

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBEQF-WTW-P22100398-1

FCC ID: BEJNT-14T90R

Product: Notebook Computer

Brand: LG

Model No.: 14T90R, 14TD90R, 14TB90R, 14TG90R, 14T90R*

(* can be 0 to 9 or A to Z or blank denoting buyer request)

Received Date: 2022/10/19

Test Date: 2022/10/21 ~ 2022/11/8

Issued Date: 2022/12/08

Applicant: LG Electronics USA

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 788550 / TW0003

Designation Number (1):

FCC Registration / 281270 / TW0032

Designation Number (2):

Approved by: _____

Jeremy Lin

Date: _____

2022/12/08

Jeremy Lin / Project Engineer

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Prepared by : Polly Chien / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBEQF-WTW-P22100398-1	Original release.	2022/12/08

1 Certificate

Product: Notebook Computer

Brand: LG

Test Model: 14T90R, 14TD90R, 14TB90R , 14TG90R, 14T90R*
(* can be 0 to 9 or A to Z or blank denoting buyer request)

Sample Status: Engineering sample

Applicant: LG Electronics USA

Test Date: 2022/10/21 ~ 2022/11/8

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	Pass	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1/2/3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1/2/3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -9.75 dB at 0.16190 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -1.3 dB at 30.00 MHz
15.407(b)(1/2/3/4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.5 dB at 5725.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is I-PEX not a standard connector.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.79 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.00 dB
	30MHz ~ 200MHz	2.91 dB
	200MHz ~ 1000MHz	2.93 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.93 dB
	18 GHz ~ 40 GHz	1.76 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	Notebook Computer
Brand	LG
Test Model	14T90R, 14TD90R, 14TB90R , 14TG90R, 14T90R* (* can be 0 to 9 or A to Z or blank denoting buyer request)
Status of EUT	Engineering sample
Power Supply Rating	7.76 Vdc (Battery) 5 Vdc / 15Vdc / 9Vdc / 20Vdc (Adapter)
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 300Mbps 802.11ac: up to 1733.3Mbps 802.11ax: up to 2401.09Mbps
Operating Frequency	5180 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
Number of Channel	5180 ~ 5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 8 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 4 802.11ac (VHT80), 802.11ax (HE80): 2 802.11ac (VHT160), 802.11ax (HE160): 1 5500 ~ 5720MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 12 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 6 802.11ac (VHT80), 802.11ax (HE80): 3 802.11ac (VHT160), 802.11ax (HE160): 1 5745 ~ 5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 5 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1
Output Power	5.18 GHz ~ 5.25 GHz : 27.676 mW (14.42 dBm) 5.26 GHz ~ 5.32 GHz : 27.672 mW (14.42 dBm) 5.5 GHz ~ 5.72 GHz : 27.831 mW (14.45 dBm) 5.745 GHz ~ 5.825 GHz : 27.608 mW (14.41 dBm)
EUT Category	Client device

Note:

1. The following models are provided to this EUT. The model 14T90R was chosen for final test.

Brand	Model No.	Difference
LG	14T90R	For marketing purpose
	14TD90R	
	14TB90R	
	14TG90R	
	14T90R* (* can be 0 to 9 or A to Z or blank denoting buyer request)	

2. The EUT uses following accessories.

Product	Brand	Model	Description
Battery	LG	LBZ722DM	Rating: 7.76Vdc, 72Wh, Typ 9279mAh
Adapter	LG	LP65WFC20P-NJ	I/P: 100-240Vac, 50-60Hz, 1.6A O/P: (PDO) 5.0Vdc, 3.0A, 15.0W or 9.0 Vdc, 3.0 A, 27.0W or 15.0 Vdc, 3.0 A, 45.0W or 20.0Vdc, 3.25A, 65.0 W (PPS) 5.0Vdc-20.0Vdc, 3.25A, Max 65.0W
Type-C to Type-C cable	Luxshare	L1LUC020-CS-H	2m/20V 5A/USB2.0/Black
Module	Intel	AX211D2W	-

3. The EUT support OFDMA and Partial RU mode, therefore partial RU combination were investigated and the worst case scenario was identified. (The worst case data were presented in section 3.4)

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

NB:

Ant. Type	Brand	Ant.	Model	Antenna Peak Gain (dBi)					Connector
				2400-2483.5 MHz	5150-5250 MHz	5250-5350 MHz	5470-5725 MHz	5725-5850 MHz	
PIFA	CHILISIN	Main	DQ600111501 (BTEA00111525GC1A02)	2.45	2.14	0.94	1.80	1.72	I-PEX
		Aux.	DQ600111501 (BTEA00111525GC1A02)	1.39	2.12	2.64	2.40	0.90	
	Pulse	Main	DQ602118000 (TZ21180)	2.97	2.18	1.01	2.19	2.29	I-PEX
		Aux.	DQ602118000 (TZ21180)	2.96	2.21	3.69	3.34	1.29	

Tablet:

Ant. Type	Brand	Ant.	Model	Antenna Peak Gain (dBi)					Connector
				2400-2483.5 MHz	5150-5250 MHz	5250-5350 MHz	5470-5725 MHz	5725-5850 MHz	
PIFA	CHILISIN	Main	DQ600111501 (BTEA00111525GC1A02)	-0.50	1.37	0.75	1.30	-0.42	I-PEX
		Aux.	DQ600111501 (BTEA00111525GC1A02)	1.48	1.02	0.86	1.40	1.29	
	Pulse	Main	DQ602118000 (TZ21180)	0.03	1.65	1.05	1.36	0.58	I-PEX
		Aux.	DQ602118000 (TZ21180)	1.91	1.25	0.98	1.91	1.57	

* The worst case (NB mode) with the largest antenna gain was chosen for final test.

* 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	1TX	1RX
802.11n (HT20)	2TX	1RX
802.11n (HT40)	2TX	1RX
802.11ac (VHT20)	2TX	1RX
802.11ac (VHT40)	2TX	1RX
802.11ac (VHT80)	2TX	1RX
802.11ac (VHT160)	2TX	1RX
802.11ax (HE20)	2TX	1RX
802.11ax (HE40)	2TX	1RX
802.11ax (HE80)	2TX	1RX
802.11ax (HE160)	2TX	1RX

Note: The bandwidth and modulation are similar for HT20/HT40 on 802.11n mode and VHT20/VHT40 on 802.11ac mode and HE20/HE40 on 802.11ax mode. The bandwidth and modulation are similar for VHT80/VHT160 on 802.11ac mode and HE80/HE160 on 802.11ax mode. Therefore the investigated worst case is the 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

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

Channel	Frequency
50	5250 MHz

FOR 5500 ~ 5720 MHz

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

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

Channel	Frequency
114	5570MHz

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:	The EUT's antenna (PIFA) had been pre-tested on the positioned of NB mode and each 3 axis (X-axis/ Y-axis/ Z-axis) of Tablet Mode. Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	Worst Condition: The worst case was found when positioned on NB mode.

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

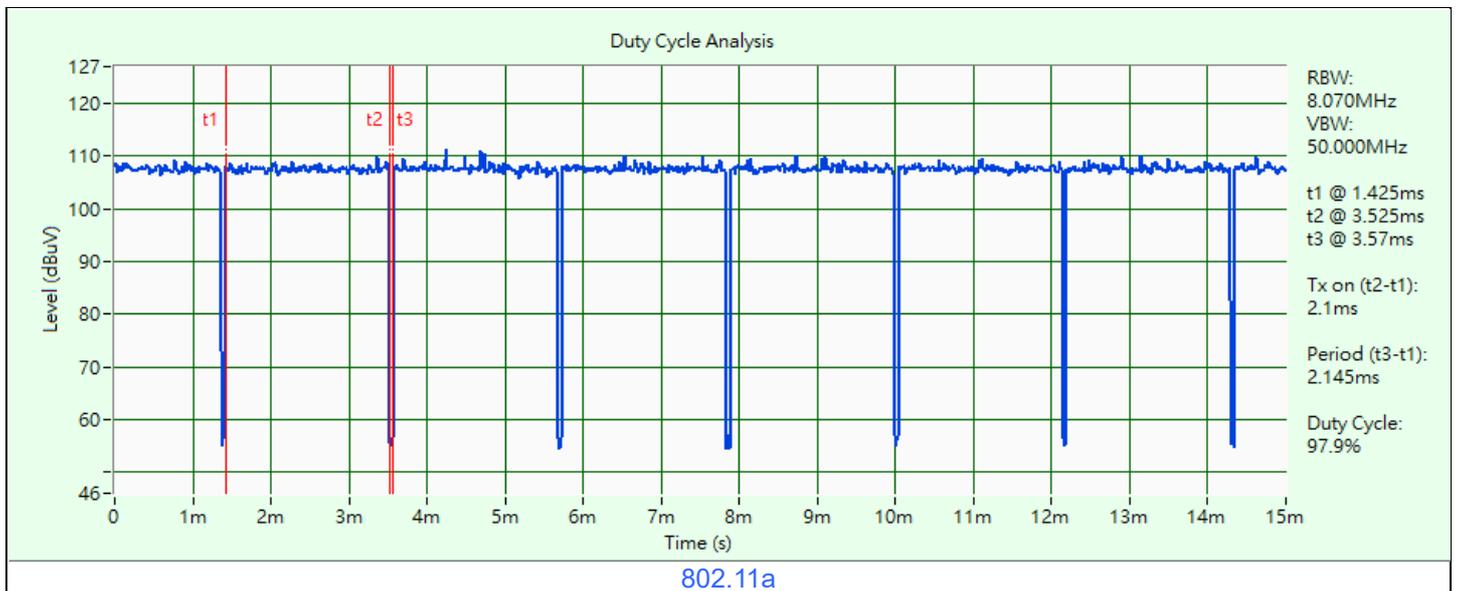
Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
26 dB Bandwidth	802.11a	52, 60, 64, 100, 116, 140, 144	BPSK	6Mb/s
	802.11ax (HE20)	52, 60, 64, 100, 116, 140, 144	BPSK	MCS0
	802.11ax (HE40)	54, 62, 102, 110, 134, 142	BPSK	MCS0
	802.11ax (HE80)	58, 106, 122, 138	BPSK	MCS0
	802.11ax (HE160)	50, 114	BPSK	MCS0
RF Output Power	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11n (HT20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11n (HT40)	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ac (VHT80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ac (VHT160)	50, 114	BPSK	MCS0
	802.11ax (HE20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE160)	50, 114	BPSK	MCS0
	20 MHz Preamble 802.11ax (RU26)	36,64,100,140,149	BPSK	MCS0
	20 MHz Preamble 802.11ax (RU52)	36,64,100,140,149	BPSK	MCS0
	20 MHz Preamble 802.11ax (RU106)	36,64,100,140,149	BPSK	MCS0
	40 MHz Preamble 802.11ax (RU242)	38,62,102,134,151	BPSK	MCS0
	80 MHz Preamble 802.11ax (RU484)	42,58,106,155	BPSK	MCS0
	160 MHz Preamble 802.11ax (RU996)	50, 114	BPSK	MCS0
	160 MHz Preamble 802.11ax (RU996/S67)	50, 114	BPSK	MCS0
	Power Spectral Density	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK
802.11ax (HE20)		36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
802.11ax (HE40)		38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
802.11ax (HE80)		42, 58, 106, 122, 138, 155	BPSK	MCS0
802.11ax (HE160)		50, 114	BPSK	MCS0
20 MHz Preamble 802.11ax (RU26)		36,64,100,140,149	BPSK	MCS0
20 MHz Preamble 802.11ax (RU52)		36,64,100,140,149	BPSK	MCS0
20 MHz Preamble 802.11ax (RU106)		36,64,100,140,149	BPSK	MCS0
40 MHz Preamble 802.11ax (RU242)		38,62,102,134,151	BPSK	MCS0
80 MHz Preamble 802.11ax (RU484)		42,58,106,155	BPSK	MCS0
160 MHz Preamble 802.11ax (RU996)		50, 114	BPSK	MCS0
160 MHz Preamble 802.11ax (RU996/S67)		50, 114	BPSK	MCS0
6 dB Bandwidth	802.11a	144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	138, 155	BPSK	MCS0

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
Occupied Bandwidth	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE160)	50, 114	BPSK	MCS0
Frequency Stability	802.11a	36	-	-
AC Power Conducted Emissions	802.11ax (HE160)	50	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ax (HE160)	50	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11a	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	42, 58, 106, 122, 138, 155	BPSK	MCS0
	802.11ax (HE160)	50, 114	BPSK	MCS0
	20 MHz Preamble 802.11ax (RU26)	36, 64, 100, 140, 149	BPSK	MCS0
	20 MHz Preamble 802.11ax (RU52)	36, 64, 100, 140, 149	BPSK	MCS0
	20 MHz Preamble 802.11ax (RU106)	36, 64, 100, 140, 149	BPSK	MCS0
	40 MHz Preamble 802.11ax (RU242)	38, 62, 102, 134, 151	BPSK	MCS0
	80 MHz Preamble 802.11ax (RU484)	42, 58, 106, 155	BPSK	MCS0
	160 MHz Preamble 802.11ax (RU996)	50, 114	BPSK	MCS0
	160 MHz Preamble 802.11ax (RU996/S67)	50, 114	BPSK	MCS0

3.5 Duty Cycle of Test Signal

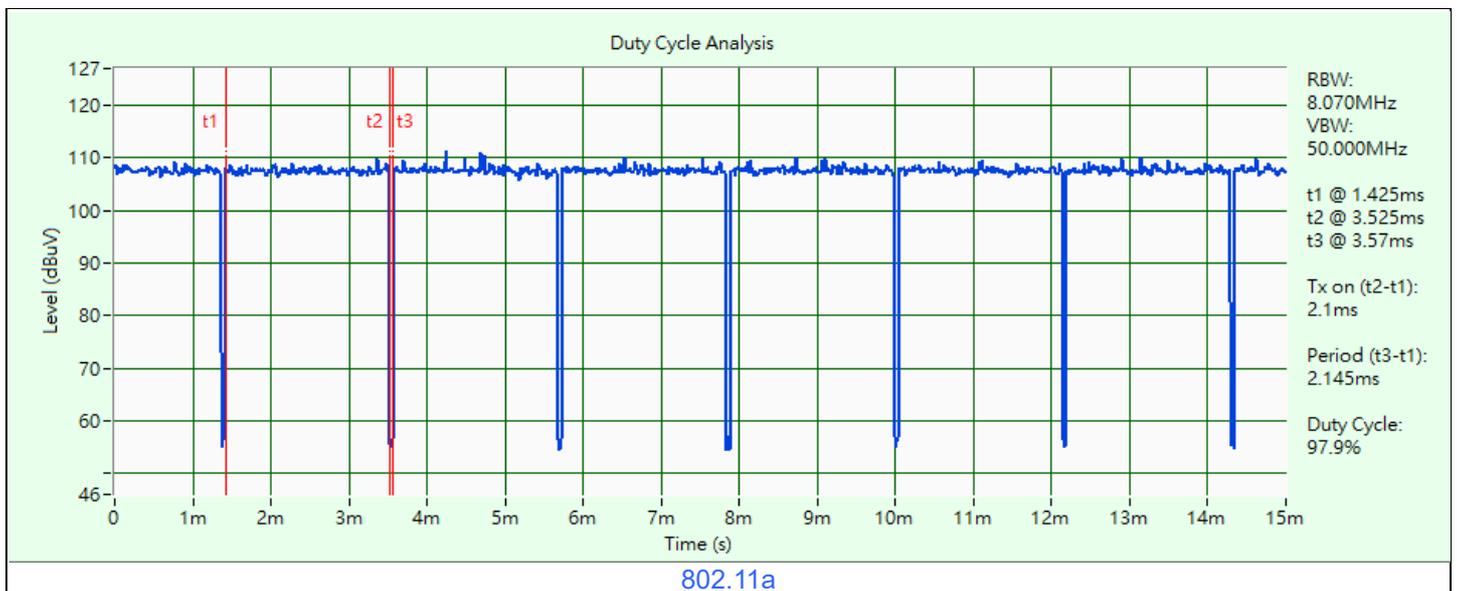
1TX_Chain 0

802.11a: Duty cycle = 2.1 ms / 2.145 ms x 100% = 97.9%, duty factor = 10 * log (1/Duty cycle) = 0.09 dB



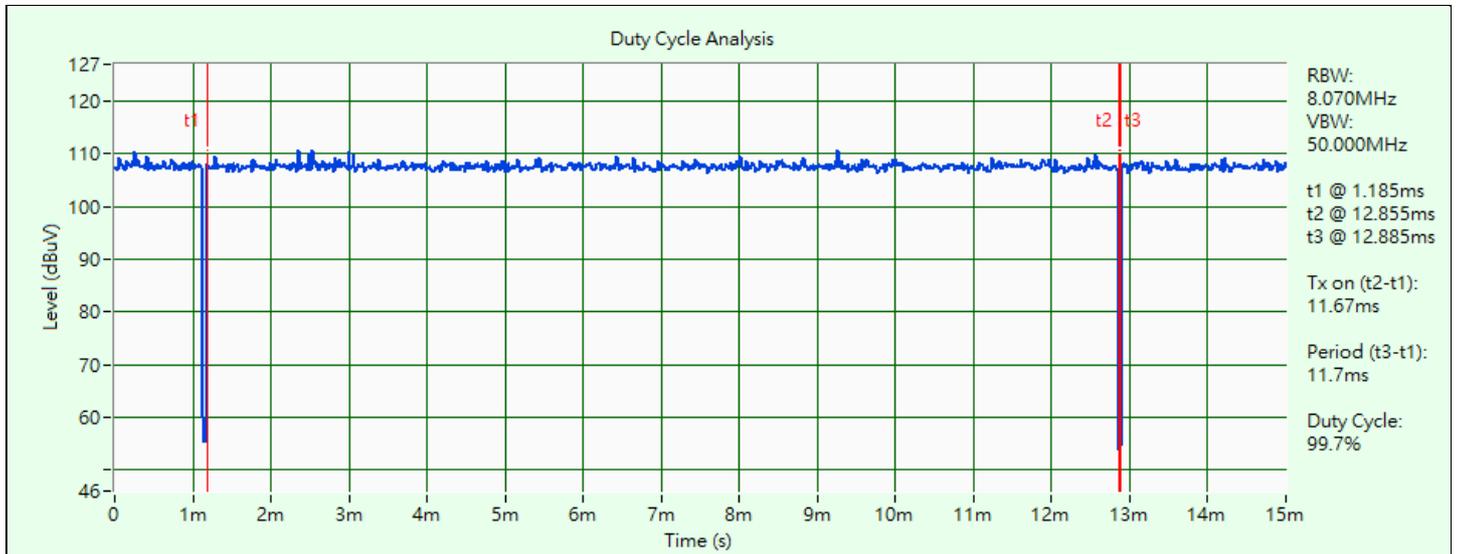
1TX_Chain 1

802.11a: Duty cycle = 2.1 ms / 2.145 ms x 100% = 97.9%, duty factor = 10 * log (1/Duty cycle) = 0.09 dB

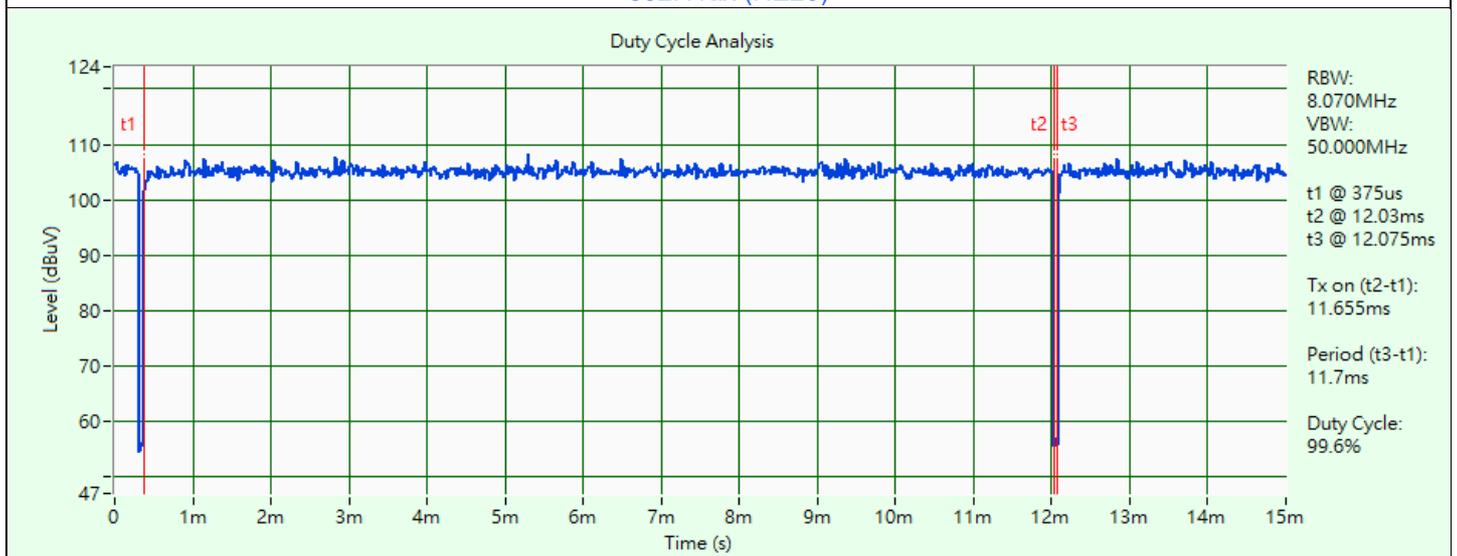


2TX

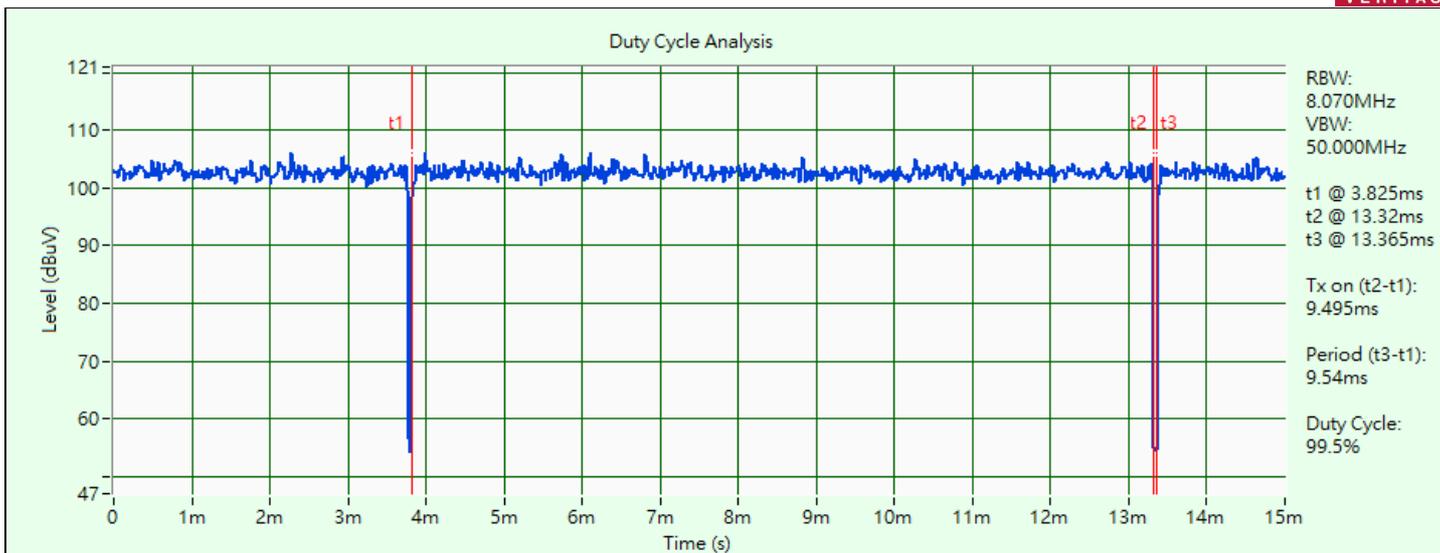
- 802.11ax (HE20):** Duty cycle = 11.67 ms / 11.7 ms x 100% = 99.7%
- 802.11ax (HE40):** Duty cycle = 11.655 ms / 11.7 ms x 100% = 99.6%
- 802.11ax (HE80):** Duty cycle = 9.495 ms / 9.54 ms x 100% = 99.5%
- 802.11ax (HE160):** Duty cycle = 4.785 ms / 4.83 ms x 100% = 99.1%



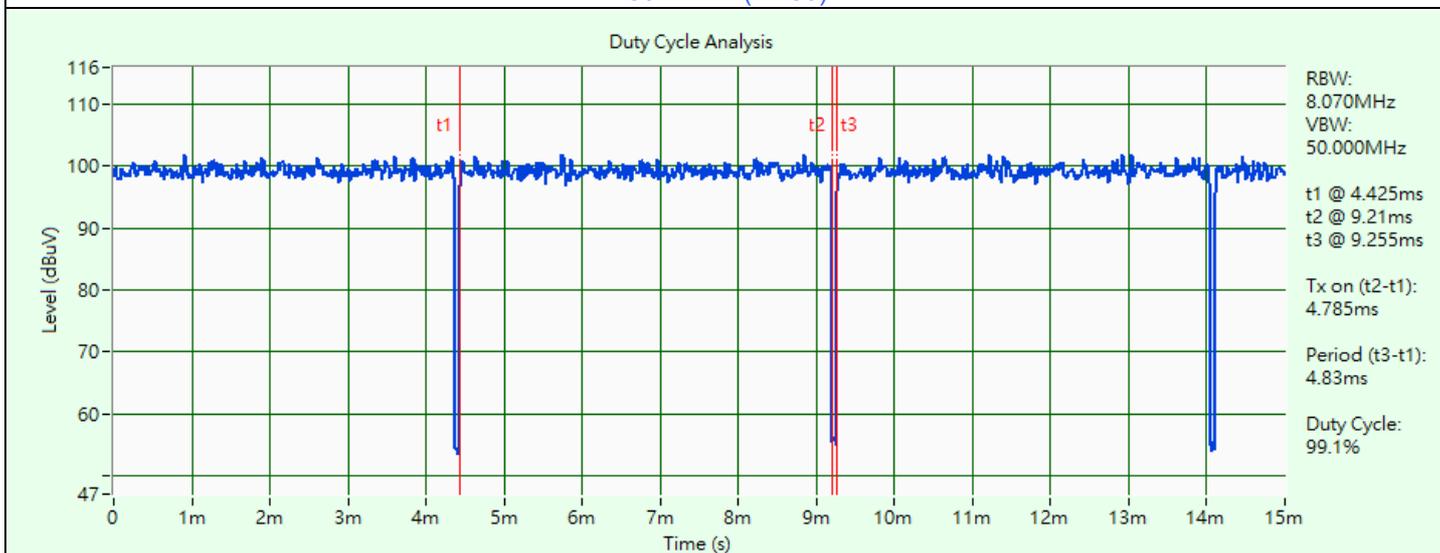
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)

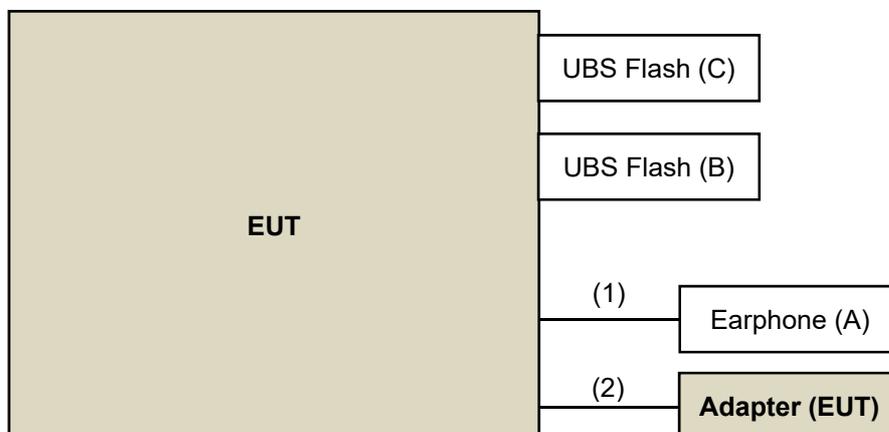


802.11ax (HE160)

3.6 Test Program Used and Operation Descriptions

Controlling software DRTU 0.2999.22.180.0 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Earphone	APPLE	MB77PFEB	N/A	N/A	Provided by Lab
B	USB Flash	Sandisk	N/A	N/A	N/A	Provided by Lab
C	USB Flash	Sandisk	N/A	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	Earphone Cable	1	1.8	N	0	Provided by Lab
2	Type-C to Type-C cable	1	2	Y	0	Accessory of EUT

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
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2022/11/8

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Peak Power Analyzer KEYSIGHT	8990B	MY51000485	2022/1/18	2023/1/17
Power sensor Keysight	U2021XA	MY55380009	2022/3/23	2023/3/22
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24
Wideband Power Sensor(N1923A) KEYSIGHT	N1923A	MY58020002	2022/1/17	2023/1/16

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2022/11/8

4.3 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Electrostatic Analog Tester SCHAFFNER	NSG-438	1326	2022/7/8	2023/7/7
Electrostatic Analog Tester TESEQ	NSG 438	1614	2022/8/3	2023/8/2
ESD Generator EM Test	Dito	V0701102114	2021/11/18	2022/11/17
ESD GUN em test	dito	P2209261291 / P2206259188	2022/5/4	2023/5/3
ESD Simulator Noiseken	ESS-B3011A	ESS1694113	2022/8/3	2023/8/2
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24

Notes:

1. The test was performed in Oven room.
2. The test was performed in HY - ESD 1.
3. Tested Date: 2022/11/8

4.4 6 dB Bandwidth

Refer to section 4.1 to get information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get information of the instruments.

4.6 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
AC Power Source ExTech	CFW-105	E000603	N/A	N/A
Digital Multimeter Fluke	87-III	70360742	2022/6/23	2023/6/22
Software BV	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer R&S	FSV40	100979	2022/3/25	2023/3/24
Temperature & Humidity Chamber TERCHY	HRM-120RF	931022	2022/1/3	2023/1/2

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2022/11/8

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
LISN R&S	ESH2-Z5	100100	2022/2/17	2023/2/16
LISN Schwarzbeck	NNLK 8121	8121-731	2022/5/26	2023/5/25
Receiver R&S	ESCI	100412	2022/8/22	2023/8/21
RF Coaxial Cable WORKEN	5D-FB	Cable-cond2-01	2022/9/3	2023/9/2
Software BVADT	BVADT_Cond_ V7.3.7.4	N/A	N/A	N/A
Temperature&Humidity Meter Lufft	5098.00	Lf11015	2022/1/7	2023/1/6
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2022/8/31	2023/8/30

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2022/11/3

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Bi-log Broadband Antenna Schwarzbeck	VULB9168	9168-1213	2022/10/20	2023/10/19
Loop Antenna EMCI	EM-6879	269	2022/9/19	2023/9/18
Loop Antenna TESEQ	HLA 6121	45745	2022/7/27	2023/7/26
Pre-amplifier EMCI	EMC001340	980201	2022/9/23	2023/9/22
Pre_Amplifier EMCI	EMC330N	980782	2022/1/17	2023/1/16
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2022/1/15	2023/1/14
	EMCCFD400-NM-NM- 500	201233	2022/1/17	2023/1/16
	EMCCFD400-NM-NM- 3000	201235	2022/1/17	2023/1/16
	EMCCFD400-NM-NM- 9000	201236	2022/1/17	2023/1/16
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Spectrum Analyzer R&S	FSW43	101866	2022/1/14	2023/1/13
Test Receiver R&S	ESR3+	102782	2021/12/10	2022/12/9
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2022/10/21

4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Horn Antenna RFSPIN	DRH18-E	210103A18E	2021/11/14	2022/11/13
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2021/11/14	2022/11/13
Pre_Amplifier EMCI	EMC118A45SE	980808	2021/12/30	2022/12/29
	EMC184045SE	980788	2022/1/17	2023/1/16
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2022/1/17	2023/1/16
	EMC101G-KM-KM-3000	201257	2022/1/17	2023/1/16
	EMC101G-KM-KM-5000	201260	2022/1/17	2023/1/16
	EMC104-SM-SM-1000	210102	2022/1/17	2023/1/16
	EMC104-SM-SM-3000	201231	2022/1/17	2023/1/16
	EMC104-SM-SM-9000	201243	2022/1/17	2023/1/16
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Spectrum Analyzer R&S	FSW43	101866	2022/1/14	2023/1/13
Test Receiver R&S	ESR3+	102782	2021/12/10	2022/12/9
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2022/10/26 ~ 2022/11/4

5 Limits of Test Items

5.1 26 dB Bandwidth

The results are for reference only.

5.2 RF Output Power

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

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

*B is the 26 dB emission bandwidth in megahertz

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

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

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

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

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

5.3 Power Spectral Density

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

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

5.4 6 dB Bandwidth

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

5.5 Occupied Bandwidth

The results are for reference only.

5.6 Frequency Stability

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

5.7 AC Power Conducted Emissions

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

Notes:

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

5.8 Unwanted Emissions below 1 GHz

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

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

Notes:

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

5.9 Unwanted Emissions above 1 GHz

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

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

Notes:

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

Limits of unwanted emission out of the restricted bands

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3 m	
		PK: 74 (dBµV/m)	AV: 54 (dBµV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
5150~5250 MHz	15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBµV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2 (dBµV/m) ^{*1} PK: 105.2 (dBµV/m) ^{*2} PK: 110.8 (dBµV/m) ^{*3} PK: 122.2 (dBµV/m) ^{*4}
*1 beyond 75 MHz or more above of the band edge.		*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.	
*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.		*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

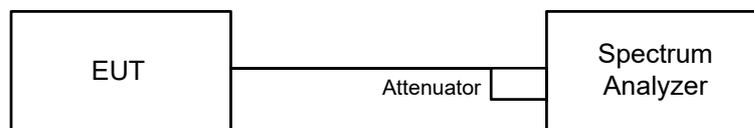
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

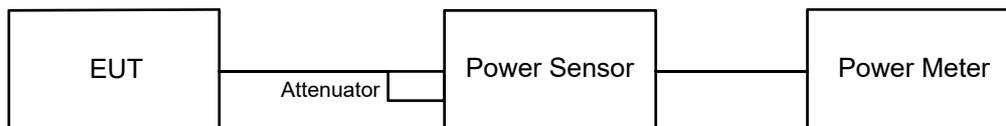


6.1.2 Test Procedure

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

6.2 RF Output Power

6.2.1 Test Setup



For channel straddling:



6.2.2 Test Procedure

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

For channel straddling:

Method SA-1

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW \geq 3 MHz, Detector = RMS
- Sweep points \geq $\lceil 2 \times \text{span} / \text{RBW} \rceil$. (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

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

For channel straddling:

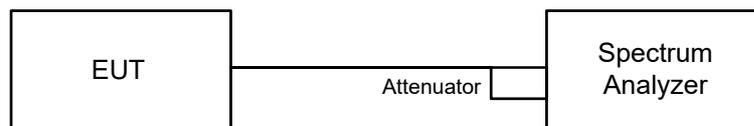
Method SA-2A

- 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 $\lceil 2 \times \text{span} / \text{RBW} \rceil$. (This gives bin-to-bin spacing \leq RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Manually set sweep time $\geq 10 \times$ (number of points in sweep) \times (total on/off period of the transmitted signal).
- Perform a single sweep.
- Record the max value and add $10 \log(1/\text{duty cycle})$.

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

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

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

For specified measurement bandwidth 1 MHz:

Method SA-2

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

For specified measurement bandwidth 500 kHz:

Method SA-1

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

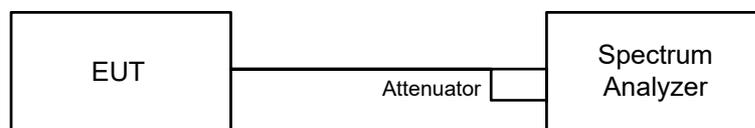
For specified measurement bandwidth 500 kHz:

Method SA-2

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

6.4 6 dB Bandwidth

6.4.1 Test Setup

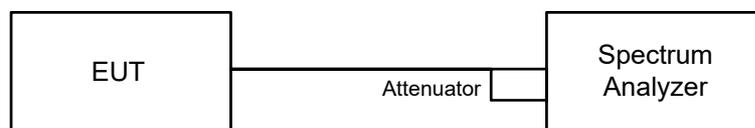


6.4.2 Test Procedure

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

6.5 Occupied Bandwidth

6.5.1 Test Setup

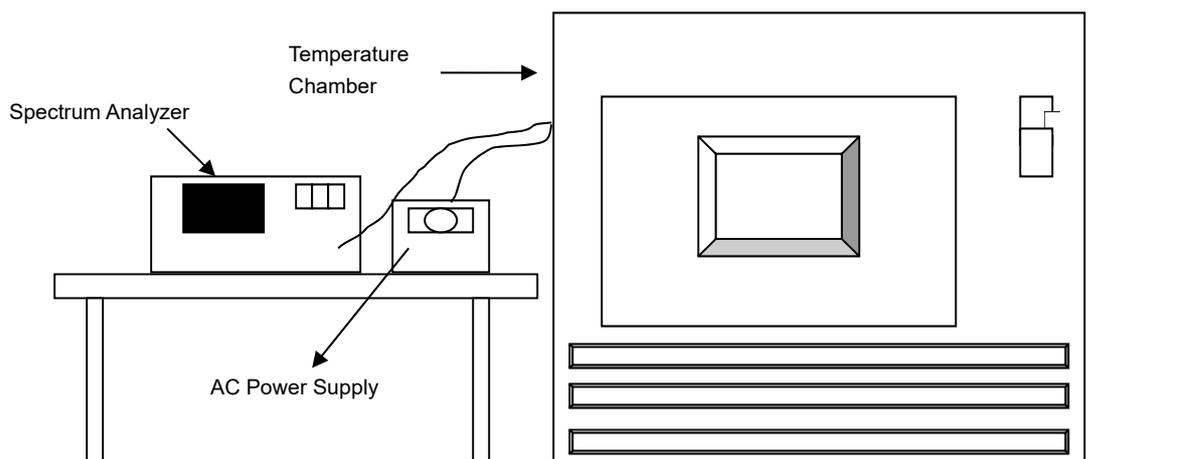


6.5.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

6.6 Frequency Stability

6.6.1 Test Setup

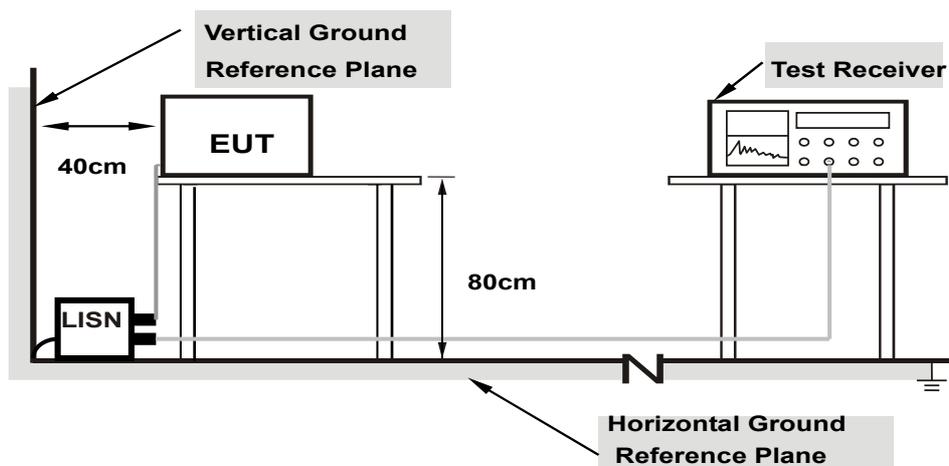


6.6.2 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

6.7 AC Power Conducted Emissions

6.7.1 Test Setup



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

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

6.7.2 Test Procedure

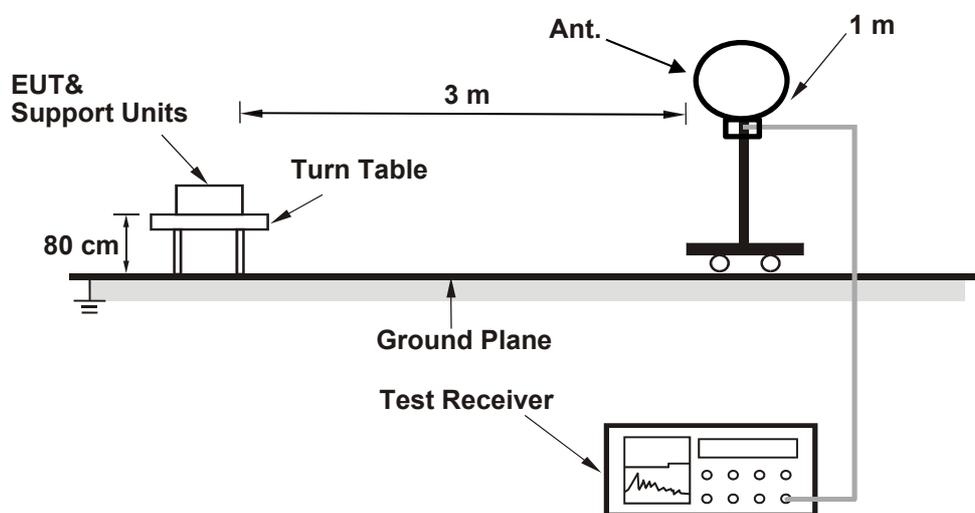
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

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

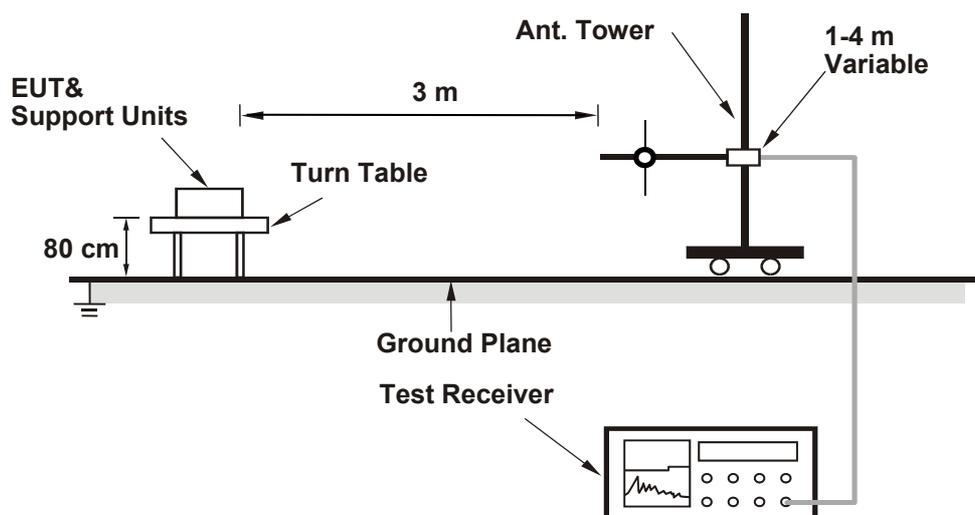
6.8 Unwanted Emissions below 1 GHz

6.8.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.8.2 Test Procedure

For Radiated emission below 30 MHz

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

Notes:

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

For Radiated emission above 30 MHz

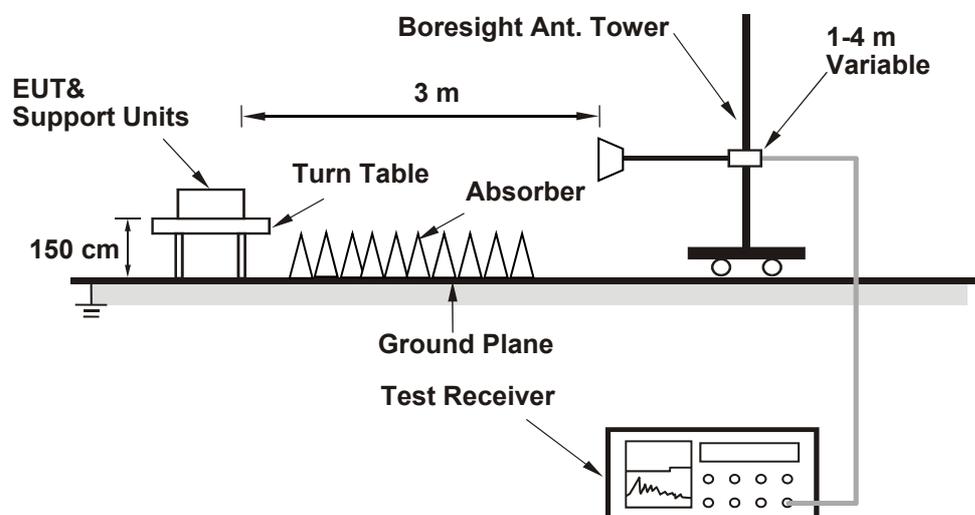
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak 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:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Vincent Huang
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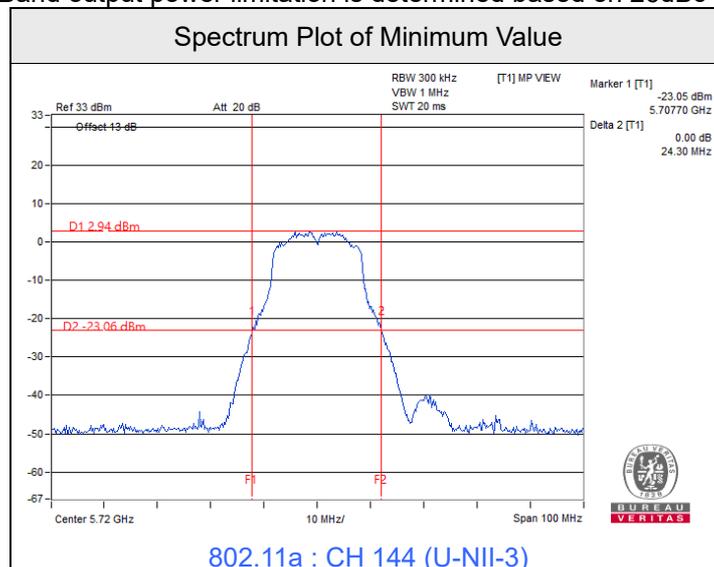
1TX_Chain 0

802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
52	5260	24.24
60	5300	24.65
64	5320	24.45
100	5500	24.23
116	5580	24.37
140	5700	24.25
144 (U-NII-2C)	5720	17.30
144 (U-NII-3)	5720	7.00

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	24.24	24.84 > 24
60	5300	24.65	24.91 > 24
64	5320	24.45	24.88 > 24
100	5500	24.23	24.84 > 24
116	5580	24.37	24.86 > 24
140	5700	24.25	24.84 > 24
144 (U-NII-2C)	5720	17.30	23.38 < 24

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



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

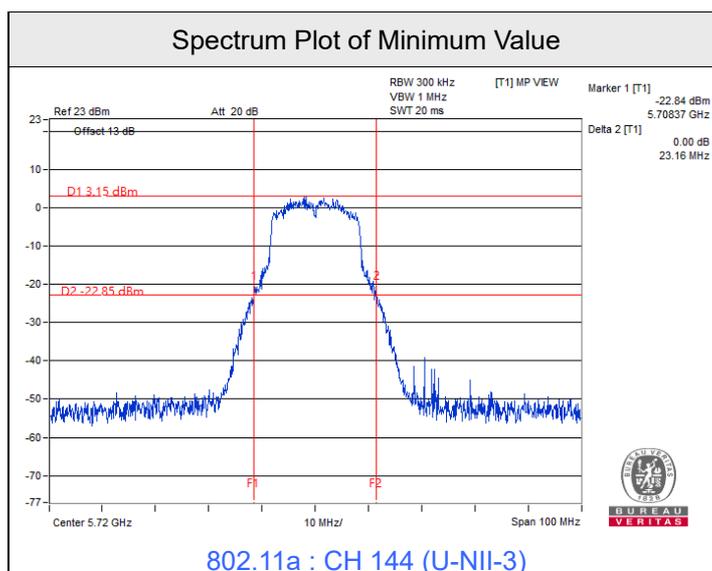
1TX_Chain 1

802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)
52	5260	23.67
60	5300	23.48
64	5320	24.00
100	5500	24.29
116	5580	23.98
140	5700	23.78
144 (U-NII-2C)	5720	16.63
144 (U-NII-3)	5720	6.53

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	23.67	24.74 > 24
60	5300	23.48	24.7 > 24
64	5320	24.00	24.8 > 24
100	5500	24.29	24.85 > 24
116	5580	23.98	24.79 > 24
140	5700	23.78	24.76 > 24
144 (U-NII-2C)	5720	16.63	23.2 < 24

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



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

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

2TX
802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	23.94	23.63
60	5300	23.34	23.51
64	5320	23.31	23.94
100	5500	22.76	24.38
116	5580	23.38	23.50
140	5700	22.28	24.33
144 (U-NII-2C)	5720	16.30	16.76
144 (U-NII-3)	5720	6.82	6.92

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	23.63	24.73 > 24
60	5300	23.34	24.68 > 24
64	5320	23.31	24.67 > 24
100	5500	22.76	24.57 > 24
116	5580	23.38	24.68 > 24
140	5700	22.28	24.47 > 24
144 (U-NII-2C)	5720	16.30	23.12 < 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	43.43	42.88
62	5310	44.17	43.92
102	5510	42.46	43.28
110	5550	42.89	42.46
134	5670	43.09	43.91
142 (U-NII-2C)	5710	35.95	36.90
142 (U-NII-3)	5710	5.77	5.99

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	42.88	27.32 > 24
62	5310	43.92	27.42 > 24
102	5510	42.46	27.27 > 24
110	5550	42.46	27.27 > 24
134	5670	43.09	27.34 > 24
142 (U-NII-2C)	5710	35.95	26.55 > 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	83.11	84.53
106	5530	82.24	83.04
122	5610	83.21	83.57
138 (U-NII-2C)	5690	77.77	76.11
138 (U-NII-3)	5690	6.95	6.72

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	83.11	30.19 > 24
106	5530	82.24	30.15 > 24
122	5610	83.21	30.2 > 24
138 (U-NII-2C)	5690	76.11	29.81 > 24

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

802.11ax (HE160)

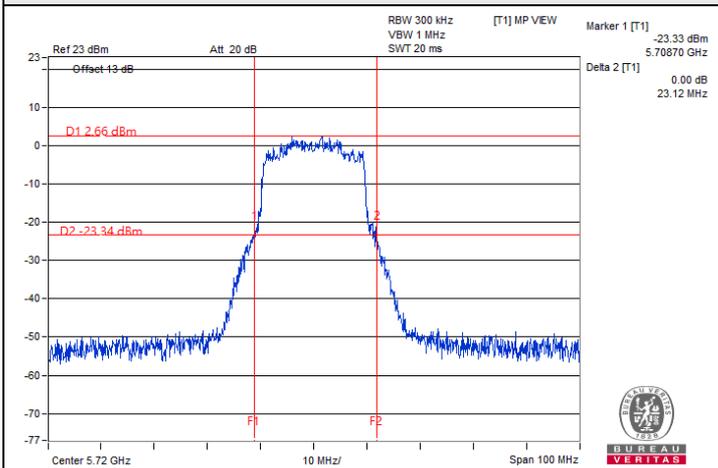
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	81.86	82.16
50 (U-NII-2A)	5250	82.61	82.73
114	5570	165.55	165.48

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
50 (U-NII-2A)	5250	82.73	30.17 > 24
114	5570	167.46	33.23 > 24

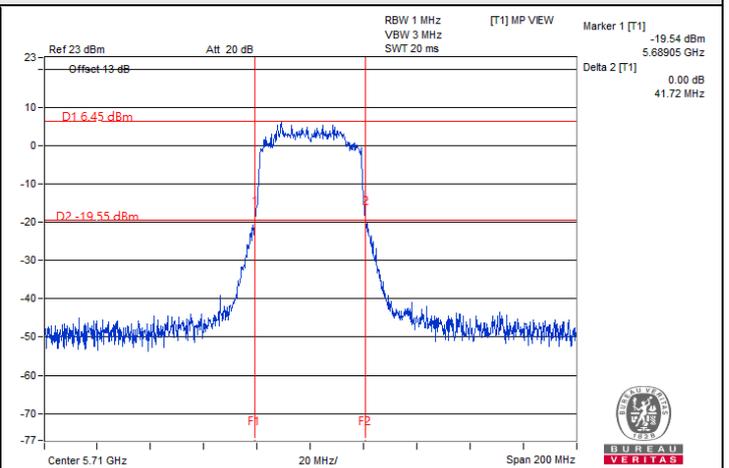
Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.



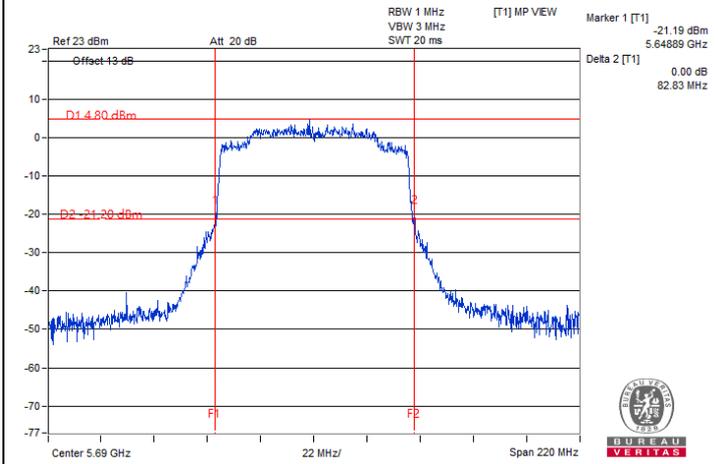
Spectrum Plot of Minimum Value



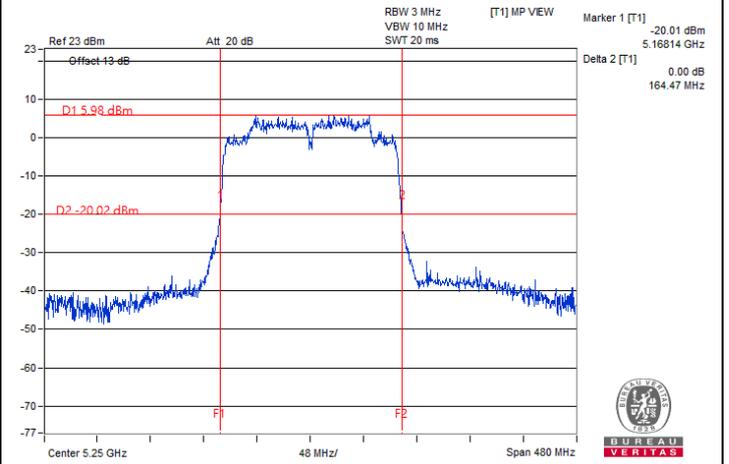
802.11ax (HE20) / Chain 0 : CH 144 (U-NII-3)



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



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



802.11ax (HE160) / Chain 0 : CH 50

Notes:

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

7.2 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Vincent Huang
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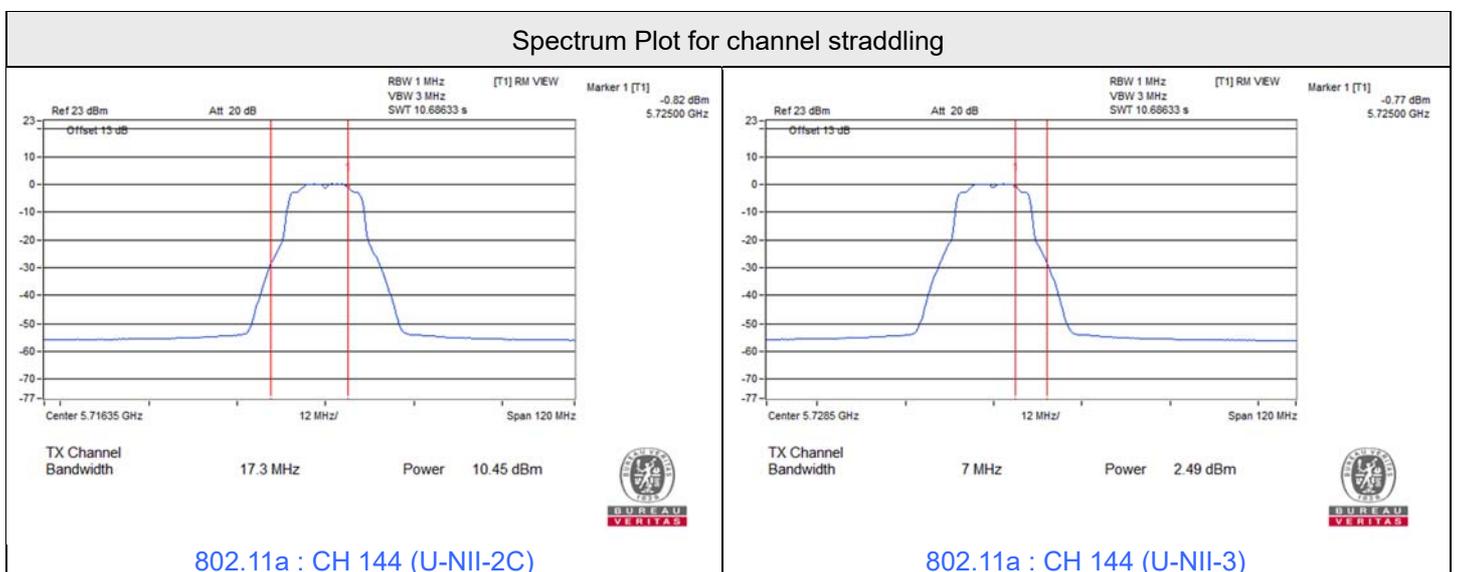
1TX_Chain 0

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	13.646	11.35	24	Pass
40	5200	13.583	11.33	24	Pass
48	5240	13.335	11.25	24	Pass
52	5260	13.305	11.24	24	Pass
60	5300	13.397	11.27	24	Pass
64	5320	13.552	11.32	24	Pass
100	5500	13.428	11.28	24	Pass
116	5580	13.032	11.15	24	Pass
140	5700	13.366	11.26	24	Pass
*144 (U-NII-2C)	5720	11.329	10.54	23.38	Pass
*144 (U-NII-3)	5720	1.812	2.58	30	Pass
149	5745	13.002	11.14	30	Pass
157	5785	13.183	11.20	30	Pass
165	5825	12.972	11.13	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 2.21 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 3.34 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 1.29 dBi < 6 dBi, so the output power limit shall not be reduced.



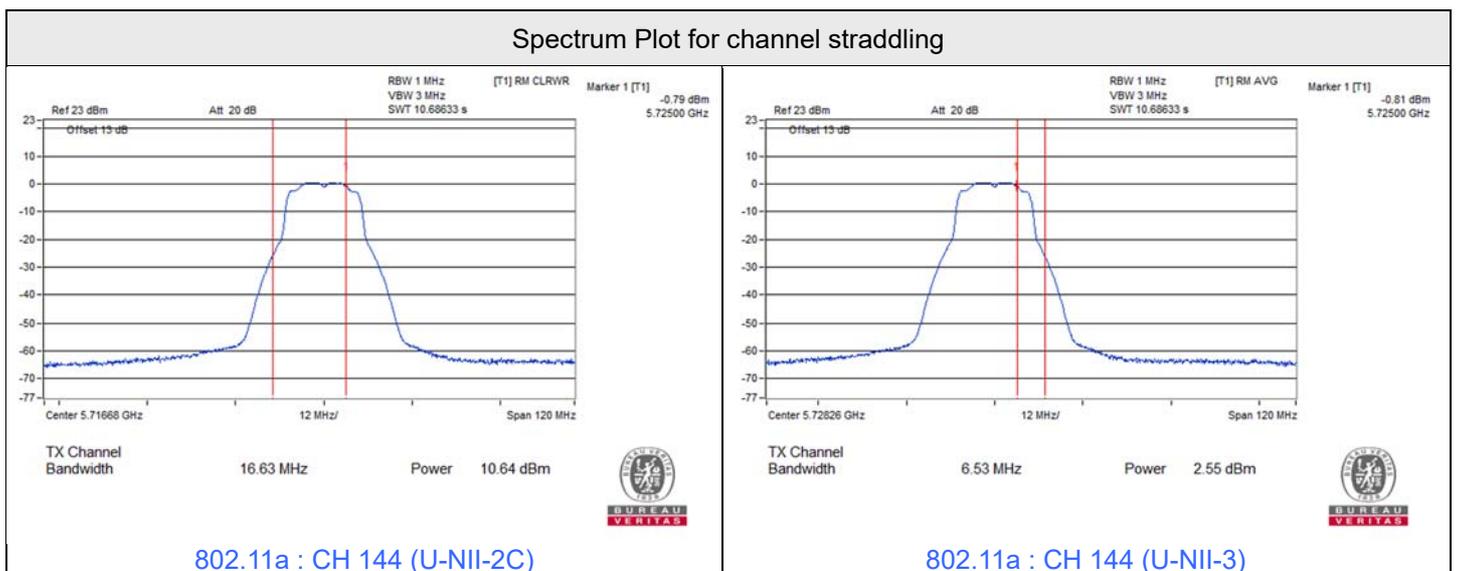
1TX_Chain 1

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	13.996	11.46	24	Pass
40	5200	13.804	11.40	24	Pass
48	5240	13.709	11.37	24	Pass
52	5260	13.836	11.41	24	Pass
60	5300	13.677	11.36	24	Pass
64	5320	13.900	11.43	24	Pass
100	5500	13.772	11.39	24	Pass
116	5580	13.428	11.28	24	Pass
140	5700	13.772	11.39	24	Pass
*144 (U-NII-2C)	5720	11.836	10.73	23.2	Pass
*144 (U-NII-3)	5720	1.837	2.64	30	Pass
149	5745	13.335	11.25	30	Pass
157	5785	13.428	11.28	30	Pass
165	5825	13.274	11.23	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-2A and use spectrum analyzer test , the duty factor was included in the total power.
- For U-NII-1, the antenna gain is 2.18 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 1.01 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the antenna gain is 2.19 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the antenna gain is 2.29 dBi < 6 dBi, so the output power limit shall not be reduced.



2TX

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	11.28	11.44	27.359	14.37	24	Pass
40	5200	11.26	11.43	27.265	14.36	24	Pass
48	5240	11.21	11.45	27.177	14.34	24	Pass
52	5260	11.26	11.42	27.234	14.35	24	Pass
60	5300	11.21	11.45	27.177	14.34	24	Pass
64	5320	11.17	11.43	26.991	14.31	24	Pass
100	5500	11.25	11.41	27.171	14.34	24	Pass
116	5580	11.24	11.36	26.982	14.31	24	Pass
140	5700	11.32	11.44	27.483	14.39	24	Pass
*144 (U-NII-2C)	5720	10.67	10.81	23.718	13.75	23.1	Pass
*144 (U-NII-3)	5720	3.42	3.58	4.478	6.51	30	Pass
149	5745	11.32	11.41	27.388	14.38	30	Pass
157	5785	11.33	11.39	27.355	14.37	30	Pass
165	5825	11.25	11.36	27.013	14.32	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 , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.21 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.34 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 2.29 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	11.31	11.49	27.614	14.41	24	Pass
46	5230	11.24	11.41	27.140	14.34	24	Pass
54	5270	11.24	11.44	27.236	14.35	24	Pass
62	5310	11.23	11.45	27.238	14.35	24	Pass
102	5510	11.28	11.41	27.263	14.36	24	Pass
110	5550	11.25	11.36	27.013	14.32	24	Pass
134	5670	11.34	11.43	27.514	14.40	24	Pass
*142 (U-NII-2C)	5710	10.81	10.78	24.018	13.81	24	Pass
*142 (U-NII-3)	5710	-1.03	-1.49	1.4984	1.76	30	Pass
151	5755	11.24	11.41	27.140	14.34	30	Pass
159	5795	11.24	11.35	26.950	14.31	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.21 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.34 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 2.29 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	11.34	11.41	27.450	14.39	24	Pass
58	5290	11.34	11.43	27.514	14.40	24	Pass
106	5530	11.39	11.43	27.672	14.42	24	Pass
122	5610	11.33	11.46	27.579	14.41	24	Pass
*138 (U-NII-2C)	5690	11.06	11.39	26.536	14.24	24	Pass
*138 (U-NII-3)	5690	-4.83	-4.23	0.7064	-1.51	30	Pass
155	5775	11.34	11.41	27.450	14.39	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 , the duty factor was included in the total power.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.21 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.34 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 2.29 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	7.35	7.47	11.017	10.42	24	Pass
*50 (U-NII-2A)	5250	7.35	7.73	11.362	10.55	24	Pass
114	5570	11.34	11.45	27.578	14.41	24	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 2.21 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the antenna gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 3.34 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	11.31	11.46	27.517	14.40	24	Pass
40	5200	11.29	11.44	27.390	14.38	24	Pass
48	5240	11.23	11.47	27.302	14.36	24	Pass
52	5260	11.28	11.43	27.327	14.37	24	Pass
60	5300	11.23	11.48	27.334	14.37	24	Pass
64	5320	11.18	11.45	27.086	14.33	24	Pass
100	5500	11.26	11.43	27.265	14.36	24	Pass
116	5580	11.28	11.38	27.168	14.34	24	Pass
140	5700	11.35	11.45	27.610	14.41	24	Pass
*144 (U-NII-2C)	5720	10.75	10.88	24.131	13.83	23.12	Pass
*144 (U-NII-3)	5720	3.55	3.70	4.609	6.64	30	Pass
149	5745	11.34	11.42	27.482	14.39	30	Pass
157	5785	11.36	11.41	27.513	14.40	30	Pass
165	5825	11.28	11.36	27.105	14.33	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 2.21 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the antenna gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 3.34 dBi < 6 dBi, so the output power limit shall not be reduced.
6. For U-NII-3, the maximum gain is 2.29 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	11.33	11.49	27.676	14.42	24	Pass
46	5230	11.28	11.43	27.327	14.37	24	Pass
54	5270	11.28	11.45	27.391	14.38	24	Pass
62	5310	11.27	11.48	27.457	14.39	24	Pass
102	5510	11.31	11.43	27.420	14.38	24	Pass
110	5550	11.27	11.39	27.169	14.34	24	Pass
134	5670	11.37	11.46	27.705	14.43	24	Pass
*142 (U-NII-2C)	5710	10.95	10.91	24.776	13.94	24	Pass
*142 (U-NII-3)	5710	-0.96	-1.36	1.5328	1.85	30	Pass
151	5755	11.26	11.43	27.265	14.36	30	Pass
159	5795	11.27	11.38	27.137	14.34	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 2.21 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.34 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 2.29 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	11.37	11.42	27.576	14.41	24	Pass
58	5290	11.38	11.44	27.672	14.42	24	Pass
106	5530	11.42	11.45	27.831	14.45	24	Pass
122	5610	11.37	11.48	27.769	14.44	24	Pass
*138 (U-NII-2C)	5690	11.13	11.45	26.935	14.30	24	Pass
*138 (U-NII-3)	5690	-4.70	-4.15	0.7234	-1.41	30	Pass
155	5775	11.37	11.43	27.608	14.41	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 2.21 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the antenna gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 3.34 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 2.29 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	7.41	7.52	11.157	10.48	24	Pass
*50 (U-NII-2A)	5250	7.40	7.80	11.521	10.61	24	Pass
114	5570	11.36	11.46	27.673	14.42	24	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 2.21 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the antenna gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 3.34 dBi < 6 dBi, so the output power limit shall not be reduced.

20 MHz Preamble 802.11ax (RU26)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	11.23	11.41	27.110	14.33	24	Pass
64	5320	11.15	11.42	26.899	14.30	24	Pass
100	5500	11.24	11.38	27.045	14.32	24	Pass
140	5700	11.33	11.41	27.419	14.38	24	Pass
149	5745	11.32	11.39	27.324	14.37	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 2.21 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the antenna gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 3.34 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 2.29 dBi < 6 dBi, so the output power limit shall not be reduced.

20 MHz Preamble 802.11ax (RU52)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	11.24	11.39	27.077	14.33	24	Pass
64	5320	11.16	11.41	26.897	14.30	24	Pass
100	5500	11.23	11.39	27.046	14.32	24	Pass
140	5700	11.32	11.43	27.451	14.39	24	Pass
149	5745	11.31	11.41	27.356	14.37	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 2.21 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the antenna gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 3.34 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 2.29 dBi < 6 dBi, so the output power limit shall not be reduced.

20 MHz Preamble 802.11ax (RU106)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	11.22	11.42	27.111	14.33	24	Pass
64	5320	11.14	11.40	26.806	14.28	24	Pass
100	5500	11.21	11.41	27.049	14.32	24	Pass
140	5700	11.34	11.40	27.418	14.38	24	Pass
149	5745	11.29	11.38	27.199	14.35	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 2.21 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the antenna gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 3.34 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 2.29 dBi < 6 dBi, so the output power limit shall not be reduced.

40 MHz Preamble 802.11ax (RU242)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	11.28	11.46	27.424	14.38	24	Pass
62	5310	11.26	11.45	27.330	14.37	24	Pass
102	5510	11.29	11.41	27.294	14.36	24	Pass
134	5670	11.34	11.43	27.514	14.40	24	Pass
151	5755	11.23	11.39	27.046	14.32	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 2.21 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the antenna gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 3.34 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 2.29 dBi < 6 dBi, so the output power limit shall not be reduced.

80 MHz Preamble 802.11ax (RU484)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	11.29	11.36	27.136	14.34	24	Pass
58	5290	11.31	11.39	27.293	14.36	24	Pass
106	5530	11.32	11.38	27.292	14.36	24	Pass
155	5775	11.32	11.35	27.198	14.35	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 2.21 dBi < 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-2A, the antenna gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2C, the maximum gain is 3.34 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-3, the maximum gain is 2.29 dBi < 6 dBi, so the output power limit shall not be reduced.

160 MHz Preamble 802.11ax (RU996)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	11.05	11.01	27.377	14.37	24	Pass
*50 (U-NII-2A)	5250	-31.15	-34.98	0.0011717	-29.31	24	Pass
114	5570	11.33	11.45	27.547	14.40	24	Pass

Notes:

1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 2.21 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the antenna gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 3.34 dBi < 6 dBi, so the output power limit shall not be reduced.

160 MHz Preamble 802.11ax (RU996/S67)

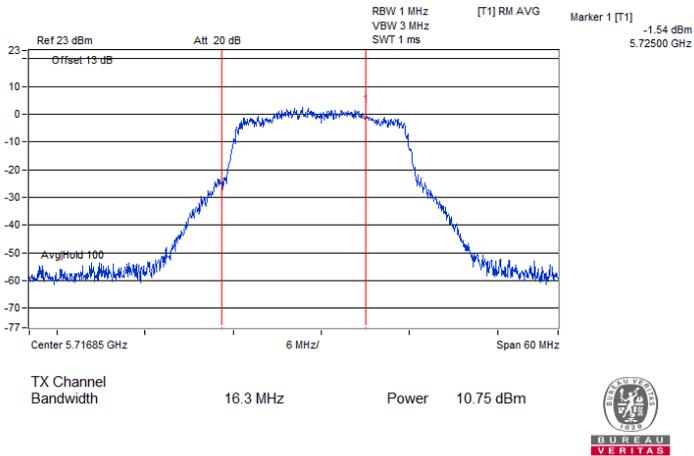
Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	-28.31	-30.75	0.0024254	-26.15	24	Pass
*50 (U-NII-2A)	5250	11.23	11.23	27.788	14.44	24	Pass
114	5570	11.32	11.43	27.451	14.39	24	Pass

Notes:

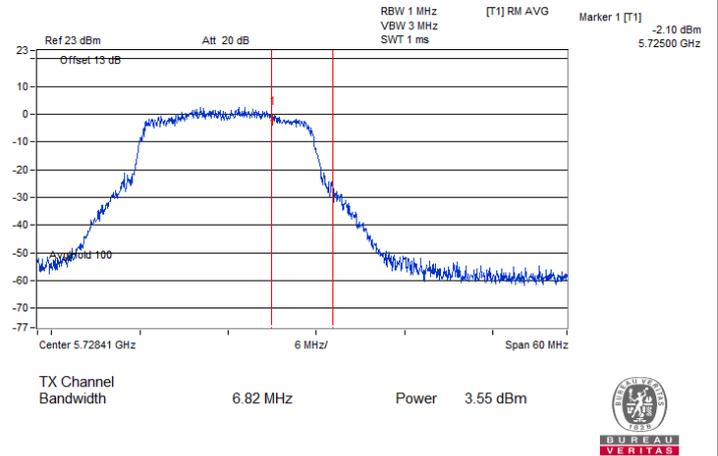
1. * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test , the duty factor was included in the total power.
2. Directional gain is the maximum gain of antennas.
3. For U-NII-1, the maximum gain is 2.21 dBi < 6 dBi, so the output power limit shall not be reduced.
4. For U-NII-2A, the antenna gain is 3.69 dBi < 6 dBi, so the output power limit shall not be reduced.
5. For U-NII-2C, the maximum gain is 3.34 dBi < 6 dBi, so the output power limit shall not be reduced.



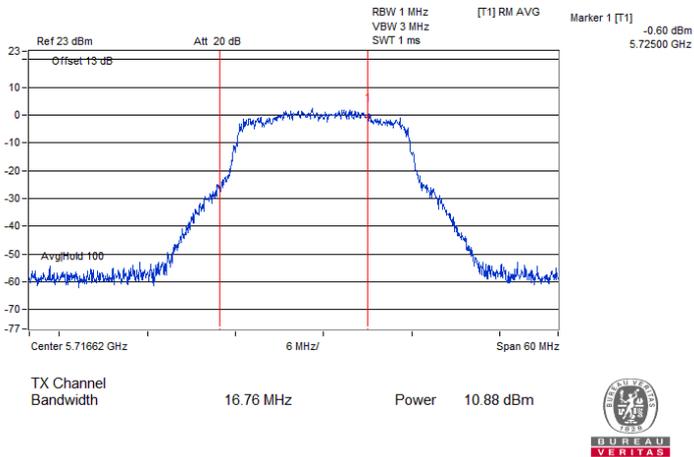
Spectrum Plot for channel straddling



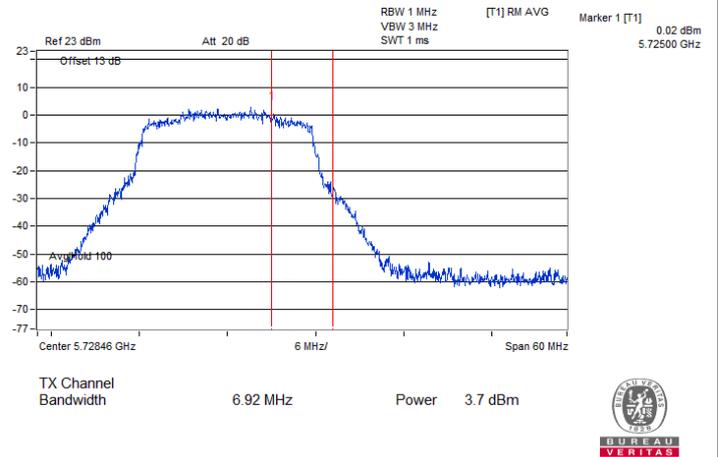
802.11ax (HE20) / Chain 0 : CH 144 (U-NII-2C)



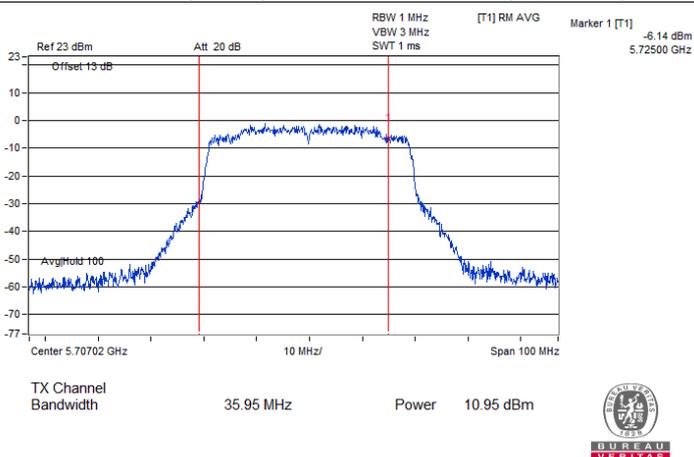
802.11ax (HE20) / Chain 0 : CH 144 (U-NII-3)



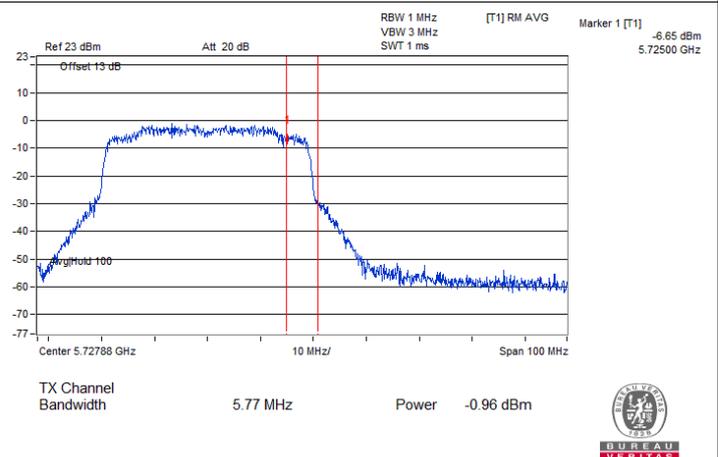
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-2C)



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



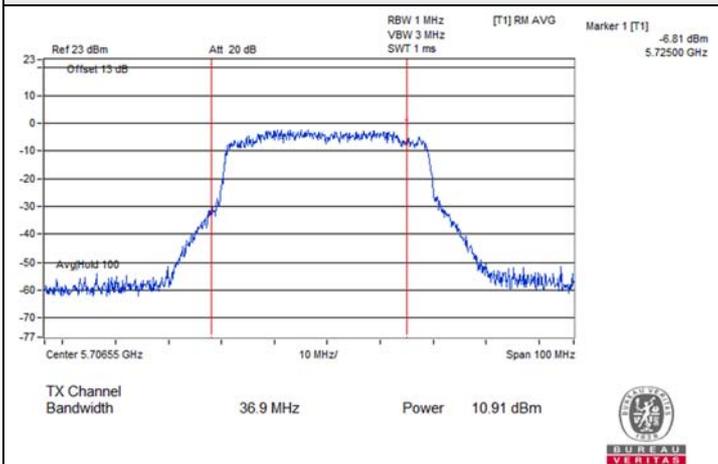
802.11ax (HE40) / Chain 0 : CH 142 (U-NII-2C)



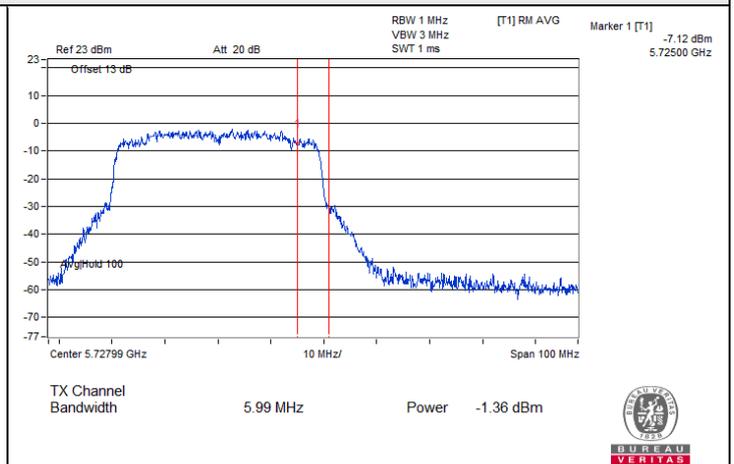
802.11ax (HE40) / Chain 0 : CH 142 (U-NII-3)



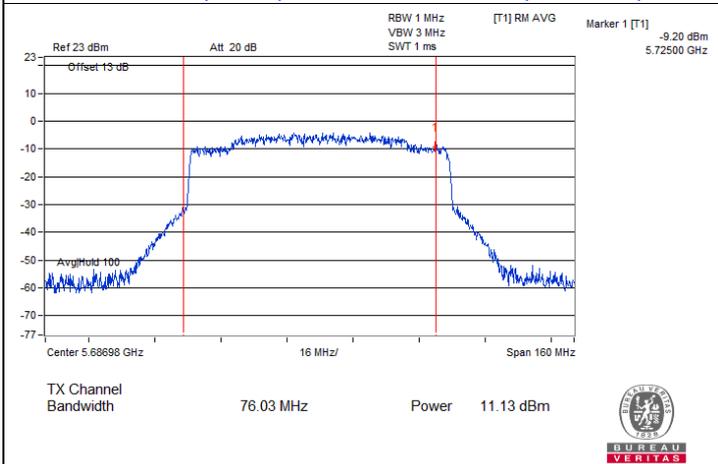
Spectrum Plot for channel straddling



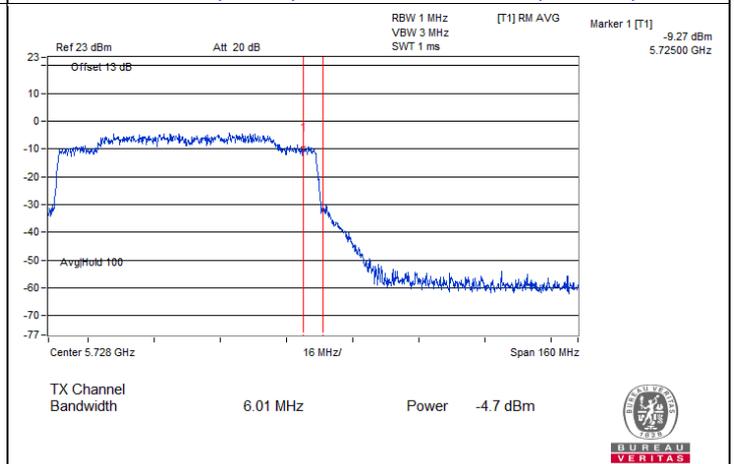
802.11ax (HE40) / Chain 1 : CH 142 (U-NII-2C)



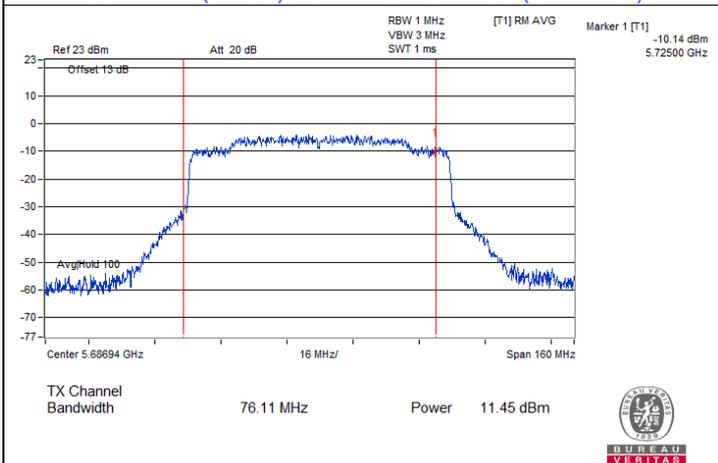
802.11ax (HE40) / Chain 1 : CH 142 (U-NII-3)



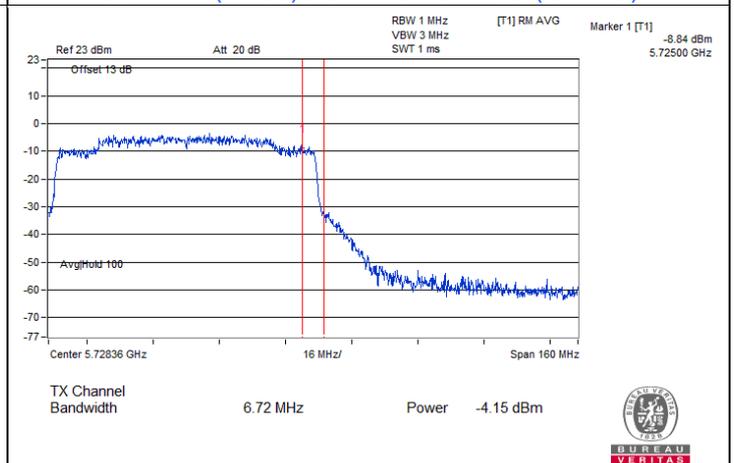
802.11ax (HE80) / Chain 0 : CH 138 (U-NII-2C)



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

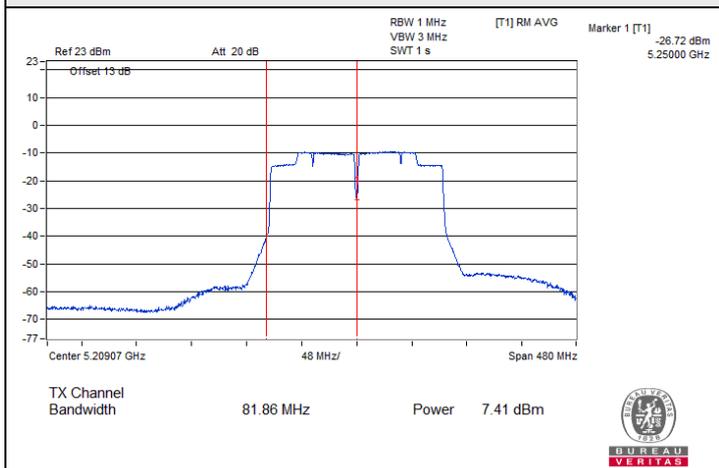


802.11ax (HE80) / Chain 1 : CH 138 (U-NII-2C)

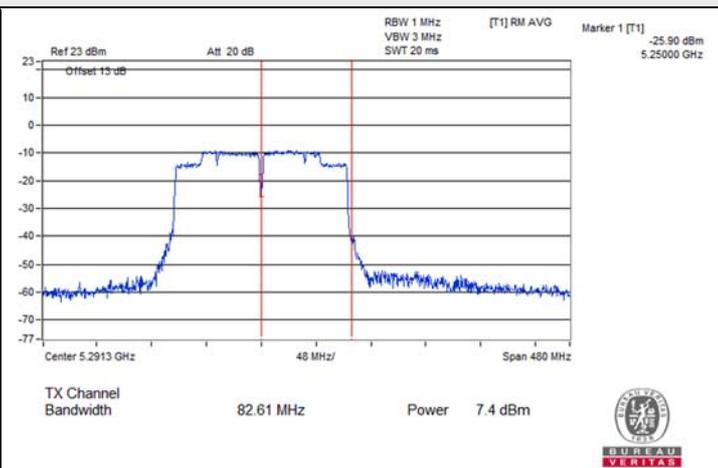


802.11ax (HE80) / Chain 1 : CH 138 (U-NII-3)

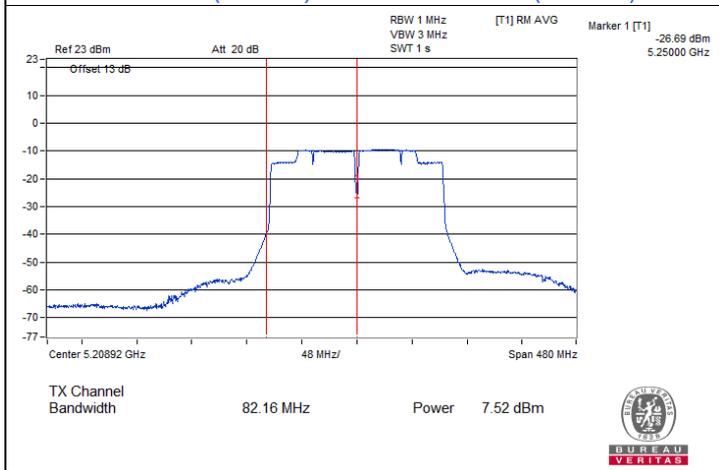
Spectrum Plot for channel straddling



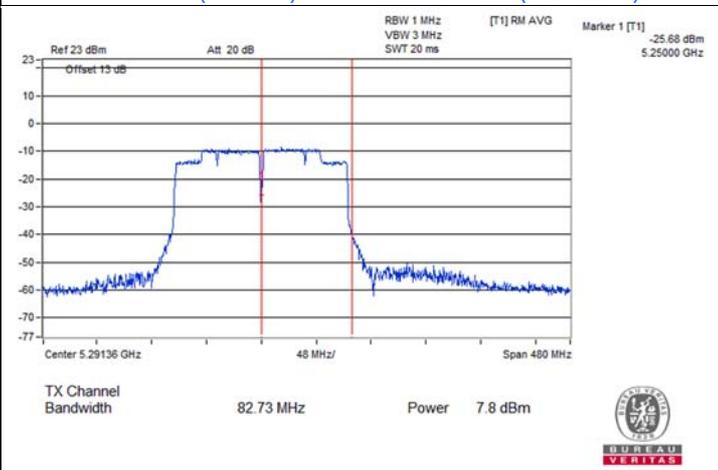
802.11ax (HE160) / Chain 0 : CH 50 (U-NII-1)



802.11ax (HE160) / Chain 0 : CH 50 (U-NII-2A)



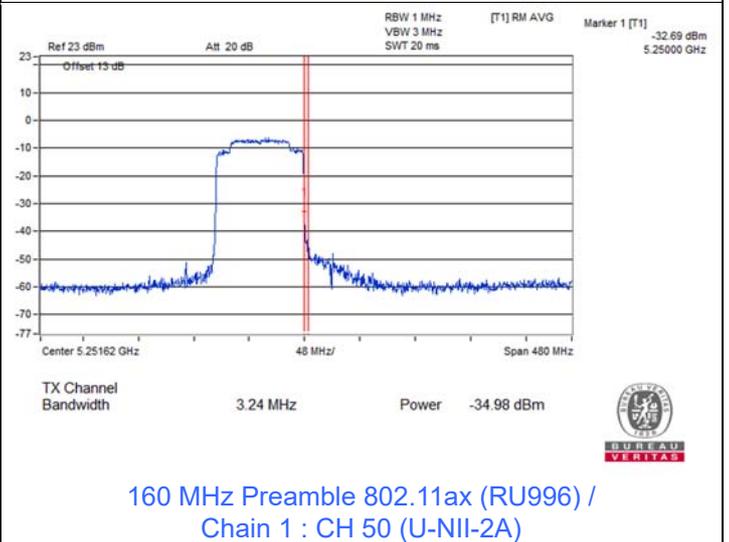
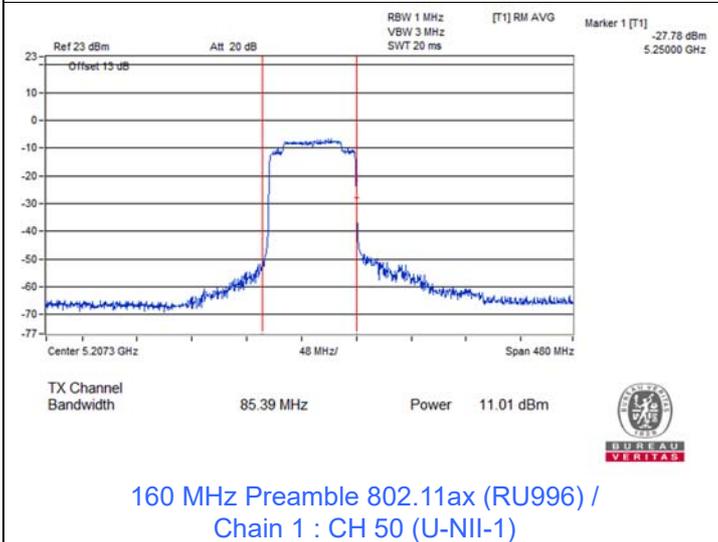
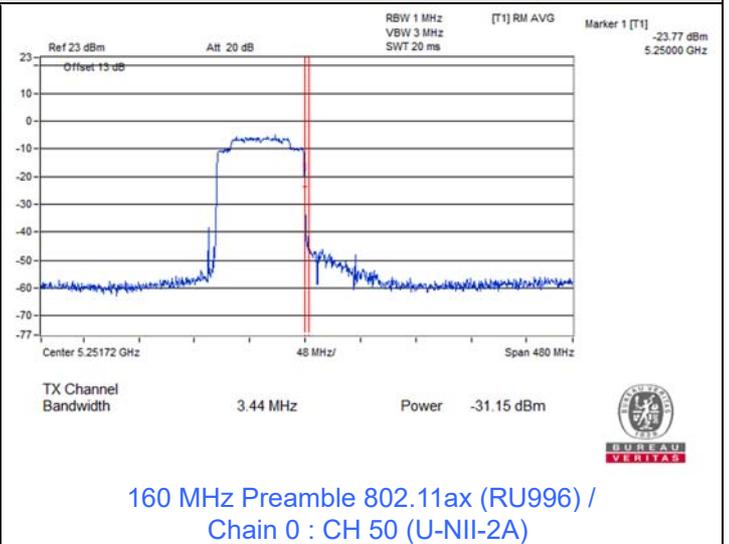
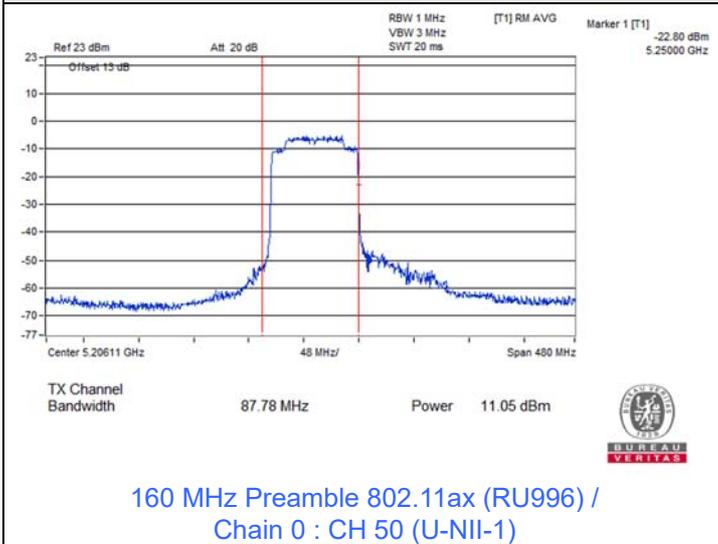
802.11ax (HE160) / Chain 1 : CH 50 (U-NII-1)



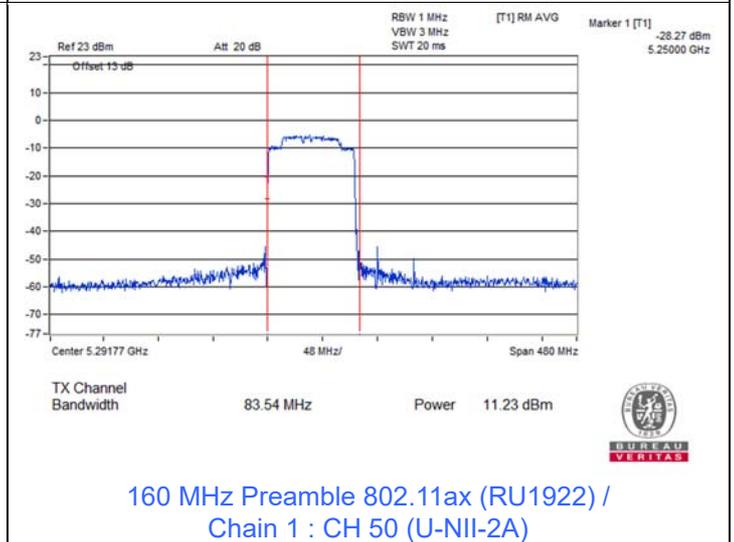
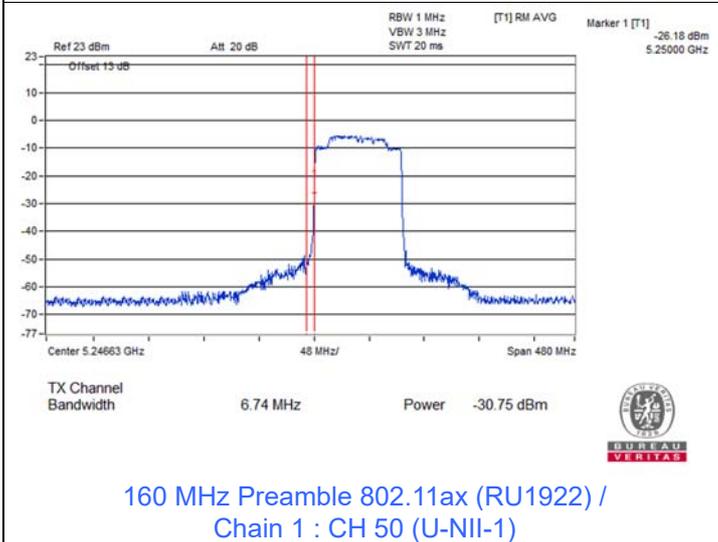
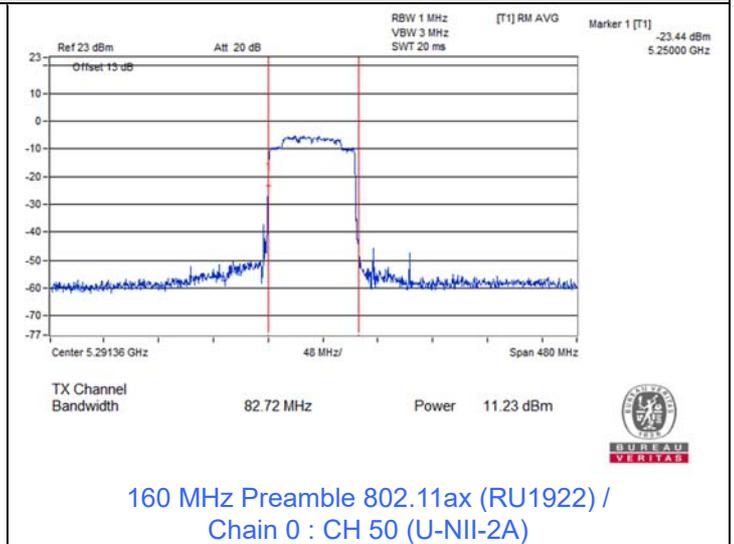
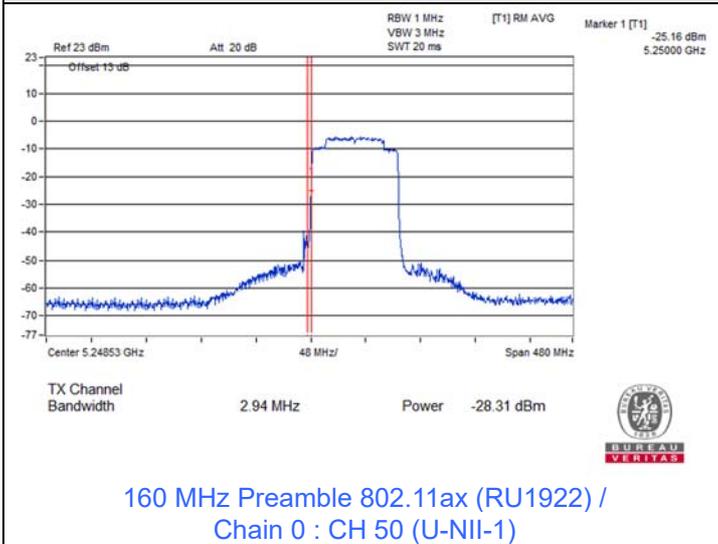
802.11ax (HE160) / Chain 1 : CH 50 (U-NII-2A)



Spectrum Plot for channel straddling



Spectrum Plot for channel straddling



7.3 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Vincent Huang
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1TX_Chain 0

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	-1.72	0.09	-1.63	11.00	Pass
40	5200	-1.99	0.09	-1.90	11.00	Pass
48	5240	-1.76	0.09	-1.67	11.00	Pass
52	5260	-1.97	0.09	-1.88	11.00	Pass
60	5300	-1.76	0.09	-1.67	11.00	Pass
64	5320	-1.94	0.09	-1.85	11.00	Pass
100	5500	-2.00	0.09	-1.91	11.00	Pass
116	5580	-1.83	0.09	-1.74	11.00	Pass
140	5700	-1.65	0.09	-1.56	11.00	Pass
144 (U-NII-2C)	5720	-1.65	0.09	-1.56	11.00	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.21 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 3.69 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 3.34 dBi < 6 dBi, so the power density limit shall not be reduced.

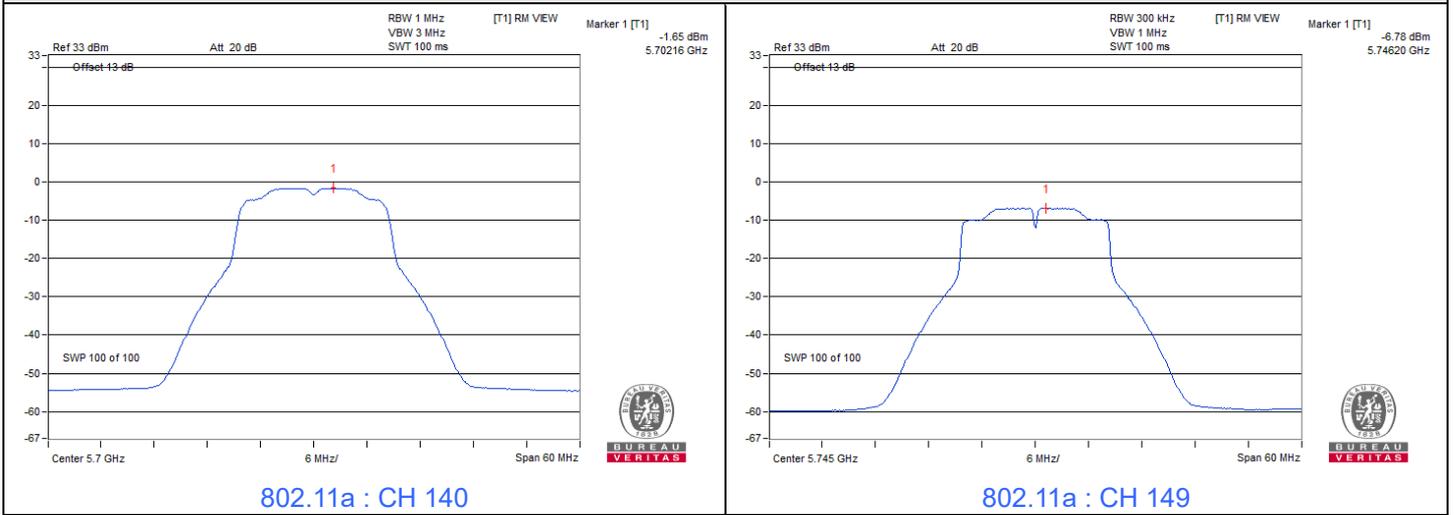
802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	-8.05	0.09	-5.74	30	Pass
149	5745	-6.78	0.09	-4.47	30	Pass
157	5785	-7.03	0.09	-4.72	30	Pass
165	5825	-7.06	0.09	-4.75	30	Pass

Note: For U-NII-3, the antenna gain is 1.29 dBi < 6 dBi, so the power density limit shall not be reduced.



Spectrum Plot of Maximum Value



1TX_Chain 1

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	-1.65	0.09	-1.56	11.00	Pass
40	5200	-1.86	0.09	-1.77	11.00	Pass
48	5240	-1.75	0.09	-1.66	11.00	Pass
52	5260	-1.70	0.09	-1.61	11.00	Pass
60	5300	-1.66	0.09	-1.57	11.00	Pass
64	5320	-1.89	0.09	-1.80	11.00	Pass
100	5500	-1.87	0.09	-1.78	11.00	Pass
116	5580	-1.71	0.09	-1.62	11.00	Pass
140	5700	-1.41	0.09	-1.32	11.00	Pass
144 (U-NII-2C)	5720	-1.53	0.09	-1.44	11.00	Pass

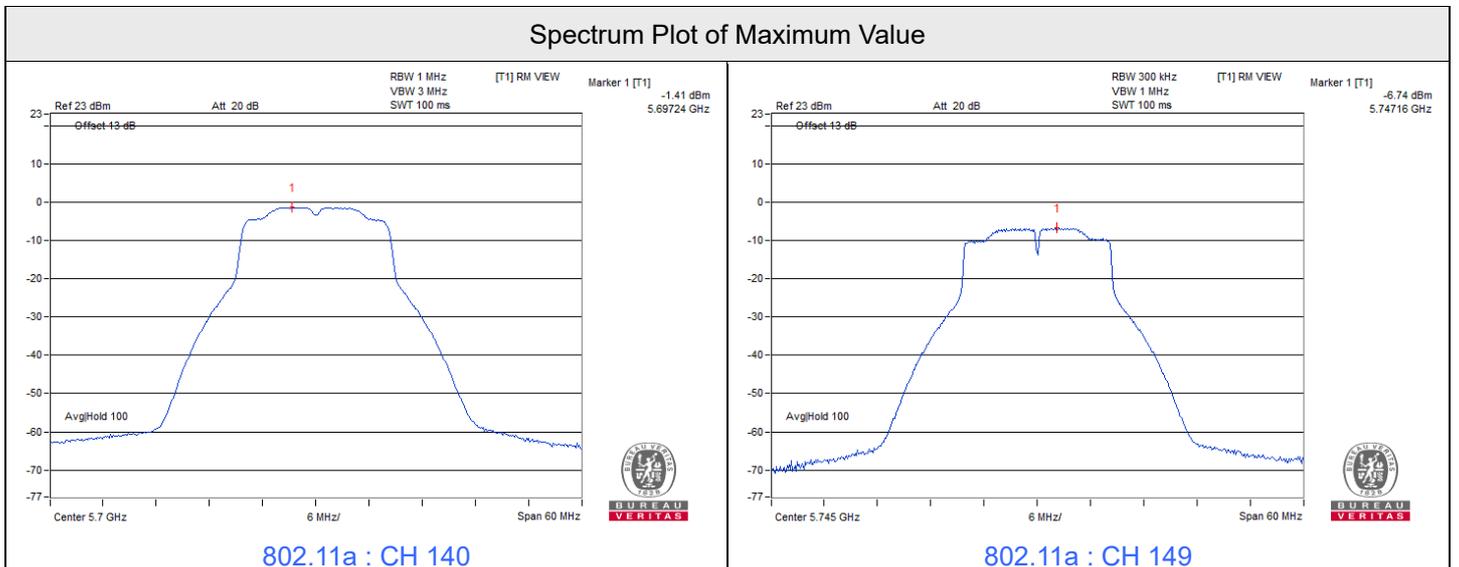
Notes:

1. For U-NII-1, the antenna gain is 2.18 dBi < 6dBi, so the power density limit shall not be reduced.
2. For U-NII-2A, the antenna gain is 1.01 dBi < 6 dBi, so the power density limit shall not be reduced.
3. For U-NII-2C, the antenna gain is 2.19 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11a

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
144 (U-NII-3)	5720	-7.84	0.09	-5.53	30	Pass
149	5745	-6.74	0.09	-4.43	30	Pass
157	5785	-6.94	0.09	-4.63	30	Pass
165	5825	-6.92	0.09	-4.61	30	Pass

Note: For U-NII-3, the antenna gain is 2.29 dBi < 6 dBi, so the power density limit shall not be reduced.



2TX
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	-2.49	-2.52	0.51	11.00	Pass
40	5200	-2.57	-2.64	0.41	11.00	Pass
48	5240	-2.73	-2.59	0.35	11.00	Pass
52	5260	-2.48	-2.49	0.53	11.00	Pass
60	5300	-2.60	-2.39	0.52	11.00	Pass
64	5320	-2.68	-2.53	0.41	11.00	Pass
100	5500	-2.30	-2.46	0.63	11.00	Pass
116	5580	-2.58	-2.35	0.55	11.00	Pass
140	5700	-2.42	-2.51	0.55	11.00	Pass
144 (U-NII-2C)	5720	-2.46	-2.45	0.56	11.00	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 5.21 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.46 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.79 dBi < 6 dBi, so the power density limit shall not be reduced.

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	-8.85	-8.99	-5.91	-3.69	30	Pass
149	5745	-7.64	-7.78	-4.7	-2.48	30	Pass
157	5785	-7.68	-7.94	-4.8	-2.58	30	Pass
165	5825	-7.91	-7.79	-4.84	-2.62	30	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 4.81 dBi < 6 dBi, so the power density limit shall not be reduced.

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	-5.78	-5.65	-2.70	11.00	Pass
46	5230	-5.83	-5.78	-2.79	11.00	Pass
54	5270	-5.84	-5.50	-2.66	11.00	Pass
62	5310	-5.72	-5.57	-2.63	11.00	Pass
102	5510	-5.76	-5.87	-2.80	11.00	Pass
110	5550	-5.82	-5.81	-2.80	11.00	Pass
134	5670	-5.75	-5.84	-2.78	11.00	Pass
142 (U-NII-2C)	5710	-5.54	-5.61	-2.56	11.00	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 5.21 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.46 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.79 dBi < 6 dBi, so the power density limit shall not be reduced.

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	-14.01	-14.03	-11.01	-8.79	30	Pass
151	5755	-10.85	-11.01	-7.92	-5.70	30	Pass
159	5795	-11.11	-11.00	-8.04	-5.82	30	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 4.81 dBi < 6 dBi, so the power density limit shall not be reduced.

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	-8.61	-8.58	-5.58	11.00	Pass
58	5290	-8.34	-8.56	-5.44	11.00	Pass
106	5530	-8.66	-8.61	-5.62	11.00	Pass
122	5610	-8.70	-8.60	-5.64	11.00	Pass
138 (U-NII-2C)	5690	-8.79	-8.60	-5.68	11.00	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 5.21 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.46 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.79 dBi < 6 dBi, so the power density limit shall not be reduced.

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	-18.26	-17.98	-15.11	-12.89	30	Pass
155	5775	-13.94	-13.93	-10.92	-8.70	30	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 4.81 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE160)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
50 (U-NII-1)	5250	-11.15	-11.24	-8.18	11.00	Pass
50 (U-NII-2A)	5250	-11.02	-10.96	-7.98	11.00	Pass
114	5570	-10.73	-10.97	-7.84	11.00	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 5.21 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.46 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.79 dBi < 6 dBi, so the power density limit shall not be reduced.

20 MHz Preamble 802.11ax (RU26)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	5.71	5.59	8.66	11.00	Pass
64	5320	5.58	5.80	8.70	11.00	Pass
100	5500	5.53	5.37	8.46	11.00	Pass
140	5700	5.55	5.65	8.61	11.00	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 5.21 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.46 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.79 dBi < 6 dBi, so the power density limit shall not be reduced.

20 MHz Preamble 802.11ax (RU26)

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				
149	5745	0.42	0.50	3.47	5.97	30	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 4.81 dBi < 6 dBi, so the power density limit shall not be reduced.

20 MHz Preamble 802.11ax (RU52)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	2.75	2.75	5.76	11.00	Pass
64	5320	3.15	3.20	6.19	11.00	Pass
100	5500	2.69	2.64	5.68	11.00	Pass
140	5700	2.74	2.85	5.81	11.00	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 5.21 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.46 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.79 dBi < 6 dBi, so the power density limit shall not be reduced.

20 MHz Preamble 802.11ax (RU52)

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				
149	5745	-2.30	-2.27	0.73	2.95	30	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 4.81 dBi < 6 dBi, so the power density limit shall not be reduced.

20 MHz Preamble 802.11ax (RU106)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	0.04	0.10	3.08	11.00	Pass
64	5320	0.24	0.25	3.26	11.00	Pass
100	5500	0.06	0.10	3.09	11.00	Pass
140	5700	0.23	-0.08	3.09	11.00	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 5.21 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.46 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.79 dBi < 6 dBi, so the power density limit shall not be reduced.

20 MHz Preamble 802.11ax (RU106)

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				
149	5745	-5.19	-5.10	-2.13	0.09	30	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 4.81 dBi < 6 dBi, so the power density limit shall not be reduced.

40 MHz Preamble 802.11ax (RU242)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
38	5190	-2.54	-2.38	0.55	11.00	Pass
62	5310	-2.58	-2.40	0.52	11.00	Pass
102	5510	-2.51	-2.70	0.41	11.00	Pass
134	5670	-2.73	-2.81	0.24	11.00	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 5.21 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.46 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.79 dBi < 6 dBi, so the power density limit shall not be reduced.

40 MHz Preamble 802.11ax (RU242)

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				
151	5755	-7.83	-7.83	-4.82	-2.60	30	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 4.81 dBi < 6 dBi, so the power density limit shall not be reduced.

80 MHz Preamble 802.11ax (RU484)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
42	5210	-5.86	-5.73	-2.78	11.00	Pass
58	5290	-5.90	-5.93	-2.90	11.00	Pass
106	5530	-5.59	-5.83	-2.70	11.00	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-1, the directional gain is 5.21 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.46 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.79 dBi < 6 dBi, so the power density limit shall not be reduced.

80 MHz Preamble 802.11ax (RU484)

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				
155	5775	-10.81	-11.14	-7.96	-5.74	30	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 4.81 dBi < 6 dBi, so the power density limit shall not be reduced.

160 MHz Preamble 802.11ax (RU996)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
50 (U-NII-1)	5250	-8.79	-8.69	-5.73	11.00	Pass
50 (U-NII-2A)	5250	-29.84	-31.06	-27.40	11.00	Pass
114	5570	-8.72	-8.85	-5.77	11.00	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 5.21 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.46 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.79 dBi < 6 dBi, so the power density limit shall not be reduced.

160 MHz Preamble 802.11ax (RU996/S67)

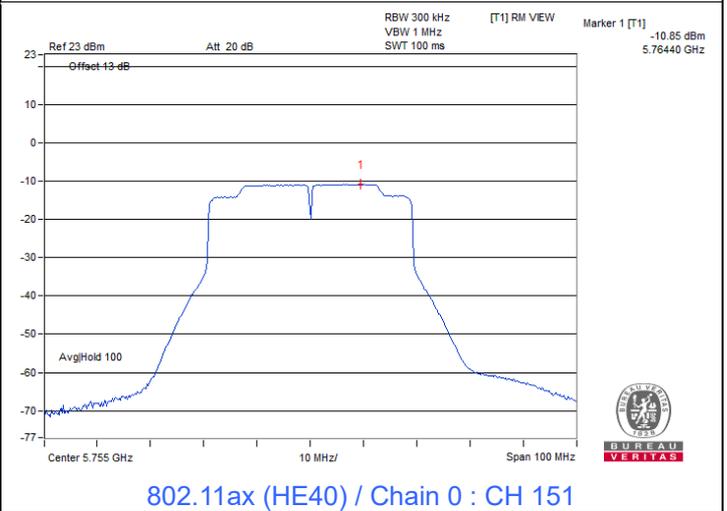
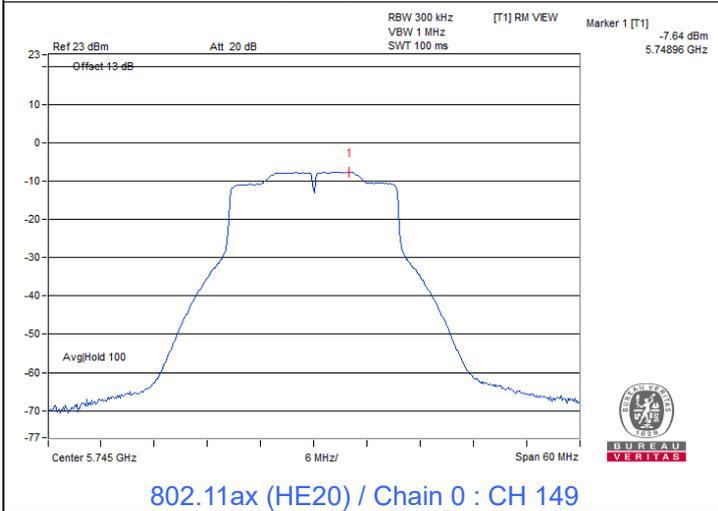
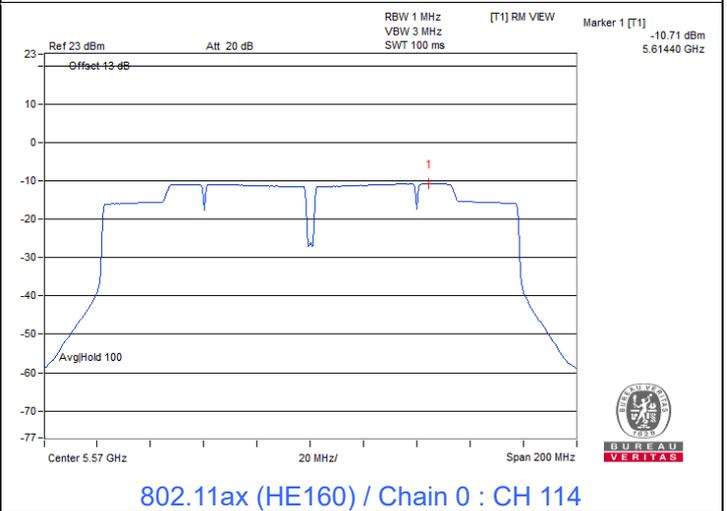
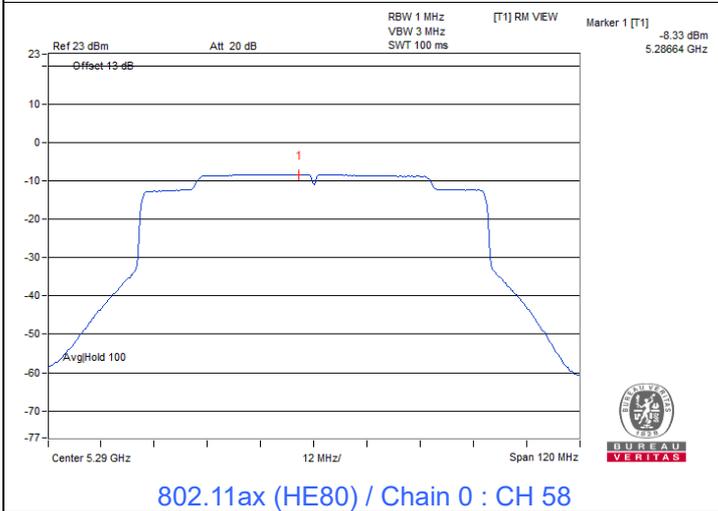
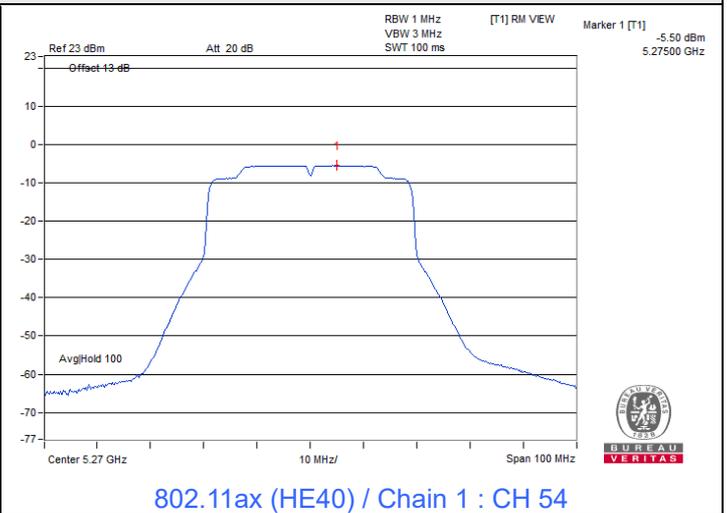
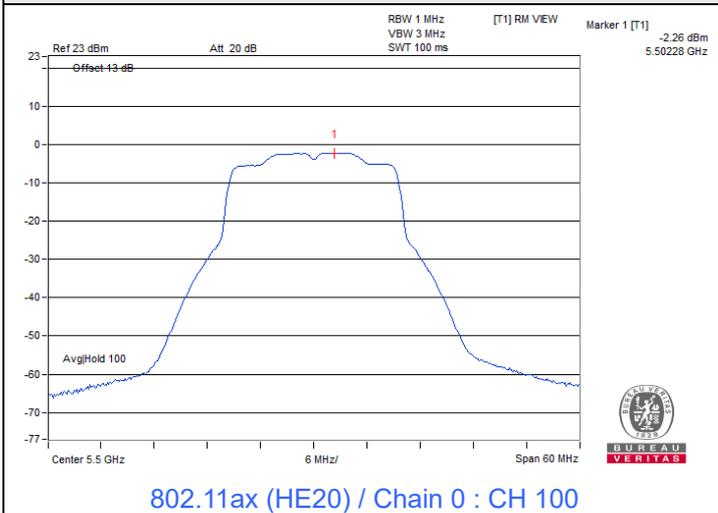
Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
50 (U-NII-1)	5250	-27.28	-29.20	-25.12	11.00	Pass
50 (U-NII-2A)	5250	-8.44	-8.32	-5.37	11.00	Pass
114	5570	-8.39	-8.48	-5.42	11.00	Pass

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 5.21 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.46 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.79 dBi < 6 dBi, so the power density limit shall not be reduced.

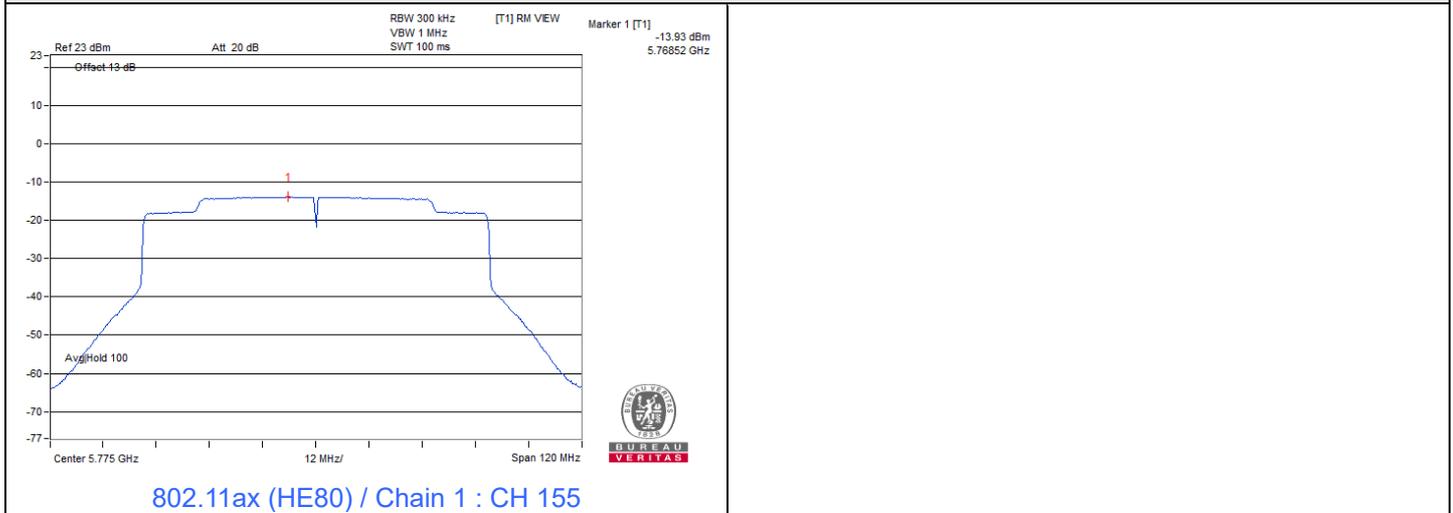


Spectrum Plot of Maximum Value



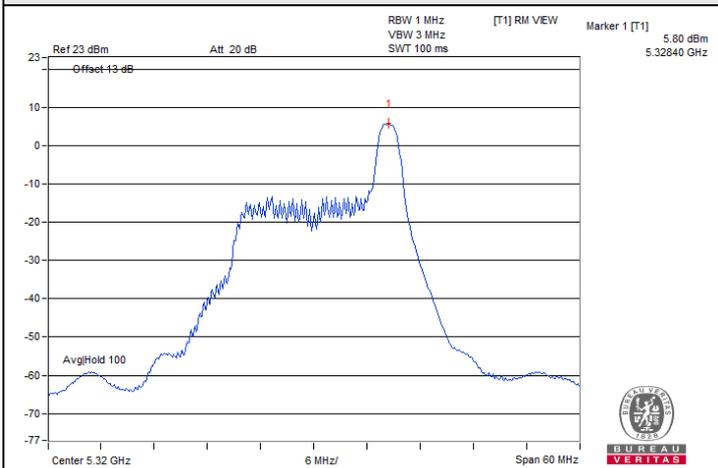


Spectrum Plot of Maximum Value

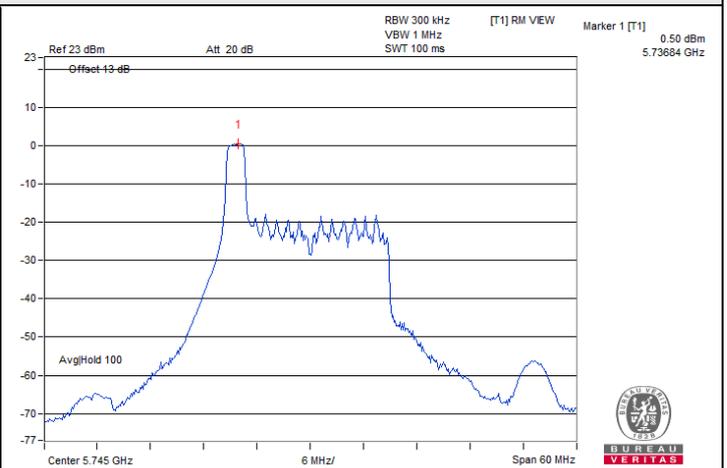




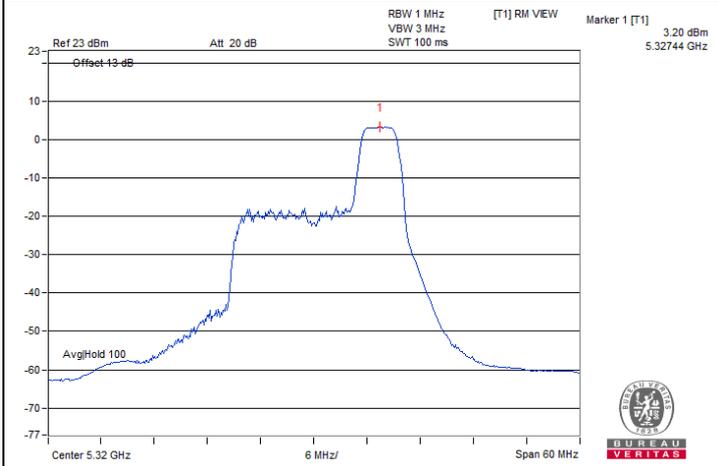
Spectrum Plot of Maximum Value



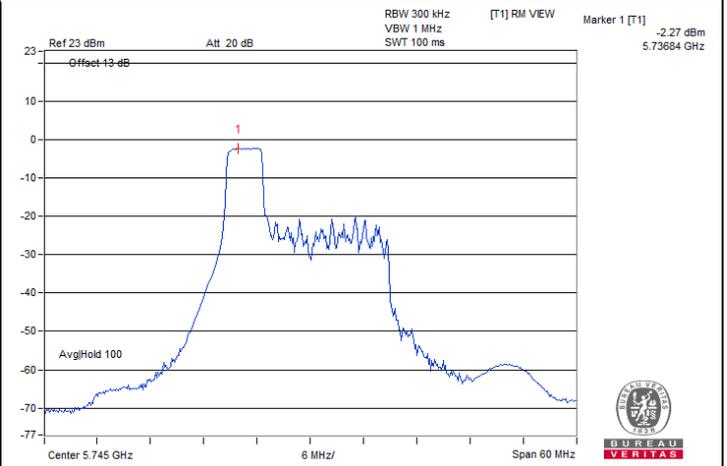
20 MHz Preamble 802.11ax (RU26) / Chain 1 : CH 64



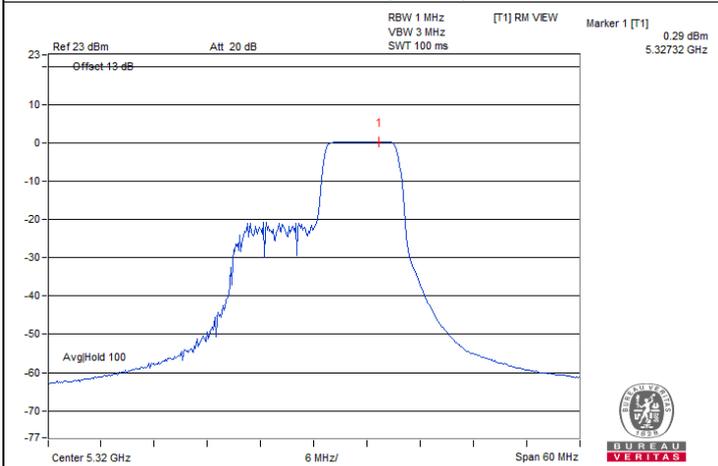
20 MHz Preamble 802.11ax (RU26) / Chain 1 : CH 149



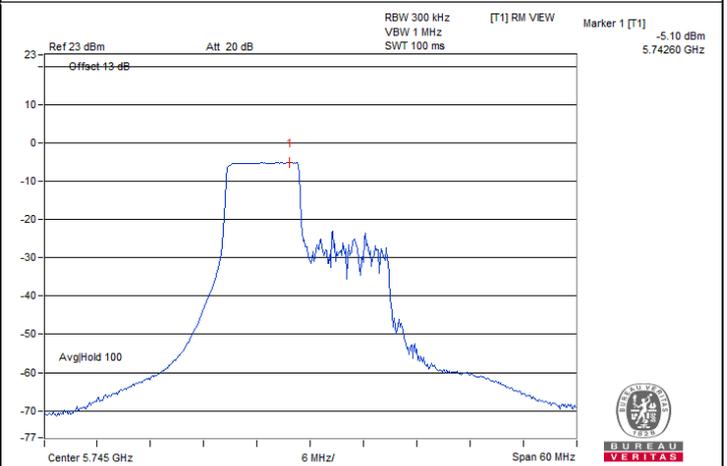
20 MHz Preamble 802.11ax (RU52) / Chain 1 : CH 64



20 MHz Preamble 802.11ax (RU52) / Chain 1 : CH 149



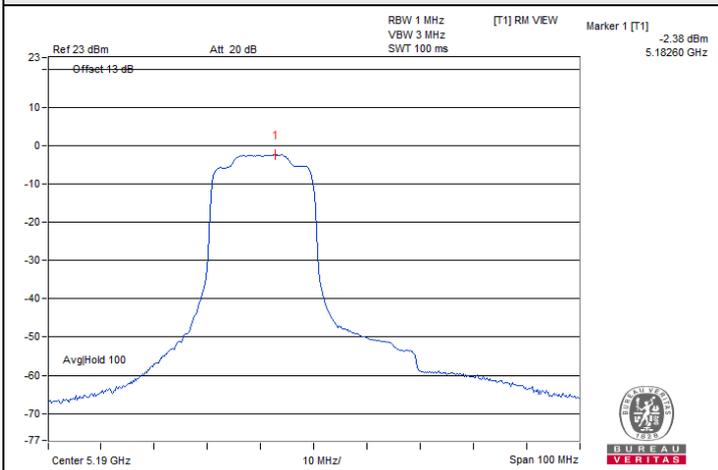
20 MHz Preamble 802.11ax (RU106) / Chain 1 : CH 64



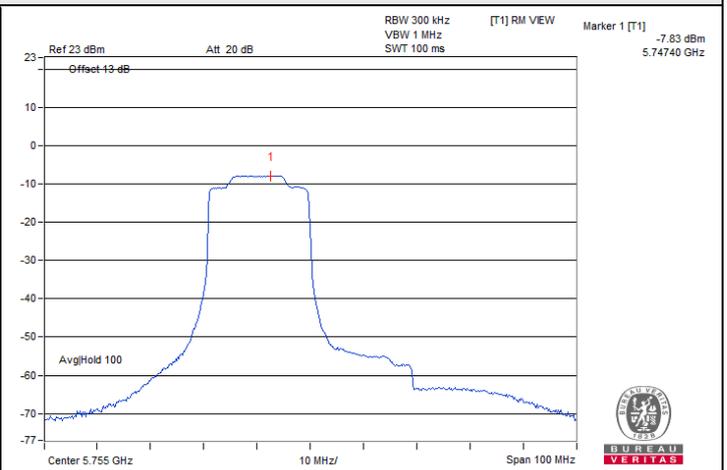
20 MHz Preamble 802.11ax (RU106) / Chain 1 : CH 149



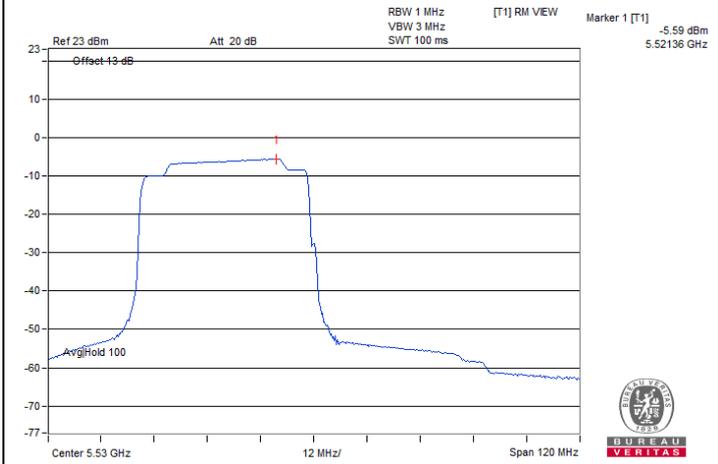
Spectrum Plot of Maximum Value



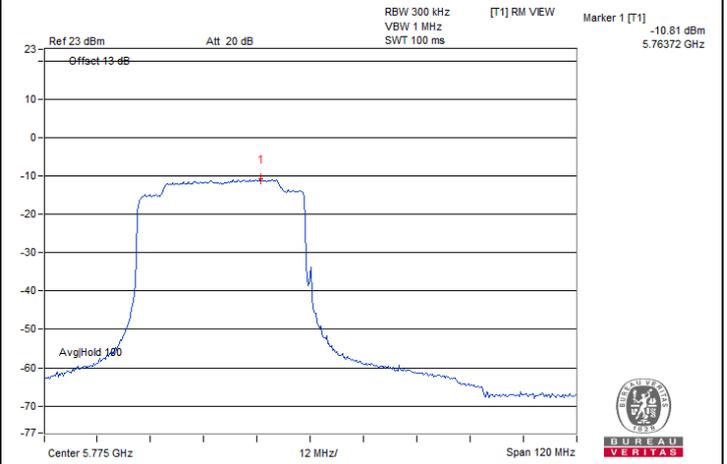
40 MHz Preamble 802.11ax (RU242) / Chain 1 : CH 38



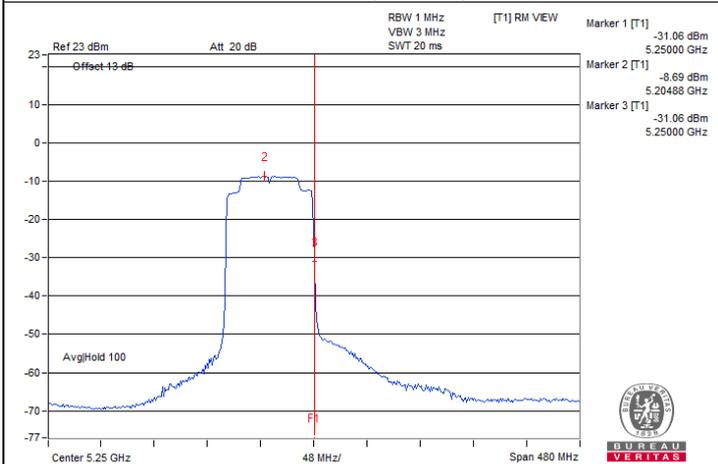
40 MHz Preamble 802.11ax (RU242) / Chain 0 : CH 151



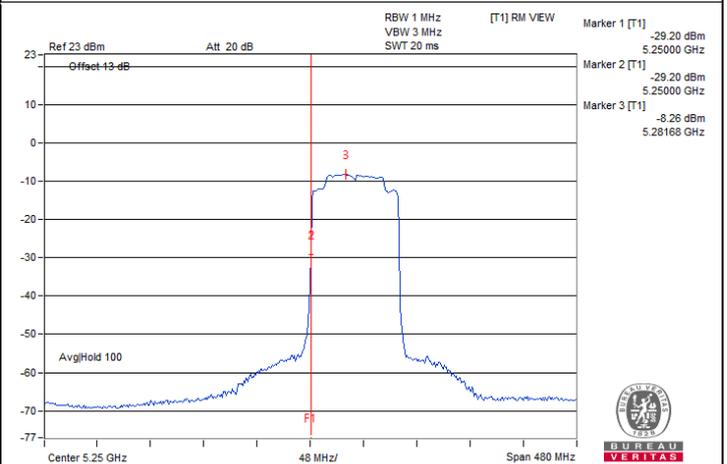
80 MHz Preamble 802.11ax (RU484) / Chain 0 : CH 106



80 MHz Preamble 802.11ax (RU484) / Chain 0 : CH 155



160 MHz Preamble 802.11ax (RU996) / Chain 1 : CH 50 (U-NII-1)



160 MHz Preamble 802.11ax (RU996/S67) / Chain 1 : CH 50 (U-NII-2A)

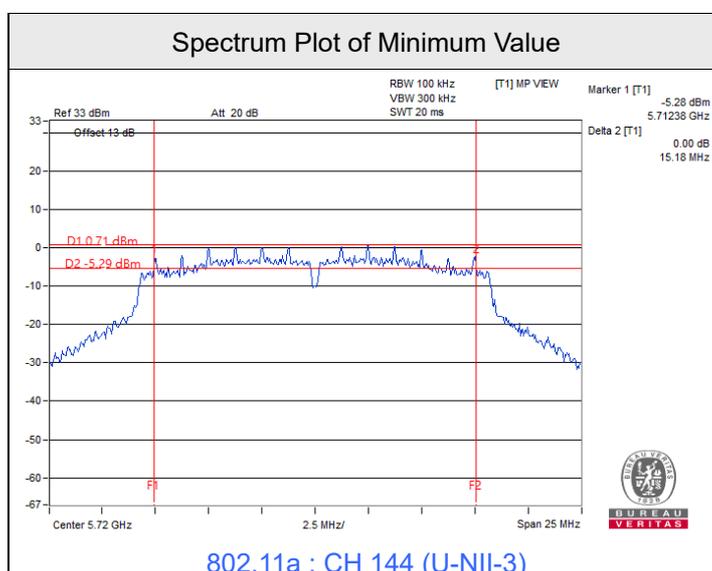
7.4 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Vincent Huang
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1TX_Chain 0

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	2.56	0.5	Pass
149	5745	15.19	0.5	Pass
157	5785	15.19	0.5	Pass
165	5825	15.16	0.5	Pass

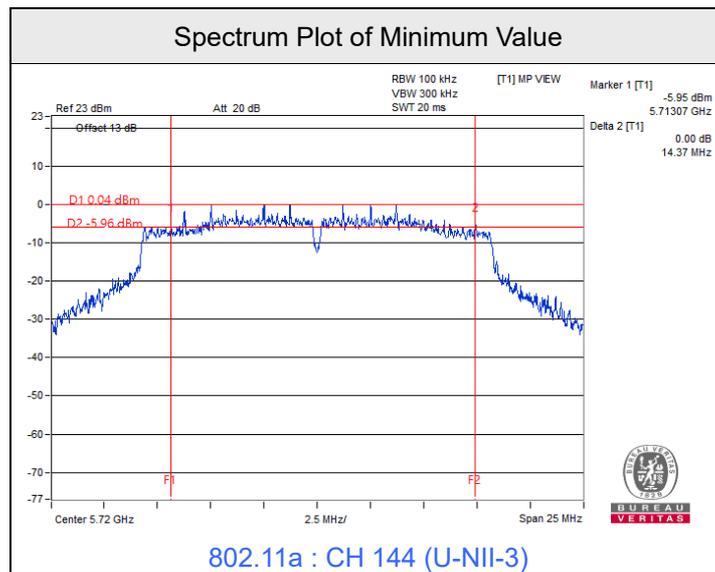


Note: For U-NII-3 straddle channel = Marker 1 + Delta 2 - 5725 MHz

1TX_Chain 1

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
144 (U-NII-3)	5720	2.44	0.5	Pass
149	5745	15.08	0.5	Pass
157	5785	15.07	0.5	Pass
165	5825	15.03	0.5	Pass



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

2TX
802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	3.50	4.07	0.5	Pass
149	5745	17.04	17.98	0.5	Pass
157	5785	16.01	15.53	0.5	Pass
165	5825	17.51	17.51	0.5	Pass

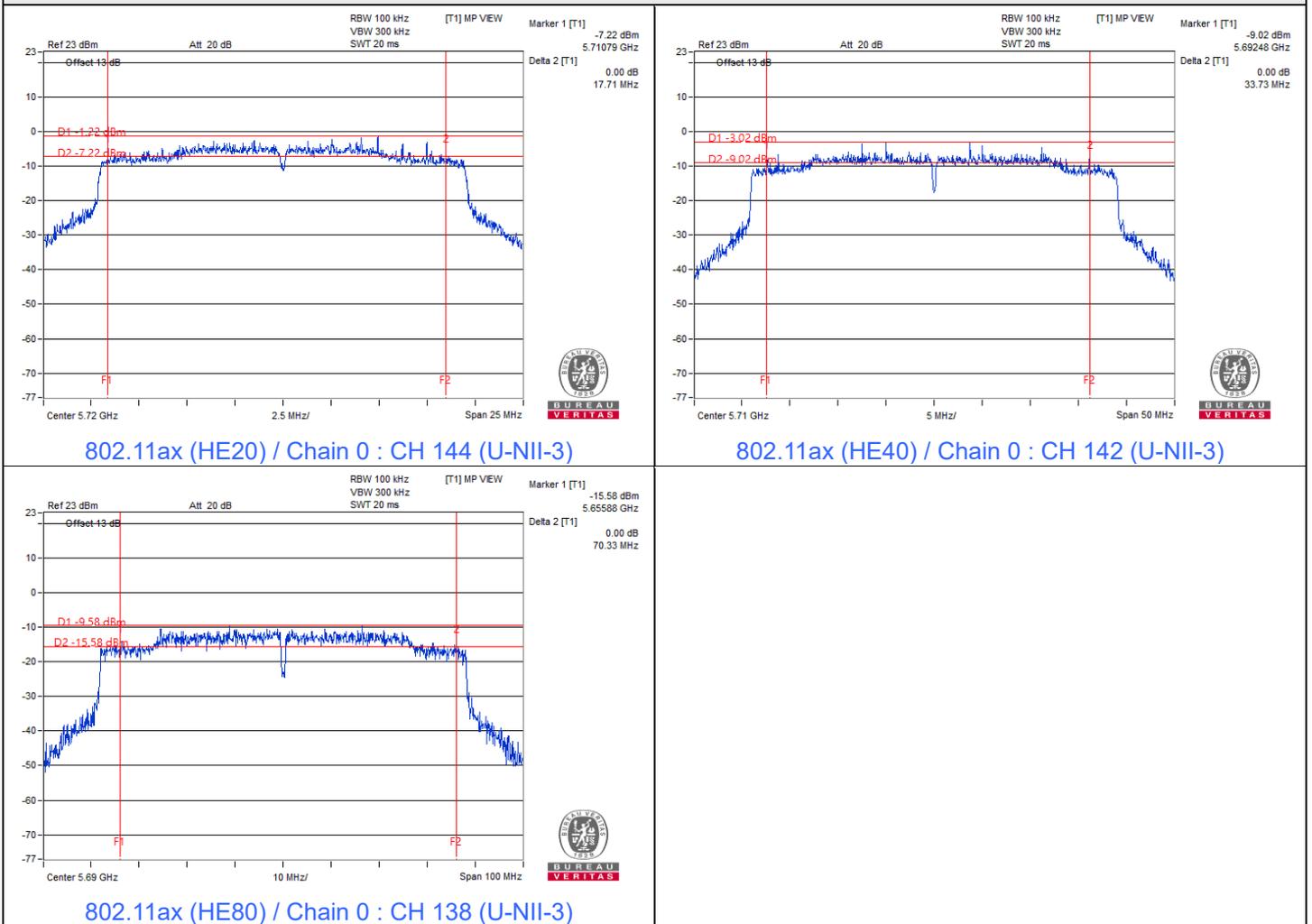
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
142 (U-NII-3)	5710	1.21	3.40	0.5	Pass
151	5755	34.56	33.68	0.5	Pass
159	5795	29.39	35.33	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	1.21	2.93	0.5	Pass
155	5775	54.75	59.15	0.5	Pass

Spectrum Plot of Minimum Value

**Notes:**

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

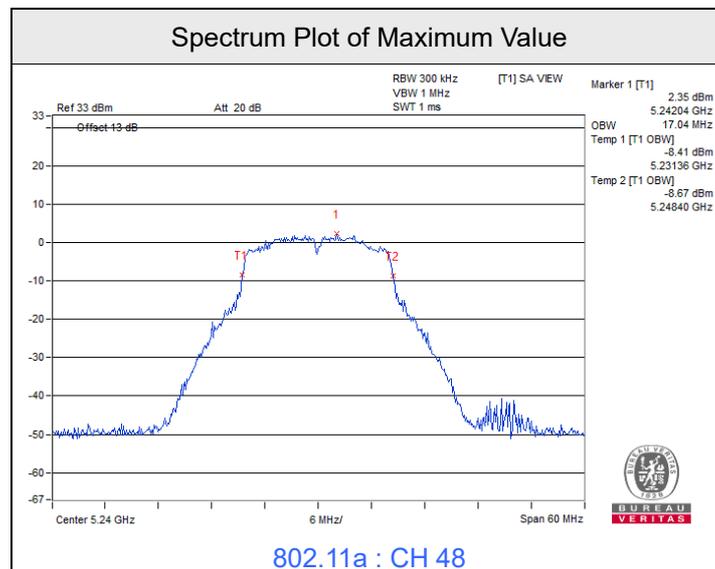
7.5 Occupied Bandwidth

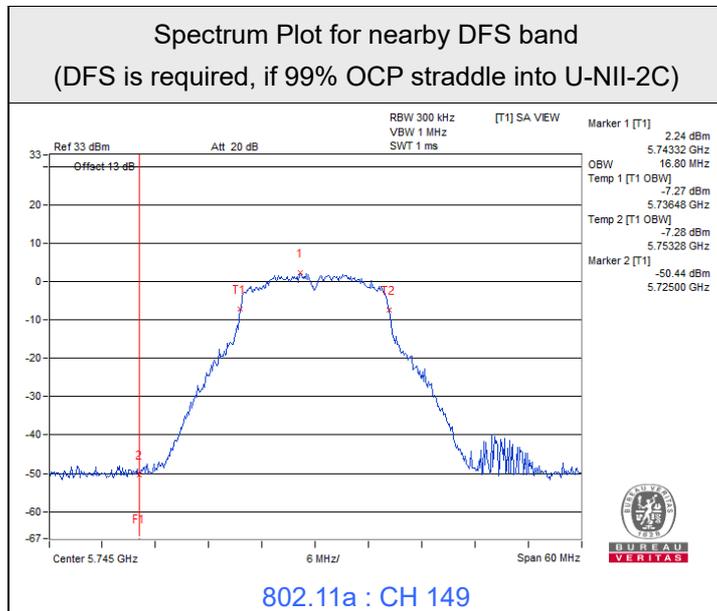
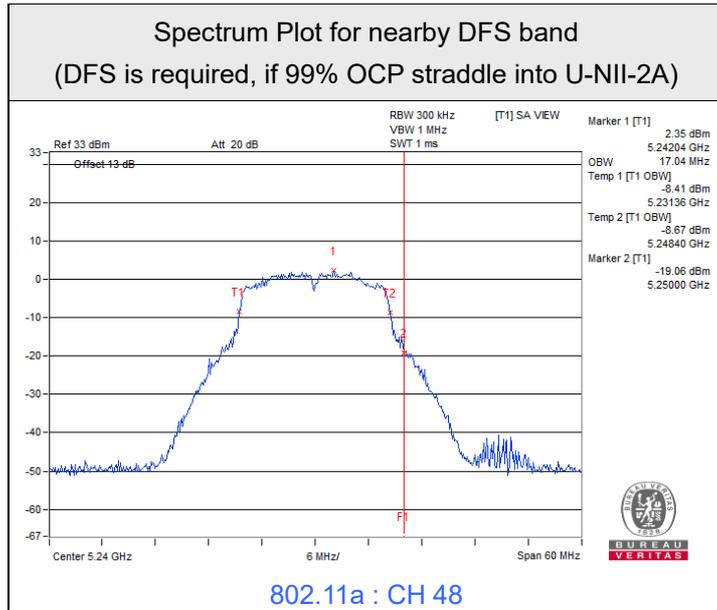
Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Vincent Huang
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1TX_Chain 0

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	16.80
40	5200	16.92
48	5240	17.04
52	5260	16.92
60	5300	16.92
64	5320	16.92
100	5500	16.92
116	5580	16.92
140	5700	16.92
144 (U-NII-2C)	5720	13.52
144 (U-NII-3)	5720	3.40
149	5745	16.80
157	5785	16.92
165	5825	17.04

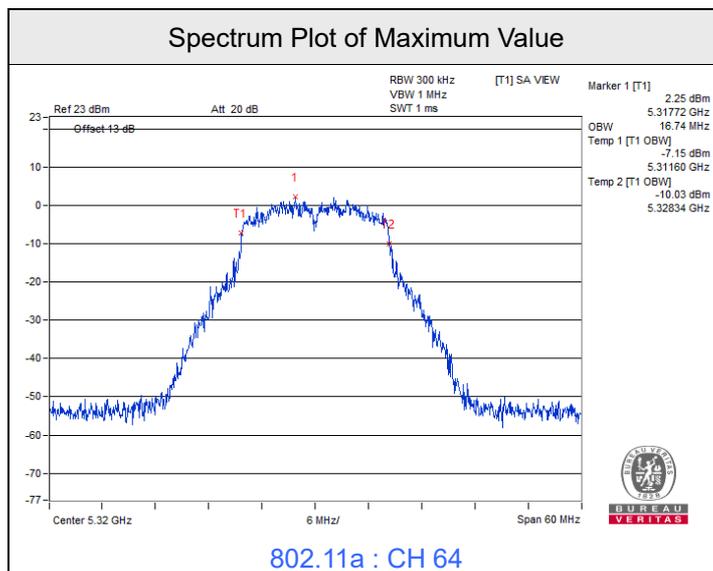


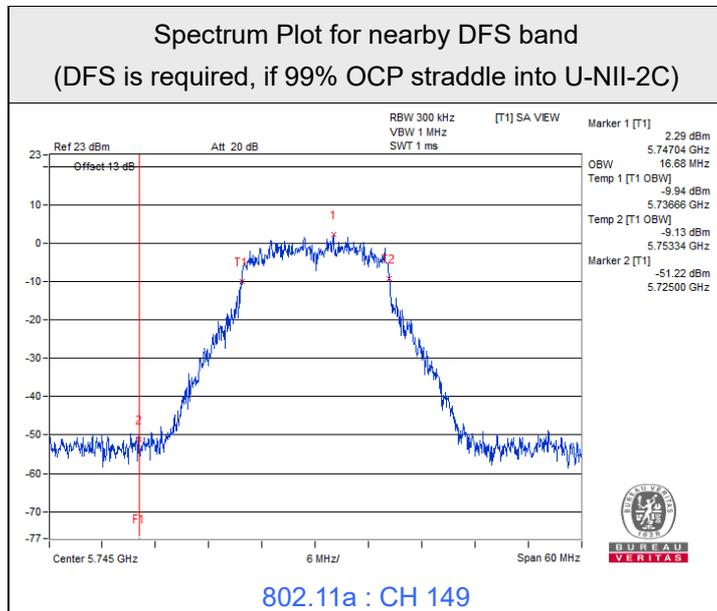
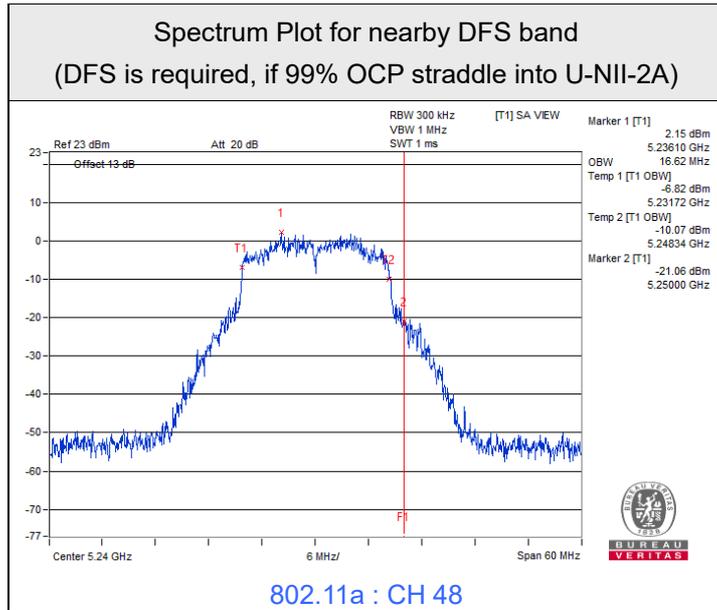


1TX_Chain 1

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	16.62
40	5200	16.68
48	5240	16.62
52	5260	16.68
60	5300	16.68
64	5320	16.74
100	5500	16.68
116	5580	16.62
140	5700	16.68
144 (U-NII-2C)	5720	13.40
144 (U-NII-3)	5720	3.28
149	5745	16.68
157	5785	16.74
165	5825	16.74





2TX
802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.90	18.90
40	5200	18.90	18.90
48	5240	18.90	18.84
52	5260	19.02	18.84
60	5300	18.84	18.96
64	5320	18.90	18.96
100	5500	18.96	18.90
116	5580	18.96	18.96
140	5700	18.84	18.90
144 (U-NII-2C)	5720	14.48	14.54
144 (U-NII-3)	5720	4.36	4.42
149	5745	18.84	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	37.44	37.68
46	5230	37.56	37.68
54	5270	37.56	37.56
62	5310	37.80	37.68
102	5510	37.68	37.56
110	5550	37.56	37.56
134	5670	37.68	37.56
142 (U-NII-2C)	5710	33.84	33.84
142 (U-NII-3)	5710	3.72	3.72
151	5755	37.56	37.44
159	5795	37.44	37.56

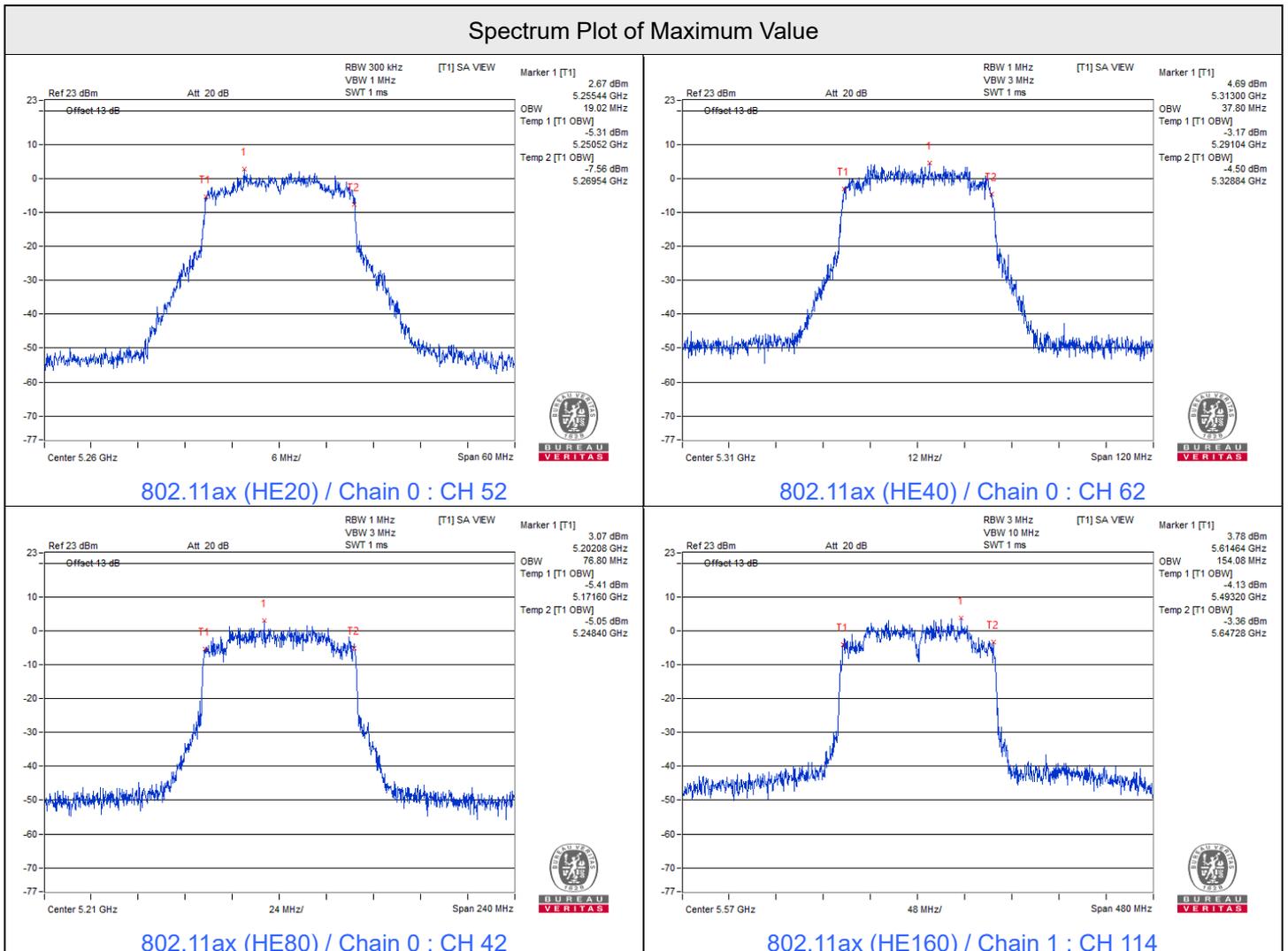


802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	76.80	76.80
58	5290	76.32	76.32
106	5530	76.56	76.56
122	5610	76.56	76.56
138 (U-NII-2C)	5690	72.68	72.68
138 (U-NII-3)	5690	2.44	2.44
155	5775	76.80	76.80

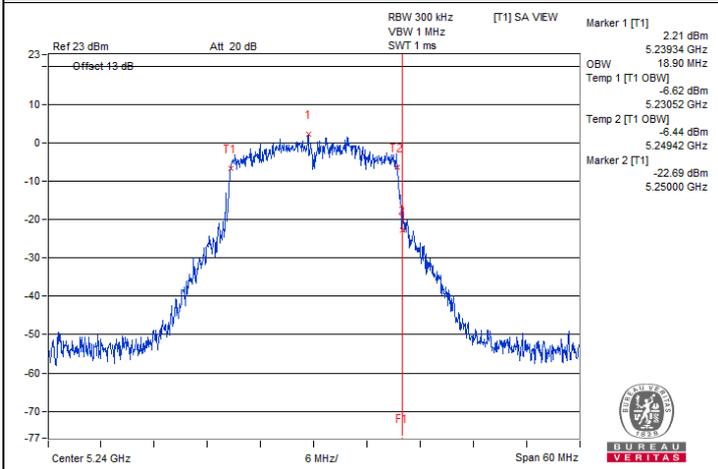
802.11ax (HE160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	76.32	76.80
50 (U-NII-2A)	5250	76.32	76.80
114	5570	153.60	154.08

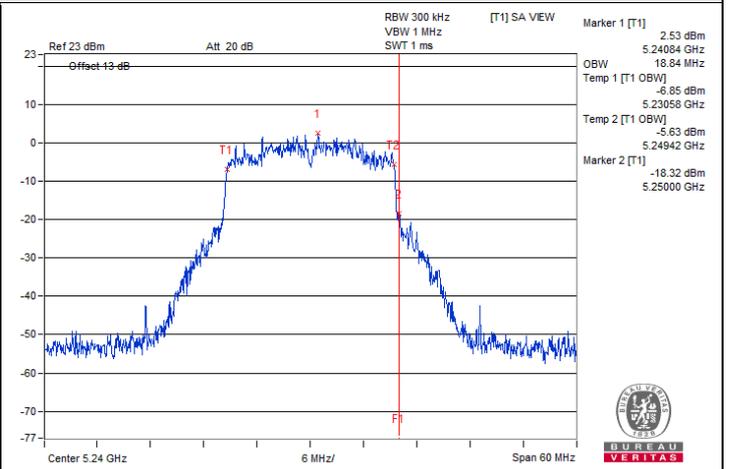




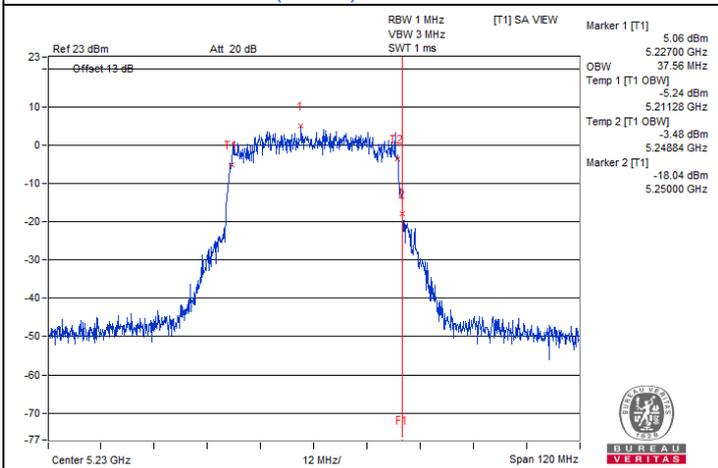
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



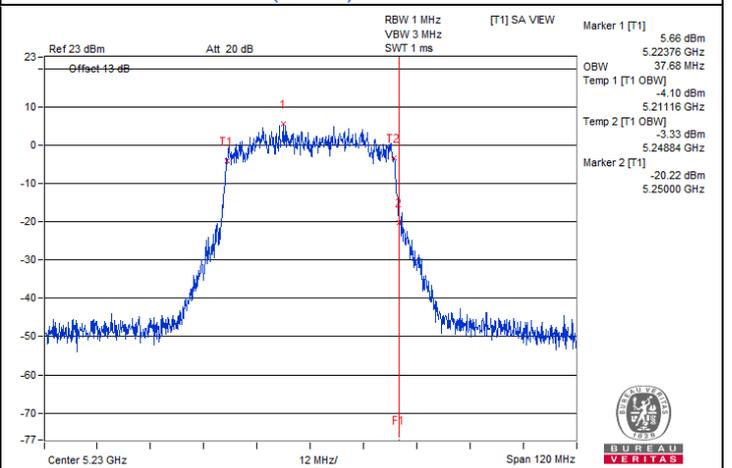
802.11ax (HE20) / Chain 0 : CH 48



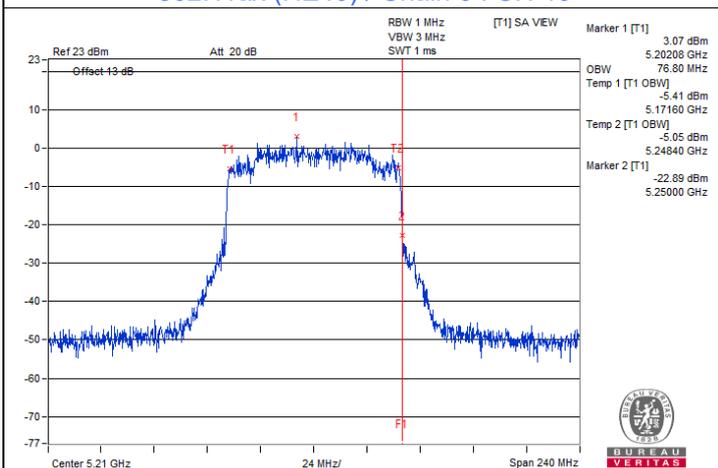
802.11ax (HE20) / Chain 1 : CH 48



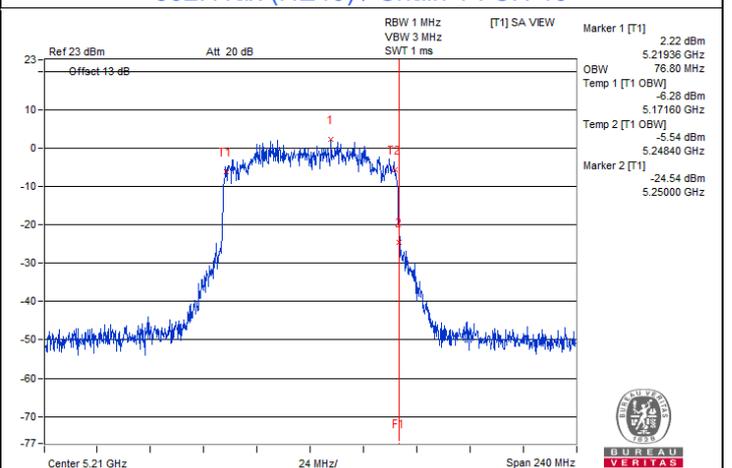
802.11ax (HE40) / Chain 0 : CH 46



802.11ax (HE40) / Chain 1 : CH 46

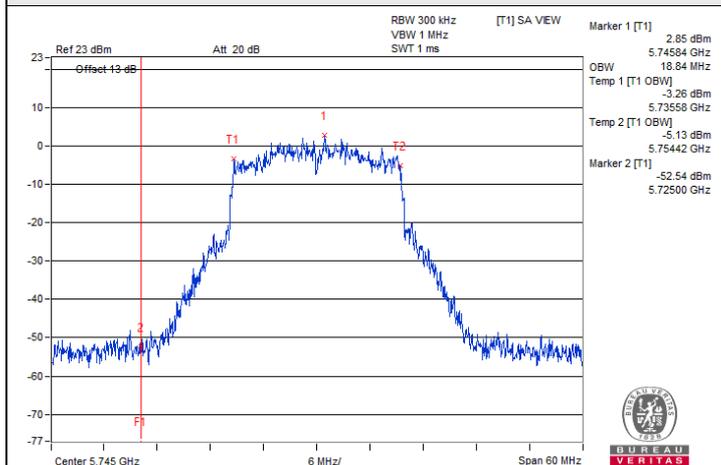


802.11ax (HE80) / Chain 0 : CH 42

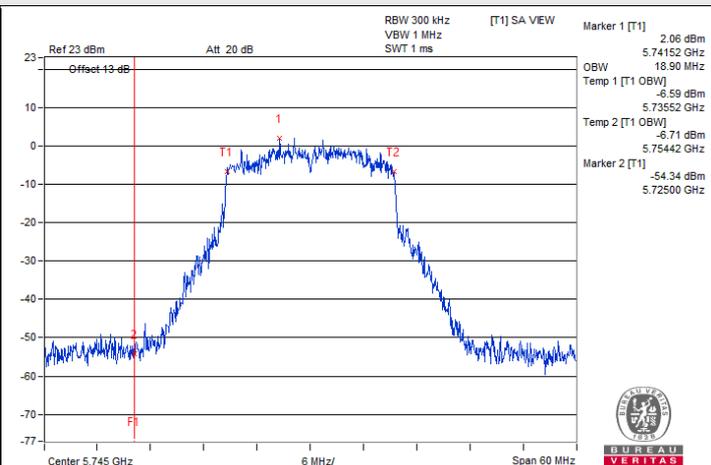


802.11ax (HE80) / Chain 1 : CH 42

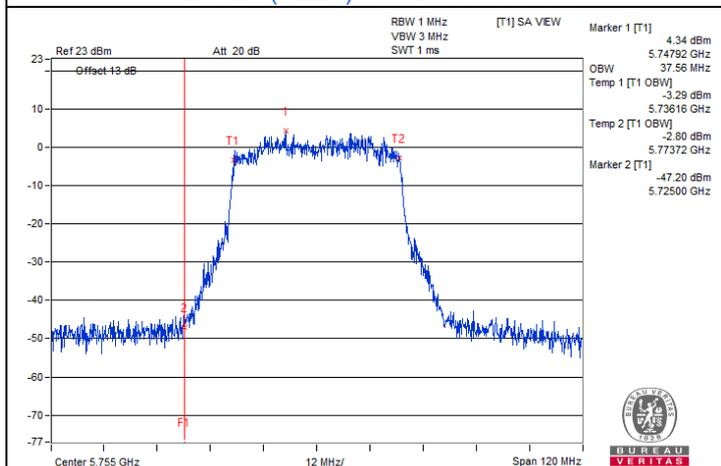
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



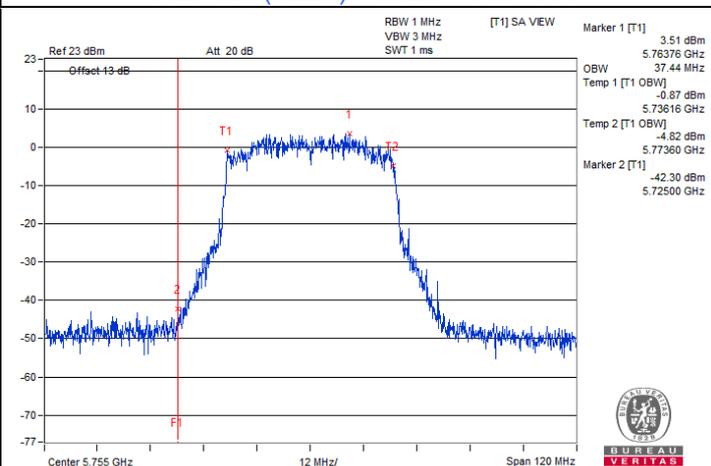
802.11ax (HE20) / Chain 0 : CH 149



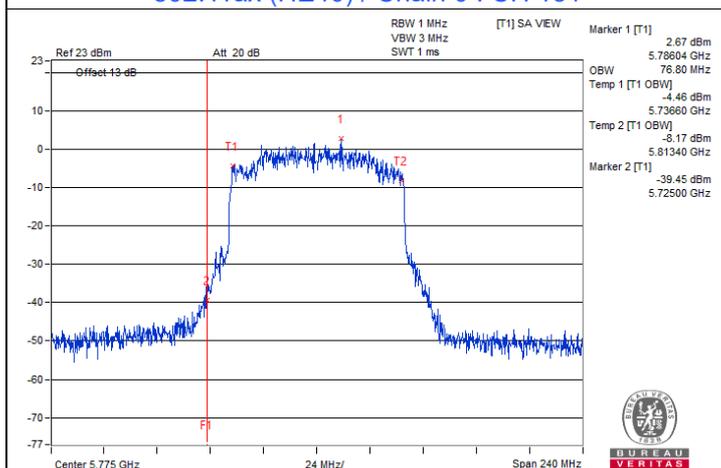
802.11ax (HE20) / Chain 1 : CH 149



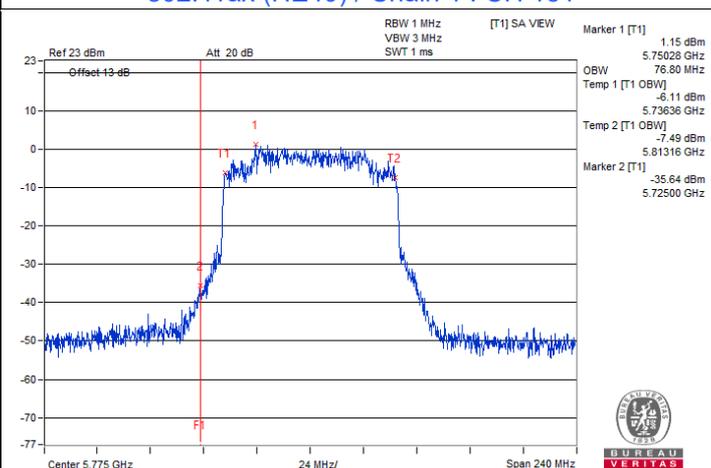
802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE40) / Chain 1 : CH 151



802.11ax (HE80) / Chain 0 : CH 155



802.11ax (HE80) / Chain 1 : CH 155

7.6 Frequency Stability

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Vincent Huang
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1TX_Chain 0

802.11a

Frequency Stability Versus Temperature									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result						
55	120	5180.0252	Pass	5180.0241	Pass	5180.0209	Pass	5180.0251	Pass
50	120	5180.0116	Pass	5180.0075	Pass	5180.0109	Pass	5180.0109	Pass
40	120	5180.0022	Pass	5180.0049	Pass	5180.0019	Pass	5180.0032	Pass
30	120	5180.0134	Pass	5180.0152	Pass	5180.0138	Pass	5180.0142	Pass
20	120	5179.9786	Pass	5179.9770	Pass	5179.9763	Pass	5179.9782	Pass
10	120	5180.0078	Pass	5180.0099	Pass	5180.0072	Pass	5180.0078	Pass
0	120	5179.9760	Pass	5179.9763	Pass	5179.9778	Pass	5179.9747	Pass
-10	120	5179.9763	Pass	5179.9773	Pass	5179.9768	Pass	5179.9797	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result						
20	138	5179.9729	Pass	5179.9749	Pass	5179.9716	Pass	5179.9710	Pass
	120	5179.9786	Pass	5179.9770	Pass	5179.9763	Pass	5179.9782	Pass
	102	5179.9691	Pass	5179.9700	Pass	5179.9701	Pass	5179.9699	Pass

1TX_Chain 1
802.11a

Frequency Stability Versus Temperature									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result						
55	120	5180.0252	Pass	5180.0241	Pass	5180.0209	Pass	5180.0251	Pass
50	120	5180.0116	Pass	5180.0075	Pass	5180.0109	Pass	5180.0109	Pass
40	120	5180.0022	Pass	5180.0049	Pass	5180.0019	Pass	5180.0032	Pass
30	120	5180.0134	Pass	5180.0152	Pass	5180.0138	Pass	5180.0142	Pass
20	120	5179.9786	Pass	5179.9770	Pass	5179.9763	Pass	5179.9782	Pass
10	120	5180.0078	Pass	5180.0099	Pass	5180.0072	Pass	5180.0078	Pass
0	120	5179.9760	Pass	5179.9763	Pass	5179.9778	Pass	5179.9747	Pass
-10	120	5179.9763	Pass	5179.9773	Pass	5179.9768	Pass	5179.9797	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result						
20	138	5179.9729	Pass	5179.9749	Pass	5179.9716	Pass	5179.9710	Pass
	120	5179.9786	Pass	5179.9770	Pass	5179.9763	Pass	5179.9782	Pass
	102	5179.9691	Pass	5179.9700	Pass	5179.9701	Pass	5179.9699	Pass

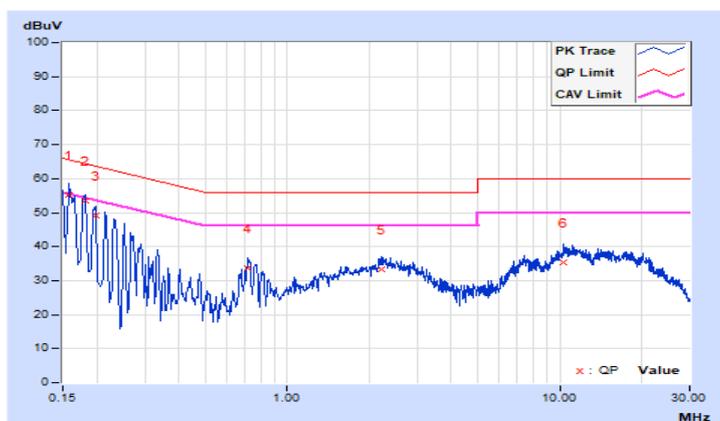
7.7 AC Power Conducted Emissions

RF Mode	802.11ax (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

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	0.15800	10.19	44.90	26.58	55.09	36.77	65.57	55.57	-10.48	-18.80
2	0.18180	10.21	43.25	27.05	53.46	37.26	64.40	54.40	-10.94	-17.14
3	0.19780	10.22	38.86	22.23	49.08	32.45	63.70	53.70	-14.62	-21.25
4	0.71400	10.27	23.43	15.82	33.70	26.09	56.00	46.00	-22.30	-19.91
5	2.21000	10.35	23.15	15.81	33.50	26.16	56.00	46.00	-22.50	-19.84
6	10.28200	10.48	24.94	19.24	35.42	29.72	60.00	50.00	-24.58	-20.28

Remarks:

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

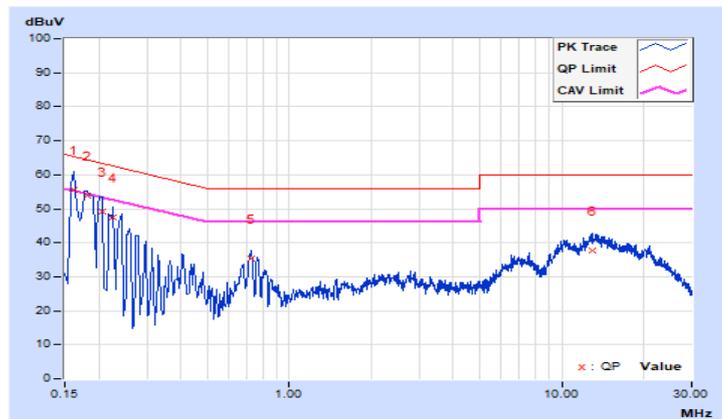


RF Mode	802.11ax (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25°C, 75% RH
Tested By	Edison Lee		

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	0.16190	10.19	45.43	25.79	55.62	35.98	65.37	55.37	-9.75	-19.39
2	0.18200	10.20	43.80	27.43	54.00	37.63	64.39	54.39	-10.39	-16.76
3	0.20600	10.21	39.10	21.43	49.31	31.64	63.37	53.37	-14.06	-21.73
4	0.22600	10.22	37.40	21.05	47.62	31.27	62.60	52.60	-14.98	-21.33
5	0.72600	10.28	25.14	18.24	35.42	28.52	56.00	46.00	-20.58	-17.48
6	12.95800	10.61	27.26	21.85	37.87	32.46	60.00	50.00	-22.13	-17.54

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



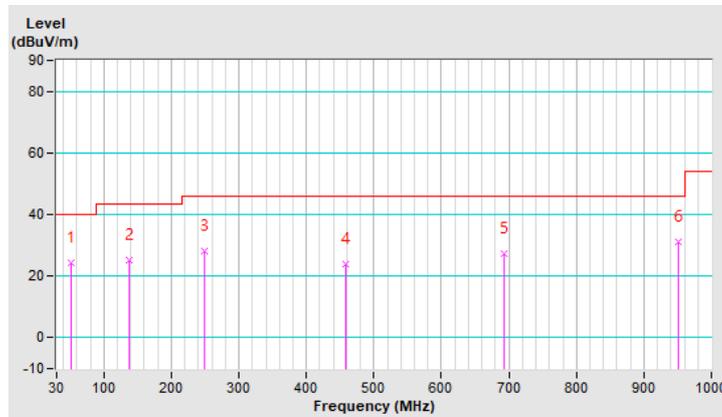
7.8 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68% RH
Tested By	Greg Lin		

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	51.09	24.4 QP	40.0	-15.6	1.25 H	292	37.5	-13.1
2	138.25	25.1 QP	43.5	-18.4	1.00 H	284	38.8	-13.7
3	249.30	28.0 QP	46.0	-18.0	1.50 H	270	42.4	-14.4
4	458.77	23.8 QP	46.0	-22.2	1.00 H	2	32.2	-8.4
5	692.13	27.4 QP	46.0	-18.6	1.25 H	209	31.6	-4.2
6	950.80	31.2 QP	46.0	-14.8	1.00 H	128	31.7	-0.5

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

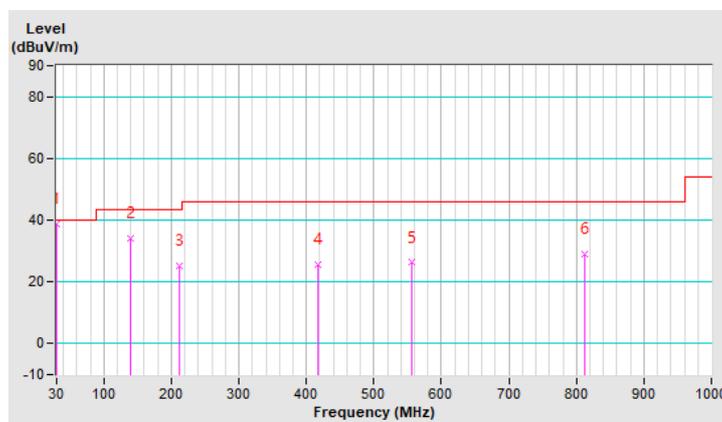


RF Mode	802.11ax (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68% RH
Tested By	Greg Lin		

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	30.00	38.7 QP	40.0	-1.3	1.25 V	286	53.2	-14.5
2	139.65	34.2 QP	43.5	-9.3	1.00 V	279	47.8	-13.6
3	211.35	25.3 QP	43.5	-18.2	1.50 V	3	42.1	-16.8
4	416.59	25.4 QP	46.0	-20.6	1.25 V	7	35.2	-9.8
5	555.77	26.2 QP	46.0	-19.8	1.00 V	165	33.1	-6.9
6	811.62	29.1 QP	46.0	-16.9	1.25 V	18	31.5	-2.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



7.9 Unwanted Emissions above 1 GHz

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.3 PK	74.0	-15.7	3.87 H	62	55.8	2.5
2	5150.00	48.0 AV	54.0	-6.0	3.87 H	62	45.5	2.5
3	*5180.00	102.5 PK			3.87 H	62	62.2	40.3
4	*5180.00	94.5 AV			3.87 H	62	54.2	40.3
5	#10360.00	55.3 PK	68.2	-12.9	2.34 H	147	46.8	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	5150.00	58.7 PK	74.0	-15.3	2.74 V	338	56.2	2.5
2	5150.00	48.3 AV	54.0	-5.7	2.74 V	338	45.8	2.5
3	*5180.00	105.1 PK			2.74 V	338	64.8	40.3
4	*5180.00	97.0 AV			2.74 V	338	56.7	40.3
5	#10360.00	56.3 PK	68.2	-11.9	2.62 V	64	47.8	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.



RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	102.6 PK			3.82 H	69	62.4	40.2
2	*5200.00	94.7 AV			3.82 H	69	54.5	40.2
3	#10400.00	55.6 PK	68.2	-12.6	2.37 H	145	47.2	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	*5200.00	105.4 PK			2.68 V	339	65.2	40.2
2	*5200.00	97.3 AV			2.68 V	339	57.1	40.2
3	#10400.00	56.5 PK	68.2	-11.7	2.57 V	59	48.1	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.



RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	102.3 PK			3.82 H	63	62.2	40.1
2	*5240.00	94.4 AV			3.82 H	63	54.3	40.1
3	5350.00	57.4 PK	74.0	-16.6	3.82 H	63	55.3	2.1
4	5350.00	47.5 AV	54.0	-6.5	3.82 H	63	45.4	2.1
5	#10480.00	55.4 PK	68.2	-12.8	2.36 H	141	46.9	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	*5240.00	104.9 PK			2.53 V	335	64.8	40.1
2	*5240.00	97.0 AV			2.53 V	335	56.9	40.1
3	5350.00	57.8 PK	74.0	-16.2	2.53 V	335	55.7	2.1
4	5350.00	47.7 AV	54.0	-6.3	2.53 V	335	45.6	2.1
5	#10480.00	56.3 PK	68.2	-11.9	2.54 V	56	47.8	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.



RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.8 PK	74.0	-16.2	3.78 H	66	55.3	2.5
2	5150.00	47.7 AV	54.0	-6.3	3.78 H	66	45.2	2.5
3	*5260.00	102.3 PK			3.78 H	66	62.2	40.1
4	*5260.00	94.2 AV			3.78 H	66	54.1	40.1
5	#10520.00	55.7 PK	68.2	-12.5	2.51 H	154	47.2	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	5150.00	58.2 PK	74.0	-15.8	3.32 V	331	55.7	2.5
2	5150.00	48.1 AV	54.0	-5.9	3.32 V	331	45.6	2.5
3	*5260.00	104.8 PK			3.32 V	331	64.7	40.1
4	*5260.00	96.9 AV			3.32 V	331	56.8	40.1
5	#10520.00	56.4 PK	68.2	-11.8	2.67 V	58	47.9	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.



RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	102.4 PK			3.76 H	68	62.4	40.0
2	*5300.00	94.4 AV			3.76 H	68	54.4	40.0
3	10600.00	55.6 PK	74.0	-18.4	2.42 H	137	46.8	8.8
4	10600.00	45.9 AV	54.0	-8.1	2.42 H	137	37.1	8.8

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	105.1 PK			3.57 V	332	65.1	40.0
2	*5300.00	97.0 AV			3.57 V	332	57.0	40.0
3	10600.00	56.6 PK	74.0	-17.4	2.64 V	59	47.8	8.8
4	10600.00	46.5 AV	54.0	-7.5	2.64 V	59	37.7	8.8

Remarks:

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

RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	101.6 PK			3.80 H	64	61.6	40.0
2	*5320.00	93.7 AV			3.80 H	64	53.7	40.0
3	5350.00	57.5 PK	74.0	-16.5	3.80 H	64	55.4	2.1
4	5350.00	47.4 AV	54.0	-6.6	3.80 H	64	45.3	2.1
5	10640.00	55.8 PK	74.0	-18.2	2.31 H	146	47.2	8.6
6	10640.00	45.7 AV	54.0	-8.3	2.31 H	146	37.1	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	*5320.00	104.4 PK			3.87 V	338	64.4	40.0
2	*5320.00	96.3 AV			3.87 V	338	56.3	40.0
3	5350.00	58.0 PK	74.0	-16.0	3.87 V	338	55.9	2.1
4	5350.00	47.9 AV	54.0	-6.1	3.87 V	338	45.8	2.1
5	10640.00	56.4 PK	74.0	-17.6	2.64 V	55	47.8	8.6
6	10640.00	46.1 AV	54.0	-7.9	2.64 V	55	37.5	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.



RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.7 PK	74.0	-18.3	3.84 H	236	53.6	2.1
2	5460.00	47.1 AV	54.0	-6.9	3.84 H	236	45.0	2.1
3	#5470.00	57.0 PK	68.2	-11.2	3.84 H	236	54.9	2.1
4	*5500.00	98.3 PK			3.84 H	236	58.2	40.1
5	*5500.00	91.7 AV			3.84 H	236	51.6	40.1
6	11000.00	55.5 PK	74.0	-18.5	2.35 H	150	46.8	8.7
7	11000.00	47.0 AV	54.0	-7.0	2.35 H	150	38.3	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	5460.00	56.7 PK	74.0	-17.3	2.73 V	339	54.6	2.1
2	5460.00	47.6 AV	54.0	-6.4	2.73 V	339	45.5	2.1
3	#5470.00	57.1 PK	68.2	-11.1	2.73 V	339	55.0	2.1
4	*5500.00	103.1 PK			2.73 V	339	63.0	40.1
5	*5500.00	96.2 AV			2.73 V	339	56.1	40.1
6	11000.00	55.8 PK	74.0	-18.2	2.66 V	57	47.1	8.7
7	11000.00	47.2 AV	54.0	-6.8	2.66 V	57	38.5	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.



RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	99.5 PK			3.86 H	231	58.6	40.9
2	*5580.00	92.9 AV			3.86 H	231	52.0	40.9
3	11160.00	55.7 PK	74.0	-18.3	2.33 H	151	46.9	8.8
4	11160.00	47.2 AV	54.0	-6.8	2.33 H	151	38.4	8.8

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	104.2 PK			2.77 V	333	63.3	40.9
2	*5580.00	97.4 AV			2.77 V	333	56.5	40.9
3	11160.00	56.1 PK	74.0	-17.9	2.65 V	51	47.3	8.8
4	11160.00	47.4 AV	54.0	-6.6	2.65 V	51	38.6	8.8

Remarks:

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



RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	97.9 PK			3.53 H	228	56.5	41.4
2	*5700.00	91.4 AV			3.53 H	228	50.0	41.4
3	#5725.00	59.2 PK	68.2	-9.0	3.53 H	228	55.5	3.7
4	11400.00	56.0 PK	74.0	-18.0	2.36 H	149	46.5	9.5
5	11400.00	47.5 AV	54.0	-6.5	2.36 H	149	38.0	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	*5700.00	101.6 PK			2.59 V	329	60.2	41.4
2	*5700.00	95.1 AV			2.59 V	329	53.7	41.4
3	#5725.00	59.7 PK	68.2	-8.5	2.59 V	329	56.0	3.7
4	11400.00	56.4 PK	74.0	-17.6	2.59 V	61	46.9	9.5
5	11400.00	47.8 AV	54.0	-6.2	2.59 V	61	38.3	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.



RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.1 PK	68.2	-12.1	3.72 H	231	54.0	2.1
2	*5720.00	98.2 PK			3.72 H	231	56.7	41.5
3	*5720.00	91.7 AV			3.72 H	231	50.2	41.5
4	#5850.00	57.9 PK	68.2	-10.3	3.72 H	231	54.2	3.7
5	11440.00	56.3 PK	74.0	-17.7	2.30 H	142	46.7	9.6
6	11440.00	47.6 AV	54.0	-6.4	2.30 H	142	38.0	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	#5470.00	57.0 PK	68.2	-11.2	2.77 V	323	54.9	2.1
2	*5720.00	102.5 PK			2.77 V	323	61.0	41.5
3	*5720.00	95.2 AV			2.77 V	323	53.7	41.5
4	#5850.00	59.0 PK	68.2	-9.2	2.77 V	323	55.3	3.7
5	11440.00	56.6 PK	74.0	-17.4	2.69 V	58	47.0	9.6
6	11440.00	48.1 AV	54.0	-5.9	2.69 V	58	38.5	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.



RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	#5636.80	58.9 PK	68.2	-9.3	3.82 H	69	55.5	3.4
2	*5745.00	102.3 PK			3.82 H	69	60.6	41.7
3	*5745.00	94.4 AV			3.82 H	69	52.7	41.7
4	#5961.20	58.6 PK	68.2	-9.6	3.82 H	69	54.7	3.9
5	11490.00	56.7 PK	74.0	-17.3	2.28 H	143	47.1	9.6
6	11490.00	46.6 AV	54.0	-7.4	2.28 H	143	37.0	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	#5642.00	57.2 PK	68.2	-11.0	3.03 V	330	53.8	3.4
2	*5745.00	104.9 PK			3.03 V	330	63.2	41.7
3	*5745.00	97.1 AV			3.03 V	330	55.4	41.7
4	#5982.40	59.3 PK	68.2	-8.9	3.03 V	330	55.3	4.0
5	11490.00	57.3 PK	74.0	-16.7	2.54 V	76	47.7	9.6
6	11490.00	47.2 AV	54.0	-6.8	2.54 V	76	37.6	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.



RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	#5616.00	59.0 PK	68.2	-9.2	3.70 H	58	55.7	3.3
2	*5785.00	102.6 PK			3.70 H	58	60.8	41.8
3	*5785.00	94.7 AV			3.70 H	58	52.9	41.8
4	#5968.80	58.1 PK	68.2	-10.1	3.70 H	58	54.2	3.9
5	11570.00	56.9 PK	74.0	-17.1	2.27 H	145	47.3	9.6
6	11570.00	46.8 AV	54.0	-7.2	2.27 H	145	37.2	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	#5641.60	59.8 PK	68.2	-8.4	2.74 V	327	56.4	3.4
2	*5785.00	105.3 PK			2.74 V	327	63.5	41.8
3	*5785.00	97.4 AV			2.74 V	327	55.6	41.8
4	#5949.20	58.5 PK	68.2	-9.7	2.74 V	327	54.7	3.8
5	11570.00	57.4 PK	74.0	-16.6	2.53 V	68	47.8	9.6
6	11570.00	47.2 AV	54.0	-6.8	2.53 V	68	37.6	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.



RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5630.00	58.2 PK	68.2	-10.0	3.81 H	63	54.9	3.3
2	*5825.00	102.5 PK			3.81 H	63	60.7	41.8
3	*5825.00	94.5 AV			3.81 H	63	52.7	41.8
4	#5948.00	59.5 PK	68.2	-8.7	3.81 H	63	55.7	3.8
5	11650.00	56.6 PK	74.0	-17.4	2.31 H	147	47.1	9.5
6	11650.00	46.4 AV	54.0	-7.6	2.31 H	147	36.9	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	#5605.20	58.1 PK	68.2	-10.1	2.79 V	320	54.9	3.2
2	*5825.00	105.4 PK			2.79 V	320	63.6	41.8
3	*5825.00	97.3 AV			2.79 V	320	55.5	41.8
4	#5976.40	59.0 PK	68.2	-9.2	2.79 V	320	55.0	4.0
5	11650.00	57.3 PK	74.0	-16.7	2.57 V	61	47.8	9.5
6	11650.00	47.2 AV	54.0	-6.8	2.57 V	61	37.7	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.



RF Mode	802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.8 PK	74.0	-16.2	3.91 H	64	55.3	2.5
2	5150.00	47.9 AV	54.0	-6.1	3.91 H	64	45.4	2.5
3	*5180.00	104.2 PK			3.91 H	64	63.9	40.3
4	*5180.00	94.8 AV			3.91 H	64	54.5	40.3
5	#10360.00	56.1 PK	68.2	-12.1	2.43 H	157	47.6	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	5150.00	58.3 PK	74.0	-15.7	3.67 V	331	55.8	2.5
2	5150.00	48.2 AV	54.0	-5.8	3.67 V	331	45.7	2.5
3	*5180.00	106.9 PK			3.67 V	331	66.6	40.3
4	*5180.00	97.6 AV			3.67 V	331	57.3	40.3
5	#10360.00	56.8 PK	68.2	-11.4	2.69 V	68	48.3	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.



RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	105.4 PK			3.84 H	59	65.2	40.2
2	*5200.00	95.8 AV			3.84 H	59	55.6	40.2
3	#10400.00	56.0 PK	68.2	-12.2	2.47 H	152	47.6	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	*5200.00	108.0 PK			3.47 V	336	67.8	40.2
2	*5200.00	98.5 AV			3.47 V	336	58.3	40.2
3	#10400.00	56.8 PK	68.2	-11.4	2.81 V	85	48.4	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.



RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	104.8 PK			3.89 H	67	64.7	40.1
2	*5240.00	95.4 AV			3.89 H	67	55.3	40.1
3	5350.00	57.5 PK	74.0	-16.5	3.89 H	67	55.4	2.1
4	5350.00	47.4 AV	54.0	-6.6	3.89 H	67	45.3	2.1
5	#10480.00	56.0 PK	68.2	-12.2	2.37 H	146	47.5	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	*5240.00	107.7 PK			3.39 V	333	67.6	40.1
2	*5240.00	98.2 AV			3.39 V	333	58.1	40.1
3	5350.00	58.0 PK	74.0	-16.0	3.39 V	333	55.9	2.1
4	5350.00	47.8 AV	54.0	-6.2	3.39 V	333	45.7	2.1
5	#10480.00	56.6 PK	68.2	-11.6	2.67 V	69	48.1	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.



RF Mode	802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.0 PK	74.0	-17.0	3.54 H	64	54.5	2.5
2	5150.00	48.1 AV	54.0	-5.9	3.54 H	64	45.6	2.5
3	*5260.00	102.4 PK			3.54 H	64	62.3	40.1
4	*5260.00	93.7 AV			3.54 H	64	53.6	40.1
5	#10520.00	55.3 PK	68.2	-12.9	2.33 H	145	46.8	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	5150.00	57.7 PK	74.0	-16.3	3.49 V	332	55.2	2.5
2	5150.00	48.3 AV	54.0	-5.7	3.49 V	332	45.8	2.5
3	*5260.00	105.4 PK			3.49 V	332	65.3	40.1
4	*5260.00	97.6 AV			3.49 V	332	57.5	40.1
5	#10520.00	55.6 PK	68.2	-12.6	2.66 V	61	47.1	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.



RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	103.0 PK			3.58 H	67	63.0	40.0
2	*5300.00	94.5 AV			3.58 H	67	54.5	40.0
3	10600.00	55.3 PK	74.0	-18.7	2.43 H	142	46.5	8.8
4	10600.00	45.6 AV	54.0	-8.4	2.43 H	142	36.8	8.8

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	106.2 PK			3.45 V	333	66.2	40.0
2	*5300.00	98.3 AV			3.45 V	333	58.3	40.0
3	10600.00	55.9 PK	74.0	-18.1	2.64 V	58	47.1	8.8
4	10600.00	46.0 AV	54.0	-8.0	2.64 V	58	37.2	8.8

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	101.2 PK			3.73 H	66	61.2	40.0
2	*5320.00	93.4 AV			3.73 H	66	53.4	40.0
3	5350.00	56.6 PK	74.0	-17.4	3.73 H	66	54.5	2.1
4	5350.00	47.9 AV	54.0	-6.1	3.73 H	66	45.8	2.1
5	10640.00	54.8 PK	74.0	-19.2	2.50 H	149	46.2	8.6
6	10640.00	45.1 AV	54.0	-8.9	2.50 H	149	36.5	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	*5320.00	105.5 PK			3.44 V	332	65.5	40.0
2	*5320.00	97.9 AV			3.44 V	332	57.9	40.0
3	5350.00	57.2 PK	74.0	-16.8	3.44 V	332	55.1	2.1
4	5350.00	47.9 AV	54.0	-6.1	3.44 V	332	45.8	2.1
5	10620.00	55.6 PK	74.0	-18.4	2.66 V	63	46.9	8.7
6	10620.00	45.8 AV	54.0	-8.2	2.66 V	63	37.1	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.



RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.7 PK	74.0	-17.3	4.00 H	60	54.6	2.1
2	5460.00	47.4 AV	54.0	-6.6	4.00 H	60	45.3	2.1
3	#5470.00	57.1 PK	68.2	-11.1	4.00 H	60	55.0	2.1
4	*5500.00	100.4 PK			4.00 H	60	60.3	40.1
5	*5500.00	92.1 AV			4.00 H	60	52.0	40.1
6	11000.00	55.2 PK	74.0	-18.8	2.29 H	146	46.5	8.7
7	11000.00	46.7 AV	54.0	-7.3	2.29 H	146	38.0	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	5460.00	57.1 PK	74.0	-16.9	3.18 V	320	55.0	2.1
2	5460.00	47.8 AV	54.0	-6.2	3.18 V	320	45.7	2.1
3	#5470.00	57.6 PK	68.2	-10.6	3.18 V	320	55.5	2.1
4	*5500.00	104.8 PK			3.18 V	320	64.7	40.1
5	*5500.00	96.6 AV			3.18 V	320	56.5	40.1
6	11000.00	55.6 PK	74.0	-18.4	2.61 V	57	46.9	8.7
7	11000.00	47.1 AV	54.0	-6.9	2.61 V	57	38.4	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.



RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	101.4 PK			3.85 H	68	60.5	40.9
2	*5580.00	93.2 AV			3.85 H	68	52.3	40.9
3	11160.00	55.1 PK	74.0	-18.9	2.33 H	154	46.3	8.8
4	11160.00	46.7 AV	54.0	-7.3	2.33 H	154	37.9	8.8

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	105.9 PK			3.21 V	324	65.0	40.9
2	*5580.00	97.5 AV			3.21 V	324	56.6	40.9
3	11160.00	55.5 PK	74.0	-18.5	2.63 V	54	46.7	8.8
4	11160.00	46.9 AV	54.0	-7.1	2.63 V	54	38.1	8.8

Remarks:

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



RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	102.0 PK			3.70 H	76	60.6	41.4
2	*5700.00	93.2 AV			3.70 H	76	51.8	41.4
3	#5725.00	57.7 PK	68.2	-10.5	3.70 H	76	54.0	3.7
4	11400.00	55.5 PK	74.0	-18.5	2.34 H	135	46.0	9.5
5	11400.00	47.5 AV	54.0	-6.5	2.34 H	135	38.0	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	*5700.00	103.7 PK			3.66 V	319	62.3	41.4
2	*5700.00	95.5 AV			3.66 V	319	54.1	41.4
3	#5725.00	58.9 PK	68.2	-9.3	3.66 V	319	55.2	3.7
4	11400.00	56.5 PK	74.0	-17.5	2.65 V	61	47.0	9.5
5	11400.00	47.9 AV	54.0	-6.1	2.65 V	61	38.4	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.
6. " # " : The radiated frequency is out of the restricted band.



RF Mode	802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.5 PK	68.2	-11.7	3.66 H	75	54.4	2.1
2	*5720.00	102.0 PK			3.66 H	75	60.5	41.5
3	*5720.00	93.8 AV			3.66 H	75	52.3	41.5
4	#5850.00	58.2 PK	68.2	-10.0	3.66 H	75	54.5	3.7
5	11440.00	56.5 PK	74.0	-17.5	2.43 H	148	46.9	9.6
6	11440.00	47.7 AV	54.0	-6.3	2.43 H	148	38.1	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	#5470.00	57.3 PK	68.2	-10.9	3.89 V	327	55.2	2.1
2	*5720.00	104.1 PK			3.89 V	327	62.6	41.5
3	*5720.00	96.5 AV			3.89 V	327	55.0	41.5
4	#5850.00	59.0 PK	68.2	-9.2	3.89 V	327	55.3	3.7
5	11440.00	56.5 PK	74.0	-17.5	2.67 V	66	46.9	9.6
6	11440.00	48.0 AV	54.0	-6.0	2.67 V	66	38.4	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.



RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	#5606.80	57.3 PK	68.2	-10.9	3.91 H	65	54.1	3.2
2	*5745.00	104.6 PK			3.92 H	65	62.9	41.7
3	*5745.00	95.2 AV			3.92 H	65	53.5	41.7
4	#5962.80	57.4 PK	68.2	-10.8	3.91 H	65	53.5	3.9
5	11490.00	56.9 PK	74.0	-17.1	2.36 H	158	47.3	9.6
6	11490.00	46.8 AV	54.0	-7.2	2.36 H	158	37.2	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	#5646.80	57.8 PK	68.2	-10.4	3.52 V	316	54.4	3.4
2	*5745.00	107.3 PK			3.52 V	316	65.6	41.7
3	*5745.00	97.8 AV			3.52 V	316	56.1	41.7
4	#5976.00	59.0 PK	68.2	-9.2	3.52 V	316	55.0	4.0
5	11490.00	57.9 PK	74.0	-16.1	2.63 V	74	48.3	9.6
6	11490.00	47.7 AV	54.0	-6.3	2.63 V	74	38.1	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.



RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5630.40	57.5 PK	68.2	-10.7	3.91 H	65	54.2	3.3
2	*5785.00	104.6 PK			3.91 H	65	62.8	41.8
3	*5785.00	95.2 AV			3.91 H	65	53.4	41.8
4	#5970.80	58.5 PK	68.2	-9.7	3.91 H	65	54.5	4.0
5	11570.00	57.0 PK	74.0	-17.0	2.46 H	162	47.4	9.6
6	11570.00	46.9 AV	54.0	-7.1	2.46 H	162	37.3	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	#5650.00	58.9 PK	68.2	-9.3	3.54 V	315	55.5	3.4
2	*5785.00	107.2 PK			3.54 V	315	65.4	41.8
3	*5785.00	97.7 AV			3.54 V	315	55.9	41.8
4	#5948.80	58.3 PK	68.2	-9.9	3.54 V	315	54.5	3.8
5	11570.00	58.0 PK	74.0	-16.0	2.74 V	83	48.4	9.6
6	11570.00	47.8 AV	54.0	-6.2	2.74 V	83	38.2	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.



RF Mode	802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	#5604.40	57.1 PK	68.2	-11.1	3.89 H	64	53.9	3.2
2	*5825.00	104.1 PK			3.89 H	64	62.3	41.8
3	*5825.00	94.6 AV			3.89 H	64	52.8	41.8
4	#5960.40	58.5 PK	68.2	-9.7	3.89 H	64	54.6	3.9
5	11650.00	56.7 PK	74.0	-17.3	2.38 H	152	47.2	9.5
6	11650.00	46.6 AV	54.0	-7.4	2.38 H	152	37.1	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	#5606.80	58.7 PK	68.2	-9.5	3.45 V	312	55.5	3.2
2	*5825.00	107.0 PK			3.45 V	312	65.2	41.8
3	*5825.00	97.4 AV			3.45 V	312	55.6	41.8
4	#5956.80	59.8 PK	68.2	-8.4	3.45 V	312	55.9	3.9
5	11650.00	57.7 PK	74.0	-16.3	2.71 V	78	48.2	9.5
6	11650.00	47.3 AV	54.0	-6.7	2.71 V	78	37.8	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.



RF Mode	802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.9 PK	74.0	-16.1	3.85 H	63	55.4	2.5
2	5150.00	47.9 AV	54.0	-6.1	3.85 H	63	45.4	2.5
3	*5190.00	101.6 PK			3.85 H	63	61.3	40.3
4	*5190.00	92.1 AV			3.85 H	63	51.8	40.3
5	#10380.00	55.6 PK	68.2	-12.6	2.39 H	152	47.1	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	5150.00	58.4 PK	74.0	-15.6	3.65 V	335	55.9	2.5
2	5150.00	48.3 AV	54.0	-5.7	3.65 V	335	45.8	2.5
3	*5190.00	104.2 PK			3.65 V	335	63.9	40.3
4	*5190.00	94.8 AV			3.65 V	335	54.5	40.3
5	#10380.00	56.3 PK	68.2	-11.9	2.71 V	78	47.8	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.



RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	101.5 PK			3.82 H	67	61.4	40.1
2	*5230.00	92.1 AV			3.82 H	67	52.0	40.1
3	5350.00	57.4 PK	74.0	-16.6	3.82 H	67	55.3	2.1
4	5350.00	47.3 AV	54.0	-6.7	3.82 H	67	45.2	2.1
5	#10460.00	55.3 PK	68.2	-12.9	2.34 H	158	46.8	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	*5230.00	104.5 PK			3.36 V	335	64.4	40.1
2	*5230.00	94.9 AV			3.36 V	335	54.8	40.1
3	5350.00	57.8 PK	74.0	-16.2	3.36 V	335	55.7	2.1
4	5350.00	47.7 AV	54.0	-6.3	3.36 V	335	45.6	2.1
5	#10460.00	56.2 PK	68.2	-12.0	2.82 V	83	47.7	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.



RF Mode	802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.9 PK	74.0	-17.1	3.98 H	63	54.4	2.5
2	5150.00	48.2 AV	54.0	-5.8	3.98 H	63	45.7	2.5
3	*5270.00	98.3 PK			3.98 H	63	58.2	40.1
4	*5270.00	90.6 AV			3.98 H	63	50.5	40.1
5	#10540.00	55.2 PK	68.2	-13.0	2.39 H	148	46.6	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	5150.00	57.6 PK	74.0	-16.4	3.33 V	331	55.1	2.5
2	5150.00	48.3 AV	54.0	-5.7	3.33 V	331	45.8	2.5
3	*5270.00	104.1 PK			3.33 V	331	64.0	40.1
4	*5270.00	95.6 AV			3.33 V	331	55.5	40.1
5	#10540.00	55.4 PK	68.2	-12.8	2.58 V	58	46.8	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.



RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	97.8 PK			3.90 H	60	57.8	40.0
2	*5310.00	90.3 AV			3.90 H	60	50.3	40.0
3	5350.00	55.8 PK	74.0	-18.2	3.90 H	60	53.7	2.1
4	5350.00	47.7 AV	54.0	-6.3	3.90 H	60	45.6	2.1
5	10620.00	54.8 PK	74.0	-19.2	2.49 H	145	46.1	8.7
6	10620.00	45.1 AV	54.0	-8.9	2.49 H	145	36.4	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	*5310.00	102.3 PK			3.31 V	336	62.3	40.0
2	*5310.00	94.5 AV			3.31 V	336	54.5	40.0
3	5350.00	57.2 PK	74.0	-16.8	3.31 V	336	55.1	2.1
4	5350.00	47.8 AV	54.0	-6.2	3.31 V	336	45.7	2.1
5	10620.00	55.6 PK	74.0	-18.4	2.63 V	69	46.9	8.7
6	10620.00	45.5 AV	54.0	-8.5	2.63 V	69	36.8	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.



RF Mode	802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.0 PK	74.0	-18.0	3.18 H	91	53.9	2.1
2	5460.00	47.1 AV	54.0	-6.9	3.18 H	91	45.0	2.1
3	#5470.00	56.6 PK	68.2	-11.6	3.18 H	91	54.5	2.1
4	*5510.00	97.5 PK			3.18 H	91	57.2	40.3
5	*5510.00	89.3 AV			3.18 H	91	49.0	40.3
6	11020.00	55.1 PK	74.0	-18.9	2.33 H	150	46.4	8.7
7	11020.00	46.2 AV	54.0	-7.8	2.33 H	150	37.5	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	5460.00	57.1 PK	74.0	-16.9	3.80 V	340	55.0	2.1
2	5460.00	47.6 AV	54.0	-6.4	3.80 V	340	45.5	2.1
3	#5470.00	57.2 PK	68.2	-11.0	3.80 V	340	55.1	2.1
4	*5510.00	103.3 PK			3.80 V	340	63.0	40.3
5	*5510.00	93.9 AV			3.80 V	340	53.6	40.3
6	11020.00	55.5 PK	74.0	-18.5	2.59 V	55	46.8	8.7
7	11020.00	46.8 AV	54.0	-7.2	2.59 V	55	38.1	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.
6. " # " : The radiated frequency is out of the restricted band.



RF Mode	802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	100.5 PK			3.20 H	87	59.9	40.6
2	*5550.00	90.8 AV			3.20 H	87	50.2	40.6
3	11100.00	55.7 PK	74.0	-18.3	2.31 H	159	46.8	8.9
4	11100.00	47.2 AV	54.0	-6.8	2.31 H	159	38.3	8.9

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	103.8 PK			3.88 V	351	63.2	40.6
2	*5550.00	95.1 AV			3.88 V	351	54.5	40.6
3	11100.00	56.0 PK	74.0	-18.0	2.52 V	52	47.1	8.9
4	11100.00	47.4 AV	54.0	-6.6	2.52 V	52	38.5	8.9

Remarks:

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



RF Mode	802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	100.3 PK			3.26 H	72	58.9	41.4
2	*5670.00	91.5 AV			3.26 H	72	50.1	41.4
3	#5725.00	57.7 PK	68.2	-10.5	3.26 H	72	54.0	3.7
4	11340.00	55.7 PK	74.0	-18.3	2.30 H	142	46.2	9.5
5	11340.00	47.4 AV	54.0	-6.6	2.30 H	142	37.9	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	*5670.00	103.1 PK			1.13 V	323	61.7	41.4
2	*5670.00	94.7 AV			1.13 V	323	53.3	41.4
3	#5725.00	59.7 PK	68.2	-8.5	1.13 V	323	56.0	3.7
4	11340.00	56.4 PK	74.0	-17.6	2.59 V	61	46.9	9.5
5	11340.00	47.5 AV	54.0	-6.5	2.59 V	61	38.0	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.



RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.3 PK	68.2	-11.9	3.54 H	71	54.2	2.1
2	*5710.00	99.8 PK			3.54 H	71	58.3	41.5
3	*5710.00	91.0 AV			3.54 H	71	49.5	41.5
4	#5850.00	58.0 PK	68.2	-10.2	3.54 H	71	54.3	3.7
5	11420.00	56.0 PK	74.0	-18.0	2.29 H	138	46.4	9.6
6	11420.00	47.1 AV	54.0	-6.9	2.29 H	138	37.5	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	#5470.00	56.8 PK	68.2	-11.4	1.22 V	322	54.7	2.1
2	*5710.00	102.8 PK			1.22 V	322	61.3	41.5
3	*5710.00	94.6 AV			1.22 V	322	53.1	41.5
4	#5850.00	58.4 PK	68.2	-9.8	1.22 V	322	54.7	3.7
5	11420.00	56.3 PK	74.0	-17.7	2.58 V	59	46.7	9.6
6	11420.00	47.6 AV	54.0	-6.4	2.58 V	59	38.0	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.



RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	#5624.80	56.9 PK	68.2	-11.3	3.91 H	63	53.6	3.3
2	*5755.00	101.6 PK			3.91 H	63	59.8	41.8
3	*5755.00	92.2 AV			3.91 H	63	50.4	41.8
4	#5928.00	58.3 PK	68.2	-9.9	3.91 H	63	54.6	3.7
5	11510.00	56.8 PK	74.0	-17.2	2.42 H	155	47.2	9.6
6	11510.00	46.7 AV	54.0	-7.3	2.42 H	155	37.1	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	#5639.60	59.2 PK	68.2	-9.0	3.55 V	315	55.8	3.4
2	*5755.00	104.4 PK			3.55 V	315	62.6	41.8
3	*5755.00	94.9 AV			3.55 V	315	53.1	41.8
4	#5955.20	59.3 PK	68.2	-8.9	3.55 V	315	55.5	3.8
5	11510.00	57.4 PK	74.0	-16.6	2.73 V	77	47.8	9.6
6	11510.00	47.2 AV	54.0	-6.8	2.73 V	77	37.6	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.



RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5613.60	57.9 PK	68.2	-10.3	3.93 H	64	54.7	3.2
2	*5795.00	101.9 PK			3.93 H	64	60.1	41.8
3	*5795.00	92.4 AV			3.93 H	64	50.6	41.8
4	#5949.60	58.0 PK	68.2	-10.2	3.93 H	64	54.2	3.8
5	11590.00	56.6 PK	74.0	-17.4	2.37 H	146	47.1	9.5
6	11590.00	46.4 AV	54.0	-7.6	2.37 H	146	36.9	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	#5622.00	59.2 PK	68.2	-9.0	3.54 V	316	55.9	3.3
2	*5795.00	104.6 PK			3.54 V	316	62.8	41.8
3	*5795.00	95.0 AV			3.54 V	316	53.2	41.8
4	#5974.00	59.1 PK	68.2	-9.1	3.54 V	316	55.1	4.0
5	11590.00	57.3 PK	74.0	-16.7	2.79 V	81	47.8	9.5
6	11590.00	47.2 AV	54.0	-6.8	2.79 V	81	37.7	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.



RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.1 PK	74.0	-15.9	3.83 H	62	55.6	2.5
2	5150.00	48.0 AV	54.0	-6.0	3.83 H	62	45.5	2.5
3	*5210.00	98.8 PK			3.83 H	62	58.6	40.2
4	*5210.00	89.4 AV			3.83 H	62	49.2	40.2
5	#10420.00	55.1 PK	68.2	-13.1	2.53 H	164	46.7	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	5150.00	58.7 PK	74.0	-15.3	3.37 V	332	56.2	2.5
2	5150.00	48.6 AV	54.0	-5.4	3.37 V	332	46.1	2.5
3	*5210.00	101.6 PK			3.37 V	332	61.4	40.2
4	*5210.00	92.1 AV			3.37 V	332	51.9	40.2
5	#10420.00	56.0 PK	68.2	-12.2	2.74 V	79	47.6	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.

RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5290.00	95.0 PK			3.99 H	55	55.0	40.0
2	*5290.00	87.5 AV			3.99 H	55	47.5	40.0
3	5350.00	57.2 PK	74.0	-16.8	3.99 H	55	55.1	2.1
4	5350.00	47.7 AV	54.0	-6.3	3.99 H	55	45.6	2.1
5	#10580.00	55.2 PK	68.2	-13.0	2.51 H	152	46.5	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	*5290.00	101.0 PK			3.33 V	333	61.0	40.0
2	*5290.00	92.4 AV			3.33 V	333	52.4	40.0
3	5350.00	57.8 PK	74.0	-16.2	3.33 V	333	55.7	2.1
4	5350.00	48.1 AV	54.0	-5.9	3.33 V	333	46.0	2.1
5	#10580.00	55.5 PK	68.2	-12.7	2.61 V	61	46.8	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.
6. " # " : The radiated frequency is out of the restricted band.



RF Mode	802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.1 PK	74.0	-17.9	4.00 H	88	54.0	2.1
2	5460.00	47.4 AV	54.0	-6.6	4.00 H	88	45.3	2.1
3	#5470.00	56.6 PK	68.2	-11.6	4.00 H	88	54.5	2.1
4	*5530.00	95.9 PK			4.00 H	88	55.5	40.4
5	*5530.00	88.5 AV			4.00 H	88	48.1	40.4
6	11060.00	55.1 PK	74.0	-18.9	2.29 H	138	46.3	8.8
7	11060.00	46.3 AV	54.0	-7.7	2.29 H	138	37.5	8.8

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.6 PK	74.0	-16.4	1.04 V	319	55.5	2.1
2	5460.00	47.8 AV	54.0	-6.2	1.04 V	319	45.7	2.1
3	#5470.00	57.9 PK	68.2	-10.3	1.04 V	319	55.8	2.1
4	*5530.00	99.6 PK			1.04 V	319	59.2	40.4
5	*5530.00	91.4 AV			1.04 V	319	51.0	40.4
6	11060.00	55.6 PK	74.0	-18.4	2.59 V	55	46.8	8.8
7	11060.00	46.6 AV	54.0	-7.4	2.59 V	55	37.8	8.8

Remarks:

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



RF Mode	802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	94.2 PK			3.85 H	80	53.1	41.1
2	*5610.00	87.1 AV			3.85 H	80	46.0	41.1
3	#5725.00	58.3 PK	68.2	-9.9	3.85 H	80	54.6	3.7
4	11220.00	55.2 PK	74.0	-18.8	2.29 H	138	46.3	8.9
5	11220.00	46.4 AV	54.0	-7.6	2.29 H	138	37.5	8.9

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	100.8 PK			1.07 V	324	59.7	41.1
2	*5610.00	91.9 AV			1.07 V	324	50.8	41.1
3	#5725.00	58.7 PK	68.2	-9.5	1.07 V	324	55.0	3.7
4	11220.00	55.7 PK	74.0	-18.3	2.65 V	63	46.8	8.9
5	11220.00	46.9 AV	54.0	-7.1	2.65 V	63	38.0	8.9

Remarks:

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



RF Mode	802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.7 PK	68.2	-11.5	3.99 H	80	54.6	2.1
2	*5690.00	95.2 PK			3.99 H	80	53.8	41.4
3	*5690.00	87.6 AV			3.99 H	80	46.2	41.4
4	#5850.00	58.6 PK	68.2	-9.6	3.99 H	80	54.9	3.7
5	11380.00	56.0 PK	74.0	-18.0	2.36 H	148	46.5	9.5
6	11380.00	47.1 AV	54.0	-6.9	2.36 H	148	37.6	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	#5470.00	57.1 PK	68.2	-11.1	1.04 V	316	55.0	2.1
2	*5690.00	101.3 PK			1.04 V	316	59.9	41.4
3	*5690.00	91.6 AV			1.04 V	316	50.2	41.4
4	#5850.00	58.9 PK	68.2	-9.3	1.04 V	316	55.2	3.7
5	11380.00	56.1 PK	74.0	-17.9	2.51 V	49	46.6	9.5
6	11380.00	47.3 AV	54.0	-6.7	2.51 V	49	37.8	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.



RF Mode	802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	#5636.00	56.6 PK	68.2	-11.6	3.88 H	60	53.2	3.4
2	*5775.00	98.9 PK			3.88 H	60	57.2	41.7
3	*5775.00	89.3 AV			3.88 H	60	47.6	41.7
4	#5936.40	57.7 PK	68.2	-10.5	3.88 H	60	54.0	3.7
5	11550.00	56.5 PK	74.0	-17.5	2.36 H	157	46.9	9.6
6	11550.00	46.4 AV	54.0	-7.6	2.36 H	157	36.8	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	#5637.20	58.0 PK	68.2	-10.2	3.42 V	316	54.6	3.4
2	*5775.00	101.4 PK			3.42 V	316	59.7	41.7
3	*5775.00	91.9 AV			3.42 V	316	50.2	41.7
4	#5938.80	58.7 PK	68.2	-9.5	3.42 V	316	55.0	3.7
5	11550.00	57.2 PK	74.0	-16.8	2.79 V	74	47.6	9.6
6	11550.00	47.0 AV	54.0	-7.0	2.79 V	74	37.4	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.



RF Mode	802.11ax (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	*5250.00	93.9 PK			3.78 H	60	53.8	40.1
2	*5250.00	85.6 AV			3.78 H	60	45.5	40.1
3	5350.00	57.2 PK	74.0	-16.8	3.78 H	60	55.1	2.1
4	5350.00	48.6 AV	54.0	-5.4	3.78 H	60	46.5	2.1
5	#10500.00	54.6 PK	68.2	-13.6	2.41 H	139	46.2	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	*5250.00	98.0 PK			3.51 V	335	57.9	40.1
2	*5250.00	90.0 AV			3.51 V	335	49.9	40.1
3	5350.00	58.0 PK	74.0	-16.0	3.51 V	335	55.9	2.1
4	5350.00	49.8 AV	54.0	-4.2	3.51 V	335	47.7	2.1
5	#10500.00	55.0 PK	68.2	-13.2	2.68 V	59	46.6	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.

RF Mode	802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.4 PK	74.0	-17.6	3.45 H	70	54.3	2.1
2	5460.00	47.2 AV	54.0	-6.8	3.45 H	70	45.1	2.1
3	#5470.00	56.9 PK	68.2	-11.3	3.45 H	70	54.8	2.1
4	*5570.00	92.0 PK			3.45 H	70	51.2	40.8
5	*5570.00	86.2 AV			3.45 H	70	45.4	40.8
6	#5725.00	58.6 PK	68.2	-9.6	3.45 H	70	54.9	3.7
7	11140.00	54.9 PK	74.0	-19.1	2.44 H	143	46.1	8.8
8	11140.00	45.9 AV	54.0	-8.1	2.44 H	143	37.1	8.8

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.7 PK	74.0	-17.3	1.09 V	346	54.6	2.1
2	5460.00	48.1 AV	54.0	-5.9	1.09 V	346	46.0	2.1
3	#5470.00	57.9 PK	68.2	-10.3	1.09 V	346	55.8	2.1
4	*5570.00	97.9 PK			1.09 V	346	57.1	40.8
5	*5570.00	88.8 AV			1.09 V	346	48.0	40.8
6	#5725.00	58.7 PK	68.2	-9.5	4.00 V	346	55.0	3.7
7	11140.00	55.4 PK	74.0	-18.6	2.59 V	59	46.6	8.8
8	11140.00	46.4 AV	54.0	-7.6	2.59 V	59	37.6	8.8

Remarks:

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



RF Mode	20 MHz Preamble 802.11ax (RU26)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 69% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.3 PK	74.0	-16.7	3.87 H	71	54.8	2.5
2	5150.00	47.2 AV	54.0	-6.8	3.87 H	71	44.7	2.5
3	*5180.00	110.2 PK			3.87 H	71	69.9	40.3
4	*5180.00	102.0 AV			3.87 H	71	61.7	40.3
5	#10360.00	56.2 PK	68.2	-12.0	2.51 H	156	47.7	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	5150.00	58.1 PK	74.0	-15.9	3.97 V	7	55.6	2.5
2	5150.00	47.8 AV	54.0	-6.2	3.97 V	7	45.3	2.5
3	*5180.00	112.7 PK			3.93 V	7	72.4	40.3
4	*5180.00	105.1 AV			3.93 V	7	64.8	40.3
5	#10360.00	57.2 PK	68.2	-11.0	2.73 V	74	48.7	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.



RF Mode	20 MHz Preamble 802.11ax (RU26)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 69% RH
Tested By	Greg Lin		

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	109.8 PK			3.79 H	69	69.8	40.0
2	*5320.00	100.9 AV			3.79 H	69	60.9	40.0
3	5350.00	56.4 PK	74.0	-17.6	3.79 H	69	54.3	2.1
4	5350.00	47.6 AV	54.0	-6.4	3.79 H	69	45.5	2.1
5	10640.00	55.4 PK	74.0	-18.6	2.63 H	157	46.8	8.6
6	10640.00	45.4 AV	54.0	-8.6	2.63 H	157	36.8	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	*5320.00	112.9 PK			3.43 V	334	72.9	40.0
2	*5320.00	103.6 AV			3.43 V	334	63.6	40.0
3	5350.00	56.8 PK	74.0	-17.2	3.43 V	334	54.7	2.1
4	5350.00	47.4 AV	54.0	-6.6	3.43 V	334	45.3	2.1
5	10620.00	56.0 PK	74.0	-18.0	2.74 V	71	47.3	8.7
6	10620.00	46.3 AV	54.0	-7.7	2.74 V	71	37.6	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.

RF Mode	20 MHz Preamble 802.11ax (RU26)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.6 PK	74.0	-16.4	3.84 H	78	55.5	2.1
2	5460.00	44.7 AV	54.0	-9.3	3.84 H	78	42.6	2.1
3	#5470.00	58.1 PK	68.2	-10.1	3.84 H	78	56.0	2.1
4	*5500.00	106.9 PK			3.84 H	78	66.8	40.1
5	*5500.00	96.8 AV			3.84 H	78	56.7	40.1
6	11000.00	55.1 PK	74.0	-18.9	2.66 H	153	46.4	8.7
7	11000.00	45.3 AV	54.0	-8.7	2.66 H	153	36.6	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	5460.00	56.9 PK	74.0	-17.1	3.47 V	336	54.8	2.1
2	5460.00	45.1 AV	54.0	-8.9	3.47 V	336	43.0	2.1
3	#5470.00	58.3 PK	68.2	-9.9	3.47 V	336	56.2	2.1
4	*5500.00	111.2 PK			3.47 V	336	71.1	40.1
5	*5500.00	100.4 AV			3.47 V	336	60.3	40.1
6	11000.00	55.9 PK	74.0	-18.1	2.77 V	72	47.2	8.7
7	11000.00	46.1 AV	54.0	-7.9	2.77 V	72	37.4	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.



RF Mode	20 MHz Preamble 802.11ax (RU26)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	109.7 PK			3.63 H	78	68.3	41.4
2	*5700.00	99.6 AV			3.63 H	78	58.2	41.4
3	#5725.00	62.0 PK	68.2	-6.2	3.63 H	78	58.3	3.7
4	11400.00	56.2 PK	74.0	-17.8	2.65 H	156	46.7	9.5
5	11400.00	46.1 AV	54.0	-7.9	2.65 H	156	36.6	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	*5700.00	110.6 PK			3.64 V	318	69.2	41.4
2	*5700.00	101.0 AV			3.64 V	318	59.6	41.4
3	#5725.00	60.9 PK	68.2	-7.3	3.64 V	318	57.2	3.7
4	11400.00	56.8 PK	74.0	-17.2	2.75 V	77	47.3	9.5
5	11400.00	47.1 AV	54.0	-6.9	2.75 V	77	37.6	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.



RF Mode	20 MHz Preamble 802.11ax (RU26)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.40	57.0 PK	68.2	-11.2	3.91 H	63	53.6	3.4
2	*5745.00	112.4 PK			3.91 H	63	70.7	41.7
3	*5745.00	103.1 AV			3.91 H	63	61.4	41.7
4	#5960.80	57.2 PK	68.2	-11.0	3.91 H	63	53.3	3.9
5	11490.00	57.3 PK	74.0	-16.7	2.33 H	168	47.7	9.6
6	11490.00	47.1 AV	54.0	-6.9	2.33 H	168	37.5	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	#5630.40	57.8 PK	68.2	-10.4	1.19 V	332	54.5	3.3
2	*5745.00	115.0 PK			1.19 V	332	73.3	41.7
3	*5745.00	105.9 AV			1.19 V	332	64.2	41.7
4	#5931.20	57.7 PK	68.2	-10.5	1.19 V	332	54.0	3.7
5	11490.00	58.2 PK	74.0	-15.8	2.67 V	69	48.6	9.6
6	11490.00	48.0 AV	54.0	-6.0	2.67 V	69	38.4	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.

RF Mode	20 MHz Preamble 802.11ax (RU52)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 69% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.4 PK	74.0	-16.6	3.90 H	66	54.9	2.5
2	5150.00	47.4 AV	54.0	-6.6	3.90 H	66	44.9	2.5
3	*5180.00	109.0 PK			3.90 H	66	68.7	40.3
4	*5180.00	99.0 AV			3.90 H	66	58.7	40.3
5	#10360.00	56.4 PK	68.2	-11.8	2.52 H	163	47.9	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	5150.00	58.0 PK	74.0	-16.0	3.71 V	8	55.5	2.5
2	5150.00	47.8 AV	54.0	-6.2	3.71 V	8	45.3	2.5
3	*5180.00	112.0 PK			3.71 V	8	71.7	40.3
4	*5180.00	101.8 AV			3.71 V	8	61.5	40.3
5	#10360.00	57.0 PK	68.2	-11.2	2.72 V	70	48.5	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.

RF Mode	20 MHz Preamble 802.11ax (RU52)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 69% RH
Tested By	Greg Lin		

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	108.2 PK			3.79 H	69	68.2	40.0
2	*5320.00	99.4 AV			3.79 H	69	59.4	40.0
3	5350.00	56.5 PK	74.0	-17.5	3.79 H	69	54.4	2.1
4	5350.00	47.7 AV	54.0	-6.3	3.79 H	69	45.6	2.1
5	10640.00	55.1 PK	74.0	-18.9	2.64 H	148	46.5	8.6
6	10640.00	45.3 AV	54.0	-8.7	2.64 H	148	36.7	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	*5320.00	111.4 PK			3.47 V	336	71.4	40.0
2	*5320.00	102.1 AV			3.47 V	336	62.1	40.0
3	5350.00	56.9 PK	74.0	-17.1	3.47 V	336	54.8	2.1
4	5350.00	47.6 AV	54.0	-6.4	3.47 V	336	45.5	2.1
5	10620.00	55.9 PK	74.0	-18.1	2.73 V	70	47.2	8.7
6	10620.00	46.1 AV	54.0	-7.9	2.73 V	70	37.4	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.



RF Mode	20 MHz Preamble 802.11ax (RU52)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.1 PK	74.0	-16.9	3.83 H	81	55.0	2.1
2	5460.00	44.2 AV	54.0	-9.8	3.83 H	81	42.1	2.1
3	#5470.00	57.3 PK	68.2	-10.9	3.83 H	81	55.2	2.1
4	*5500.00	107.5 PK			3.83 H	81	67.4	40.1
5	*5500.00	95.1 AV			3.83 H	81	55.0	40.1
6	11000.00	55.5 PK	74.0	-18.5	2.63 H	157	46.8	8.7
7	11000.00	45.5 AV	54.0	-8.5	2.63 H	157	36.8	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	5460.00	57.6 PK	74.0	-16.4	3.85 V	337	55.5	2.1
2	5460.00	44.5 AV	54.0	-9.5	3.85 V	337	42.4	2.1
3	#5470.00	58.3 PK	68.2	-9.9	3.85 V	337	56.2	2.1
4	*5500.00	111.6 PK			3.85 V	337	71.5	40.1
5	*5500.00	99.7 AV			3.85 V	337	59.6	40.1
6	11000.00	55.8 PK	74.0	-18.2	2.75 V	68	47.1	8.7
7	11000.00	46.0 AV	54.0	-8.0	2.75 V	68	37.3	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.



RF Mode	20 MHz Preamble 802.11ax (RU52)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	109.6 PK			3.37 H	78	68.2	41.4
2	*5700.00	97.9 AV			3.37 H	78	56.5	41.4
3	#5725.00	60.0 PK	68.2	-8.2	3.37 H	78	56.3	3.7
4	11400.00	56.3 PK	74.0	-17.7	2.66 H	153	46.8	9.5
5	11400.00	45.9 AV	54.0	-8.1	2.66 H	153	36.4	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	*5700.00	109.6 PK			3.86 V	319	68.2	41.4
2	*5700.00	98.9 AV			3.86 V	319	57.5	41.4
3	#5725.00	67.7 PK	68.2	-0.5	3.86 V	319	64.0	3.7
4	11400.00	56.6 PK	74.0	-17.4	2.80 V	75	47.1	9.5
5	11400.00	47.0 AV	54.0	-7.0	2.80 V	75	37.5	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.



RF Mode	20 MHz Preamble 802.11ax (RU52)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68% RH
Tested By	Greg Lin		

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	#5632.80	57.7 PK	68.2	-10.5	3.89 H	61	54.4	3.3
2	*5745.00	109.5 PK			3.89 H	61	67.8	41.7
3	*5745.00	100.2 AV			3.89 H	61	58.5	41.7
4	#5934.40	57.4 PK	68.2	-10.8	3.89 H	61	53.7	3.7
5	11490.00	57.1 PK	74.0	-16.9	2.33 H	154	47.5	9.6
6	11490.00	46.9 AV	54.0	-7.1	2.33 H	154	37.3	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	#5631.20	58.0 PK	68.2	-10.2	1.18 V	336	54.7	3.3
2	*5745.00	112.8 PK			1.18 V	336	71.1	41.7
3	*5745.00	103.2 AV			1.18 V	336	61.5	41.7
4	#5976.00	57.5 PK	68.2	-10.7	1.18 V	336	53.5	4.0
5	11490.00	58.1 PK	74.0	-15.9	2.69 V	70	48.5	9.6
6	11490.00	47.9 AV	54.0	-6.1	2.69 V	70	38.3	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.



RF Mode	20 MHz Preamble 802.11ax (RU106)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 69% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.6 PK	74.0	-16.4	3.87 H	68	55.1	2.5
2	5150.00	47.7 AV	54.0	-6.3	3.87 H	68	45.2	2.5
3	*5180.00	106.1 PK			3.87 H	68	65.8	40.3
4	*5180.00	96.2 AV			3.87 H	68	55.9	40.3
5	#10360.00	56.3 PK	68.2	-11.9	2.45 H	157	47.8	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	5150.00	58.2 PK	74.0	-15.8	3.68 V	7	55.7	2.5
2	5150.00	47.9 AV	54.0	-6.1	3.68 V	7	45.4	2.5
3	*5180.00	109.2 PK			3.68 V	7	68.9	40.3
4	*5180.00	99.1 AV			3.68 V	7	58.8	40.3
5	#10360.00	56.9 PK	68.2	-11.3	2.73 V	66	48.4	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.

RF Mode	20 MHz Preamble 802.11ax (RU106)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 69% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	105.5 PK			3.83 H	68	65.5	40.0
2	*5320.00	96.3 AV			3.83 H	68	56.3	40.0
3	5350.00	56.5 PK	74.0	-17.5	3.83 H	68	54.4	2.1
4	5350.00	47.9 AV	54.0	-6.1	3.83 H	68	45.8	2.1
5	10640.00	55.0 PK	74.0	-19.0	2.67 H	152	46.4	8.6
6	10640.00	45.2 AV	54.0	-8.8	2.67 H	152	36.6	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	*5320.00	108.4 PK			3.49 V	333	68.4	40.0
2	*5320.00	99.0 AV			3.49 V	333	59.0	40.0
3	5350.00	57.1 PK	74.0	-16.9	3.49 V	333	55.0	2.1
4	5350.00	47.8 AV	54.0	-6.2	3.49 V	333	45.7	2.1
5	10620.00	55.8 PK	74.0	-18.2	2.69 V	71	47.1	8.7
6	10620.00	45.9 AV	54.0	-8.1	2.69 V	71	37.2	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.

RF Mode	20 MHz Preamble 802.11ax (RU106)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.5 PK	74.0	-16.5	3.83 H	80	55.4	2.1
2	5460.00	44.3 AV	54.0	-9.7	3.83 H	80	42.2	2.1
3	#5470.00	57.9 PK	68.2	-10.3	3.83 H	80	55.8	2.1
4	*5500.00	103.6 PK			3.83 H	80	63.5	40.1
5	*5500.00	92.1 AV			3.83 H	80	52.0	40.1
6	11000.00	55.2 PK	74.0	-18.8	2.64 H	156	46.5	8.7
7	11000.00	45.3 AV	54.0	-8.7	2.64 H	156	36.6	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	5460.00	57.6 PK	74.0	-16.4	3.83 V	339	55.5	2.1
2	5460.00	44.4 AV	54.0	-9.6	3.83 V	339	42.3	2.1
3	#5470.00	58.2 PK	68.2	-10.0	3.83 V	339	56.1	2.1
4	*5500.00	108.6 PK			3.83 V	339	68.5	40.1
5	*5500.00	96.6 AV			3.83 V	339	56.5	40.1
6	11000.00	55.8 PK	74.0	-18.2	2.74 V	71	47.1	8.7
7	11000.00	46.2 AV	54.0	-7.8	2.74 V	71	37.5	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.

RF Mode	20 MHz Preamble 802.11ax (RU106)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	106.6 PK			3.90 H	78	65.2	41.4
2	*5700.00	95.0 AV			3.90 H	78	53.6	41.4
3	#5725.00	59.0 PK	68.2	-9.2	3.90 H	78	55.3	3.7
4	11400.00	56.1 PK	74.0	-17.9	2.66 H	143	46.6	9.5
5	11400.00	46.1 AV	54.0	-7.9	2.66 H	143	36.6	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	*5700.00	108.3 PK			3.87 V	319	66.9	41.4
2	*5700.00	96.2 AV			3.87 V	319	54.8	41.4
3	#5725.00	59.2 PK	68.2	-9.0	3.87 V	319	55.5	3.7
4	11400.00	56.5 PK	74.0	-17.5	2.71 V	69	47.0	9.5
5	11400.00	46.5 AV	54.0	-7.5	2.71 V	69	37.0	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.

RF Mode	20 MHz Preamble 802.11ax (RU106)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68% RH
Tested By	Greg Lin		

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	#5634.80	57.2 PK	68.2	-11.0	3.98 H	67	53.8	3.4
2	*5745.00	106.9 PK			3.98 H	67	65.2	41.7
3	*5745.00	97.6 AV			3.98 H	67	55.9	41.7
4	#5994.00	58.4 PK	68.2	-9.8	3.98 H	67	54.2	4.2
5	11490.00	57.0 PK	74.0	-17.0	2.43 H	161	47.4	9.6
6	11490.00	46.8 AV	54.0	-7.2	2.43 H	161	37.2	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	#5635.20	58.1 PK	68.2	-10.1	1.21 V	333	54.7	3.4
2	*5745.00	109.2 PK			1.21 V	333	67.5	41.7
3	*5745.00	100.1 AV			1.21 V	333	58.4	41.7
4	#5961.60	58.1 PK	68.2	-10.1	1.21 V	333	54.2	3.9
5	11490.00	58.0 PK	74.0	-16.0	2.71 V	66	48.4	9.6
6	11490.00	47.8 AV	54.0	-6.2	2.71 V	66	38.2	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.

RF Mode	40 MHz Preamble 802.11ax (RU242)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 69% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.5 PK	74.0	-16.5	3.92 H	65	55.0	2.5
2	5150.00	47.4 AV	54.0	-6.6	3.92 H	65	44.9	2.5
3	*5190.00	105.5 PK			3.92 H	65	65.2	40.3
4	*5190.00	96.0 AV			3.92 H	65	55.7	40.3
5	#10380.00	55.8 PK	68.2	-12.4	2.43 H	161	47.3	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	5150.00	57.9 PK	74.0	-16.1	3.72 V	12	55.4	2.5
2	5150.00	47.7 AV	54.0	-6.3	3.72 V	12	45.2	2.5
3	*5190.00	105.2 PK			3.71 V	12	64.9	40.3
4	*5190.00	95.6 AV			3.71 V	12	55.3	40.3
5	#10380.00	56.6 PK	68.2	-11.6	2.83 V	82	48.1	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.



RF Mode	40 MHz Preamble 802.11ax (RU242)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 69% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	102.1 PK			3.91 H	61	62.1	40.0
2	*5310.00	93.3 AV			3.91 H	61	53.3	40.0
3	5350.00	55.7 PK	74.0	-18.3	3.91 H	61	53.6	2.1
4	5350.00	47.3 AV	54.0	-6.7	3.91 H	61	45.2	2.1
5	10620.00	55.0 PK	74.0	-19.0	2.53 H	152	46.3	8.7
6	10620.00	45.2 AV	54.0	-8.8	2.53 H	152	36.5	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	*5310.00	104.6 PK			3.47 V	337	64.6	40.0
2	*5310.00	96.2 AV			3.47 V	337	56.2	40.0
3	5350.00	56.9 PK	74.0	-17.1	3.47 V	337	54.8	2.1
4	5350.00	47.4 AV	54.0	-6.6	3.47 V	337	45.3	2.1
5	10620.00	55.9 PK	74.0	-18.1	2.71 V	74	47.2	8.7
6	10620.00	45.6 AV	54.0	-8.4	2.71 V	74	36.9	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.



RF Mode	40 MHz Preamble 802.11ax (RU242)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.5 PK	74.0	-16.5	3.99 H	86	55.4	2.1
2	5460.00	44.4 AV	54.0	-9.6	3.99 H	86	42.3	2.1
3	#5470.00	58.1 PK	68.2	-10.1	3.99 H	86	56.0	2.1
4	*5510.00	102.5 PK			3.99 H	86	62.2	40.3
5	*5510.00	90.3 AV			3.99 H	86	50.0	40.3
6	11020.00	55.2 PK	74.0	-18.8	2.63 H	144	46.5	8.7
7	11020.00	45.4 AV	54.0	-8.6	2.63 H	144	36.7	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	5460.00	57.4 PK	74.0	-16.6	3.19 V	319	55.3	2.1
2	5460.00	44.4 AV	54.0	-9.6	3.19 V	319	42.3	2.1
3	#5470.00	57.6 PK	68.2	-10.6	3.19 V	319	55.5	2.1
4	*5510.00	105.9 PK			3.19 V	319	65.6	40.3
5	*5510.00	94.1 AV			3.19 V	319	53.8	40.3
6	11020.00	55.9 PK	74.0	-18.1	2.75 V	75	47.2	8.7
7	11020.00	46.1 AV	54.0	-7.9	2.75 V	75	37.4	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.



RF Mode	40 MHz Preamble 802.11ax (RU242)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	104.7 PK			3.33 H	68	63.3	41.4
2	*5670.00	91.8 AV			3.33 H	68	50.4	41.4
3	#5725.00	58.6 PK	68.2	-9.6	3.33 H	68	54.9	3.7
4	11340.00	55.9 PK	74.0	-18.1	2.65 H	143	46.4	9.5
5	11340.00	46.2 AV	54.0	-7.8	2.65 H	143	36.7	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	*5670.00	105.2 PK			3.18 V	342	63.8	41.4
2	*5670.00	93.4 AV			3.18 V	342	52.0	41.4
3	#5725.00	59.4 PK	68.2	-8.8	3.18 V	342	55.7	3.7
4	11340.00	56.5 PK	74.0	-17.5	2.68 V	0	47.0	9.5
5	11340.00	46.6 AV	54.0	-7.4	2.68 V	0	37.1	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.
6. " # " : The radiated frequency is out of the restricted band.



RF Mode	40 MHz Preamble 802.11ax (RU242)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68% RH
Tested By	Greg Lin		

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	#5632.00	57.4 PK	68.2	-10.8	3.97 H	59	54.1	3.3
2	*5755.00	104.6 PK			3.97 H	59	62.8	41.8
3	*5755.00	95.3 AV			3.97 H	59	53.5	41.8
4	#5963.60	58.1 PK	68.2	-10.1	3.97 H	59	54.2	3.9
5	11510.00	57.0 PK	74.0	-17.0	2.49 H	158	47.4	9.6
6	11510.00	46.8 AV	54.0	-7.2	2.49 H	158	37.2	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	#5635.20	58.0 PK	68.2	-10.2	1.01 V	330	54.6	3.4
2	*5755.00	107.6 PK			1.01 V	330	65.8	41.8
3	*5755.00	98.2 AV			1.01 V	330	56.4	41.8
4	#5980.00	59.4 PK	68.2	-8.8	1.01 V	330	55.4	4.0
5	11510.00	57.5 PK	74.0	-16.5	2.84 V	76	47.9	9.6
6	11510.00	47.2 AV	54.0	-6.8	2.84 V	76	37.6	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.



RF Mode	80 MHz Preamble 802.11ax (RU484)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 69% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.9 PK	74.0	-16.1	3.86 H	67	55.4	2.5
2	5150.00	47.8 AV	54.0	-6.2	3.86 H	67	45.3	2.5
3	*5210.00	100.1 PK			3.86 H	67	59.9	40.2
4	*5210.00	90.6 AV			3.86 H	67	50.4	40.2
5	#10420.00	55.3 PK	68.2	-12.9	2.59 H	156	46.9	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	5150.00	58.3 PK	74.0	-15.7	3.66 V	11	55.8	2.5
2	5150.00	48.2 AV	54.0	-5.8	3.66 V	11	45.7	2.5
3	*5210.00	103.1 PK			3.66 V	11	62.9	40.2
4	*5210.00	93.5 AV			3.66 V	11	53.3	40.2
5	#10420.00	56.1 PK	68.2	-12.1	2.79 V	83	47.7	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.



RF Mode	80 MHz Preamble 802.11ax (RU484)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	97.9 PK			3.87 H	74	57.9	40.0
2	*5290.00	89.5 AV			3.87 H	74	49.5	40.0
3	5350.00	56.9 PK	74.0	-17.1	3.87 H	74	54.8	2.1
4	5350.00	47.5 AV	54.0	-6.5	3.87 H	74	45.4	2.1
5	#10580.00	55.5 PK	68.2	-12.7	2.63 H	149	46.8	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	*5290.00	102.7 PK			3.31 V	342	62.7	40.0
2	*5290.00	93.9 AV			3.31 V	342	53.9	40.0
3	5350.00	57.3 PK	74.0	-16.7	3.31 V	342	55.2	2.1
4	5350.00	48.0 AV	54.0	-6.0	3.31 V	342	45.9	2.1
5	#10580.00	56.0 PK	68.2	-12.2	2.74 V	58	47.3	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.



RF Mode	80 MHz Preamble 802.11ax (RU484)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	55.9 PK	74.0	-18.1	3.94 H	83	53.8	2.1
2	5460.00	47.4 AV	54.0	-6.6	3.94 H	83	45.3	2.1
3	#5470.00	56.5 PK	68.2	-11.7	3.94 H	83	54.4	2.1
4	*5530.00	98.5 PK			3.94 H	83	58.1	40.4
5	*5530.00	90.7 AV			3.94 H	83	50.3	40.4
6	11060.00	55.3 PK	74.0	-18.7	2.31 H	147	46.5	8.8
7	11060.00	46.5 AV	54.0	-7.5	2.31 H	147	37.7	8.8

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.4 PK	74.0	-16.6	1.27 V	325	55.3	2.1
2	5460.00	47.6 AV	54.0	-6.4	1.27 V	325	45.5	2.1
3	#5470.00	57.9 PK	68.2	-10.3	1.27 V	325	55.8	2.1
4	*5530.00	102.3 PK			1.27 V	325	61.9	40.4
5	*5530.00	93.9 AV			1.27 V	325	53.5	40.4
6	11060.00	55.8 PK	74.0	-18.2	2.63 V	59	47.0	8.8
7	11060.00	46.7 AV	54.0	-7.3	2.63 V	59	37.9	8.8

Remarks:

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



RF Mode	80 MHz Preamble 802.11ax (RU484)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.80	58.4 PK	68.2	-9.8	3.90 H	63	55.0	3.4
2	*5775.00	101.0 PK			3.90 H	63	59.3	41.7
3	*5775.00	91.6 AV			3.90 H	63	49.9	41.7
4	#5954.00	58.2 PK	68.2	-10.0	3.93 H	63	54.4	3.8
5	11550.00	56.7 PK	74.0	-17.3	2.42 H	152	47.1	9.6
6	11550.00	46.5 AV	54.0	-7.5	2.42 H	152	36.9	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	#5648.40	58.1 PK	68.2	-10.1	1.00 V	334	54.7	3.4
2	*5775.00	103.9 PK			1.00 V	334	62.2	41.7
3	*5775.00	94.3 AV			1.00 V	334	52.6	41.7
4	#5976.40	60.3 PK	68.2	-7.9	1.00 V	334	56.3	4.0
5	11550.00	57.4 PK	74.0	-16.6	2.82 V	76	47.8	9.6
6	11550.00	47.1 AV	54.0	-6.9	2.82 V	76	37.5	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.

RF Mode	160 MHz Preamble 802.11ax (RU996)	Channel	CH 50 : 5250 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.2 PK	74.0	-16.8	3.74 H	68	54.7	2.5
2	5150.00	48.5 AV	54.0	-5.5	3.74 H	68	46.0	2.5
3	*5250.00	96.8 PK			3.74 H	68	56.7	40.1
4	*5250.00	88.7 AV			3.74 H	68	48.6	40.1
5	#10500.00	54.8 PK	68.2	-13.4	2.57 H	146	46.4	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	5150.00	58.9 PK	74.0	-15.1	3.38 V	337	56.4	2.5
2	5150.00	48.8 AV	54.0	-5.2	3.38 V	337	46.3	2.5
3	*5250.00	99.5 PK			3.38 V	337	59.4	40.1
4	*5250.00	91.3 AV			3.38 V	337	51.2	40.1
5	#10500.00	55.5 PK	68.2	-12.7	2.76 V	69	47.1	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.



RF Mode	160 MHz Preamble 802.11ax (RU996)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.3 PK	74.0	-17.7	3.54 H	77	54.2	2.1
2	5460.00	47.2 AV	54.0	-6.8	3.54 H	77	45.1	2.1
3	#5470.00	56.8 PK	68.2	-11.4	3.54 H	77	54.7	2.1
4	*5570.00	97.4 PK			3.54 H	77	56.6	40.8
5	*5570.00	88.6 AV			3.54 H	77	47.8	40.8
6	#5725.00	58.2 PK	68.2	-10.0	3.54 H	77	54.5	3.7
7	11140.00	55.1 PK	74.0	-18.9	2.49 H	151	46.3	8.8
8	11140.00	46.0 AV	54.0	-8.0	2.49 H	151	37.2	8.8

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.6 PK	74.0	-17.4	1.14 V	326	54.5	2.1
2	5460.00	47.9 AV	54.0	-6.1	1.14 V	326	45.8	2.1
3	#5470.00	57.7 PK	68.2	-10.5	1.14 V	326	55.6	2.1
4	*5570.00	100.3 PK			1.14 V	326	59.5	40.8
5	*5570.00	91.3 AV			1.14 V	326	50.5	40.8
6	#5725.00	58.4 PK	68.2	-9.8	1.14 V	326	54.7	3.7
7	11140.00	55.2 PK	74.0	-18.8	2.63 V	64	46.4	8.8
8	11140.00	46.3 AV	54.0	-7.7	2.63 V	64	37.5	8.8

Remarks:

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



RF Mode	160 MHz Preamble 802.11ax (RU996/S67)	Channel	CH 50 : 5250 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 66% RH
Tested By	Greg Lin		

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	*5250.00	96.9 PK			3.88 H	64	56.8	40.1
2	*5250.00	88.7 AV			3.88 H	64	48.6	40.1
3	5350.00	57.0 PK	74.0	-17.0	3.88 H	64	54.9	2.1
4	5350.00	48.4 AV	54.0	-5.6	3.88 H	64	46.3	2.1
5	#10500.00	54.9 PK	68.2	-13.3	2.53 H	151	46.5	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	*5250.00	99.2 PK			3.31 V	334	59.1	40.1
2	*5250.00	90.9 AV			3.31 V	334	50.8	40.1
3	5350.00	57.8 PK	74.0	-16.2	3.31 V	334	55.7	2.1
4	5350.00	49.4 AV	54.0	-4.6	3.31 V	334	47.3	2.1
5	#10500.00	55.6 PK	68.2	-12.6	2.73 V	71	47.2	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.

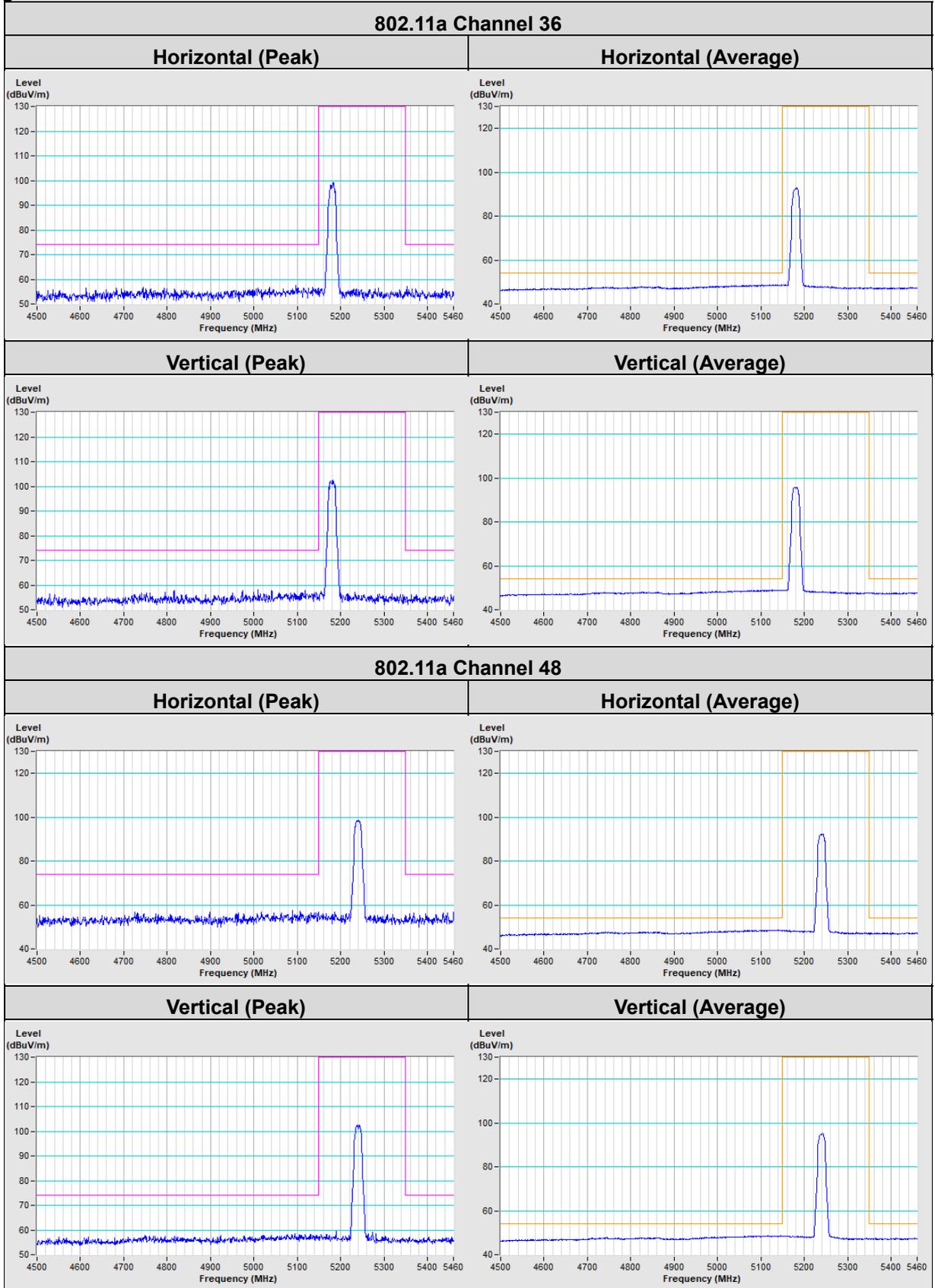
RF Mode	160 MHz Preamble 802.11ax (RU996/S67)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22°C, 68% RH
Tested By	Greg Lin		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.2 PK	74.0	-17.8	3.58 H	73	54.1	2.1
2	5460.00	47.0 AV	54.0	-7.0	3.58 H	73	44.9	2.1
3	#5470.00	56.4 PK	68.2	-11.8	3.58 H	73	54.3	2.1
4	*5570.00	97.6 PK			3.58 H	73	56.8	40.8
5	*5570.00	88.7 AV			3.58 H	73	47.9	40.8
6	#5725.00	58.5 PK	68.2	-9.7	3.58 H	73	54.8	3.7
7	11140.00	55.0 PK	74.0	-19.0	2.53 H	153	46.2	8.8
8	11140.00	45.9 AV	54.0	-8.1	2.53 H	153	37.1	8.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.4 PK	74.0	-17.6	1.34 V	328	54.3	2.1
2	5460.00	47.8 AV	54.0	-6.2	1.34 V	328	45.7	2.1
3	#5470.00	57.5 PK	68.2	-10.7	1.34 V	328	55.4	2.1
4	*5570.00	100.0 PK			1.34 V	328	59.2	40.8
5	*5570.00	91.2 AV			1.34 V	328	50.4	40.8
6	#5725.00	58.5 PK	68.2	-9.7	1.34 V	328	54.8	3.7
7	11140.00	55.6 PK	74.0	-18.4	2.63 V	62	46.8	8.8
8	11140.00	46.5 AV	54.0	-7.5	2.63 V	62	37.7	8.8

Remarks:

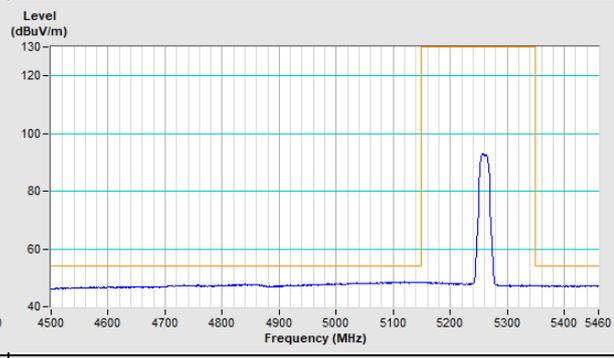
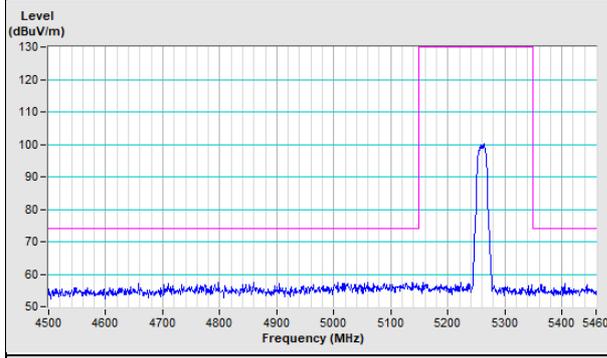
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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

Band Edge



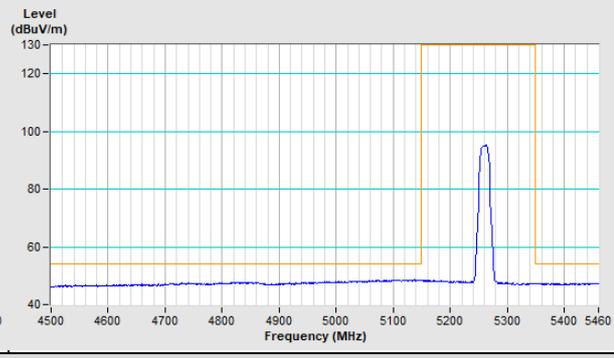
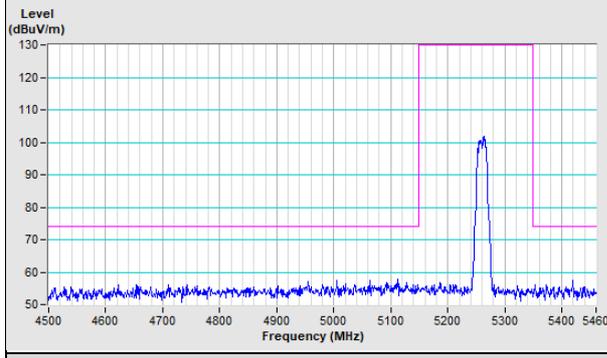
802.11a Channel 52

Horizontal (Peak) **Horizontal (Average)**



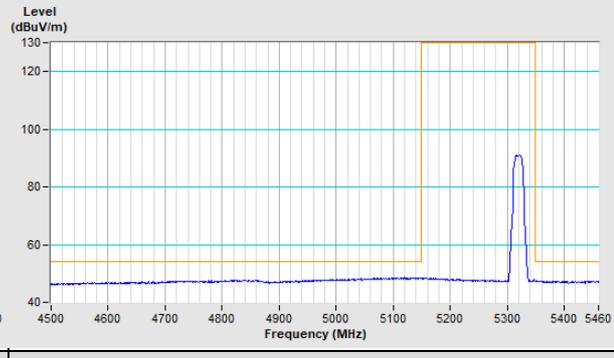
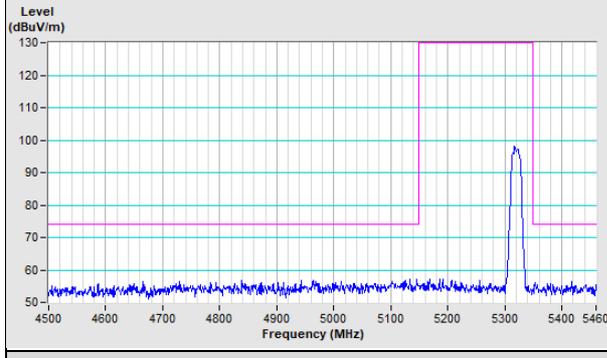
Vertical (Peak)

Vertical (Average)



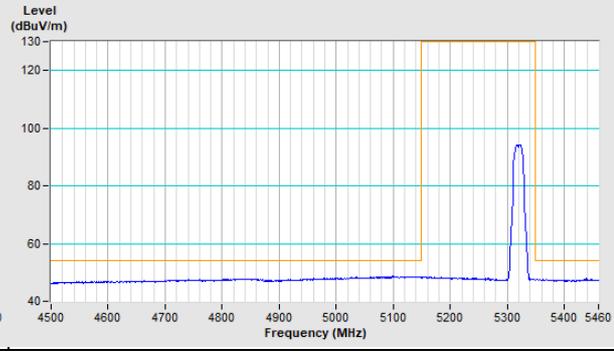
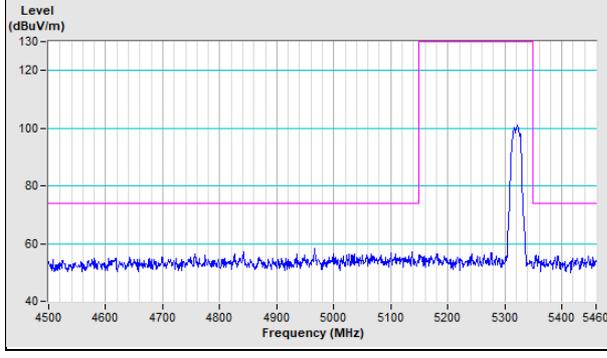
802.11a Channel 64

Horizontal (Peak) **Horizontal (Average)**



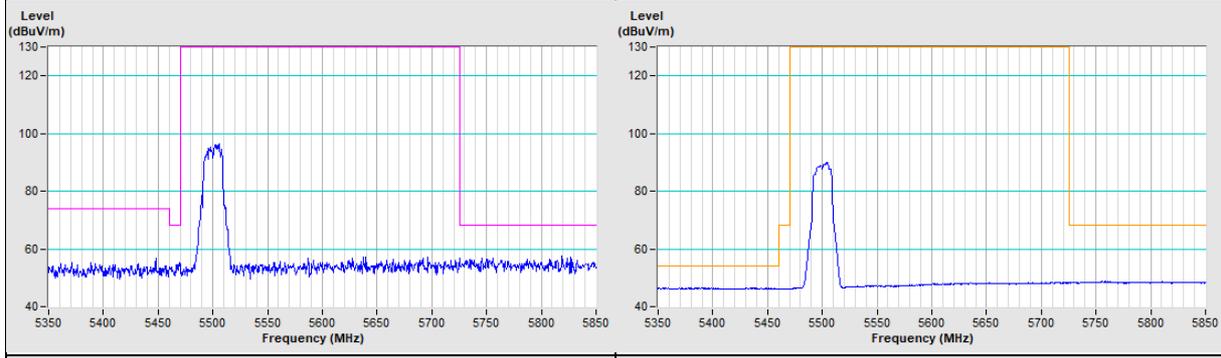
Vertical (Peak)

Vertical (Average)

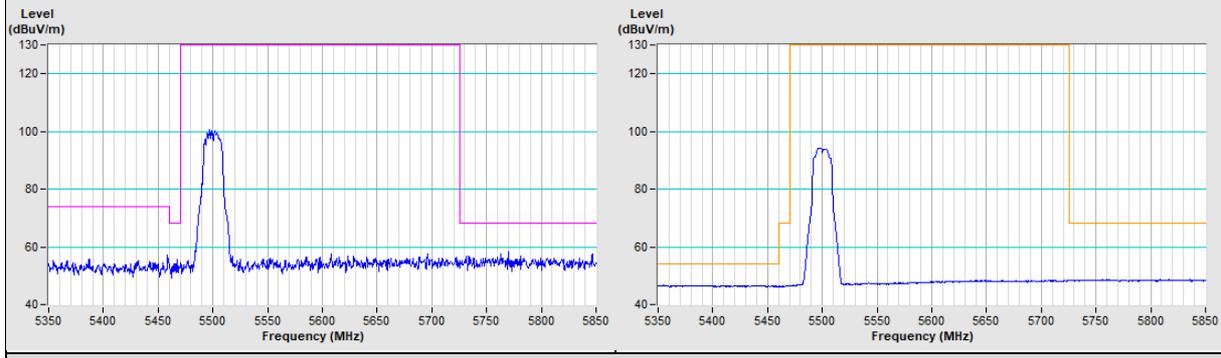


802.11a Channel 100

Horizontal (Peak) **Horizontal (Average)**

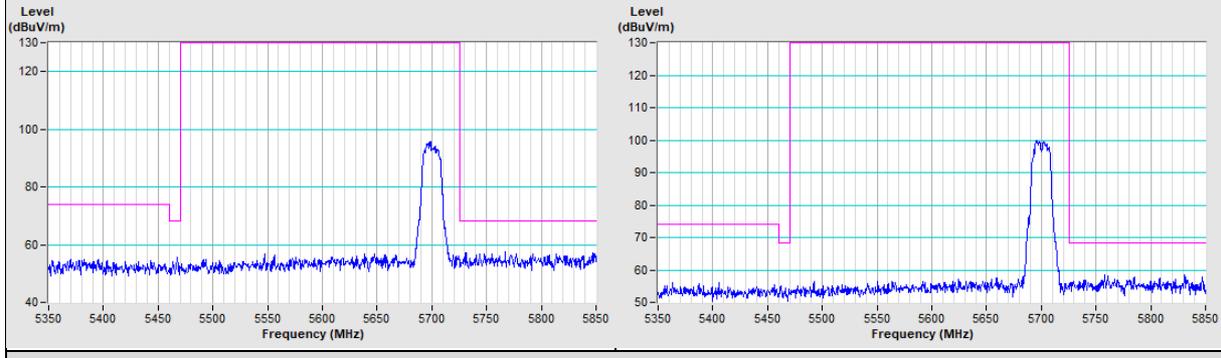


Vertical (Peak) **Vertical (Average)**



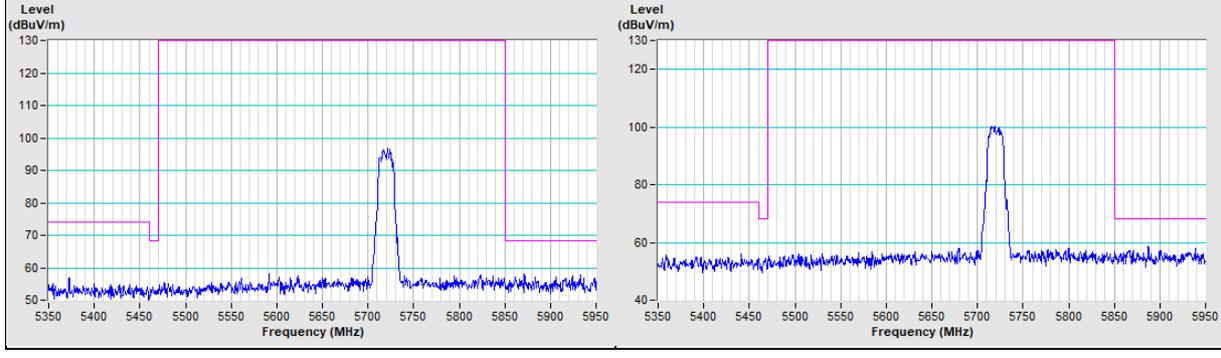
802.11a Channel 140

Horizontal (Peak) **Vertical (Peak)**

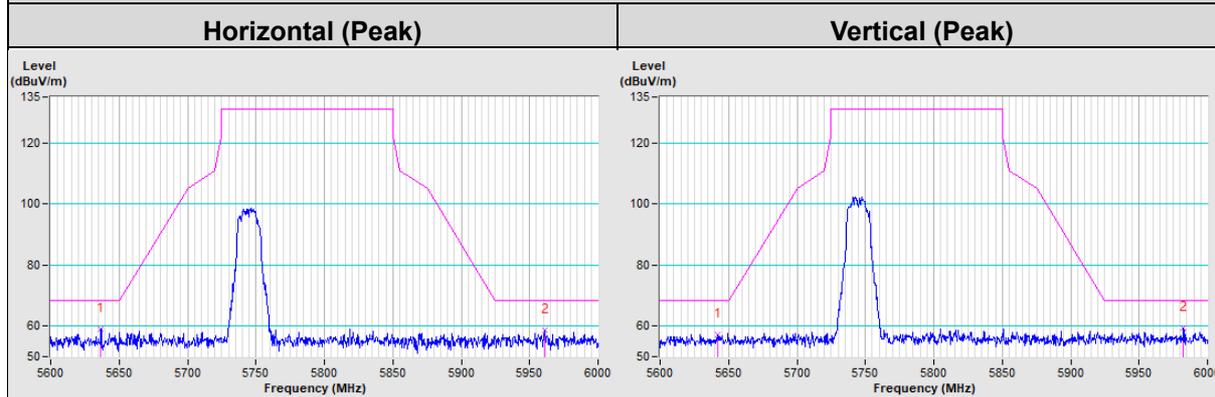


802.11a Channel 144

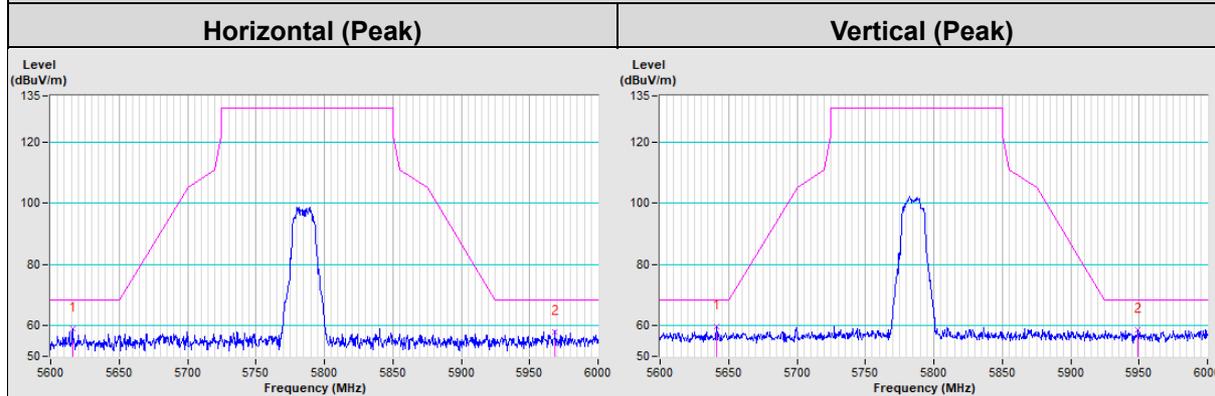
Horizontal (Peak) **Vertical (Peak)**



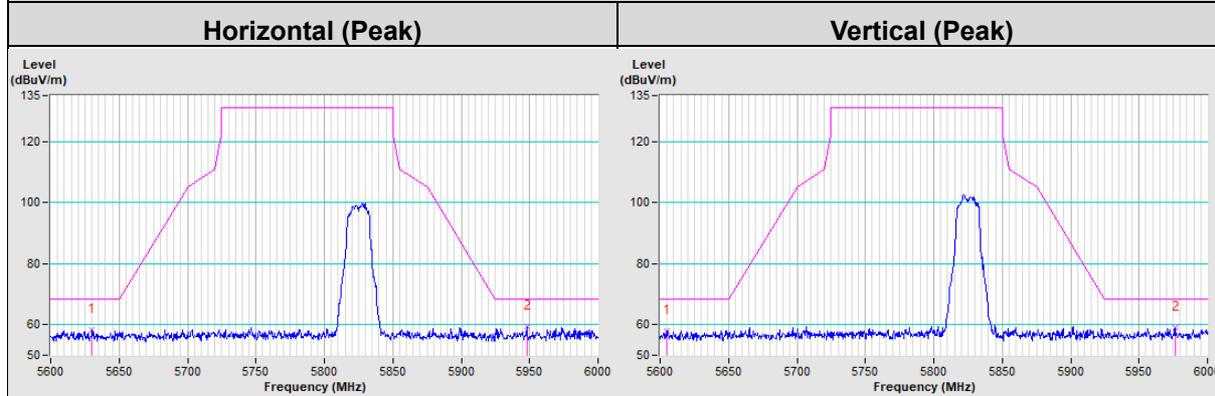
802.11a Channel 149



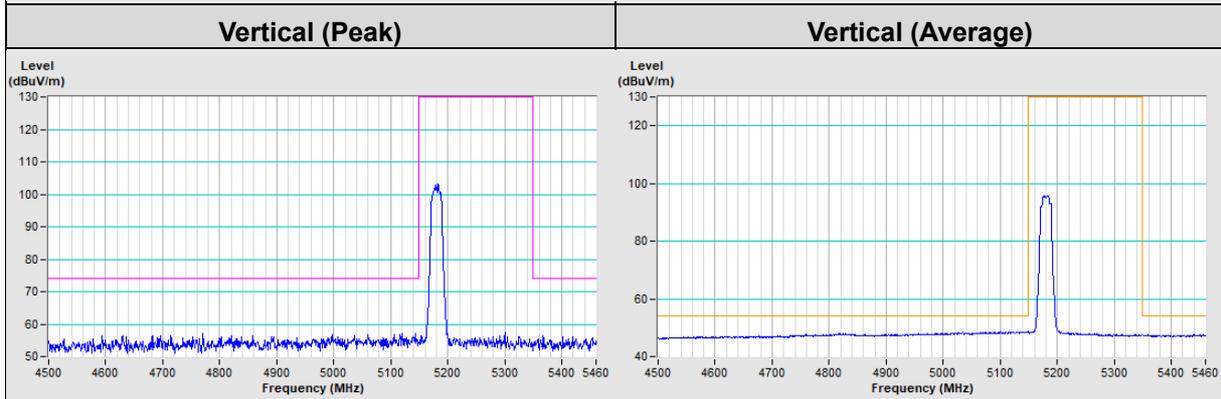
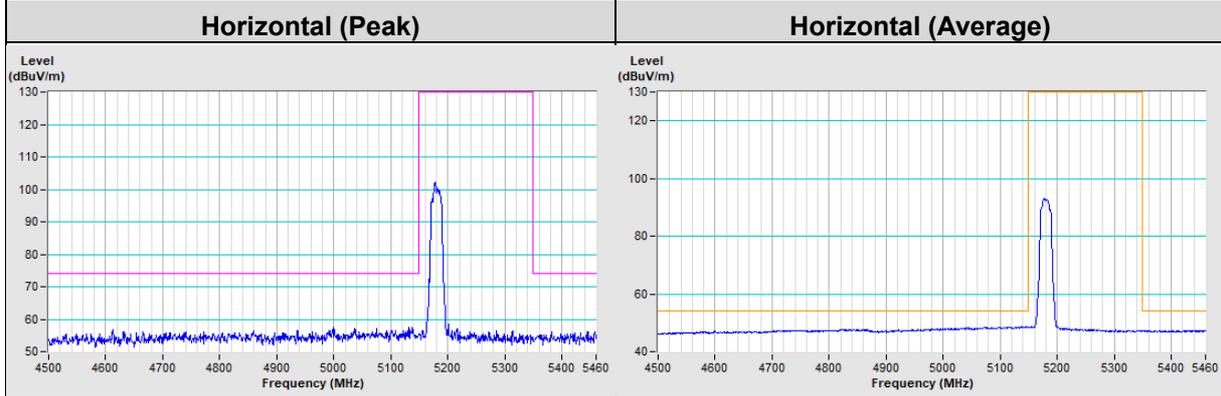
802.11a Channel 157



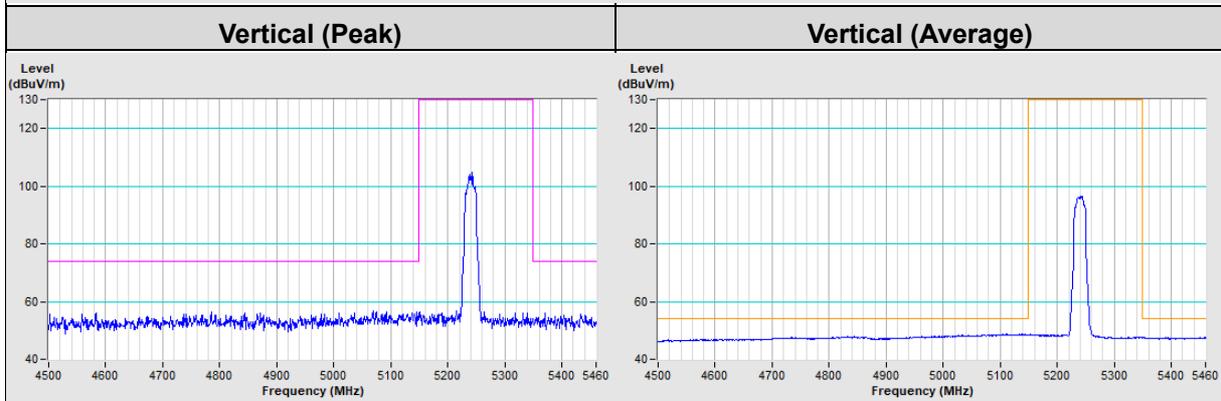
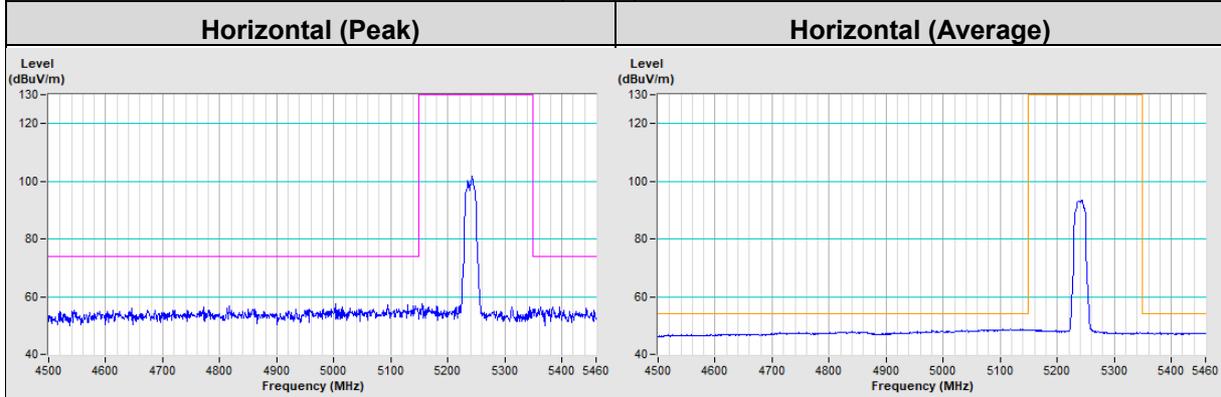
802.11a Channel 165



802.11ax (HE20) Channel 36



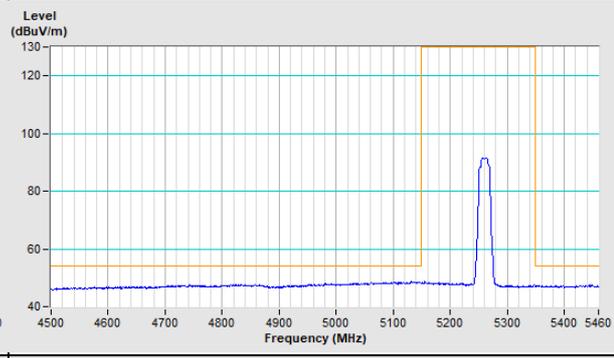
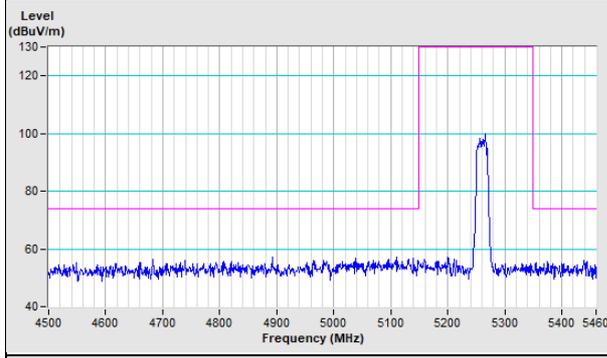
802.11ax (HE20) Channel 48





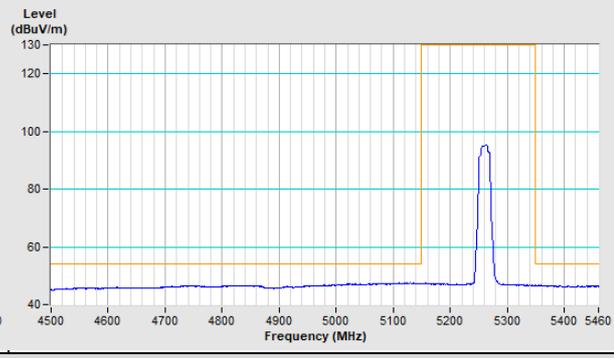
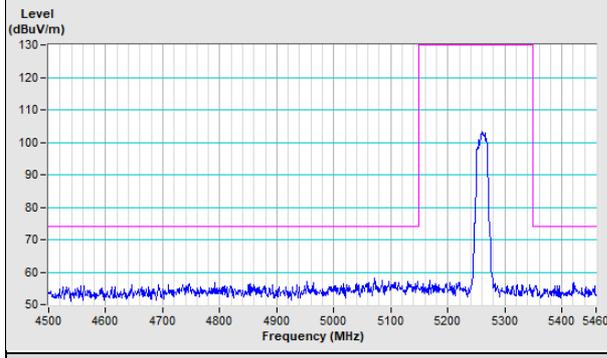
802.11ax (HE20) Channel 52

Horizontal (Peak) **Horizontal (Average)**



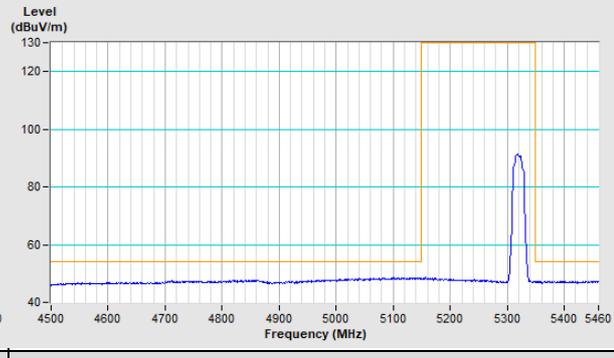
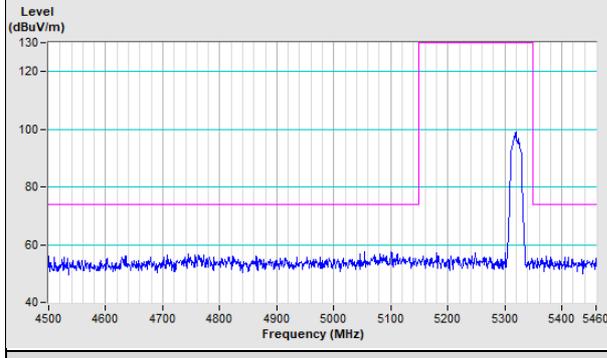
Vertical (Peak)

Vertical (Average)



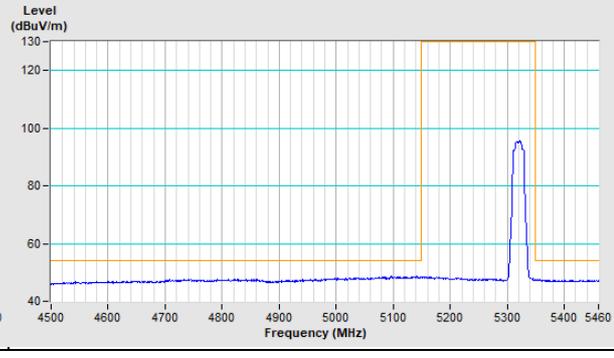
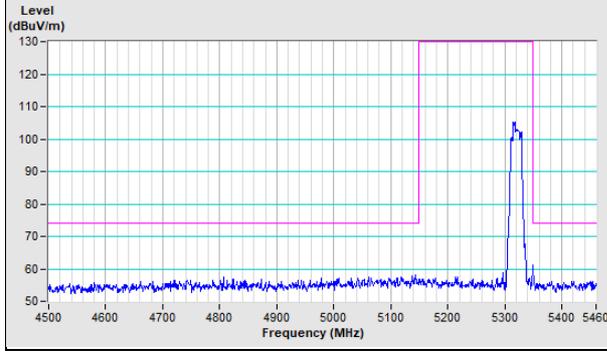
802.11ax (HE20) Channel 64

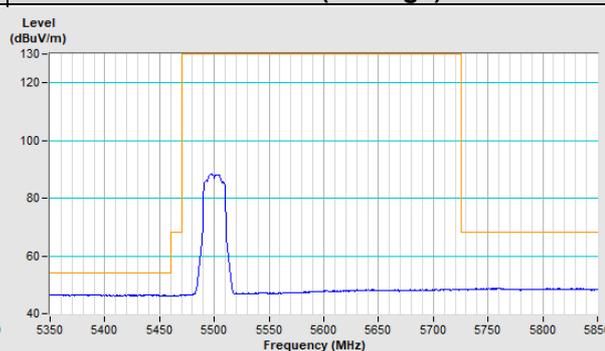
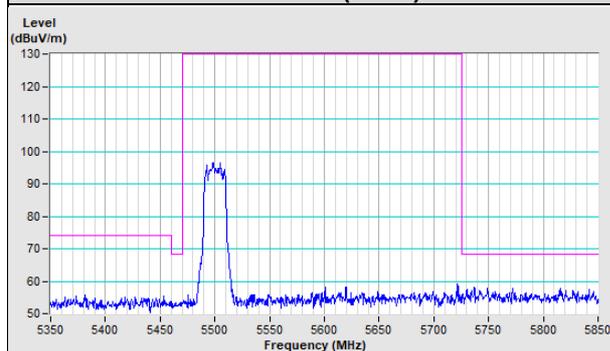
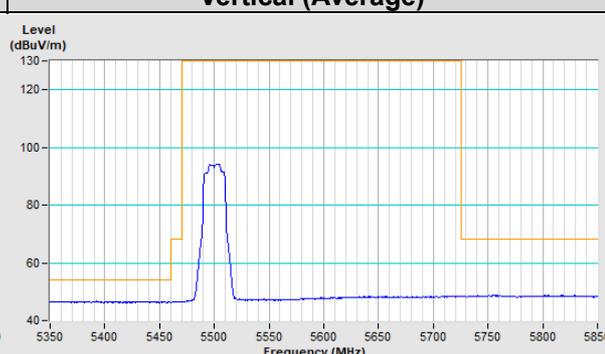
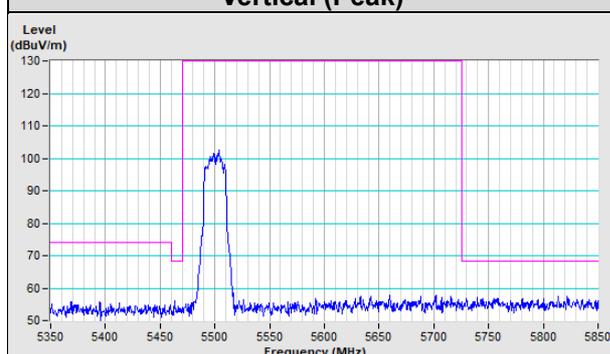
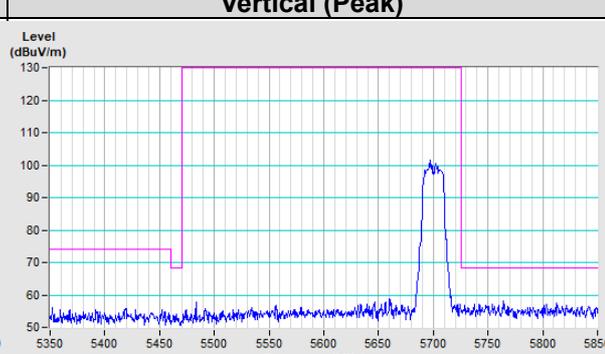
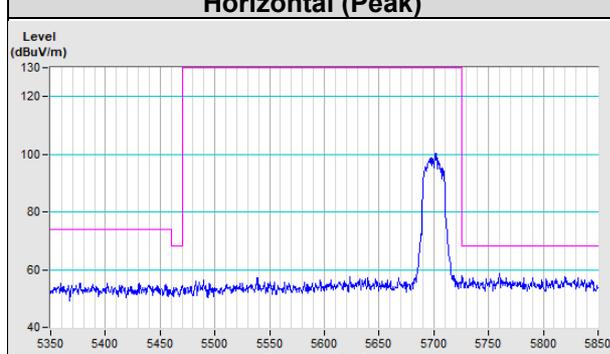
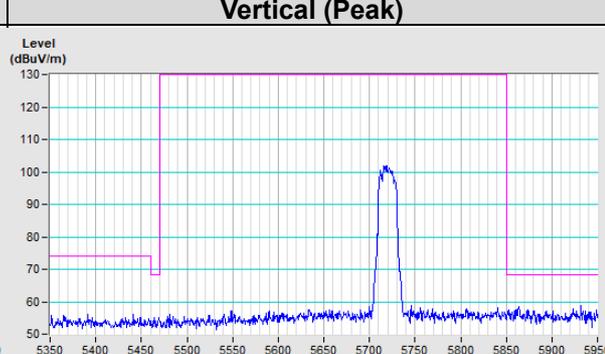
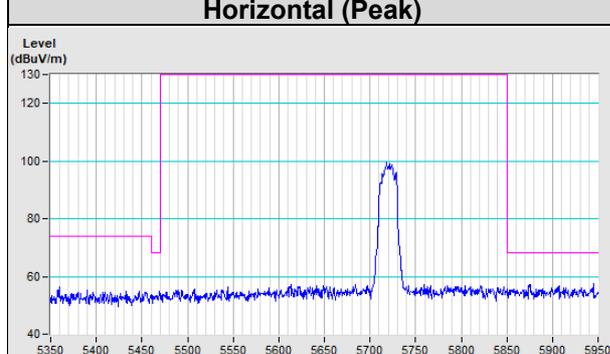
Horizontal (Peak) **Horizontal (Average)**



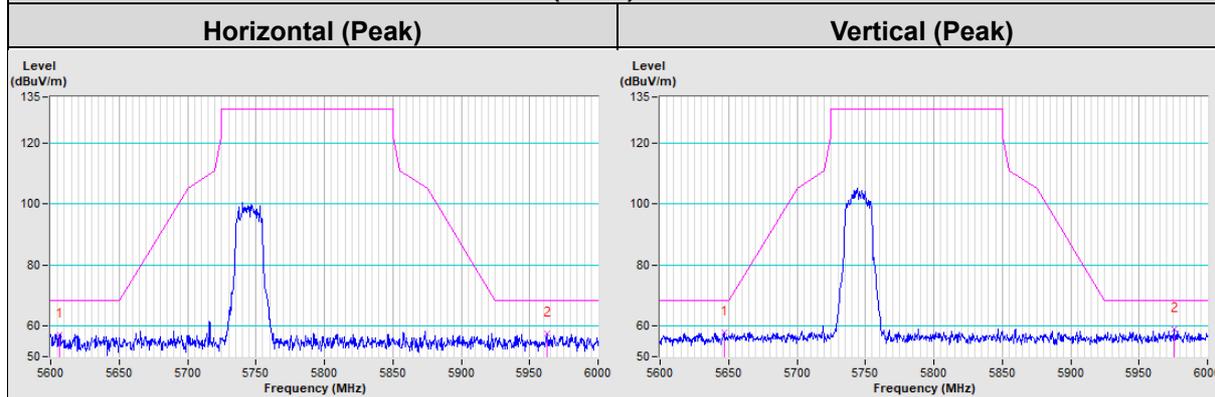
Vertical (Peak)

Vertical (Average)

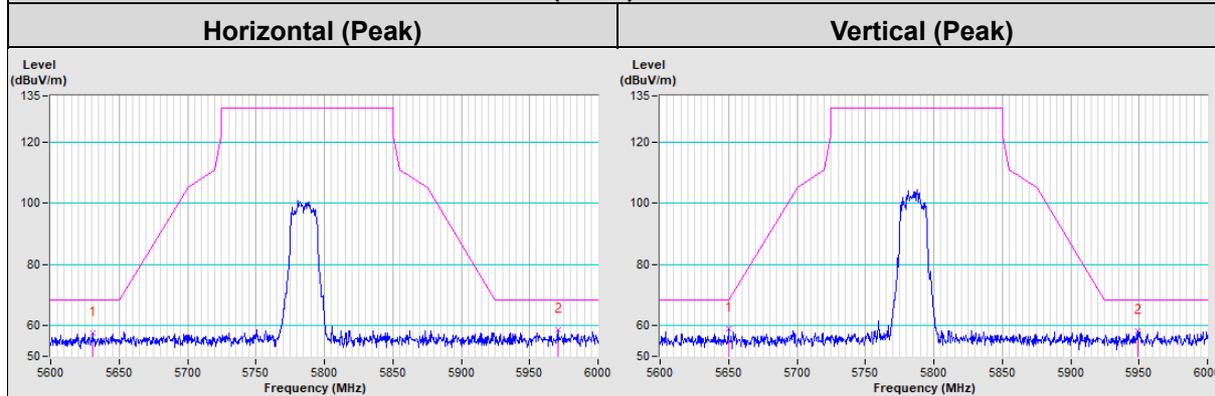


802.11ax (HE20) Channel 100**Horizontal (Peak)** **Horizontal (Average)****Vertical (Peak)****Vertical (Average)****802.11ax (HE20) Channel 140****Horizontal (Peak)****Vertical (Peak)****802.11ax (HE20) Channel 144****Horizontal (Peak)****Vertical (Peak)**

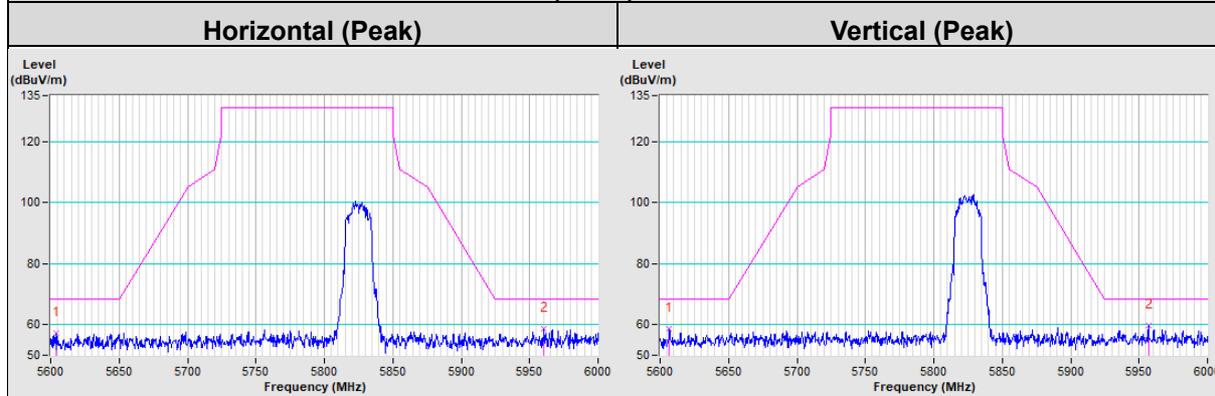
802.11ax (HE20) Channel 149



802.11ax (HE20) Channel 157



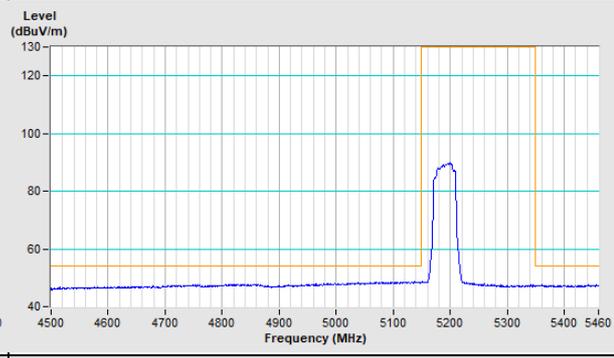
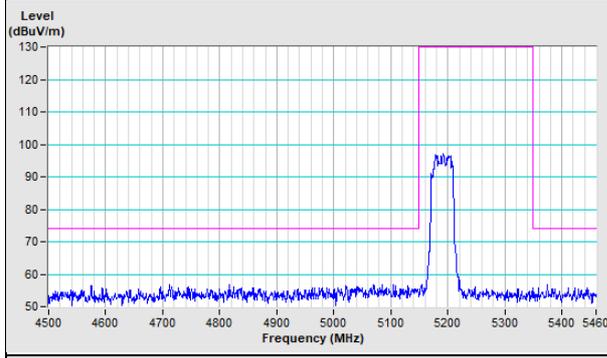
802.11ax (HE20) Channel 165





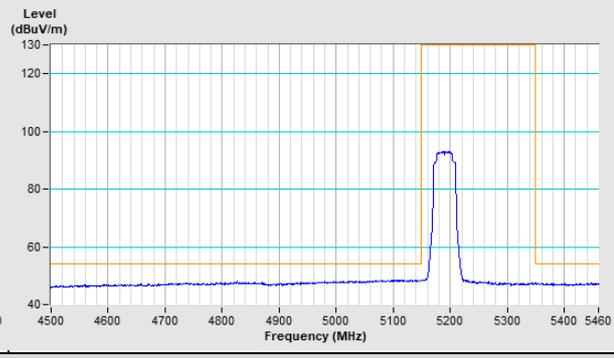
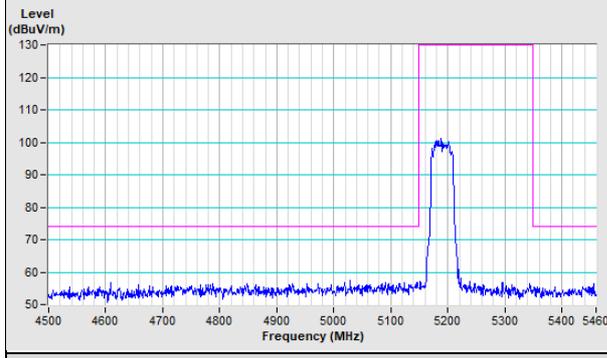
802.11ax (HE40) Channel 38

Horizontal (Peak) **Horizontal (Average)**



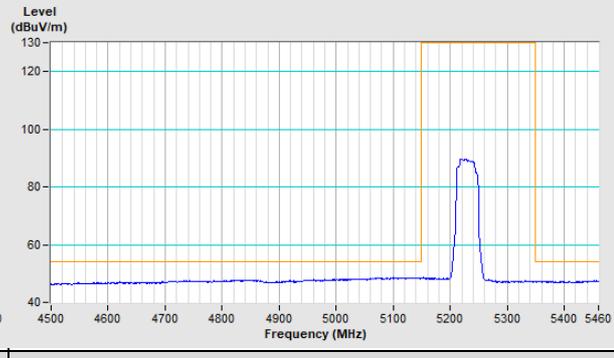
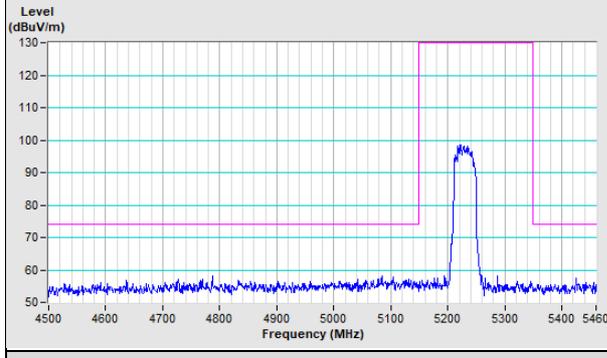
Vertical (Peak)

Vertical (Average)



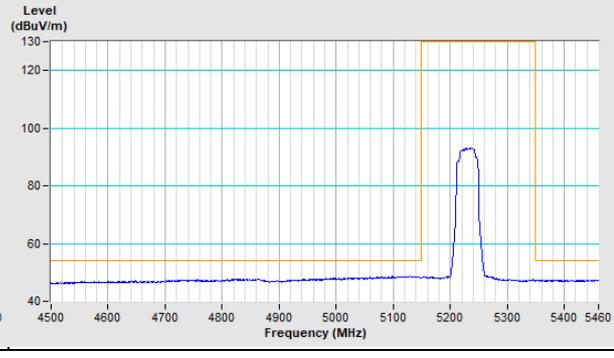
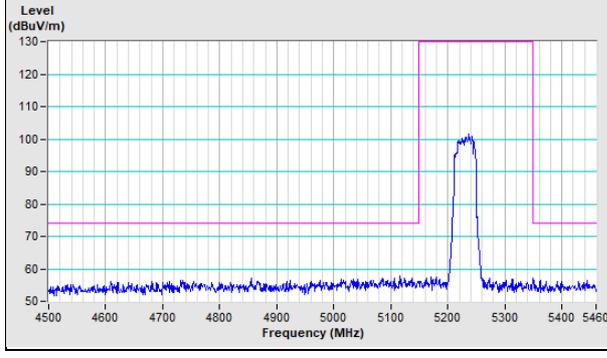
802.11ax (HE40) Channel 46

Horizontal (Peak) **Horizontal (Average)**



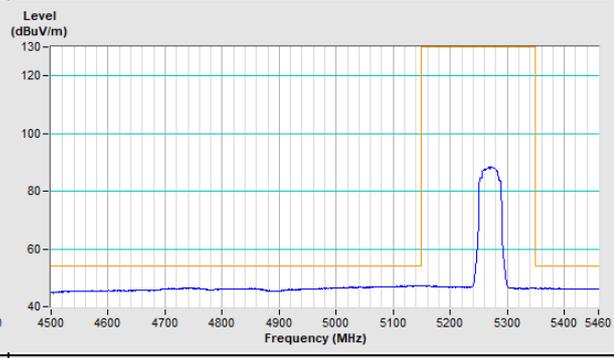
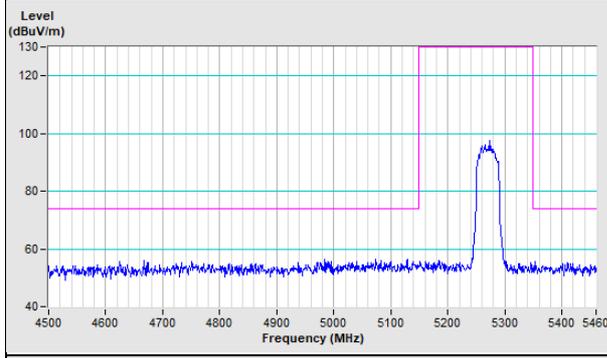
Vertical (Peak)

Vertical (Average)



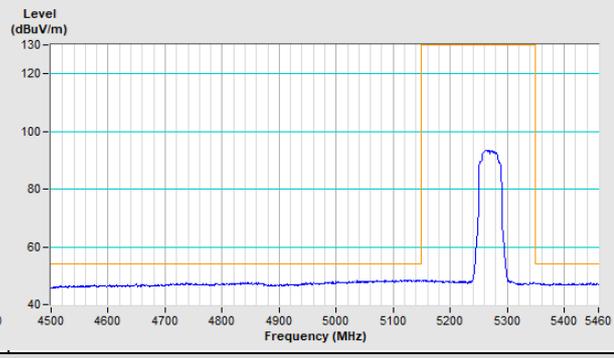
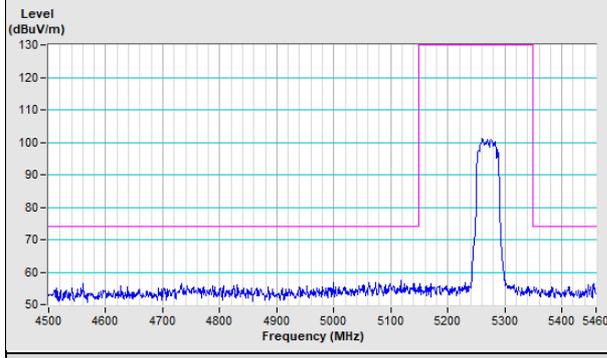
802.11ax (HE40) Channel 54

Horizontal (Peak) **Horizontal (Average)**



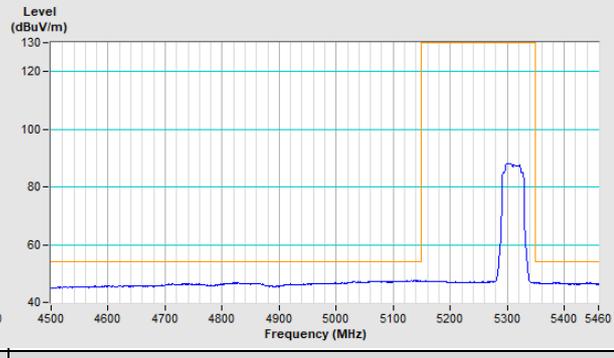
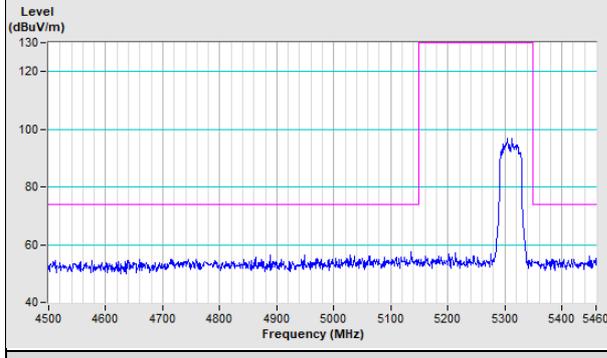
Vertical (Peak)

Vertical (Average)



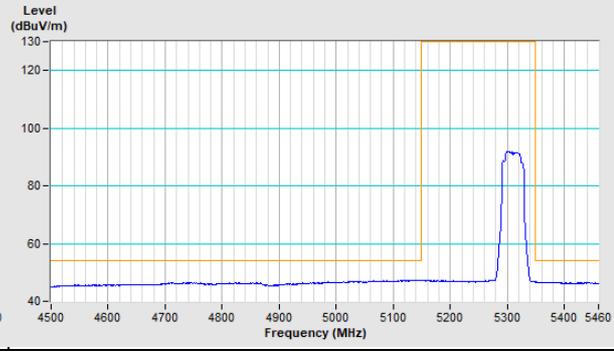
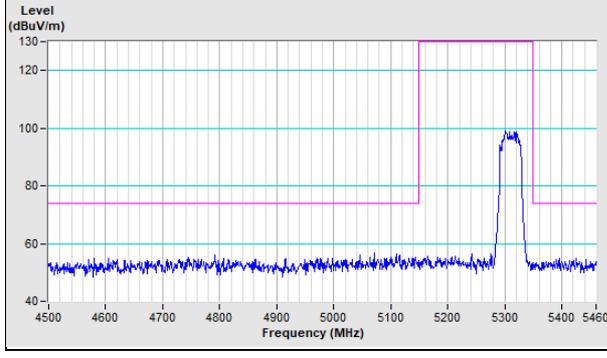
802.11ax (HE40) Channel 62

Horizontal (Peak) **Horizontal (Average)**



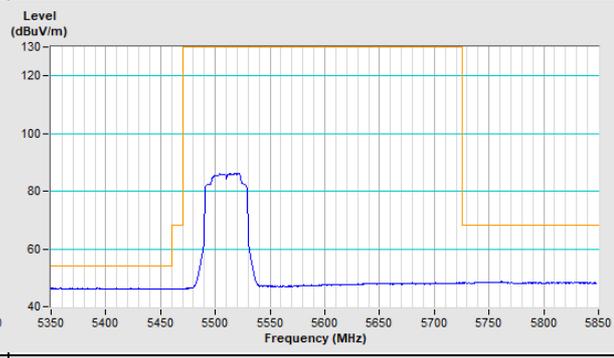
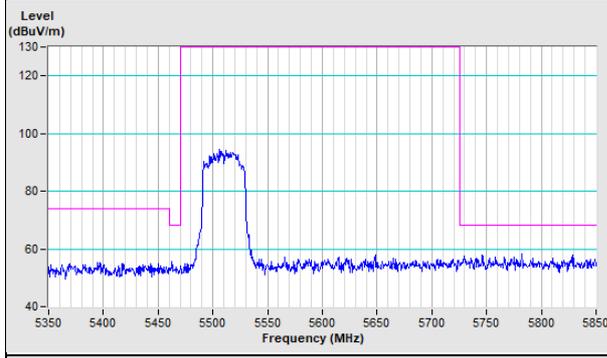
Vertical (Peak)

Vertical (Average)



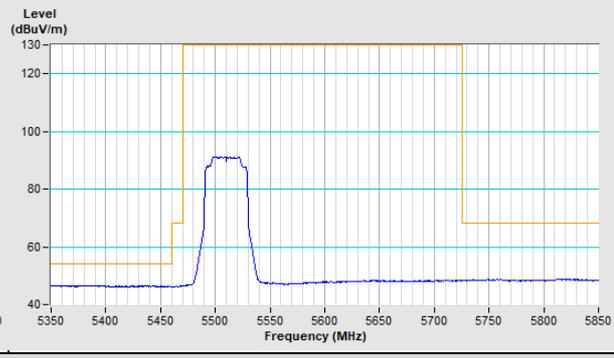
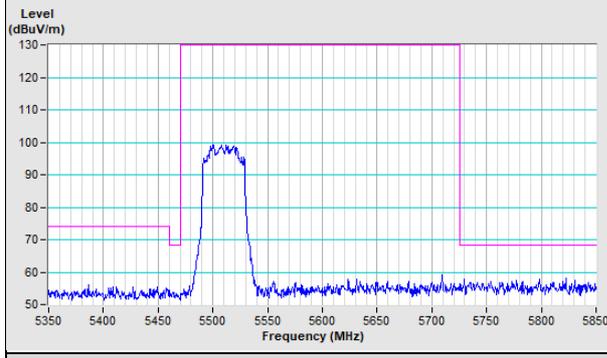
802.11ax (HE40) Channel 102

Horizontal (Peak) **Horizontal (Average)**



Vertical (Peak)

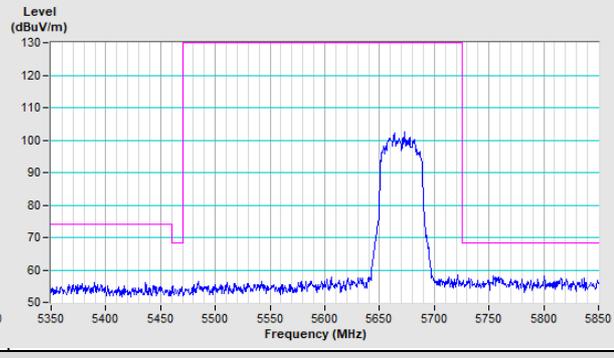
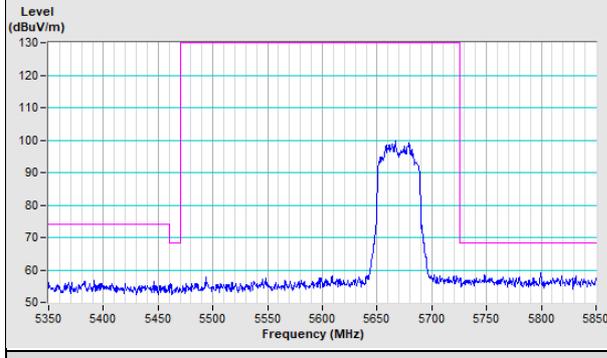
Vertical (Average)



802.11ax (HE40) Channel 134

Horizontal (Peak)

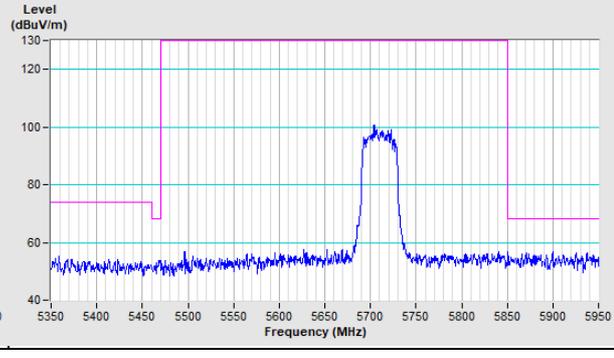
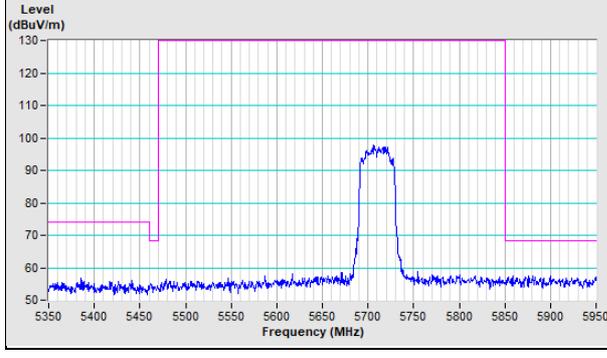
Vertical (Peak)



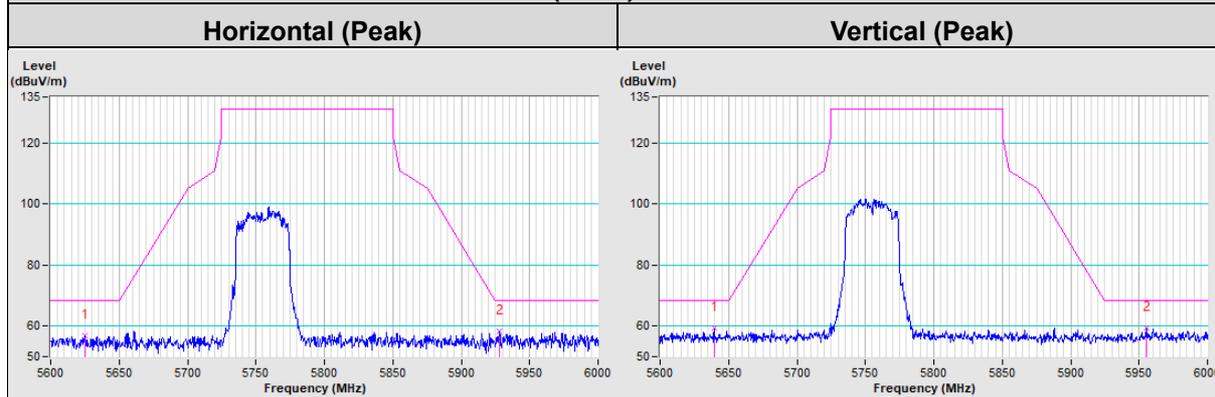
802.11ax (HE40) Channel 142

Horizontal (Peak)

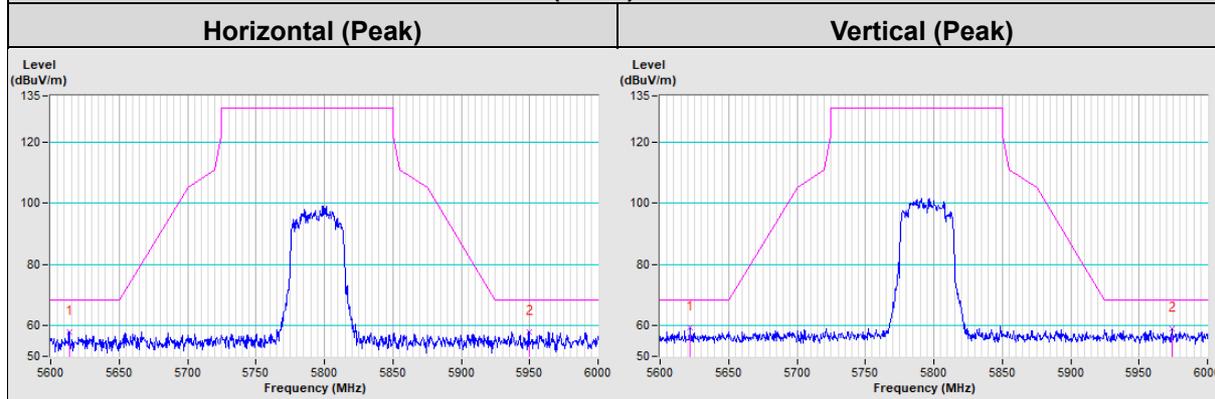
Vertical (Peak)



802.11ax (HE40) Channel 151

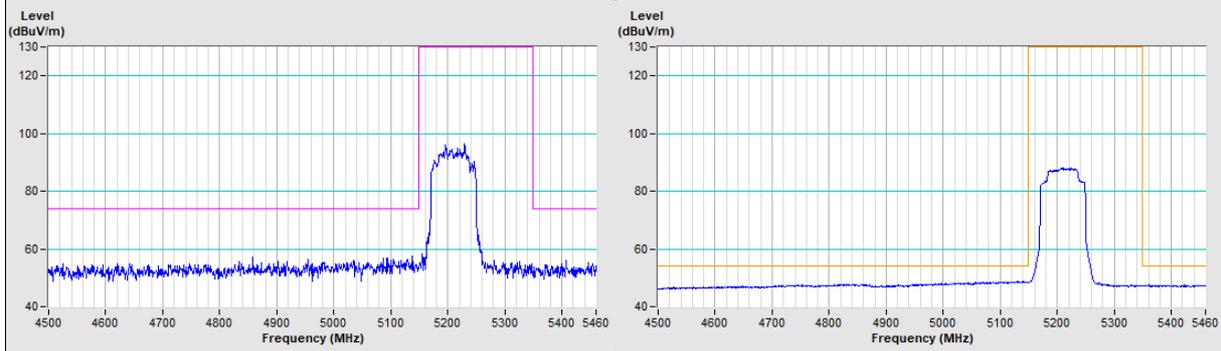


802.11ax (HE40) Channel 159

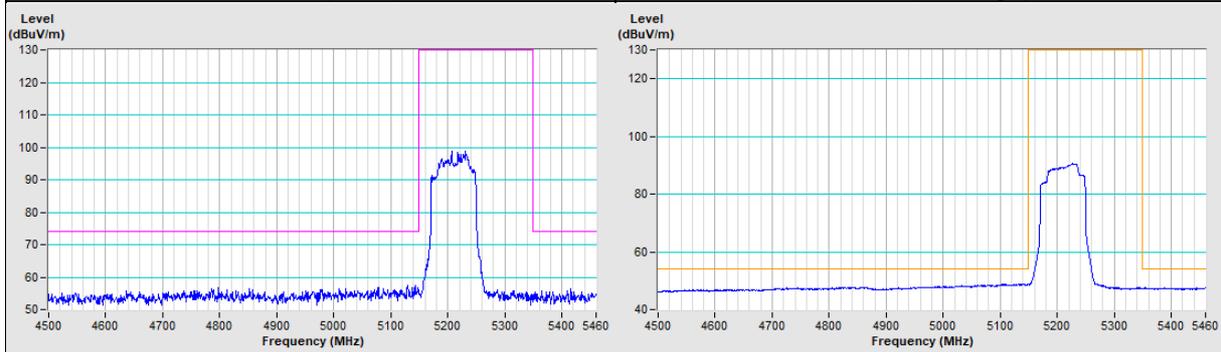


802.11ax (HE80) Channel 42

Horizontal (Peak)	Horizontal (Average)
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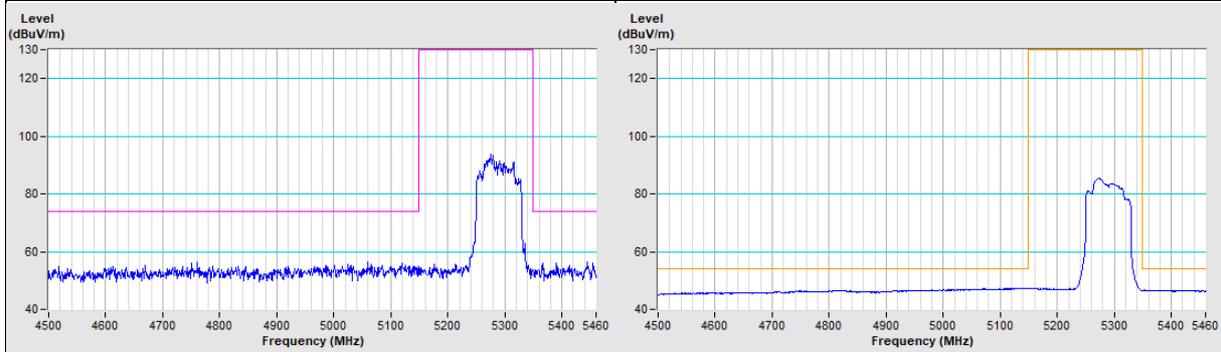


Vertical (Peak)	Vertical (Average)
------------------------	---------------------------

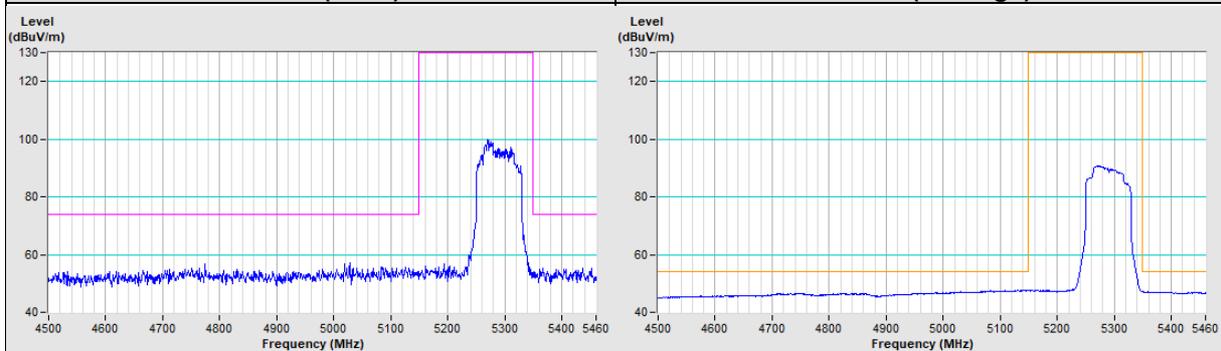


802.11ax (HE80) Channel 58

Horizontal (Peak)	Horizontal (Average)
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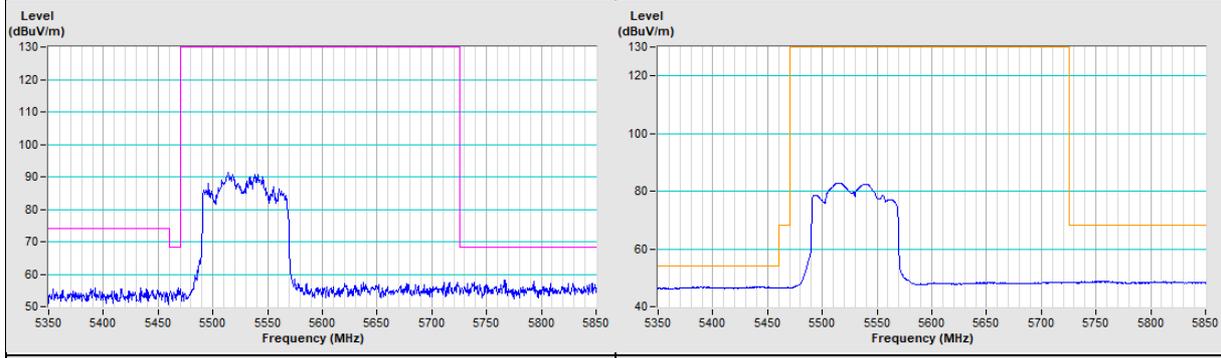


Vertical (Peak)	Vertical (Average)
------------------------	---------------------------

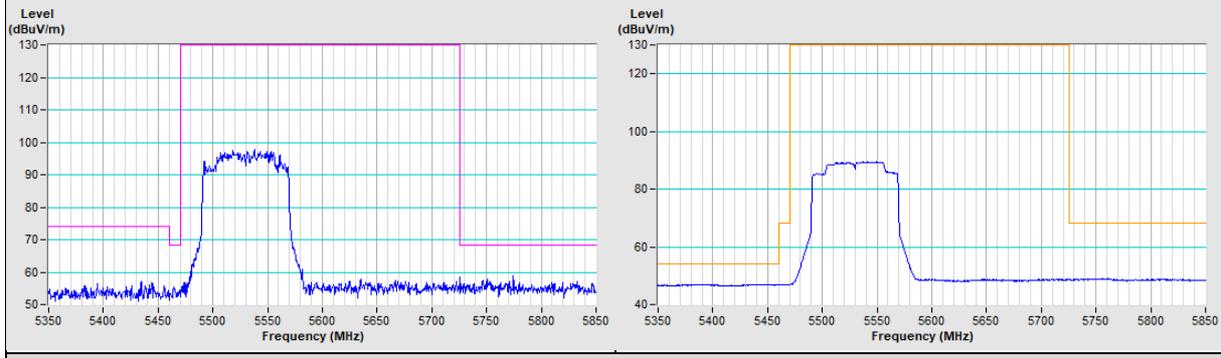


802.11ax (HE80) Channel 106

Horizontal (Peak) **Horizontal (Average)**

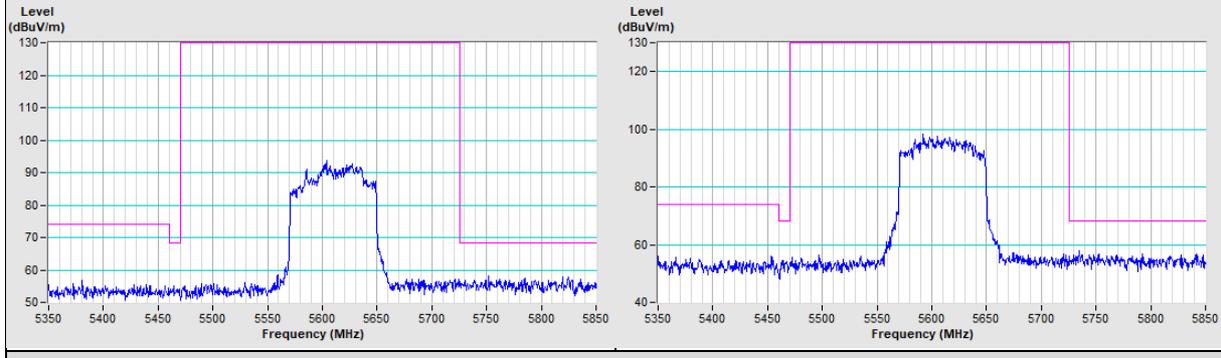


Vertical (Peak) **Vertical (Average)**



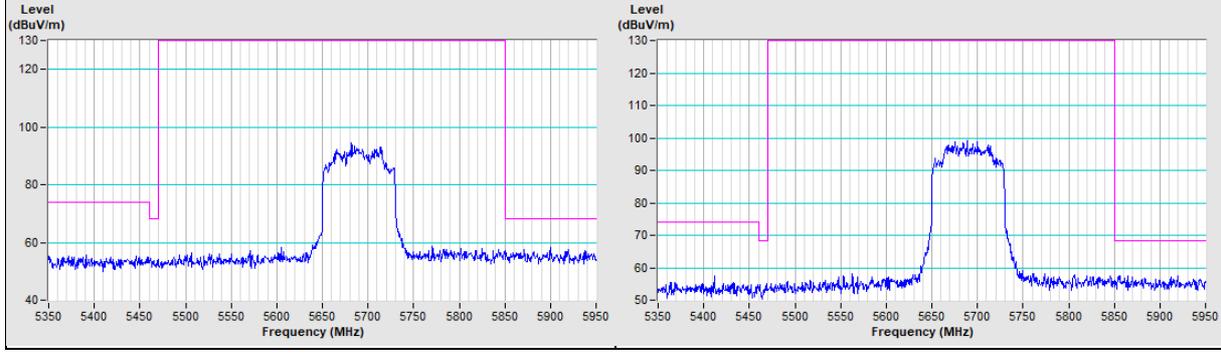
802.11ax (HE80) Channel 122

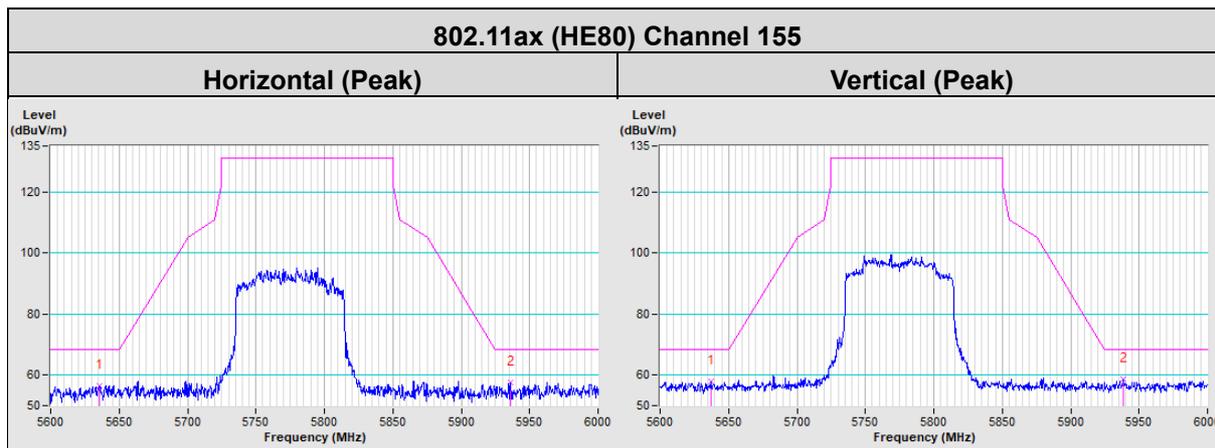
Horizontal (Peak) **Vertical (Peak)**



802.11ax (HE80) Channel 138

Horizontal (Peak) **Vertical (Peak)**

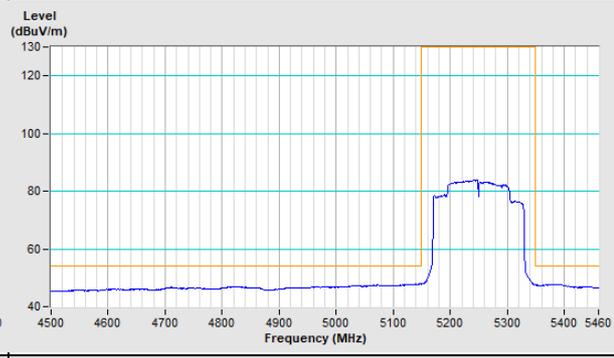
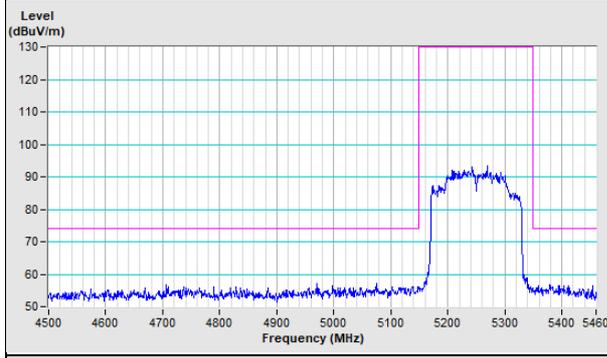






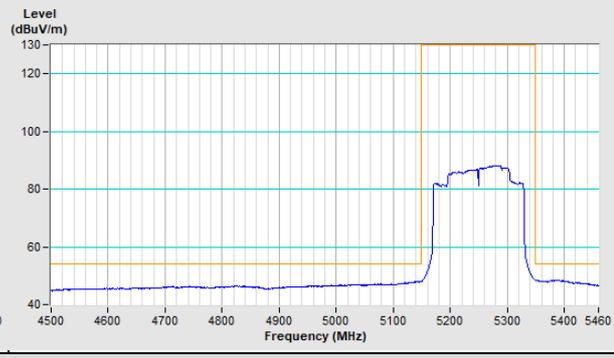
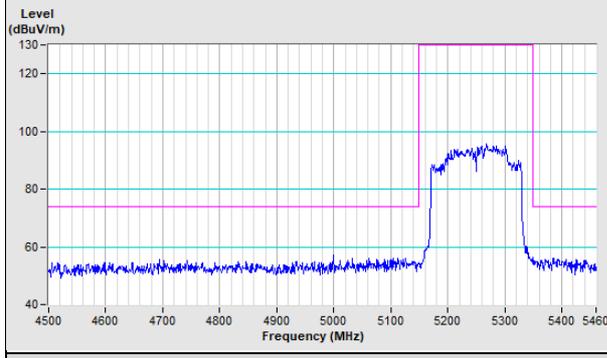
802.11ax (HE160) Channel 50

Horizontal (Peak) **Horizontal (Average)**



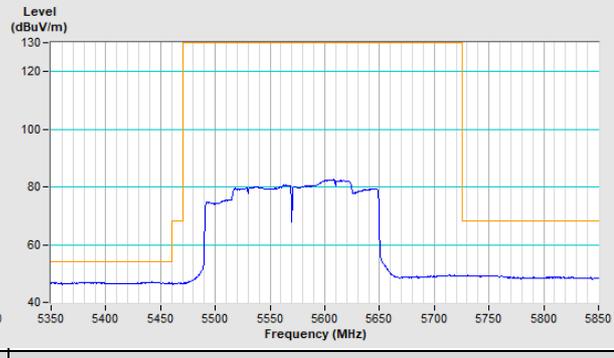
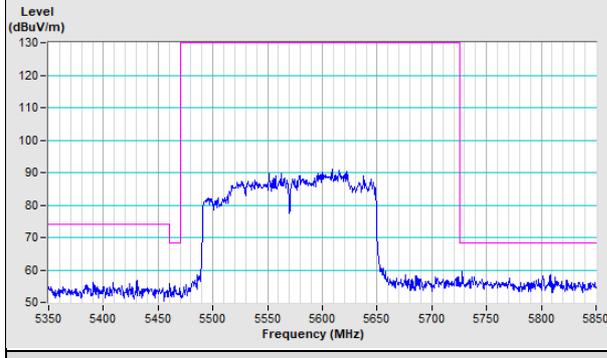
Vertical (Peak)

Vertical (Average)



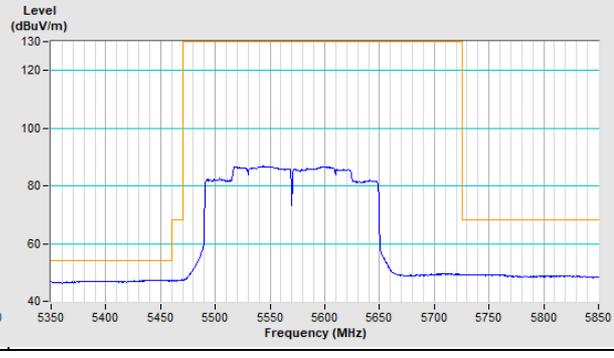
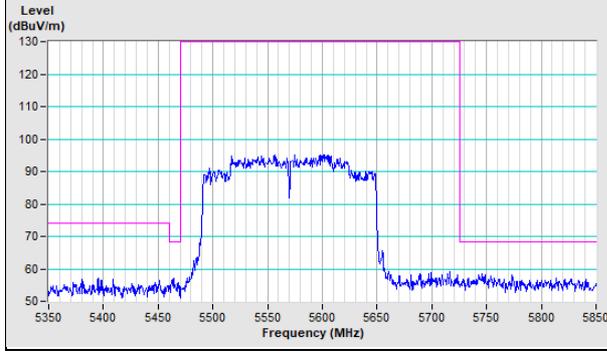
802.11ax (HE160) Channel 114

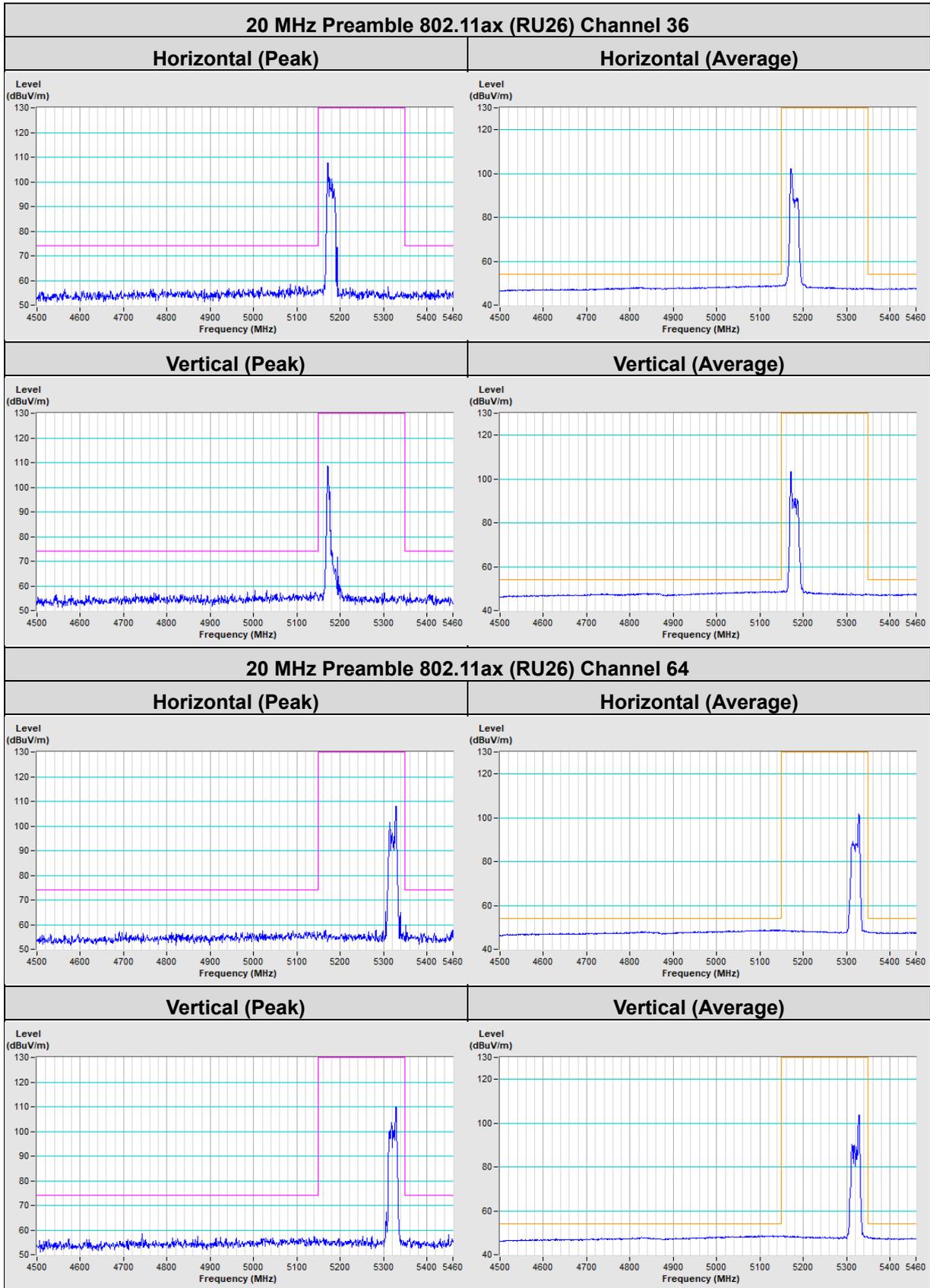
Horizontal (Peak) **Horizontal (Average)**



Vertical (Peak)

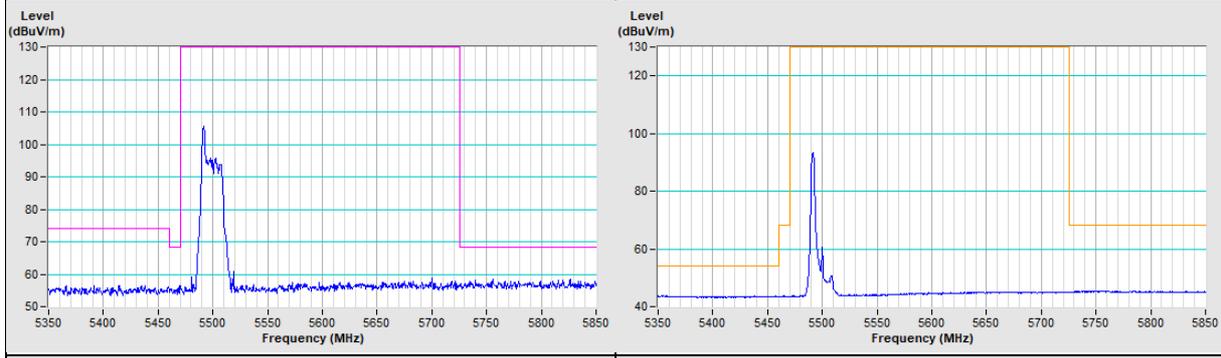
Vertical (Average)



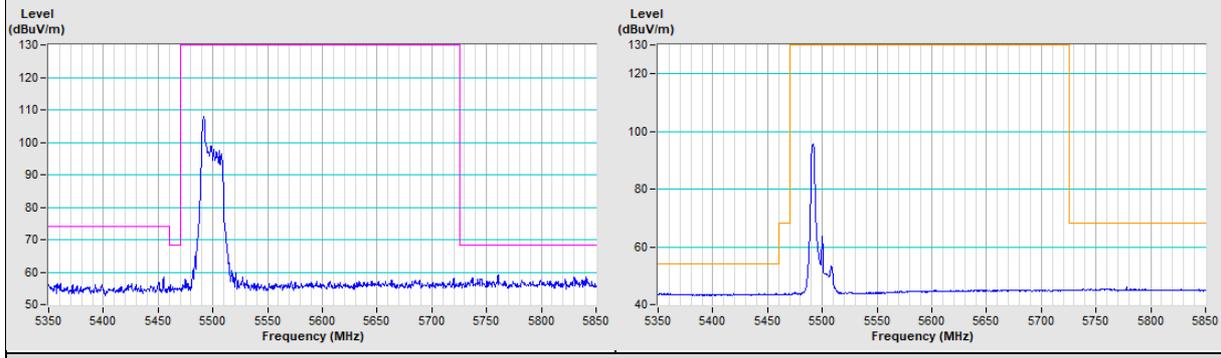


20 MHz Preamble 802.11ax (RU26) Channel 100

Horizontal (Peak) **Horizontal (Average)**

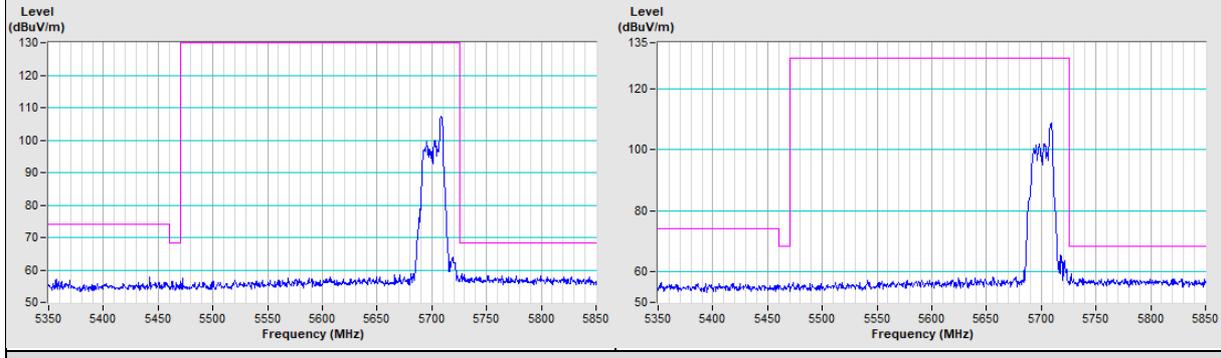


Vertical (Peak) **Vertical (Average)**



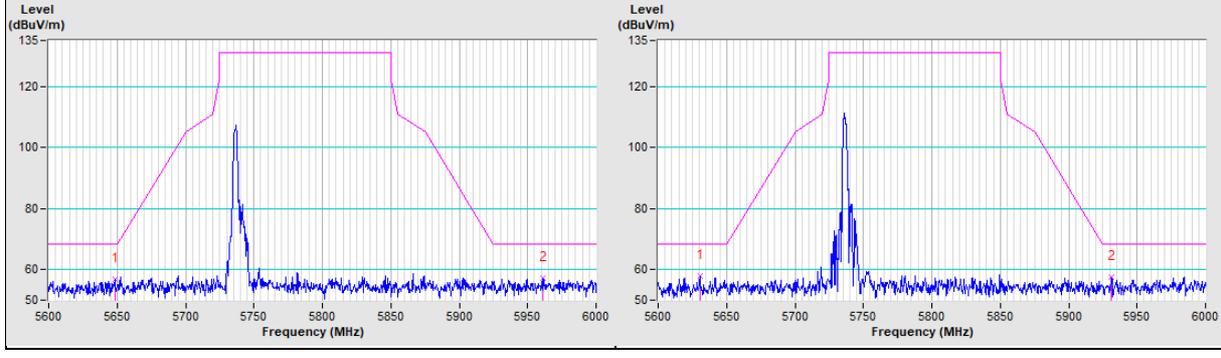
20 MHz Preamble 802.11ax (RU26) Channel 140

Horizontal (Peak) **Vertical (Peak)**



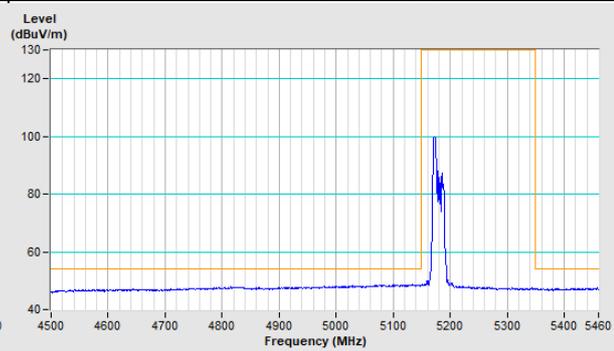
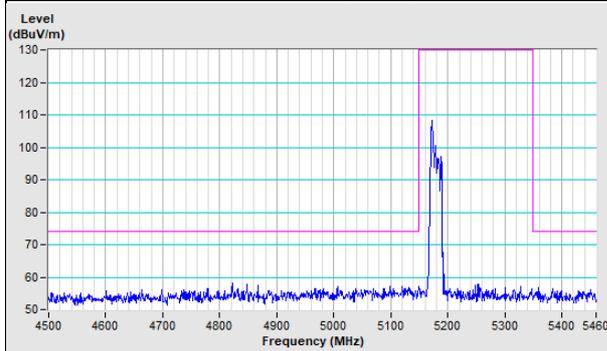
20 MHz Preamble 802.11ax (RU26) Channel 149

Horizontal (Peak) **Vertical (Peak)**



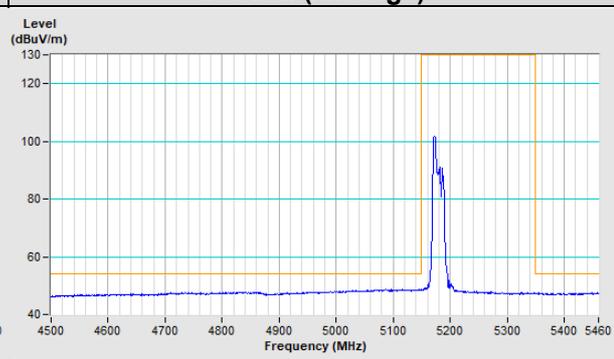
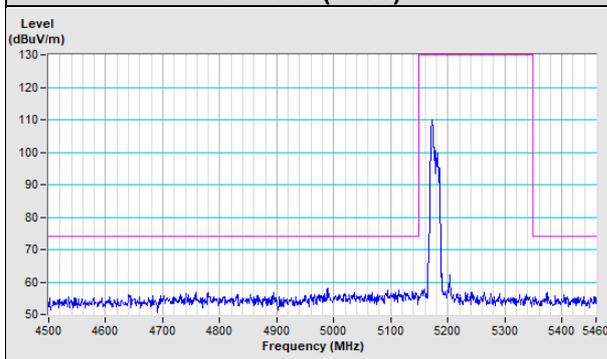
20 MHz Preamble 802.11ax (RU52) Channel 36

Horizontal (Peak) **Horizontal (Average)**



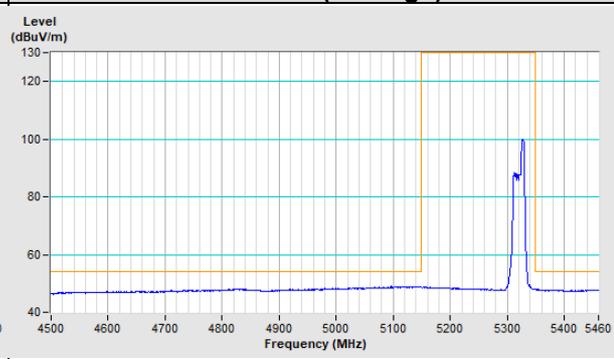
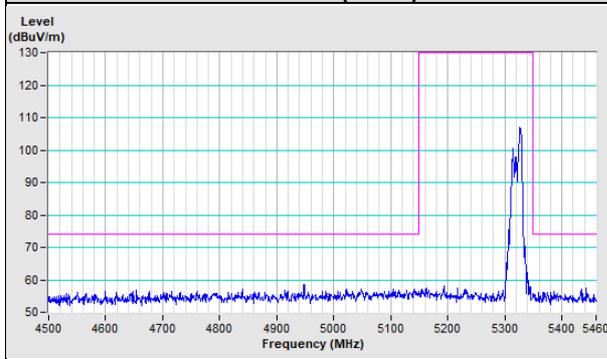
Vertical (Peak)

Vertical (Average)



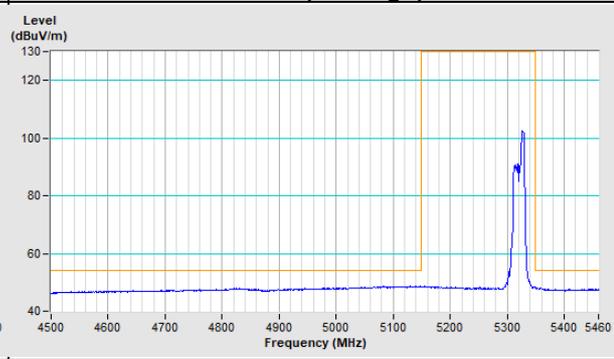
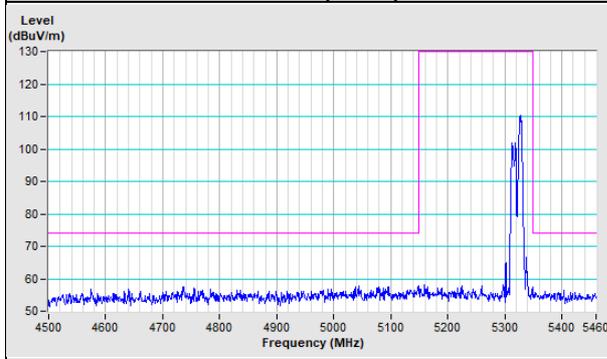
20 MHz Preamble 802.11ax (RU52) Channel 64

Horizontal (Peak) **Horizontal (Average)**



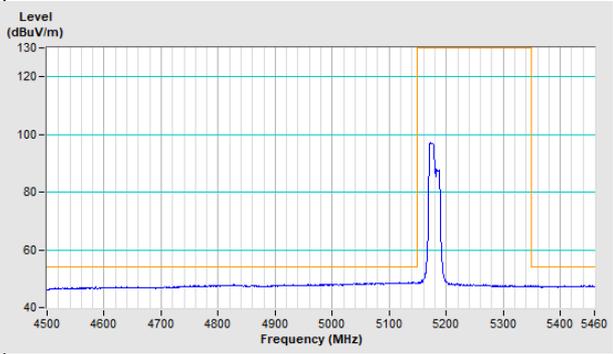
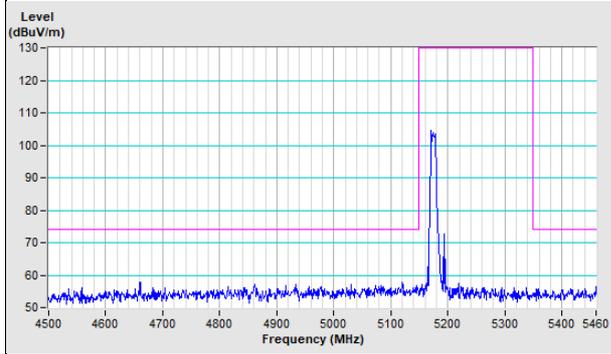
Vertical (Peak)

Vertical (Average)



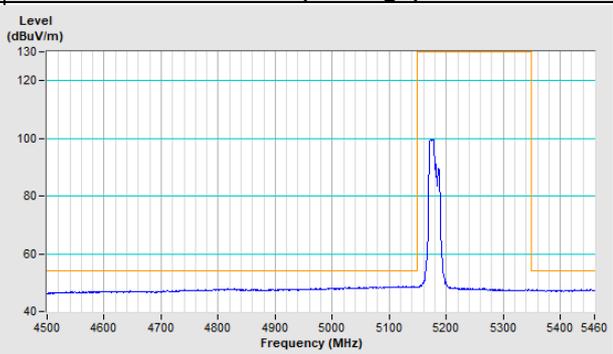
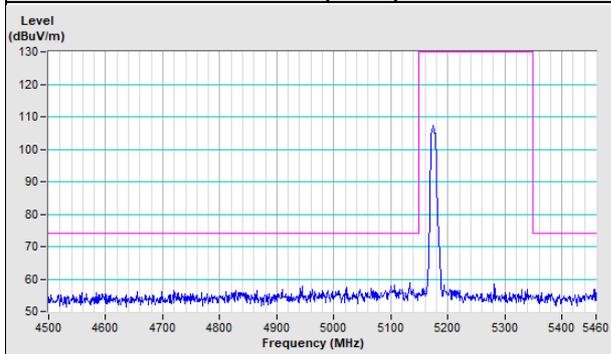
20 MHz Preamble 802.11ax (RU106) Channel 36

Horizontal (Peak) **Horizontal (Average)**



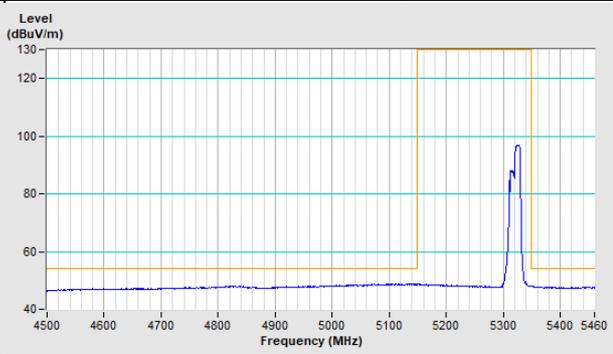
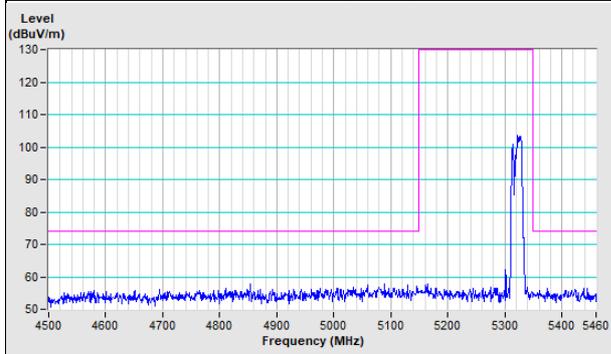
Vertical (Peak)

Vertical (Average)



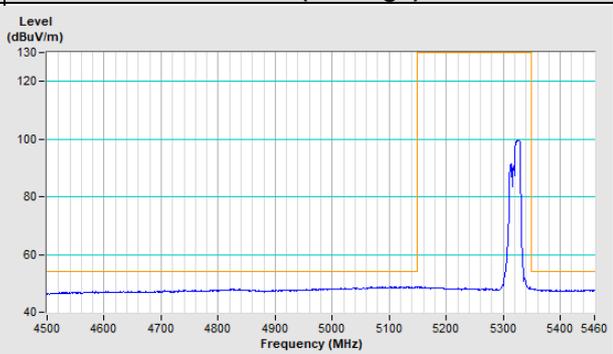
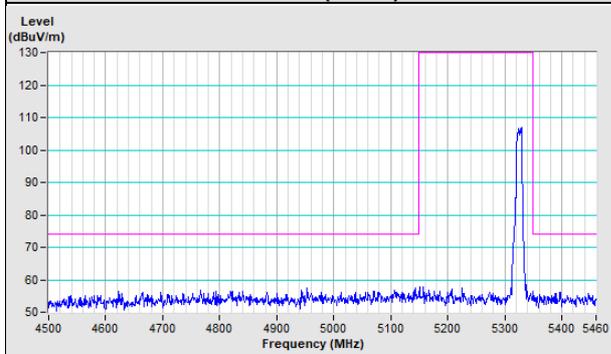
20 MHz Preamble 802.11ax (RU106) Channel 64

Horizontal (Peak) **Horizontal (Average)**



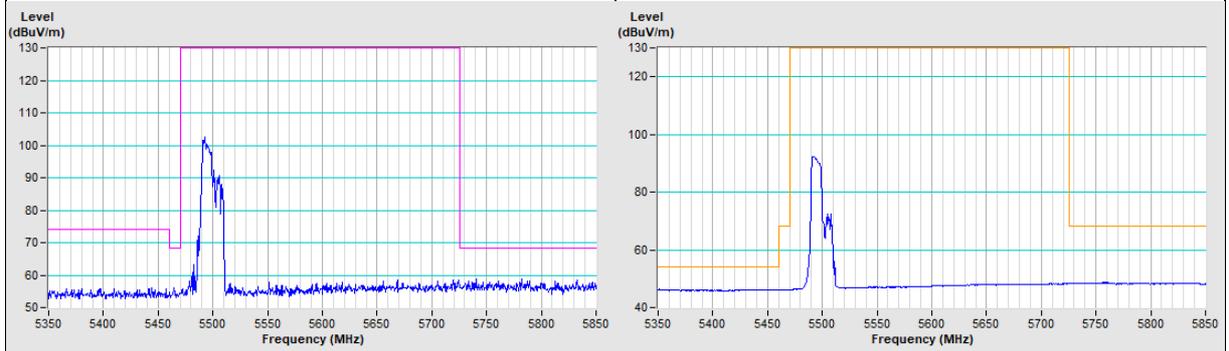
Vertical (Peak)

Vertical (Average)

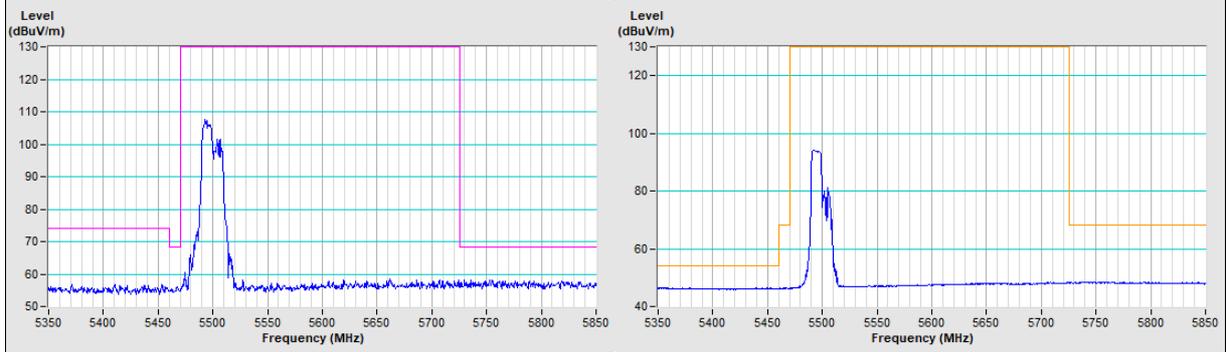


20 MHz Preamble 802.11ax (RU106) Channel 100

Horizontal (Peak) **Horizontal (Average)**

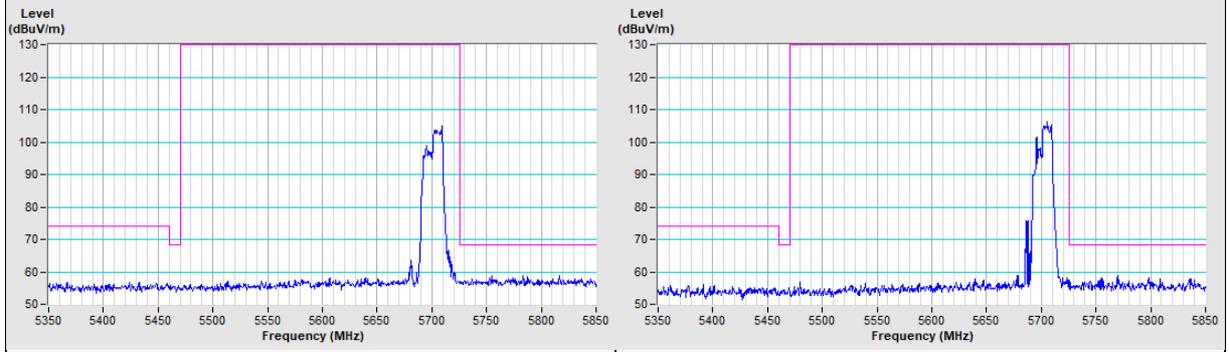


Vertical (Peak) **Vertical (Average)**



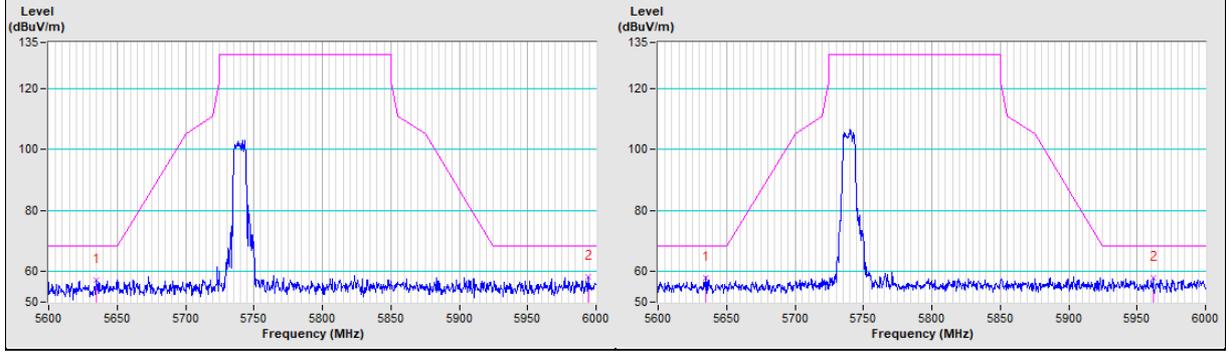
20 MHz Preamble 802.11ax (RU106) Channel 140

Horizontal (Peak) **Vertical (Peak)**



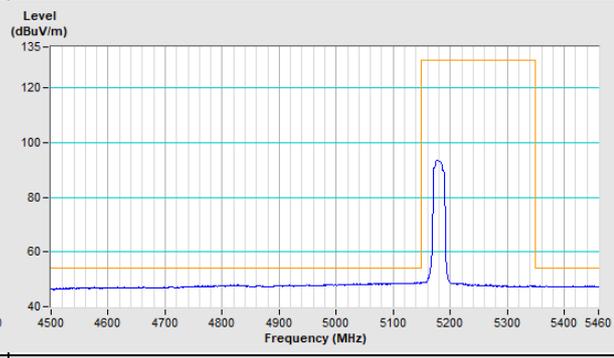
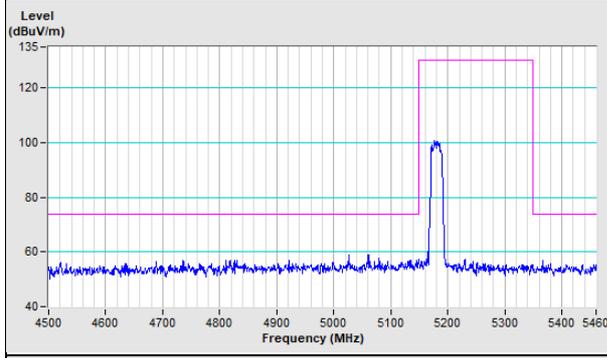
20 MHz Preamble 802.11ax (RU106) Channel 149

Horizontal (Peak) **Vertical (Peak)**



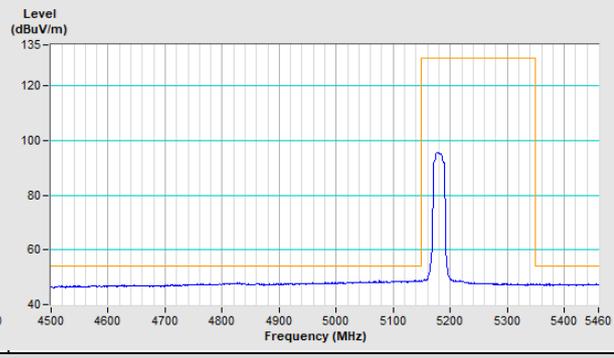
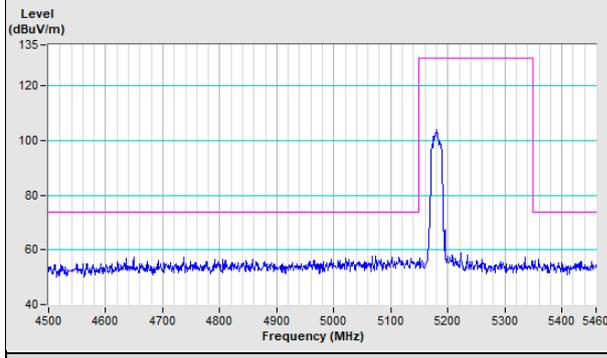
40 MHz Preamble 802.11ax (RU26) Channel 38

Horizontal (Peak) **Horizontal (Average)**



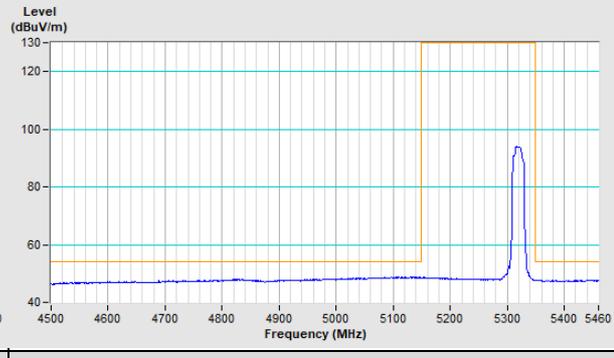
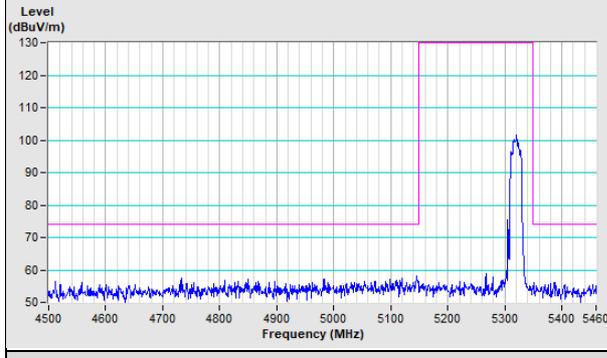
Vertical (Peak)

Vertical (Average)



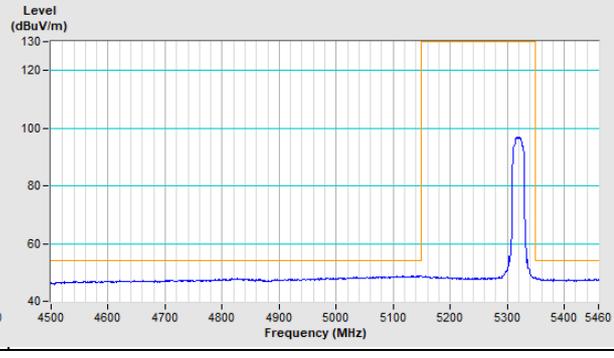
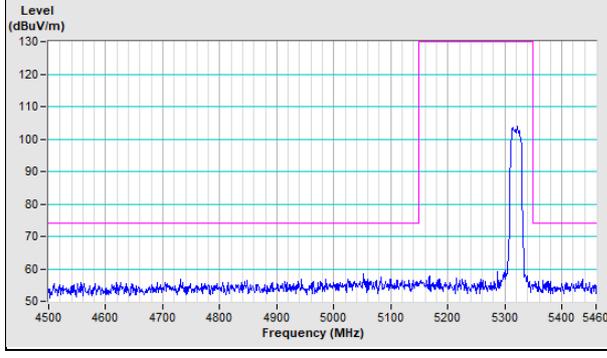
40 MHz Preamble 802.11ax (RU26) Channel 62

Horizontal (Peak) **Horizontal (Average)**



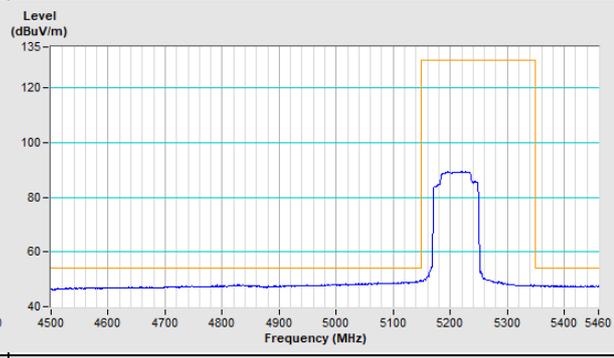
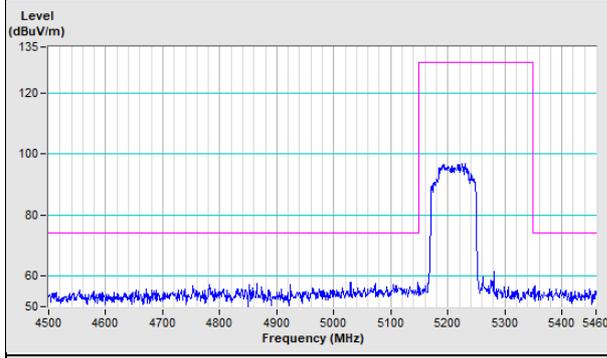
Vertical (Peak)

Vertical (Average)



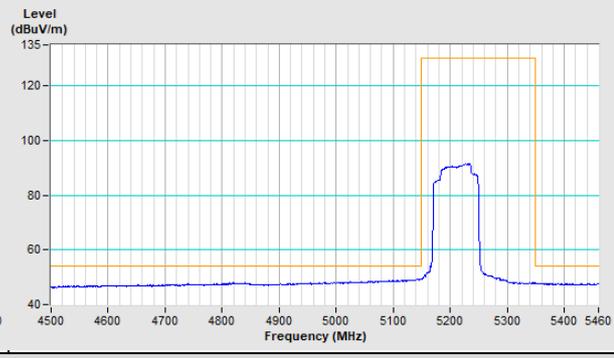
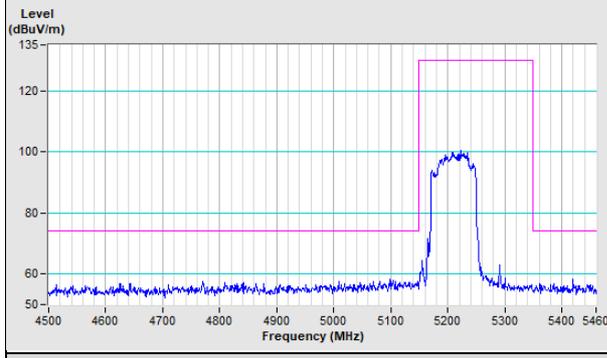
160 MHz Preamble 802.11ax (RU996) Channel 50

Horizontal (Peak) **Horizontal (Average)**



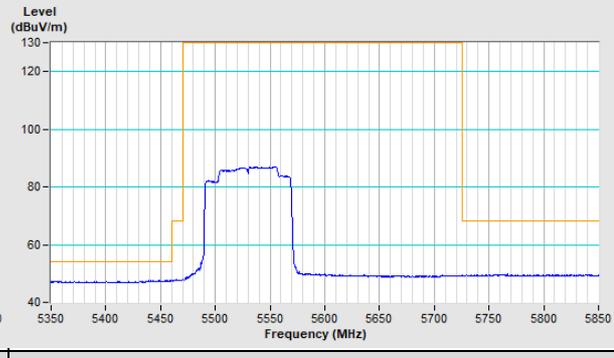
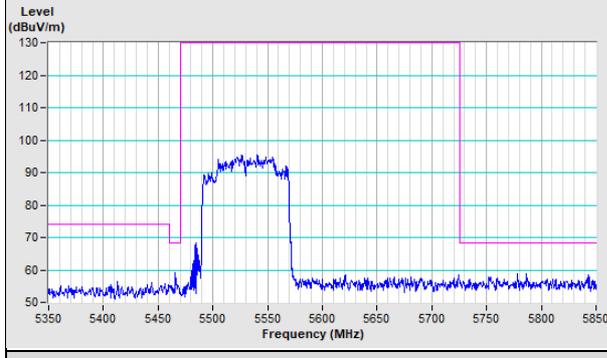
Vertical (Peak)

Vertical (Average)



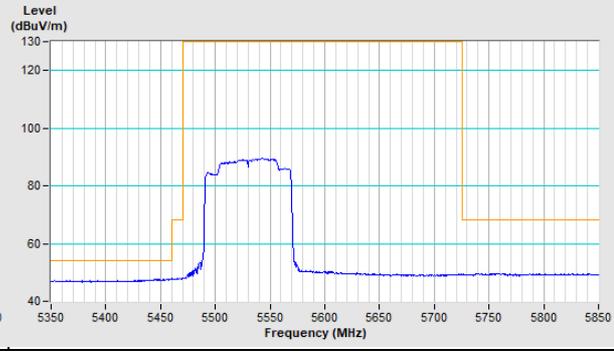
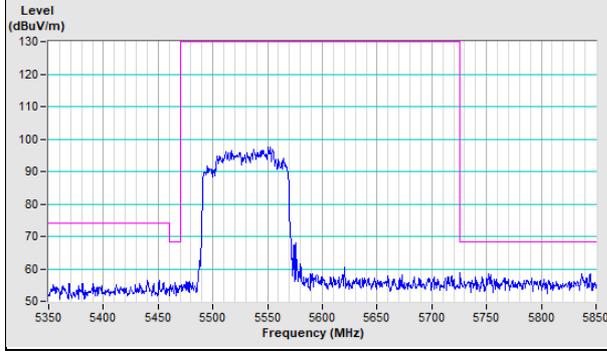
160 MHz Preamble 802.11ax (RU996) Channel 114

Horizontal (Peak) **Horizontal (Average)**



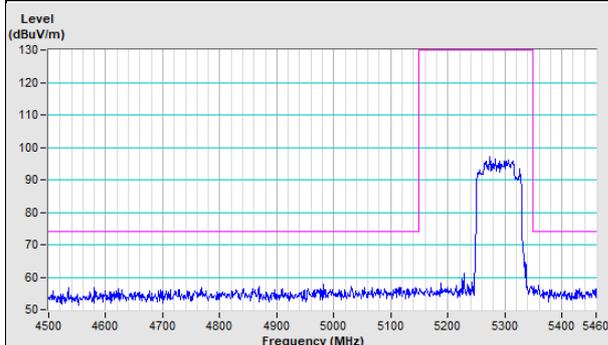
Vertical (Peak)

Vertical (Average)

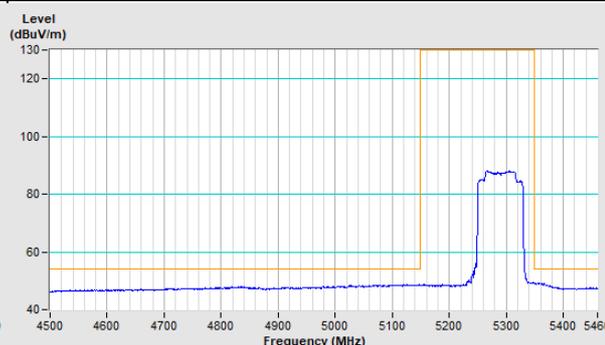


160 MHz Preamble 802.11ax (RU996/S67) Channel 50

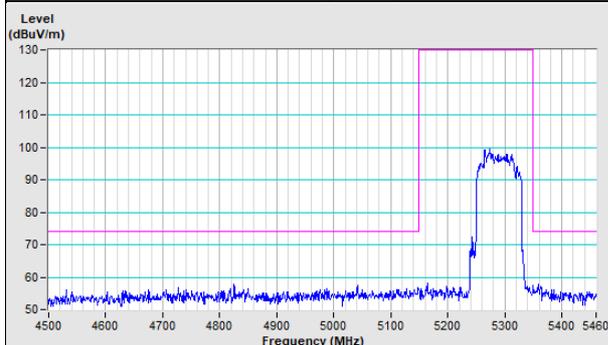
Horizontal (Peak)



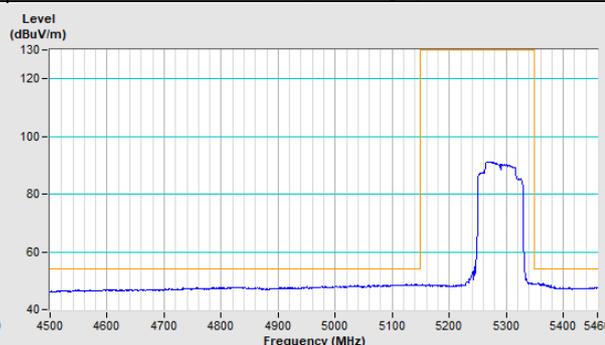
Horizontal (Average)



Vertical (Peak)

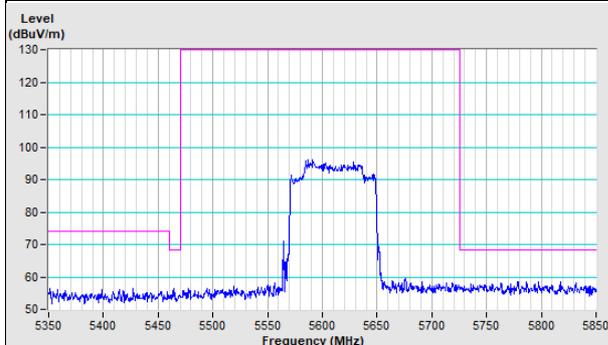


Vertical (Average)

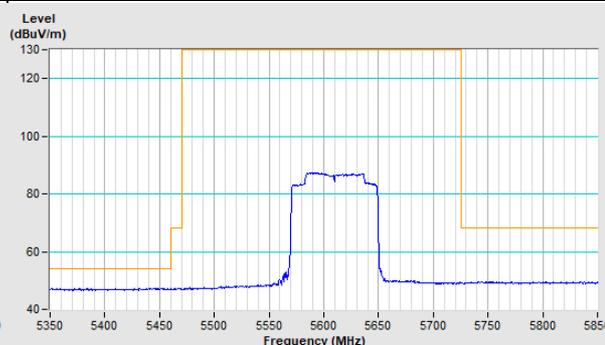


160 MHz Preamble 802.11ax (RU996/S67) Channel 114

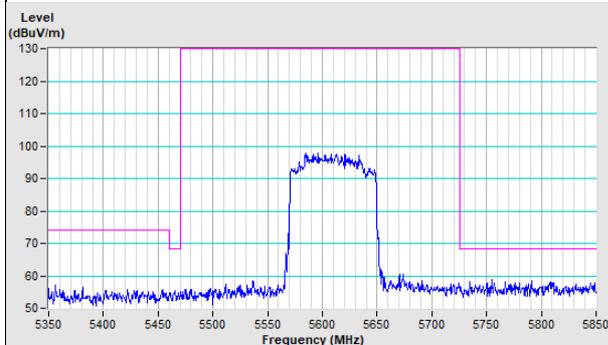
Horizontal (Peak)



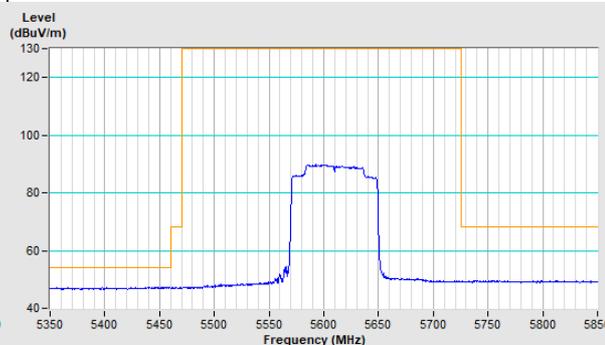
Horizontal (Average)



Vertical (Peak)



Vertical (Average)



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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Email: service.adt@bureauveritas.com

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

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

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