.1	1.2
4	5350.00	46.5 AV	54.0	-7.5	2.63 H	305	45.3	1.2
5	10620.00	62.5 PK	74.0	-11.5	1.72 H	223	53.0	9.5
6	10620.00	49.3 AV	54.0	-4.7	1.72 H	223	39.8	9.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	109.4 PK			2.04 V	59	68.8	40.6
2	*5310.00	96.7 AV			2.04 V	59	56.1	40.6
3	5350.00	60.4 PK	74.0	-13.6	2.04 V	59	59.2	1.2
4	5350.00	46.6 AV	54.0	-7.4	2.04 V	59	45.4	1.2
5	10620.00	62.9 PK	74.0	-11.1	1.35 V	228	53.4	9.5
6	10620.00	49.7 AV	54.0	-4.3	1.35 V	228	40.2	9.5

**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.



<b>RF Mode</b>	802.11ax (HE80)	<b>Channel</b>	CH 58 : 5290 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	91.5 PK			1.41 H	61	50.9	40.6
2	*5290.00	78.5 AV			1.41 H	61	37.9	40.6
3	5350.00	59.7 PK	74.0	-14.3	1.41 H	61	58.5	1.2
4	5350.00	46.5 AV	54.0	-7.5	1.41 H	61	45.3	1.2
5	#10580.00	62.8 PK	68.2	-5.4	2.24 H	118	53.2	9.6

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	106.5 PK			1.96 V	60	65.9	40.6
2	*5290.00	93.2 AV			1.96 V	60	52.6	40.6
3	5350.00	60.1 PK	74.0	-13.9	1.96 V	60	58.9	1.2
4	5350.00	47.0 AV	54.0	-7.0	1.96 V	60	45.8	1.2
5	#10580.00	62.7 PK	68.2	-5.5	1.16 V	252	53.1	9.6

**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.





<b>RF Mode</b>	802.11a	<b>Channel</b>	CH 100 : 5500 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

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	60.2 PK	74.0	-13.8	1.55 H	310	58.7	1.5
2	5460.00	46.4 AV	54.0	-7.6	1.55 H	310	44.9	1.5
3	#5470.00	60.8 PK	68.2	-7.4	1.55 H	310	59.3	1.5
4	*5500.00	93.4 PK			1.55 H	310	52.3	41.1
5	*5500.00	84.2 AV			1.55 H	310	43.1	41.1
6	11000.00	62.1 PK	74.0	-11.9	2.73 H	169	53.5	8.6
7	11000.00	49.2 AV	54.0	-4.8	2.73 H	169	40.6	8.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.2 PK	74.0	-14.8	1.77 V	59	57.7	1.5
2	5460.00	46.4 AV	54.0	-7.6	1.77 V	59	44.9	1.5
3	#5470.00	60.0 PK	68.2	-8.2	1.77 V	59	58.5	1.5
4	*5500.00	109.2 PK			1.77 V	59	68.1	41.1
5	*5500.00	98.6 AV			1.77 V	59	57.5	41.1
6	11000.00	63.2 PK	74.0	-10.8	2.53 V	165	54.6	8.6
7	11000.00	49.8 AV	54.0	-4.2	2.53 V	165	41.2	8.6

**Remarks:**

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



<b>RF Mode</b>	802.11a	<b>Channel</b>	CH 116 : 5580 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	93.9 PK			1.52 H	310	52.5	41.4
2	*5580.00	82.9 AV			1.52 H	310	41.5	41.4
3	11160.00	62.3 PK	74.0	-11.7	2.75 H	162	53.6	8.7
4	11160.00	49.3 AV	54.0	-4.7	2.75 H	162	40.6	8.7

**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	109.5 PK			1.61 V	56	68.1	41.4
2	*5580.00	99.0 AV			1.61 V	56	57.6	41.4
3	11160.00	63.3 PK	74.0	-10.7	2.57 V	162	54.6	8.7
4	11160.00	49.8 AV	54.0	-4.2	2.57 V	162	41.1	8.7

**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.



<b>RF Mode</b>	802.11a	<b>Channel</b>	CH 140 : 5700 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	95.0 PK			1.79 H	291	53.6	41.4
2	*5700.00	85.0 AV			1.79 H	291	43.6	41.4
3	#5725.00	61.4 PK	68.2	-6.8	1.79 H	291	59.6	1.8
4	11400.00	63.2 PK	74.0	-10.8	2.68 H	163	53.8	9.4
5	11400.00	50.1 AV	54.0	-3.9	2.68 H	163	40.7	9.4

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	108.1 PK			1.92 V	69	66.7	41.4
2	*5700.00	97.0 AV			1.92 V	69	55.6	41.4
3	#5725.00	60.1 PK	68.2	-8.1	1.92 V	69	58.3	1.8
4	11400.00	63.6 PK	74.0	-10.4	2.55 V	169	54.2	9.4
5	11400.00	50.2 AV	54.0	-3.8	2.55 V	169	40.8	9.4

**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.



<b>RF Mode</b>	802.11a	<b>Channel</b>	CH 144 : 5720 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	*5720.00	94.8 PK			1.74 H	292	53.3	41.5
2	*5720.00	84.2 AV			1.74 H	292	42.7	41.5
3	#5850.00	60.1 PK	68.2	-8.1	1.74 H	292	57.8	2.3
4	11440.00	62.5 PK	74.0	-11.5	2.71 H	171	53.4	9.1
5	11440.00	49.4 AV	54.0	-4.6	2.71 H	171	40.3	9.1

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	107.7 PK			1.95 V	69	66.2	41.5
2	*5720.00	97.7 AV			1.95 V	69	56.2	41.5
3	#5850.00	61.0 PK	68.2	-7.2	1.95 V	69	58.7	2.3
4	11440.00	63.3 PK	74.0	-10.7	2.58 V	171	54.2	9.1
5	11440.00	50.4 AV	54.0	-3.6	2.58 V	171	41.3	9.1

**Remarks:**

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



<b>RF Mode</b>	802.11ax (HE20)	<b>Channel</b>	CH 100 : 5500 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	60.1 PK	74.0	-13.9	1.49 H	48	58.6	1.5
2	5460.00	46.6 AV	54.0	-7.4	1.49 H	48	45.1	1.5
3	#5470.00	60.3 PK	68.2	-7.9	1.49 H	48	58.8	1.5
4	*5500.00	100.3 PK			1.49 H	48	59.2	41.1
5	*5500.00	86.6 AV			1.49 H	48	45.5	41.1
6	11000.00	61.8 PK	74.0	-12.2	2.04 H	187	53.2	8.6
7	11000.00	48.4 AV	54.0	-5.6	2.04 H	187	39.8	8.6

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.2 PK	74.0	-13.8	2.17 V	61	58.7	1.5
2	5460.00	46.7 AV	54.0	-7.3	2.17 V	61	45.2	1.5
3	#5470.00	60.4 PK	68.2	-7.8	2.17 V	61	58.9	1.5
4	*5500.00	111.6 PK			2.17 V	61	70.5	41.1
5	*5500.00	98.8 AV			2.17 V	61	57.7	41.1
6	11000.00	62.0 PK	74.0	-12.0	2.13 V	156	53.4	8.6
7	11000.00	48.7 AV	54.0	-5.3	2.13 V	156	40.1	8.6

**Remarks:**

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



<b>RF Mode</b>	802.11ax (HE20)	<b>Channel</b>	CH 116 : 5580 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	100.2 PK			1.61 H	42	58.8	41.4
2	*5580.00	86.9 AV			1.61 H	42	45.5	41.4
3	11160.00	62.1 PK	74.0	-11.9	2.07 H	116	53.4	8.7
4	11160.00	49.3 AV	54.0	-4.7	2.07 H	116	40.6	8.7

**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	112.4 PK			2.10 V	57	71.0	41.4
2	*5580.00	99.5 AV			2.10 V	57	58.1	41.4
3	11160.00	62.3 PK	74.0	-11.7	1.63 V	207	53.6	8.7
4	11160.00	49.5 AV	54.0	-4.5	1.63 V	207	40.8	8.7

**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.



<b>RF Mode</b>	802.11ax (HE20)	<b>Channel</b>	CH 140 : 5700 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	99.7 PK			1.79 H	59	58.3	41.4
2	*5700.00	85.9 AV			1.79 H	59	44.5	41.4
3	#5725.00	60.7 PK	68.2	-7.5	1.79 H	59	58.9	1.8
4	11400.00	62.7 PK	74.0	-11.3	2.63 H	119	53.3	9.4
5	11400.00	49.9 AV	54.0	-4.1	2.63 H	119	40.5	9.4

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	111.0 PK			2.05 V	62	69.6	41.4
2	*5700.00	98.5 AV			2.05 V	62	57.1	41.4
3	#5725.00	60.8 PK	68.2	-7.4	2.05 V	62	59.0	1.8
4	11400.00	62.8 PK	74.0	-11.2	1.63 V	228	53.4	9.4
5	11400.00	50.0 AV	54.0	-4.0	1.63 V	228	40.6	9.4

**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.

<b>RF Mode</b>	802.11ax (HE20)	<b>Channel</b>	CH 144 : 5720 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

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	*5720.00	100.0 PK			1.88 H	66	58.5	41.5
2	*5720.00	86.3 AV			1.88 H	66	44.8	41.5
3	#5850.00	61.1 PK	68.2	-7.1	1.88 H	66	58.8	2.3
4	11440.00	62.3 PK	74.0	-11.7	1.56 H	298	53.2	9.1
5	11440.00	49.5 AV	54.0	-4.5	1.56 H	298	40.4	9.1

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5720.00	111.6 PK			2.04 V	64	70.1	41.5
2	*5720.00	98.5 AV			2.04 V	64	57.0	41.5
3	#5850.00	61.3 PK	68.2	-6.9	2.04 V	64	59.0	2.3
4	11440.00	62.4 PK	74.0	-11.6	1.98 V	227	53.3	9.1
5	11440.00	49.6 AV	54.0	-4.4	1.98 V	227	40.5	9.1

**Remarks:**

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





<b>RF Mode</b>	802.11ax (HE40)	<b>Channel</b>	CH 102 : 5510 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

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	60.2 PK	74.0	-13.8	1.53 H	45	58.7	1.5
2	5460.00	46.7 AV	54.0	-7.3	1.53 H	45	45.2	1.5
3	#5470.00	60.6 PK	68.2	-7.6	1.53 H	45	59.1	1.5
4	*5510.00	96.7 PK			1.53 H	45	55.6	41.1
5	*5510.00	83.6 AV			1.53 H	45	42.5	41.1
6	11020.00	61.7 PK	74.0	-12.3	1.89 H	206	53.1	8.6
7	11020.00	48.4 AV	54.0	-5.6	1.89 H	206	39.8	8.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.6 PK	74.0	-13.4	2.68 V	62	59.1	1.5
2	5460.00	46.9 AV	54.0	-7.1	2.68 V	62	45.4	1.5
3	#5470.00	60.7 PK	68.2	-7.5	2.68 V	62	59.2	1.5
4	*5510.00	109.4 PK			2.68 V	62	68.3	41.1
5	*5510.00	95.9 AV			2.68 V	62	54.8	41.1
6	11020.00	61.9 PK	74.0	-12.1	1.23 V	289	53.3	8.6
7	11020.00	48.7 AV	54.0	-5.3	1.23 V	289	40.1	8.6

**Remarks:**

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



<b>RF Mode</b>	802.11ax (HE40)	<b>Channel</b>	CH 110 : 5550 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	97.0 PK			1.67 H	50	55.7	41.3
2	*5550.00	83.6 AV			1.67 H	50	42.3	41.3
3	11100.00	61.8 PK	74.0	-12.2	2.87 H	146	53.2	8.6
4	11100.00	48.5 AV	54.0	-5.5	2.87 H	146	39.9	8.6

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	108.7 PK			2.49 V	56	67.4	41.3
2	*5550.00	96.0 AV			2.49 V	56	54.7	41.3
3	11100.00	62.0 PK	74.0	-12.0	1.52 V	228	53.4	8.6
4	11100.00	48.7 AV	54.0	-5.3	1.52 V	228	40.1	8.6

**Remarks:**

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



<b>RF Mode</b>	802.11ax (HE40)	<b>Channel</b>	CH 134 : 5670 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	96.2 PK			1.83 H	65	54.8	41.4
2	*5670.00	83.4 AV			1.83 H	65	42.0	41.4
3	#5725.00	61.0 PK	68.2	-7.2	1.83 H	65	59.2	1.8
4	11140.00	61.9 PK	74.0	-12.1	2.82 H	177	53.2	8.7
5	11140.00	48.4 AV	54.0	-5.6	2.82 H	177	39.7	8.7

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	108.3 PK			2.47 V	59	66.9	41.4
2	*5670.00	95.7 AV			2.47 V	59	54.3	41.4
3	#5725.00	61.3 PK	68.2	-6.9	2.47 V	59	59.5	1.8
4	11140.00	62.0 PK	74.0	-12.0	1.41 V	198	53.3	8.7
5	11140.00	48.7 AV	54.0	-5.3	1.41 V	198	40.0	8.7

**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.



<b>RF Mode</b>	802.11ax (HE40)	<b>Channel</b>	CH 142 : 5710 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

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	*5710.00	96.1 PK			1.81 H	59	54.7	41.4
2	*5710.00	82.9 AV			1.81 H	59	41.5	41.4
3	#5850.00	61.5 PK	68.2	-6.7	1.81 H	59	59.2	2.3
4	11420.00	62.5 PK	74.0	-11.5	2.78 H	166	53.3	9.2
5	11420.00	49.0 AV	54.0	-5.0	2.78 H	166	39.8	9.2

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5710.00	108.0 PK			2.49 V	61	66.6	41.4
2	*5710.00	95.7 AV			2.49 V	61	54.3	41.4
3	#5850.00	61.3 PK	68.2	-6.9	2.49 V	61	59.0	2.3
4	11420.00	62.6 PK	74.0	-11.4	1.78 V	204	53.4	9.2
5	11420.00	49.3 AV	54.0	-4.7	1.78 V	204	40.1	9.2

**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.



<b>RF Mode</b>	802.11ax (HE80)	<b>Channel</b>	CH 106 : 5530 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

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	60.2 PK	74.0	-13.8	1.45 H	48	58.7	1.5
2	5460.00	46.8 AV	54.0	-7.2	1.45 H	48	45.3	1.5
3	#5470.00	60.2 PK	68.2	-8.0	1.45 H	48	58.7	1.5
4	*5530.00	92.4 PK			1.45 H	48	51.2	41.2
5	*5530.00	80.3 AV			1.45 H	48	39.1	41.2
6	11060.00	61.4 PK	74.0	-12.6	2.24 H	158	52.8	8.6
7	11060.00	48.4 AV	54.0	-5.6	2.24 H	158	39.8	8.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.5 PK	74.0	-13.5	2.51 V	66	59.0	1.5
2	5460.00	47.3 AV	54.0	-6.7	2.51 V	66	45.8	1.5
3	#5470.00	60.2 PK	68.2	-8.0	2.51 V	66	58.7	1.5
4	*5530.00	106.4 PK			2.51 V	66	65.2	41.2
5	*5530.00	93.1 AV			2.51 V	66	51.9	41.2
6	11060.00	61.8 PK	74.0	-12.2	1.41 V	113	53.2	8.6
7	11060.00	48.8 AV	54.0	-5.2	1.41 V	113	40.2	8.6

**Remarks:**

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



<b>RF Mode</b>	802.11ax (HE80)	<b>Channel</b>	CH 122 : 5610 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	93.6 PK			1.66 H	61	52.1	41.5
2	*5610.00	80.8 AV			1.66 H	61	39.3	41.5
3	#5725.00	60.5 PK	68.2	-7.7	1.66 H	61	58.7	1.8
4	11220.00	62.2 PK	74.0	-11.8	2.89 H	176	53.2	9.0
5	11220.00	49.3 AV	54.0	-4.7	2.89 H	176	40.3	9.0

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	105.3 PK			1.49 V	49	63.8	41.5
2	*5610.00	92.7 AV			1.49 V	49	51.2	41.5
3	#5725.00	60.6 PK	68.2	-7.6	1.49 V	49	58.8	1.8
4	11220.00	62.3 PK	74.0	-11.7	2.04 V	169	53.3	9.0
5	11220.00	49.4 AV	54.0	-4.6	2.04 V	169	40.4	9.0

**Remarks:**

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



<b>RF Mode</b>	802.11ax (HE80)	<b>Channel</b>	CH 138 : 5690 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	*5690.00	93.2 PK			1.89 H	67	51.8	41.4
2	*5690.00	80.3 AV			1.89 H	67	38.9	41.4
3	#5850.00	61.4 PK	68.2	-6.8	1.89 H	67	59.1	2.3
4	11380.00	62.5 PK	74.0	-11.5	2.27 H	169	53.1	9.4
5	11380.00	49.4 AV	54.0	-4.6	2.27 H	169	40.0	9.4

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5690.00	105.7 PK			2.47 V	60	64.3	41.4
2	*5690.00	92.5 AV			2.47 V	60	51.1	41.4
3	#5850.00	61.5 PK	68.2	-6.7	2.47 V	60	59.2	2.3
4	11380.00	62.6 PK	74.0	-11.4	1.47 V	106	53.2	9.4
5	11380.00	49.7 AV	54.0	-4.3	1.47 V	106	40.3	9.4

**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.

<b>RF Mode</b>	802.11a	<b>Channel</b>	CH 149 : 5745 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	#5641.20	59.0 PK	68.2	-9.2	1.62 H	297	57.2	1.8
2	*5745.00	95.3 PK			1.62 H	297	53.7	41.6
3	*5745.00	83.9 AV			1.62 H	297	42.3	41.6
4	#5954.40	59.2 PK	68.2	-9.0	1.62 H	297	56.9	2.3
5	11490.00	62.1 PK	74.0	-11.9	2.69 H	164	53.4	8.7
6	11490.00	49.2 AV	54.0	-4.8	2.69 H	164	40.5	8.7

**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	#5630.40	60.5 PK	68.2	-7.7	1.98 V	70	58.7	1.8
2	*5745.00	108.4 PK			1.98 V	70	66.8	41.6
3	*5745.00	98.0 AV			1.98 V	70	56.4	41.6
4	#5946.00	59.7 PK	68.2	-8.5	1.98 V	70	57.4	2.3
5	11490.00	63.0 PK	74.0	-11.0	2.54 V	161	54.3	8.7
6	11490.00	49.9 AV	54.0	-4.1	2.54 V	161	41.2	8.7

**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.





<b>RF Mode</b>	802.11a	<b>Channel</b>	CH 157 : 5785 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	#5624.00	60.2 PK	68.2	-8.0	1.64 H	292	58.4	1.8
2	*5785.00	92.7 PK			1.64 H	292	51.0	41.7
3	*5785.00	82.1 AV			1.64 H	292	40.4	41.7
4	#5970.80	62.1 PK	68.2	-6.1	1.64 H	292	59.8	2.3
5	11570.00	62.0 PK	74.0	-12.0	2.72 H	169	53.5	8.5
6	11570.00	48.9 AV	54.0	-5.1	2.72 H	169	40.4	8.5

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.80	59.4 PK	68.2	-8.8	1.99 V	66	57.6	1.8
2	*5785.00	108.4 PK			1.99 V	66	66.7	41.7
3	*5785.00	98.0 AV			1.99 V	66	56.3	41.7
4	#5954.80	59.6 PK	68.2	-8.6	1.99 V	66	57.3	2.3
5	11570.00	62.6 PK	74.0	-11.4	2.57 V	161	54.1	8.5
6	11570.00	49.5 AV	54.0	-4.5	2.57 V	161	41.0	8.5

**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.



<b>RF Mode</b>	802.11a	<b>Channel</b>	CH 165 : 5825 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5634.40	60.0 PK	68.2	-8.2	1.58 H	282	58.2	1.8
2	*5825.00	95.7 PK			1.58 H	292	53.8	41.9
3	*5825.00	83.9 AV			1.58 H	292	42.0	41.9
4	#5952.80	60.6 PK	68.2	-7.6	1.58 H	292	58.3	2.3
5	11650.00	61.4 PK	74.0	-12.6	2.73 H	172	53.4	8.0
6	11650.00	48.2 AV	54.0	-5.8	2.73 H	172	40.2	8.0

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5626.00	59.7 PK	68.2	-8.5	1.99 V	68	57.9	1.8
2	*5825.00	108.6 PK			1.99 V	68	66.7	41.9
3	*5825.00	100.2 AV			1.99 V	68	58.3	41.9
4	#5956.00	60.6 PK	68.2	-7.6	1.99 V	68	58.3	2.3
5	11650.00	62.4 PK	74.0	-11.6	2.55 V	163	54.4	8.0
6	11650.00	49.0 AV	54.0	-5.0	2.55 V	163	41.0	8.0

**Remarks:**

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



<b>RF Mode</b>	802.11ax (HE20)	<b>Channel</b>	CH 149 : 5745 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	#5624.40	59.6 PK	68.2	-8.6	1.85 H	63	57.8	1.8
2	*5745.00	99.9 PK			1.85 H	63	58.3	41.6
3	*5745.00	86.1 AV			1.85 H	63	44.5	41.6
4	#5968.00	61.0 PK	68.2	-7.2	1.85 H	63	58.7	2.3
5	11490.00	61.8 PK	74.0	-12.2	2.96 H	173	53.1	8.7
6	11490.00	48.9 AV	54.0	-5.1	2.96 H	173	40.2	8.7

**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	#5641.60	60.0 PK	68.2	-8.2	2.05 V	64	58.2	1.8
2	*5745.00	111.9 PK			2.05 V	64	70.3	41.6
3	*5745.00	98.8 AV			2.05 V	64	57.2	41.6
4	#5927.20	60.6 PK	68.2	-7.6	2.05 V	64	58.4	2.2
5	11490.00	61.9 PK	74.0	-12.1	1.83 V	220	53.2	8.7
6	11490.00	49.1 AV	54.0	-4.9	1.83 V	220	40.4	8.7

**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.



<b>RF Mode</b>	802.11ax (HE20)	<b>Channel</b>	CH 157 : 5785 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	#5641.20	60.4 PK	68.2	-7.8	1.86 H	59	58.6	1.8
2	*5785.00	100.1 PK			1.86 H	59	58.4	41.7
3	*5785.00	85.9 AV			1.86 H	59	44.2	41.7
4	#5992.80	60.9 PK	68.2	-7.3	1.86 H	59	58.7	2.2
5	11570.00	61.5 PK	74.0	-12.5	2.26 H	287	53.0	8.5
6	11570.00	48.6 AV	54.0	-5.4	2.26 H	287	40.1	8.5

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5622.80	60.2 PK	68.2	-8.0	2.00 V	65	58.4	1.8
2	*5785.00	111.8 PK			2.00 V	65	70.1	41.7
3	*5785.00	98.9 AV			2.00 V	65	57.2	41.7
4	#5962.40	60.7 PK	68.2	-7.5	2.00 V	65	58.4	2.3
5	11570.00	61.7 PK	74.0	-12.3	1.62 V	228	53.2	8.5
6	11570.00	48.8 AV	54.0	-5.2	1.62 V	228	40.3	8.5

**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.



<b>RF Mode</b>	802.11ax (HE20)	<b>Channel</b>	CH 165 : 5825 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5637.20	59.4 PK	68.2	-8.8	1.90 H	63	57.6	1.8
2	*5825.00	99.4 PK			1.90 H	63	57.5	41.9
3	*5825.00	86.5 AV			1.90 H	63	44.6	41.9
4	#5928.00	60.7 PK	68.2	-7.5	1.90 H	63	58.5	2.2
5	11650.00	61.1 PK	74.0	-12.9	2.28 H	174	53.1	8.0
6	11650.00	48.2 AV	54.0	-5.8	2.28 H	174	40.2	8.0

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5626.40	61.1 PK	68.2	-7.1	1.99 V	60	59.3	1.8
2	*5825.00	112.6 PK			1.99 V	60	70.7	41.9
3	*5825.00	99.6 AV			1.99 V	60	57.7	41.9
4	#5966.80	60.9 PK	68.2	-7.3	1.99 V	60	58.6	2.3
5	11650.00	61.3 PK	74.0	-12.7	1.15 V	297	53.3	8.0
6	11650.00	48.4 AV	54.0	-5.6	1.15 V	297	40.4	8.0

**Remarks:**

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



<b>RF Mode</b>	802.11ax (HE40)	<b>Channel</b>	CH 151 : 5755 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**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	#5639.20	59.1 PK	68.2	-9.1	1.83 H	59	57.3	1.8
2	*5755.00	96.0 PK			1.83 H	59	54.4	41.6
3	*5755.00	82.9 AV			1.83 H	59	41.3	41.6
4	#5945.60	60.9 PK	68.2	-7.3	1.83 H	59	58.6	2.3
5	11510.00	61.9 PK	74.0	-12.1	1.23 H	225	53.4	8.5
6	11510.00	48.5 AV	54.0	-5.5	1.23 H	225	40.0	8.5

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5619.60	60.0 PK	68.2	-8.2	2.52 V	59	58.2	1.8
2	*5755.00	108.2 PK			2.52 V	59	66.6	41.6
3	*5755.00	95.8 AV			2.52 V	59	54.2	41.6
4	#5940.80	61.1 PK	68.2	-7.1	2.52 V	59	58.8	2.3
5	11510.00	62.0 PK	74.0	-12.0	3.14 V	178	53.5	8.5
6	11510.00	48.7 AV	54.0	-5.3	3.14 V	178	40.2	8.5

**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.



<b>RF Mode</b>	802.11ax (HE40)	<b>Channel</b>	CH 159 : 5795 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5613.20	59.8 PK	68.2	-8.4	1.91 H	62	58.0	1.8
2	*5795.00	96.4 PK			1.91 H	62	54.6	41.8
3	*5795.00	83.4 AV			1.91 H	62	41.6	41.8
4	#5982.80	61.9 PK	68.2	-6.3	1.91 H	62	59.6	2.3
5	11590.00	61.6 PK	74.0	-12.4	2.25 H	174	53.3	8.3
6	11590.00	48.4 AV	54.0	-5.6	2.25 H	174	40.1	8.3

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5618.00	60.4 PK	68.2	-7.8	2.54 V	59	58.6	1.8
2	*5795.00	109.0 PK			2.54 V	59	67.2	41.8
3	*5795.00	95.8 AV			2.54 V	59	54.0	41.8
4	#5967.60	61.2 PK	68.2	-7.0	2.54 V	59	58.9	2.3
5	11590.00	61.7 PK	74.0	-12.3	1.41 V	123	53.4	8.3
6	11590.00	48.5 AV	54.0	-5.5	1.41 V	123	40.2	8.3

**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.

<b>RF Mode</b>	802.11ax (HE80)	<b>Channel</b>	CH 155 : 5775 MHz
<b>Frequency Range</b>	1 GHz ~ 40 GHz	<b>Detector Function &amp; Bandwidth</b>	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 kHz, DET=Peak
<b>Input Power</b>	120 Vac, 60 Hz	<b>Environmental Conditions</b>	22°C, 75% RH
<b>Tested By</b>	Vincent Chen		

**Antenna Polarity & Test Distance : Horizontal at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5638.40	60.1 PK	68.2	-8.1	1.94 H	59	58.3	1.8
2	*5775.00	92.7 PK			1.94 H	59	51.0	41.7
3	*5775.00	80.2 AV			1.94 H	59	38.5	41.7
4	#5969.60	60.6 PK	68.2	-7.6	1.94 H	59	58.3	2.3
5	11550.00	61.6 PK	74.0	-12.4	1.03 H	228	53.2	8.4
6	11550.00	48.6 AV	54.0	-5.4	1.03 H	228	40.2	8.4

**Antenna Polarity & Test Distance : Vertical at 3 m**

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5629.60	60.0 PK	68.2	-8.2	2.01 V	70	58.2	1.8
2	*5775.00	106.5 PK			2.01 V	70	64.8	41.7
3	*5775.00	92.4 AV			2.01 V	70	50.7	41.7
4	#5970.80	60.8 PK	68.2	-7.4	2.01 V	70	58.5	2.3
5	11550.00	61.7 PK	74.0	-12.3	1.47 V	136	53.3	8.4
6	11550.00	48.8 AV	54.0	-5.2	1.47 V	136	40.4	8.4

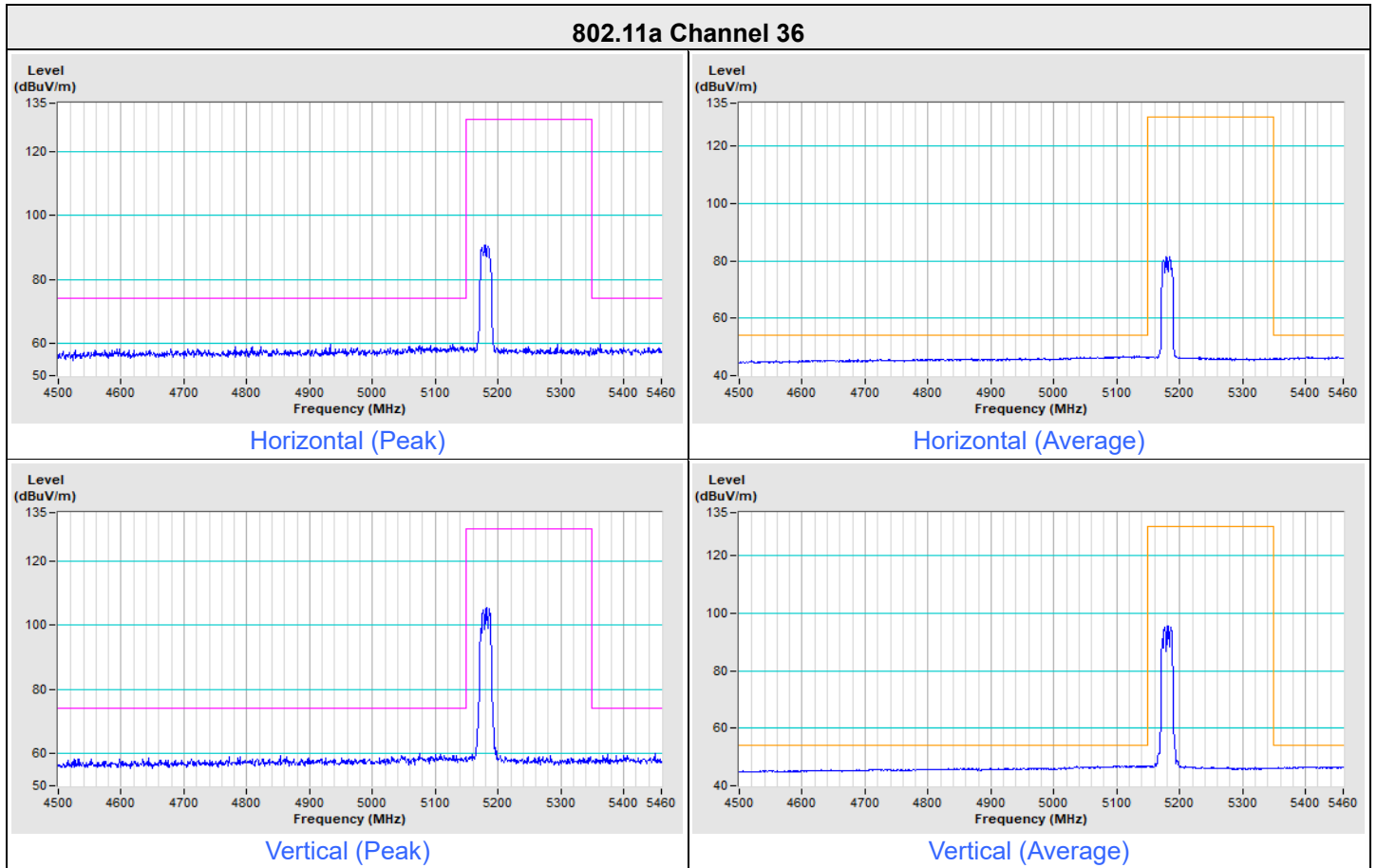
**Remarks:**

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.

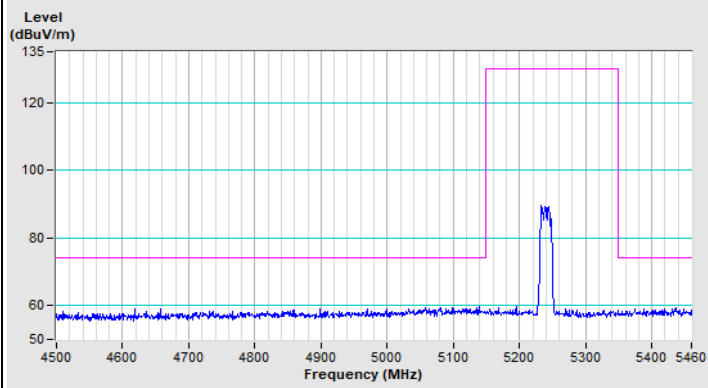


### Plot of Band Edge

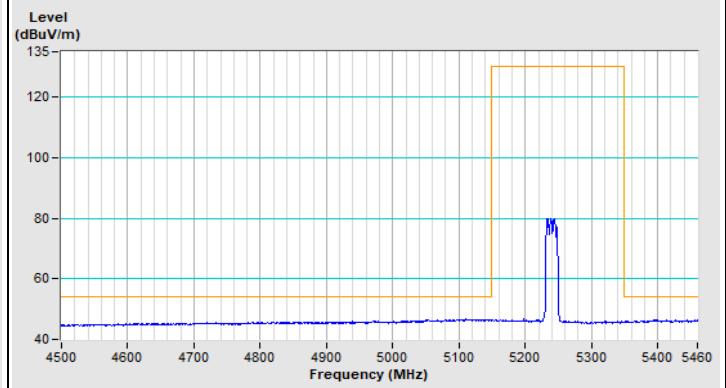
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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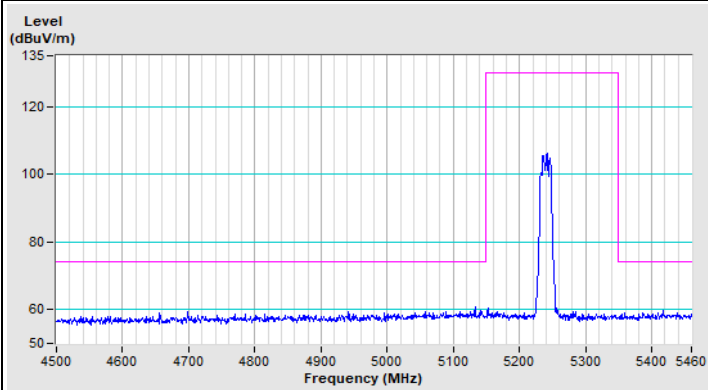
### 802.11a Channel 48



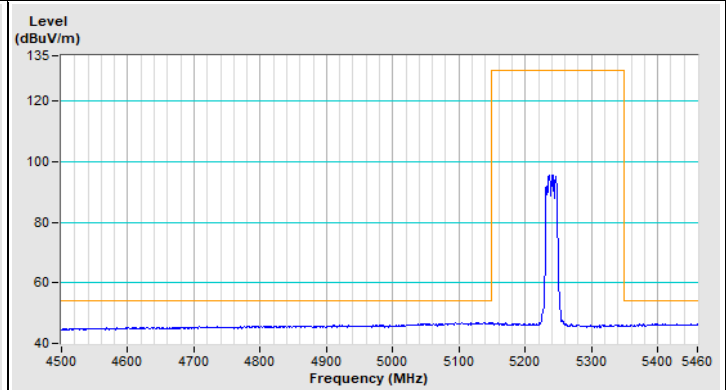
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

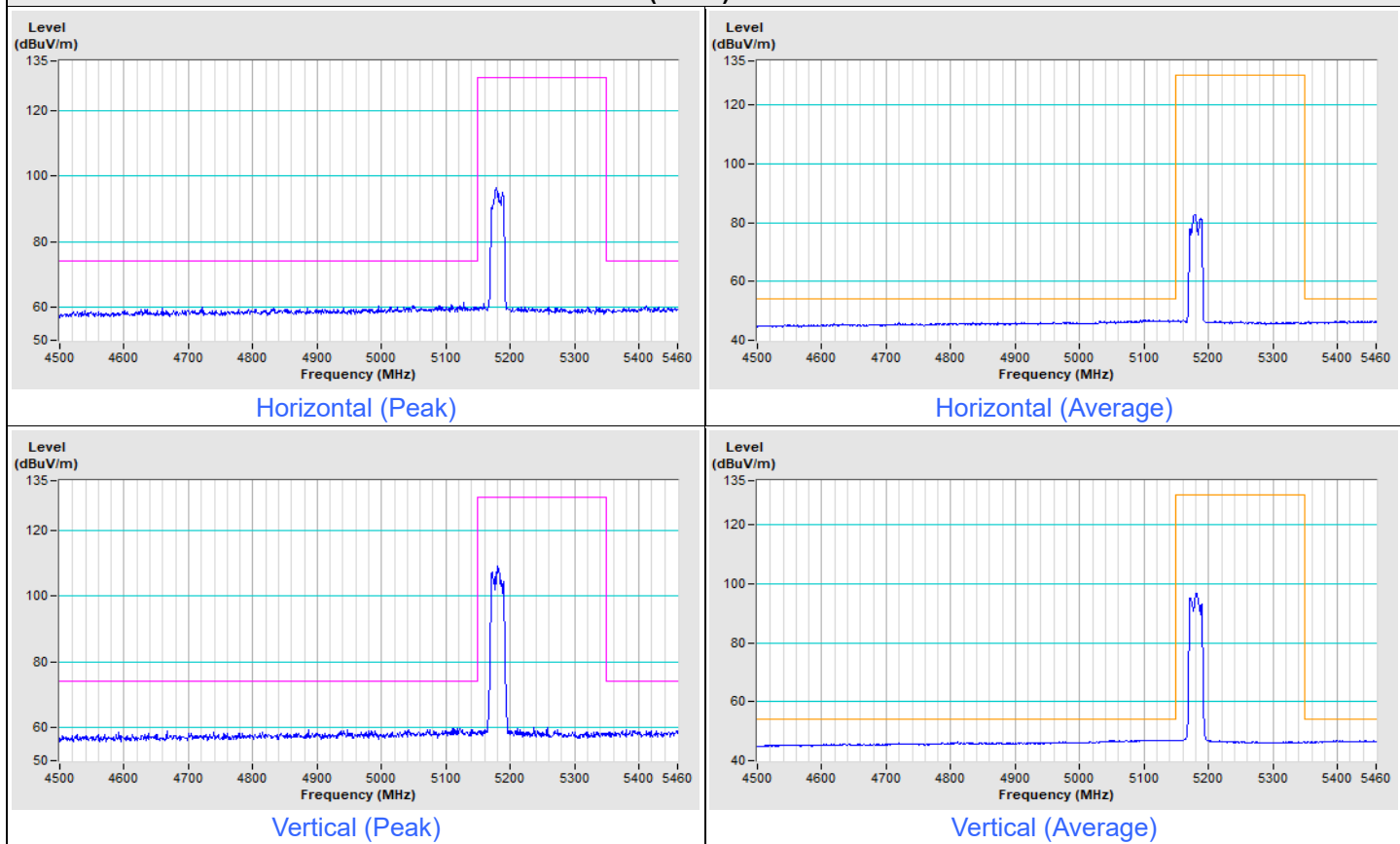


Vertical (Average)

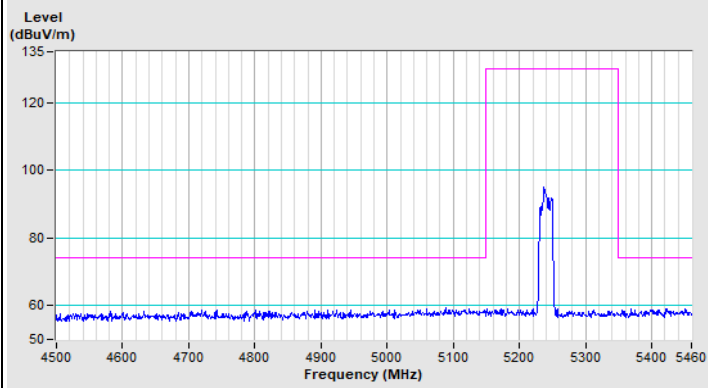


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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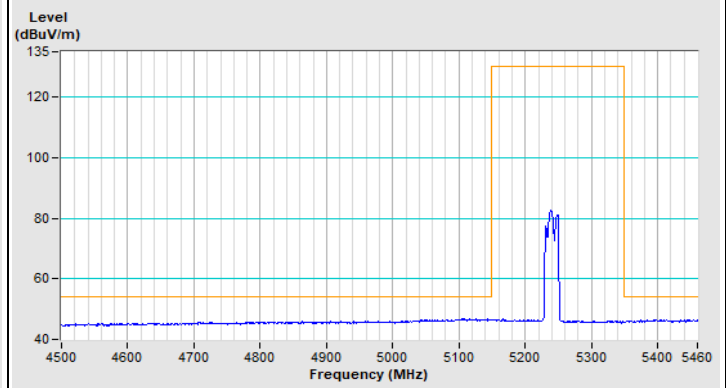
### 802.11ax (HE20) Channel 36



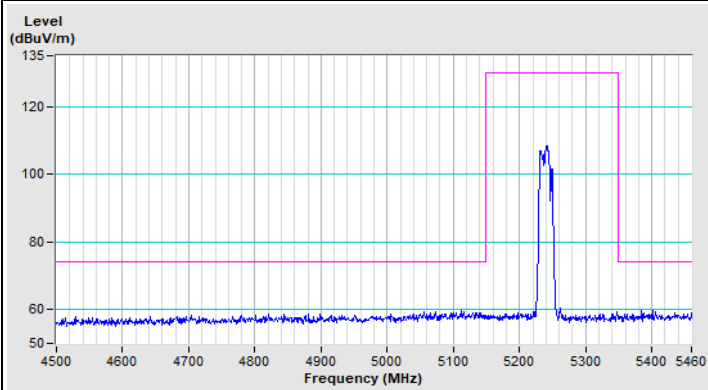
### 802.11ax (HE20) Channel 48



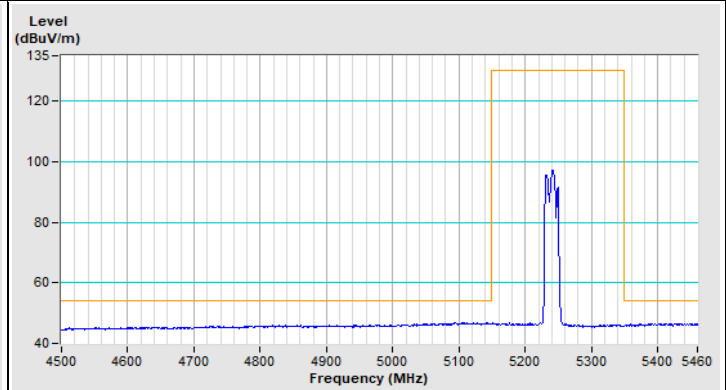
Horizontal (Peak)



Horizontal (Average)



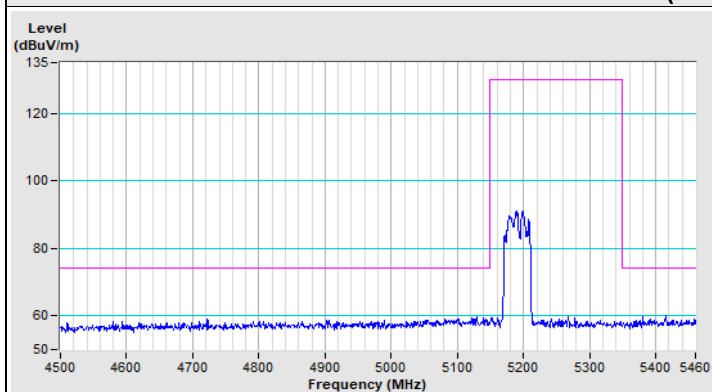
Vertical (Peak)



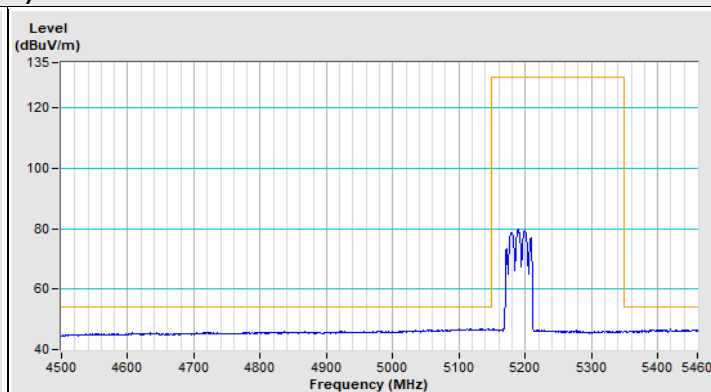
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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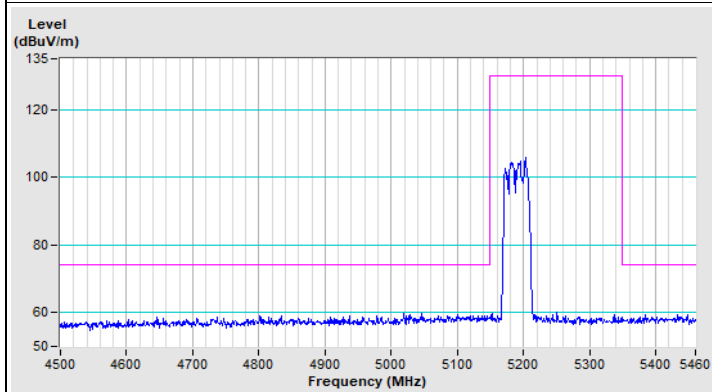
### 802.11ax (HE40) Channel 38



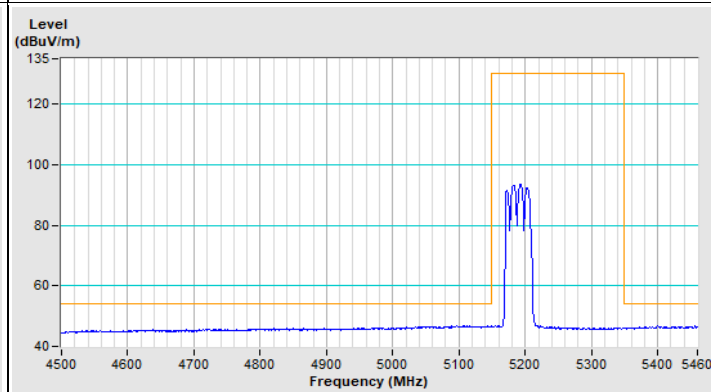
Horizontal (Peak)



Horizontal (Average)

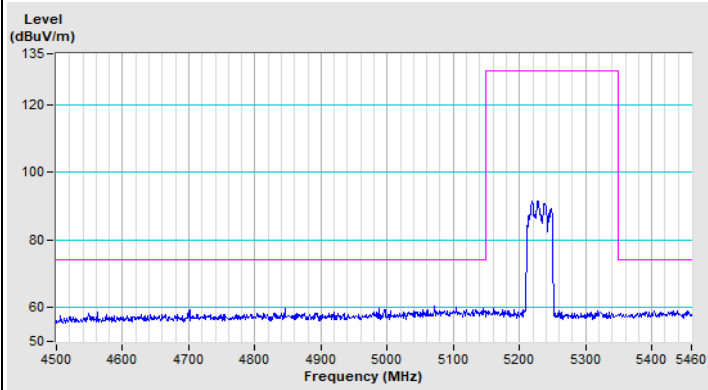


Vertical (Peak)

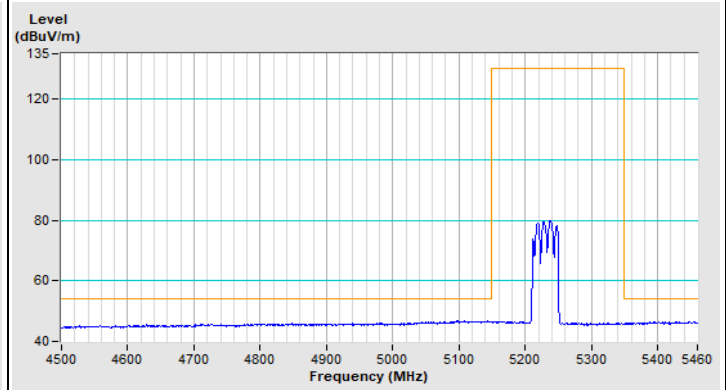


Vertical (Average)

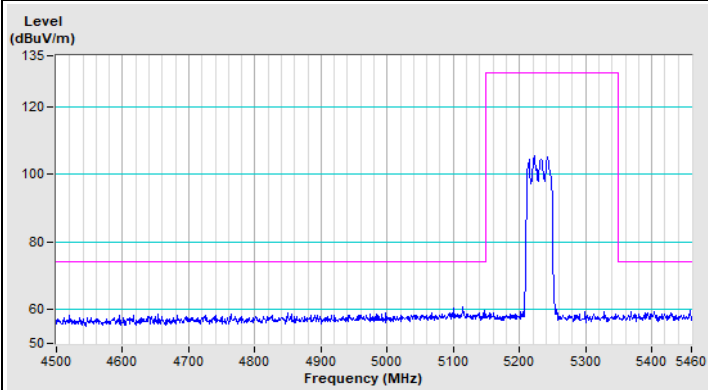
### 802.11ax (HE40) Channel 46



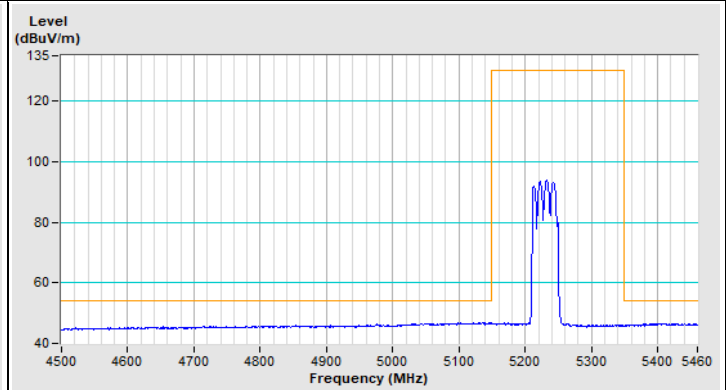
Horizontal (Peak)



Horizontal (Average)



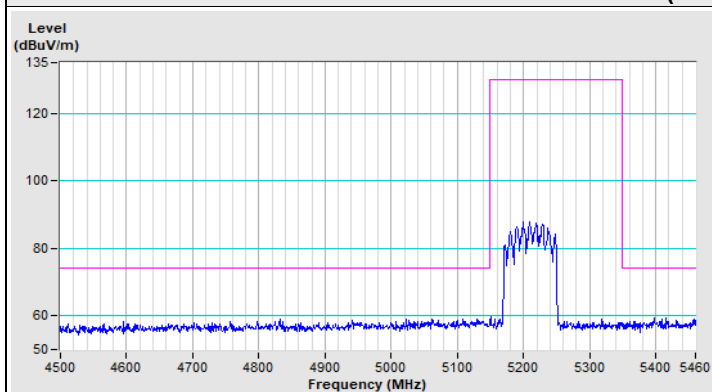
Vertical (Peak)



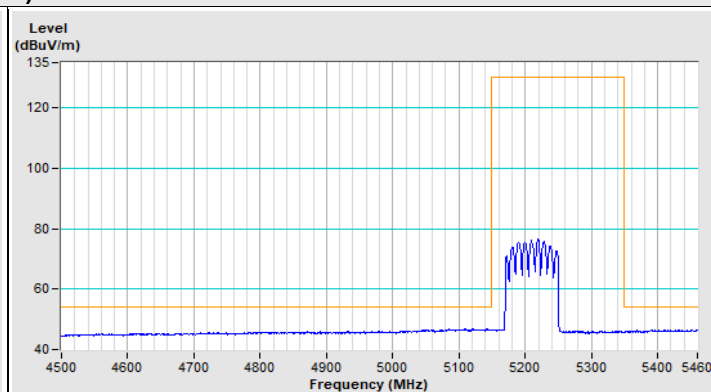
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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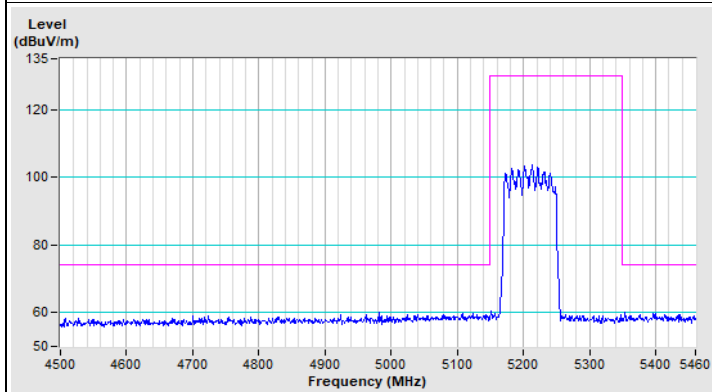
### 802.11ax (HE80) Channel 42



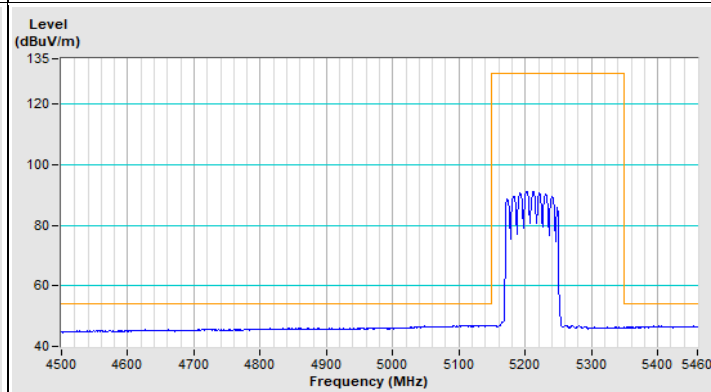
Horizontal (Peak)



Horizontal (Average)



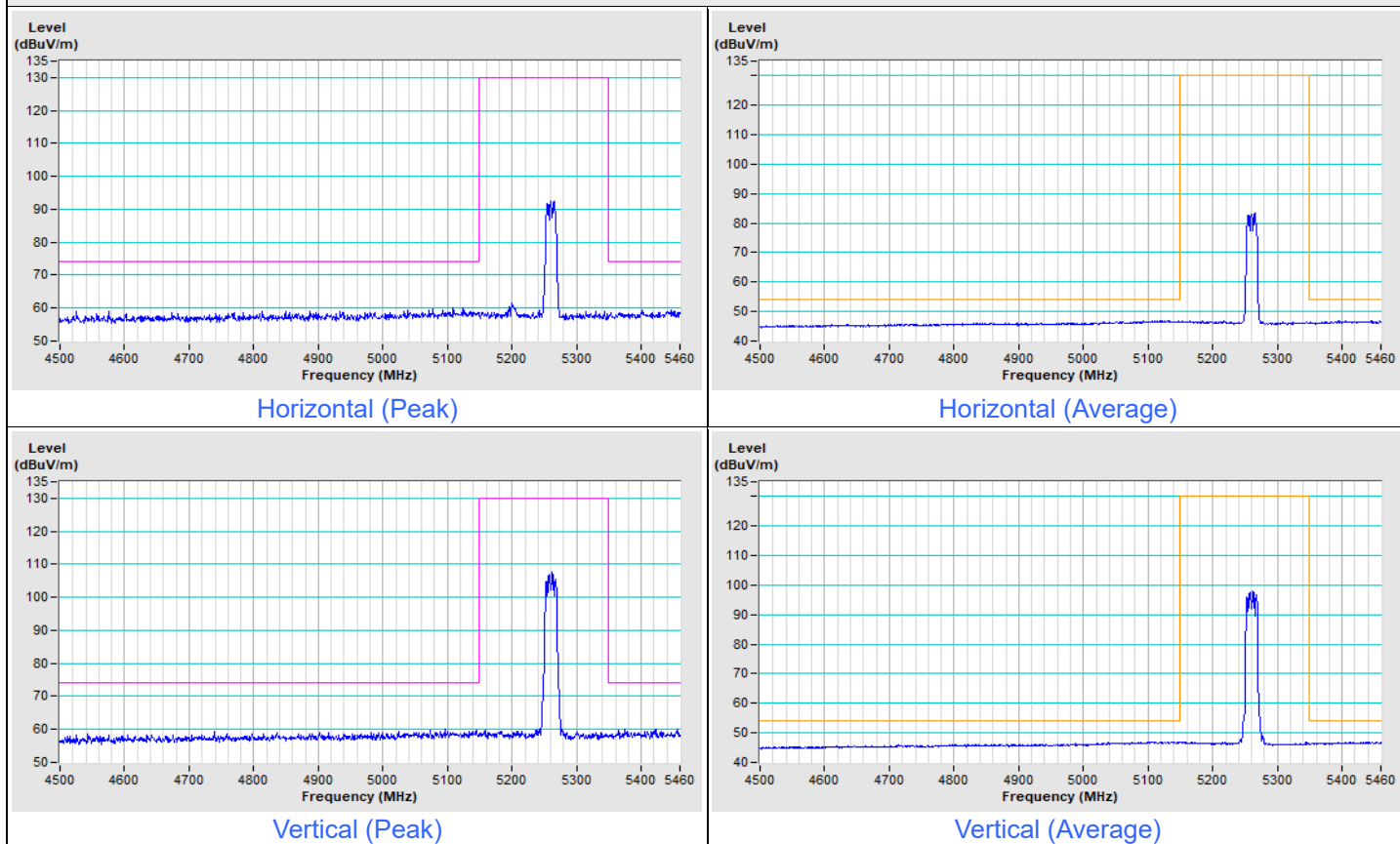
Vertical (Peak)



Vertical (Average)

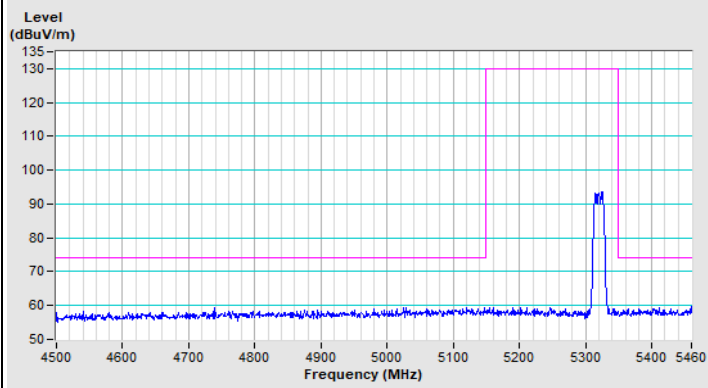
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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### 802.11a Channel 52

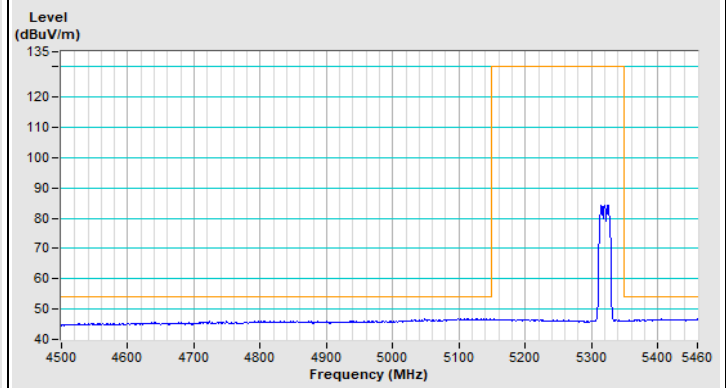




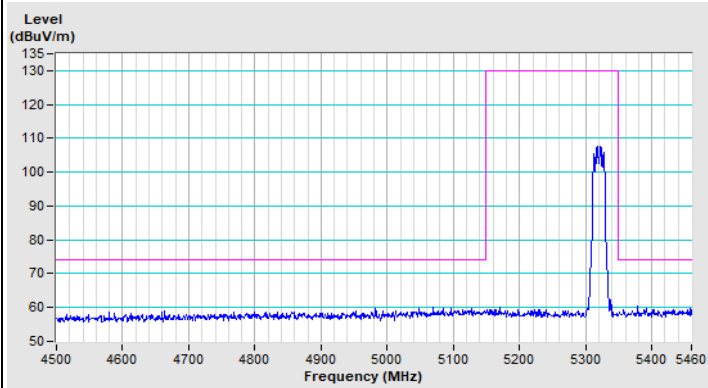
### 802.11a Channel 64



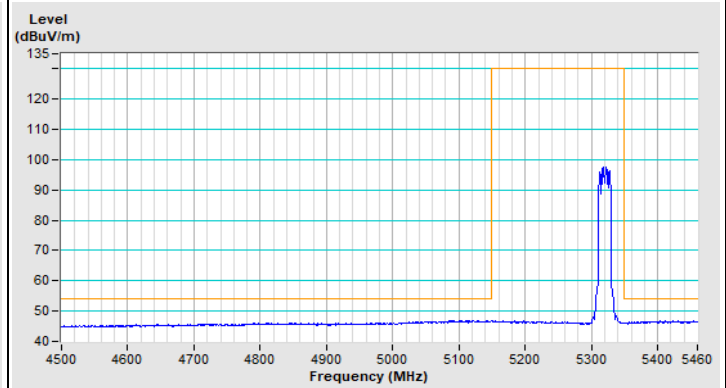
Horizontal (Peak)



Horizontal (Average)



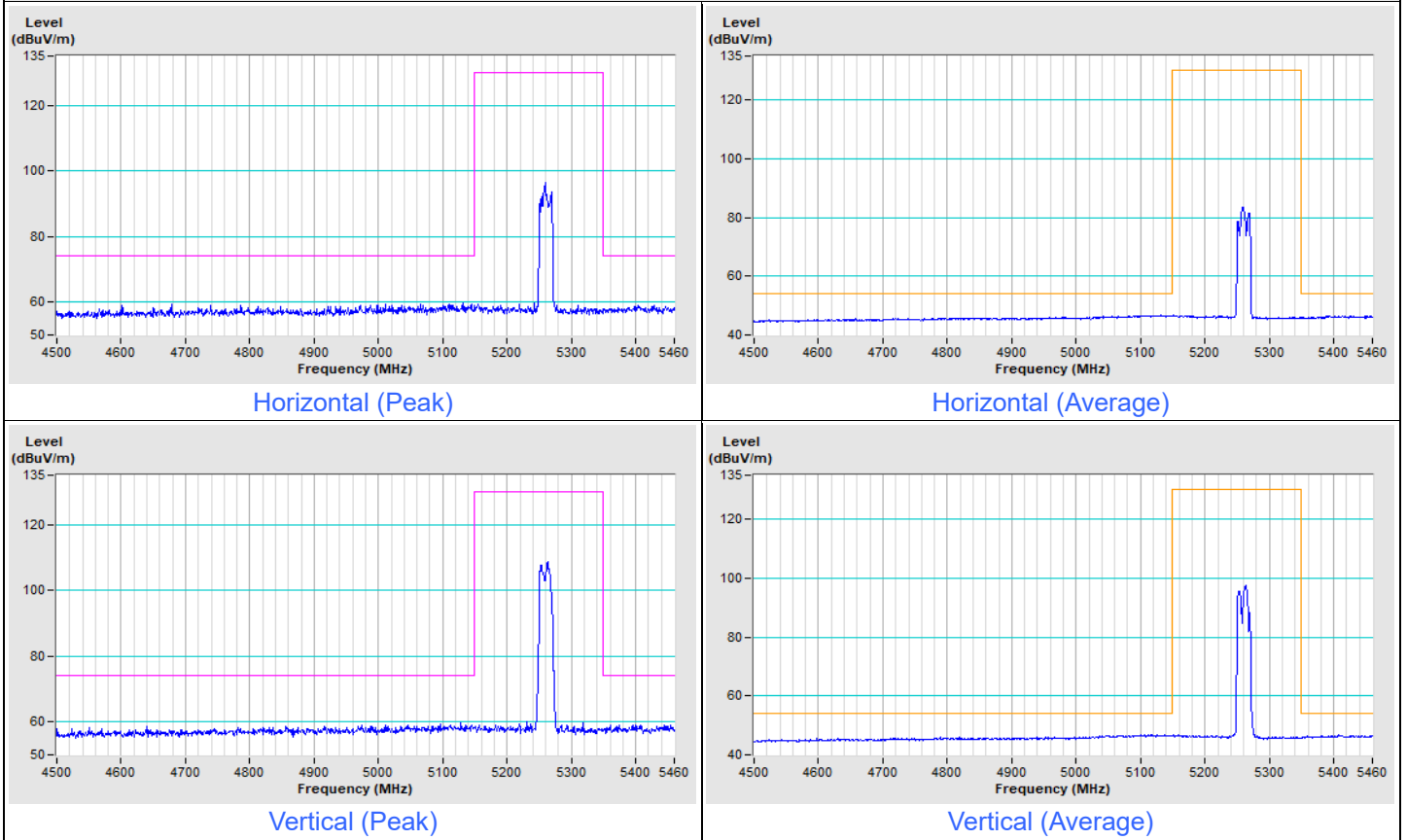
Vertical (Peak)



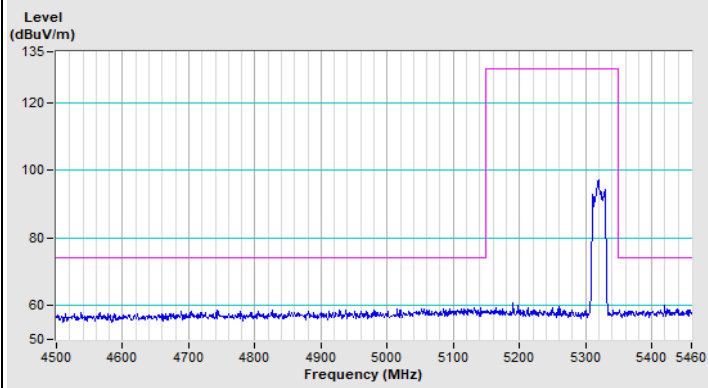
Vertical (Average)

Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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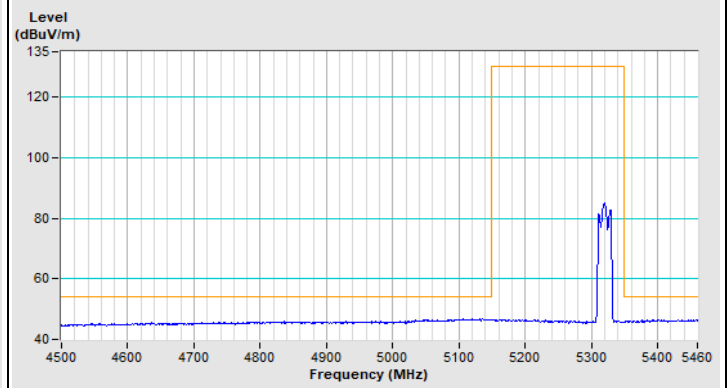
### 802.11ax (HE20) Channel 52



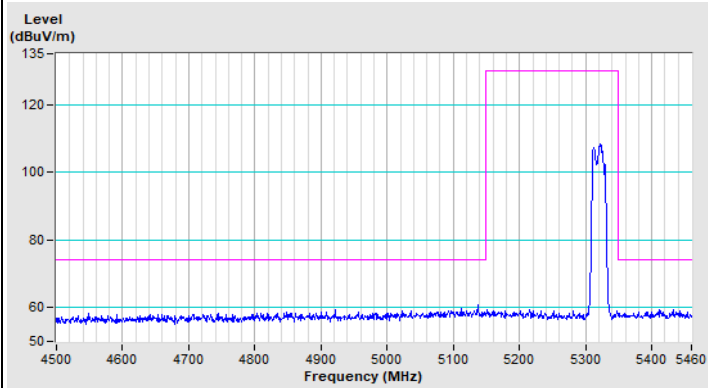
### 802.11ax (HE20) Channel 64



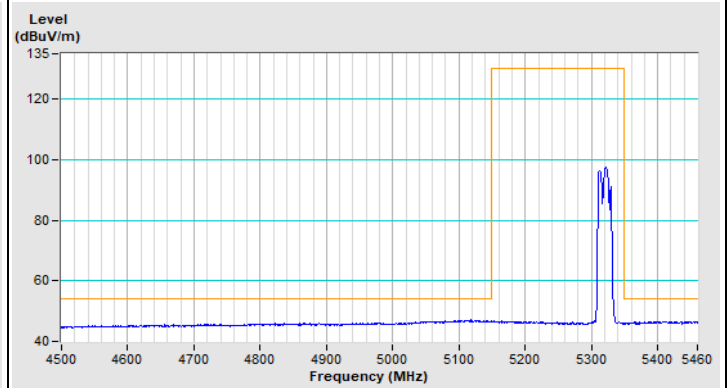
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

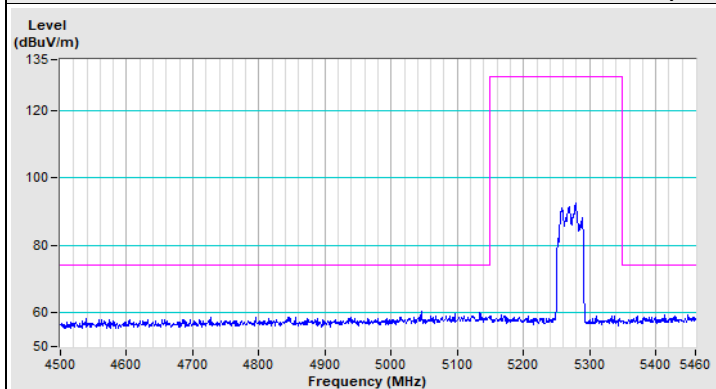


Vertical (Average)

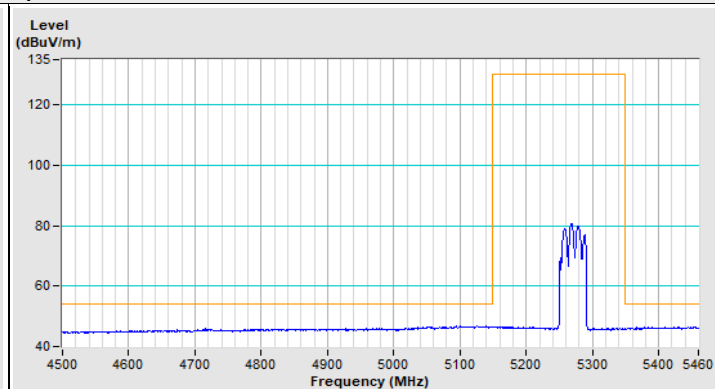


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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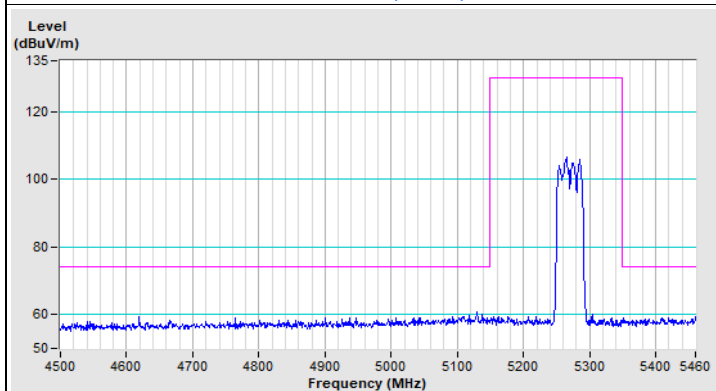
### 802.11ax (HE40) Channel 54



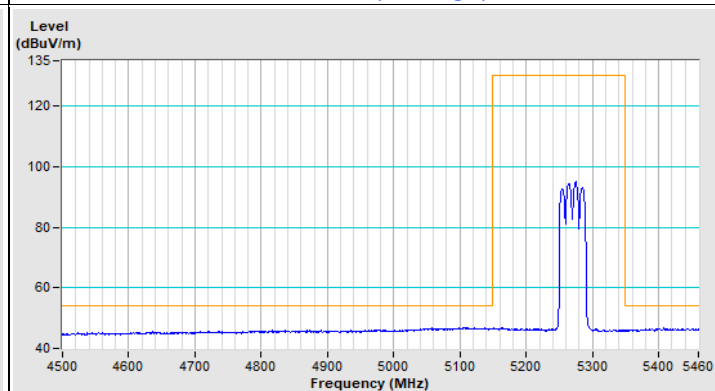
Horizontal (Peak)



Horizontal (Average)

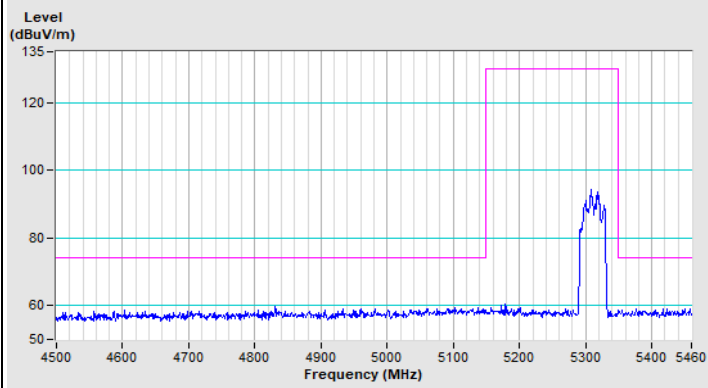


Vertical (Peak)

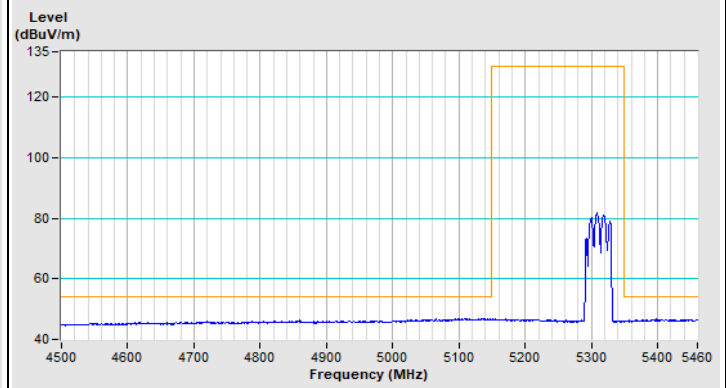


Vertical (Average)

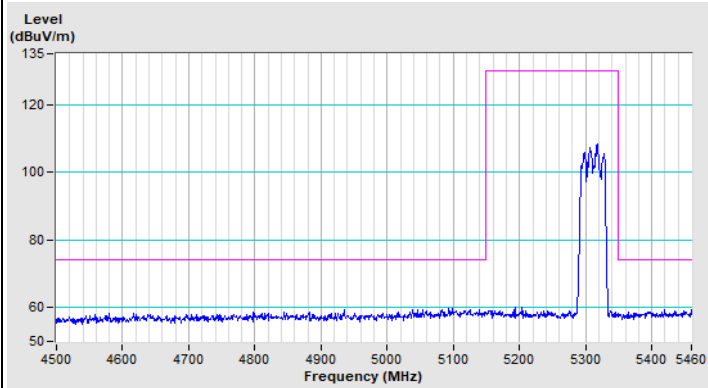
### 802.11ax (HE40) Channel 62



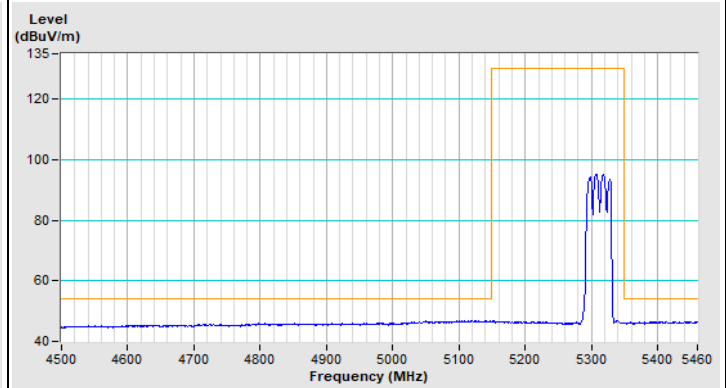
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

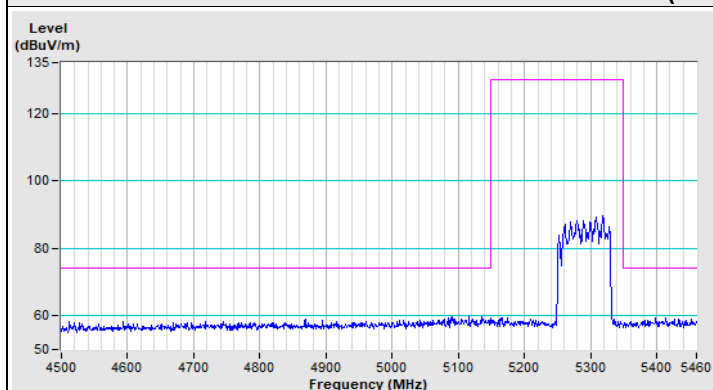


Vertical (Average)

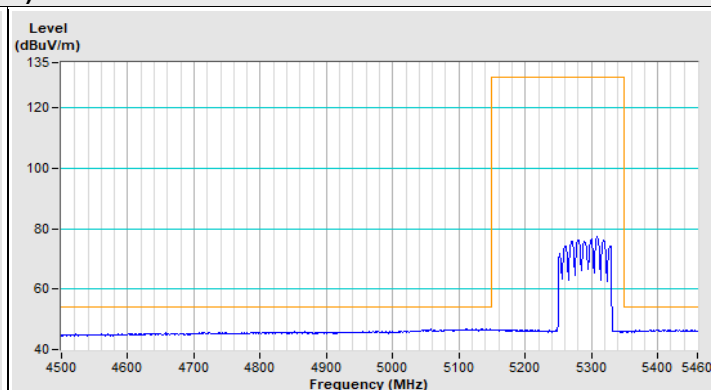


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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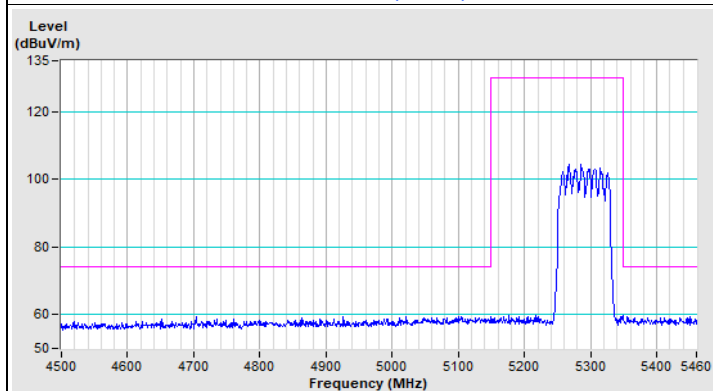
### 802.11ax (HE80) Channel 58



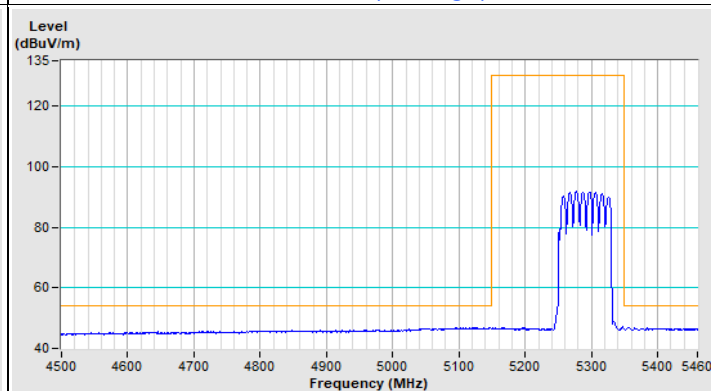
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)

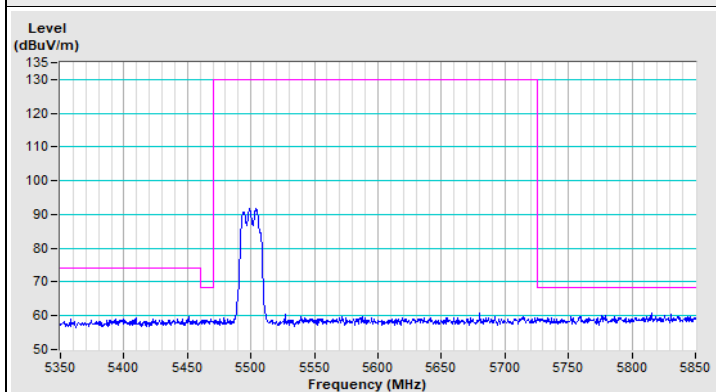


Vertical (Average)

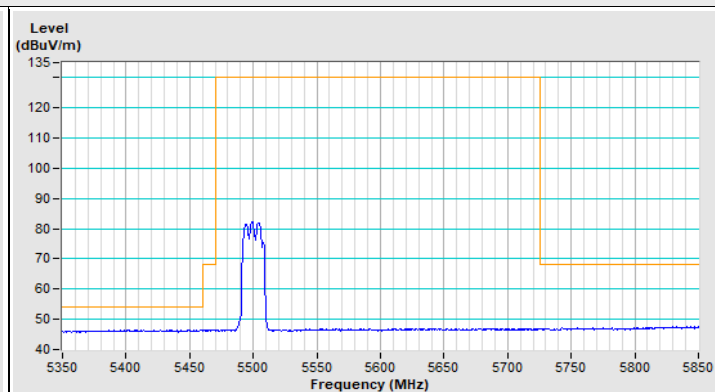


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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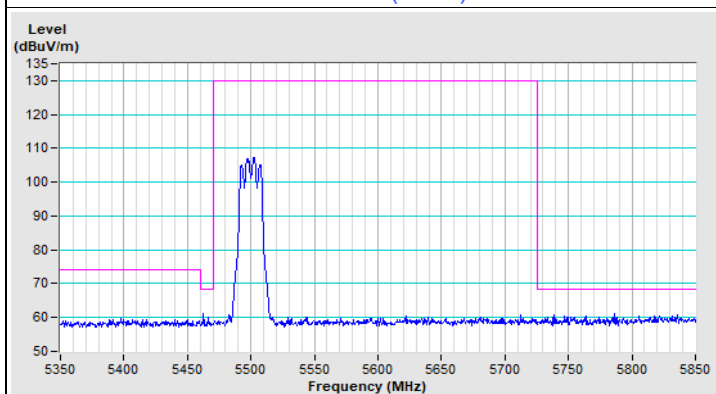
### 802.11a Channel 100



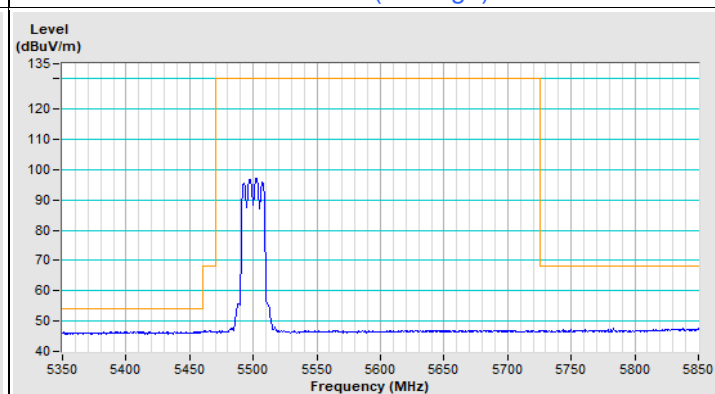
Horizontal (Peak)



Horizontal (Average)

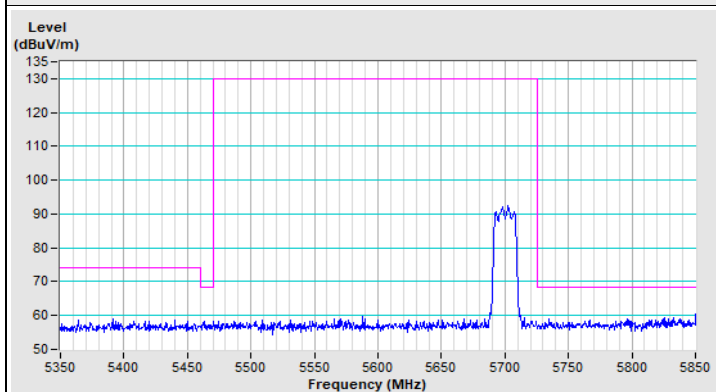


Vertical (Peak)

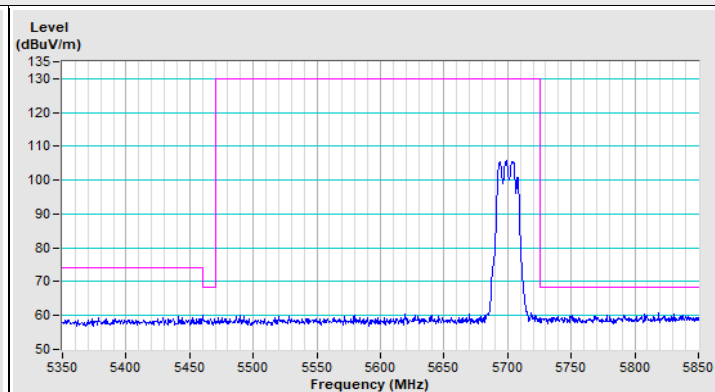


Vertical (Average)

### 802.11a Channel 140



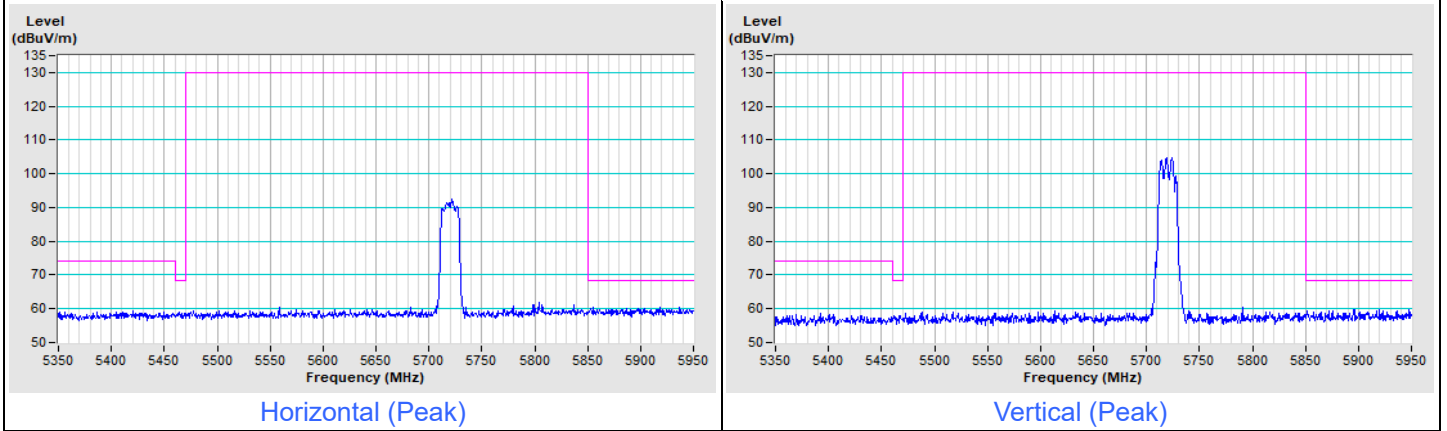
Horizontal (Peak)



Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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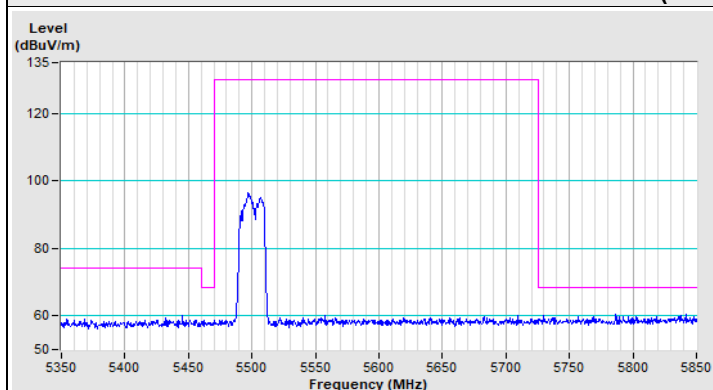
### 802.11a Channel 144



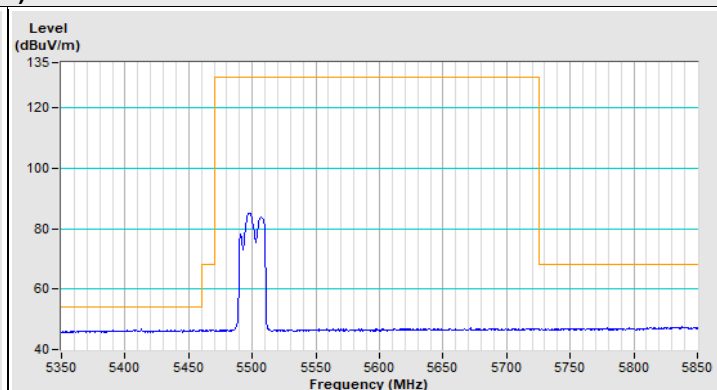


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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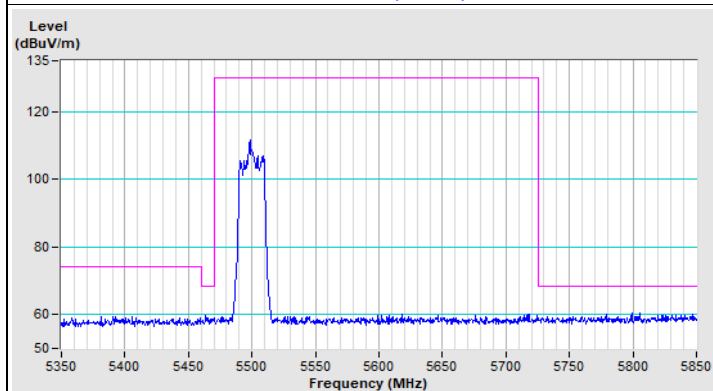
### 802.11ax (HE20) Channel 100



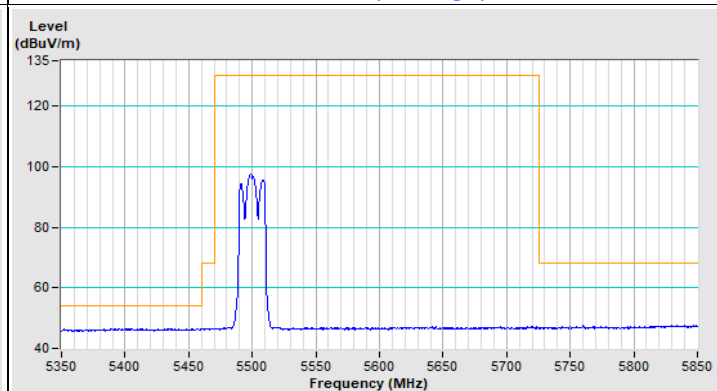
Horizontal (Peak)



Horizontal (Average)

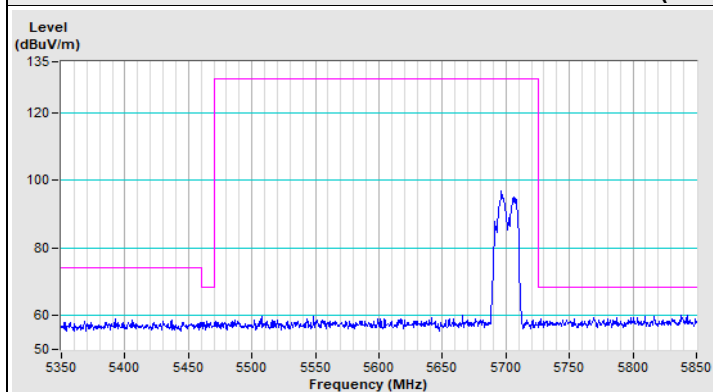


Vertical (Peak)

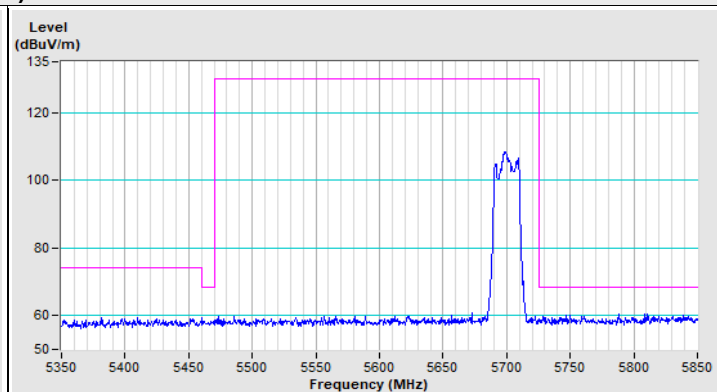


Vertical (Average)

### 802.11ax (HE20) Channel 140



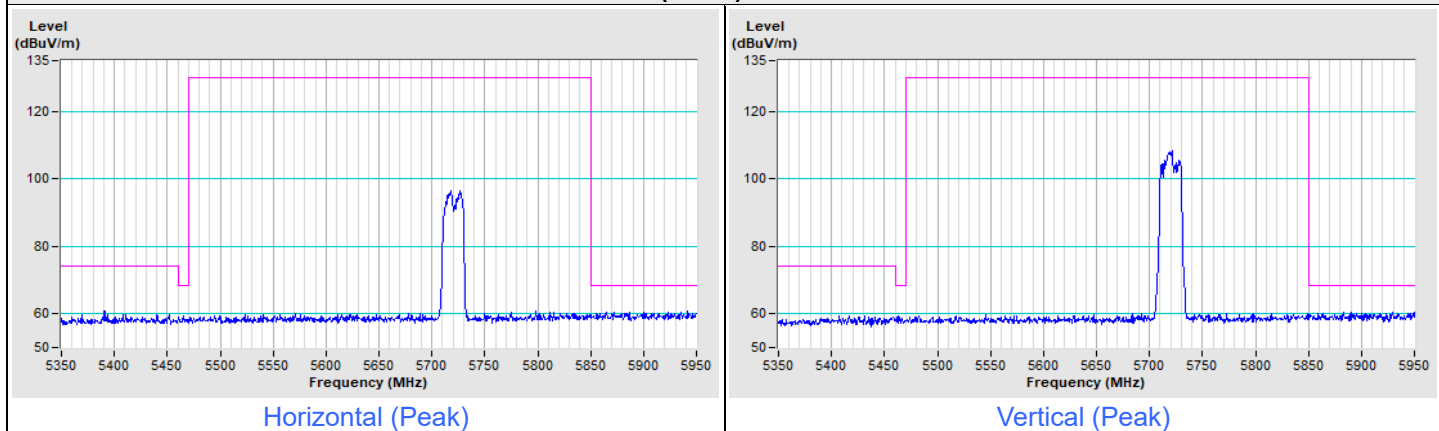
Horizontal (Peak)



Vertical (Peak)

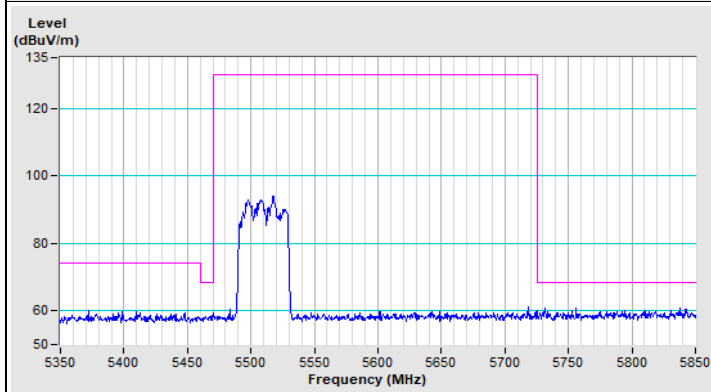
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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### 802.11ax (HE20) Channel 144

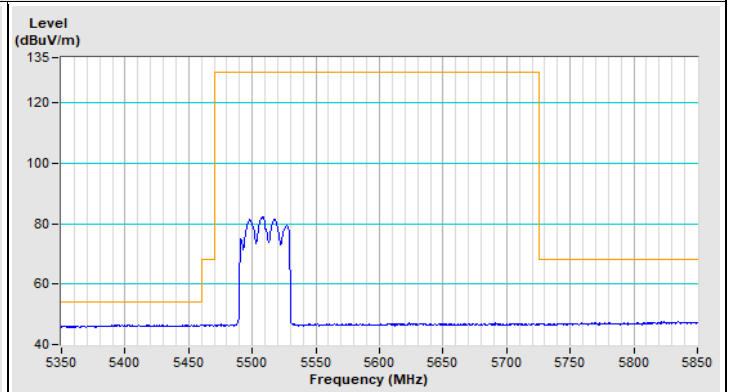


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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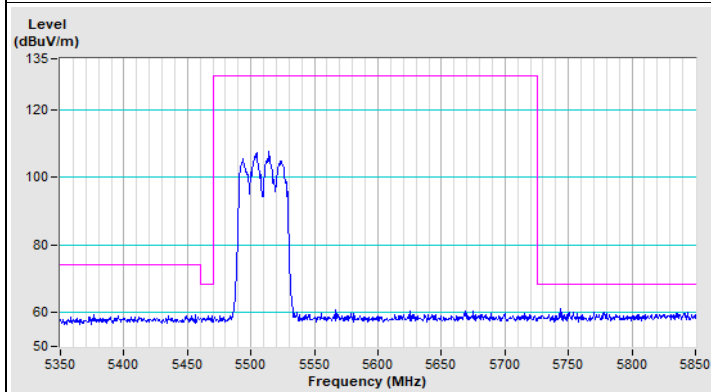
### 802.11ax (HE40) Channel 102



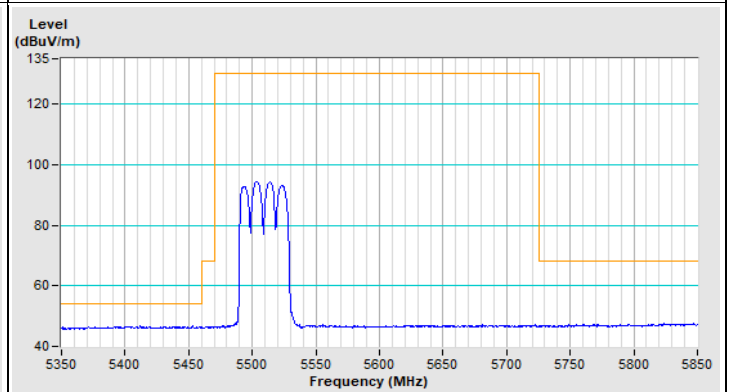
Horizontal (Peak)



Horizontal (Average)

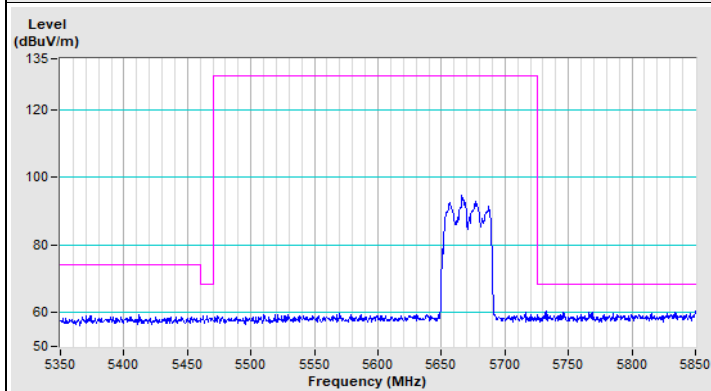


Vertical (Peak)

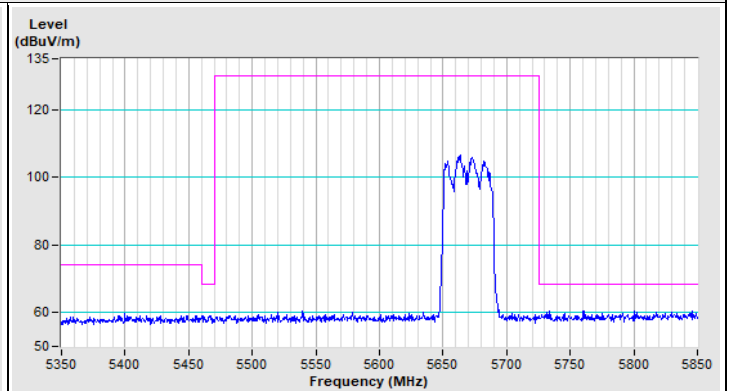


Vertical (Average)

### 802.11ax (HE40) Channel 134



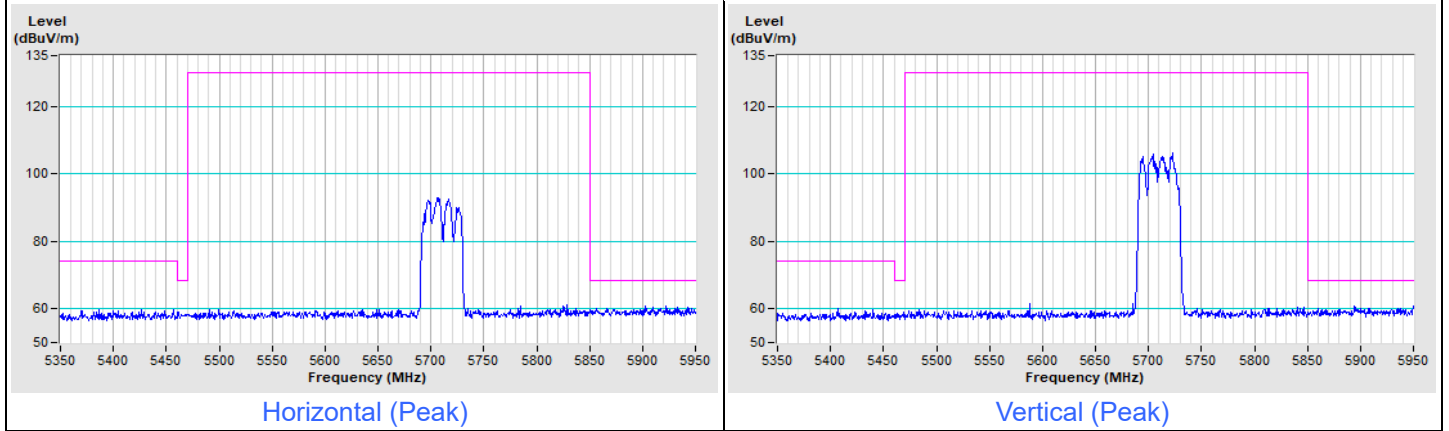
Horizontal (Peak)



Vertical (Peak)

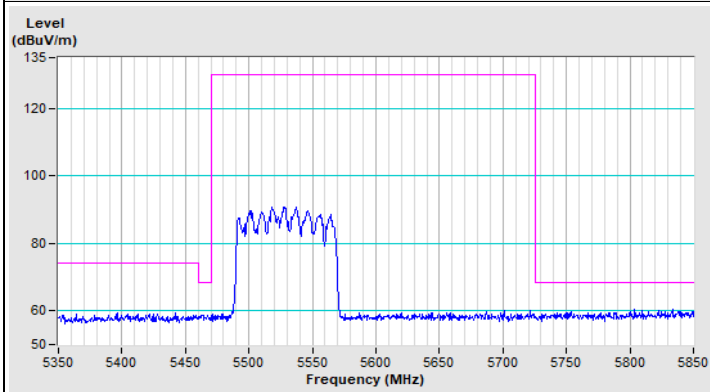
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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### 802.11ax (HE40) Channel 142

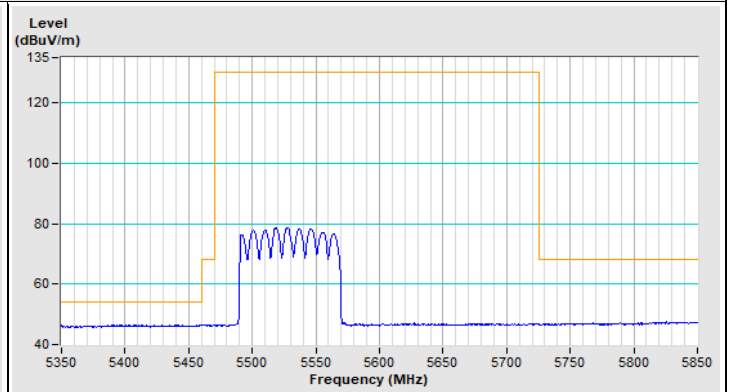


Frequency Range	5.35 GHz ~ 5.85 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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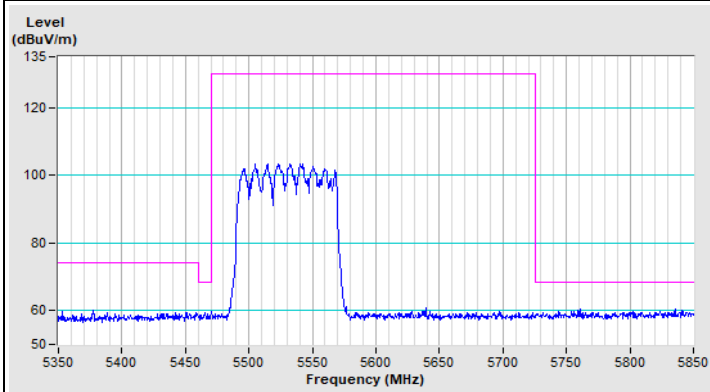
### 802.11ax (HE80) Channel 106



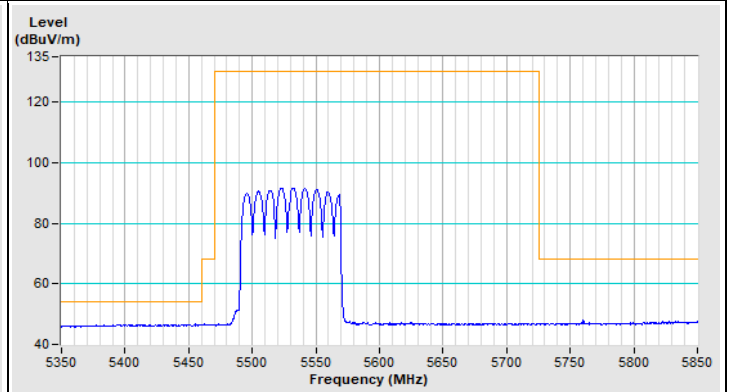
Horizontal (Peak)



Horizontal (Average)

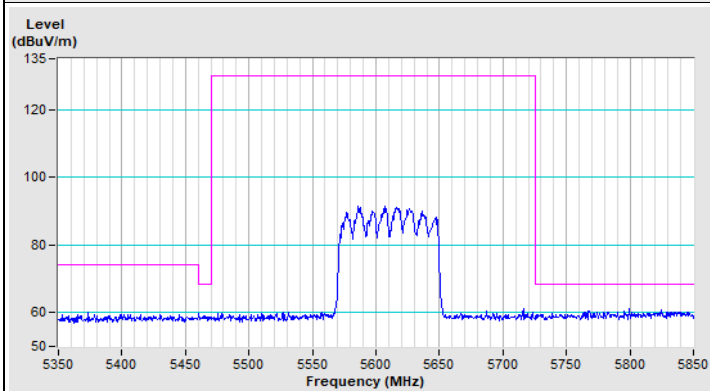


Vertical (Peak)

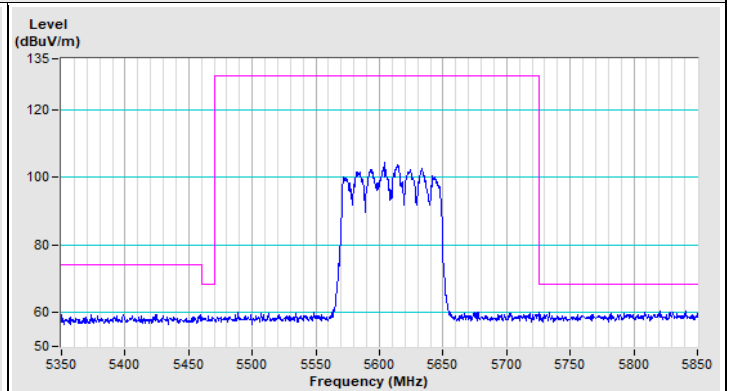


Vertical (Average)

### 802.11ax (HE80) Channel 122



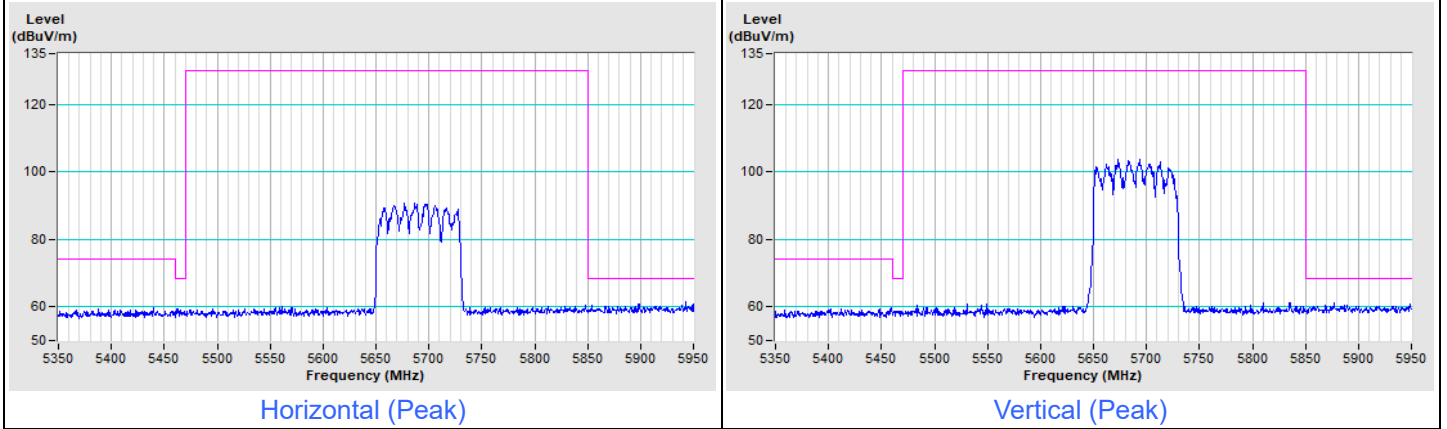
Horizontal (Peak)



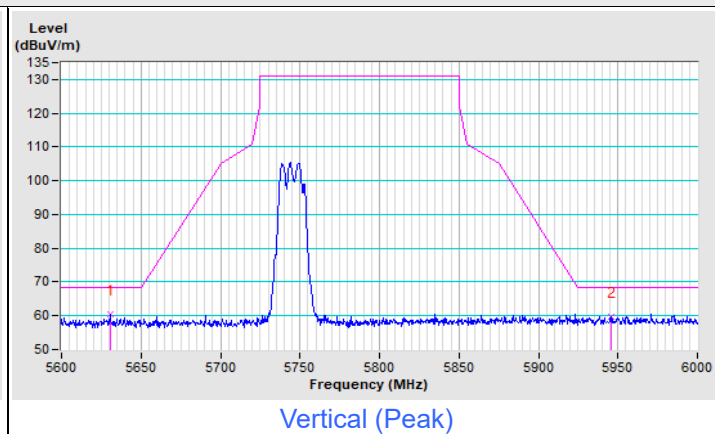
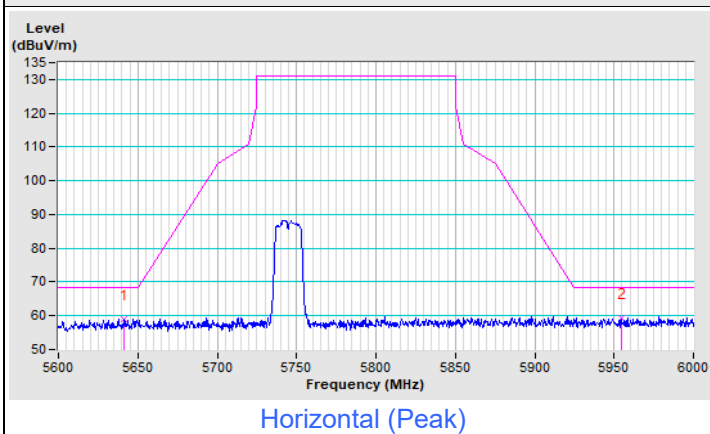
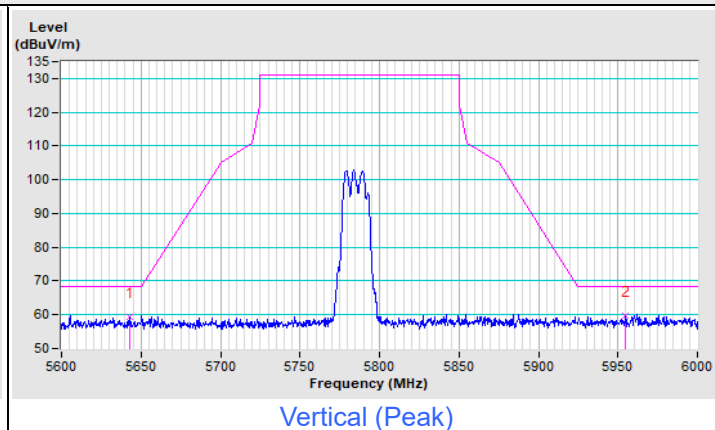
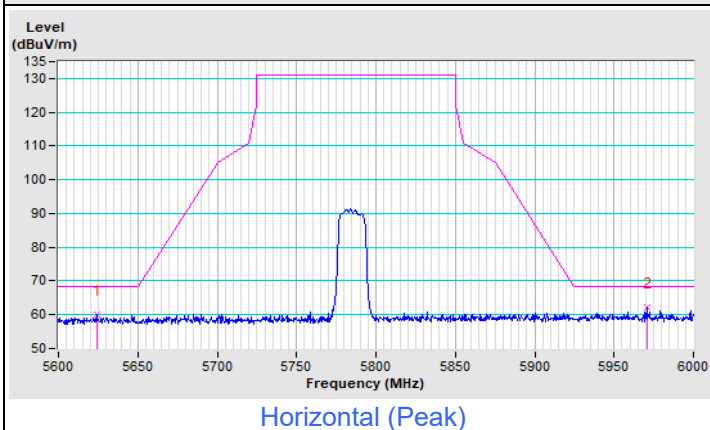
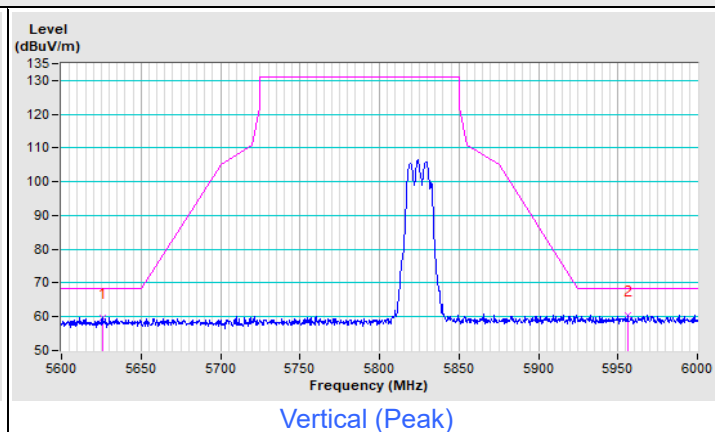
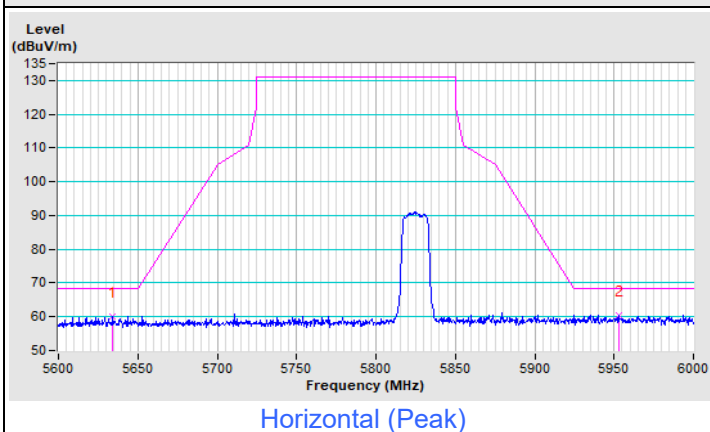
Vertical (Peak)

Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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### 802.11ax (HE80) Channel 138



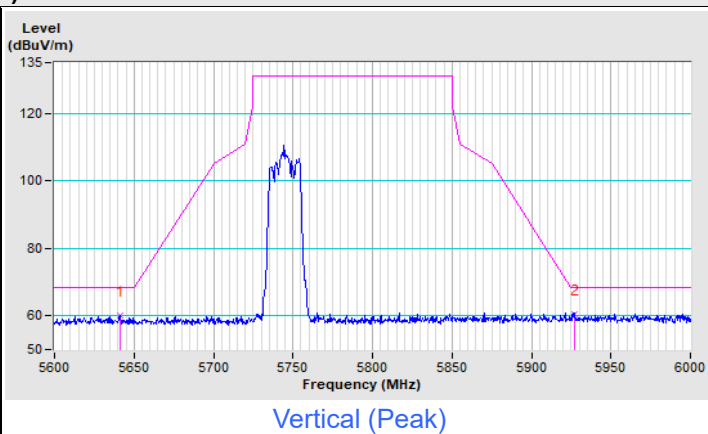
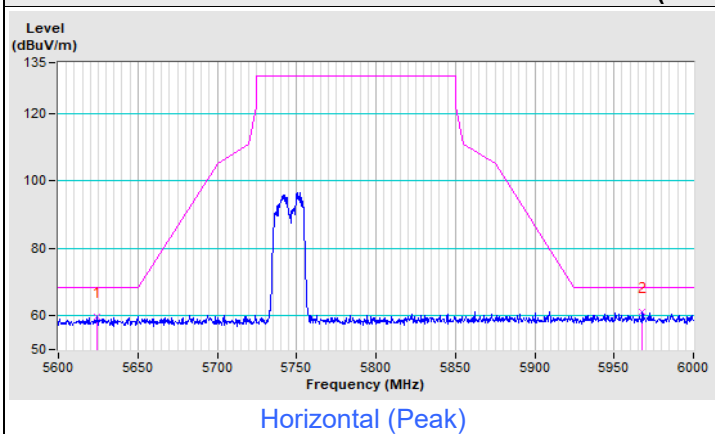
Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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**802.11a Channel 149****802.11a Channel 157****802.11a Channel 165**

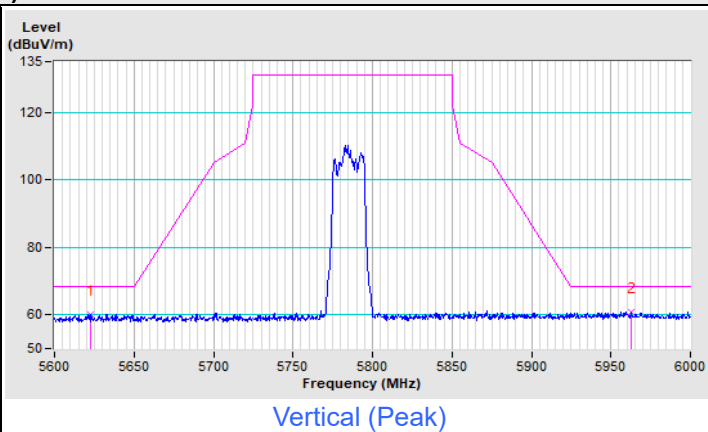
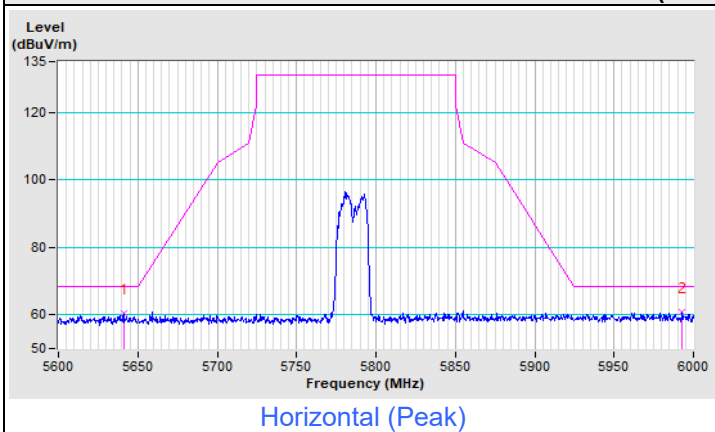


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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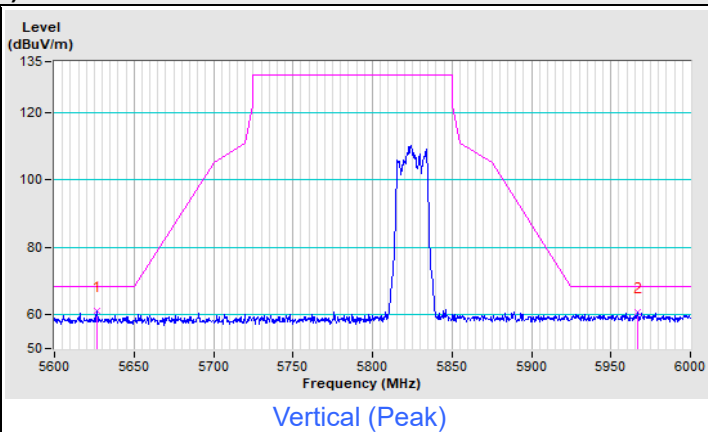
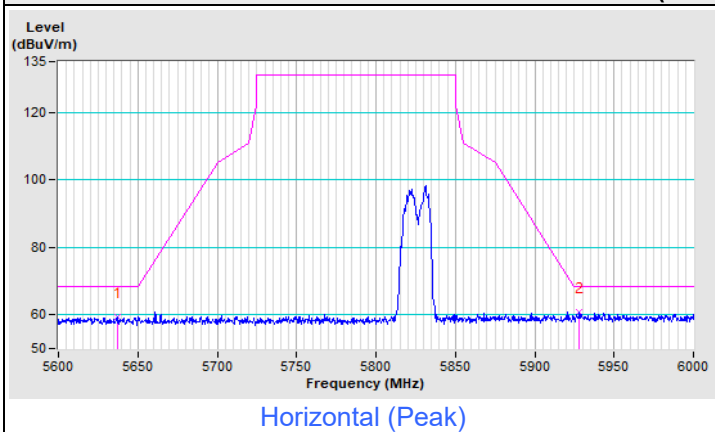
### 802.11ax (HE20) Channel 149



### 802.11ax (HE20) Channel 157



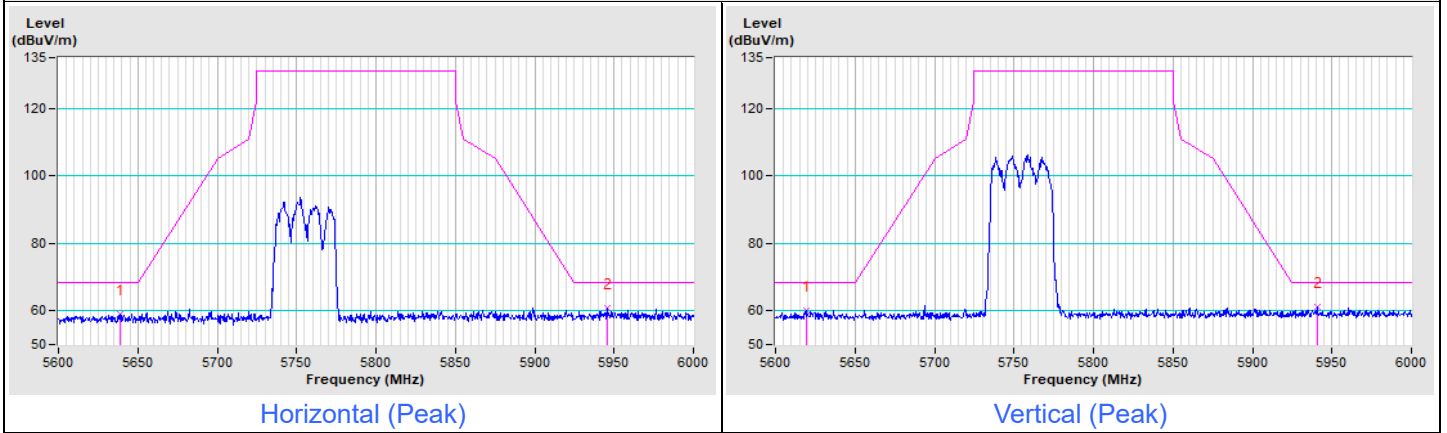
### 802.11ax (HE20) Channel 165



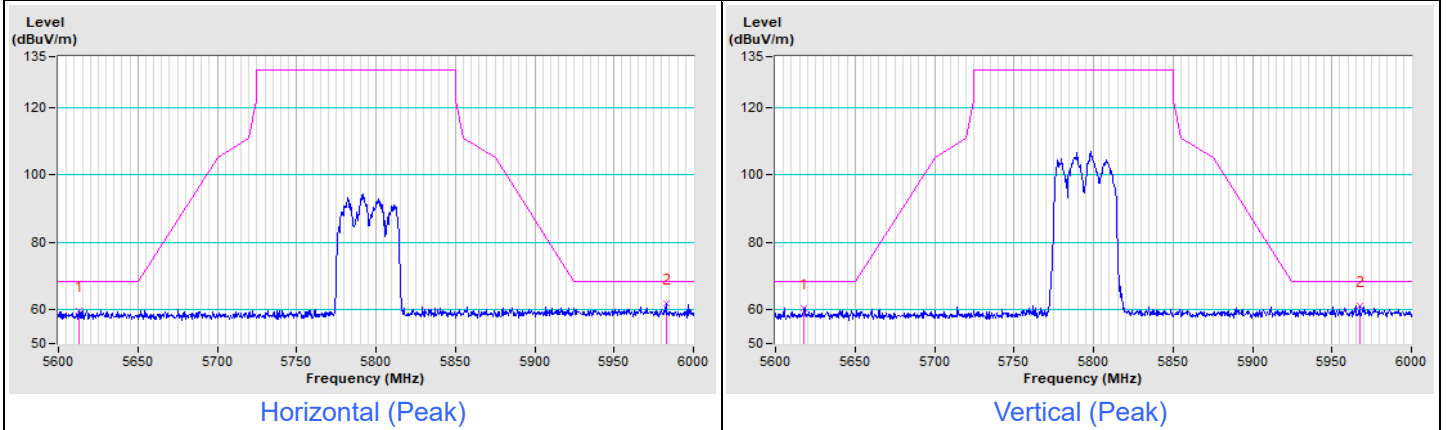


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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### 802.11ax (HE40) Channel 151

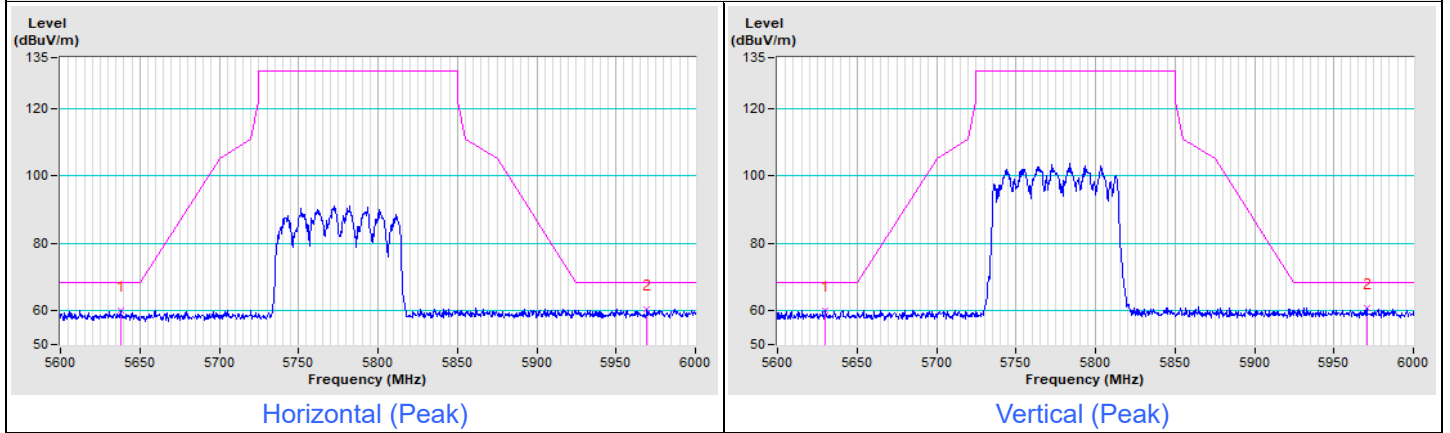


### 802.11ax (HE40) Channel 159



Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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### 802.11ax (HE80) Channel 155



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

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