

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBBQZ-WTW-P22060973-1

FCC ID: PY322200568

Product: AX3000 4-Stream WiFi6 Router, AX1800 WiFi Router

Brand: NETGEAR

Model No.: RAX36S

Series Model: RAX10v2, R6700AXv2

Received Date: 2022/8/16

Test Date: 2022/8/22 ~ 2022/10/5

Issued Date: 2022/10/26

Applicant and Manufacturer: NETGEAR, INC

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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:

Approved by:

Jeremy Lin

Date:

2022/10/26

Jeremy Lin / Project Engineer

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Prepared by : Celine Chou / Senior Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBBQZ-WTW-P22060973-1	Original release.	2022/10/26

1 Certificate

Product: AX3000 4-Stream WiFi6 Router, AX1800 WiFi Router

Brand: NETGEAR

Test Model: RAX36S

Series Model: RAX10v2, R6700AXv2

Sample Status: Engineering sample

Applicant and Manufacturer: NETGEAR, INC

Test Date: 2022/8/22 ~ 2022/10/5

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 -12.90 dB at 0.46446 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -5.5 dB at 175.50 MHz
15.407(b)(1/2/3/4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 5350.00, 5725.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

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

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.99 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.59 dB
	30 MHz ~ 1 GHz	3.64 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	2.29 dB
	18 GHz ~ 40 GHz	2.29 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	AX3000 4-Stream WiFi6 Router, AX1800 WiFi Router
Brand	NETGEAR
Test Model	RAX36S
Series Model	RAX10v2, R6700AXv2
Status of EUT	Engineering sample
Power Supply Rating	12 Vdc from 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: 54/48/36/24/18/12/9/6 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 1733.3 Mbps 802.11ax: up to 2402 Mbps
Operating Frequency	5180 ~ 5320 MHz, 5500 ~ 5720 MHz, 5745 ~ 5825 MHz
Number of Channel	5180 ~ 5320 MHz: 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 ~ 5720 MHz: 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 ~ 5825 MHz: 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	CDD Mode: 5180 ~ 5250 MHz: 633.891 mW (28.02 dBm) 5250 ~ 5320 MHz: 212.956 mW (23.28 dBm) 5500 ~ 5720 MHz: 213.847 mW (23.30 dBm) 5745 ~ 5825 MHz: 849.259 mW (29.29 dBm) Beamforming Mode: 5180 ~ 5250 MHz: 563.892 mW (27.51 dBm) 5250 ~ 5320 MHz: 212.956 mW (23.28 dBm) 5500 ~ 5720 MHz: 213.847 mW (23.30 dBm) 5745 ~ 5825 MHz: 849.259 mW (29.29 dBm)
EUT Category	Indoor Access Point

Note:

1. All models are listed as below.

Brand	Product	Model	Difference
NETGEAR	AX3000 4-Stream WiFi6 Router	RAX36S	The radio is (2x2 2.4GHz) + (2x2 5GHz Band 1 and Band 2A and Band 2C and Band 3 up to HE160).
	AX1800 WiFi Router	RAX10v2	The radio is (2x2 2.4GHz) + (2x2 5GHz Band 1 and Band 3 up to HE80).
	AX1800 WiFi Router	R6700AXv2	

2. The EUT uses following accessories.

AC Adapter 1			
Brand	Model	Part Number	Specification
NETGEAR	ADS-18FQ-12 12018EPCU-L, ADS-18FQ-12 12018EPC-L	332-11523-02	AC Input : 100-120 Vac, 60 Hz, 0.7 A DC Output : 12 Vdc, 1.5 A DC Output Cable : 1.8M / 0 core Manufacturer: HONGKONG HONOR HIGH TECH CO., LIMITED
AC Adapter 2			
Brand	Model	Part Number	Specification
NETGER	2AAJ018F 1	332-11572-01	AC Input : 100-120Vac, 50/60 Hz, 0.6 A DC Output : 12 Vdc, 1.5 A, 18W DC Output Cable : 1.83M / 0 core Manufacturer : Channel Well Technology Co., Ltd.
LAN Cable			
Brand	Model	Part Number	Specification
-	-	-	1.93m non-shielding LAN cable without core

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Type	Connector	Frequency Range	Ant 0 (dBi)	Ant 1 (dBi)
Dipole	ipex(MHF)	2400~2483.5MHz	2.37	2.46
Dipole	ipex(MHF)	5150~5250MHz	2.85	2.52
		5250~5350MHz	2.85	2.77
		5470~5725MHz	2.83	2.87
		5725~5850MHz	3.38	2.67

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

2. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	Tx & Rx Configuration	
802.11a	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ac (VHT160)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
802.11ax (HE160)	2TX	2RX

Note:

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

3.3 Channel List

For 5180 ~ 5320 MHz

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

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

4 channels are provided for 802.11n (HT40), 802.11ac (VHT40) and 802.11ax (HE40):

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

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

Channel	Frequency	Channel	Frequency
42	5210MHz	58	5290MHz

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

Channel	Frequency
50	5250MHz

For 5500 ~ 5720 MHz

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

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

6 channels are provided for 802.11n (HT40), 802.11ac (VHT40) and 802.11ax (HE40):

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

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

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

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

Channel	Frequency
114	5570MHz

For 5745 ~ 5825 MHz:

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

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

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40) and 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

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

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition.
Worst Case:	1. X-axis/ Y-axis/ Z-axis Worst Condition: X-axis 2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

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

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Occupied Bandwidth	A	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
Frequency Stability	A	802.11a	CDD	36	un-modulation	-
AC Power Conducted Emissions	A, B	802.11ax (HE20)	CDD	157	BPSK	MCS0
Unwanted Emissions below 1 GHz	A, B	802.11ax (HE20)	CDD	157	BPSK	MCS0
Unwanted Emissions above 1 GHz	A	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
		802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
		802.11ax (HE160)	CDD	50, 114	BPSK	MCS0
EUT Configure Mode:	A	Powered by adapter 1				
	B	Powered by adapter 2				

3.5 Duty Cycle of Test Signal

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

802.11a: Duty cycle = $5.075 \text{ ms} / 5.15 \text{ ms} \times 100\% = 98.5\%$

802.11ax (HE20): Duty cycle = $3.015 \text{ ms} / 3.072 \text{ ms} \times 100\% = 98.1\%$

802.11ax (HE40): Duty cycle = $2.988 \text{ ms} / 3.046 \text{ ms} \times 100\% = 98.1\%$

802.11ax (HE80): Duty cycle = $2.987 \text{ ms} / 3.037 \text{ ms} \times 100\% = 98.4\%$

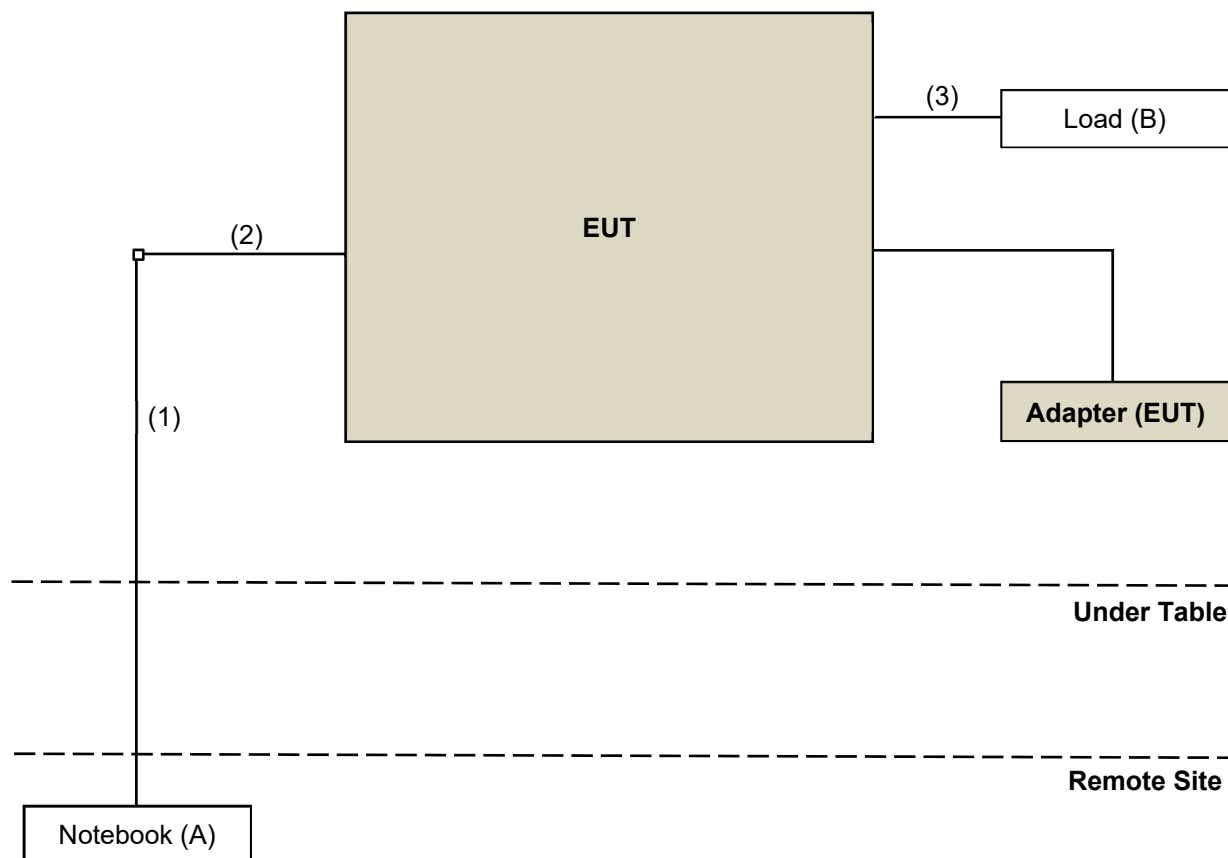
802.11ax (HE160): Duty cycle = $2.99 \text{ ms} / 3.04 \text{ ms} \times 100\% = 98.4\%$



3.6 Test Program Used and Operation Descriptions

Controlling software accessMTool_REL_3_3_0_1 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	Notebook	DELL	E5430	2RL3YW1	N/A	Provided by Lab
B	Load	N/A	N/A	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	LAN Cable	1	10	N	N	Provided by Lab
2	LAN Cable	1	1.93	N	N	Accessory of EUT
3	LAN Cable	4	1.5	N	N	Provided by Lab

4 Test Instruments

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

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
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
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2022/4/5	2023/4/4

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2022/9/28

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
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2022/4/5	2023/4/4

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2022/9/28 ~ 2022/10/5

4.3 Power Spectral Density

Refer to section 4.1 to get information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get information of the instruments.

4.6 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
AC Power Source 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: 2022/9/28

4.7 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
DC-LISN SCHWARZBECK MESS- ELETRONIK	NNBM 8126G	8126G-069	2021/11/10	2022/11/9
LISN R&S	ESH3-Z5	100220	2021/11/25	2022/11/24
LISN ROHDE & SCHWARZ	ENV216	101826	2022/3/14	2023/3/13
RF Coaxial Cable WOKEN	5D-FB	Cable-cond1-01	2022/1/15	2023/1/14
Software BVADT	BVADT_Cond_ V7.3.7.4	N/A	N/A	N/A
Test Receiver Rohde&Schwarz	ESCI	100613	2021/12/3	2022/12/2
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2022/8/31	2023/8/30

Notes:

1. The test was performed in HY - Conduction 1.
2. Tested Date: 2022/9/27

4.8 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower inn-co GmbH	MA 4000	010303	N/A	N/A
Bi_Log Antenna Schwarbeck	VULB9168	9168-155	2021/11/1	2022/10/31
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 Agilent	8447D	2944A10631	2022/5/14	2023/5/13
RF Coaxial Cable EMCI	5D-NM-BM	140903+140902	2022/1/15	2023/1/14
	EMC102-KM-KM-600	150928	2022/7/9	2023/7/8
	EMC102-KM-KM-3000	150929	2022/7/9	2023/7/8
RF Coaxial Cable WOKEN	8D-FB	Cable-CH4-01	2022/7/9	2023/7/8
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Spectrum Analyzer R&S	FSW43	101582	2022/4/13	2023/4/12
Test Receiver R&S	ESCI	100424	2021/12/30	2022/12/29
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 3.
2. Tested Date: 2022/9/27

4.9 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower inn-co GmbH	MA 4000	010303	N/A	N/A
Boresight antenna tower fixture BV	BAF-02	5	N/A	N/A
Horn Antenna Schwarzbeck	9120D	9120D-408	2021/11/14	2022/11/13
	BBHA 9170	9170-480	2021/11/14	2022/11/13
		BBHA9170241	2021/10/26	2022/10/25
		BBHA9170243	2021/11/14	2022/11/13
Pre-Amplifier EMCI	EMC 184045	980116	2021/10/5	2022/10/4
Pre_Amplifier KEYSIGHT	83017A	MY53270295	2022/5/14	2023/5/13
RF cable HUBER+SUHNER	Sucoflex 104	MY 13380+295012/04	2022/5/14	2023/5/13
RF Coaxial Cable EMCI	EMC102-KM-KM-600	150928	2022/7/9	2023/7/8
	EMC102-KM-KM-3000	150929	2022/7/9	2023/7/8
RF Coaxial Cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03(250724)	2022/5/14	2023/5/13
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Spectrum Analyzer R&S	FSW43	101582	2022/4/13	2023/4/12
Test Receiver R&S	ESCI	100424	2021/12/30	2022/12/29
Turn Table BV ADT	TT100	TT93021705	N/A	N/A
Turn Table Controller BV ADT	SC100	SC93021705	N/A	N/A

Notes:

1. The test was performed in HY - 966 chamber 3.
2. Tested Date: 2022/8/22 ~ 2022/9/28

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.	

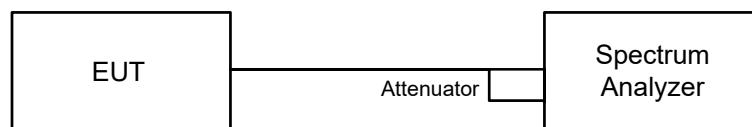
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

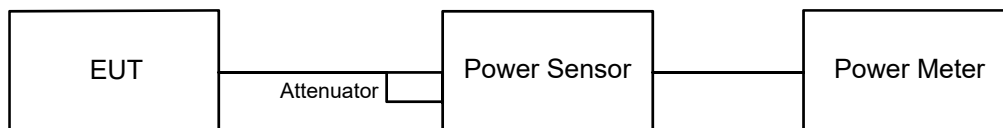


6.1.2 Test Procedure

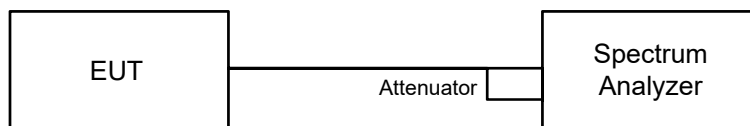
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement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

6.2 RF Output Power

6.2.1 Test Setup



For channel straddling:



6.2.2 Test Procedure

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

For channel straddling:

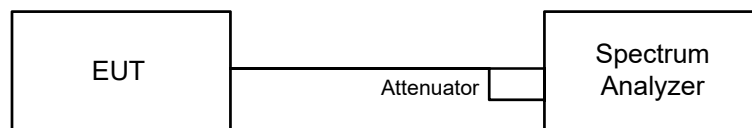
Method SA-1

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

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

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

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

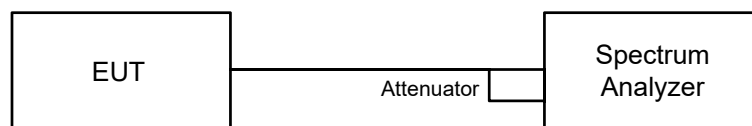
For specified measurement bandwidth 500 kHz:

Method SA-1

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

6.4 6 dB Bandwidth

6.4.1 Test Setup

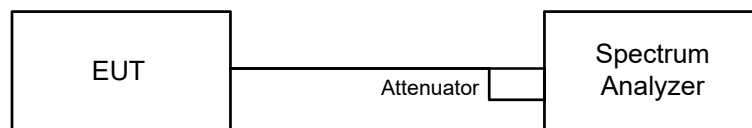


6.4.2 Test Procedure

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

6.5 Occupied Bandwidth

6.5.1 Test Setup

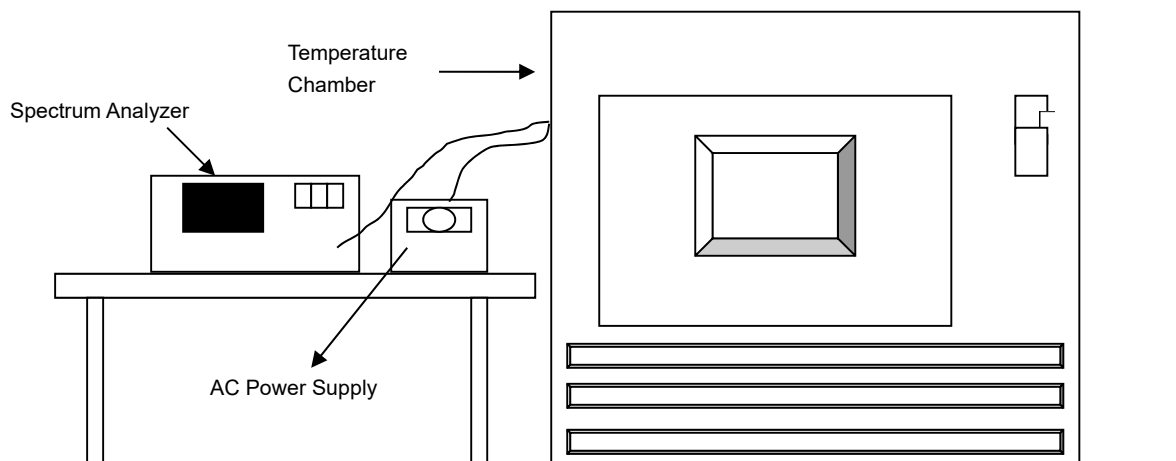


6.5.2 Test Procedure

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

6.6 Frequency Stability

6.6.1 Test Setup

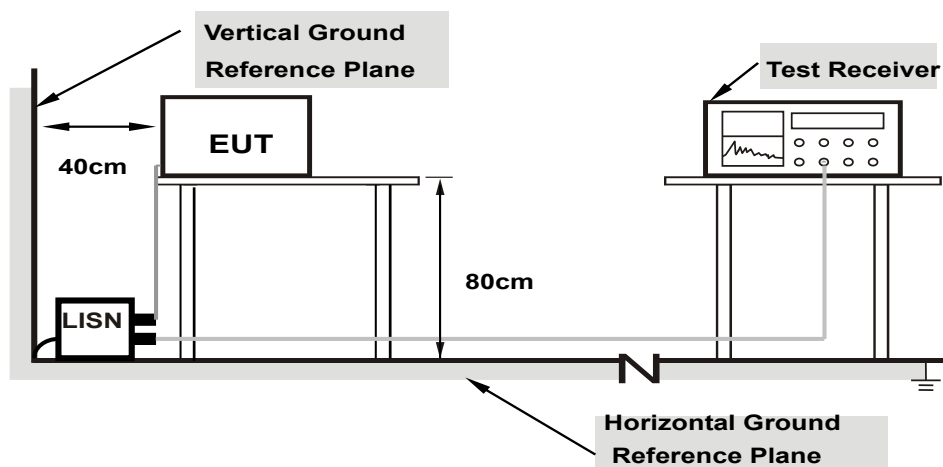


6.6.2 Test Procedure

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

6.7 AC Power Conducted Emissions

6.7.1 Test Setup



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

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

6.7.2 Test Procedure

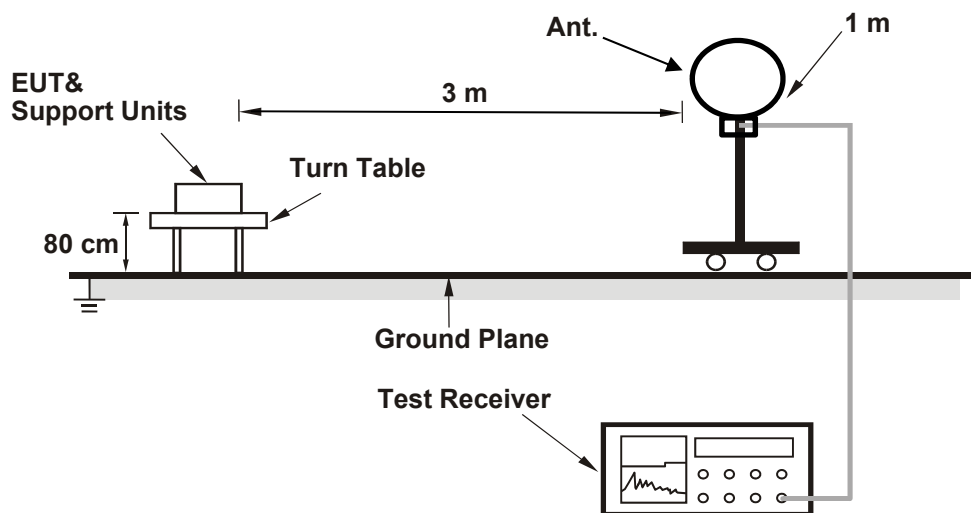
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

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

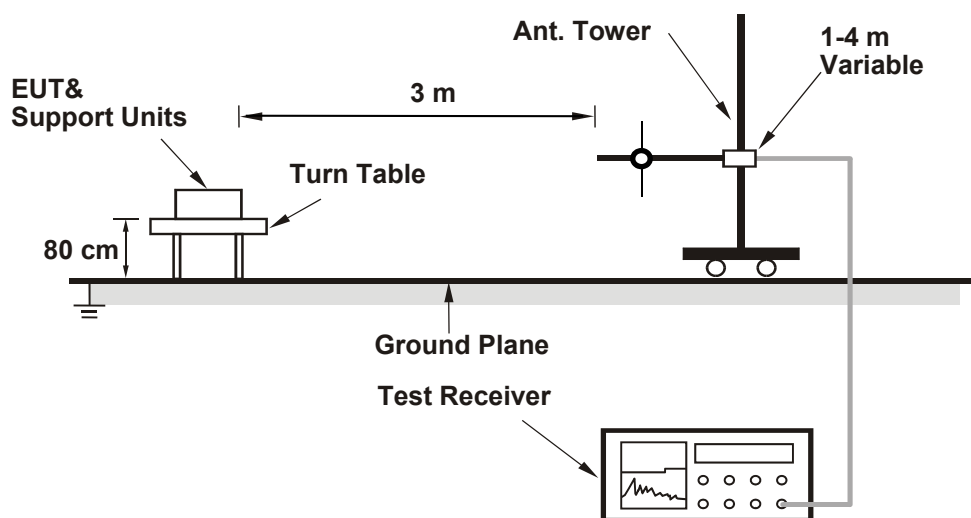
6.8 Unwanted Emissions below 1 GHz

6.8.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.8.2 Test Procedure

For Radiated emission below 30 MHz

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

Notes:

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

For Radiated emission above 30 MHz

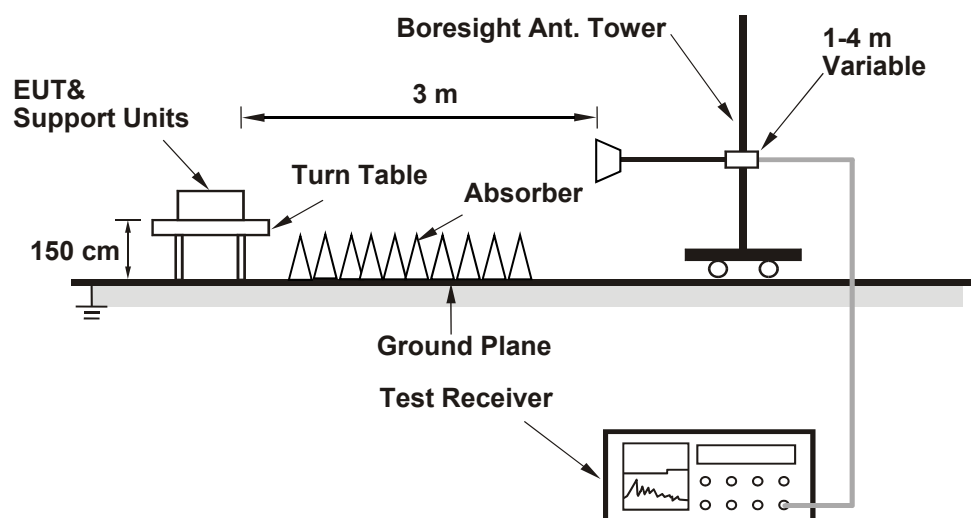
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

Notes:

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

6.9 Unwanted Emissions above 1 GHz

6.9.1 Test Setup



For 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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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	21.86	22.38
60	5300	21.77	22.28
64	5320	21.93	22.03
100	5500	21.83	22.07
116	5580	22.07	22.30
140	5700	21.80	22.25
144 (U-NII-2C)	5720	16.08	15.93
144 (U-NII-3)	5720	5.94	5.82

Determined Output Power Limit					
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)		
52	5260	21.86	24.39	>	24
60	5300	21.77	24.37	>	24
64	5320	21.93	24.41	>	24
100	5500	21.83	24.39	>	24
116	5580	22.07	24.43	>	24
140	5700	21.80	24.38	>	24
144 (U-NII-2C)	5720	15.93	23.02	<	24

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

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	22.05	23.43
60	5300	22.09	22.43
64	5320	21.85	22.54
100	5500	22.14	21.84
116	5580	22.17	22.26
140	5700	21.79	21.81
144 (U-NII-2C)	5720	16.06	15.98
144 (U-NII-3)	5720	6.22	6.27

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	22.05	24.43 > 24
60	5300	22.09	24.44 > 24
64	5320	21.85	24.39 > 24
100	5500	21.84	24.39 > 24
116	5580	22.17	24.45 > 24
140	5700	21.79	24.38 > 24
144 (U-NII-2C)	5720	15.98	23.03 < 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	41.77	53.42
62	5310	41.21	41.34
102	5510	41.53	41.23
110	5550	45.02	47.98
134	5670	41.50	44.70
142 (U-NII-2C)	5710	39.10	39.29
142 (U-NII-3)	5710	7.88	5.64

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	41.77	27.2 > 24
62	5310	41.21	27.15 > 24
102	5510	41.23	27.15 > 24
110	5550	45.02	27.53 > 24
134	5670	41.50	27.18 > 24
142 (U-NII-2C)	5710	39.10	26.92 > 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	82.34	82.39
106	5530	82.43	82.69
122	5610	82.73	82.82
138 (U-NII-2C)	5690	76.28	76.36
138 (U-NII-3)	5690	6.40	6.08

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	82.34	30.15 > 24
106	5530	82.43	30.16 > 24
122	5610	82.73	30.17 > 24
138 (U-NII-2C)	5690	76.28	29.82 > 24

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

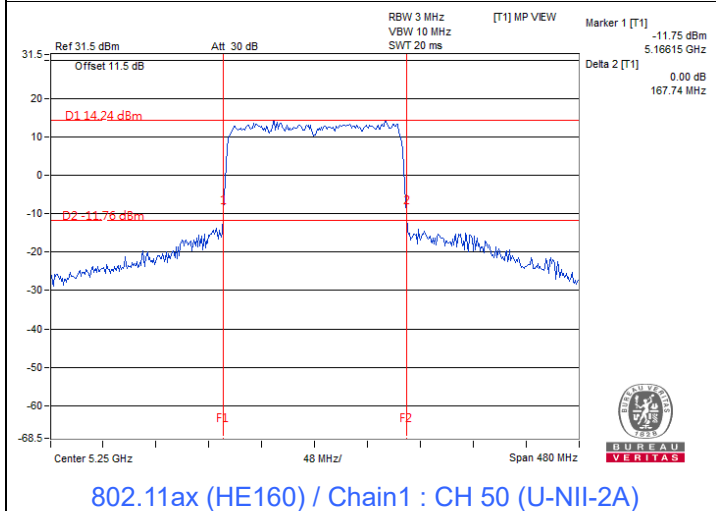
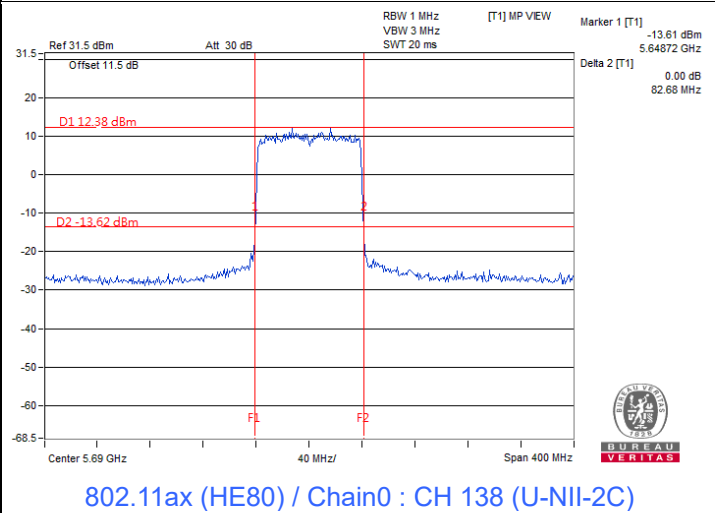
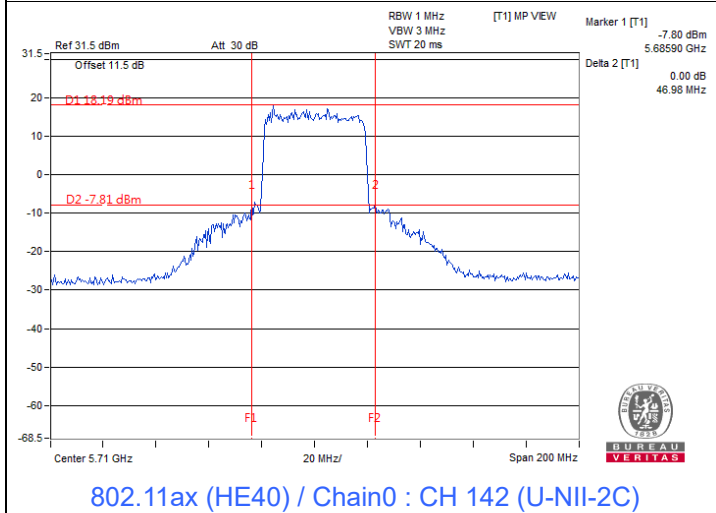
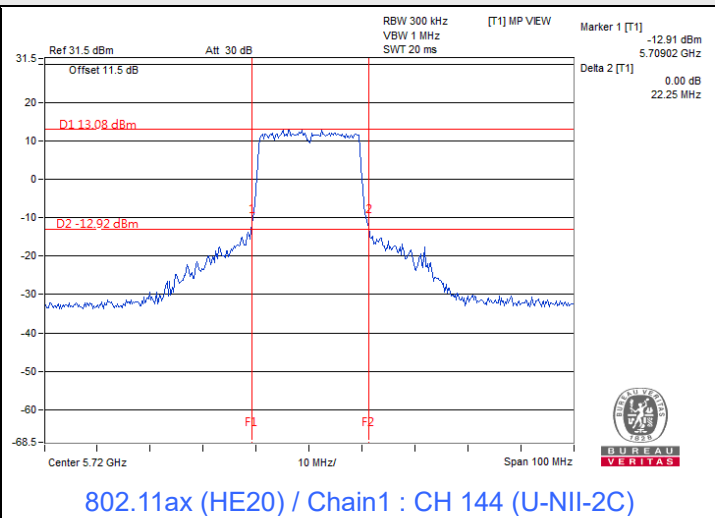
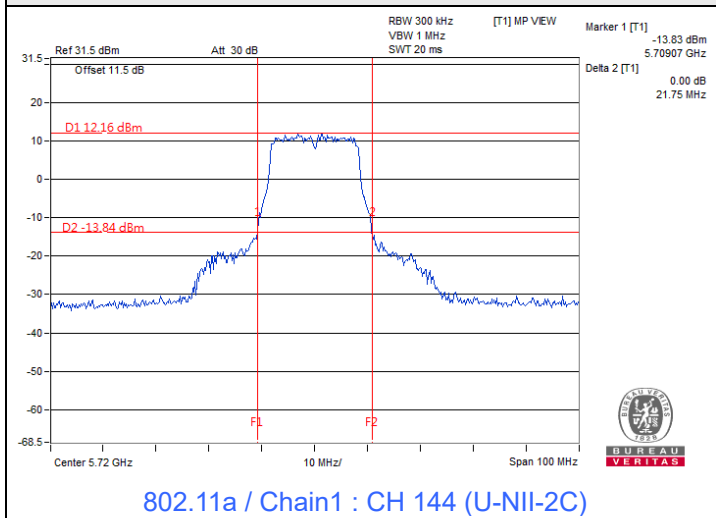
802.11ax (HE160)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-2A)	5250	84.35	83.89
114	5570	168.23	167.76

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
50 (U-NII-2A)	5250	83.89	30.23 > 24
114	5570	167.76	33.24 > 24

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

Spectrum Plot of Minimum Value



Notes:

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

7.2 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Vincent Huang/Ivan
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802.11a CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	21.28	21.79	285.285	24.55	30	Pass
40	5200	24.52	25.45	633.891	28.02	30	Pass
48	5240	24.39	25.17	603.641	27.81	30	Pass
52	5260	20.02	20.35	208.854	23.20	24	Pass
60	5300	20.19	20.29	211.378	23.25	24	Pass
64	5320	20.02	20.36	209.104	23.20	24	Pass
100	5500	19.52	19.65	181.794	22.60	24	Pass
116	5580	20.08	20.15	205.373	23.13	24	Pass
140	5700	19.08	19.67	173.593	22.40	24	Pass
*144 (U-NII-2C)	5720	18.66	18.84	150.011	21.76	23.02	Pass
*144 (U-NII-3)	5720	12.72	12.74	37.500	15.74	30	Pass
149	5745	26.22	26.25	840.490	29.25	30	Pass
157	5785	26.35	26.19	847.430	29.28	30	Pass
165	5825	26.24	26.26	843.395	29.26	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.85 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 2.85 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 2.87 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.38 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	20.76	21.45	258.761	24.13	30	Pass
40	5200	23.72	24.64	526.577	27.21	30	Pass
48	5240	24.38	24.62	563.892	27.51	30	Pass
52	5260	20.12	20.42	212.956	23.28	24	Pass
60	5300	20.24	20.29	212.587	23.28	24	Pass
64	5320	20.14	20.26	209.446	23.21	24	Pass
100	5500	19.72	19.87	190.807	22.81	24	Pass
116	5580	20.17	20.31	211.391	23.25	24	Pass
140	5700	18.22	18.45	136.359	21.35	24	Pass
*144 (U-NII-2C)	5720	18.67	18.55	145.235	21.62	23.03	Pass
*144 (U-NII-3)	5720	13.30	13.43	43.409	16.38	30	Pass
149	5745	26.23	26.26	842.428	29.26	30	Pass
157	5785	26.25	26.31	849.259	29.29	30	Pass
165	5825	26.25	26.22	840.490	29.25	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 2.85 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 2.85 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 2.87 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.38 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	19.68	19.85	189.502	22.78	30	Pass
46	5230	23.55	24.02	478.813	26.80	30	Pass
54	5270	19.78	20.42	205.214	23.12	24	Pass
62	5310	18.54	19.05	151.802	21.81	24	Pass
102	5510	17.57	17.94	119.378	20.77	24	Pass
110	5550	20.21	20.37	213.847	23.30	24	Pass
134	5670	20.24	20.28	212.341	23.27	24	Pass
*142 (U-NII-2C)	5710	19.56	19.48	179.081	22.53	24	Pass
*142 (U-NII-3)	5710	9.07	9.29	16.564	12.19	30	Pass
151	5755	24.41	24.57	562.476	27.50	30	Pass
159	5795	25.35	25.27	679.279	28.32	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.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.85 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 2.85 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 2.87 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.38 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	19.55	19.95	189.012	22.76	30	Pass
58	5290	18.75	18.43	144.652	21.60	24	Pass
106	5530	18.15	18.55	136.927	21.36	24	Pass
122	5610	20.05	20.51	213.618	23.30	24	Pass
*138 (U-NII-2C)	5690	19.67	19.54	182.633	22.62	24	Pass
*138 (U-NII-3)	5690	6.24	6.20	8.376	9.23	30	Pass
155	5775	23.19	23.31	422.738	26.26	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.85 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 2.85 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 2.87 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 3.38 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE160) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	14.96	15.23	64.675	18.11	30	Pass
*50 (U-NII-2A)	5250	15.34	15.38	68.712	18.37	24	Pass
114	5570	17.96	18.02	125.904	21.00	24	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 2.85 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 2.85 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 2.87 dBi < 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	20.76	21.45	258.761	24.13	30	Pass
40	5200	23.72	24.64	526.577	27.21	30	Pass
48	5240	24.38	24.62	563.892	27.51	30	Pass
52	5260	20.12	20.42	212.956	23.28	24	Pass
60	5300	20.24	20.29	212.587	23.28	24	Pass
64	5320	20.14	20.26	209.446	23.21	24	Pass
100	5500	19.72	19.87	190.807	22.81	24	Pass
116	5580	20.17	20.31	211.391	23.25	24	Pass
140	5700	18.22	18.45	136.359	21.35	24	Pass
*144 (U-NII-2C)	5720	18.67	18.55	145.235	21.62	23.03	Pass
*144 (U-NII-3)	5720	13.30	13.43	43.409	16.38	29.96	Pass
149	5745	26.23	26.26	842.428	29.26	29.96	Pass
157	5785	26.25	26.31	849.259	29.29	29.96	Pass
165	5825	26.25	26.22	840.490	29.25	29.96	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 5.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.82 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.86 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 6.04 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.04 - 6) = 29.96$ dBm.

802.11ax (HE40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	19.68	19.85	189.502	22.78	30	Pass
46	5230	23.55	24.02	478.813	26.80	30	Pass
54	5270	19.78	20.42	205.214	23.12	24	Pass
62	5310	18.54	19.05	151.802	21.81	24	Pass
102	5510	17.57	17.94	119.378	20.77	24	Pass
110	5550	20.21	20.37	213.847	23.30	24	Pass
134	5670	20.24	20.28	212.341	23.27	24	Pass
*142 (U-NII-2C)	5710	19.56	19.48	179.081	22.53	24	Pass
*142 (U-NII-3)	5710	9.07	9.29	16.564	12.19	29.96	Pass
151	5755	24.41	24.57	562.476	27.50	29.96	Pass
159	5795	25.35	25.27	679.279	28.32	29.96	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 5.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.82 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.86 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 6.04 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.04 - 6) = 29.96$ dBm.

802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	19.55	19.95	189.012	22.76	30	Pass
58	5290	18.75	18.43	144.652	21.60	24	Pass
106	5530	18.15	18.55	136.927	21.36	24	Pass
122	5610	20.05	20.51	213.618	23.30	24	Pass
*138 (U-NII-2C)	5690	19.67	19.54	182.633	22.62	24	Pass
*138 (U-NII-3)	5690	6.24	6.20	8.376	9.23	29.96	Pass
155	5775	23.19	23.31	422.738	26.26	29.96	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 = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 5.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.82 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.86 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the directional gain is 6.04 dBi > 6 dBi, so the output power limit shall be reduced to $30 - (6.04 - 6) = 29.96$ dBm.

802.11ax (HE160) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
*50 (U-NII-1)	5250	14.96	15.23	64.675	18.11	30	Pass
*50 (U-NII-2A)	5250	15.34	15.38	68.712	18.37	24	Pass
114	5570	17.96	18.02	125.904	21.00	24	Pass

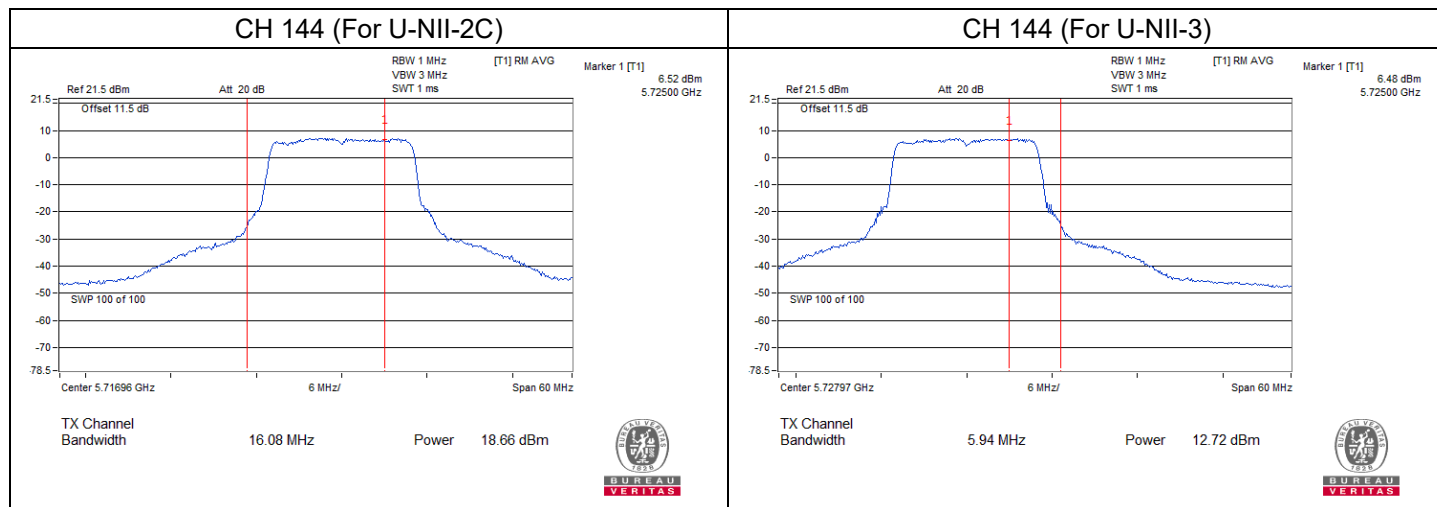
Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-1, the directional gain is 5.7 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.82 dBi < 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.86 dBi < 6 dBi, so the output power limit shall not be reduced.

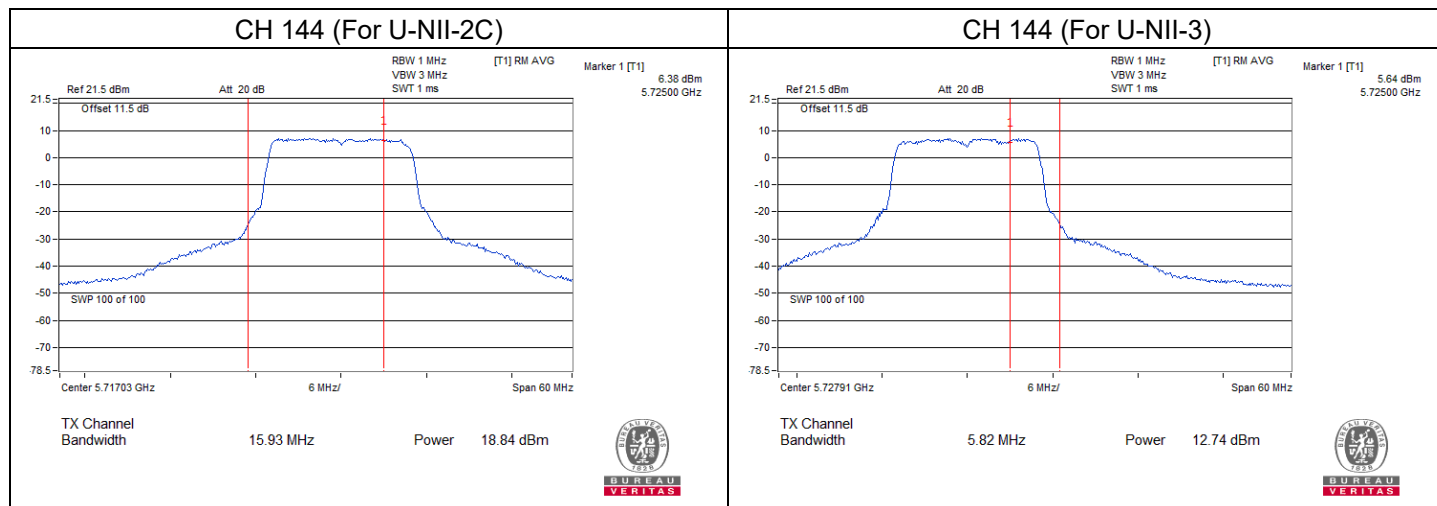
Straddle channel power plots:

802.11a

Chain 0

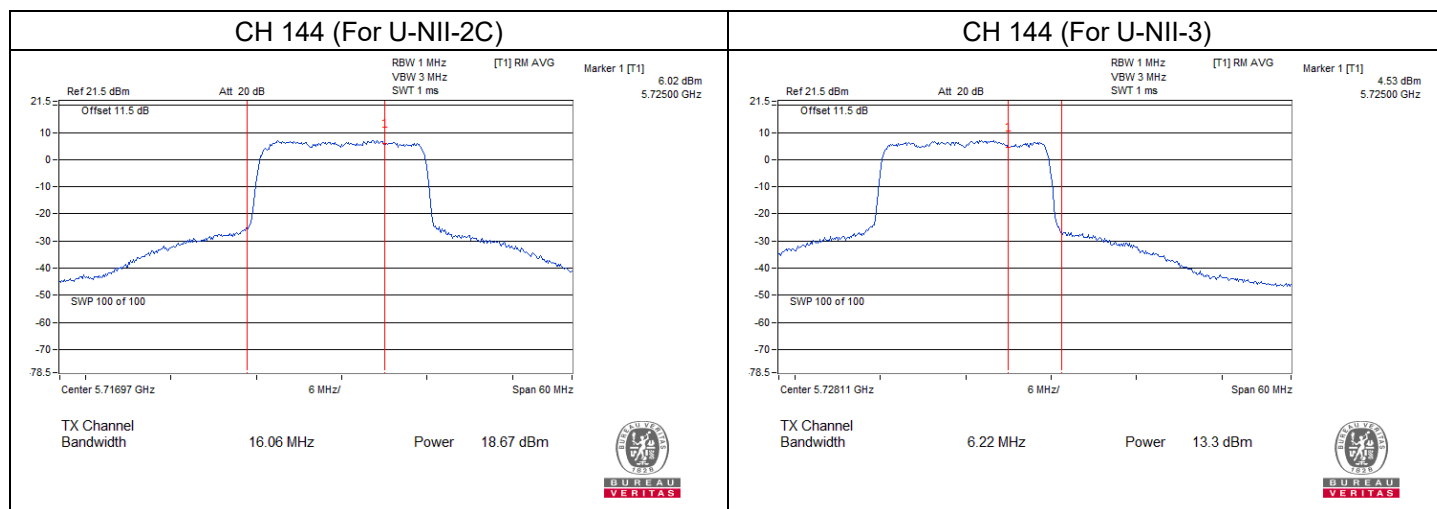


Chain 1

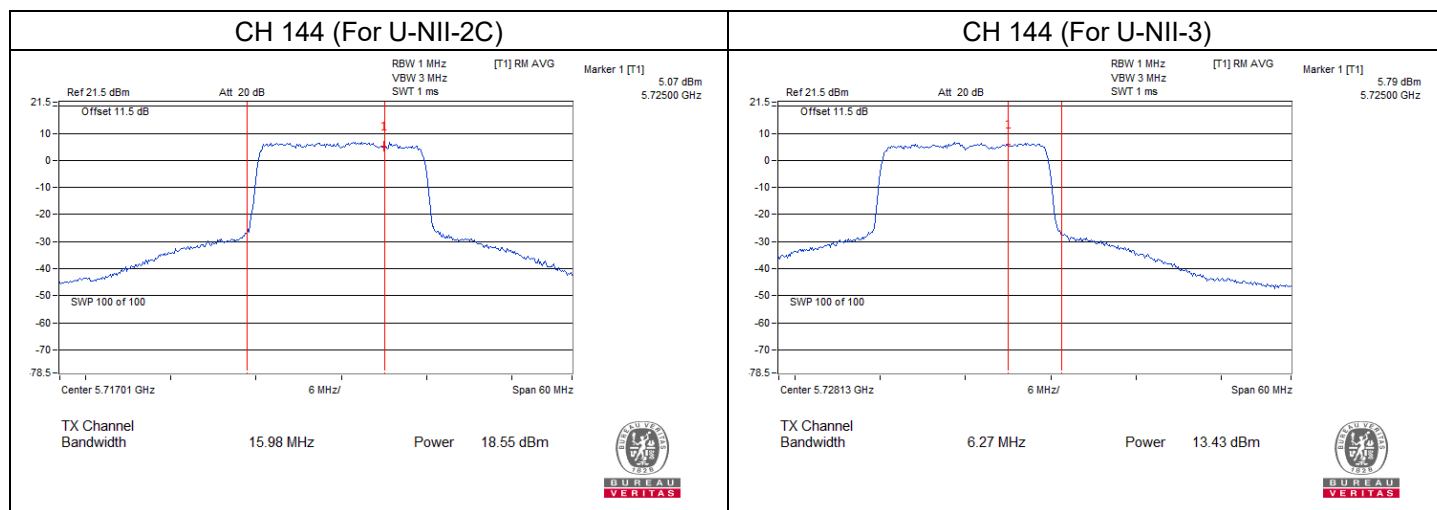


802.11ax (HE20)

Chain 0

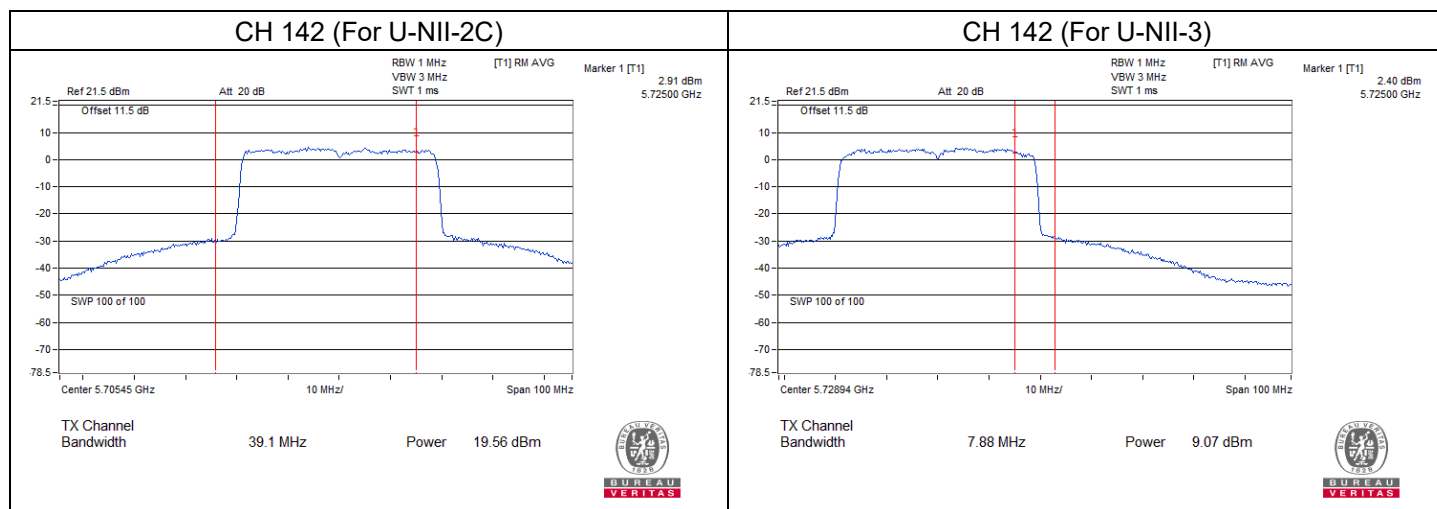


Chain 1

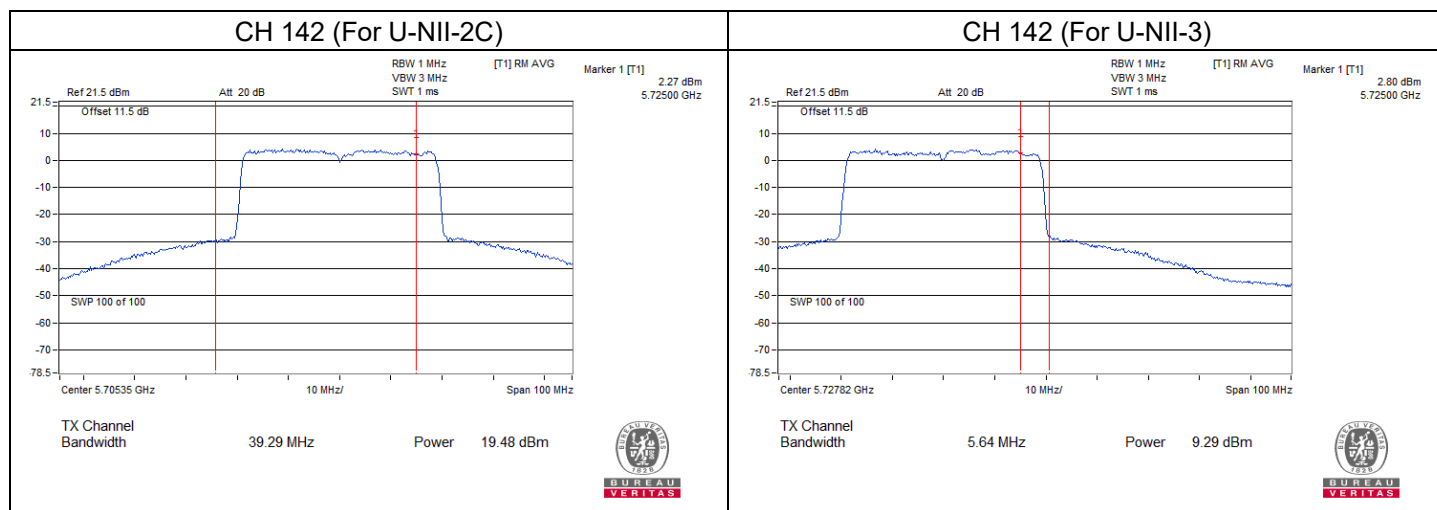


802.11ax (HE40)

Chain 0

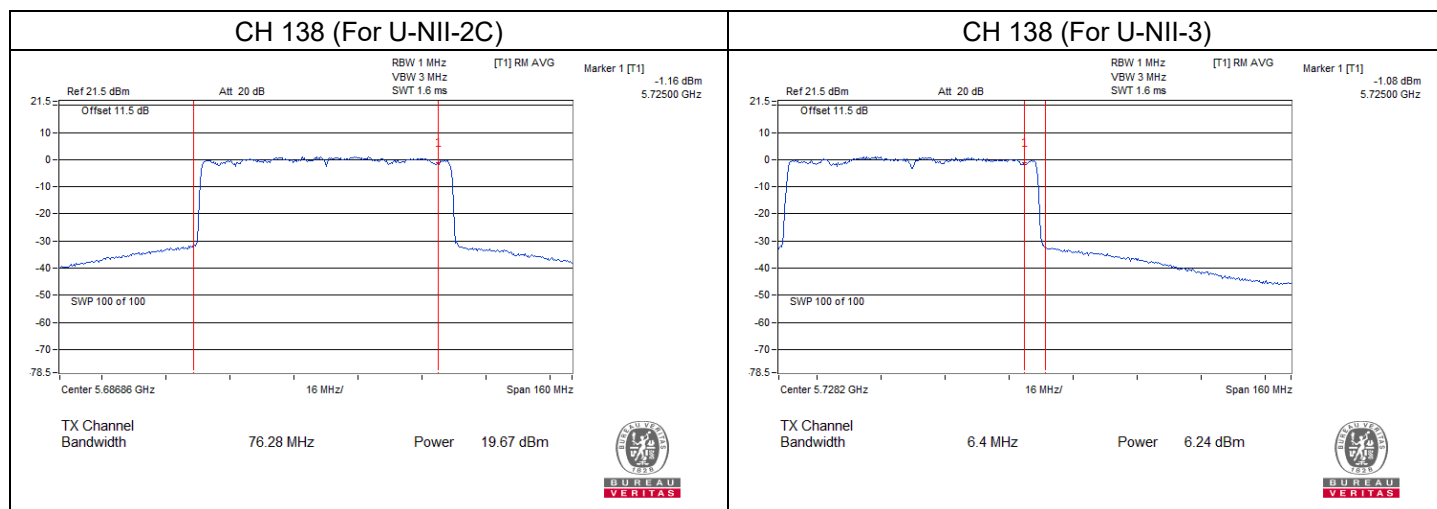


Chain 1

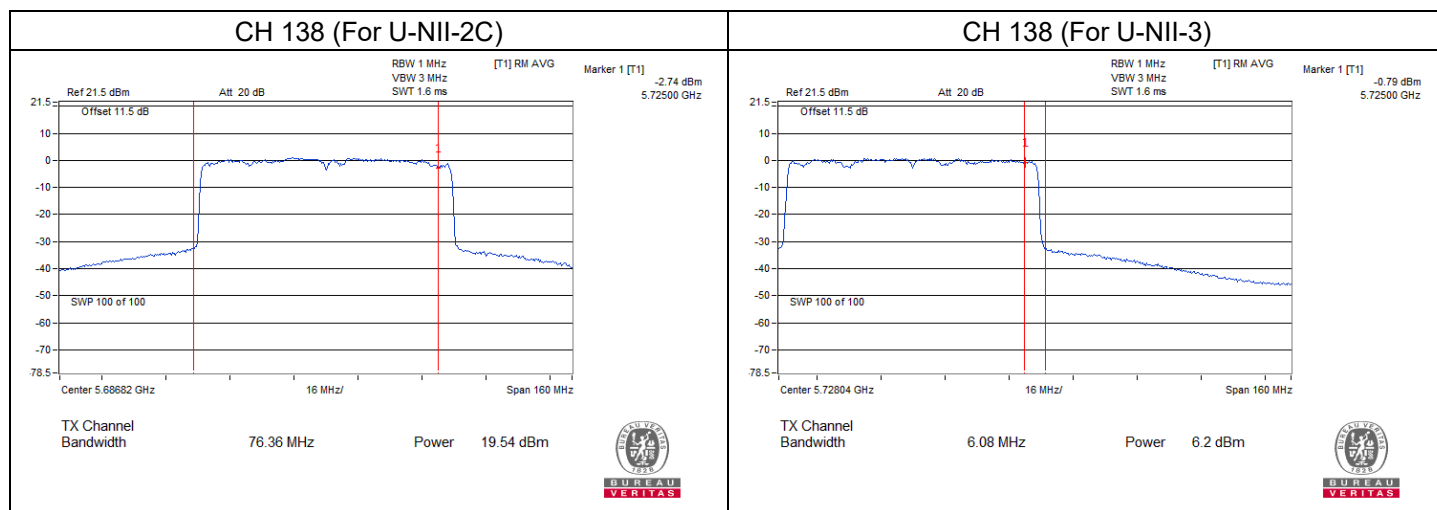


802.11ax (HE80)

Chain 0

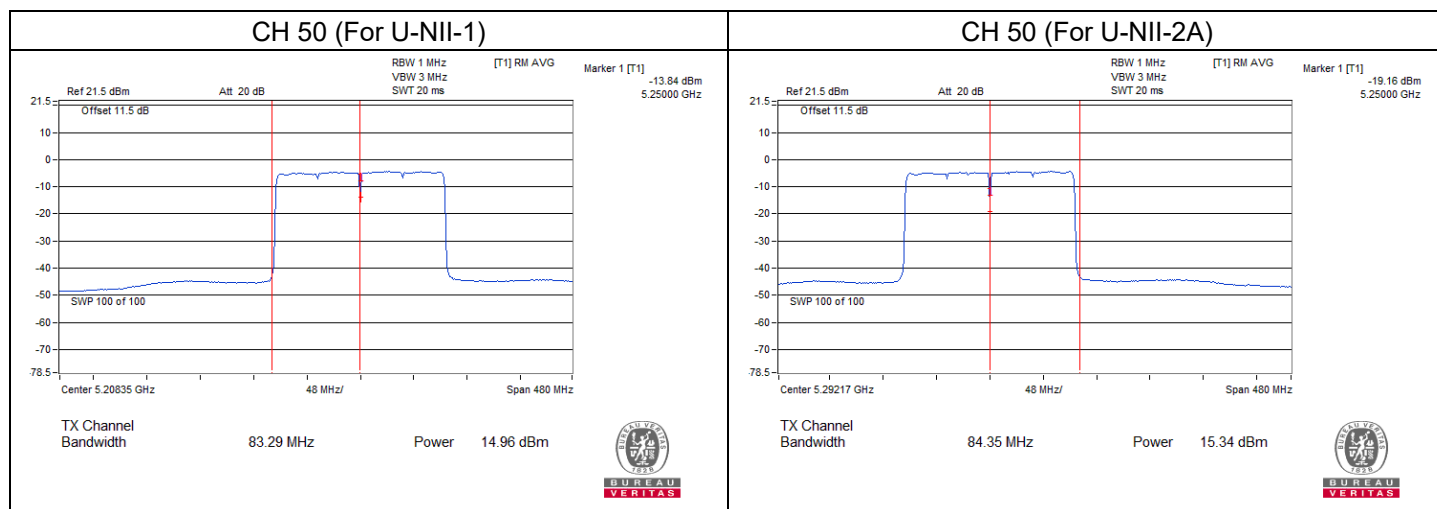


Chain 1

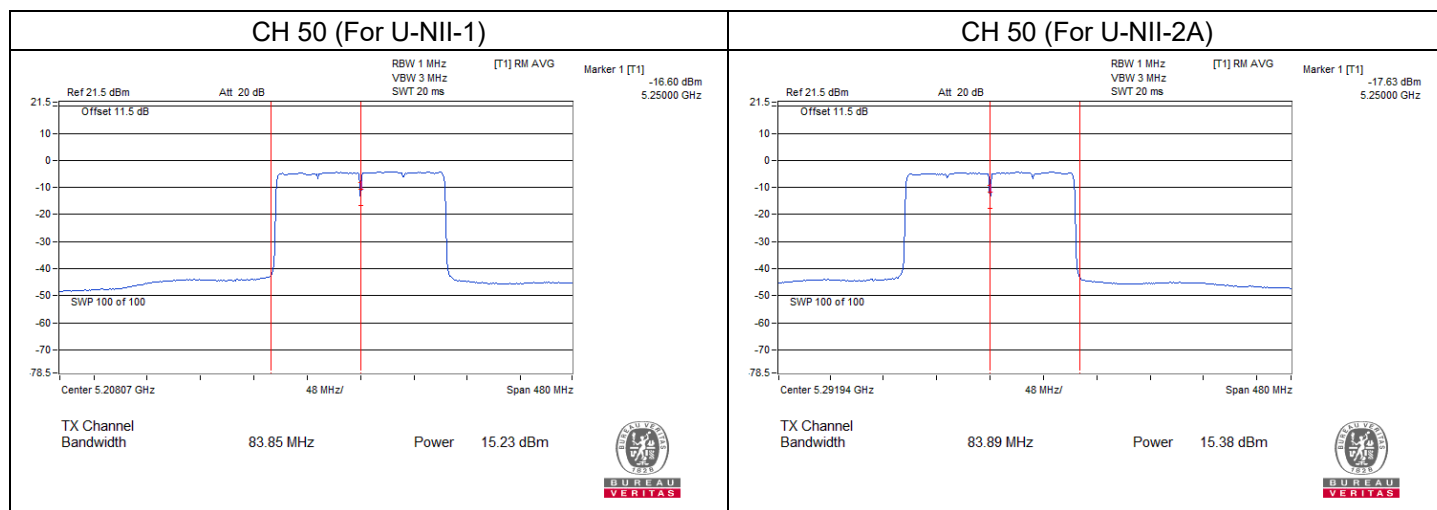


802.11ax (HE160)

Chain 0



Chain 1



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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802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	7.75	8.29	11.04	17.00	Pass
40	5200	11.18	11.83	14.53	17.00	Pass
48	5240	11.14	11.98	14.59	17.00	Pass
52	5260	6.61	6.85	9.74	11.00	Pass
60	5300	7.04	7.11	10.09	11.00	Pass
64	5320	6.97	7.08	10.04	11.00	Pass
100	5500	6.11	6.14	9.14	11.00	Pass
116	5580	6.99	6.87	9.94	11.00	Pass
140	5700	5.88	6.56	9.24	11.00	Pass
144 (U-NII-2C)	5720	6.93	7.07	10.01	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 5.7 dBi < 6dBi, so the power density limit shall not be reduced.
- For U-NII-2A, the directional gain is 5.82 dBi < 6 dBi, so the power density limit shall not be reduced.
- For U-NII-2C, the directional gain is 5.86 dBi < 6 dBi, so the power density limit shall not be reduced.

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	7.73	8.13	10.94	17.00	Pass
40	5200	10.70	11.68	14.23	17.00	Pass
48	5240	11.04	11.59	14.33	17.00	Pass
52	5260	6.89	6.91	9.91	11.00	Pass
60	5300	6.99	7.09	10.05	11.00	Pass
64	5320	6.62	7.00	9.82	11.00	Pass
100	5500	6.27	6.23	9.26	11.00	Pass
116	5580	6.86	7.04	9.96	11.00	Pass
140	5700	5.04	5.23	8.15	11.00	Pass
144 (U-NII-2C)	5720	6.77	6.95	9.87	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 5.7 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.82 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.86 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	3.37	3.43	6.41	17.00	Pass
46	5230	7.25	7.79	10.54	17.00	Pass
54	5270	3.63	4.30	6.99	11.00	Pass
62	5310	2.55	3.03	5.81	11.00	Pass
102	5510	1.37	1.89	4.65	11.00	Pass
110	5550	4.15	4.50	7.34	11.00	Pass
134	5670	3.63	3.81	6.73	11.00	Pass
142 (U-NII-2C)	5710	3.60	3.77	6.70	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 5.7 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.82 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.86 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	0.56	0.73	3.66	17.00	Pass
58	5290	-0.30	-0.42	2.65	11.00	Pass
106	5530	-1.44	-0.80	1.90	11.00	Pass
122	5610	0.90	1.27	4.10	11.00	Pass
138 (U-NII-2C)	5690	0.66	1.00	3.84	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 5.7 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.82 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.86 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	-4.36	-3.56	-0.93	17.00	Pass
50 (U-NII-2A)	5250	-3.83	-3.34	-0.57	11.00	Pass
114	5570	-4.15	-4.24	-1.18	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 5.7 dBi < 6dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 5.82 dBi < 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 5.86 dBi < 6 dBi, so the power density limit shall not be reduced.

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
144 (U-NII-3)	5720	-1.68	-1.51	1.42	3.64	29.96	Pass
149	5745	4.98	4.51	7.76	9.98	29.96	Pass
157	5785	4.96	4.58	7.78	10.00	29.96	Pass
165	5825	5.04	4.74	7.9	10.12	29.96	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 6.04 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.04 - 6) = 29.96$ dBm/500kHz.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
144 (U-NII-3)	5720	-2.48	-2.29	0.63	2.85	29.96	Pass
149	5745	3.83	3.53	6.69	8.91	29.96	Pass
157	5785	3.87	3.99	6.94	9.16	29.96	Pass
165	5825	3.97	3.91	6.95	9.17	29.96	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 6.04 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.04 - 6) = 29.96$ dBm/500kHz.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
142 (U-NII-3)	5710	-5.94	-6.05	-2.98	-0.76	29.96	Pass
151	5755	-0.97	-0.94	2.06	4.28	29.96	Pass
159	5795	-0.08	-0.34	2.8	5.02	29.96	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
3. For U-NII-3, the directional gain is 6.04 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.04 - 6) = 29.96$ dBm/500kHz.

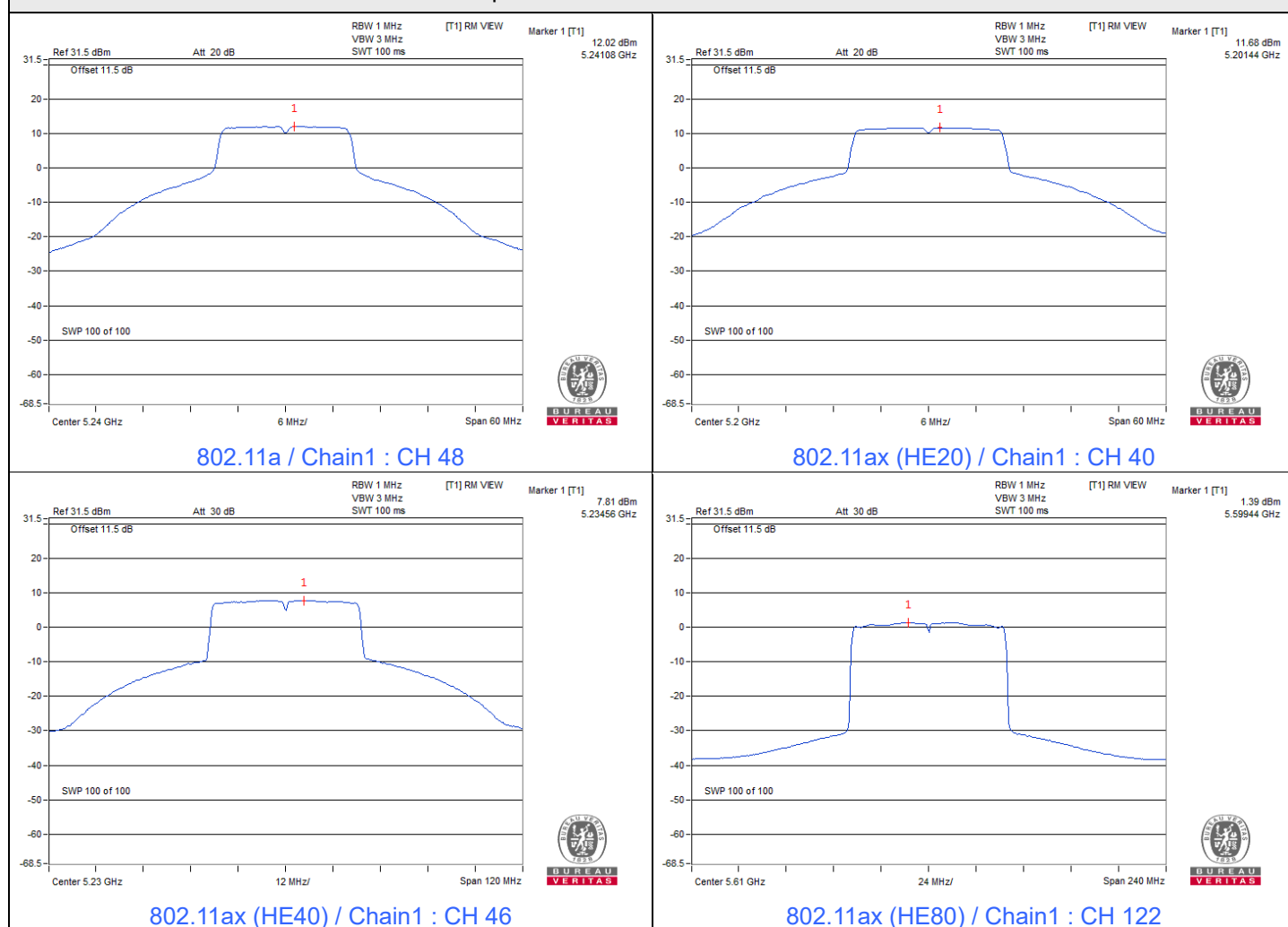
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
138 (U-NII-3)	5690	-9.90	-9.30	-6.58	-4.36	29.96	Pass
155	5775	-5.29	-5.09	-2.18	0.04	29.96	Pass

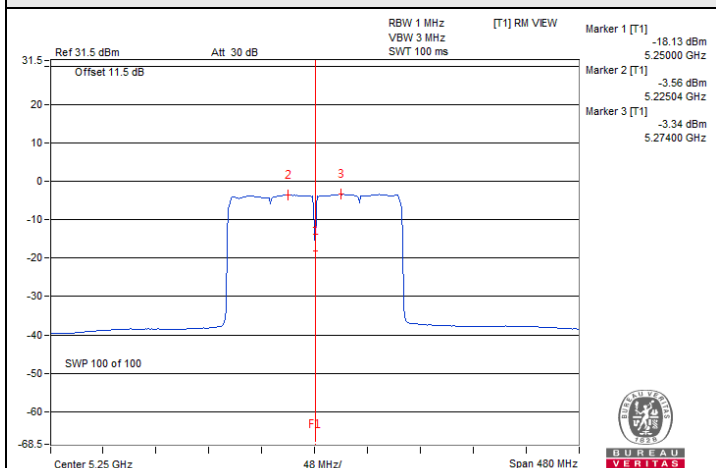
Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain = $10 \log[(10^{\text{Chain0}/20} + 10^{\text{Chain1}/20})^2 / 2]$
- For U-NII-3, the directional gain is 6.04 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.04 - 6) = 29.96 \text{ dBm/500kHz}$.

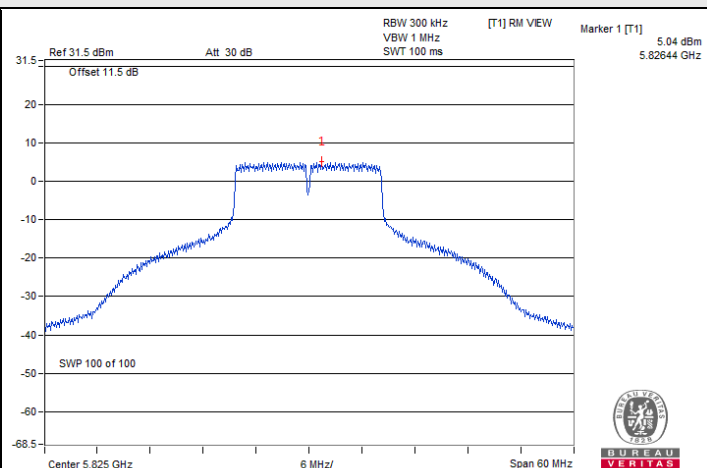
Spectrum Plot of Maximum Value



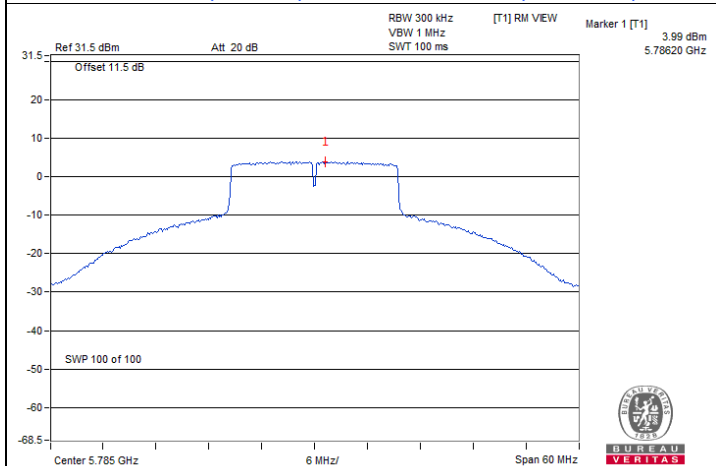
Spectrum Plot of Maximum Value



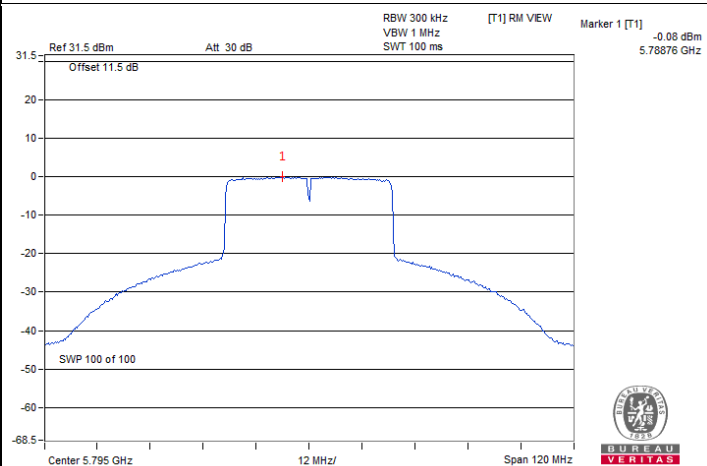
802.11ax (HE160) / Chain1 : CH 50 (U-NII-2A)



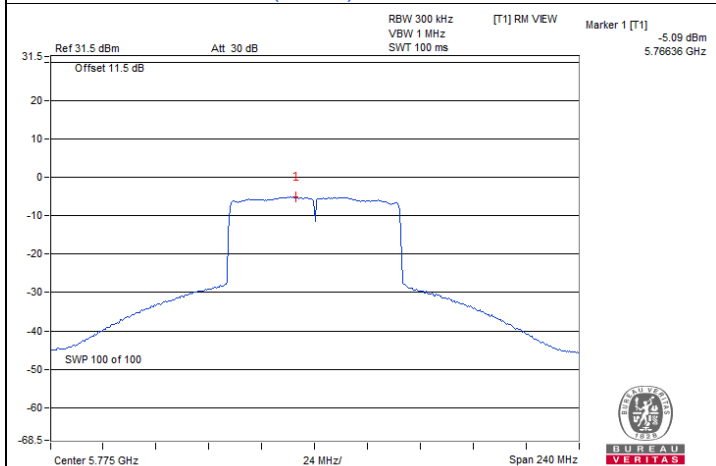
802.11a / Chain0 : CH 165



802.11ax (HE20) / Chain1 : CH 157



802.11ax (HE40) / Chain0 : CH 159



802.11ax (HE80) / Chain1 : CH 155

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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802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	3.18	3.17	0.5	Pass
149	5745	16.40	16.42	0.5	Pass
157	5785	16.40	16.41	0.5	Pass
165	5825	16.39	16.42	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
144 (U-NII-3)	5720	4.49	4.48	0.5	Pass
149	5745	18.98	18.57	0.5	Pass
157	5785	18.96	18.04	0.5	Pass
165	5825	19.01	18.53	0.5	Pass

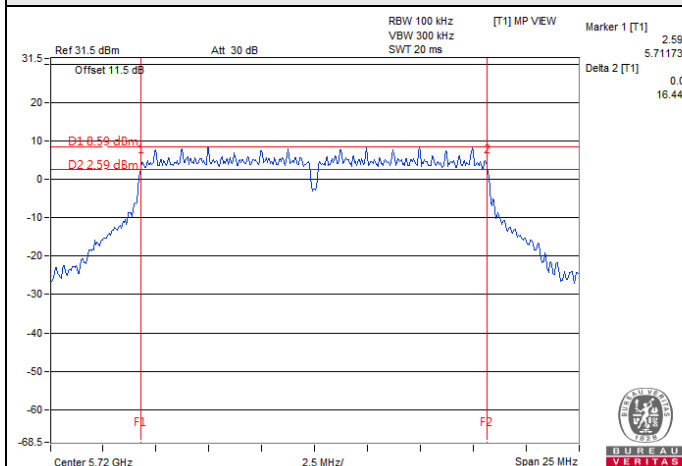
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
142 (U-NII-3)	5710	3.84	3.51	0.5	Pass
151	5755	37.74	37.31	0.5	Pass
159	5795	37.76	37.39	0.5	Pass

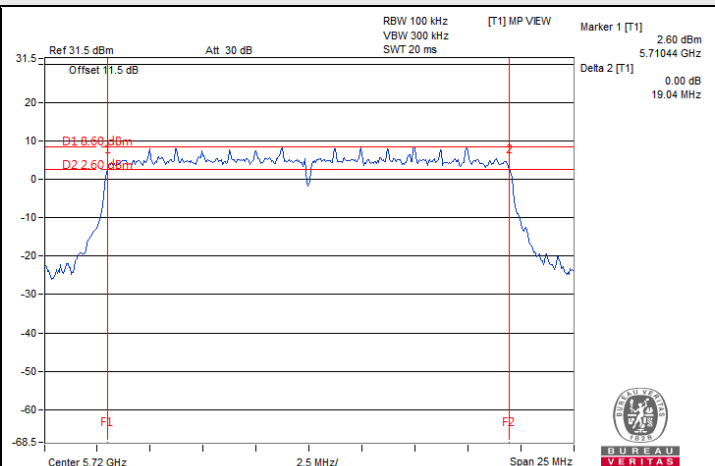
802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
138 (U-NII-3)	5690	3.56	3.81	0.5	Pass
155	5775	77.51	77.26	0.5	Pass

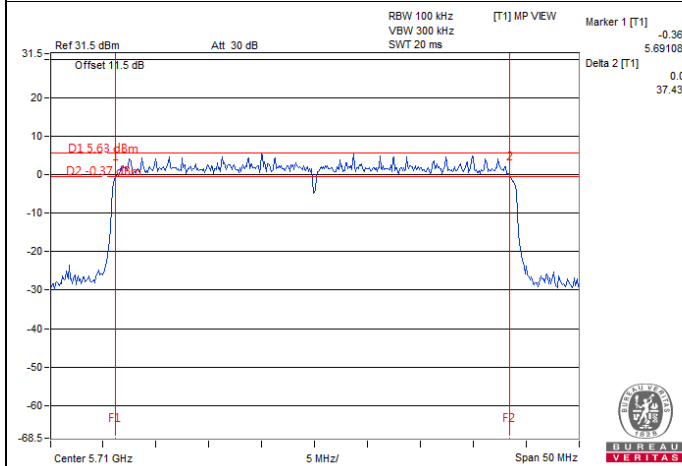
Spectrum Plot of Minimum Value



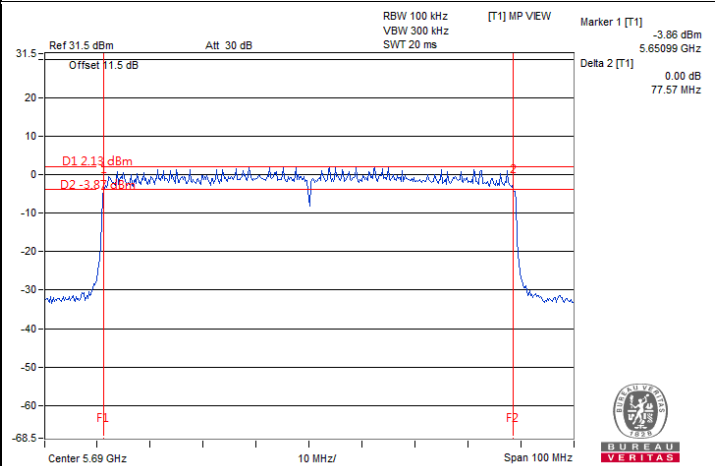
802.11a / Chain1 : CH 144 (U-NII-3)



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



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



802.11ax (HE80) / Chain0 : CH 138 (U-NII-3)

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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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.04	17.40
40	5200	21.72	34.32
48	5240	19.80	20.04
52	5260	17.04	16.92
60	5300	17.04	17.04
64	5320	17.04	16.92
100	5500	17.16	16.92
116	5580	17.04	17.04
140	5700	16.92	16.92
144 (U-NII-2C)	5720	13.64	13.64
144 (U-NII-3)	5720	3.52	3.40
149	5745	25.67	34.20
157	5785	24.90	39.00
165	5825	24.62	38.04

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.20	19.32
40	5200	20.04	39.36
48	5240	19.56	19.80
52	5260	19.20	19.20
60	5300	19.08	19.20
64	5320	19.08	19.20
100	5500	19.08	19.20
116	5580	19.20	19.20
140	5700	19.08	19.08
144 (U-NII-2C)	5720	14.72	14.60
144 (U-NII-3)	5720	4.48	4.48
149	5745	27.41	37.48
157	5785	26.73	38.28
165	5825	27.60	38.16

802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	38.16	38.88
46	5230	38.88	38.88
54	5270	37.92	38.16
62	5310	37.92	37.68
102	5510	37.92	38.16
110	5550	37.89	38.16
134	5670	37.92	38.16
142 (U-NII-2C)	5710	34.20	34.20
142 (U-NII-3)	5710	3.96	3.72
151	5755	38.46	42.96
159	5795	38.85	57.84

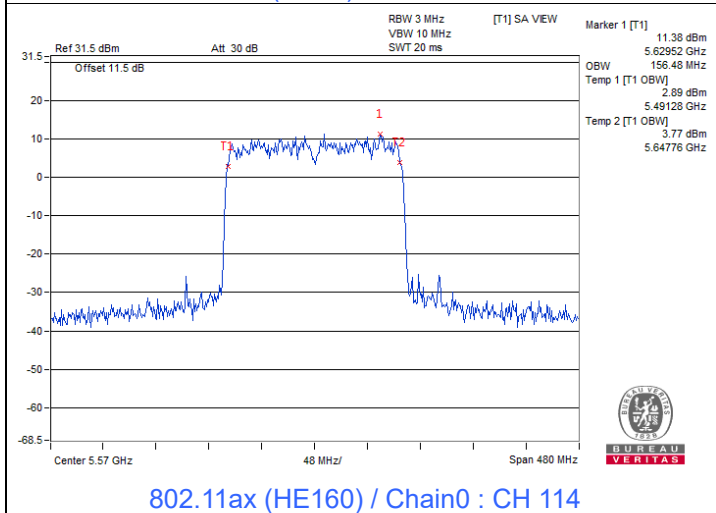
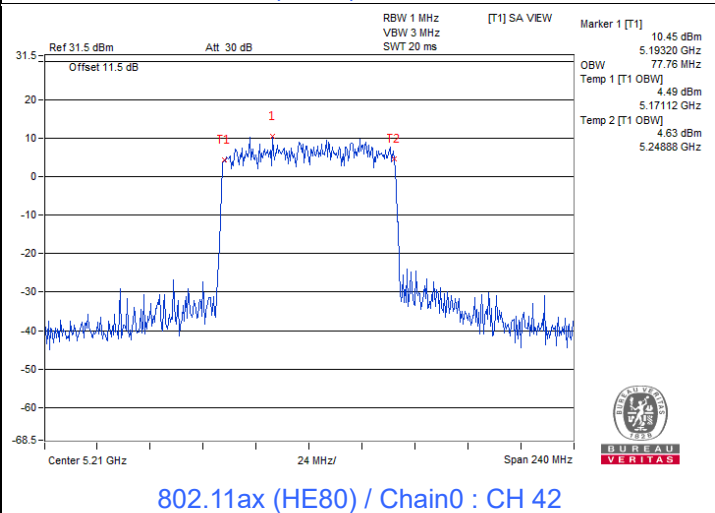
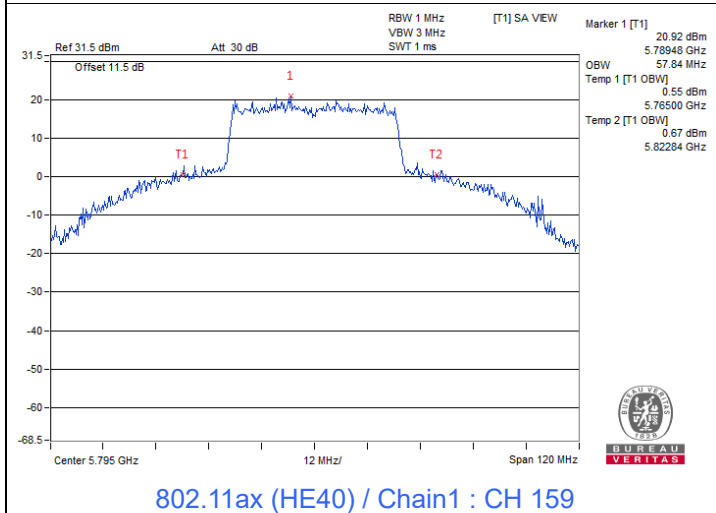
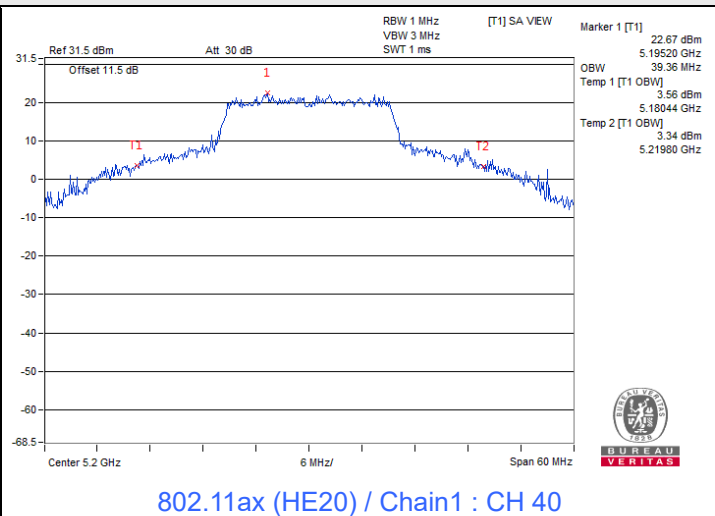
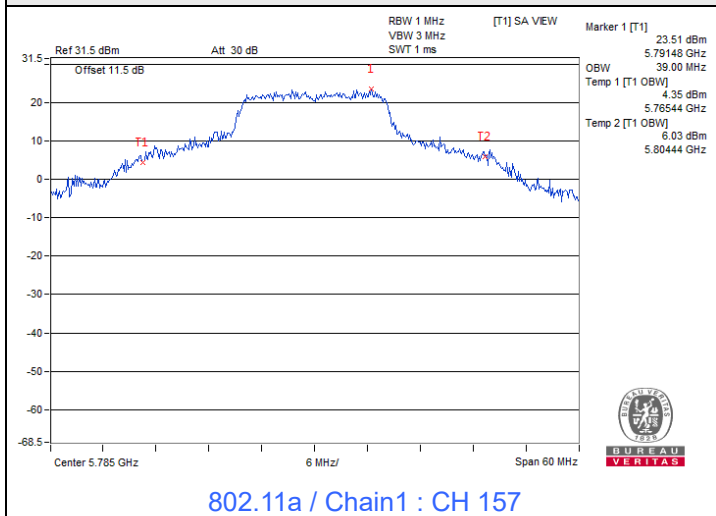
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	77.76	77.28
58	5290	77.28	77.28
106	5530	77.31	77.28
122	5610	77.28	77.28
138 (U-NII-2C)	5690	73.88	73.88
138 (U-NII-3)	5690	3.40	3.40
155	5775	76.93	77.76

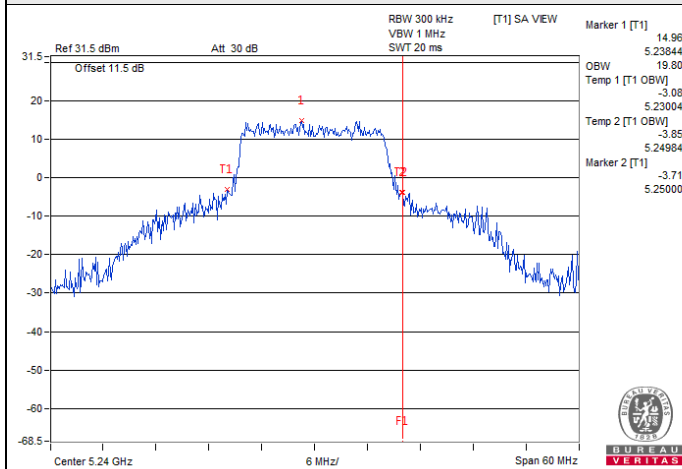
802.11ax (HE160)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1)	5250	77.91	78.72
50 (U-NII-2A)	5250	77.91	77.76
114	5570	156.48	156.48

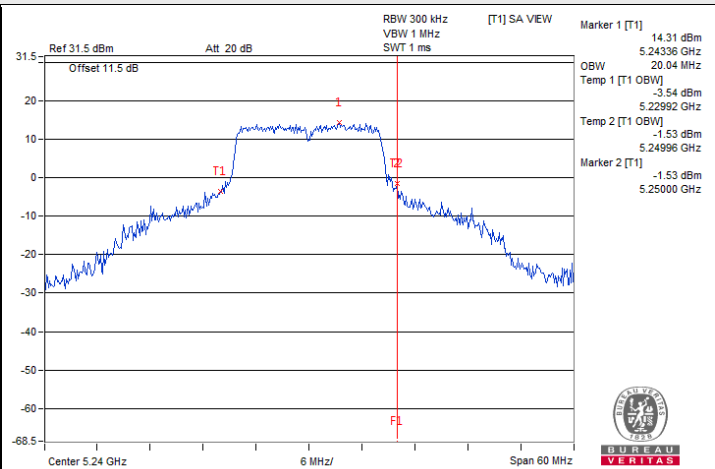
Spectrum Plot of Maximum Value



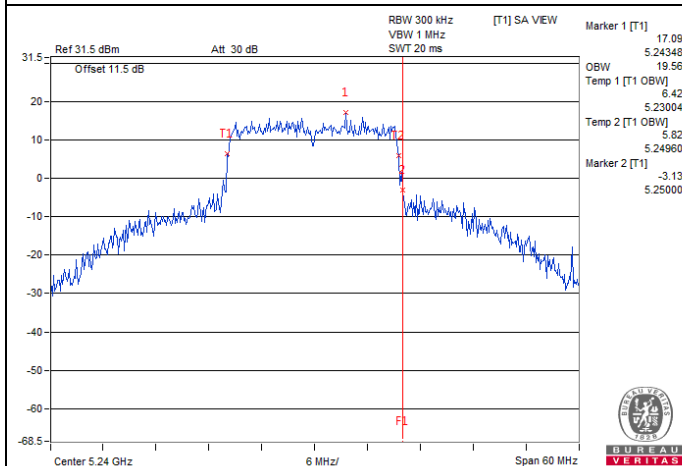
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)



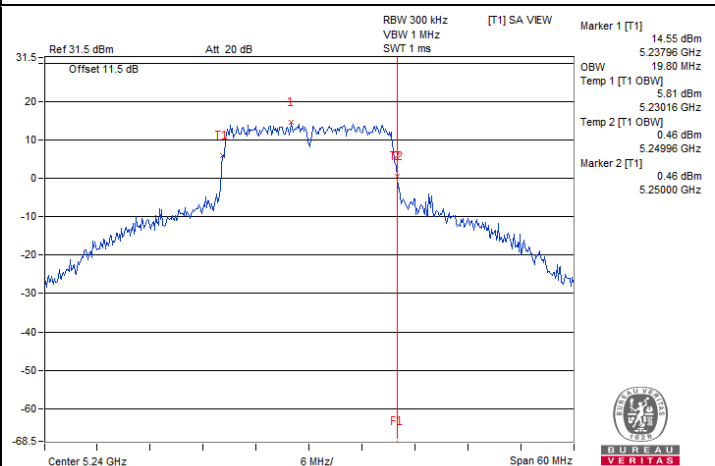
802.11a / Chain 0 : CH 48



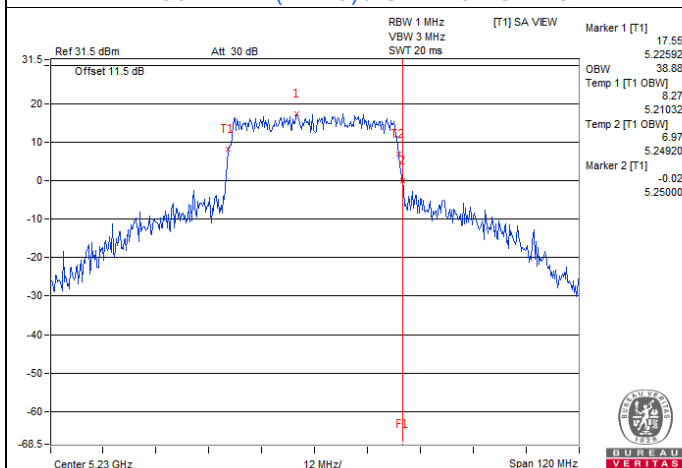
802.11a / Chain 1 : CH 48



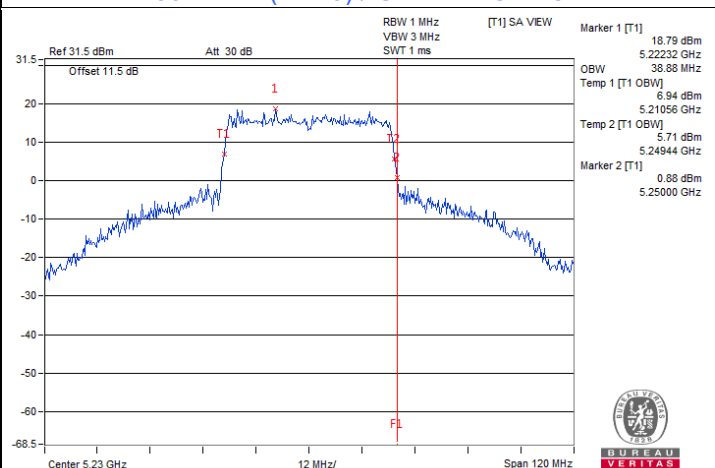
802.11ax (HE20) / Chain 0 : CH 48



802.11ax (HE20) / Chain 1 : CH 48

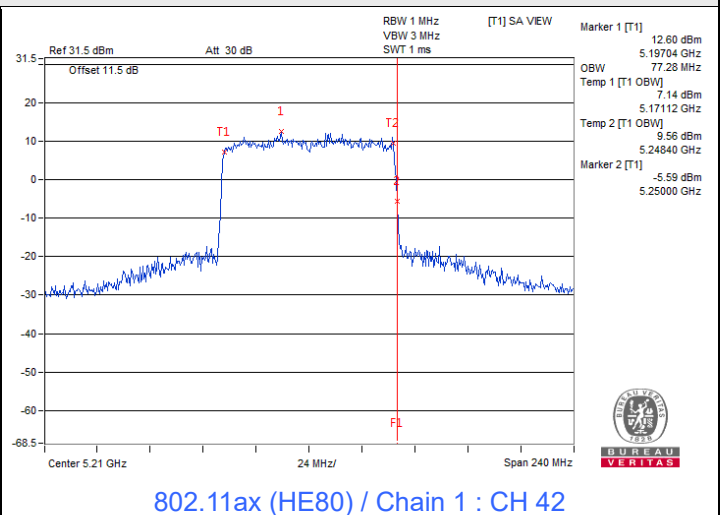
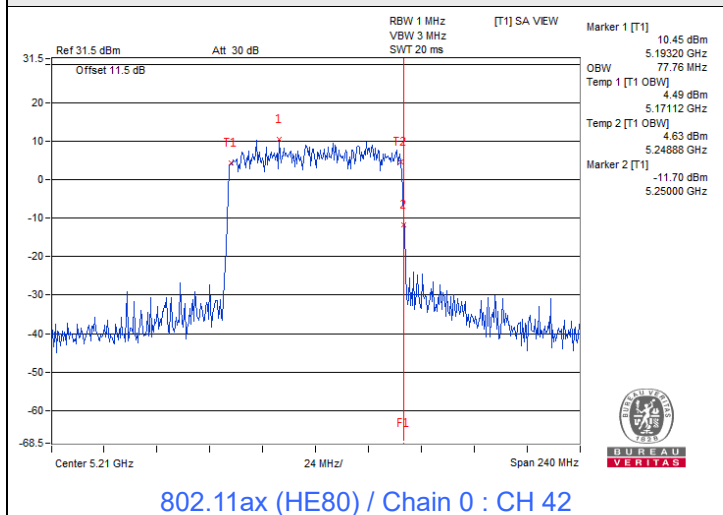


802.11ax (HE40) / Chain 0 : CH 46

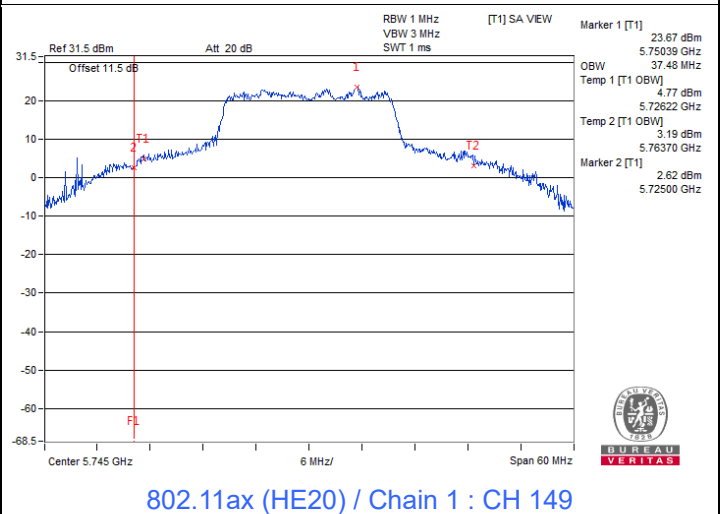
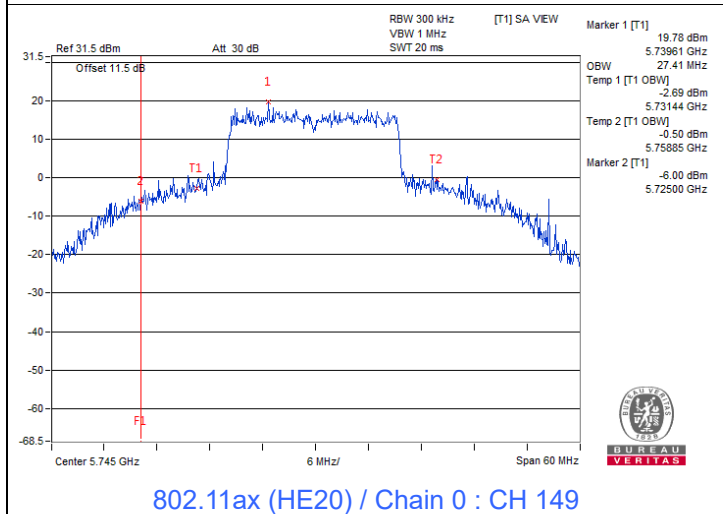
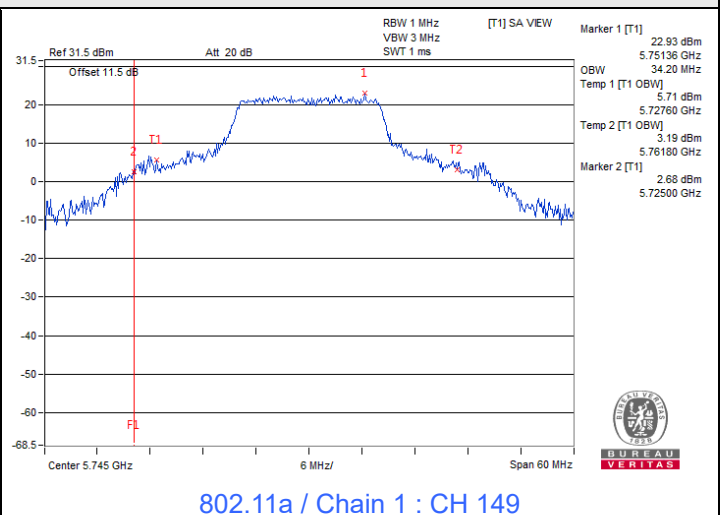
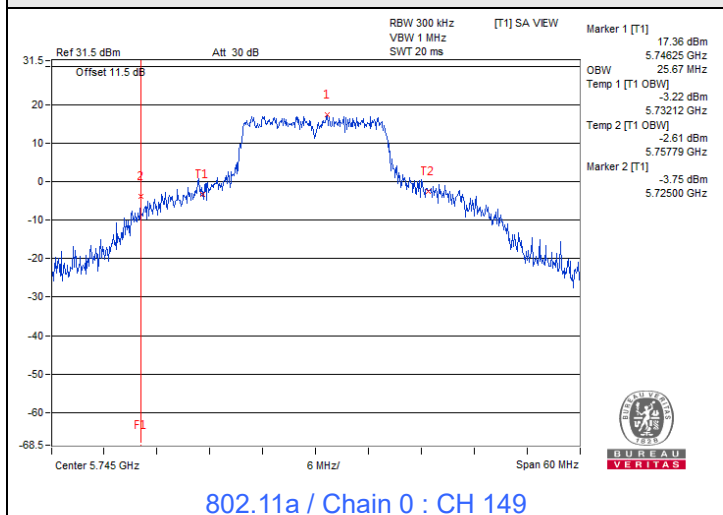


802.11ax (HE40) / Chain 1 : CH 46

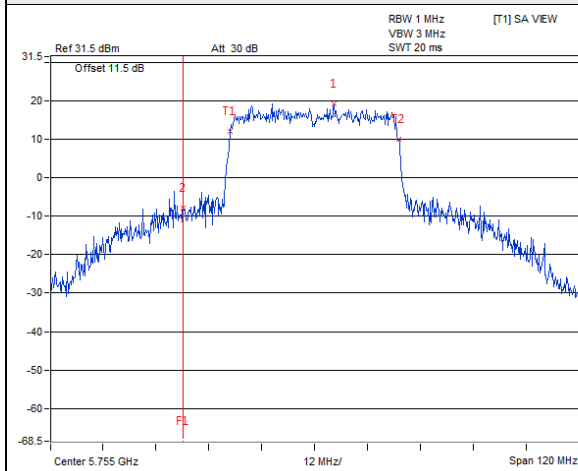
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)



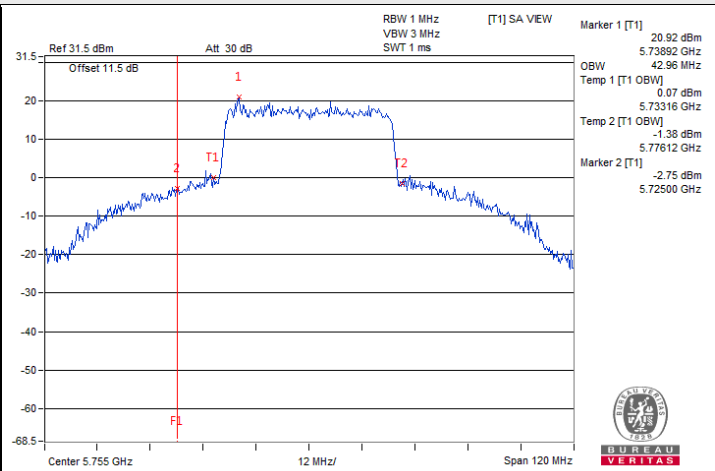
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)



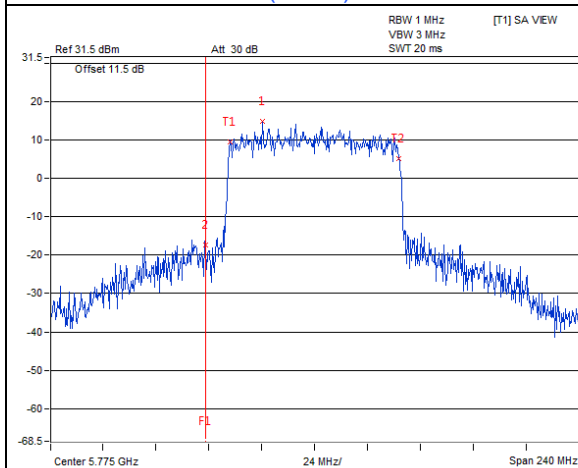
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C band)



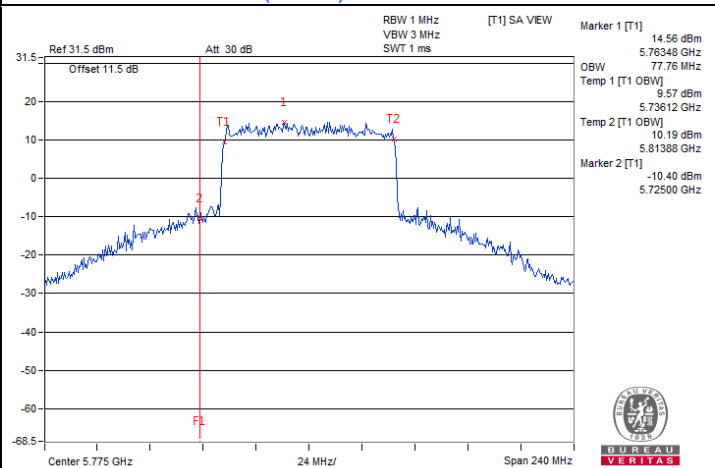
802.11ax (HE40) / Chain 0 : CH 151



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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802.11a

Frequency Stability Versus Temperature									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
50	120	5180.0072	Pass	5180.006	Pass	5180.0081	Pass	5180.0071	Pass
40	120	5179.9936	Pass	5179.9946	Pass	5179.9929	Pass	5179.9929	Pass
30	120	5179.9893	Pass	5179.9868	Pass	5179.9891	Pass	5179.9851	Pass
20	120	5179.9954	Pass	5179.9971	Pass	5179.9957	Pass	5179.9961	Pass
10	120	5180.0123	Pass	5180.0121	Pass	5180.0115	Pass	5180.0147	Pass
0	120	5180.02	Pass	5180.0221	Pass	5180.0194	Pass	5180.02	Pass
-10	120	5179.9882	Pass	5179.9885	Pass	5179.99	Pass	5179.9869	Pass
-20	120	5179.9885	Pass	5179.9895	Pass	5179.989	Pass	5179.9867	Pass
-30	120	5179.9974	Pass	5179.9942	Pass	5179.9961	Pass	5179.9955	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	138	5179.9914	Pass	5179.9872	Pass	5179.9872	Pass	5179.9922	Pass
	120	5179.9954	Pass	5179.9971	Pass	5179.9957	Pass	5179.9961	Pass
	102	5179.9883	Pass	5179.9876	Pass	5179.9883	Pass	5179.9862	Pass

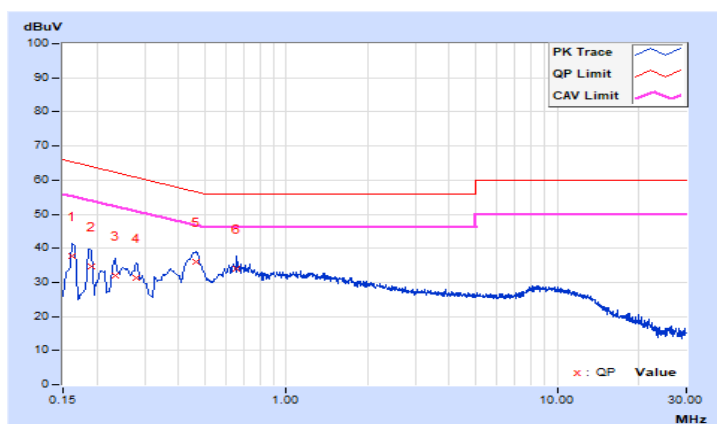
7.7 AC Power Conducted Emissions

RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu	Test Mode	A

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	0.16200	9.69	28.12	17.47	37.81	27.16	65.36	55.36	-27.55	-28.20
2	0.19000	9.71	25.12	14.92	34.83	24.63	64.04	54.04	-29.21	-29.41
3	0.23351	9.73	22.10	16.87	31.83	26.60	62.32	52.32	-30.49	-25.72
4	0.27800	9.75	21.42	17.99	31.17	27.74	60.88	50.88	-29.71	-23.14
5	0.46446	9.80	26.16	23.91	35.96	33.71	56.61	46.61	-20.65	-12.90
6	0.65800	9.82	24.28	19.14	34.10	28.96	56.00	46.00	-21.90	-17.04

Remarks:

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

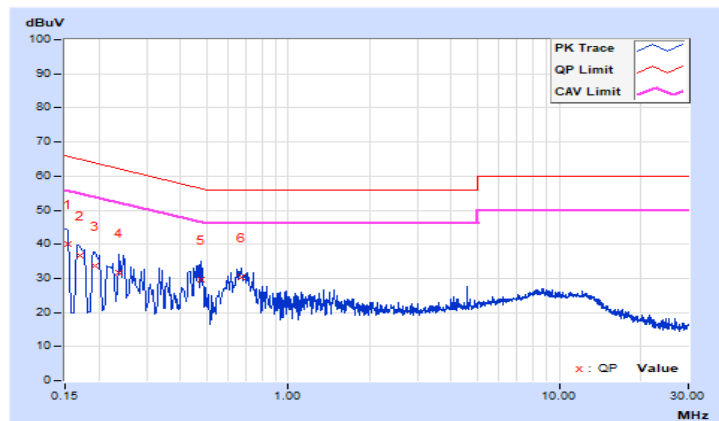


RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu	Test Mode	A

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15400	9.68	30.28	15.37	39.96	25.05	65.78	55.78	-25.82	-30.73
2	0.17000	9.70	26.94	12.61	36.64	22.31	64.96	54.96	-28.32	-32.65
3	0.19265	9.71	23.85	11.69	33.56	21.40	63.92	53.92	-30.36	-32.52
4	0.23800	9.74	21.93	12.41	31.67	22.15	62.17	52.17	-30.50	-30.02
5	0.47400	9.82	19.79	13.13	29.61	22.95	56.44	46.44	-26.83	-23.49
6	0.67400	9.83	20.46	14.46	30.29	24.29	56.00	46.00	-25.71	-21.71

Remarks:

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

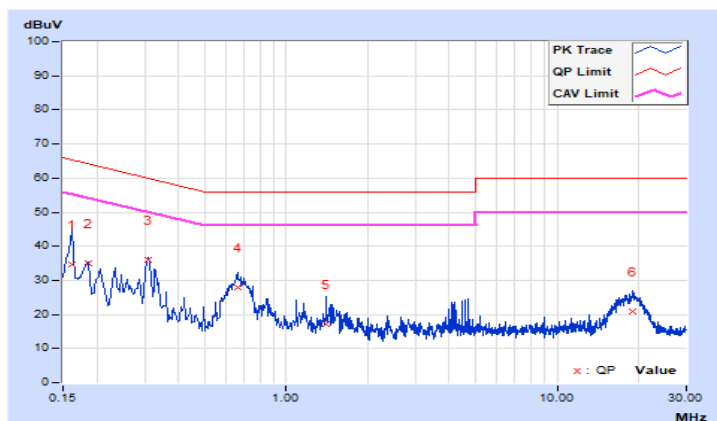


RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu	Test Mode	B

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	0.16200	9.69	25.00	15.83	34.69	25.52	65.36	55.36	-30.67	-29.84
2	0.18519	9.71	25.36	17.38	35.07	27.09	64.25	54.25	-29.18	-27.16
3	0.30956	9.76	26.38	23.41	36.14	33.17	59.98	49.98	-23.84	-16.81
4	0.66200	9.82	18.00	13.06	27.82	22.88	56.00	46.00	-28.18	-23.12
5	1.40200	9.86	7.35	1.96	17.21	11.82	56.00	46.00	-38.79	-34.18
6	19.01800	10.15	10.65	4.48	20.80	14.63	60.00	50.00	-39.20	-35.37

Remarks:

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

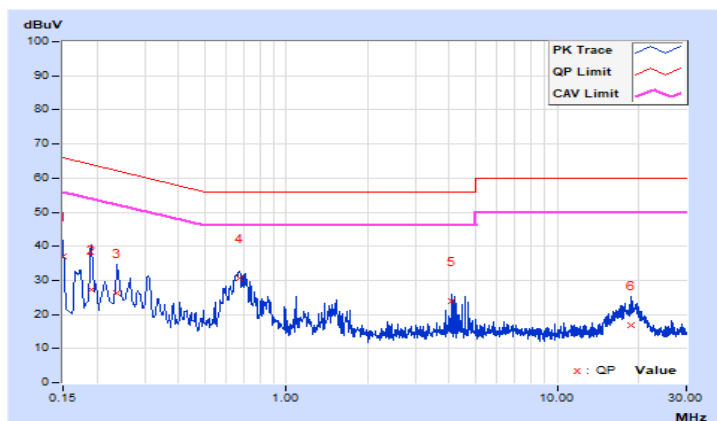


RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu	Test Mode	B

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	0.15000	9.68	27.19	10.47	36.87	20.15	66.00	56.00	-29.13	-35.85
2	0.19000	9.71	17.56	6.56	27.27	16.27	64.04	54.04	-36.77	-37.77
3	0.23800	9.74	16.52	10.27	26.26	20.01	62.17	52.17	-35.91	-32.16
4	0.66987	9.83	20.66	13.60	30.49	23.43	56.00	46.00	-25.51	-22.57
5	4.06200	9.97	14.02	1.38	23.99	11.35	56.00	46.00	-32.01	-34.65
6	18.83000	10.18	6.77	0.40	16.95	10.58	60.00	50.00	-43.05	-39.42

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



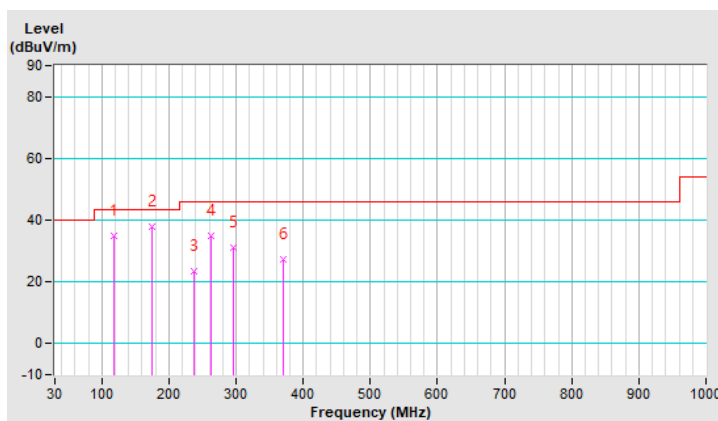
7.8 Unwanted Emissions below 1 GHz

RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 68% RH
Tested By	Luis Lee	Test Mode	A

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	117.30	34.8 QP	43.5	-8.7	1.01 H	167	45.9	-11.1
2	175.50	38.0 QP	43.5	-5.5	1.01 H	171	47.4	-9.4
3	237.58	23.4 QP	46.0	-22.6	1.50 H	157	33.2	-9.8
4	262.80	35.0 QP	46.0	-11.0	1.50 H	157	43.7	-8.7
5	295.78	31.3 QP	46.0	-14.7	1.01 H	165	39.0	-7.7
6	369.50	27.2 QP	46.0	-18.8	1.01 H	165	33.4	-6.2

Remarks:

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

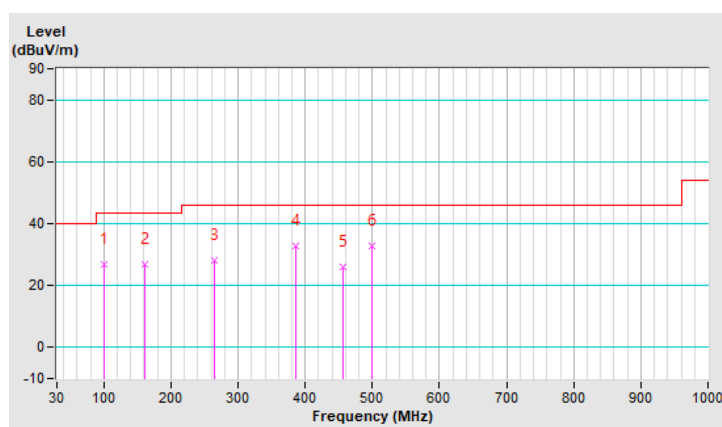


RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 68% RH
Tested By	Luis Lee	Test Mode	A

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	99.84	26.9 QP	43.5	-16.6	1.49 V	186	40.2	-13.3
2	161.92	26.8 QP	43.5	-16.7	1.00 V	273	35.3	-8.5
3	264.74	28.2 QP	46.0	-17.8	1.49 V	169	36.8	-8.6
4	385.02	32.7 QP	46.0	-13.3	1.49 V	169	38.7	-6.0
5	456.80	26.0 QP	46.0	-20.0	1.00 V	353	30.6	-4.6
6	499.48	32.9 QP	46.0	-13.1	1.00 V	158	37.1	-4.2

Remarks:

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

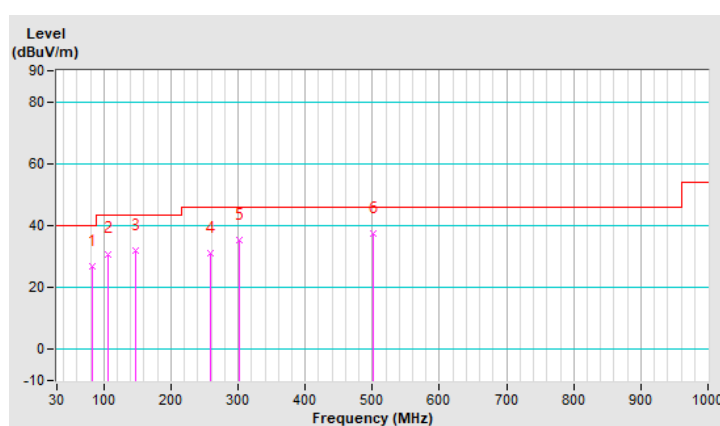


RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 68% RH
Tested By	Luis Lee	Test Mode	B

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	82.38	26.9 QP	40.0	-13.1	1.50 H	153	40.4	-13.5
2	105.66	30.9 QP	43.5	-12.6	1.01 H	16	43.2	-12.3
3	146.40	32.1 QP	43.5	-11.4	1.50 H	152	40.7	-8.6
4	258.92	31.1 QP	46.0	-14.9	1.50 H	152	40.0	-8.9
5	301.60	35.3 QP	46.0	-10.7	1.50 H	152	42.6	-7.3
6	501.42	37.4 QP	46.0	-8.6	1.01 H	346	41.6	-4.2

Remarks:

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

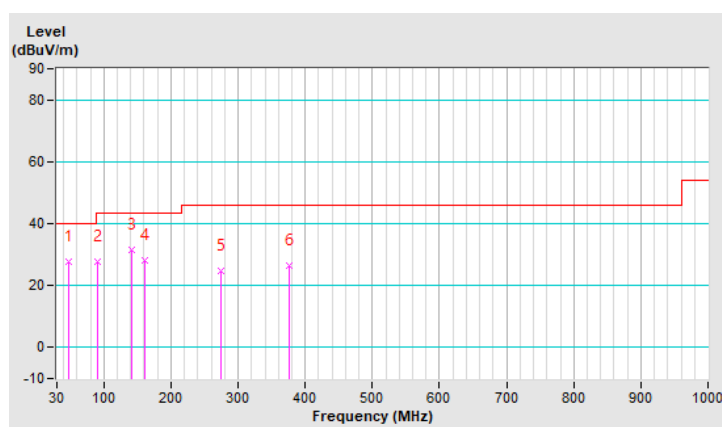


RF Mode	TX 802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	9 kHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	21°C, 68% RH
Tested By	Luis Lee	Test Mode	B

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	47.46	27.9 QP	40.0	-12.1	1.49 V	326	36.8	-8.9
2	90.14	27.9 QP	43.5	-15.6	1.00 V	133	42.2	-14.3
3	140.58	31.6 QP	43.5	-11.9	1.00 V	122	40.6	-9.0
4	161.92	28.2 QP	43.5	-15.3	1.00 V	6	36.7	-8.5
5	274.44	24.8 QP	46.0	-21.2	1.49 V	48	32.8	-8.0
6	375.32	26.3 QP	46.0	-19.7	1.00 V	315	32.5	-6.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The 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	TX 802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.6 PK	74.0	-10.4	2.28 H	358	51.0	12.6
2	5150.00	48.1 AV	54.0	-5.9	2.28 H	358	35.5	12.6
3	*5180.00	107.2 PK			2.28 H	358	64.5	42.7
4	*5180.00	98.1 AV			2.28 H	358	55.4	42.7
5	#10360.00	61.7 PK	68.2	-6.5	2.25 H	195	39.2	22.5
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	72.6 PK	74.0	-1.4	3.15 V	100	60.0	12.6
2	5150.00	53.7 AV	54.0	-0.3	3.15 V	100	41.1	12.6
3	*5180.00	117.2 PK			3.15 V	100	74.5	42.7
4	*5180.00	107.6 AV			3.15 V	100	64.9	42.7
5	#10360.00	61.9 PK	68.2	-6.3	1.85 V	214	39.4	22.5

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 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	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.6 PK	74.0	-13.4	3.18 H	40	48.0	12.6
2	5150.00	47.2 AV	54.0	-6.8	3.18 H	40	34.6	12.6
3	*5200.00	110.6 PK			3.18 H	40	68.1	42.5
4	*5200.00	100.9 AV			3.18 H	40	58.4	42.5
5	#10400.00	62.2 PK	68.2	-6.0	2.28 H	199	39.5	22.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	72.2 PK	74.0	-1.8	3.38 V	340	59.6	12.6
2	5150.00	53.7 AV	54.0	-0.3	3.38 V	340	41.1	12.6
3	*5200.00	121.0 PK			3.38 V	340	78.5	42.5
4	*5200.00	111.1 AV			3.38 V	340	68.6	42.5
5	#10400.00	62.5 PK	68.2	-5.7	1.85 V	240	39.8	22.7

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	112.4 PK			3.21 H	38	70.0	42.4
2	*5240.00	102.8 AV			3.21 H	38	60.4	42.4
3	5350.00	59.4 PK	74.0	-14.6	3.21 H	38	47.0	12.4
4	5350.00	46.4 AV	54.0	-7.6	3.21 H	38	34.0	12.4
5	#10480.00	62.1 PK	68.2	-6.1	2.22 H	192	39.5	22.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	121.1 PK			3.41 V	341	78.7	42.4
2	*5240.00	111.3 AV			3.41 V	341	68.9	42.4
3	5350.00	59.5 PK	74.0	-14.5	3.41 V	341	47.1	12.4
4	5350.00	46.8 AV	54.0	-7.2	3.41 V	341	34.4	12.4
5	#10480.00	62.4 PK	68.2	-5.8	1.96 V	241	39.8	22.6

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.6 PK	74.0	-14.4	2.10 H	354	47.0	12.6
2	5150.00	45.8 AV	54.0	-8.2	2.10 H	354	33.2	12.6
3	*5260.00	106.8 PK			2.10 H	354	64.4	42.4
4	*5260.00	98.2 AV			2.10 H	354	55.8	42.4
5	#10520.00	61.7 PK	68.2	-6.5	2.21 H	187	39.2	22.5
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	59.8 PK	74.0	-14.2	2.04 V	328	47.2	12.6
2	5150.00	46.2 AV	54.0	-7.8	2.04 V	328	33.6	12.6
3	*5260.00	116.2 PK			2.04 V	328	73.8	42.4
4	*5260.00	107.0 AV			2.04 V	328	64.6	42.4
5	#10520.00	62.0 PK	68.2	-6.2	1.96 V	235	39.5	22.5

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 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	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	106.9 PK			2.11 H	354	64.5	42.4
2	*5300.00	98.7 AV			2.11 H	354	56.3	42.4
3	10600.00	62.2 PK	74.0	-11.8	2.21 H	193	39.5	22.7
4	10600.00	49.2 AV	54.0	-4.8	2.21 H	193	26.5	22.7
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	*5300.00	115.8 PK			2.04 V	321	73.4	42.4
2	*5300.00	107.1 AV			2.04 V	321	64.7	42.4
3	10600.00	62.6 PK	74.0	-11.4	1.99 V	201	39.9	22.7
4	10600.00	49.5 AV	54.0	-4.5	1.99 V	201	26.8	22.7

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	TX 802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	107.2 PK			2.22 H	353	64.7	42.5
2	*5320.00	97.9 AV			2.22 H	353	55.4	42.5
3	5350.00	63.5 PK	74.0	-10.5	2.22 H	353	51.1	12.4
4	5350.00	47.9 AV	54.0	-6.1	2.22 H	353	35.5	12.4
5	10640.00	62.3 PK	74.0	-11.7	2.28 H	184	39.5	22.8
6	10640.00	49.2 AV	54.0	-4.8	2.28 H	184	26.4	22.8
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	*5320.00	116.7 PK			2.04 V	330	74.2	42.5
2	*5320.00	107.1 AV			2.04 V	330	64.6	42.5
3	5350.00	70.9 PK	74.0	-3.1	2.04 V	330	58.5	12.4
4	5350.00	50.7 AV	54.0	-3.3	2.04 V	330	38.3	12.4
5	10640.00	62.6 PK	74.0	-11.4	1.99 V	228	39.8	22.8
6	10640.00	49.5 AV	54.0	-4.5	1.99 V	228	26.7	22.8

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 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	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.2 PK	74.0	-12.8	2.45 H	339	48.5	12.7
2	5460.00	47.3 AV	54.0	-6.7	2.45 H	339	34.6	12.7
3	#5470.00	61.3 PK	68.2	-6.9	2.45 H	339	48.6	12.7
4	*5500.00	105.0 PK			2.45 H	339	61.8	43.2
5	*5500.00	96.1 AV			2.45 H	339	52.9	43.2
6	11000.00	62.1 PK	74.0	-11.9	2.25 H	184	39.2	22.9
7	11000.00	48.4 AV	54.0	-5.6	2.25 H	184	25.5	22.9
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	5460.00	62.5 PK	74.0	-11.5	1.93 V	116	49.8	12.7
2	5460.00	48.3 AV	54.0	-5.7	1.93 V	116	35.6	12.7
3	#5470.00	68.0 PK	68.2	-0.2	1.93 V	116	55.3	12.7
4	*5500.00	118.3 PK			1.93 V	116	75.1	43.2
5	*5500.00	106.2 AV			1.93 V	116	63.0	43.2
6	11000.00	62.4 PK	74.0	-11.6	1.88 V	225	39.5	22.9
7	11000.00	48.9 AV	54.0	-5.1	1.88 V	225	26.0	22.9

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 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	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	108.0 PK			2.38 H	339	64.9	43.1
2	*5580.00	99.0 AV			2.38 H	339	55.9	43.1
3	11160.00	62.6 PK	74.0	-11.4	2.08 H	194	39.5	23.1
4	11160.00	48.9 AV	54.0	-5.1	2.08 H	194	25.8	23.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	117.8 PK			2.00 V	111	74.7	43.1
2	*5580.00	108.2 AV			2.00 V	111	65.1	43.1
3	11160.00	62.9 PK	74.0	-11.1	1.92 V	221	39.8	23.1
4	11160.00	49.2 AV	54.0	-4.8	1.92 V	221	26.1	23.1

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	105.5 PK			2.43 H	339	62.4	43.1
2	*5700.00	96.2 AV			2.43 H	339	53.1	43.1
3	#5725.00	60.9 PK	68.2	-7.3	2.43 H	339	47.7	13.2
4	11400.00	63.5 PK	74.0	-10.5	2.09 H	189	39.5	24.0
5	11400.00	49.7 AV	54.0	-4.3	2.09 H	189	25.7	24.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	115.9 PK			2.02 V	112	72.8	43.1
2	*5700.00	106.1 AV			2.02 V	112	63.0	43.1
3	#5725.00	68.1 PK	68.2	-0.1	2.02 V	112	54.9	13.2
4	11400.00	63.7 PK	74.0	-10.3	1.85 V	229	39.7	24.0
5	11400.00	50.2 AV	54.0	-3.8	1.85 V	229	26.2	24.0

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 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	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	60.2 PK	68.2	-8.0	2.38 H	340	47.5	12.7
2	*5720.00	105.0 PK			2.38 H	340	61.6	43.4
3	*5720.00	96.4 AV			2.38 H	340	53.0	43.4
4	#5850.00	61.2 PK	68.2	-7.0	2.38 H	340	47.6	13.6
5	11440.00	63.5 PK	74.0	-10.5	2.15 H	191	39.5	24.0
6	11440.00	49.8 AV	54.0	-4.2	2.15 H	191	25.8	24.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	60.4 PK	68.2	-7.8	1.99 V	112	47.7	12.7
2	*5720.00	117.1 PK			1.99 V	112	73.7	43.4
3	*5720.00	107.6 AV			1.99 V	112	64.2	43.4
4	#5850.00	61.5 PK	68.2	-6.7	1.99 V	112	47.9	13.6
5	11440.00	63.7 PK	74.0	-10.3	1.86 V	226	39.7	24.0
6	11440.00	50.2 AV	54.0	-3.8	1.86 V	226	26.2	24.0

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 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	24°C, 68% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.00	60.5 PK	68.2	-7.7	2.11 H	341	47.8	12.7
2	*5745.00	111.9 PK			2.11 H	341	68.3	43.6
3	*5745.00	101.7 AV			2.11 H	341	58.1	43.6
4	#5975.20	61.7 PK	68.2	-6.5	2.11 H	341	47.9	13.8
5	11490.00	63.8 PK	74.0	-10.2	2.25 H	182	39.8	24.0
6	11490.00	50.6 AV	54.0	-3.4	2.25 H	182	26.6	24.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5643.20	67.9 PK	68.2	-0.3	1.60 V	56	55.2	12.7
2	*5745.00	123.6 PK			1.60 V	56	80.0	43.6
3	*5745.00	112.1 AV			1.60 V	56	68.5	43.6
4	#5958.40	61.8 PK	68.2	-6.4	1.60 V	56	48.0	13.8
5	11490.00	64.5 PK	74.0	-9.5	1.95 V	235	40.5	24.0
6	11490.00	51.5 AV	54.0	-2.5	1.95 V	235	27.5	24.0

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5602.00	59.2 PK	68.2	-9.0	2.09 H	341	46.8	12.4
2	*5785.00	112.2 PK			2.09 H	341	68.4	43.8
3	*5785.00	102.2 AV			2.09 H	341	58.4	43.8
4	#5971.60	61.4 PK	68.2	-6.8	2.09 H	341	47.6	13.8
5	11570.00	63.5 PK	74.0	-10.5	2.23 H	184	39.7	23.8
6	11570.00	50.4 AV	54.0	-3.6	2.23 H	184	26.6	23.8
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	#5633.60	63.2 PK	68.2	-5.0	1.86 V	119	50.5	12.7
2	*5785.00	124.1 PK			1.86 V	119	80.3	43.8
3	*5785.00	113.4 AV			1.86 V	119	69.6	43.8
4	#5992.00	61.5 PK	68.2	-6.7	1.86 V	119	47.8	13.7
5	11570.00	64.4 PK	74.0	-9.6	1.95 V	238	40.6	23.8
6	11570.00	51.5 AV	54.0	-2.5	1.95 V	238	27.7	23.8

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 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	24°C, 68% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5638.40	61.1 PK	68.2	-7.1	2.14 H	341	48.4	12.7
2	*5825.00	113.0 PK			2.14 H	341	69.0	44.0
3	*5825.00	102.4 AV			2.14 H	341	58.4	44.0
4	#5974.00	63.0 PK	68.2	-5.2	2.14 H	341	49.2	13.8
5	11650.00	62.9 PK	74.0	-11.1	2.21 H	187	39.6	23.3
6	11650.00	49.8 AV	54.0	-4.2	2.21 H	187	26.5	23.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5640.00	61.8 PK	68.2	-6.4	1.81 V	114	49.1	12.7
2	*5825.00	124.0 PK			1.81 V	114	80.0	44.0
3	*5825.00	113.1 AV			1.81 V	114	69.1	44.0
4	#5932.40	65.7 PK	68.2	-2.5	1.81 V	114	51.9	13.8
5	11650.00	63.8 PK	74.0	-10.2	1.96 V	242	40.5	23.3
6	11650.00	50.9 AV	54.0	-3.1	1.96 V	242	27.6	23.3

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	67.7 PK	74.0	-6.3	3.27 H	38	55.1	12.6
2	5150.00	50.8 AV	54.0	-3.2	3.27 H	38	38.2	12.6
3	*5180.00	112.4 PK			3.27 H	38	69.7	42.7
4	*5180.00	100.1 AV			3.27 H	38	57.4	42.7
5	#10360.00	61.7 PK	68.2	-6.5	2.21 H	189	39.2	22.5
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	5148.60	71.8 PK	74.0	-2.2	2.08 V	343	59.2	12.6
2	5148.60	53.8 AV	54.0	-0.2	2.08 V	343	41.2	12.6
3	*5180.00	118.7 PK			2.08 V	343	76.0	42.7
4	*5180.00	106.4 AV			2.08 V	343	63.7	42.7
5	#10360.00	62.1 PK	68.2	-6.1	1.88 V	240	39.6	22.5

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	67.6 PK	74.0	-6.4	3.21 H	39	55.0	12.6
2	5150.00	50.6 AV	54.0	-3.4	3.21 H	39	38.0	12.6
3	*5200.00	114.1 PK			3.21 H	39	71.6	42.5
4	*5200.00	102.0 AV			3.21 H	39	59.5	42.5
5	#10400.00	61.8 PK	68.2	-6.4	2.21 H	197	39.1	22.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	72.0 PK	74.0	-2.0	1.89 V	24	59.4	12.6
2	5150.00	53.7 AV	54.0	-0.3	1.89 V	24	41.1	12.6
3	*5200.00	121.6 PK			1.89 V	24	79.1	42.5
4	*5200.00	109.4 AV			1.89 V	24	66.9	42.5
5	#10400.00	62.0 PK	68.2	-6.2	1.97 V	244	39.3	22.7

Remarks:

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

RF Mode	TX 802.11ax (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	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	113.9 PK			3.20 H	40	71.5	42.4
2	*5240.00	101.9 AV			3.20 H	40	59.5	42.4
3	5350.00	59.3 PK	74.0	-14.7	3.20 H	40	46.9	12.4
4	5350.00	46.8 AV	54.0	-7.2	3.20 H	40	34.4	12.4
5	#10480.00	62.0 PK	68.2	-6.2	2.29 H	187	39.4	22.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	121.9 PK			1.90 V	53	79.5	42.4
2	*5240.00	109.4 AV			1.90 V	53	67.0	42.4
3	5350.00	60.6 PK	74.0	-13.4	1.90 V	53	48.2	12.4
4	5350.00	47.2 AV	54.0	-6.8	1.90 V	53	34.8	12.4
5	#10480.00	62.2 PK	68.2	-6.0	1.87 V	231	39.6	22.6

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.6 PK	74.0	-14.4	2.12 H	353	47.0	12.6
2	5150.00	46.1 AV	54.0	-7.9	2.12 H	353	33.5	12.6
3	*5260.00	109.5 PK			2.12 H	353	67.1	42.4
4	*5260.00	97.3 AV			2.12 H	353	54.9	42.4
5	#10520.00	62.0 PK	68.2	-6.2	2.25 H	186	39.5	22.5
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	59.7 PK	74.0	-14.3	2.06 V	327	47.1	12.6
2	5150.00	46.4 AV	54.0	-7.6	2.06 V	327	33.8	12.6
3	*5260.00	118.4 PK			2.06 V	327	76.0	42.4
4	*5260.00	106.2 AV			2.06 V	327	63.8	42.4
5	#10520.00	62.2 PK	68.2	-6.0	1.99 V	231	39.7	22.5

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	109.5 PK			2.11 H	355	67.1	42.4
2	*5300.00	97.4 AV			2.11 H	355	55.0	42.4
3	10600.00	62.2 PK	74.0	-11.8	2.25 H	189	39.5	22.7
4	10600.00	49.2 AV	54.0	-4.8	2.25 H	189	26.5	22.7
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	*5300.00	118.4 PK			2.08 V	331	76.0	42.4
2	*5300.00	106.0 AV			2.08 V	331	63.6	42.4
3	10600.00	62.4 PK	74.0	-11.6	1.93 V	245	39.7	22.7
4	10600.00	49.5 AV	54.0	-4.5	1.93 V	245	26.8	22.7

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	TX 802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	109.4 PK			2.22 H	353	66.9	42.5
2	*5320.00	97.0 AV			2.22 H	353	54.5	42.5
3	5350.00	62.0 PK	74.0	-12.0	2.22 H	353	49.6	12.4
4	5350.00	48.2 AV	54.0	-5.8	2.22 H	353	35.8	12.4
5	10640.00	62.4 PK	74.0	-11.6	2.18 H	189	39.6	22.8
6	10640.00	49.3 AV	54.0	-4.7	2.18 H	189	26.5	22.8
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	*5320.00	118.2 PK			2.10 V	334	75.7	42.5
2	*5320.00	106.2 AV			2.10 V	334	63.7	42.5
3	5350.00	70.2 PK	74.0	-3.8	2.10 V	334	57.8	12.4
4	5350.00	52.6 AV	54.0	-1.4	2.10 V	334	40.2	12.4
5	10640.00	62.6 PK	74.0	-11.4	1.86 V	241	39.8	22.8
6	10640.00	49.7 AV	54.0	-4.3	1.86 V	241	26.9	22.8

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.5 PK	74.0	-13.5	2.44 H	338	47.8	12.7
2	5460.00	47.1 AV	54.0	-6.9	2.44 H	338	34.4	12.7
3	#5470.00	60.7 PK	68.2	-7.5	2.44 H	338	48.0	12.7
4	*5500.00	109.5 PK			2.44 H	338	66.3	43.2
5	*5500.00	97.1 AV			2.44 H	338	53.9	43.2
6	11000.00	62.4 PK	74.0	-11.6	2.16 H	194	39.5	22.9
7	11000.00	48.7 AV	54.0	-5.3	2.16 H	194	25.8	22.9
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	5460.00	62.1 PK	74.0	-11.9	2.06 V	112	49.4	12.7
2	5460.00	48.3 AV	54.0	-5.7	2.06 V	112	35.6	12.7
3	#5470.00	67.9 PK	68.2	-0.3	2.06 V	112	55.2	12.7
4	*5500.00	118.5 PK			2.06 V	112	75.3	43.2
5	*5500.00	106.7 AV			2.06 V	112	63.5	43.2
6	11000.00	62.5 PK	74.0	-11.5	1.82 V	229	39.6	22.9
7	11000.00	49.0 AV	54.0	-5.0	1.82 V	229	26.1	22.9

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	109.7 PK			2.38 H	340	66.6	43.1
2	*5580.00	97.5 AV			2.38 H	340	54.4	43.1
3	11160.00	62.6 PK	74.0	-11.4	2.11 H	187	39.5	23.1
4	11160.00	48.8 AV	54.0	-5.2	2.11 H	187	25.7	23.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	119.9 PK			2.06 V	111	76.8	43.1
2	*5580.00	107.7 AV			2.06 V	111	64.6	43.1
3	11160.00	62.9 PK	74.0	-11.1	1.85 V	225	39.8	23.1
4	11160.00	49.4 AV	54.0	-4.6	1.85 V	225	26.3	23.1

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	106.4 PK			2.42 H	341	63.3	43.1
2	*5700.00	93.9 AV			2.42 H	341	50.8	43.1
3	#5725.00	61.5 PK	68.2	-6.7	2.42 H	341	48.3	13.2
4	11400.00	63.6 PK	74.0	-10.4	2.15 H	192	39.6	24.0
5	11400.00	49.6 AV	54.0	-4.4	2.15 H	192	25.6	24.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	116.3 PK			2.02 V	112	73.2	43.1
2	*5700.00	104.4 AV			2.02 V	112	61.3	43.1
3	#5725.00	68.0 PK	68.2	-0.2	2.02 V	112	54.8	13.2
4	11400.00	63.7 PK	74.0	-10.3	1.86 V	228	39.7	24.0
5	11400.00	50.1 AV	54.0	-3.9	1.86 V	228	26.1	24.0

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	60.2 PK	68.2	-8.0	2.23 H	340	47.5	12.7
2	*5720.00	108.1 PK			2.23 H	340	64.7	43.4
3	*5720.00	95.6 AV			2.23 H	340	52.2	43.4
4	#5850.00	60.6 PK	68.2	-7.6	2.23 H	340	47.0	13.6
5	11440.00	63.6 PK	74.0	-10.4	2.20 H	196	39.6	24.0
6	11440.00	50.0 AV	54.0	-4.0	2.20 H	196	26.0	24.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	60.7 PK	68.2	-7.5	2.06 V	110	48.0	12.7
2	*5720.00	118.9 PK			2.06 V	110	75.5	43.4
3	*5720.00	106.9 AV			2.06 V	110	63.5	43.4
4	#5850.00	60.8 PK	68.2	-7.4	2.06 V	110	47.2	13.6
5	11440.00	63.8 PK	74.0	-10.2	1.85 V	235	39.8	24.0
6	11440.00	50.2 AV	54.0	-3.8	1.85 V	235	26.2	24.0

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	24°C, 68% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5610.40	60.5 PK	68.2	-7.7	2.16 H	340	47.9	12.6
2	*5745.00	112.0 PK			2.16 H	340	68.4	43.6
3	*5745.00	100.5 AV			2.16 H	340	56.9	43.6
4	#5925.60	61.3 PK	68.2	-6.9	2.16 H	340	47.5	13.8
5	11490.00	63.7 PK	74.0	-10.3	2.24 H	197	39.7	24.0
6	11490.00	50.4 AV	54.0	-3.6	2.24 H	197	26.4	24.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.40	67.8 PK	68.2	-0.4	1.87 V	118	55.1	12.7
2	*5745.00	123.9 PK			1.87 V	118	80.3	43.6
3	*5745.00	112.1 AV			1.87 V	118	68.5	43.6
4	#5961.20	62.3 PK	68.2	-5.9	1.87 V	118	48.5	13.8
5	11490.00	64.6 PK	74.0	-9.4	1.95 V	239	40.6	24.0
6	11490.00	51.7 AV	54.0	-2.3	1.95 V	239	27.7	24.0

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	24°C, 68% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5614.80	60.1 PK	68.2	-8.1	2.08 H	340	47.5	12.6
2	*5785.00	113.7 PK			2.08 H	340	69.9	43.8
3	*5785.00	101.7 AV			2.08 H	340	57.9	43.8
4	#5956.40	61.5 PK	68.2	-6.7	2.08 H	340	47.7	13.8
5	11570.00	63.3 PK	74.0	-10.7	2.21 H	197	39.5	23.8
6	11570.00	50.2 AV	54.0	-3.8	2.21 H	197	26.4	23.8
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	#5646.40	66.6 PK	68.2	-1.6	1.89 V	114	53.9	12.7
2	*5785.00	124.6 PK			1.89 V	114	80.8	43.8
3	*5785.00	113.0 AV			1.89 V	114	69.2	43.8
4	#5942.00	62.8 PK	68.2	-5.4	1.89 V	114	49.0	13.8
5	11570.00	64.4 PK	74.0	-9.6	1.95 V	245	40.6	23.8
6	11570.00	51.3 AV	54.0	-2.7	1.95 V	245	27.5	23.8

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	24°C, 68% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	60.9 PK	68.2	-7.3	2.14 H	343	48.2	12.7
2	*5825.00	113.2 PK			2.14 H	343	69.2	44.0
3	*5825.00	101.6 AV			2.14 H	343	57.6	44.0
4	#5984.80	61.1 PK	68.2	-7.1	2.14 H	343	47.4	13.7
5	11650.00	62.9 PK	74.0	-11.1	2.13 H	192	39.6	23.3
6	11650.00	49.9 AV	54.0	-4.1	2.13 H	192	26.6	23.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5649.20	63.7 PK	68.2	-4.5	1.84 V	116	51.0	12.7
2	*5825.00	124.1 PK			1.84 V	116	80.1	44.0
3	*5825.00	112.1 AV			1.84 V	116	68.1	44.0
4	#5939.60	64.9 PK	68.2	-3.3	1.84 V	116	51.1	13.8
5	11650.00	64.0 PK	74.0	-10.0	1.95 V	244	40.7	23.3
6	11650.00	51.0 AV	54.0	-3.0	1.95 V	244	27.7	23.3

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 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	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	67.6 PK	74.0	-6.4	3.25 H	40	55.0	12.6
2	5150.00	49.2 AV	54.0	-4.8	3.25 H	40	36.6	12.6
3	*5190.00	107.0 PK			3.25 H	40	64.4	42.6
4	*5190.00	94.5 AV			3.25 H	40	51.9	42.6
5	#10380.00	61.7 PK	68.2	-6.5	2.29 H	186	39.2	22.5
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	5145.80	73.7 PK	74.0	-0.3	1.95 V	53	61.1	12.6
2	5145.80	53.5 AV	54.0	-0.5	1.95 V	53	40.9	12.6
3	*5190.00	114.5 PK			1.95 V	53	71.9	42.6
4	*5190.00	101.7 AV			1.95 V	53	59.1	42.6
5	#10380.00	62.1 PK	68.2	-6.1	1.90 V	227	39.6	22.5

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.9 PK	74.0	-8.1	3.28 H	37	53.3	12.6
2	5150.00	51.0 AV	54.0	-3.0	3.28 H	37	38.4	12.6
3	*5230.00	110.9 PK			3.28 H	37	68.5	42.4
4	*5230.00	98.5 AV			3.28 H	37	56.1	42.4
5	5350.00	60.7 PK	74.0	-13.3	3.28 H	37	48.3	12.4
6	5350.00	47.2 AV	54.0	-6.8	3.28 H	37	34.8	12.4
7	#10460.00	61.8 PK	68.2	-6.4	2.21 H	185	39.2	22.6
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	5148.50	70.5 PK	74.0	-3.5	1.94 V	52	57.9	12.6
2	5148.50	53.8 AV	54.0	-0.2	1.94 V	52	41.2	12.6
3	*5230.00	118.5 PK			1.94 V	52	76.1	42.4
4	*5230.00	106.1 AV			1.94 V	52	63.7	42.4
5	5350.00	61.1 PK	74.0	-12.9	1.94 V	52	48.7	12.4
6	5350.00	47.6 AV	54.0	-6.4	1.94 V	52	35.2	12.4
7	#10460.00	62.1 PK	68.2	-6.1	1.87 V	234	39.5	22.6

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.1 PK	74.0	-13.9	2.36 H	355	47.5	12.6
2	5150.00	46.5 AV	54.0	-7.5	2.36 H	355	33.9	12.6
3	*5270.00	107.0 PK			2.36 H	355	64.6	42.4
4	*5270.00	93.7 AV			2.36 H	355	51.3	42.4
5	#10540.00	61.6 PK	68.2	-6.6	2.25 H	192	39.0	22.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.3 PK	74.0	-13.7	2.14 V	331	47.7	12.6
2	5150.00	46.7 AV	54.0	-7.3	2.14 V	331	34.1	12.6
3	*5270.00	114.9 PK			2.14 V	331	72.5	42.4
4	*5270.00	102.6 AV			2.14 V	331	60.2	42.4
5	#10540.00	62.1 PK	68.2	-6.1	1.87 V	248	39.5	22.6

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	103.6 PK			2.36 H	322	61.1	42.5
2	*5310.00	91.9 AV			2.36 H	322	49.4	42.5
3	5350.00	62.4 PK	74.0	-11.6	2.36 H	322	50.0	12.4
4	5350.00	48.4 AV	54.0	-5.6	2.36 H	322	36.0	12.4
5	10620.00	62.2 PK	74.0	-11.8	2.23 H	187	39.5	22.7
6	10620.00	49.2 AV	54.0	-4.8	2.23 H	187	26.5	22.7
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	114.8 PK			2.09 V	331	72.3	42.5
2	*5310.00	101.9 AV			2.09 V	331	59.4	42.5
3	5350.00	72.9 PK	74.0	-1.1	2.09 V	331	60.5	12.4
4	5350.00	53.9 AV	54.0	-0.1	2.09 V	331	41.5	12.4
5	10620.00	62.5 PK	74.0	-11.5	1.99 V	230	39.8	22.7
6	10620.00	49.6 AV	54.0	-4.4	1.99 V	230	26.9	22.7

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	TX 802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.5 PK	74.0	-13.5	2.39 H	338	47.8	12.7
2	5460.00	47.2 AV	54.0	-6.8	2.39 H	338	34.5	12.7
3	#5470.00	61.2 PK	68.2	-7.0	2.39 H	338	48.5	12.7
4	*5510.00	103.8 PK			2.39 H	338	60.6	43.2
5	*5510.00	92.4 AV			2.39 H	338	49.2	43.2
6	11020.00	62.0 PK	74.0	-12.0	2.16 H	189	39.2	22.8
7	11020.00	48.3 AV	54.0	-5.7	2.16 H	189	25.5	22.8
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	62.9 PK	74.0	-11.1	2.06 V	117	50.2	12.7
2	5460.00	49.4 AV	54.0	-4.6	2.06 V	117	36.7	12.7
3	#5470.00	68.0 PK	68.2	-0.2	2.06 V	112	55.3	12.7
4	*5510.00	114.4 PK			2.06 V	112	71.2	43.2
5	*5510.00	102.0 AV			2.06 V	112	58.8	43.2
6	11020.00	62.3 PK	74.0	-11.7	1.92 V	231	39.5	22.8
7	11020.00	48.6 AV	54.0	-5.4	1.92 V	231	25.8	22.8

Remarks:

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

RF Mode	TX 802.11ax (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	24°C, 68% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	106.9 PK			2.52 H	338	63.7	43.2
2	*5550.00	94.9 AV			2.52 H	338	51.7	43.2
3	11100.00	62.0 PK	74.0	-12.0	2.15 H	187	39.1	22.9
4	11100.00	48.4 AV	54.0	-5.6	2.15 H	187	25.5	22.9
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	117.3 PK			2.04 V	114	74.1	43.2
2	*5550.00	104.6 AV			2.04 V	114	61.4	43.2
3	11100.00	62.4 PK	74.0	-11.6	1.82 V	229	39.5	22.9
4	11100.00	48.8 AV	54.0	-5.2	1.82 V	229	25.9	22.9

Remarks:

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

RF Mode	TX 802.11ax (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	24°C, 68% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	104.4 PK			2.53 H	340	61.3	43.1
2	*5670.00	92.8 AV			2.53 H	340	49.7	43.1
3	#5725.00	61.4 PK	68.2	-6.8	2.53 H	340	48.2	13.2
4	11340.00	62.9 PK	74.0	-11.1	2.17 H	191	39.2	23.7
5	11340.00	49.2 AV	54.0	-4.8	2.17 H	191	25.5	23.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	116.1 PK			2.07 V	113	73.0	43.1
2	*5670.00	103.5 AV			2.07 V	113	60.4	43.1
3	#5725.00	67.5 PK	68.2	-0.7	1.95 V	116	54.3	13.2
4	11340.00	63.3 PK	74.0	-10.7	1.95 V	229	39.6	23.7
5	11340.00	49.6 AV	54.0	-4.4	1.95 V	229	25.9	23.7

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 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	24°C, 68% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	60.3 PK	68.2	-7.9	2.22 H	340	47.6	12.7
2	*5710.00	104.7 PK			2.22 H	340	61.5	43.2
3	*5710.00	92.4 AV			2.22 H	340	49.2	43.2
4	#5850.00	60.6 PK	68.2	-7.6	2.22 H	340	47.0	13.6
5	11420.00	63.6 PK	74.0	-10.4	2.16 H	192	39.5	24.1
6	11420.00	49.8 AV	54.0	-4.2	2.16 H	192	25.7	24.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	60.8 PK	68.2	-7.4	2.06 V	111	48.1	12.7
2	*5710.00	115.6 PK			2.06 V	111	72.4	43.2
3	*5710.00	103.6 AV			2.06 V	111	60.4	43.2
4	#5850.00	60.9 PK	68.2	-7.3	1.00 V	111	47.3	13.6
5	11420.00	63.9 PK	74.0	-10.1	1.99 V	225	39.8	24.1
6	11420.00	50.1 AV	54.0	-3.9	1.99 V	225	26.0	24.1

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5628.00	60.0 PK	68.2	-8.2	2.16 H	342	47.3	12.7
2	*5755.00	108.6 PK			2.16 H	342	65.0	43.6
3	*5755.00	96.2 AV			2.16 H	342	52.6	43.6
4	#5932.40	61.8 PK	68.2	-6.4	2.16 H	342	48.0	13.8
5	11510.00	63.1 PK	74.0	-10.9	2.16 H	196	39.2	23.9
6	11510.00	50.0 AV	54.0	-4.0	2.16 H	196	26.1	23.9
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	#5640.40	67.4 PK	68.2	-0.8	2.03 V	110	54.7	12.7
2	*5755.00	120.1 PK			2.03 V	110	76.5	43.6
3	*5755.00	107.7 AV			2.03 V	110	64.1	43.6
4	#5994.40	62.4 PK	68.2	-5.8	2.03 V	110	48.7	13.7
5	11510.00	64.1 PK	74.0	-9.9	1.92 V	245	40.2	23.9
6	11510.00	51.1 AV	54.0	-2.9	1.92 V	245	27.2	23.9

Remarks:

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

RF Mode	TX 802.11ax (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	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5640.40	60.0 PK	68.2	-8.2	2.19 H	341	47.3	12.7
2	*5795.00	110.7 PK			2.19 H	341	66.8	43.9
3	*5795.00	97.5 AV			2.19 H	341	53.6	43.9
4	#5932.80	60.9 PK	68.2	-7.3	2.19 H	341	47.1	13.8
5	11590.00	63.1 PK	74.0	-10.9	2.17 H	198	39.3	23.8
6	11590.00	49.8 AV	54.0	-4.2	2.17 H	198	26.0	23.8
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	#5648.00	67.3 PK	68.2	-0.9	2.04 V	108	54.6	12.7
2	*5795.00	121.1 PK			2.04 V	108	77.2	43.9
3	*5795.00	108.5 AV			2.04 V	108	64.6	43.9
4	#5932.00	65.7 PK	68.2	-2.5	2.04 V	108	51.9	13.8
5	11590.00	64.1 PK	74.0	-9.9	1.95 V	244	40.3	23.8
6	11590.00	50.9 AV	54.0	-3.1	1.95 V	244	27.1	23.8

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 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	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	67.4 PK	74.0	-6.6	3.24 H	38	54.8	12.6
2	5150.00	50.6 AV	54.0	-3.4	3.24 H	38	38.0	12.6
3	*5210.00	104.9 PK			3.24 H	38	62.4	42.5
4	*5210.00	92.1 AV			3.24 H	38	49.6	42.5
5	5350.00	60.7 PK	74.0	-13.3	3.24 H	38	48.3	12.4
6	5350.00	47.2 AV	54.0	-6.8	3.24 H	38	34.8	12.4
7	#10420.00	61.8 PK	68.2	-6.4	2.27 H	198	39.2	22.6
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	5149.30	71.1 PK	74.0	-2.9	1.92 V	52	58.5	12.6
2	5149.30	53.8 AV	54.0	-0.2	1.92 V	52	41.2	12.6
3	*5210.00	111.7 PK			1.92 V	52	69.2	42.5
4	*5210.00	98.8 AV			1.92 V	52	56.3	42.5
5	5350.00	61.2 PK	74.0	-12.8	1.92 V	52	48.8	12.4
6	5350.00	47.8 AV	54.0	-6.2	1.92 V	52	35.4	12.4
7	#10420.00	62.2 PK	68.2	-6.0	1.82 V	248	39.6	22.6

Remarks:

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

RF Mode	TX 802.11ax (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	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	100.0 PK			2.37 H	322	57.6	42.4
2	*5290.00	88.0 AV			2.37 H	322	45.6	42.4
3	5350.00	61.4 PK	74.0	-12.6	2.37 H	322	49.0	12.4
4	5350.00	48.1 AV	54.0	-5.9	2.37 H	322	35.7	12.4
5	#10580.00	62.3 PK	68.2	-5.9	2.28 H	184	39.5	22.8
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	*5290.00	110.9 PK			2.10 V	332	68.5	42.4
2	*5290.00	98.5 AV			2.10 V	332	56.1	42.4
3	5350.00	70.5 PK	74.0	-3.5	2.10 V	332	58.1	12.4
4	5350.00	53.7 AV	54.0	-0.3	2.10 V	332	41.3	12.4
5	#10580.00	62.5 PK	68.2	-5.7	1.92 V	233	39.7	22.8

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.0 PK	74.0	-13.0	2.18 H	340	48.3	12.7
2	5460.00	47.7 AV	54.0	-6.3	2.18 H	340	35.0	12.7
3	#5470.00	62.1 PK	68.2	-6.1	2.18 H	340	49.4	12.7
4	*5530.00	102.9 PK			2.18 H	340	59.7	43.2
5	*5530.00	90.3 AV			2.18 H	340	47.1	43.2
6	#5725.00	60.4 PK	68.2	-7.8	2.18 H	340	47.2	13.2
7	11060.00	62.0 PK	74.0	-12.0	2.15 H	185	39.2	22.8
8	11060.00	48.3 AV	54.0	-5.7	2.15 H	185	25.5	22.8
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	65.9 PK	74.0	-8.1	2.14 V	110	53.2	12.7
2	5460.00	51.2 AV	54.0	-2.8	2.14 V	110	38.5	12.7
3	#5470.00	67.8 PK	68.2	-0.4	2.14 V	110	55.1	12.7
4	*5530.00	111.8 PK			2.14 V	110	68.6	43.2
5	*5530.00	99.6 AV			2.14 V	110	56.4	43.2
6	#5725.00	61.7 PK	68.2	-6.5	2.14 V	110	48.5	13.2
7	11060.00	62.3 PK	74.0	-11.7	1.89 V	235	39.5	22.8
8	11060.00	48.5 AV	54.0	-5.5	1.89 V	235	25.7	22.8

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 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	24°C, 68% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.7 PK	74.0	-13.3	2.18 H	339	48.0	12.7
2	5460.00	47.2 AV	54.0	-6.8	2.18 H	339	34.5	12.7
3	#5470.00	61.1 PK	68.2	-7.1	2.18 H	339	48.4	12.7
4	*5610.00	103.3 PK			2.18 H	339	60.2	43.1
5	*5610.00	91.4 AV			2.18 H	339	48.3	43.1
6	#5725.00	60.8 PK	68.2	-7.4	2.18 H	339	47.6	13.2
7	11220.00	62.7 PK	74.0	-11.3	2.21 H	196	39.3	23.4
8	11220.00	48.6 AV	54.0	-5.4	2.21 H	196	25.2	23.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.2 PK	74.0	-11.8	1.92 V	237	49.5	12.7
2	5460.00	48.8 AV	54.0	-5.2	1.92 V	237	36.1	12.7
3	#5470.00	62.6 PK	68.2	-5.6	1.92 V	237	49.9	12.7
4	*5610.00	113.5 PK			1.92 V	237	70.4	43.1
5	*5610.00	100.9 AV			1.92 V	237	57.8	43.1
6	#5725.00	64.9 PK	68.2	-3.3	1.92 V	237	51.7	13.2
7	11220.00	63.0 PK	74.0	-11.0	1.92 V	237	39.6	23.4
8	11220.00	49.0 AV	54.0	-5.0	1.92 V	237	25.6	23.4

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	24°C, 68% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	60.2 PK	68.2	-8.0	2.12 H	339	47.5	12.7
2	*5690.00	102.5 PK			2.12 H	339	59.4	43.1
3	*5690.00	89.9 AV			2.12 H	339	46.8	43.1
4	#5850.00	61.3 PK	68.2	-6.9	2.12 H	339	47.7	13.6
5	11380.00	63.2 PK	74.0	-10.8	2.16 H	192	39.2	24.0
6	11380.00	49.3 AV	54.0	-4.7	2.16 H	192	25.3	24.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	60.8 PK	68.2	-7.4	2.20 V	108	48.1	12.7
2	*5690.00	112.8 PK			2.20 V	108	69.7	43.1
3	*5690.00	100.6 AV			2.20 V	108	57.5	43.1
4	#5850.00	61.6 PK	68.2	-6.6	2.20 V	108	48.0	13.6
5	11380.00	63.5 PK	74.0	-10.5	1.95 V	233	39.5	24.0
6	11380.00	49.7 AV	54.0	-4.3	1.95 V	233	25.7	24.0

Remarks:

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

RF Mode	TX 802.11ax (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	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (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	61.4 PK	68.2	-6.8	2.16 H	342	48.7	12.7
2	*5775.00	104.9 PK			2.16 H	342	61.1	43.8
3	*5775.00	92.3 AV			2.16 H	342	48.5	43.8
4	#5967.20	62.1 PK	68.2	-6.1	2.16 H	342	48.3	13.8
5	11550.00	62.7 PK	74.0	-11.3	2.21 H	193	38.8	23.9
6	11550.00	48.9 AV	54.0	-5.1	2.21 H	193	25.0	23.9
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	#5645.20	67.8 PK	68.2	-0.4	1.83 V	49	54.4	13.4
2	*5775.00	116.5 PK			1.83 V	49	72.7	43.8
3	*5775.00	103.9 AV			1.83 V	49	60.1	43.8
4	#5926.40	64.0 PK	68.2	-4.2	1.83 V	49	49.6	14.4
5	11550.00	64.4 PK	74.0	-9.6	1.95 V	243	39.3	25.1
6	11550.00	51.0 AV	54.0	-3.0	1.95 V	243	25.9	25.1

Remarks:

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

RF Mode	TX 802.11ax (HE160)	Channel	CH 50 : 5250 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.8 PK	74.0	-11.2	2.37 H	354	50.2	12.6
2	5150.00	48.6 AV	54.0	-5.4	2.37 H	354	36.0	12.6
3	*5250.00	97.8 PK			2.37 H	354	55.4	42.4
4	*5250.00	86.2 AV			2.37 H	354	43.8	42.4
5	5350.00	63.4 PK	74.0	-10.6	2.37 H	354	51.0	12.4
6	5350.00	48.6 AV	54.0	-5.4	2.37 H	354	36.2	12.4
7	#10500.00	61.8 PK	68.2	-6.4	2.05 H	188	39.2	22.6
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	68.3 PK	74.0	-5.7	1.50 V	186	55.7	12.6
2	5150.00	52.4 AV	54.0	-1.6	1.50 V	186	39.8	12.6
3	*5250.00	107.5 PK			1.50 V	186	65.1	42.4
4	*5250.00	95.4 AV			1.50 V	186	53.0	42.4
5	5350.00	73.6 PK	74.0	-0.4	1.50 V	186	61.2	12.4
6	5350.00	52.4 AV	54.0	-1.6	1.50 V	186	40.0	12.4
7	#10500.00	62.1 PK	68.2	-6.1	1.85 V	221	39.5	22.6

Remarks:

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

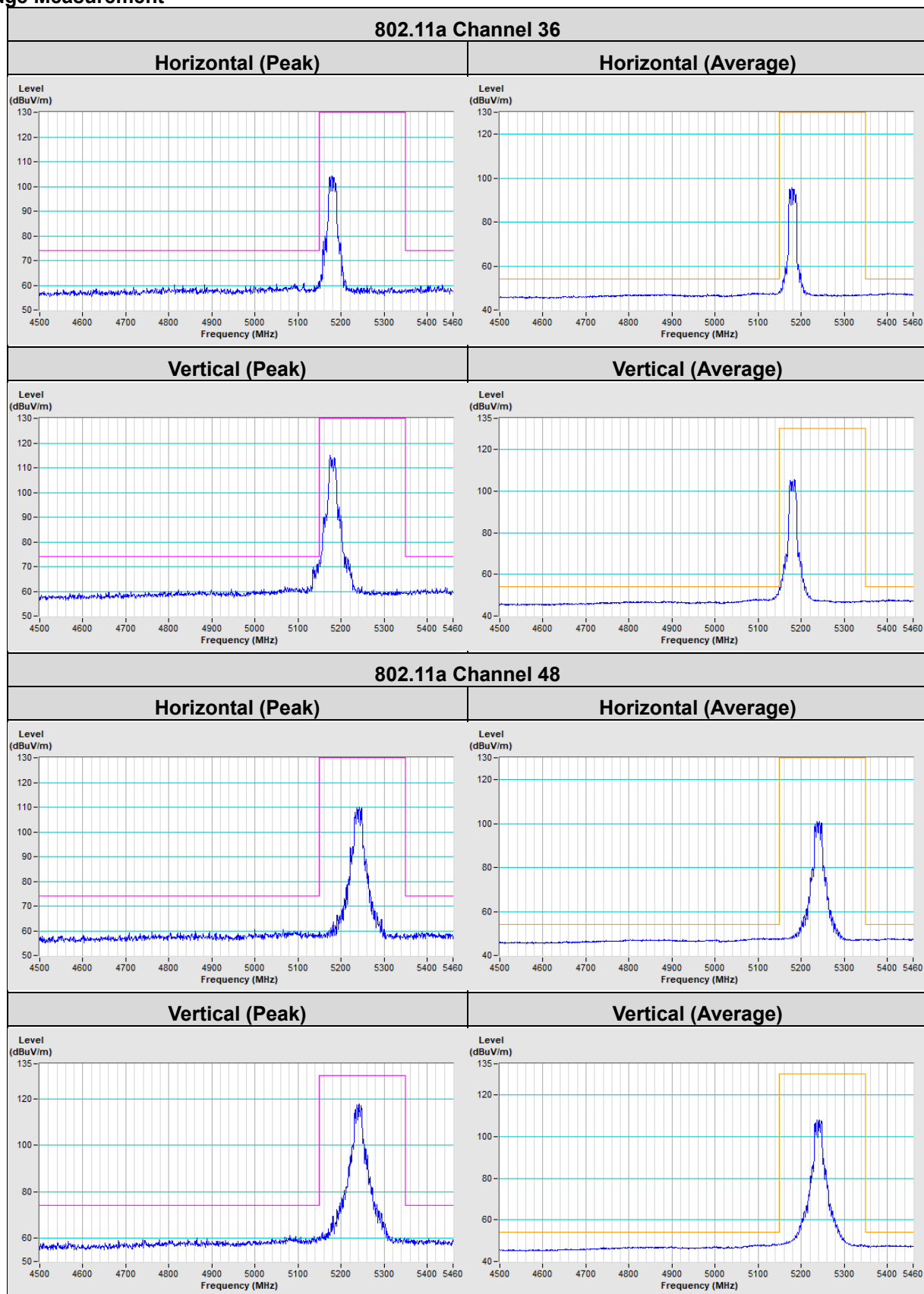
RF Mode	TX 802.11ax (HE160)	Channel	CH 114 : 5570 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23°C, 66% RH
Tested By	Titan Hsu		

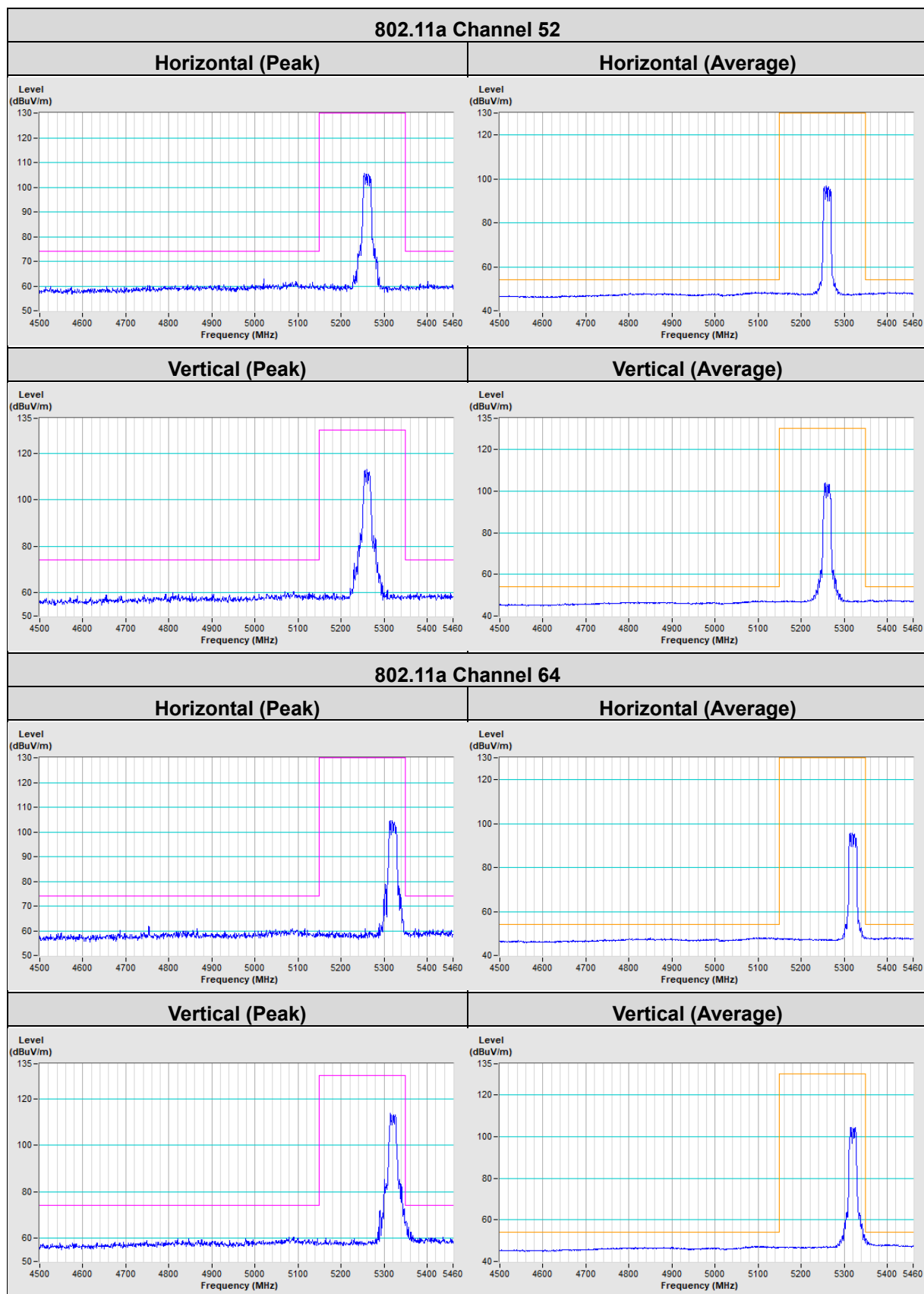
Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.7 PK	74.0	-13.3	2.35 H	337	48.0	12.7
2	5460.00	48.1 AV	54.0	-5.9	2.35 H	337	35.4	12.7
3	#5470.00	61.9 PK	68.2	-6.3	2.35 H	337	49.2	12.7
4	*5570.00	97.4 PK			2.35 H	337	54.2	43.2
5	*5570.00	85.6 AV			2.35 H	337	42.4	43.2
6	#5725.00	61.4 PK	68.2	-6.8	2.35 H	337	48.2	13.2
7	11140.00	62.3 PK	74.0	-11.7	2.18 H	185	39.2	23.1
8	11140.00	48.6 AV	54.0	-5.4	2.18 H	185	25.5	23.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	67.7 PK	74.0	-6.3	2.17 V	110	55.0	12.7
2	5460.00	52.9 AV	54.0	-1.1	2.17 V	110	40.2	12.7
3	#5470.00	68.0 PK	68.2	-0.2	2.17 V	110	55.3	12.7
4	*5570.00	109.0 PK			2.17 V	110	65.8	43.2
5	*5570.00	95.9 AV			2.17 V	110	52.7	43.2
6	#5725.00	65.7 PK	68.2	-2.5	2.17 V	110	52.5	13.2
7	11140.00	62.6 PK	74.0	-11.4	1.89 V	229	39.5	23.1
8	11140.00	48.8 AV	54.0	-5.2	1.89 V	229	25.7	23.1

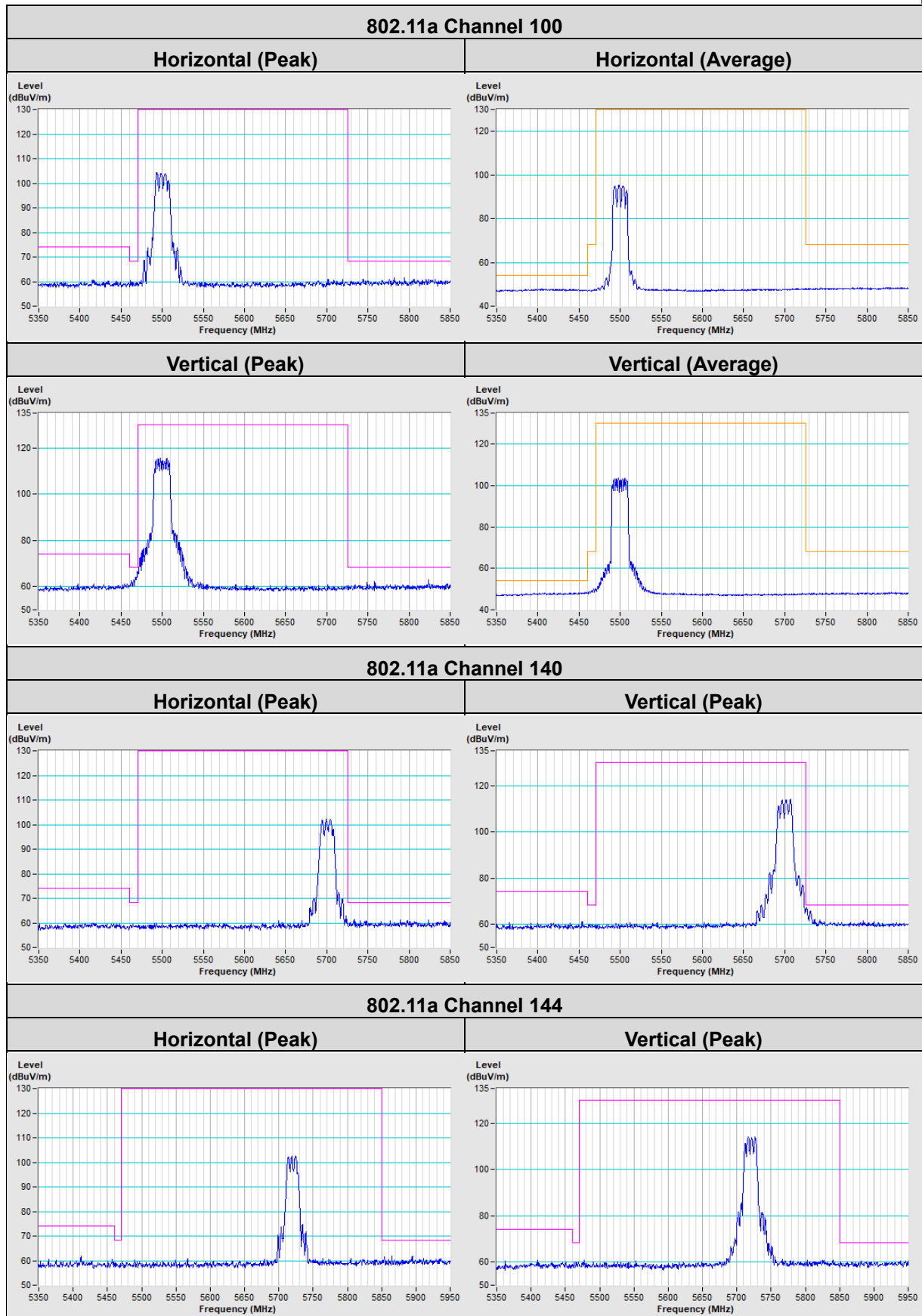
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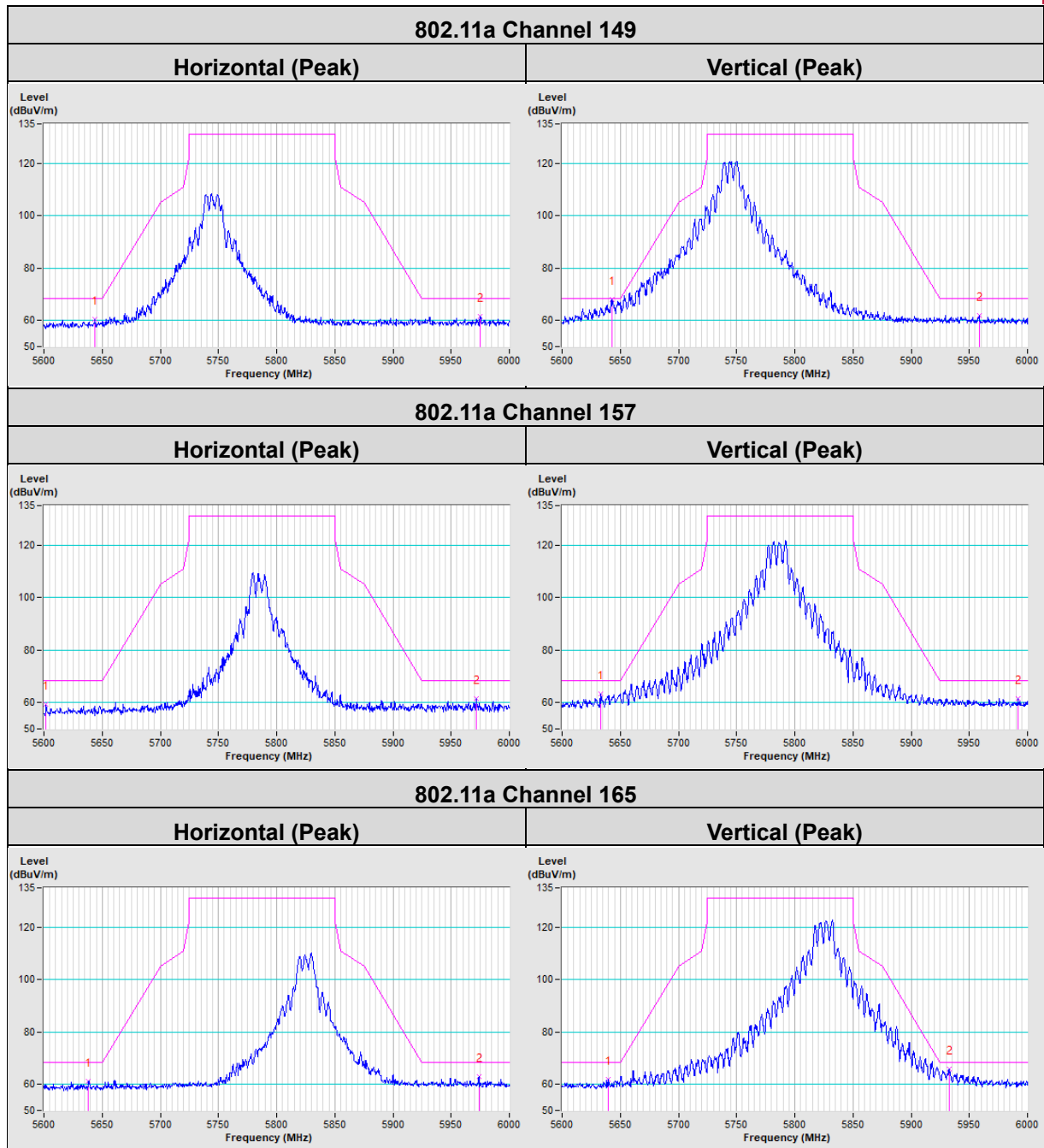
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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

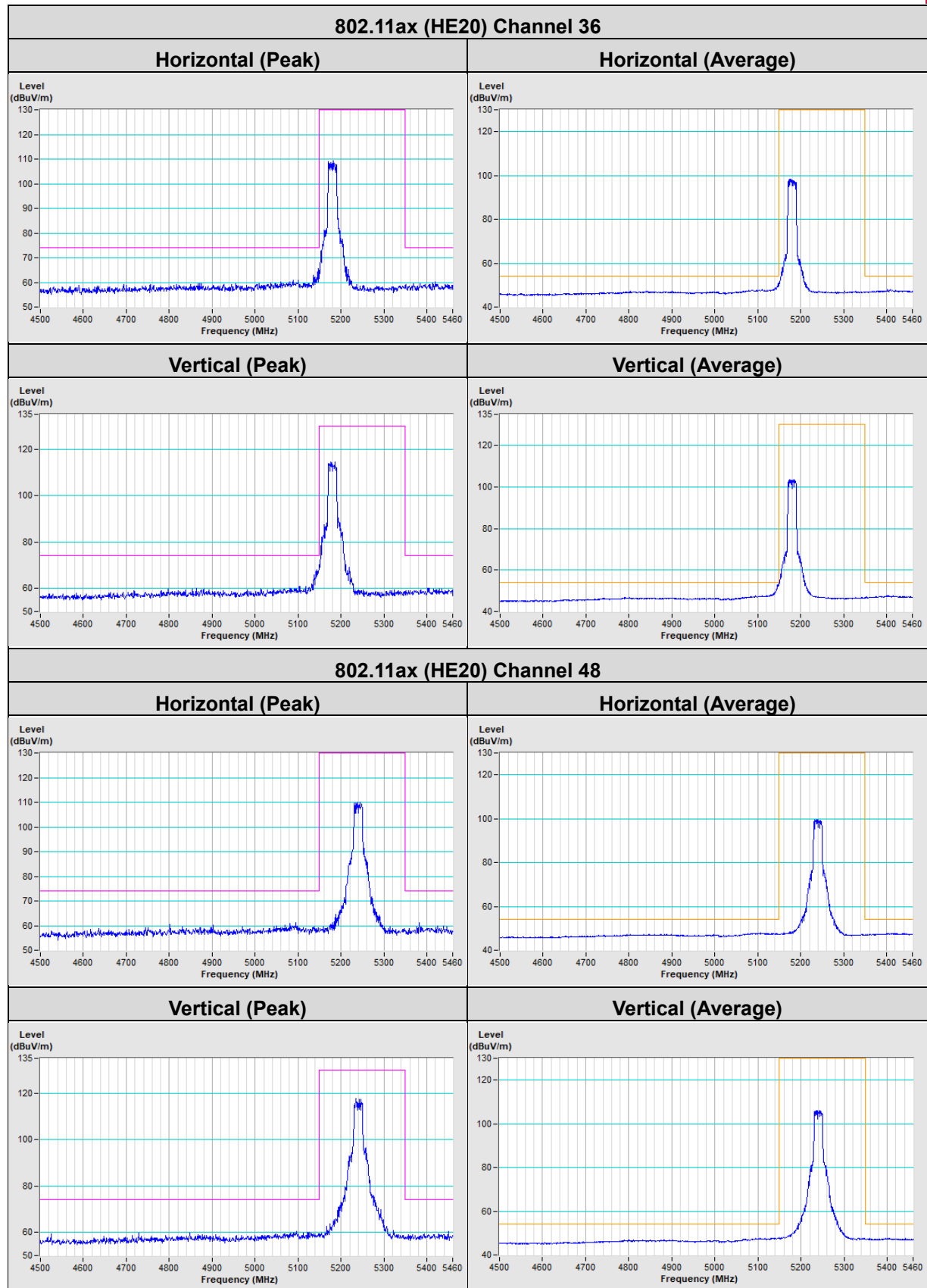
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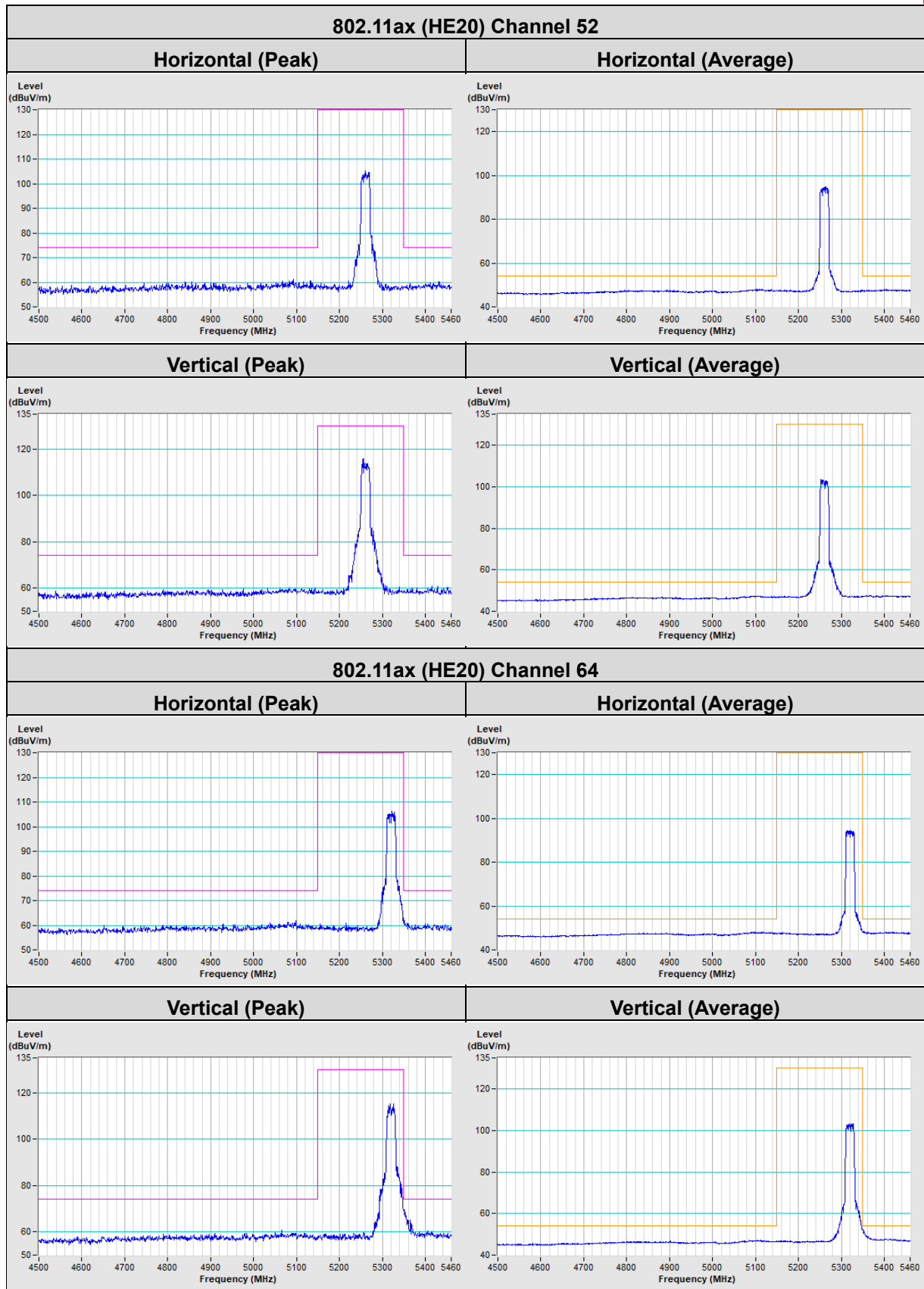


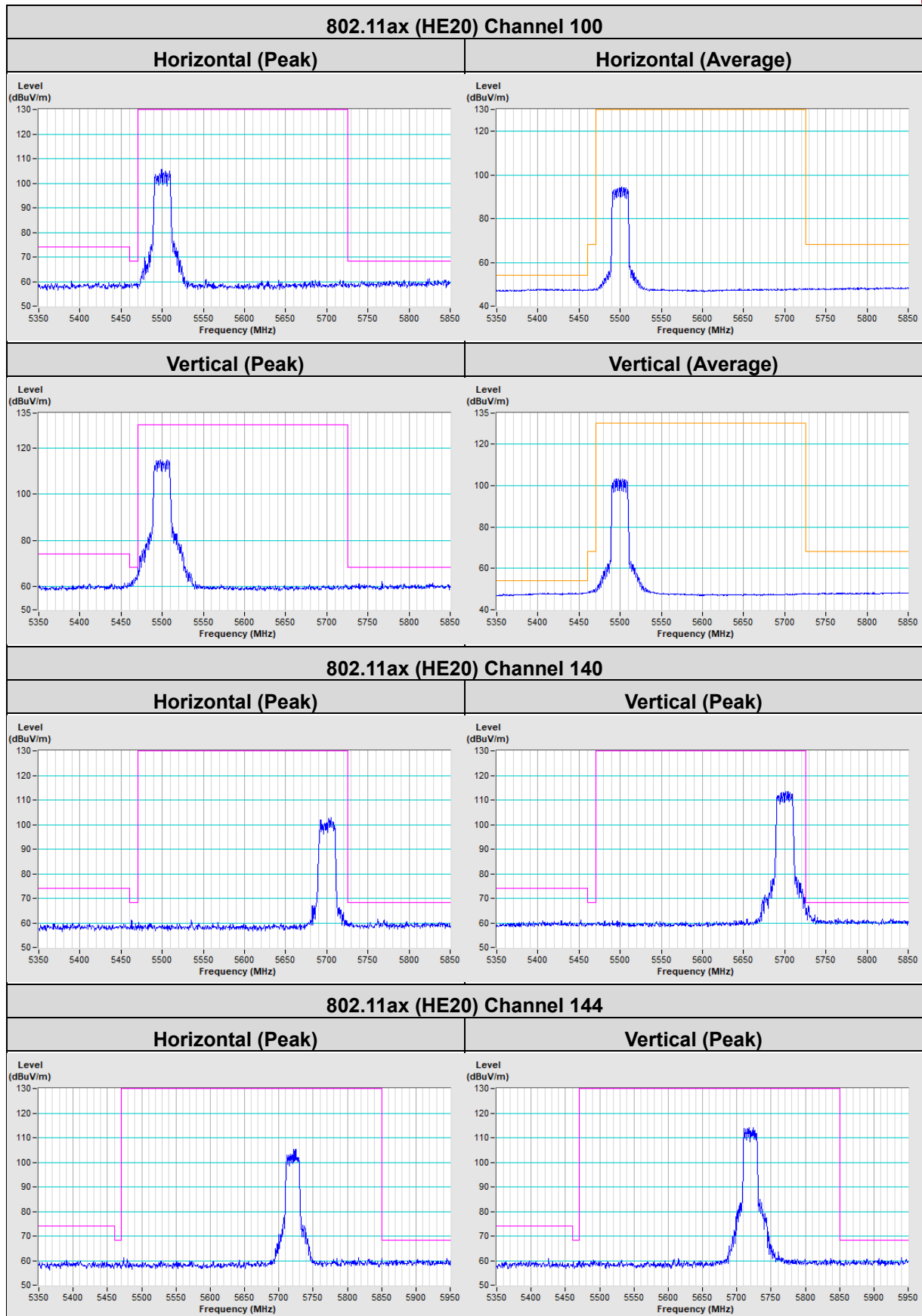


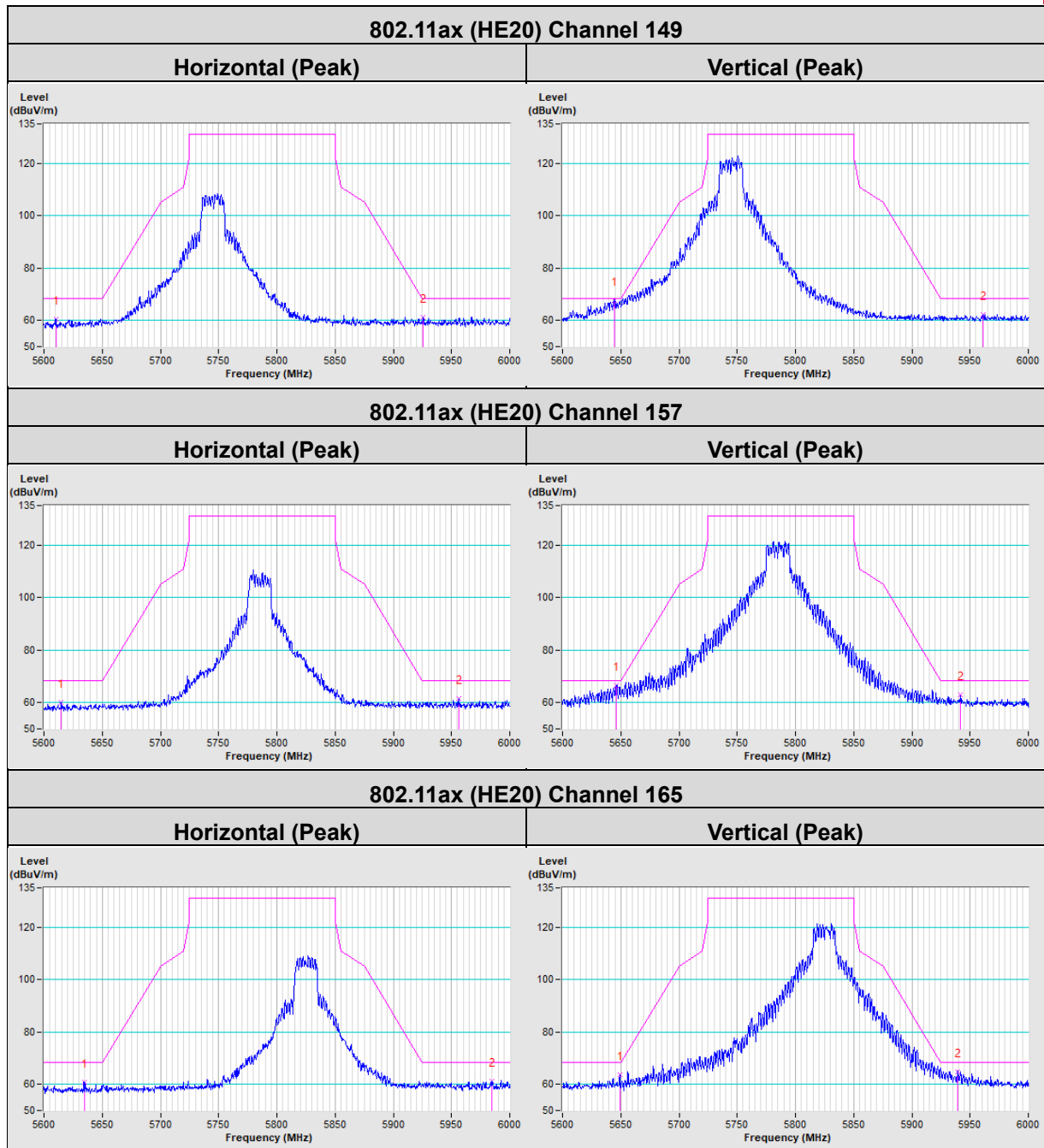


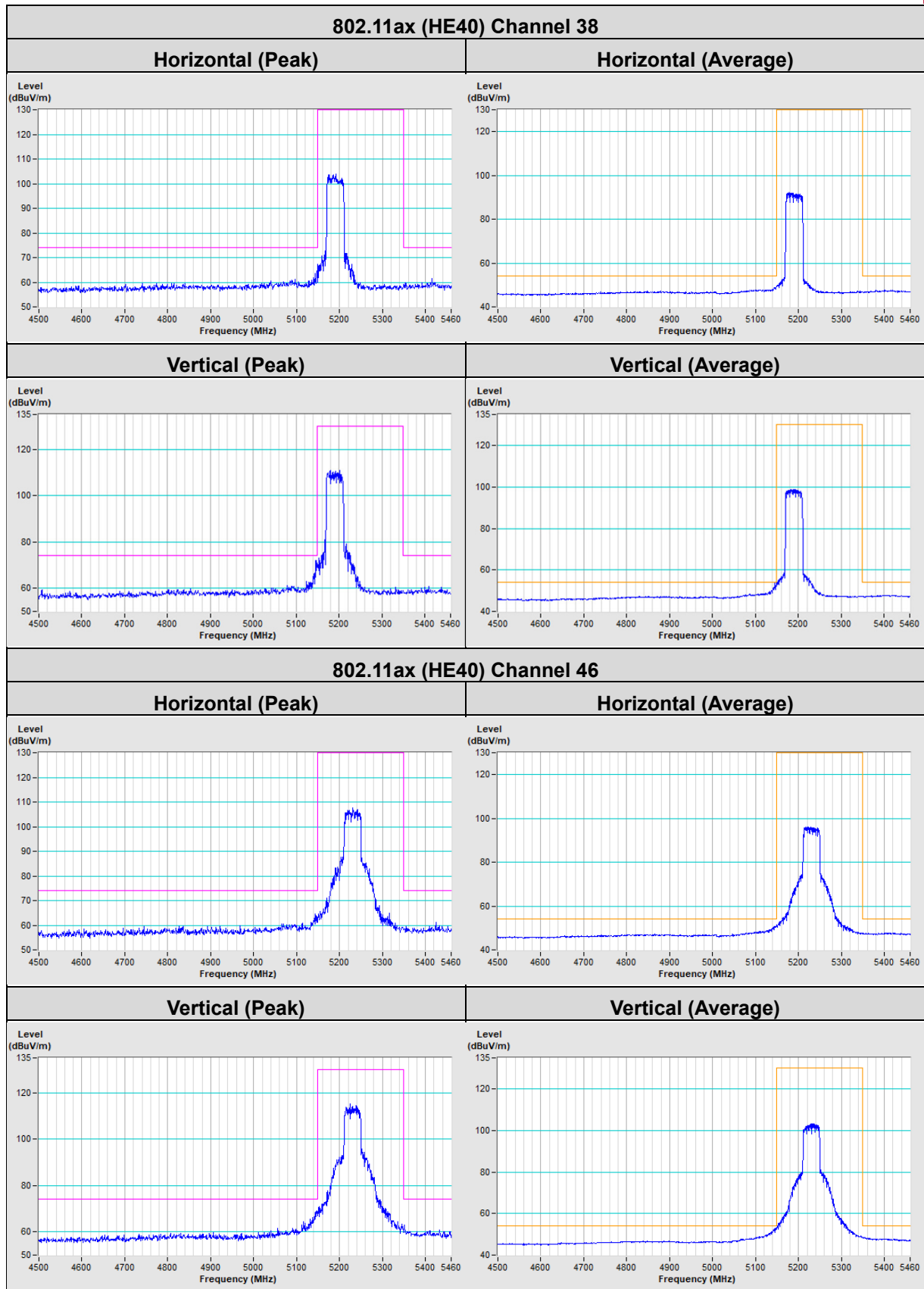


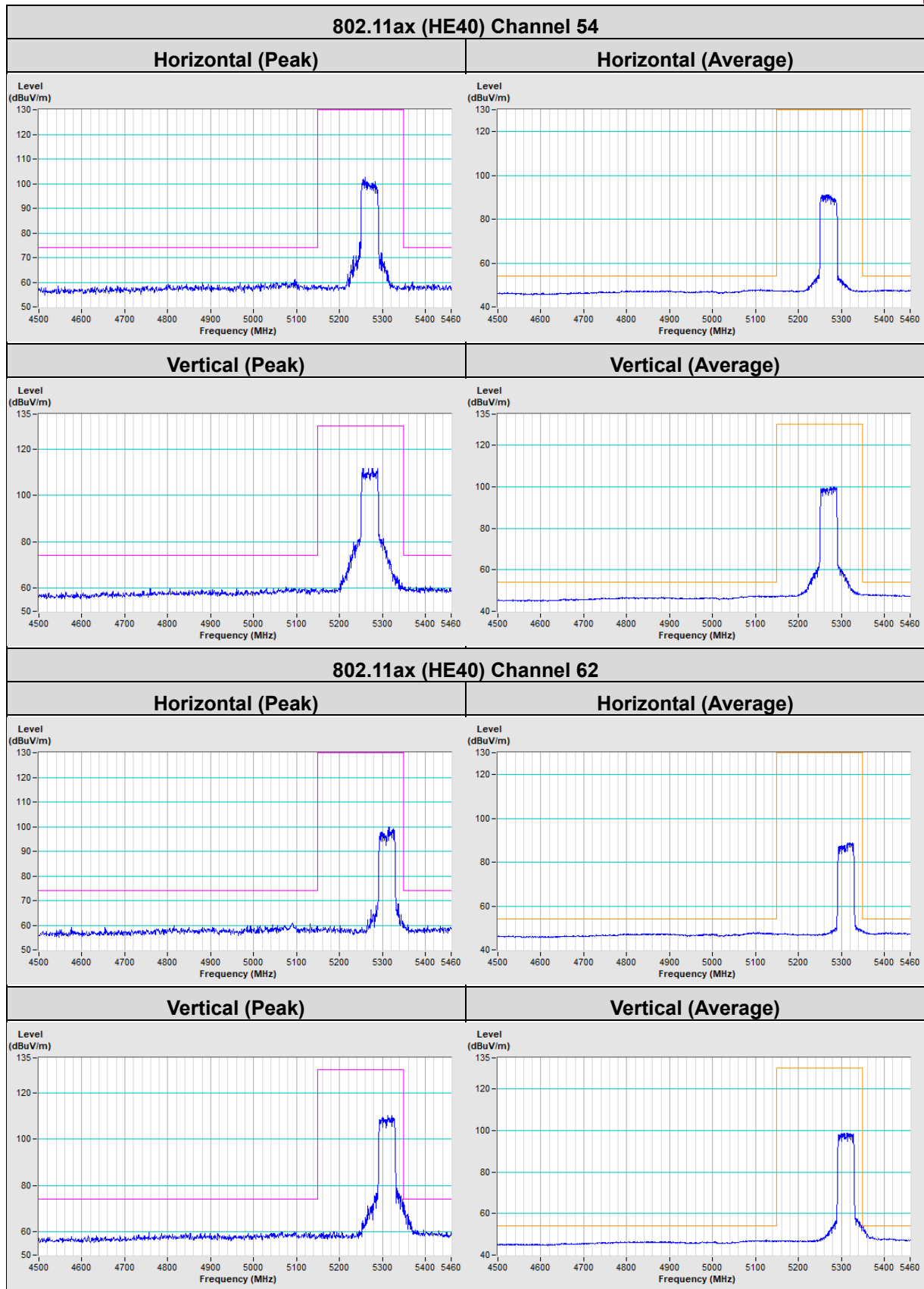


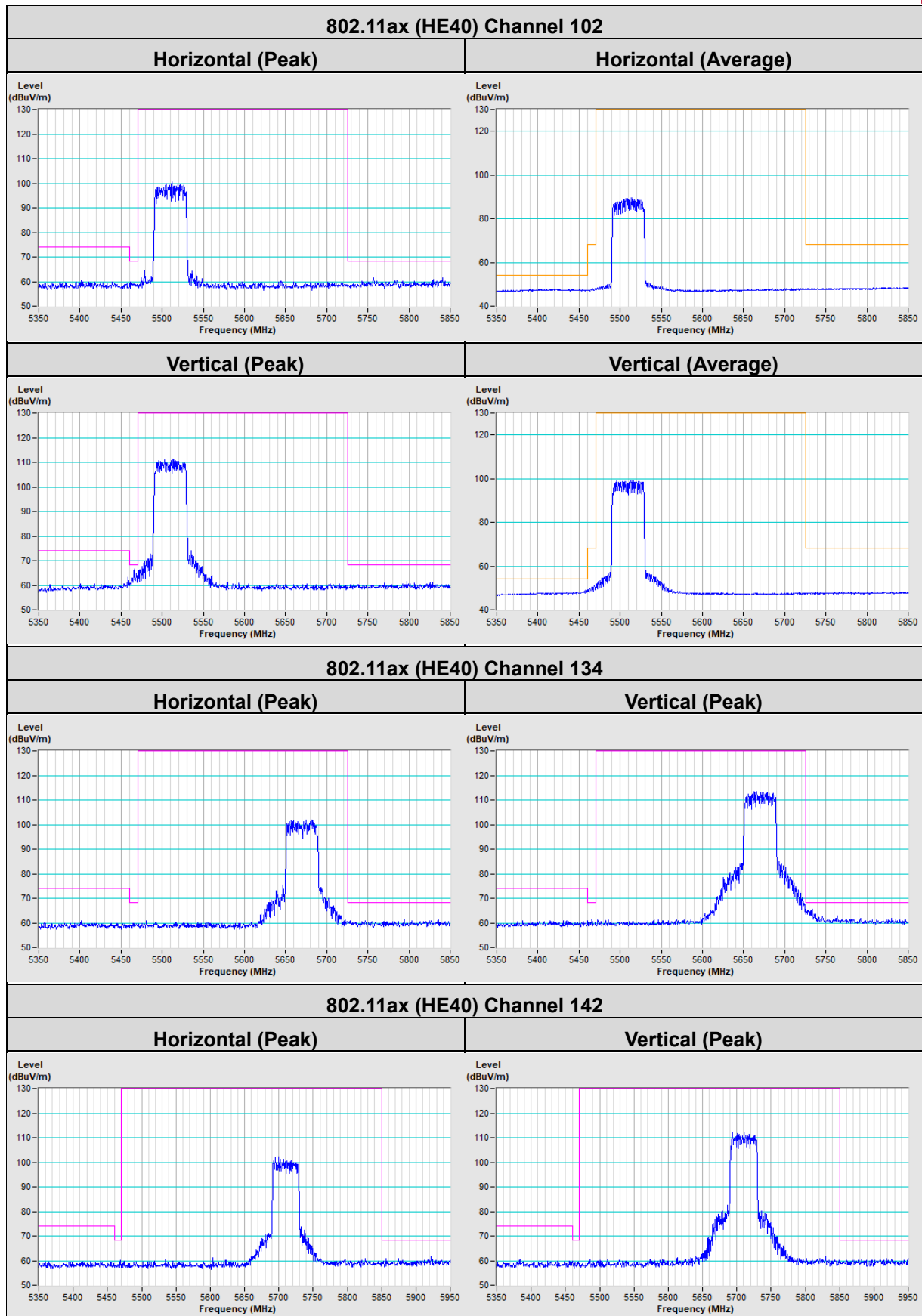


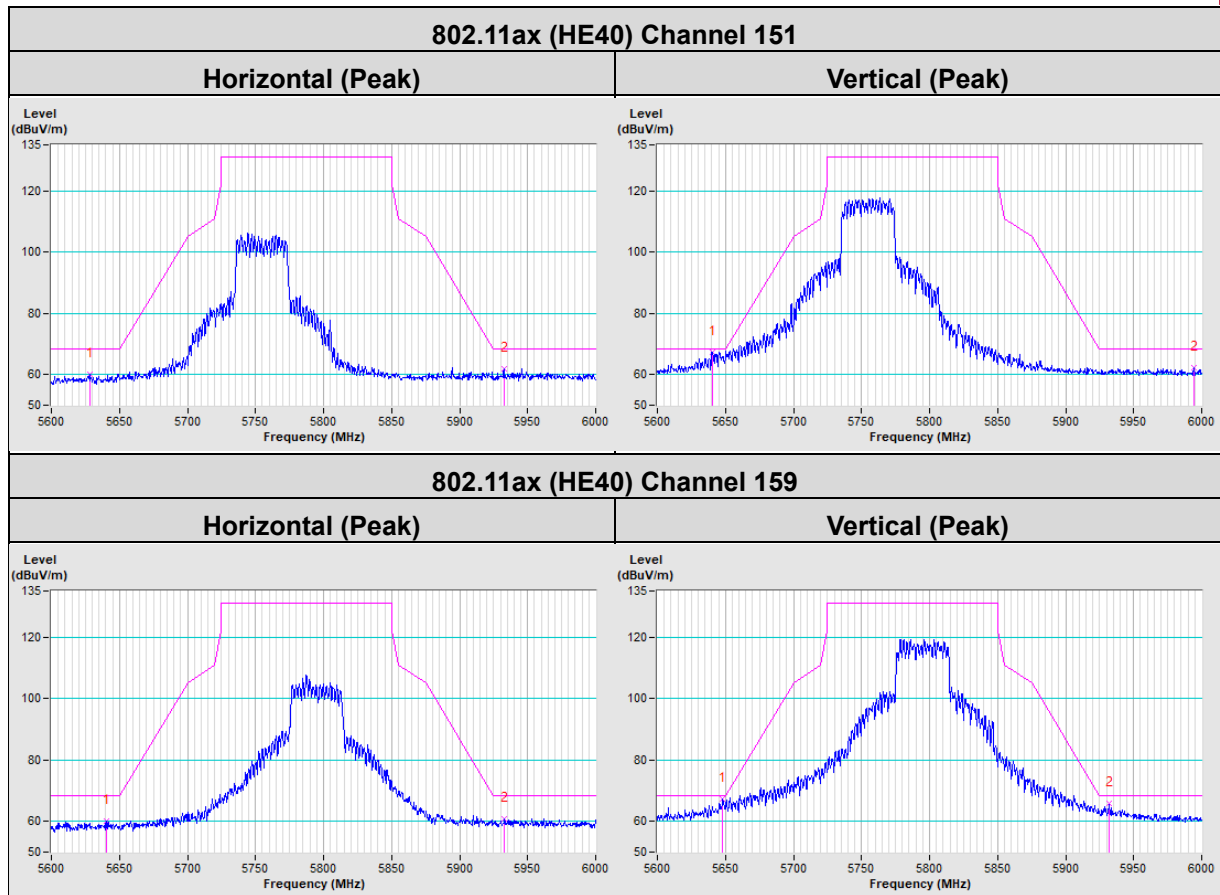


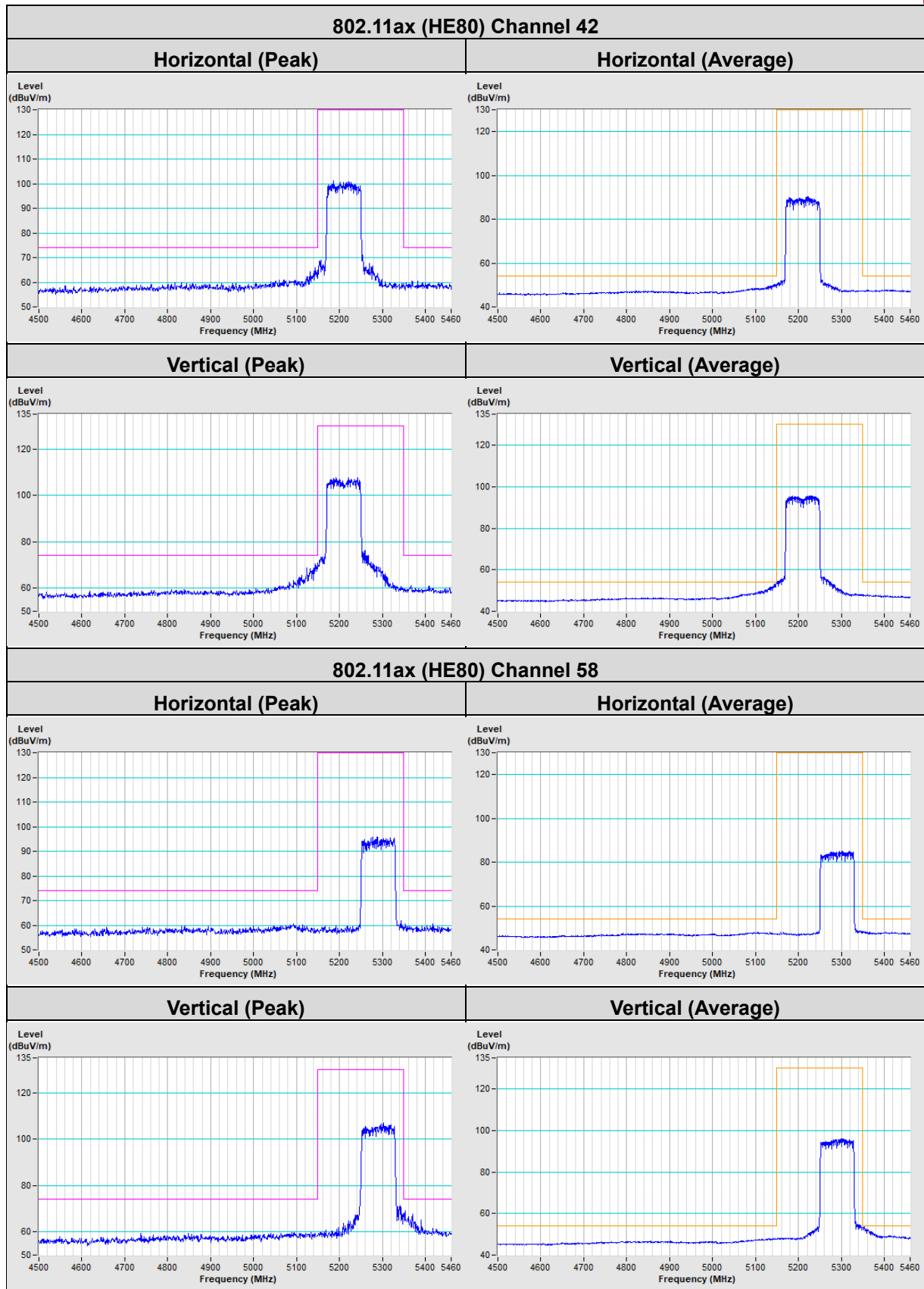


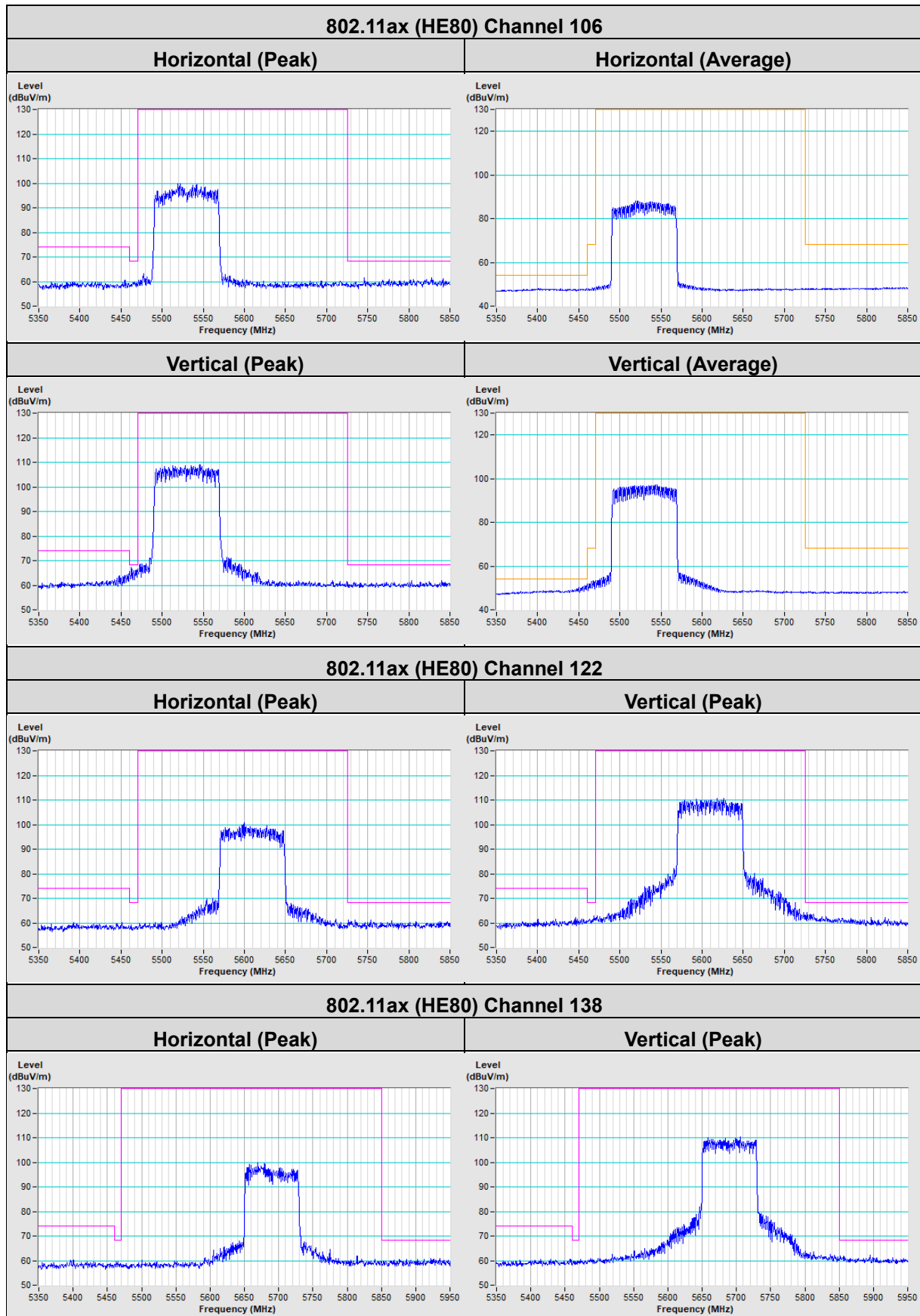


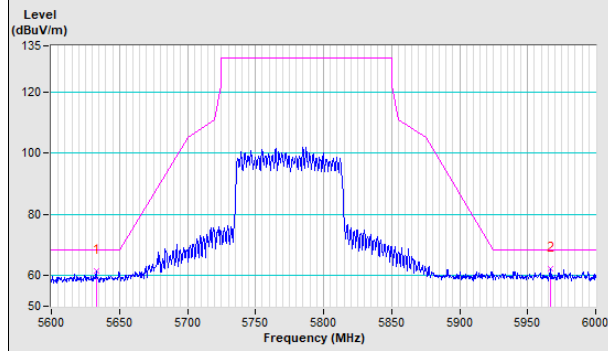
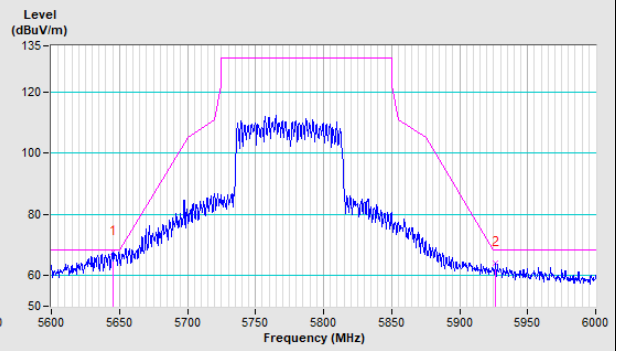


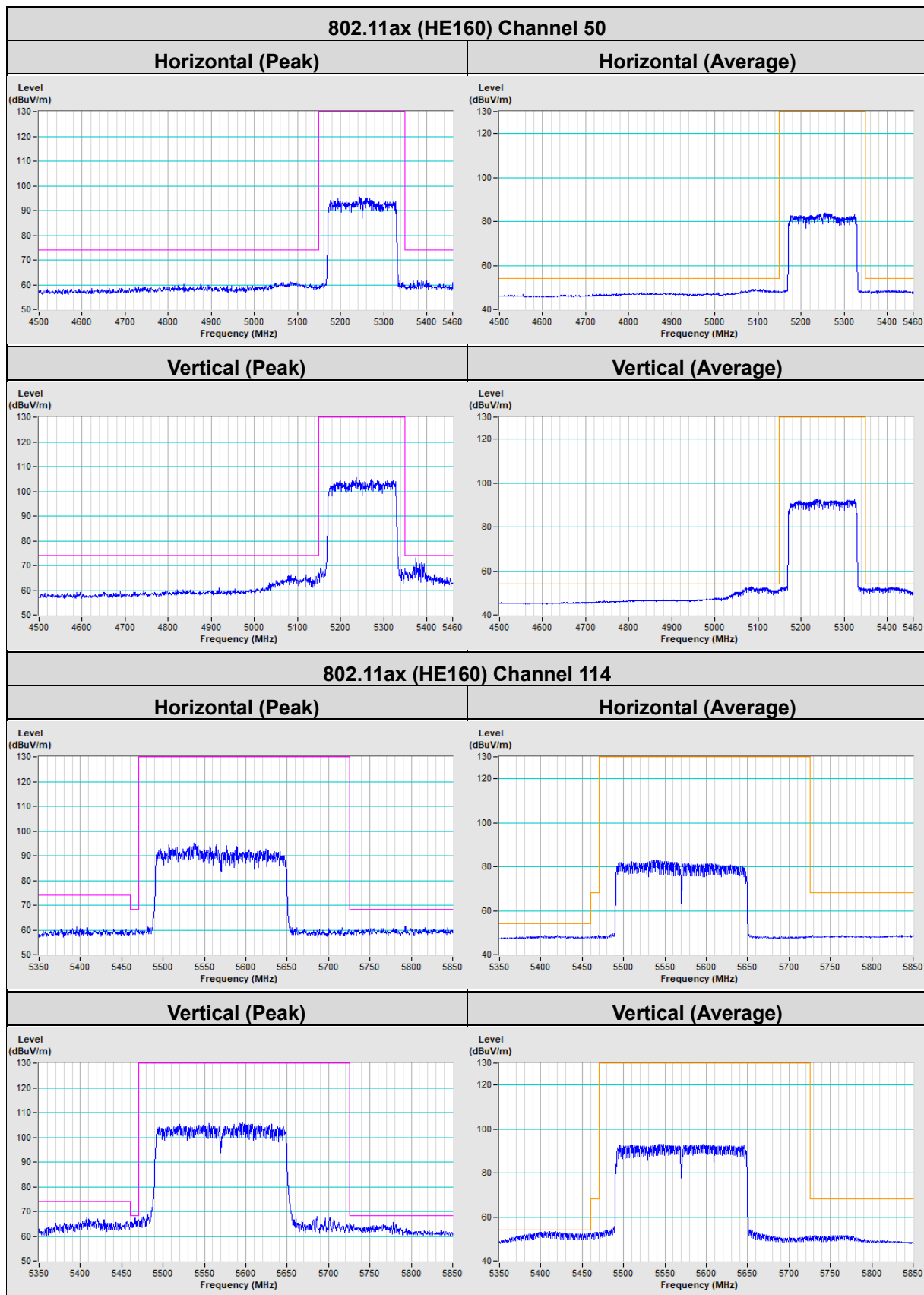








802.11ax (HE80) Channel 155**Horizontal (Peak)****Vertical (Peak)**



8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

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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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