

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBEDV-WTW-P25060155-1

FCC ID: G95-CGA437C

Product: Cable Gateway Docsis 3.1

Brand: Vantiva

Model No.: CGA437CVBV5

Series Model: CGA437CXXXX (where every x can be any alpha numeric symbol from A to Z, or number from 0 to 9 or blank, which are all for marketing purposes only)

Received Date: 2025/5/15

Test Date: 2025/5/15 ~ 2025/6/18

Issued Date: 2025/7/11

Applicant: Vantiva USA LLC

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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Test Location(2): No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

FCC Registration / 788550 / TW0003 for Test Location(1)

Designation Number: 281270 / TW0032 for Test Location(2)

Approved by:

Jeremy Lin

Jeremy Lin / Project Engineer

Date:

2025/7/11

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Prepared by : Celine Chou / Senior Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBEDV-WTW-P25060155-1	Original release.	2025/7/11

1 Certificate

Product: Cable Gateway Docsis 3.1

Brand: Vantiva

Test Model: CGA437CVBV5

Series Model: CGA437CXXXX (where every x can be any alpha numeric symbol from A to Z, or number from 0 to 9 or blank, which are all for marketing purposes only)

Sample Status: Engineering sample

Applicant: Vantiva USA LLC

Test Date: 2025/5/15 ~ 2025/6/18

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

Measurement ANSI C63.10-2013

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

KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	-	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 15.407(a)(2) 15.407(a)(3)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6 dB Bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
---	Occupied Bandwidth	-	Reference only.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -15.21 dB at 0.39759 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -5.6 dB at 46.49 MHz
15.407(b) (1/10) 15.407(b) (2/10) 15.407(b) (3/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 5350.00 MHz and 5470.00 MHz
15.203	Antenna Requirement	Pass	No antenna connector is used.

Notes:

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

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
26 dB Bandwidth	-	206.5 Hz
RF Output Power	-	1.371 dB
Power Spectral Density	-	1.017 dB
6 dB Bandwidth	-	206.5 Hz
Occupied Bandwidth	-	72 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.90 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.00 dB
	30 MHz ~ 1 GHz	2.93 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	1.76 dB
	18 GHz ~ 40 GHz	1.77 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	Cable Gateway Docsis 3.1
Brand	Vantiva
Test Model	CGA437CVBV5
Series Model	CGA437CXXXX (where every x can be any alpha numeric symbol from A to Z, or number from 0 to 9 or blank, which are all for marketing purposes only)
Status of EUT	Engineering sample
Power Supply Rating	12 Vdc from adapter
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	Up to 1201.0 Mbps
Operating Frequency	5.18 GHz ~ 5.24 GHz 5.26 GHz ~ 5.32 GHz 5.50 GHz ~ 5.72 GHz 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6
Output Power	5.18 GHz ~ 5.24 GHz : 657.844 mW (28.18 dBm) 5.26 GHz ~ 5.32 GHz : 209.471 mW (23.21 dBm) 5.50 GHz ~ 5.72 GHz : 209.471 mW (23.21 dBm) 5.745 GHz ~ 5.825 GHz : 633.305 mW (28.02 dBm)
EUT Category	Indoor Access Point

Note:

1. All models are listed as below.

Brand	Model No.	Difference description
Vantiva	CGA437CVBV5 (main tested model)	for marketing purposes only
	CGA437CXXXX (where every x can be any alpha numeric symbol from A to Z, or number from 0 to 9 or blank)	

2. The EUT uses following accessories.

AC Adapter 1	Brand	HONOTO
	Model	ADS-36LE-12 12030EPCU-L
	AC Input	100-120 Vac; 50/60 Hz; 0.8 A
	DC Output	12 Vdc, 2.5 A
	DC Output Cable	1.2 m, without Core
	Manufacturer	SHENZHEN HONOR ELECTRONIC CO., LTD

3. There are WLAN (2.4 GHz & 5 GHz) technology used for the EUT.

4. Simultaneously transmission combination.

Combination	Technology	
1	WLAN (2.4 GHz)	WLAN (5 GHz)

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

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Ant. No.	Ant. Net Gain (dBi)	Frequency Range	Antenna Type	Connector Type
DB-1	2.47	2400~2483.5 MHz	PCB	Murata
	4.59	5150~5250 MHz		
	4.50	5250~5350 MHz		
	5.37	5470~5725 MHz		
	4.87	5725~5850 MHz		
DB-2	4.11	2400~2483.5 MHz	PCB	Murata
	4.97	5150~5250 MHz		
	4.71	5250~5350 MHz		
	4.69	5470~5725 MHz		
	3.91	5725~5850 MHz		

Antenna Gain	Directional Gain (dBi)
2400~2483.5 MHz	3.72
5150~5250 MHz	4.32
5250~5350 MHz	4.51
5470~5725 MHz	6.08
5725~5850 MHz	5.53

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

2. The EUT incorporates a MIMO function:

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

Note:

1. All of modulation mode support beamforming function except 802.11a modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz, 80 MHz) and 802.11ax mode for 20 MHz (40 MHz, 80 MHz). Therefore the investigated worst case is the representative mode in test report.

3.3 Channel List

FOR 5180 ~ 5320 MHz

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

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

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

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

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

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

FOR 5500 ~ 5720 MHz

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

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

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

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

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

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

FOR 5745 ~ 5825 MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

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

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	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).
Worst Case:	The EUT is designed to be positioned on the Standing Mode only

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

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

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Occupied Bandwidth	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0
AC Power Conducted Emissions	802.11ax (HE40)	CDD	46	BPSK	MCS0
Unwanted Emissions below 1 GHz	802.11ax (HE40)	CDD	46	BPSK	MCS0
Unwanted Emissions above 1 GHz	802.11a	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	6Mb/s
	802.11ax (HE20)	CDD	36, 40, 48, 52, 60, 64, 100, 116, 140, 144, 149, 157, 165	BPSK	MCS0
	802.11ax (HE40)	CDD	38, 46, 54, 62, 102, 110, 134, 142, 151, 159	BPSK	MCS0
	802.11ax (HE80)	CDD	42, 58, 106, 122, 138, 155	BPSK	MCS0

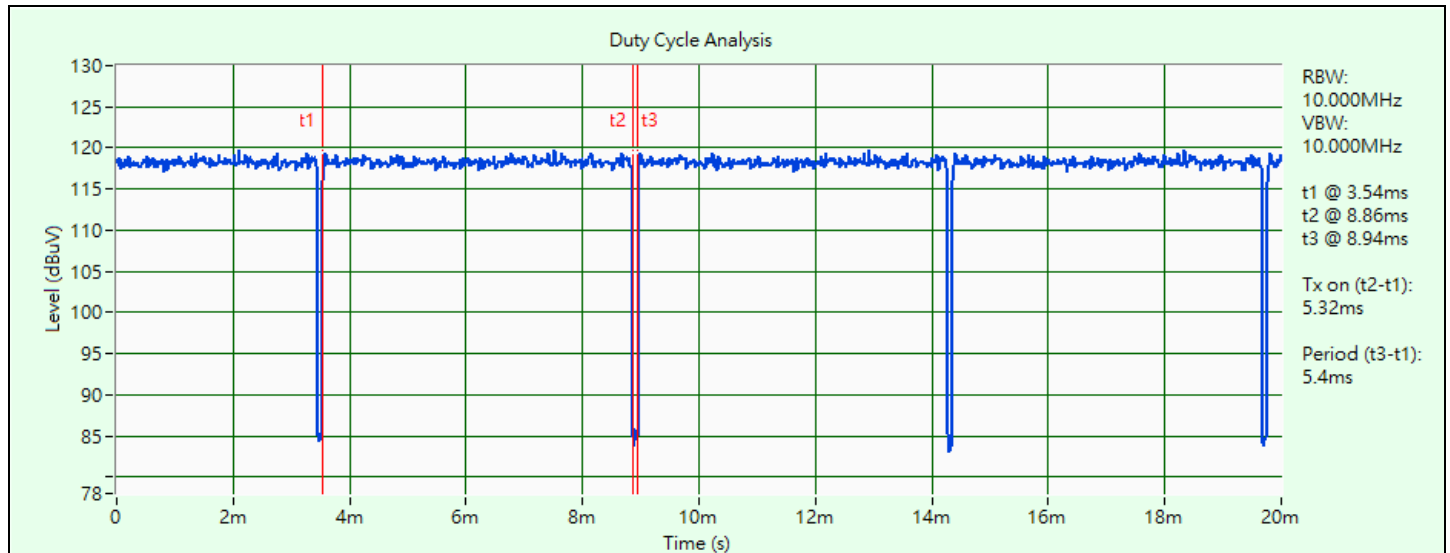
3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = 5.32 ms / 5.4 ms x 100% = 98.5%

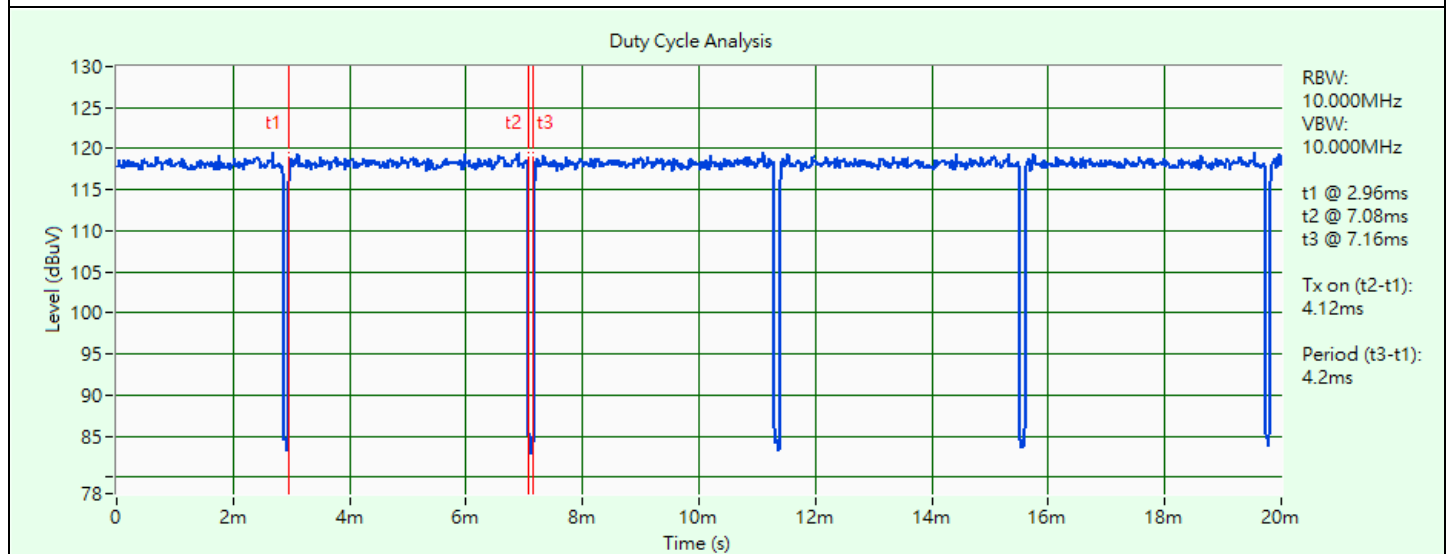
802.11ax (HE20): Duty cycle = 4.12 ms / 4.2 ms x 100% = 98.1%

802.11ax (HE40): Duty cycle = 4.22 ms / 4.3 ms x 100% = 98.1%

802.11ax (HE80): Duty cycle = 1.25 ms / 1.27 ms x 100% = 98.4%

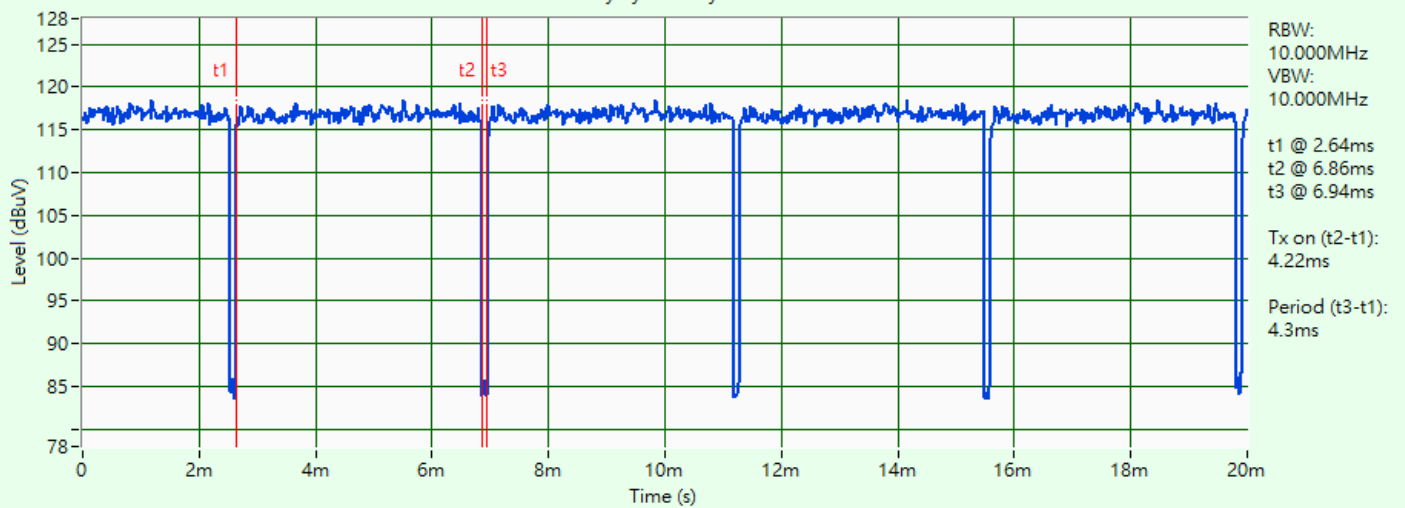


802.11a



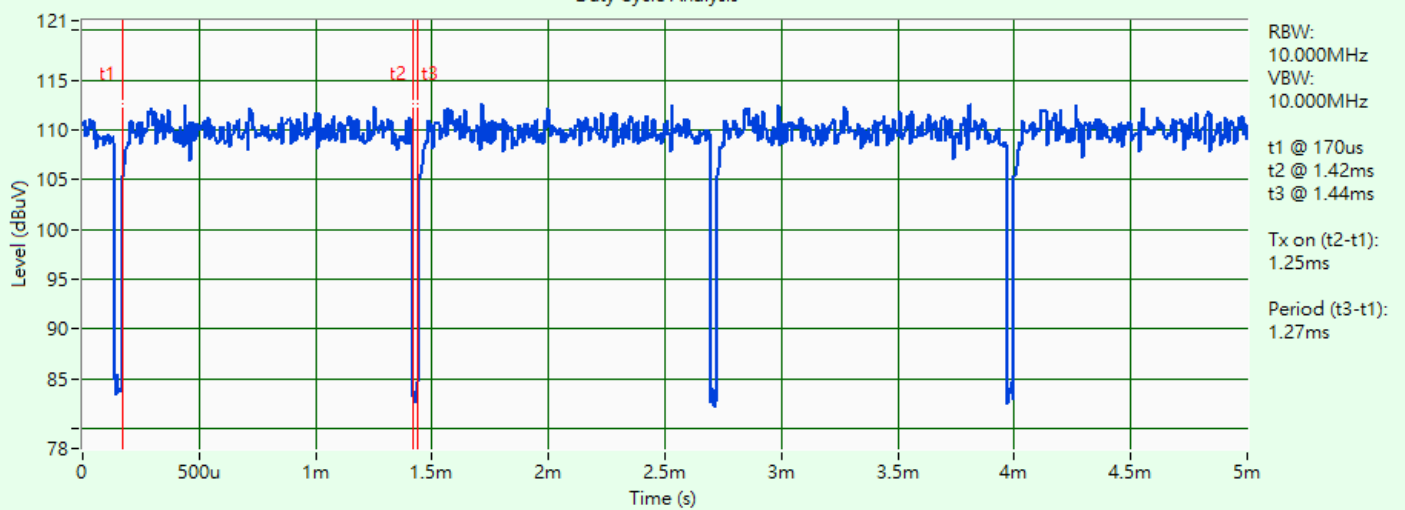
802.11ax (HE20)

Duty Cycle Analysis



802.11ax (HE40)

Duty Cycle Analysis

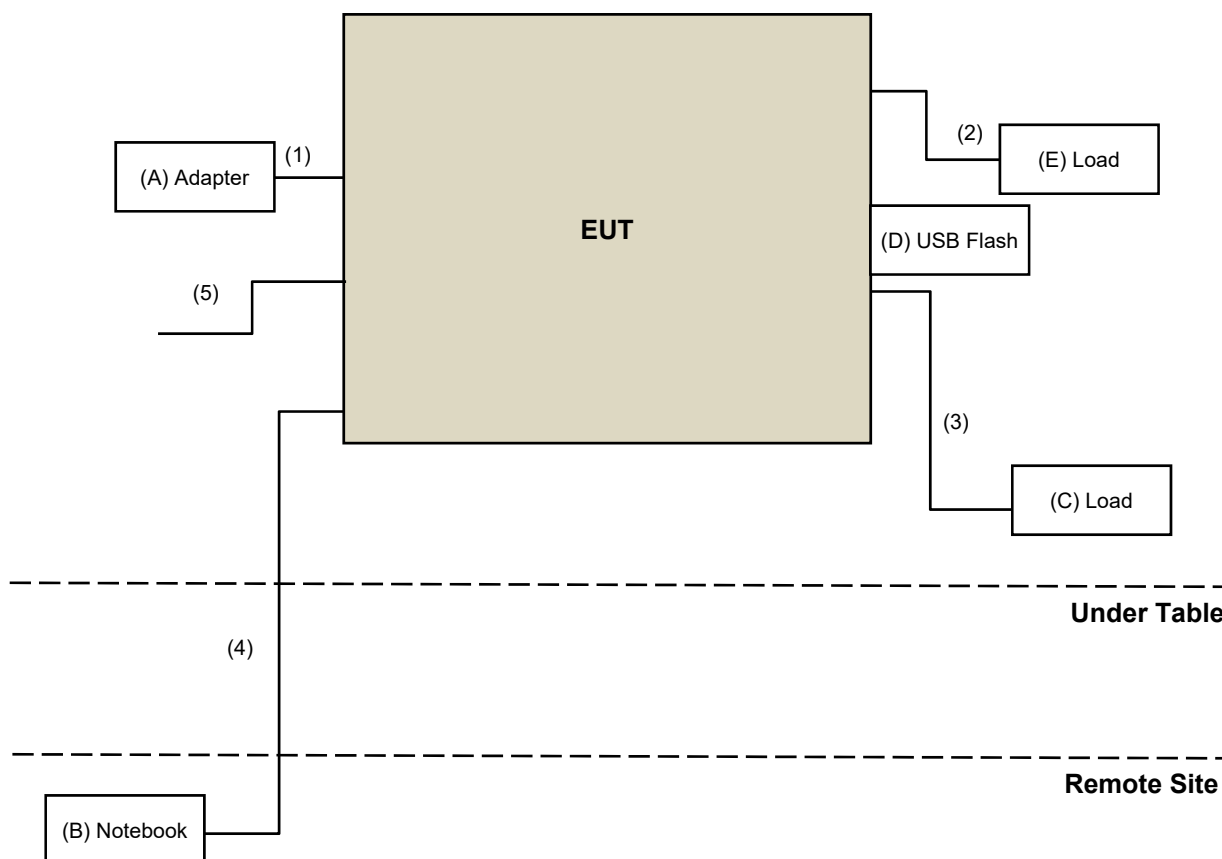


802.11ax (HE80)

3.6 Test Program Used and Operation Descriptions

Controlling software accessMtool version 3.3.0.6 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	Adapter	HONOTO	ADS-36LE-12 12030EPCU-L	N/A	N/A	Supplied by applicant
B	Notebook	Lenovo	L470	PF11CSQA	N/A	Provided by Lab
C	Load	N/A	N/A	N/A	N/A	Provided by Lab
D	USB Flash	SanDisk	SDDDC3-032G	N/A	N/A	Provided by Lab
E	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	DC Cable	1	1.2	Yes	0	Supplied by applicant
2	RJ-11 Cable	1	1.5	No	0	Provided by Lab
3	RJ-45 Cable	2	1.5	No	0	Provided by Lab
4	RJ-45 Cable	1	6	No	0	Provided by Lab
5	Coaxial Cable	1	1.8	No	0	Provided by Lab

4 Test Instruments

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

4.1 26 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/6/18

4.2 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23	2026/5/22
Peak Power Analyzer Keysight	8990B	MY51000485	2025/1/20	2026/1/19
Signal & Spectrum Analyzer R&S	FSV3044	101504	2025/6/18	2026/6/17
Software BV	ADT_RF Test Software V7.6.5.4	N/A	N/A	N/A
Wideband Power Sensor Keysight	N1923A	MY58020002	2025/1/21	2026/1/20
		MY58140009	2025/1/21	2026/1/20

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2025/6/18

4.3 Power Spectral Density

Refer to section 4.1 to get the tested date and information of the instruments.

4.4 6 dB Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.1 to get the tested date and information of the instruments.

4.6 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	E1-011279	04	2024/11/28	2025/11/27
	E1-011280	05	2024/11/28	2025/11/27
	E1-011311	09	2024/11/28	2025/11/27
DC-LISN Schwarzbeck	NNBM 8126G	8126G-069	2024/11/5	2025/11/4
EMI Test Receiver R&S	ESR3	102783	2024/12/17	2025/12/16
Fixed Attenuator STI	BNC5W10dB	PAD-COND2-01	2024/8/25	2025/8/24
LISN R&S	ESH2-Z5	100100	2025/3/5	2026/3/4
	ESH3-Z5	100312	2024/9/9	2025/9/8
RF Coaxial Cable Woken	5D-FB	Cable-cond2-01	2024/8/25	2025/8/24
Software BVADT	BVADT_Cond_ V7.4.1.0	N/A	N/A	N/A
V-LISN Schwarzbeck	NNBL 8226-2	8226-142	2024/8/28	2025/8/27

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2025/6/17

4.7 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-1213	2024/10/14	2025/10/13
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Loop Antenna TESEQ	HLA 6121	45745	2024/8/21	2025/8/20
MXE EMI Receiver Keysight	N9038B	MY60180019	2025/1/15	2026/1/14
Preamplifier EMCI	EMC330N	980782	2025/1/14	2026/1/13
RF Coaxial Cable EMCI	EMCCFD400-NM-NM-500	201233	2025/1/14	2026/1/13
	EMCCFD400-NM-NM-3000	201235	2025/1/14	2026/1/13
	EMCCFD400-NM-NM-9000	201236(with PAD)	2025/1/14	2026/1/13
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2025/6/17

4.8 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Antenna Tower Max-Full	MFT-151SS-0.5T	N/A	N/A	N/A
EXA Signal Analyzer Agilent	N9010A	MY52220207	2024/12/30	2025/12/29
Horn Antenna RFSPIN	DRH18-E	210103A18E	2024/11/10	2025/11/9
Horn Antenna Schwarzbeck	BBHA 9170	9170-1049	2024/11/10	2025/11/9
MXE EMI Receiver Keysight	N9038B	MY60180019	2025/1/15	2026/1/14
Preamplifier EMCI	EMC118A45SE	980808	2024/12/26	2025/12/25
	EMC184045SE	980788	2025/1/14	2026/1/13
RF Coaxial Cable EMCI	EMC101G-KM-KM-2000	201254	2025/1/14	2026/1/13
	EMC101G-KM-KM-3000	201258	2025/1/14	2026/1/13
	EMC101G-KM-KM-5000	201261	2025/1/14	2026/1/13
	EMC104-SM-SM-1000	210102	2025/1/14	2026/1/13
	EMC104-SM-SM-3000	201231	2025/1/14	2026/1/13
	EMC104-SM-SM-9000	201243	2025/1/14	2026/1/13
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	N/A	N/A	N/A
Turn Table Max-Full	MF-7802BS	N/A	N/A	N/A
Turn Table Controller Max-Full	MF-7802BS	MF780208674	N/A	N/A

Notes:

1. The test was performed in WM - 966 chamber 8.
2. Tested Date: 2025/5/15 ~ 2025/5/28

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 Points	1 Watt (30 dBm)
	Indoor Access Point	1 Watt (30 dBm)
	Client devices	250mW (24 dBm)

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

*B is the 26 dB emission bandwidth in megahertz

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

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

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 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 Points	
	Indoor Access Point	
	Client devices	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 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.

5.7 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).

5.8 Unwanted Emissions above 1 GHz

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

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

Notes:

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

Limits of unwanted emission out of the restricted bands

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

For transmitters operating in the 5.15-5.25 GHz band:

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

For transmitters operating in the 5.25-5.35 GHz band:

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

For transmitters operating in the 5.47-5.725 GHz band:

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

For transmitters operating in the 5.725-5.850 GHz band:

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

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

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

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

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

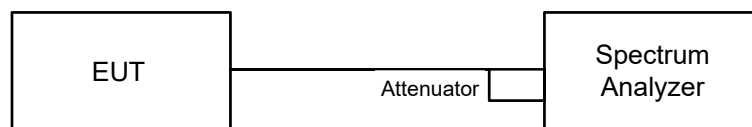
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 26 dB Bandwidth

6.1.1 Test Setup

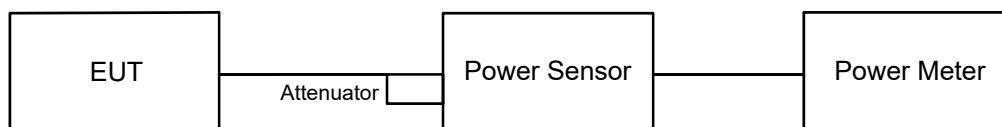


6.1.2 Test Procedure

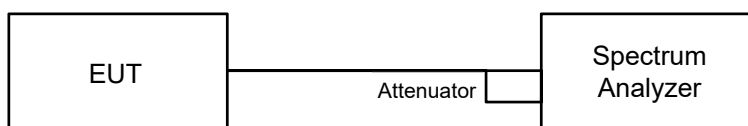
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement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

6.2 RF Output Power

6.2.1 Test Setup



For channel straddling:



6.2.2 Test Procedure

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

For channel straddling:

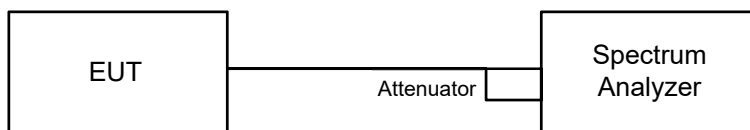
Method SA-1

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

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

6.3 Power Spectral Density

6.3.1 Test Setup



6.3.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

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

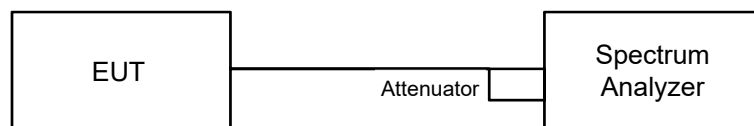
For specified measurement bandwidth 500 kHz:

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

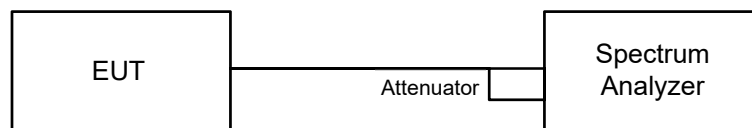


6.4.2 Test Procedure

- 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

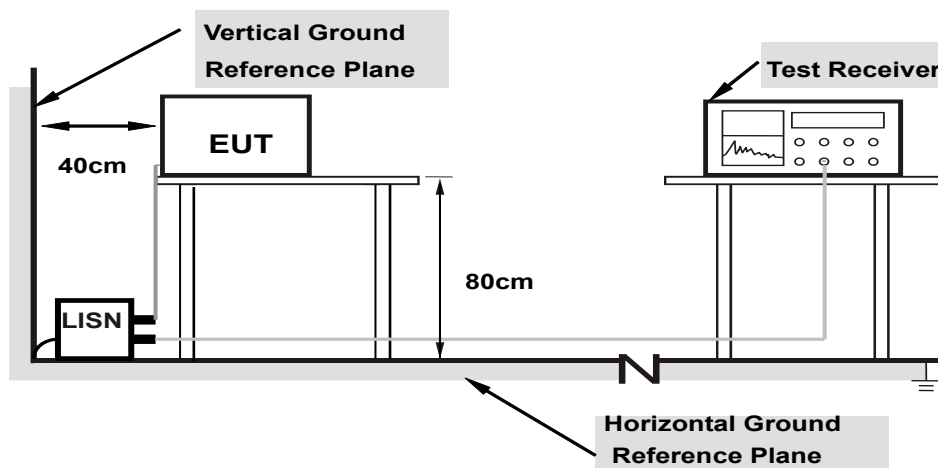


6.5.2 Test Procedure

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 AC Power Conducted Emissions

6.6.1 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).

6.6.2 Test Procedure

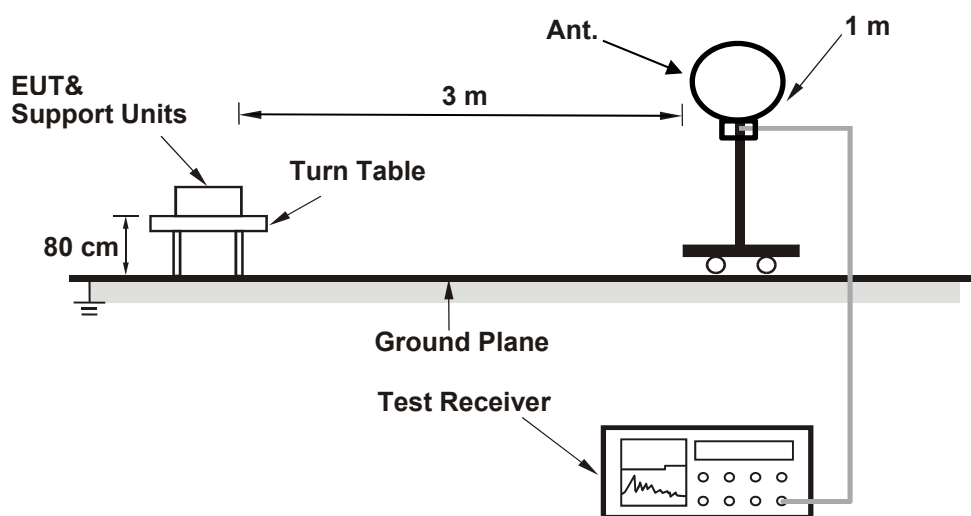
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

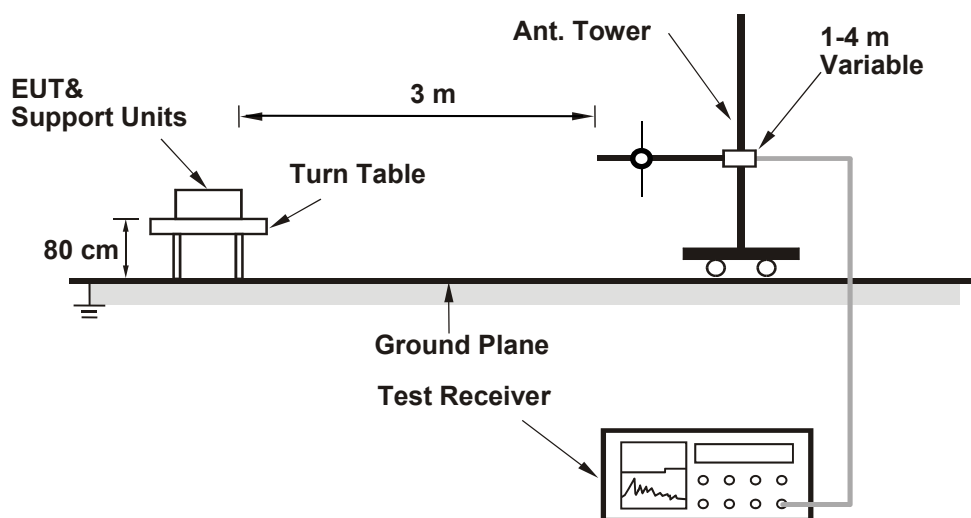
6.7 Unwanted Emissions below 1 GHz

6.7.1 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).

6.7.2 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

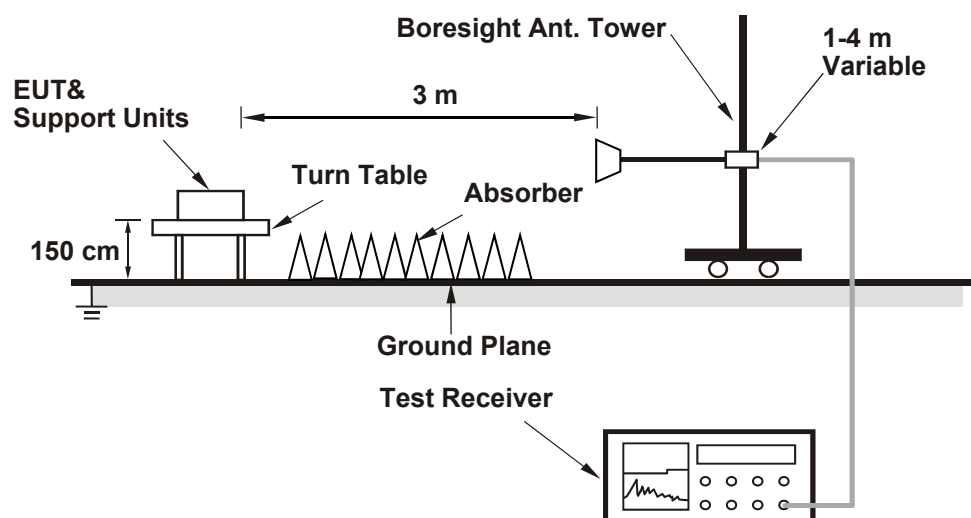
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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.

6.8 Unwanted Emissions above 1 GHz

6.8.1 Test Setup



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

6.8.2 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:	Gary Lin
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802.11a

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	21.83	21.45
60	5300	21.80	21.33
64	5320	21.98	21.42
100	5500	21.82	21.39
116	5580	21.51	21.38
140	5700	21.95	21.42
144 (U-NII-2C)	5720	16.11	15.77
144 (U-NII-3)	5720	5.62	5.69

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	21.45	24.31 > 24
60	5300	21.33	24.28 > 24
64	5320	21.42	24.30 > 24
100	5500	21.39	24.30 > 24
116	5580	21.38	24.30 > 24
140	5700	21.42	24.30 > 24
144 (U-NII-2C)	5720	15.77	22.97 < 24

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

802.11ax (HE20)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	21.67	21.48
60	5300	21.80	21.35
64	5320	21.81	21.28
100	5500	21.76	21.33
116	5580	21.67	21.30
140	5700	21.73	21.39
144 (U-NII-2C)	5720	15.81	15.75
144 (U-NII-3)	5720	5.86	5.65

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
52	5260	21.48	24.32 > 24
60	5300	21.35	24.29 > 24
64	5320	21.28	24.27 > 24
100	5500	21.33	24.28 > 24
116	5580	21.30	24.28 > 24
140	5700	21.39	24.30 > 24
144 (U-NII-2C)	5720	15.75	22.97 < 24

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

802.11ax (HE40)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	40.35	39.77
62	5310	40.24	39.73
102	5510	40.43	39.77
110	5550	40.49	39.74
134	5670	40.42	39.80
142 (U-NII-2C)	5710	35.21	34.86
142 (U-NII-3)	5710	5.13	4.77

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
54	5270	39.77	26.99 > 24
62	5310	39.73	26.99 > 24
102	5510	39.77	26.99 > 24
110	5550	39.74	26.99 > 24
134	5670	39.80	26.99 > 24
142 (U-NII-2C)	5710	34.86	26.42 > 24

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

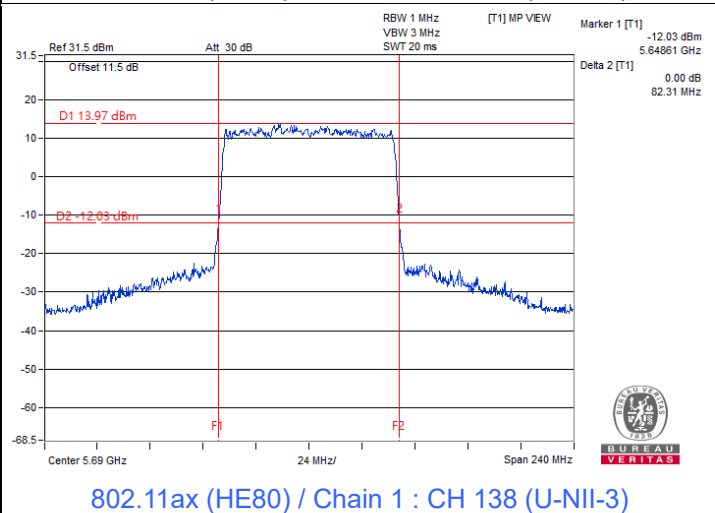
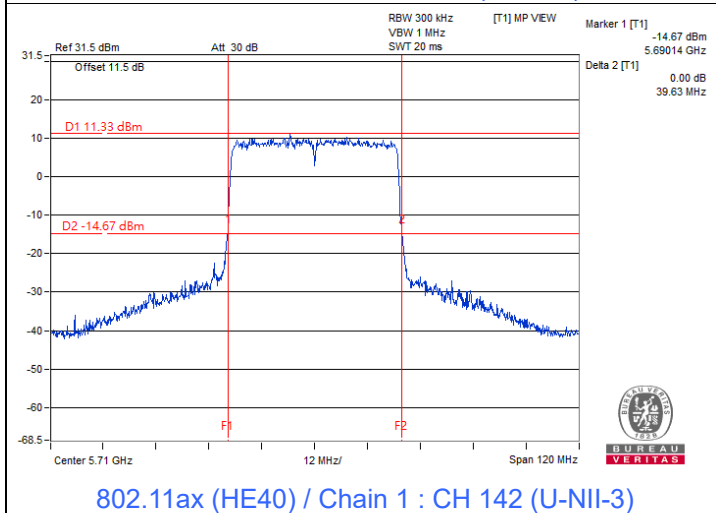
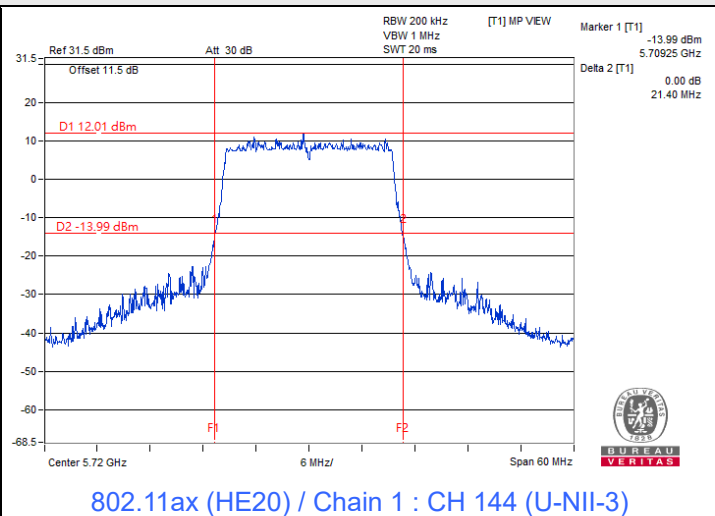
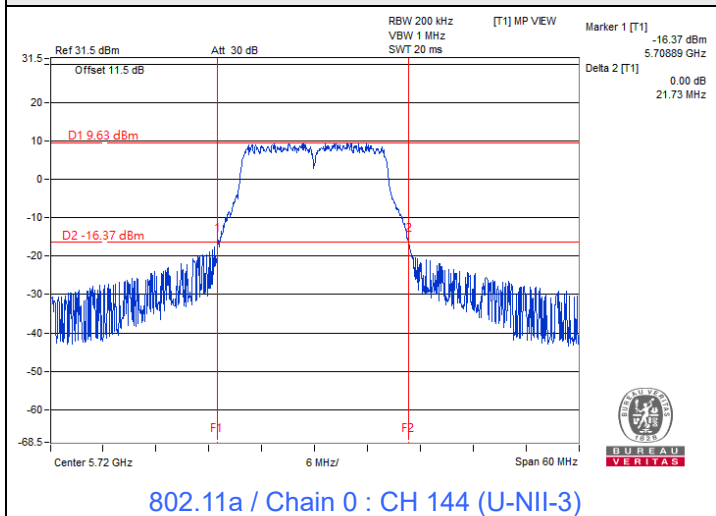
802.11ax (HE80)

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	81.97	82.48
106	5530	82.49	82.70
122	5610	82.18	82.08
138 (U-NII-2C)	5690	76.21	76.39
138 (U-NII-3)	5690	6.17	5.92

Determined Output Power Limit			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Power Limit (dBm)
58	5290	81.97	30.13 > 24
106	5530	82.49	30.16 > 24
122	5610	82.08	30.14 > 24
138 (U-NII-2C)	5690	76.21	29.82 > 24

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

Spectrum Plot of Minimum Value



Notes:

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

7.2 RF Output Power

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

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	23.84	23.66	474.377	26.76	30	Pass
40	5200	24.69	24.51	576.930	27.61	30	Pass
48	5240	24.52	24.34	554.783	27.44	30	Pass
52	5260	20.29	20.11	209.471	23.21	24	Pass
60	5300	20.20	20.03	205.406	23.13	24	Pass
64	5320	20.16	19.98	203.293	23.08	24	Pass
100	5500	20.09	19.92	200.269	23.02	24	Pass
116	5580	20.26	20.07	207.794	23.18	24	Pass
140	5700	20.29	20.11	209.471	23.21	24	Pass
*144 (U-NII-2C)	5720	18.72	18.59	146.750	21.67	22.97	Pass
*144 (U-NII-3)	5720	12.56	12.34	35.170	15.46	30	Pass
149	5745	24.41	24.24	541.518	27.34	30	Pass
157	5785	24.46	24.29	547.789	27.39	30	Pass
165	5825	24.48	24.31	550.317	27.41	30	Pass

Notes:

- * : Test was performed in accordance with measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.
- Directional gain is the maximum gain of antennas.
- For U-NII-1, the maximum gain is 4.97 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.71 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 5.37 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.87 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	22.43	22.29	344.418	25.37	30	Pass
40	5200	24.85	24.68	599.257	27.78	30	Pass
48	5240	24.66	24.48	572.959	27.58	30	Pass
52	5260	20.18	20.01	204.462	23.11	24	Pass
60	5300	20.12	19.96	201.885	23.05	24	Pass
64	5320	20.18	20.00	204.232	23.10	24	Pass
100	5500	20.27	20.11	208.979	23.20	24	Pass
116	5580	20.10	19.92	200.504	23.02	24	Pass
140	5700	20.37	20.02	209.355	23.21	24	Pass
*144 (U-NII-2C)	5720	18.99	18.71	153.552	21.86	22.97	Pass
*144 (U-NII-3)	5720	13.88	13.55	47.081	16.73	30	Pass
149	5745	24.81	24.63	593.094	27.73	30	Pass
157	5785	24.82	24.65	595.132	27.75	30	Pass
165	5825	24.90	24.72	605.513	27.82	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 4.97 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.71 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 5.37 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.87 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	20.73	20.55	231.805	23.65	30	Pass
46	5230	25.26	25.08	657.844	28.18	30	Pass
54	5270	20.29	20.08	208.765	23.20	24	Pass
62	5310	19.62	19.46	179.930	22.55	24	Pass
102	5510	19.88	19.63	189.108	22.77	24	Pass
110	5550	20.20	20.03	205.406	23.13	24	Pass
134	5670	20.12	19.95	201.657	23.05	24	Pass
*142 (U-NII-2C)	5710	19.71	19.51	182.871	22.62	24	Pass
*142 (U-NII-3)	5710	10.20	9.58	19.549	12.91	30	Pass
151	5755	24.98	24.81	617.466	27.91	30	Pass
159	5795	25.09	24.92	633.305	28.02	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 4.97 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.71 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 5.37 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.87 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	19.81	19.63	187.553	22.73	30	Pass
58	5290	18.95	18.79	154.207	21.88	24	Pass
106	5530	18.43	18.39	138.687	21.42	24	Pass
122	5610	20.09	19.91	200.043	23.01	24	Pass
*138 (U-NII-2C)	5690	19.82	19.73	189.912	22.79	24	Pass
*138 (U-NII-3)	5690	6.85	6.08	8.897	9.49	30	Pass
155	5775	23.37	23.20	426.200	26.30	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 4.97 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the maximum gain is 4.71 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the maximum gain is 5.37 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-3, the maximum gain is 4.87 dBi $\leq$ 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	22.43	22.29	344.418	25.37	30	Pass
40	5200	24.85	24.68	599.257	27.78	30	Pass
48	5240	24.66	24.48	572.959	27.58	30	Pass
52	5260	20.18	20.01	204.462	23.11	24	Pass
60	5300	20.12	19.96	201.885	23.05	24	Pass
64	5320	20.18	20.00	204.232	23.10	24	Pass
100	5500	20.27	20.11	208.979	23.20	23.92	Pass
116	5580	20.10	19.92	200.504	23.02	23.92	Pass
140	5700	20.37	20.02	209.355	23.21	23.92	Pass
*144 (U-NII-2C)	5720	18.99	18.71	153.552	21.86	22.89	Pass
*144 (U-NII-3)	5720	13.88	13.55	47.081	16.73	30	Pass
149	5745	24.81	24.63	593.094	27.73	30	Pass
157	5785	24.82	24.65	595.132	27.75	30	Pass
165	5825	24.90	24.72	605.513	27.82	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 measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 4.32 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.51 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 6.08 dBi $>$ 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.08-6)].
- For U-NII-3, the directional gain is 5.53 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

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	20.73	20.55	231.805	23.65	30	Pass
46	5230	25.26	25.08	657.844	28.18	30	Pass
54	5270	20.29	20.08	208.765	23.20	24	Pass
62	5310	19.62	19.46	179.930	22.55	24	Pass
102	5510	19.88	19.63	189.108	22.77	23.92	Pass
110	5550	20.20	20.03	205.406	23.13	23.92	Pass
134	5670	20.12	19.95	201.657	23.05	23.92	Pass
*142 (U-NII-2C)	5710	19.71	19.51	182.871	22.62	23.92	Pass
*142 (U-NII-3)	5710	10.20	9.58	19.549	12.91	30	Pass
151	5755	24.98	24.81	617.466	27.91	30	Pass
159	5795	25.09	24.92	633.305	28.02	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 measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 4.32 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.51 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 6.08 dBi $>$ 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.08-6)].
- For U-NII-3, the directional gain is 5.53 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

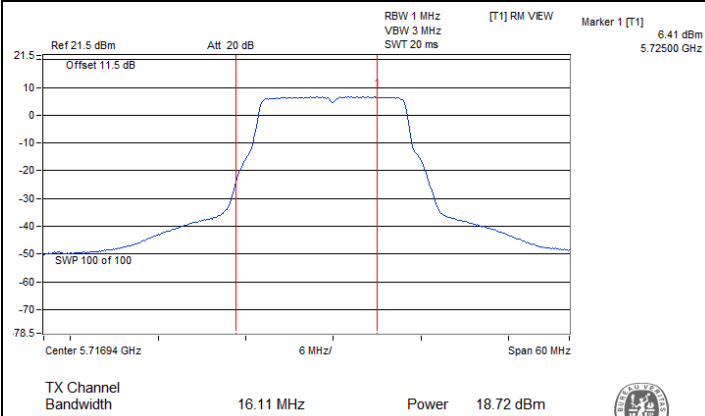
802.11ax (HE80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	19.81	19.63	187.553	22.73	30	Pass
58	5290	18.95	18.79	154.207	21.88	24	Pass
106	5530	18.43	18.39	138.687	21.42	23.92	Pass
122	5610	20.09	19.91	200.043	23.01	23.92	Pass
*138 (U-NII-2C)	5690	19.82	19.73	189.912	22.79	23.92	Pass
*138 (U-NII-3)	5690	6.85	6.08	8.897	9.49	30	Pass
155	5775	23.37	23.20	426.200	26.30	30	Pass

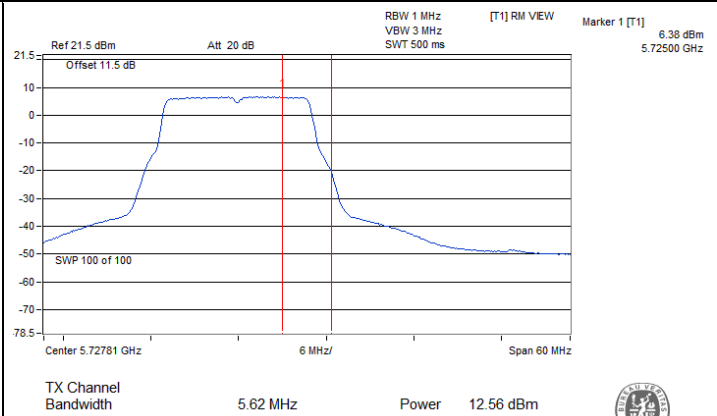
Notes:

- * : 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 measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 4.32 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2A, the directional gain is 4.51 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
- For U-NII-2C, the directional gain is 6.08 dBi $>$ 6 dBi, so the output power limit shall be reduced to [Determined Conducted Power Limit-(6.08-6)].
- For U-NII-3, the directional gain is 5.53 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

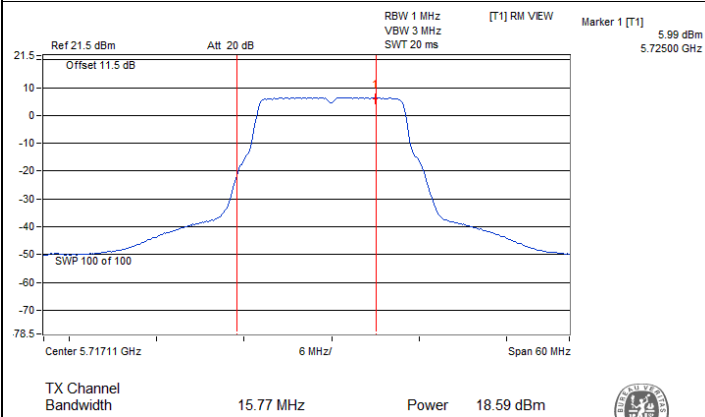
Spectrum Plot for channel straddling



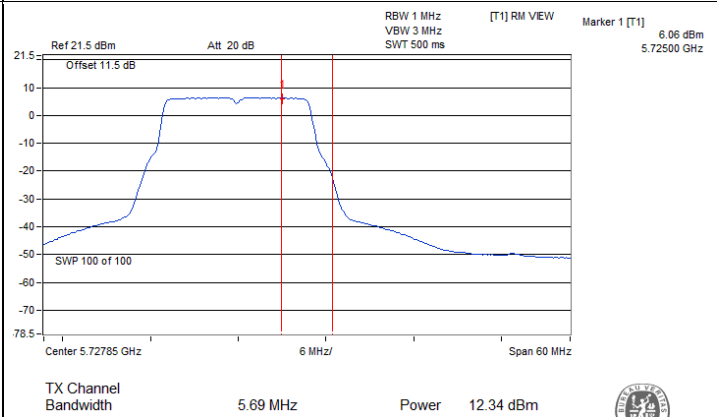
802.11a / Chain 0 : CH 144 (U-NII-2C)



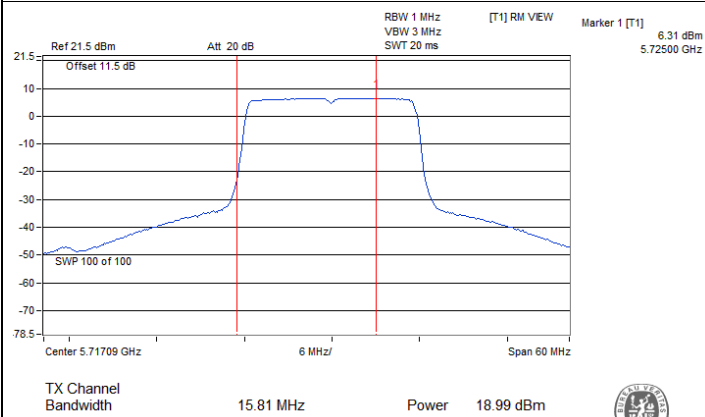
802.11a / Chain 0 : CH 144 (U-NII-3)



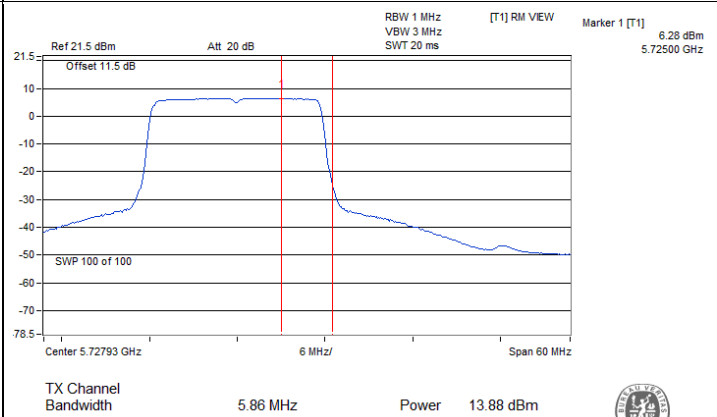
802.11a / Chain 1 : CH 144 (U-NII-2C)



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

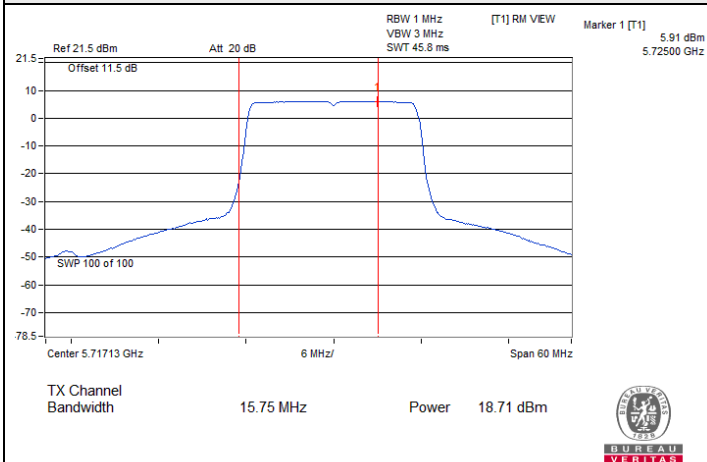


802.11ax (HE20) / Chain 0 : CH 144 (U-NII-2C)

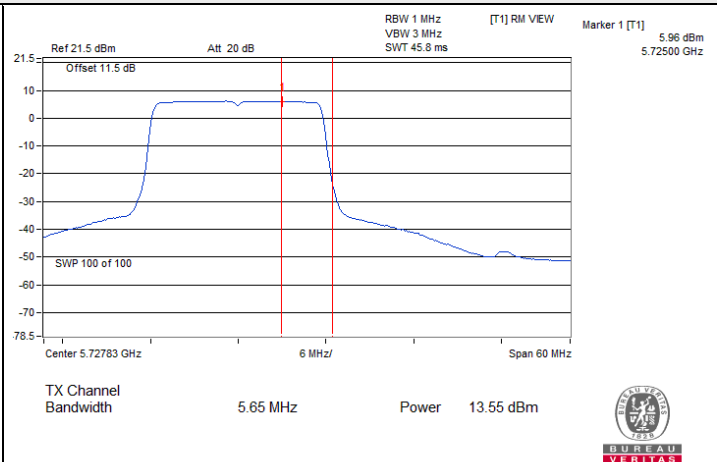


802.11ax (HE20) / Chain 0 : CH 144 (U-NII-3)

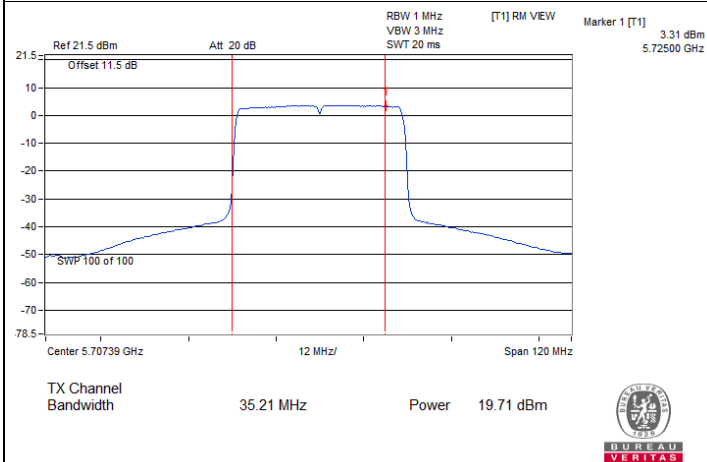
Spectrum Plot for channel straddling



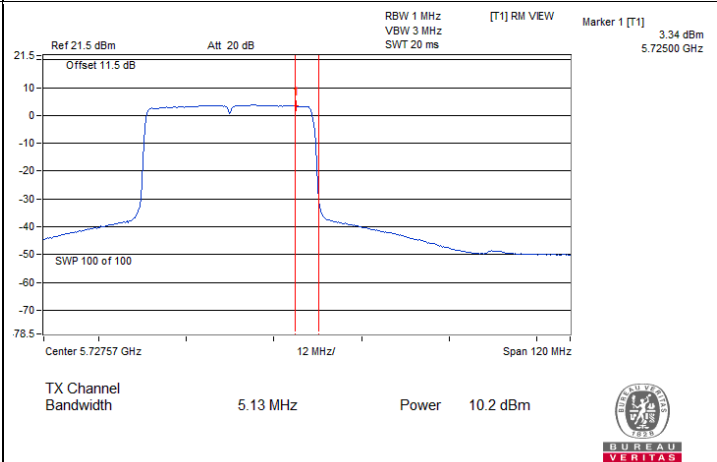
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-2C)



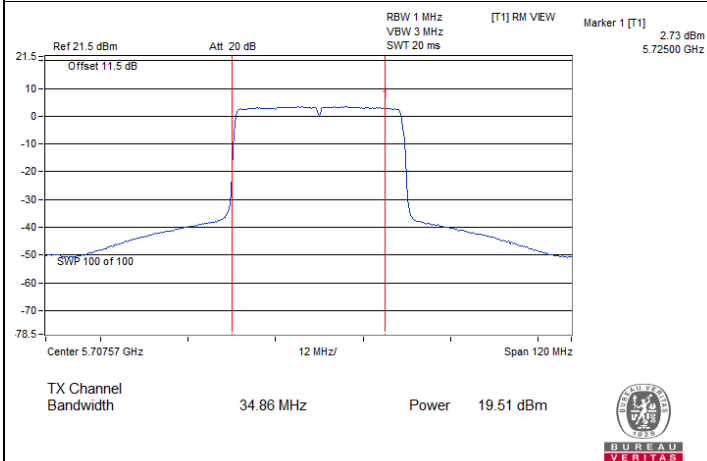
802.11ax (HE20) / Chain 1 : CH 144 (U-NII-3)



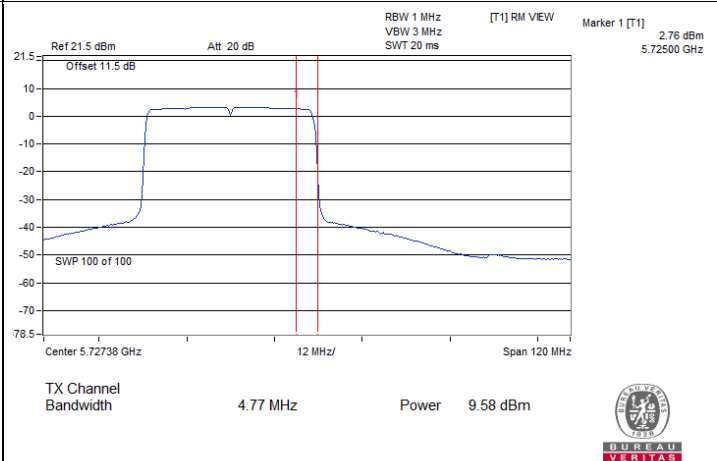
802.11ax (HE40) / Chain 0 : CH 142 (U-NII-2C)



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

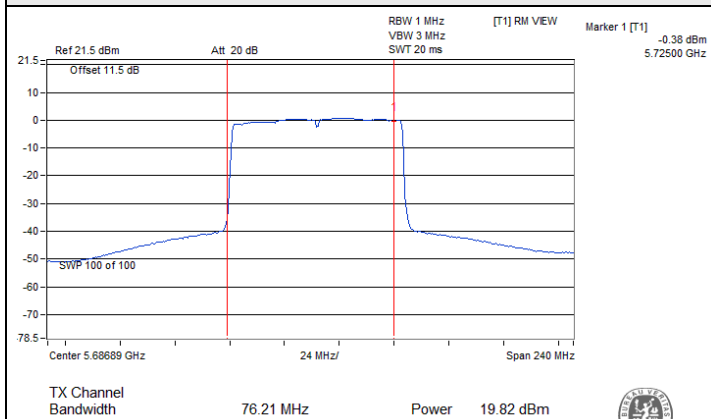


802.11ax (HE40) / Chain 1 : CH 142 (U-NII-2C)

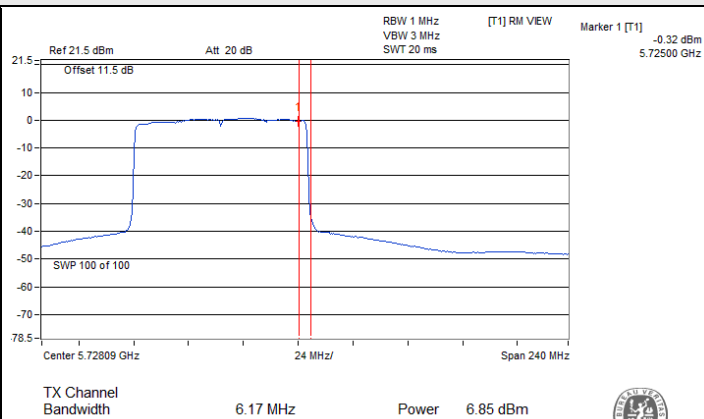


802.11ax (HE40) / Chain 1 : CH 142 (U-NII-3)

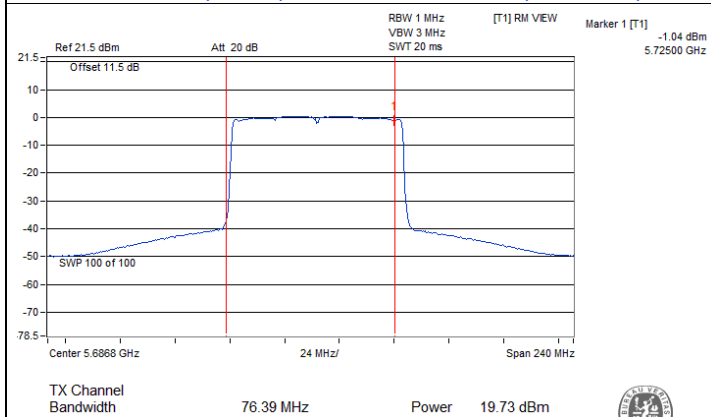
Spectrum Plot for channel straddling



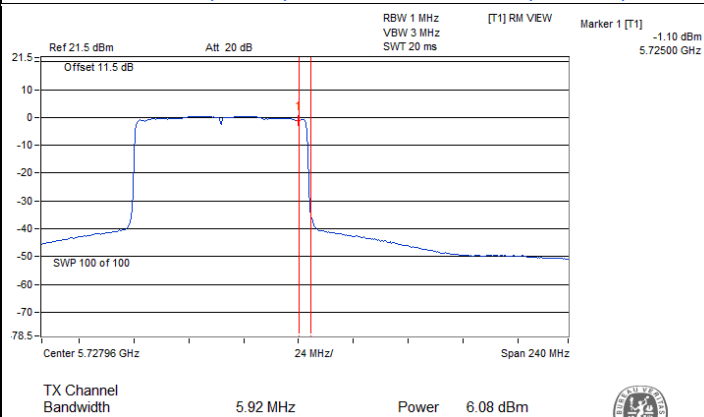
802.11ax (HE80) / Chain 0 : CH 138 (U-NII-2C)



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



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



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

7.3 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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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	10.46	10.56	13.52	17	Pass
40	5200	11.23	11.29	14.27	17	Pass
48	5240	10.96	10.99	13.99	17	Pass
52	5260	8.04	7.73	10.90	11	Pass
60	5300	7.26	7.25	10.27	11	Pass
64	5320	6.94	6.93	9.95	11	Pass
100	5500	6.84	6.73	9.80	10.92	Pass
116	5580	7.12	7.17	10.16	10.92	Pass
140	5700	6.81	6.30	9.57	10.92	Pass
144 (U-NII-2C)	5720	6.85	6.23	9.56	10.92	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 4.32 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 4.51 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 6.08 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.08 - 6) = 10.92$ dBm/MHz.

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	8.68	8.72	11.71	17	Pass
40	5200	10.76	10.91	13.85	17	Pass
48	5240	10.52	10.59	13.57	17	Pass
52	5260	6.28	6.51	9.41	11	Pass
60	5300	6.23	6.30	9.28	11	Pass
64	5320	6.28	6.31	9.31	11	Pass
100	5500	6.55	6.28	9.43	10.92	Pass
116	5580	6.41	6.23	9.33	10.92	Pass
140	5700	5.85	5.44	8.66	10.92	Pass
144 (U-NII-2C)	5720	6.74	6.09	9.44	10.92	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 4.32 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 4.51 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 6.08 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.08 - 6) = 10.92$ dBm/MHz.

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	4.21	3.99	7.11	17	Pass
46	5230	8.79	8.50	11.66	17	Pass
54	5270	3.43	3.42	6.44	11	Pass
62	5310	2.64	2.55	5.61	11	Pass
102	5510	3.25	3.14	6.21	10.92	Pass
110	5550	3.56	3.57	6.58	10.92	Pass
134	5670	3.35	3.16	6.27	10.92	Pass
142 (U-NII-2C)	5710	3.55	3.34	6.46	10.92	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 4.32 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 4.51 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 6.08 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.08 - 6) = 10.92$ dBm/MHz.

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	0.74	0.89	3.83	17	Pass
58	5290	-0.90	-0.61	2.26	11	Pass
106	5530	-1.10	-1.02	1.95	10.92	Pass
122	5610	0.59	0.62	3.62	10.92	Pass
138 (U-NII-2C)	5690	0.66	0.34	3.51	10.92	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 4.32 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
4. For U-NII-2A, the directional gain is 4.51 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.
5. For U-NII-2C, the directional gain is 6.08 dBi $>$ 6 dBi, so the power density limit shall be reduced to $11 - (6.08 - 6) = 10.92$ dBm/MHz.

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	-1.45	-2.22	1.19	3.41	30	Pass
149	5745	2.98	3.28	6.14	8.36	30	Pass
157	5785	3.09	3.32	6.22	8.44	30	Pass
165	5825	3.13	3.45	6.30	8.52	30	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 5.53 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
144 (U-NII-3)	5720	-2.17	-3.06	0.42	2.64	30	Pass
149	5745	2.03	2.09	5.07	7.29	30	Pass
157	5785	2.01	2.24	5.14	7.36	30	Pass
165	5825	2.23	2.52	5.39	7.61	30	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 5.53 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
142 (U-NII-3)	5710	-5.73	-5.97	-2.84	-0.62	30	Pass
151	5755	-0.60	-0.35	2.54	4.76	30	Pass
159	5795	-0.53	-0.32	2.59	4.81	30	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 5.53 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

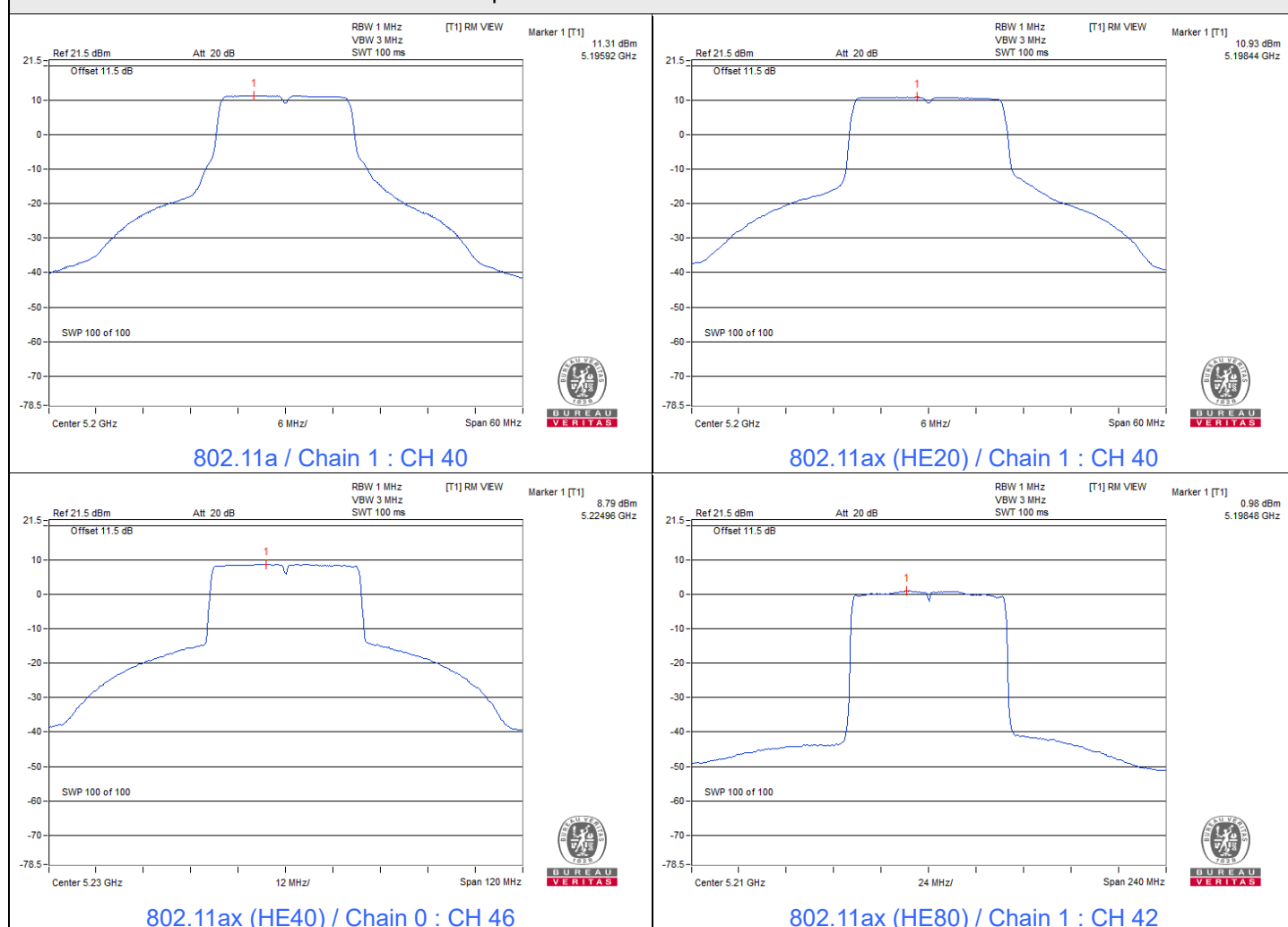
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
138 (U-NII-3)	5690	-9.08	-9.80	-6.41	-4.19	30	Pass
155	5775	-4.56	-4.54	-1.54	0.68	30	Pass

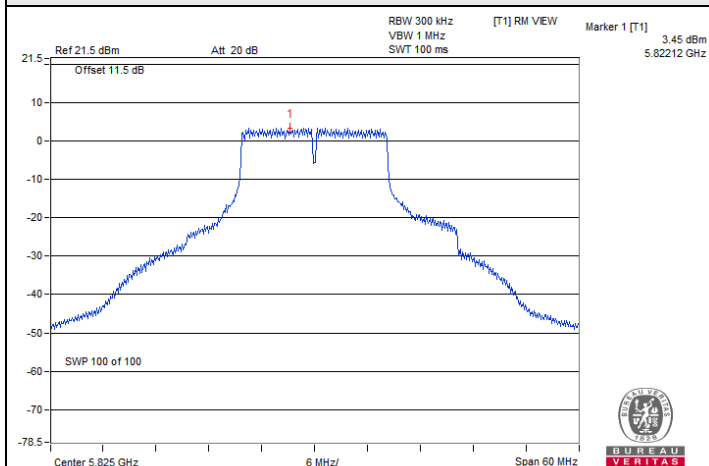
Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-3, the directional gain is 5.53 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

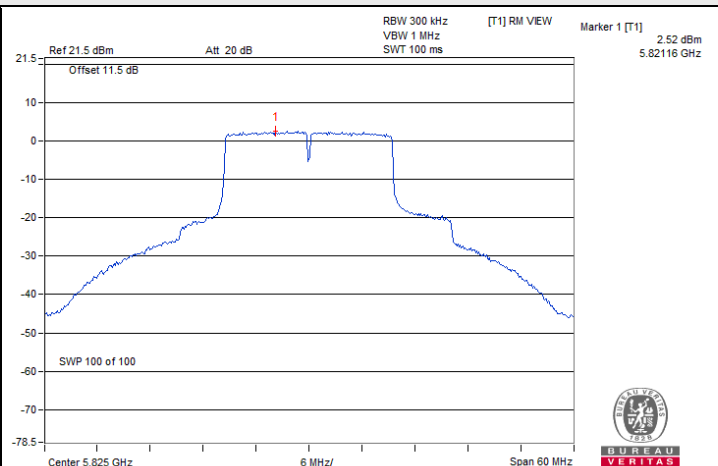
Spectrum Plot of Maximum Value



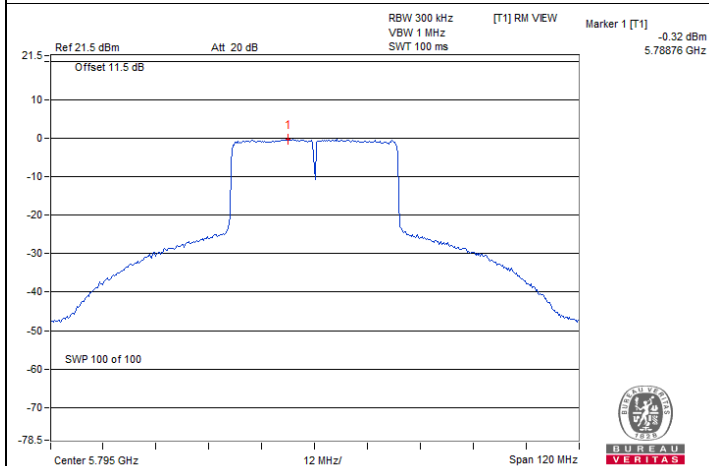
Spectrum Plot of Maximum Value



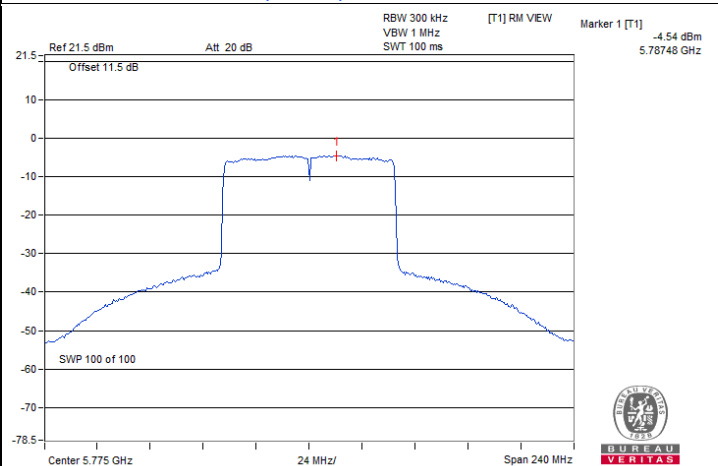
802.11a / Chain 1 : CH 165



802.11ax (HE20) / Chain 1 : CH 165



802.11ax (HE40) / Chain 1 : CH 159



802.11ax (HE80) / Chain 1 : CH 155

7.4 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Lin
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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	3.13	3.14	0.5	Pass
149	5745	16.50	16.48	0.5	Pass
157	5785	16.46	16.45	0.5	Pass
165	5825	16.47	16.51	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	4.47	0.5	Pass
149	5745	19.13	19.10	0.5	Pass
157	5785	19.16	19.11	0.5	Pass
165	5825	19.10	19.12	0.5	Pass

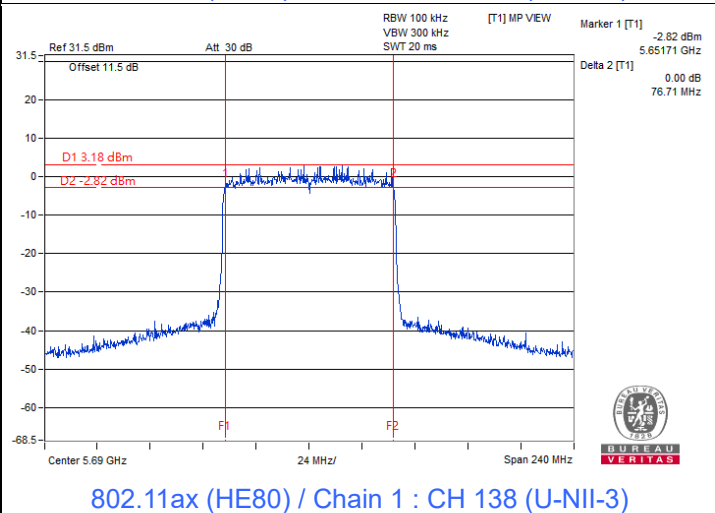
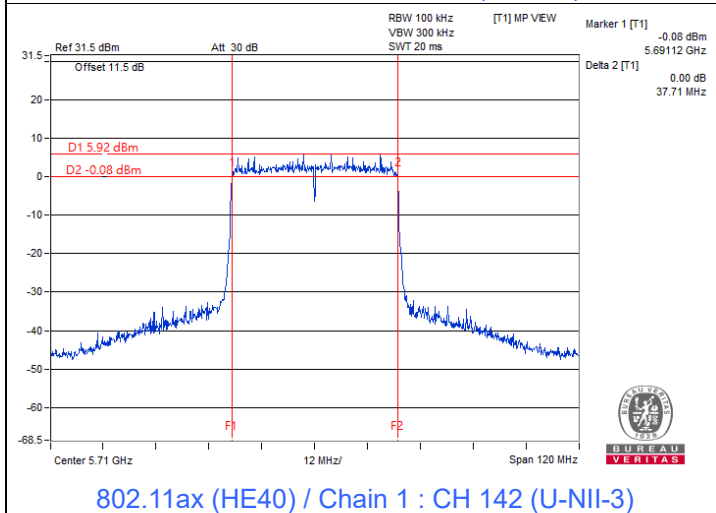
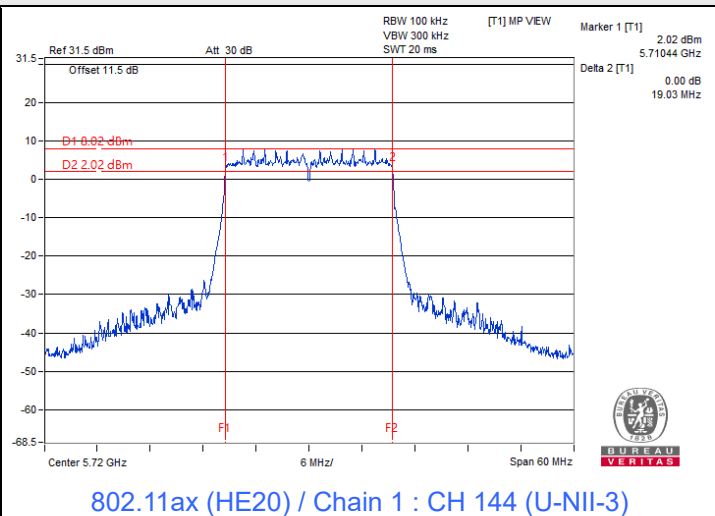
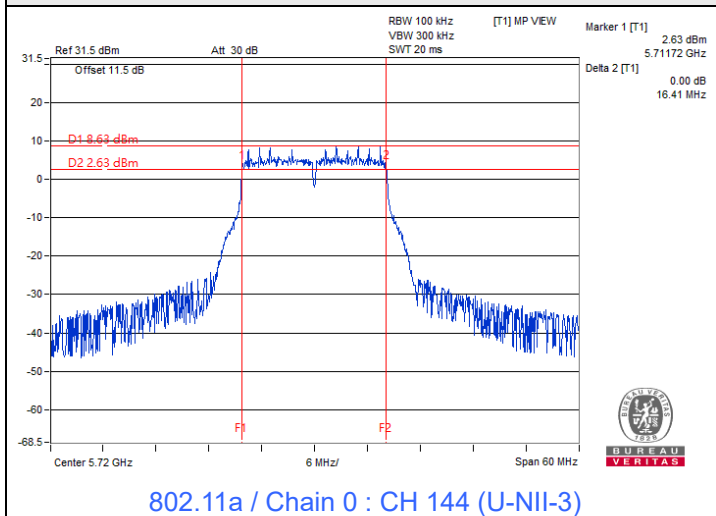
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
142 (U-NII-3)	5710	3.91	3.83	0.5	Pass
151	5755	37.94	37.79	0.5	Pass
159	5795	37.76	37.66	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	3.79	3.42	0.5	Pass
155	5775	77.51	77.09	0.5	Pass

Spectrum Plot of Minimum Value



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

7.5 Occupied Bandwidth

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

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.28	16.98
40	5200	17.58	17.22
48	5240	17.52	17.16
52	5260	17.22	16.86
60	5300	17.10	16.86
64	5320	17.10	16.86
100	5500	17.16	16.86
116	5580	17.16	16.86
140	5700	17.16	16.86
144 (U-NII-2C)	5720	13.64	13.52
144 (U-NII-3)	5720	3.52	3.28
149	5745	17.40	17.40
157	5785	17.52	17.40
165	5825	17.40	17.28

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.20	19.14
40	5200	19.38	19.32
48	5240	19.32	19.26
52	5260	19.14	19.20
60	5300	19.14	19.14
64	5320	19.14	19.08
100	5500	19.20	19.08
116	5580	19.14	19.14
140	5700	19.14	19.14
144 (U-NII-2C)	5720	14.72	14.72
144 (U-NII-3)	5720	4.48	4.48
149	5745	19.32	19.32
157	5785	19.32	19.32
165	5825	19.32	19.44

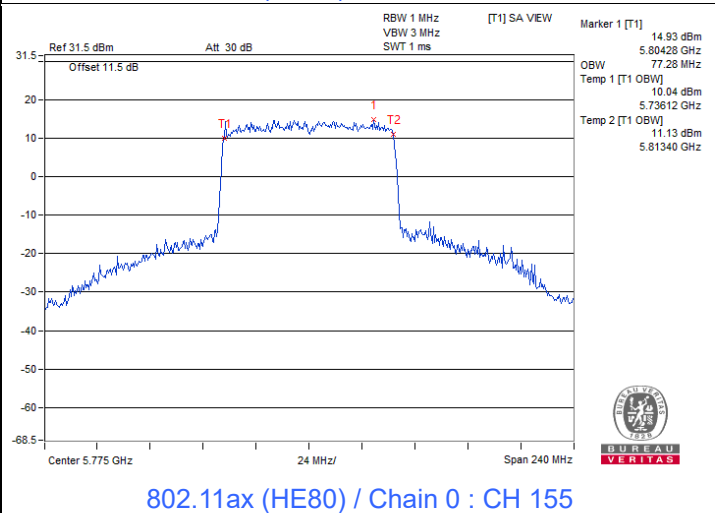
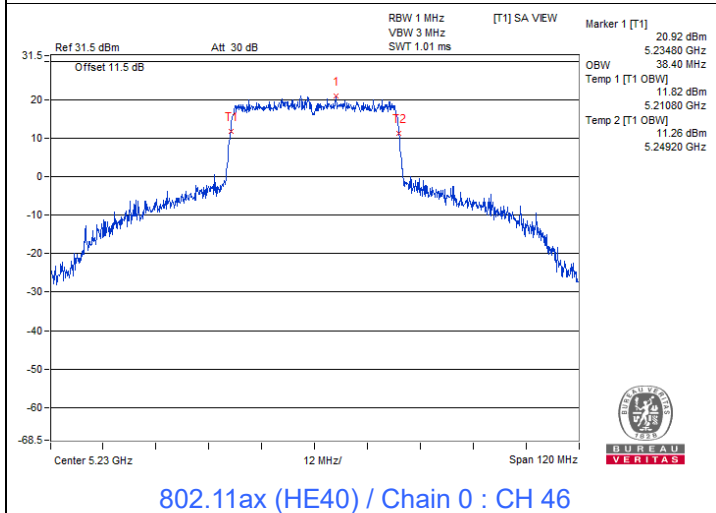
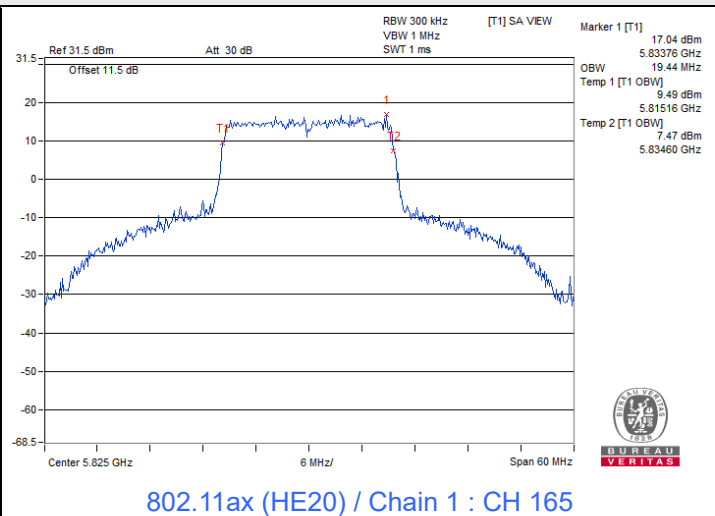
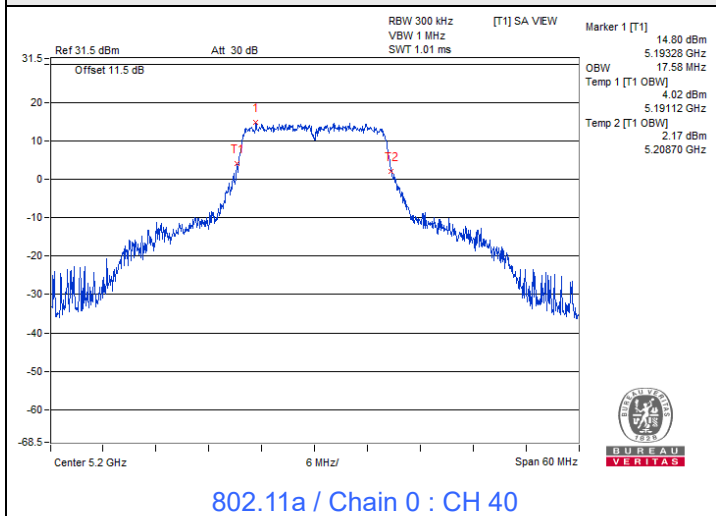
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	37.80	37.80
46	5230	38.40	38.16
54	5270	37.80	37.80
62	5310	37.68	37.68
102	5510	37.80	37.80
110	5550	37.80	37.80
134	5670	37.80	37.80
142 (U-NII-2C)	5710	33.96	33.96
142 (U-NII-3)	5710	3.72	3.72
151	5755	38.16	38.16
159	5795	38.16	38.16

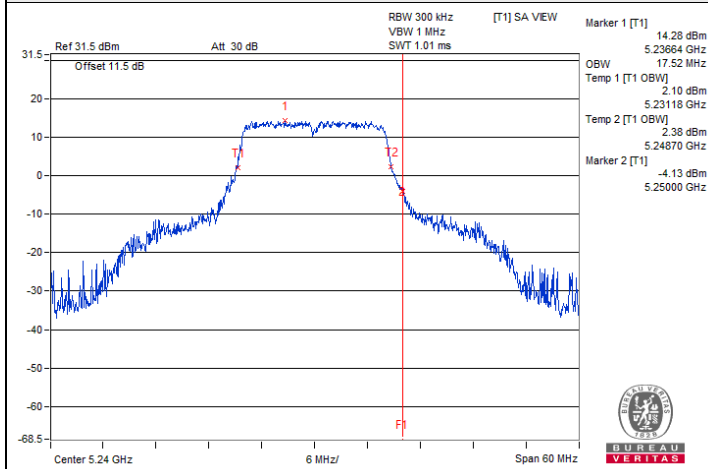
802.11ax (HE80)

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

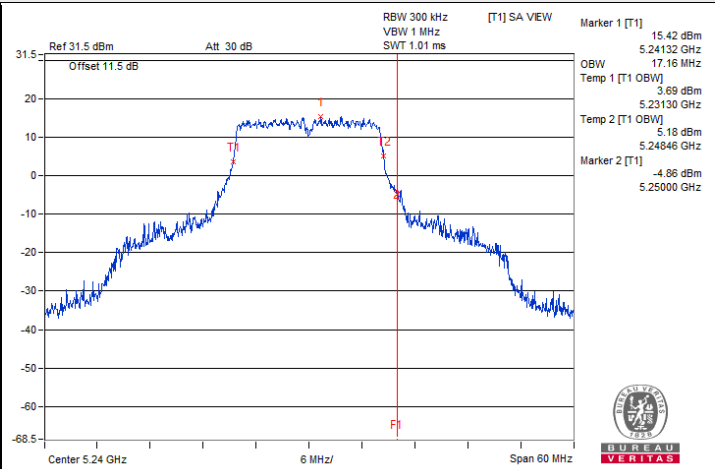
Spectrum Plot of Maximum Value



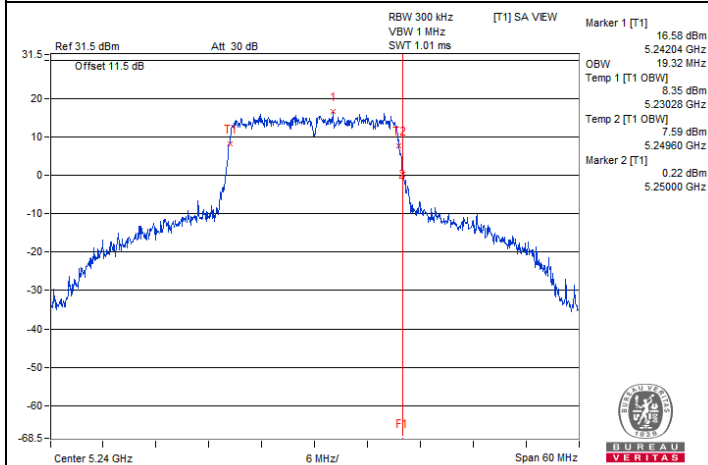
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



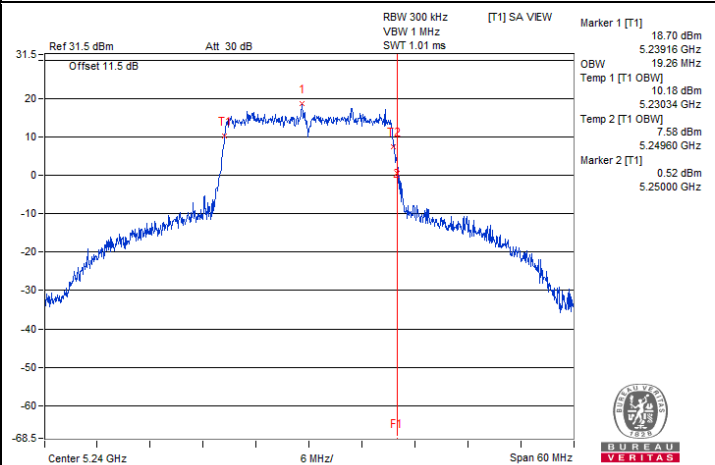
802.11a / Chain 0 : CH 48



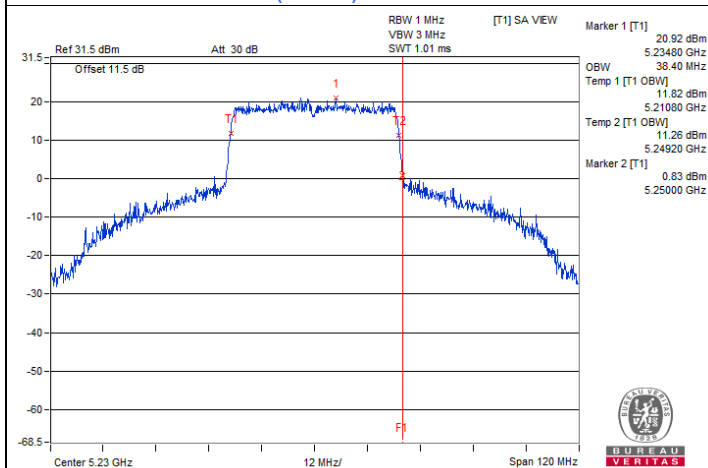
802.11a / Chain 1 : CH 48



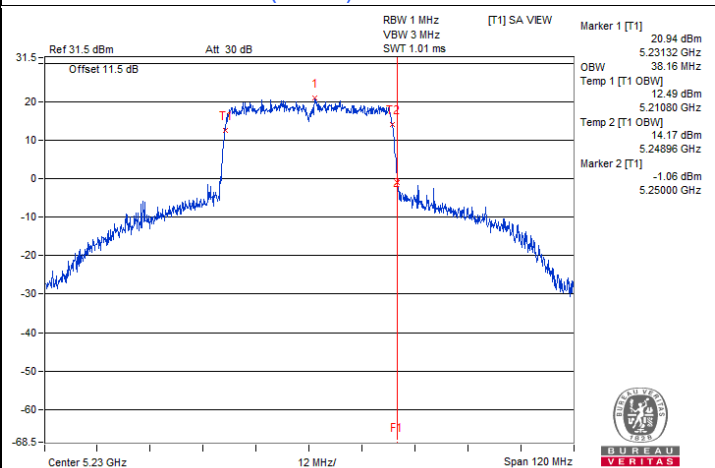
802.11ax (HE20) / Chain 0 : CH 48



802.11ax (HE20) / Chain 1 : CH 48

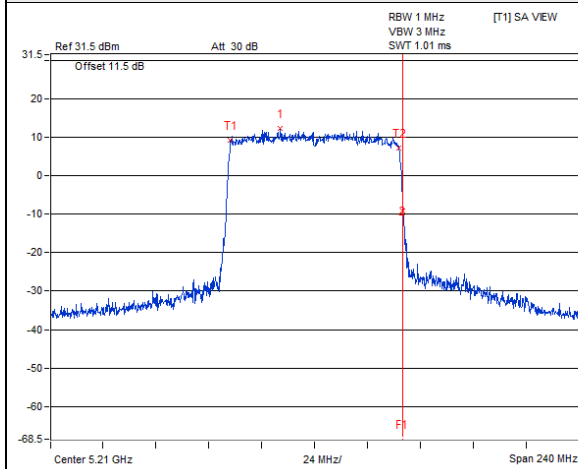


802.11ax (HE40) / Chain 0 : CH 46

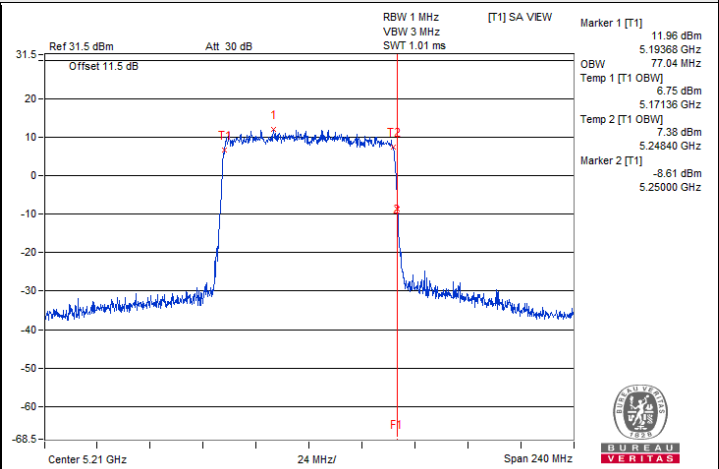


802.11ax (HE40) / Chain 1 : CH 46

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

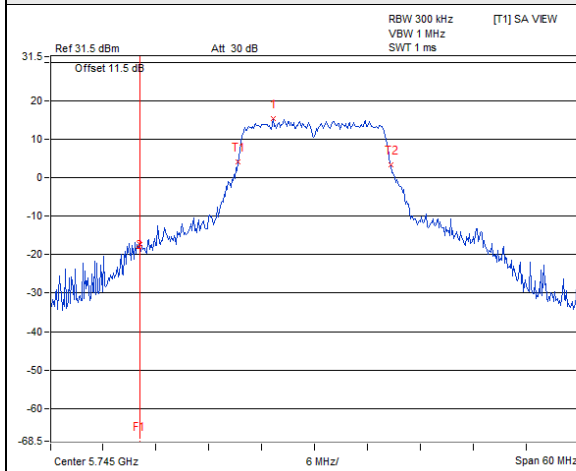


802.11ax (HE80) / Chain 0 : CH 42

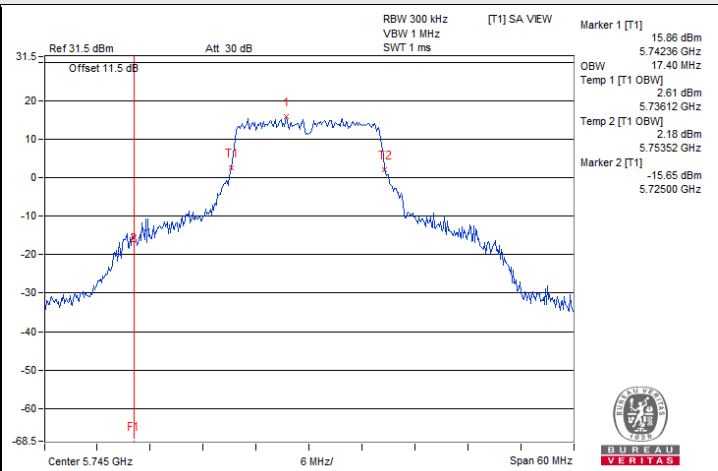


802.11ax (HE80) / Chain 1 : CH 42

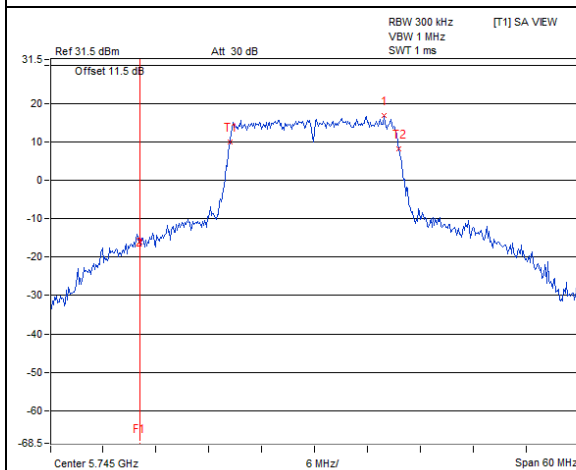
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



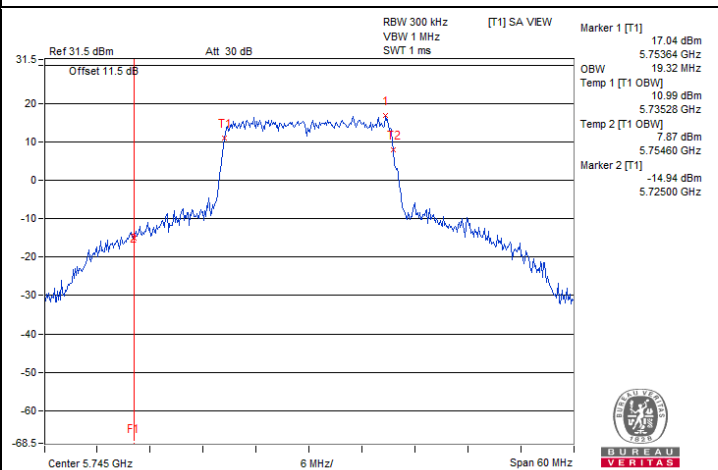
802.11a / Chain 0 : CH 149



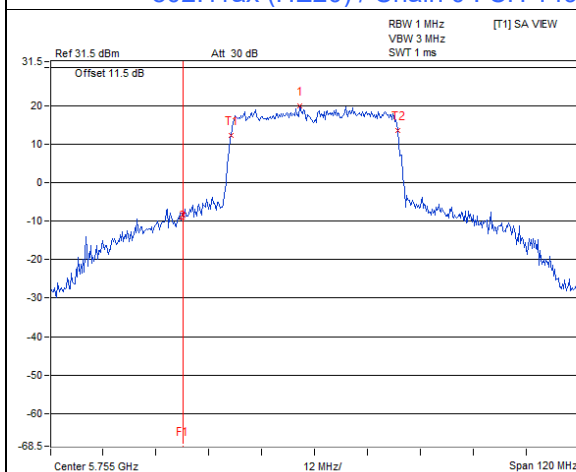
802.11a / Chain 1 : CH 149



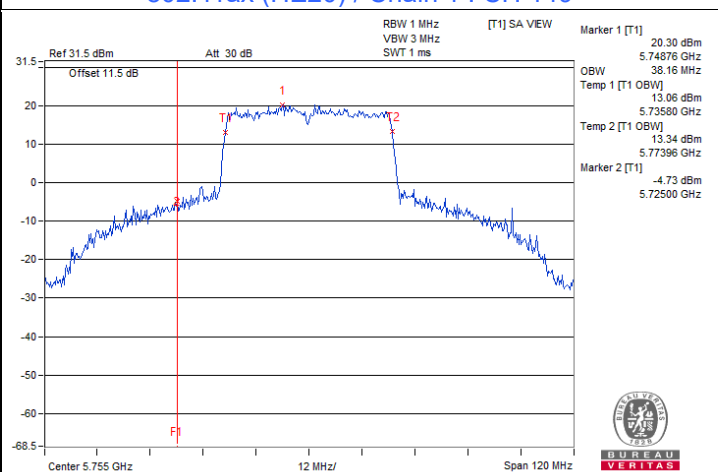
802.11ax (HE20) / Chain 0 : CH 149



802.11ax (HE20) / Chain 1 : CH 149

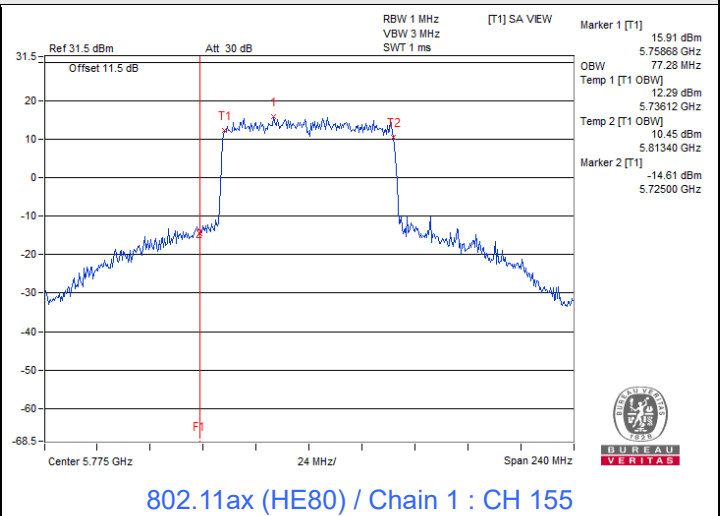
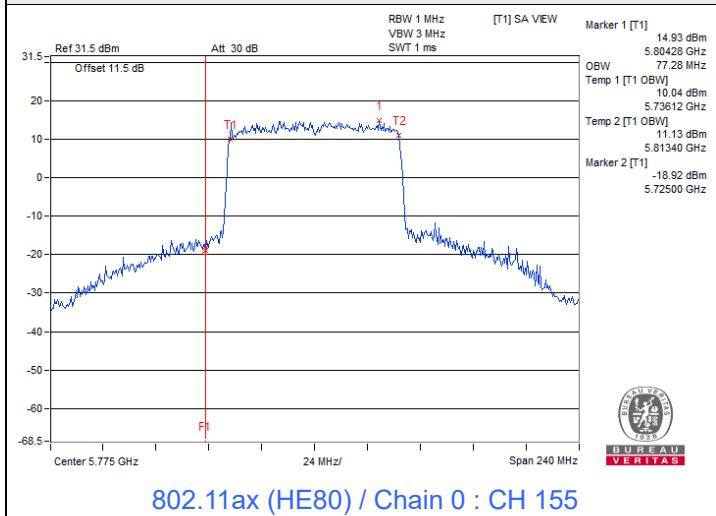


802.11ax (HE40) / Chain 0 : CH 151



802.11ax (HE40) / Chain 1 : CH 151

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



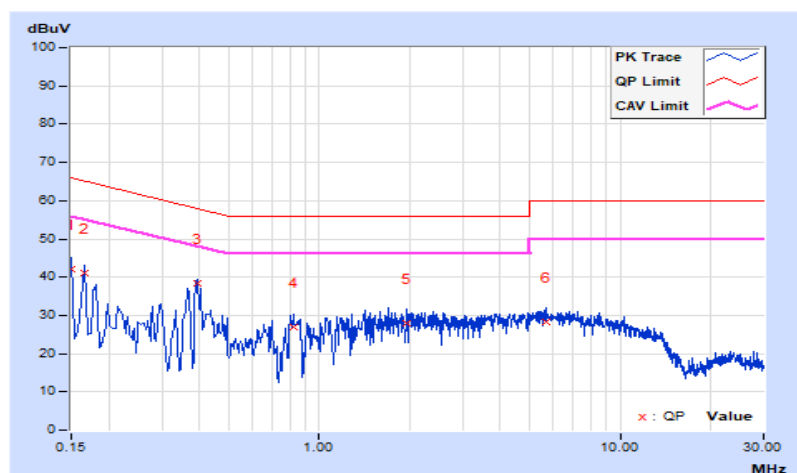
7.6 AC Power Conducted Emissions

RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 71% RH
Tested By	Thomas Cheng		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.29	31.77	14.08	42.06	24.37	66.00	56.00	-23.94	-31.63
2	0.16600	10.30	30.64	14.60	40.94	24.90	65.16	55.16	-24.22	-30.26
3	0.39342	10.36	28.15	21.76	38.51	32.12	57.99	47.99	-19.48	-15.87
4	0.81800	10.41	16.62	5.75	27.03	16.16	56.00	46.00	-28.97	-29.84
5	1.96200	10.51	17.52	6.80	28.03	17.31	56.00	46.00	-27.97	-28.69
6	5.69400	10.59	17.76	7.80	28.35	18.39	60.00	50.00	-31.65	-31.61

Remarks:

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

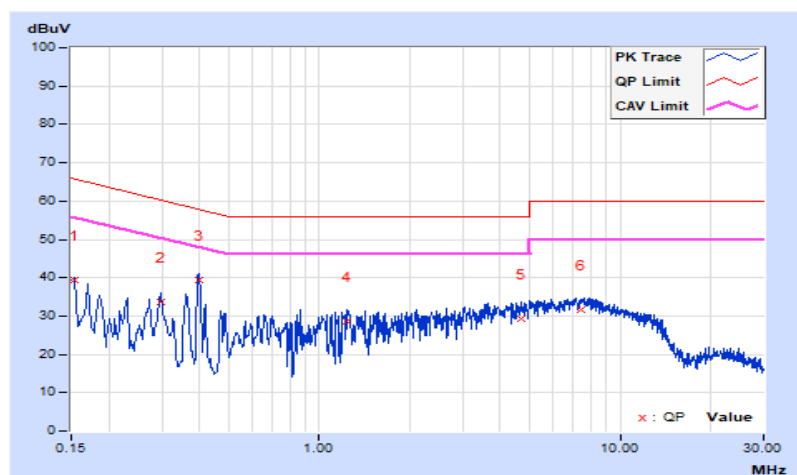


RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	22 °C, 71% RH
Tested By	Thomas Cheng		

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	10.34	29.15	16.12	39.49	26.46	65.78	55.78	-26.29	-29.32
2	0.29800	10.37	23.23	20.26	33.60	30.63	60.30	50.30	-26.70	-19.67
3	0.39759	10.39	29.07	22.30	39.46	32.69	57.90	47.90	-18.44	-15.21
4	1.24200	10.48	18.18	6.71	28.66	17.19	56.00	46.00	-27.34	-28.81
5	4.70600	10.64	18.71	8.74	29.35	19.38	56.00	46.00	-26.65	-26.62
6	7.38200	10.70	20.93	11.22	31.63	21.92	60.00	50.00	-28.37	-28.08

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



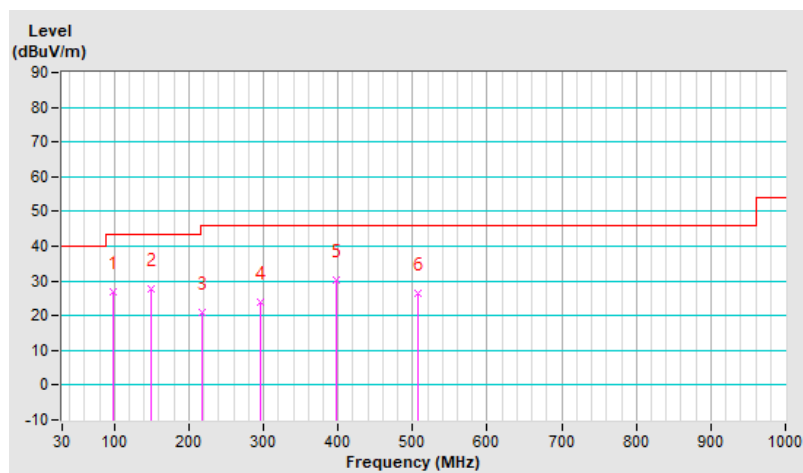
7.7 Unwanted Emissions below 1 GHz

RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	97.90	26.8 QP	43.5	-16.7	1.15 H	245	44.6	-17.8
2	148.34	27.9 QP	43.5	-15.6	1.72 H	105	40.5	-12.6
3	217.21	20.9 QP	46.0	-25.1	1.88 H	91	37.1	-16.2
4	296.75	23.8 QP	46.0	-22.2	2.53 H	104	36.1	-12.3
5	398.60	30.2 QP	46.0	-15.8	1.63 H	220	39.8	-9.6
6	506.27	26.3 QP	46.0	-19.7	1.49 H	26	33.5	-7.2

Remarks:

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

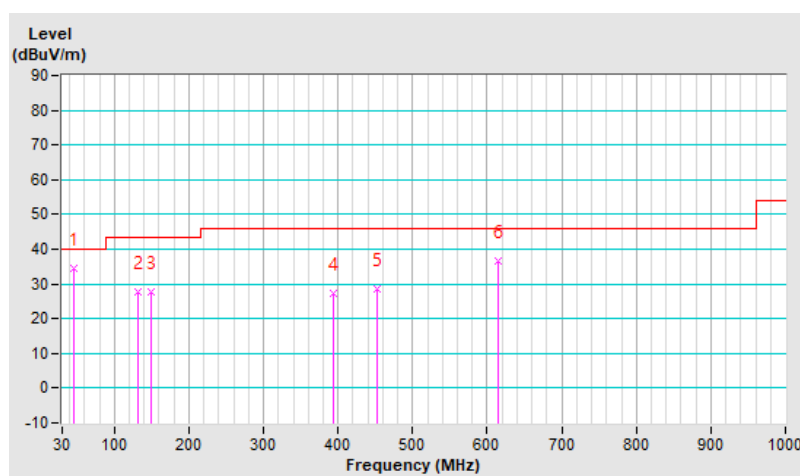


RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	46.49	34.4 QP	40.0	-5.6	1.50 V	127	47.4	-13.0
2	130.88	27.9 QP	43.5	-15.6	1.41 V	148	41.9	-14.0
3	148.34	27.6 QP	43.5	-15.9	2.32 V	160	40.2	-12.6
4	393.75	27.3 QP	46.0	-18.7	1.12 V	145	37.0	-9.7
5	452.92	28.5 QP	46.0	-17.5	1.94 V	201	36.4	-7.9
6	613.94	36.6 QP	46.0	-9.4	1.22 V	37	40.9	-4.3

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



7.8 Unwanted Emissions above 1 GHz

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	69.3 PK	74.0	-4.7	2.03 H	172	66.7	2.6
2	5150.00	51.7 AV	54.0	-2.3	2.03 H	172	49.1	2.6
3	*5180.00	117.3 PK			2.03 H	172	77.1	40.2
4	*5180.00	105.8 AV			2.03 H	172	65.6	40.2
5	#10360.00	57.8 PK	68.2	-10.4	2.00 H	292	49.0	8.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	70.0 PK	74.0	-4.0	1.48 V	318	67.4	2.6
2	5150.00	53.8 AV	54.0	-0.2	1.48 V	318	51.2	2.6
3	*5180.00	119.4 PK			1.48 V	318	79.2	40.2
4	*5180.00	108.0 AV			1.48 V	318	67.8	40.2
5	#10360.00	58.2 PK	68.2	-10.0	2.00 V	76	49.4	8.8

Remarks:

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

RF Mode	802.11a	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	5105.76	62.2 PK	74.0	-11.8	2.08 H	153	59.7	2.5
2	5105.76	50.4 AV	54.0	-3.6	2.08 H	153	47.9	2.5
3	*5200.00	116.7 PK			2.08 H	153	76.5	40.2
4	*5200.00	106.2 AV			2.08 H	153	66.0	40.2
5	#10400.00	58.1 PK	68.2	-10.1	2.00 H	274	49.2	8.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5104.80	64.4 PK	74.0	-9.6	1.48 V	326	61.9	2.5
2	5104.80	52.4 AV	54.0	-1.6	1.48 V	326	49.9	2.5
3	*5200.00	119.6 PK			1.48 V	326	79.4	40.2
4	*5200.00	108.5 AV			1.48 V	326	68.3	40.2
5	#10400.00	58.4 PK	68.2	-9.8	2.00 V	81	49.5	8.9

Remarks:

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

RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	5147.04	62.5 PK	74.0	-11.5	2.11 H	152	59.9	2.6
2	5147.04	50.8 AV	54.0	-3.2	2.11 H	152	48.2	2.6
3	*5240.00	117.9 PK			2.11 H	152	77.8	40.1
4	*5240.00	106.5 AV			2.11 H	152	66.4	40.1
5	5350.00	60.4 PK	74.0	-13.6	2.11 H	152	58.1	2.3
6	5350.00	47.0 AV	54.0	-7.0	2.11 H	152	44.7	2.3
7	#10480.00	58.5 PK	68.2	-9.7	1.93 H	276	49.5	9.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.2 PK	74.0	-9.8	1.48 V	317	61.6	2.6
2	5150.00	52.5 AV	54.0	-1.5	1.48 V	317	49.9	2.6
3	*5240.00	120.6 PK			1.48 V	317	80.5	40.1
4	*5240.00	109.1 AV			1.48 V	317	69.0	40.1
5	5350.00	61.9 PK	74.0	-12.1	1.48 V	317	59.6	2.3
6	5350.00	48.2 AV	54.0	-5.8	1.48 V	317	45.9	2.3
7	#10480.00	58.7 PK	68.2	-9.5	2.02 V	82	49.7	9.0

Remarks:

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

RF Mode	802.11a	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	62.0 PK	74.0	-12.0	2.23 H	154	59.4	2.6
2	5150.00	48.4 AV	54.0	-5.6	2.23 H	154	45.8	2.6
3	*5260.00	118.6 PK			2.23 H	154	78.5	40.1
4	*5260.00	107.4 AV			2.23 H	154	67.3	40.1
5	5358.24	61.9 PK	74.0	-12.1	2.23 H	154	59.6	2.3
6	5358.24	49.6 AV	54.0	-4.4	2.23 H	154	47.3	2.3
7	#10520.00	61.8 PK	68.2	-6.4	2.04 H	293	52.7	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.9 PK	74.0	-13.1	1.56 V	0	58.3	2.6
2	5150.00	48.3 AV	54.0	-5.7	1.56 V	0	45.7	2.6
3	*5260.00	120.2 PK			1.56 V	0	80.1	40.1
4	*5260.00	109.7 AV			1.56 V	0	69.6	40.1
5	5350.00	63.5 PK	74.0	-10.5	1.56 V	0	61.2	2.3
6	5350.00	52.1 AV	54.0	-1.9	1.56 V	0	49.8	2.3
7	#10520.00	62.3 PK	68.2	-5.9	1.97 V	55	53.2	9.1

Remarks:

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

RF Mode	802.11a	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	61.7 PK	74.0	-12.3	2.25 H	147	59.1	2.6
2	5150.00	49.0 AV	54.0	-5.0	2.25 H	147	46.4	2.6
3	*5300.00	118.8 PK			2.25 H	147	78.7	40.1
4	*5300.00	107.3 AV			2.25 H	147	67.2	40.1
5	5350.00	61.9 PK	74.0	-12.1	2.25 H	147	59.6	2.3
6	5350.00	51.0 AV	54.0	-3.0	2.25 H	147	48.7	2.3
7	10600.00	61.6 PK	74.0	-12.4	1.86 H	292	52.5	9.1
8	10600.00	47.7 AV	54.0	-6.3	1.86 H	292	38.6	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.2 PK	74.0	-13.8	1.46 V	5	57.6	2.6
2	5150.00	47.8 AV	54.0	-6.2	1.46 V	5	45.2	2.6
3	*5300.00	120.3 PK			1.46 V	5	80.2	40.1
4	*5300.00	109.8 AV			1.46 V	5	69.7	40.1
5	5350.00	67.9 PK	74.0	-6.1	1.46 V	5	65.6	2.3
6	5350.00	51.9 AV	54.0	-2.1	1.46 V	5	49.6	2.3
7	10600.00	62.1 PK	74.0	-11.9	1.94 V	58	53.0	9.1
8	10600.00	48.2 AV	54.0	-5.8	1.94 V	58	39.1	9.1

Remarks:

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

RF Mode	802.11a	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	119.5 PK			2.30 H	154	79.4	40.1
2	*5320.00	108.0 AV			2.30 H	154	67.9	40.1
3	5350.00	70.9 PK	74.0	-3.1	2.30 H	154	68.6	2.3
4	5350.00	52.5 AV	54.0	-1.5	2.30 H	154	50.2	2.3
5	10640.00	61.9 PK	74.0	-12.1	1.83 H	285	53.0	8.9
6	10640.00	48.0 AV	54.0	-6.0	1.83 H	285	39.1	8.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	121.4 PK			1.64 V	5	81.3	40.1
2	*5320.00	110.5 AV			1.64 V	5	70.4	40.1
3	5350.00	72.0 PK	74.0	-2.0	1.64 V	5	69.7	2.3
4	5350.00	53.6 AV	54.0	-0.4	1.64 V	5	51.3	2.3
5	10640.00	62.2 PK	74.0	-11.8	1.94 V	56	53.3	8.9
6	10640.00	48.4 AV	54.0	-5.6	1.94 V	56	39.5	8.9

Remarks:

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

RF Mode	802.11a	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	5403.00	61.1 PK	74.0	-12.9	2.28 H	163	58.5	2.6
2	5403.00	49.4 AV	54.0	-4.6	2.28 H	163	46.8	2.6
3	5460.00	60.3 PK	74.0	-13.7	2.28 H	163	57.8	2.5
4	5460.00	48.2 AV	54.0	-5.8	2.28 H	163	45.7	2.5
5	#5470.00	64.7 PK	68.2	-3.5	2.28 H	163	62.2	2.5
6	*5500.00	117.6 PK			2.28 H	163	77.2	40.4
7	*5500.00	105.4 AV			2.28 H	163	65.0	40.4
8	11000.00	61.2 PK	74.0	-12.8	1.81 H	277	52.0	9.2
9	11000.00	47.0 AV	54.0	-7.0	1.81 H	277	37.8	9.2

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5402.50	63.4 PK	74.0	-10.6	1.64 V	1	60.8	2.6
2	5402.50	51.4 AV	54.0	-2.6	1.64 V	1	48.8	2.6
3	5457.50	64.9 PK	74.0	-9.1	1.64 V	1	62.4	2.5
4	5457.50	49.0 AV	54.0	-5.0	1.64 V	1	46.5	2.5
5	#5470.00	68.1 PK	68.2	-0.1	1.64 V	1	65.6	2.5
6	*5500.00	119.6 PK			1.64 V	1	79.2	40.4
7	*5500.00	108.1 AV			1.64 V	1	67.7	40.4
8	11000.00	61.6 PK	74.0	-12.4	2.23 V	36	52.4	9.2
9	11000.00	47.5 AV	54.0	-6.5	2.23 V	36	38.3	9.2

Remarks:

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

RF Mode	802.11a	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.2 PK	74.0	-13.8	2.03 H	147	57.7	2.5
2	5460.00	47.8 AV	54.0	-6.2	2.03 H	147	45.3	2.5
3	#5470.00	60.0 PK	68.2	-8.2	2.03 H	147	57.5	2.5
4	*5580.00	120.8 PK			2.03 H	147	80.0	40.8
5	*5580.00	108.4 AV			2.03 H	147	67.6	40.8
6	#5725.00	61.4 PK	68.2	-6.8	2.03 H	147	57.5	3.9
7	11160.00	61.5 PK	74.0	-12.5	1.79 H	260	51.8	9.7
8	11160.00	47.3 AV	54.0	-6.7	1.79 H	260	37.6	9.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.6 PK	74.0	-12.4	1.80 V	3	59.1	2.5
2	5460.00	49.1 AV	54.0	-4.9	1.80 V	3	46.6	2.5
3	#5470.00	61.2 PK	68.2	-7.0	1.80 V	3	58.7	2.5
4	*5580.00	122.0 PK			1.80 V	3	81.2	40.8
5	*5580.00	110.8 AV			1.80 V	3	70.0	40.8
6	#5725.00	62.5 PK	68.2	-5.7	1.80 V	3	58.6	3.9
7	11160.00	61.8 PK	74.0	-12.2	2.15 V	40	52.1	9.7
8	11160.00	47.7 AV	54.0	-6.3	2.15 V	40	38.0	9.7

Remarks:

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

RF Mode	802.11a	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	116.6 PK			1.91 H	142	75.1	41.5
2	*5700.00	105.3 AV			1.91 H	142	63.8	41.5
3	#5725.00	66.2 PK	68.2	-2.0	1.91 H	142	62.3	3.9
4	11400.00	62.0 PK	74.0	-12.0	1.65 H	253	51.9	10.1
5	11400.00	48.0 AV	54.0	-6.0	1.65 H	253	37.9	10.1
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	*5700.00	118.8 PK			2.11 V	357	77.3	41.5
2	*5700.00	107.6 AV			2.11 V	357	66.1	41.5
3	#5725.00	68.0 PK	68.2	-0.2	2.11 V	357	64.1	3.9
4	11400.00	62.5 PK	74.0	-11.5	2.08 V	29	52.4	10.1
5	11400.00	48.4 AV	54.0	-5.6	2.08 V	29	38.3	10.1

Remarks:

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

RF Mode	802.11a	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	1.84 H	154	58.2	2.5
2	5460.00	47.5 AV	54.0	-6.5	1.84 H	154	45.0	2.5
3	#5470.00	58.6 PK	68.2	-9.6	1.84 H	154	56.1	2.5
4	*5720.00	117.6 PK			1.84 H	154	76.1	41.5
5	*5720.00	106.0 AV			1.84 H	154	64.5	41.5
6	11440.00	62.0 PK	74.0	-12.0	1.67 H	249	51.8	10.2
7	11440.00	47.9 AV	54.0	-6.1	1.67 H	249	37.7	10.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.7 PK	74.0	-12.3	2.01 V	359	59.2	2.5
2	5460.00	49.0 AV	54.0	-5.0	2.01 V	359	46.5	2.5
3	#5470.00	60.8 PK	68.2	-7.4	2.01 V	359	58.3	2.5
4	*5720.00	122.3 PK			2.01 V	359	80.8	41.5
5	*5720.00	110.7 AV			2.01 V	359	69.2	41.5
6	11440.00	62.4 PK	74.0	-11.6	2.13 V	26	52.2	10.2
7	11440.00	48.3 AV	54.0	-5.7	2.13 V	26	38.1	10.2

Remarks:

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

RF Mode	802.11a	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.80	63.5 PK	68.2	-4.7	2.07 H	139	59.9	3.6
2	*5745.00	119.9 PK			2.07 H	139	78.3	41.6
3	*5745.00	108.2 AV			2.07 H	139	66.6	41.6
4	#5968.40	62.4 PK	68.2	-5.8	2.07 H	139	58.2	4.2
5	11490.00	62.2 PK	74.0	-11.8	1.79 H	293	52.1	10.1
6	11490.00	48.0 AV	54.0	-6.0	1.79 H	293	37.9	10.1
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	#5647.60	66.1 PK	68.2	-2.1	2.12 V	2	62.5	3.6
2	*5745.00	121.1 PK			2.12 V	2	79.5	41.6
3	*5745.00	110.6 AV			2.12 V	2	69.0	41.6
4	#5952.40	63.5 PK	68.2	-4.7	2.12 V	2	59.3	4.2
5	11490.00	62.6 PK	74.0	-11.4	2.04 V	49	52.5	10.1
6	11490.00	48.4 AV	54.0	-5.6	2.04 V	49	38.3	10.1

Remarks:

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

RF Mode	802.11a	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	#5631.20	61.3 PK	68.2	-6.9	2.11 H	136	57.7	3.6
2	*5785.00	119.6 PK			2.11 H	136	77.8	41.8
3	*5785.00	107.9 AV			2.11 H	136	66.1	41.8
4	#5942.80	62.2 PK	68.2	-6.0	2.11 H	136	58.0	4.2
5	11570.00	61.9 PK	74.0	-12.1	1.74 H	296	52.0	9.9
6	11570.00	47.7 AV	54.0	-6.3	1.74 H	296	37.8	9.9
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	#5611.60	62.5 PK	68.2	-5.7	2.14 V	353	59.1	3.4
2	*5785.00	122.1 PK			2.14 V	353	80.3	41.8
3	*5785.00	110.6 AV			2.14 V	353	68.8	41.8
4	#5942.00	62.7 PK	68.2	-5.5	2.14 V	353	58.5	4.2
5	11570.00	62.3 PK	74.0	-11.7	2.08 V	51	52.4	9.9
6	11570.00	48.0 AV	54.0	-6.0	2.08 V	51	38.1	9.9

Remarks:

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

RF Mode	802.11a	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	#5625.60	60.8 PK	68.2	-7.4	2.23 H	132	57.4	3.4
2	*5825.00	119.1 PK			2.23 H	132	77.3	41.8
3	*5825.00	107.6 AV			2.23 H	132	65.8	41.8
4	#5926.00	64.0 PK	68.2	-4.2	2.23 H	132	59.8	4.2
5	11650.00	60.9 PK	74.0	-13.1	1.79 H	288	51.2	9.7
6	11650.00	47.6 AV	54.0	-6.4	1.79 H	288	37.9	9.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5629.60	62.2 PK	68.2	-6.0	1.91 V	353	58.6	3.6
2	*5825.00	121.7 PK			1.91 V	353	79.9	41.8
3	*5825.00	110.4 AV			1.91 V	353	68.6	41.8
4	#5931.60	65.6 PK	68.2	-2.6	1.91 V	353	61.4	4.2
5	11650.00	62.2 PK	74.0	-11.8	2.04 V	52	52.5	9.7
6	11650.00	48.0 AV	54.0	-6.0	2.04 V	52	38.3	9.7

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	63.7 PK	74.0	-10.3	2.03 H	172	61.1	2.6
2	5150.00	52.0 AV	54.0	-2.0	2.03 H	172	49.4	2.6
3	*5180.00	116.3 PK			2.03 H	172	76.1	40.2
4	*5180.00	103.6 AV			2.03 H	172	63.4	40.2
5	#10360.00	59.0 PK	68.2	-9.2	2.00 H	292	50.2	8.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.0 PK	74.0	-7.0	1.48 V	318	64.4	2.6
2	5150.00	53.8 AV	54.0	-0.2	1.48 V	318	51.2	2.6
3	*5180.00	119.9 PK			1.48 V	318	79.7	40.2
4	*5180.00	105.8 AV			1.48 V	318	65.6	40.2
5	#10360.00	59.3 PK	68.2	-8.9	2.00 V	76	50.5	8.8

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 40 : 5200 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	5104.80	62.5 PK	74.0	-11.5	2.08 H	153	60.0	2.5
2	5104.80	49.8 AV	54.0	-4.2	2.08 H	153	47.3	2.5
3	*5200.00	118.3 PK			2.08 H	153	78.1	40.2
4	*5200.00	105.4 AV			2.08 H	153	65.2	40.2
5	#10400.00	59.1 PK	68.2	-9.1	2.00 H	274	50.2	8.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5092.32	64.0 PK	74.0	-10.0	1.48 V	326	61.5	2.5
2	5092.32	52.4 AV	54.0	-1.6	1.48 V	326	49.9	2.5
3	*5200.00	120.5 PK			1.48 V	326	80.3	40.2
4	*5200.00	107.7 AV			1.48 V	326	67.5	40.2
5	#10400.00	58.8 PK	68.2	-9.4	2.00 V	81	49.9	8.9

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 48 : 5240 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	5144.16	63.3 PK	74.0	-10.7	2.11 H	152	60.7	2.6
2	5144.16	50.6 AV	54.0	-3.4	2.11 H	152	48.0	2.6
3	*5240.00	119.9 PK			2.11 H	152	79.8	40.1
4	*5240.00	106.6 AV			2.11 H	152	66.5	40.1
5	5350.00	60.5 PK	74.0	-13.5	2.11 H	152	58.2	2.3
6	5350.00	49.0 AV	54.0	-5.0	2.11 H	152	46.7	2.3
7	#10480.00	59.2 PK	68.2	-9.0	1.93 H	276	50.2	9.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5148.00	64.3 PK	74.0	-9.7	1.48 V	317	61.7	2.6
2	5148.00	52.1 AV	54.0	-1.9	1.48 V	317	49.5	2.6
3	*5240.00	122.7 PK			1.48 V	317	82.6	40.1
4	*5240.00	108.5 AV			1.48 V	317	68.4	40.1
5	5350.00	61.1 PK	74.0	-12.9	1.48 V	317	58.8	2.3
6	5350.00	48.9 AV	54.0	-5.1	1.48 V	317	46.6	2.3
7	#10480.00	58.9 PK	68.2	-9.3	2.02 V	82	49.9	9.0

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 52 : 5260 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	62.4 PK	74.0	-11.6	2.23 H	154	59.8	2.6
2	5150.00	49.1 AV	54.0	-4.9	2.23 H	154	46.5	2.6
3	*5260.00	120.1 PK			2.23 H	154	80.0	40.1
4	*5260.00	106.6 AV			2.23 H	154	66.5	40.1
5	5350.00	62.4 PK	74.0	-11.6	2.23 H	154	60.1	2.3
6	5350.00	49.4 AV	54.0	-4.6	2.23 H	154	47.1	2.3
7	#10520.00	59.2 PK	68.2	-9.0	2.04 H	293	50.1	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.0 PK	74.0	-13.0	1.56 V	0	58.4	2.6
2	5150.00	47.5 AV	54.0	-6.5	1.56 V	0	44.9	2.6
3	*5260.00	122.1 PK			1.56 V	0	82.0	40.1
4	*5260.00	109.0 AV			1.56 V	0	68.9	40.1
5	5350.00	62.9 PK	74.0	-11.1	1.56 V	0	60.6	2.3
6	5350.00	51.6 AV	54.0	-2.4	1.56 V	0	49.3	2.3
7	#10520.00	59.7 PK	68.2	-8.5	1.97 V	55	50.6	9.1

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 60 : 5300 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	61.9 PK	74.0	-12.1	2.25 H	147	59.3	2.6
2	5150.00	49.2 AV	54.0	-4.8	2.25 H	147	46.6	2.6
3	*5300.00	119.9 PK			2.25 H	147	79.8	40.1
4	*5300.00	106.6 AV			2.25 H	147	66.5	40.1
5	5401.44	63.6 PK	74.0	-10.4	2.25 H	147	61.0	2.6
6	5401.44	50.6 AV	54.0	-3.4	2.25 H	147	48.0	2.6
7	10600.00	59.1 PK	74.0	-14.9	1.86 H	292	50.0	9.1
8	10600.00	45.0 AV	54.0	-9.0	1.86 H	292	35.9	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.7 PK	74.0	-12.3	1.46 V	5	59.1	2.6
2	5150.00	48.8 AV	54.0	-5.2	1.46 V	5	46.2	2.6
3	*5300.00	122.8 PK			1.46 V	5	82.7	40.1
4	*5300.00	109.1 AV			1.46 V	5	69.0	40.1
5	5406.24	65.2 PK	74.0	-8.8	1.46 V	5	62.6	2.6
6	5406.24	52.7 AV	54.0	-1.3	1.46 V	5	50.1	2.6
7	10600.00	59.5 PK	74.0	-14.5	1.94 V	58	50.4	9.1
8	10600.00	45.4 AV	54.0	-8.6	1.94 V	58	36.3	9.1

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 64 : 5320 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	118.9 PK			2.30 H	154	78.8	40.1
2	*5320.00	105.8 AV			2.30 H	154	65.7	40.1
3	5350.00	67.4 PK	74.0	-6.6	2.30 H	154	65.1	2.3
4	5350.00	52.0 AV	54.0	-2.0	2.30 H	154	49.7	2.3
5	10640.00	58.8 PK	74.0	-15.2	1.83 H	285	49.9	8.9
6	10640.00	44.6 AV	54.0	-9.4	1.83 H	285	35.7	8.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	121.7 PK			1.64 V	5	81.6	40.1
2	*5320.00	108.4 AV			1.64 V	5	68.3	40.1
3	5350.00	67.4 PK	74.0	-6.6	1.64 V	5	65.1	2.3
4	5350.00	53.9 AV	54.0	-0.1	1.64 V	5	51.6	2.3
5	10640.00	59.0 PK	74.0	-15.0	1.94 V	56	50.1	8.9
6	10640.00	44.9 AV	54.0	-9.1	1.94 V	56	36.0	8.9

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 100 : 5500 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	5399.00	60.4 PK	74.0	-13.6	2.28 H	163	57.9	2.5
2	5399.00	49.1 AV	54.0	-4.9	2.28 H	163	46.6	2.5
3	#5470.00	63.2 PK	68.2	-5.0	2.28 H	163	60.7	2.5
4	*5500.00	118.3 PK			2.28 H	163	77.9	40.4
5	*5500.00	104.2 AV			2.28 H	163	63.8	40.4
6	11000.00	59.0 PK	74.0	-15.0	1.81 H	277	49.8	9.2
7	11000.00	44.5 AV	54.0	-9.5	1.81 H	277	35.3	9.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5401.00	63.1 PK	74.0	-10.9	1.64 V	1	60.5	2.6
2	5401.00	50.6 AV	54.0	-3.4	1.64 V	1	48.0	2.6
3	#5470.00	67.3 PK	68.2	-0.9	1.64 V	1	64.8	2.5
4	*5500.00	121.5 PK			1.64 V	1	81.1	40.4
5	*5500.00	106.7 AV			1.64 V	1	66.3	40.4
6	11000.00	59.4 PK	74.0	-14.6	2.23 V	36	50.2	9.2
7	11000.00	45.1 AV	54.0	-8.9	2.23 V	36	35.9	9.2

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 116 : 5580 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	2.03 H	147	58.5	2.5
2	5460.00	47.7 AV	54.0	-6.3	2.03 H	147	45.2	2.5
3	#5470.00	60.6 PK	68.2	-7.6	2.03 H	147	58.1	2.5
4	*5580.00	121.0 PK			2.03 H	147	80.2	40.8
5	*5580.00	107.5 AV			2.03 H	147	66.7	40.8
6	#5725.00	61.4 PK	68.2	-6.8	2.03 H	147	57.5	3.9
7	11160.00	59.7 PK	74.0	-14.3	2.15 H	40	50.0	9.7
8	11160.00	45.4 AV	54.0	-8.6	2.15 H	40	35.7	9.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.7 PK	74.0	-12.3	1.80 V	3	59.2	2.5
2	5460.00	49.3 AV	54.0	-4.7	1.80 V	3	46.8	2.5
3	#5470.00	62.6 PK	68.2	-5.6	1.80 V	3	60.1	2.5
4	*5580.00	123.5 PK			1.80 V	3	82.7	40.8
5	*5580.00	110.1 AV			1.80 V	3	69.3	40.8
6	#5725.00	62.1 PK	68.2	-6.1	1.80 V	3	58.2	3.9
7	11160.00	60.1 PK	74.0	-13.9	2.15 V	40	50.4	9.7
8	11160.00	45.8 AV	54.0	-8.2	2.15 V	40	36.1	9.7

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 140 : 5700 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	116.0 PK			1.91 H	142	74.5	41.5
2	*5700.00	102.4 AV			1.91 H	142	60.9	41.5
3	#5725.00	65.0 PK	68.2	-3.2	1.91 H	142	61.1	3.9
4	11400.00	60.2 PK	74.0	-13.8	1.65 H	253	50.1	10.1
5	11400.00	46.1 AV	54.0	-7.9	1.65 H	253	36.0	10.1
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	*5700.00	118.2 PK			2.11 V	357	76.7	41.5
2	*5700.00	105.0 AV			2.11 V	357	63.5	41.5
3	#5725.00	68.0 PK	68.2	-0.2	2.11 V	357	64.1	3.9
4	11400.00	60.6 PK	74.0	-13.4	2.08 V	29	50.5	10.1
5	11400.00	46.4 AV	54.0	-7.6	2.08 V	29	36.3	10.1

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 144 : 5720 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	1.84 H	154	58.2	2.5
2	5460.00	47.7 AV	54.0	-6.3	1.84 H	154	45.2	2.5
3	#5470.00	60.5 PK	68.2	-7.7	1.84 H	154	58.0	2.5
4	*5720.00	120.1 PK			1.84 H	154	78.6	41.5
5	*5720.00	107.5 AV			1.84 H	154	66.0	41.5
6	11440.00	59.7 PK	74.0	-14.3	1.67 H	249	49.5	10.2
7	11440.00	45.6 AV	54.0	-8.4	1.67 H	249	35.4	10.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.1 PK	74.0	-12.9	2.01 V	359	58.6	2.5
2	5460.00	49.0 AV	54.0	-5.0	2.01 V	359	46.5	2.5
3	#5470.00	60.0 PK	68.2	-8.2	2.01 V	359	57.5	2.5
4	*5720.00	123.8 PK			2.01 V	359	82.3	41.5
5	*5720.00	109.9 AV			2.01 V	359	68.4	41.5
6	11440.00	60.0 PK	74.0	-14.0	2.13 V	26	49.8	10.2
7	11440.00	46.1 AV	54.0	-7.9	2.13 V	26	35.9	10.2

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 149 : 5745 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.00	63.3 PK	68.2	-4.9	2.07 H	139	59.7	3.6
2	*5745.00	120.2 PK			2.07 H	139	78.6	41.6
3	*5745.00	107.3 AV			2.07 H	139	65.7	41.6
4	#5988.40	61.5 PK	68.2	-6.7	2.07 H	139	57.1	4.4
5	11490.00	59.3 PK	74.0	-14.7	1.79 H	293	49.2	10.1
6	11490.00	45.4 AV	54.0	-8.6	1.79 H	293	35.3	10.1
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	#5636.00	64.8 PK	68.2	-3.4	2.12 V	2	61.2	3.6
2	*5745.00	123.0 PK			2.12 V	2	81.4	41.6
3	*5745.00	110.0 AV			2.12 V	2	68.4	41.6
4	#5943.20	63.2 PK	68.2	-5.0	2.12 V	2	59.0	4.2
5	11490.00	59.8 PK	74.0	-14.2	2.04 V	49	49.7	10.1
6	11490.00	45.8 AV	54.0	-8.2	2.04 V	49	35.7	10.1

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 157 : 5785 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5648.40	61.6 PK	68.2	-6.6	2.11 H	136	58.0	3.6
2	*5785.00	119.9 PK			2.11 H	136	78.1	41.8
3	*5785.00	107.0 AV			2.11 H	136	65.2	41.8
4	#5988.40	62.0 PK	68.2	-6.2	2.11 H	136	57.6	4.4
5	11570.00	59.2 PK	74.0	-14.8	1.74 H	296	49.3	9.9
6	11570.00	45.1 AV	54.0	-8.9	1.74 H	296	35.2	9.9
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	#5608.80	62.5 PK	68.2	-5.7	2.14 V	353	59.1	3.4
2	*5785.00	123.0 PK			2.14 V	353	81.2	41.8
3	*5785.00	109.9 AV			2.14 V	353	68.1	41.8
4	#5977.60	62.7 PK	68.2	-5.5	2.14 V	353	58.4	4.3
5	11570.00	59.7 PK	74.0	-14.3	2.08 V	51	49.8	9.9
6	11570.00	45.6 AV	54.0	-8.4	2.08 V	51	35.7	9.9

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 165 : 5825 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	#5631.60	61.8 PK	68.2	-6.4	2.23 H	132	58.2	3.6
2	*5825.00	120.9 PK			2.23 H	132	79.1	41.8
3	*5825.00	106.8 AV			2.23 H	132	65.0	41.8
4	#5928.40	64.0 PK	68.2	-4.2	2.23 H	132	59.8	4.2
5	11650.00	58.9 PK	74.0	-15.1	1.79 H	288	49.2	9.7
6	11650.00	44.7 AV	54.0	-9.3	1.79 H	288	35.0	9.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5607.60	61.9 PK	68.2	-6.3	1.91 V	353	58.5	3.4
2	*5825.00	122.9 PK			1.91 V	353	81.1	41.8
3	*5825.00	109.7 AV			1.91 V	353	67.9	41.8
4	#5932.80	65.5 PK	68.2	-2.7	1.91 V	353	61.3	4.2
5	11650.00	59.3 PK	74.0	-14.7	2.04 V	52	49.6	9.7
6	11650.00	45.2 AV	54.0	-8.8	2.04 V	52	35.5	9.7

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 38 : 5190 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.6 PK	74.0	-5.4	2.03 H	172	66.0	2.6
2	5150.00	51.0 AV	54.0	-3.0	2.03 H	172	48.4	2.6
3	*5190.00	112.9 PK			2.03 H	172	72.6	40.3
4	*5190.00	99.1 AV			2.03 H	172	58.8	40.3
5	5350.00	58.1 PK	74.0	-15.9	2.03 H	172	55.8	2.3
6	5350.00	46.0 AV	54.0	-8.0	2.03 H	172	43.7	2.3
7	#10380.00	58.3 PK	68.2	-9.9	2.00 H	63	49.5	8.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	70.9 PK	74.0	-3.1	1.48 V	318	68.3	2.6
2	5150.00	53.7 AV	54.0	-0.3	1.48 V	318	51.1	2.6
3	*5190.00	114.5 PK			1.48 V	318	74.2	40.3
4	*5190.00	101.1 AV			1.48 V	318	60.8	40.3
5	5350.00	58.5 PK	74.0	-15.5	1.48 V	318	56.2	2.3
6	5350.00	46.1 AV	54.0	-7.9	1.48 V	318	43.8	2.3
7	#10380.00	58.6 PK	68.2	-9.6	1.96 V	284	49.8	8.8

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 46 : 5230 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	65.3 PK	74.0	-8.7	2.11 H	154	62.7	2.6
2	5150.00	51.9 AV	54.0	-2.1	2.11 H	154	49.3	2.6
3	*5230.00	117.5 PK			2.11 H	154	77.4	40.1
4	*5230.00	103.6 AV			2.11 H	154	63.5	40.1
5	5350.00	60.0 PK	74.0	-14.0	2.11 H	154	57.7	2.3
6	5350.00	48.1 AV	54.0	-5.9	2.11 H	154	45.8	2.3
7	#10460.00	58.8 PK	68.2	-9.4	1.93 H	275	49.8	9.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.8 PK	74.0	-6.2	1.55 V	320	65.2	2.6
2	5150.00	53.4 AV	54.0	-0.6	1.55 V	320	50.8	2.6
3	*5230.00	118.8 PK			1.55 V	320	78.7	40.1
4	*5230.00	105.8 AV			1.55 V	320	65.7	40.1
5	5350.00	61.0 PK	74.0	-13.0	1.55 V	320	58.7	2.3
6	5350.00	48.8 AV	54.0	-5.2	1.55 V	320	46.5	2.3
7	#10460.00	59.4 PK	68.2	-8.8	2.04 V	88	50.4	9.0

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 54 : 5270 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	62.6 PK	74.0	-11.4	2.27 H	151	60.0	2.6
2	5150.00	49.7 AV	54.0	-4.3	2.27 H	151	47.1	2.6
3	*5270.00	117.4 PK			2.27 H	151	77.3	40.1
4	*5270.00	103.6 AV			2.27 H	151	63.5	40.1
5	5350.00	64.3 PK	74.0	-9.7	2.27 H	151	62.0	2.3
6	5350.00	49.8 AV	54.0	-4.2	2.27 H	151	47.5	2.3
7	#10540.00	58.3 PK	68.2	-9.9	1.97 H	293	49.2	9.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.3 PK	74.0	-12.7	1.56 V	5	58.7	2.6
2	5150.00	48.5 AV	54.0	-5.5	1.56 V	5	45.9	2.6
3	*5270.00	120.2 PK			1.56 V	5	80.1	40.1
4	*5270.00	106.2 AV			1.56 V	5	66.1	40.1
5	5350.00	66.1 PK	74.0	-7.9	1.56 V	5	63.8	2.3
6	5350.00	52.8 AV	54.0	-1.2	1.56 V	5	50.5	2.3
7	#10540.00	58.7 PK	68.2	-9.5	1.92 V	42	49.6	9.1

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 62 : 5310 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	59.9 PK	74.0	-14.1	2.30 H	147	57.3	2.6
2	5150.00	47.3 AV	54.0	-6.7	2.30 H	147	44.7	2.6
3	*5310.00	112.2 PK			2.30 H	147	72.1	40.1
4	*5310.00	98.6 AV			2.30 H	147	58.5	40.1
5	5350.00	66.9 PK	74.0	-7.1	2.30 H	147	64.6	2.3
6	5350.00	52.7 AV	54.0	-1.3	2.30 H	147	50.4	2.3
7	10620.00	58.3 PK	74.0	-15.7	1.83 H	283	49.3	9.0
8	10620.00	44.4 AV	54.0	-9.6	1.83 H	283	35.4	9.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.7 PK	74.0	-14.3	1.64 V	4	57.1	2.6
2	5150.00	47.1 AV	54.0	-6.9	1.64 V	4	44.5	2.6
3	*5310.00	115.3 PK			1.64 V	4	75.2	40.1
4	*5310.00	101.1 AV			1.64 V	4	61.0	40.1
5	5350.00	69.3 PK	74.0	-4.7	1.64 V	4	67.0	2.3
6	5350.00	53.6 AV	54.0	-0.4	1.64 V	4	51.3	2.3
7	10620.00	58.8 PK	74.0	-15.2	1.92 V	51	49.8	9.0
8	10620.00	44.7 AV	54.0	-9.3	1.92 V	51	35.7	9.0

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 102 : 5510 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	2.31 H	152	58.0	2.5
2	5460.00	48.7 AV	54.0	-5.3	2.31 H	152	46.2	2.5
3	#5470.00	64.4 PK	68.2	-3.8	2.31 H	152	61.9	2.5
4	*5510.00	113.7 PK			2.31 H	152	73.3	40.4
5	*5510.00	99.2 AV			2.31 H	152	58.8	40.4
6	#5725.00	59.7 PK	68.2	-8.5	2.31 H	152	55.8	3.9
7	11020.00	58.8 PK	74.0	-15.2	1.82 H	271	49.5	9.3
8	11020.00	44.6 AV	54.0	-9.4	1.82 H	271	35.3	9.3
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	5460.00	64.5 PK	74.0	-9.5	1.47 V	1	62.0	2.5
2	5460.00	50.1 AV	54.0	-3.9	1.47 V	1	47.6	2.5
3	#5470.00	67.8 PK	68.2	-0.4	1.47 V	1	65.3	2.5
4	*5510.00	115.7 PK			1.47 V	1	75.3	40.4
5	*5510.00	101.9 AV			1.47 V	1	61.5	40.4
6	#5725.00	62.2 PK	68.2	-6.0	1.47 V	1	58.3	3.9
7	11020.00	59.2 PK	74.0	-14.8	2.23 V	42	49.9	9.3
8	11020.00	45.0 AV	54.0	-9.0	2.23 V	42	35.7	9.3

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 110 : 5550 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	62.7 PK	74.0	-11.3	2.04 H	138	60.2	2.5
2	5460.00	50.4 AV	54.0	-3.6	2.04 H	138	47.9	2.5
3	#5470.00	66.7 PK	68.2	-1.5	2.04 H	138	64.2	2.5
4	*5550.00	118.5 PK			2.04 H	138	77.8	40.7
5	*5550.00	104.7 AV			2.04 H	138	64.0	40.7
6	#5725.00	61.6 PK	68.2	-6.6	2.04 H	138	57.7	3.9
7	11100.00	58.8 PK	74.0	-15.2	1.79 H	260	49.2	9.6
8	11100.00	44.6 AV	54.0	-9.4	1.79 H	260	35.0	9.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	64.5 PK	74.0	-9.5	1.80 V	359	62.0	2.5
2	5460.00	51.7 AV	54.0	-2.3	1.80 V	359	49.2	2.5
3	#5470.00	67.7 PK	68.2	-0.5	1.80 V	359	65.2	2.5
4	*5550.00	120.5 PK			1.80 V	359	79.8	40.7
5	*5550.00	106.9 AV			1.80 V	359	66.2	40.7
6	#5725.00	62.2 PK	68.2	-6.0	1.80 V	359	58.3	3.9
7	11100.00	59.3 PK	74.0	-14.7	2.15 V	40	49.7	9.6
8	11100.00	45.1 AV	54.0	-8.9	2.15 V	40	35.5	9.6

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	60.9 PK	74.0	-13.1	1.85 H	143	58.4	2.5
2	5460.00	47.3 AV	54.0	-6.7	1.85 H	143	44.8	2.5
3	#5470.00	59.9 PK	68.2	-8.3	1.85 H	143	57.4	2.5
4	*5670.00	115.6 PK			1.85 H	143	74.3	41.3
5	*5670.00	102.6 AV			1.85 H	143	61.3	41.3
6	#5725.00	64.3 PK	68.2	-3.9	1.85 H	143	60.4	3.9
7	11340.00	59.0 PK	74.0	-15.0	1.65 H	257	49.0	10.0
8	11340.00	44.8 AV	54.0	-9.2	1.65 H	257	34.8	10.0
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	5460.00	61.2 PK	74.0	-12.8	1.93 V	1	58.7	2.5
2	5460.00	47.7 AV	54.0	-6.3	1.93 V	1	45.2	2.5
3	#5470.00	60.0 PK	68.2	-8.2	1.93 V	1	57.5	2.5
4	*5670.00	118.9 PK			1.93 V	1	77.6	41.3
5	*5670.00	105.0 AV			1.93 V	1	63.7	41.3
6	#5725.00	68.0 PK	68.2	-0.2	1.93 V	1	64.1	3.9
7	11340.00	59.3 PK	74.0	-14.7	2.04 V	33	49.3	10.0
8	11340.00	45.2 AV	54.0	-8.8	2.04 V	33	35.2	10.0

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 142 : 5710 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	60.8 PK	74.0	-13.2	1.82 H	162	58.3	2.5
2	5460.00	48.4 AV	54.0	-5.6	1.82 H	162	45.9	2.5
3	#5470.00	59.9 PK	68.2	-8.3	1.82 H	162	57.4	2.5
4	*5710.00	118.5 PK			1.82 H	162	76.9	41.6
5	*5710.00	105.3 AV			1.82 H	162	63.7	41.6
6	11420.00	59.4 PK	74.0	-14.6	2.08 H	25	49.3	10.1
7	11420.00	45.5 AV	54.0	-8.5	2.08 H	25	35.4	10.1
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	62.4 PK	74.0	-11.6	2.11 V	358	59.9	2.5
2	5460.00	48.8 AV	54.0	-5.2	2.11 V	358	46.3	2.5
3	#5470.00	60.3 PK	68.2	-7.9	2.11 V	358	57.8	2.5
4	*5710.00	121.4 PK			2.11 V	358	79.8	41.6
5	*5710.00	107.6 AV			2.11 V	358	66.0	41.6
6	11420.00	59.6 PK	74.0	-14.4	2.13 V	25	49.5	10.1
7	11420.00	45.7 AV	54.0	-8.3	2.13 V	25	35.6	10.1

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.00	63.7 PK	68.2	-4.5	2.07 H	142	60.1	3.6
2	*5755.00	118.3 PK			2.07 H	142	76.6	41.7
3	*5755.00	104.2 AV			2.07 H	142	62.5	41.7
4	#5935.20	62.6 PK	68.2	-5.6	2.07 H	142	58.4	4.2
5	11510.00	59.3 PK	74.0	-14.7	1.76 H	293	49.2	10.1
6	11510.00	45.2 AV	54.0	-8.8	1.76 H	293	35.1	10.1
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	#5643.60	66.2 PK	68.2	-2.0	2.12 V	2	62.6	3.6
2	*5755.00	120.3 PK			2.12 V	2	78.6	41.7
3	*5755.00	106.8 AV			2.12 V	2	65.1	41.7
4	#5958.40	63.3 PK	68.2	-4.9	2.12 V	2	59.1	4.2
5	11510.00	59.6 PK	74.0	-14.4	2.07 V	48	49.5	10.1
6	11510.00	45.6 AV	54.0	-8.4	2.07 V	48	35.5	10.1

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 159 : 5795 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.60	62.2 PK	68.2	-6.0	1.96 H	134	58.6	3.6
2	*5795.00	118.5 PK			1.96 H	134	76.7	41.8
3	*5795.00	104.5 AV			1.96 H	134	62.7	41.8
4	#5927.60	62.8 PK	68.2	-5.4	1.96 H	134	58.6	4.2
5	11590.00	59.0 PK	74.0	-15.0	1.82 H	293	49.1	9.9
6	11590.00	45.1 AV	54.0	-8.9	1.82 H	293	35.2	9.9
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	#5647.20	64.3 PK	68.2	-3.9	2.05 V	358	60.7	3.6
2	*5795.00	120.5 PK			2.05 V	358	78.7	41.8
3	*5795.00	107.0 AV			2.05 V	358	65.2	41.8
4	#5950.80	62.9 PK	68.2	-5.3	2.05 V	358	58.7	4.2
5	11590.00	59.5 PK	74.0	-14.5	2.04 V	48	49.6	9.9
6	11590.00	45.6 AV	54.0	-8.4	2.04 V	48	35.7	9.9

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 42 : 5210 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.5 PK	74.0	-5.5	2.03 H	172	65.9	2.6
2	5150.00	51.6 AV	54.0	-2.4	2.03 H	172	49.0	2.6
3	*5210.00	110.0 PK			2.03 H	172	69.8	40.2
4	*5210.00	96.0 AV			2.03 H	172	55.8	40.2
5	5350.00	59.1 PK	74.0	-14.9	2.03 H	172	56.8	2.3
6	5350.00	46.7 AV	54.0	-7.3	2.03 H	172	44.4	2.3
7	#10420.00	58.3 PK	68.2	-9.9	2.00 H	65	49.4	8.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	69.7 PK	74.0	-4.3	1.48 V	319	67.1	2.6
2	5150.00	53.8 AV	54.0	-0.2	1.48 V	319	51.2	2.6
3	*5210.00	111.7 PK			1.48 V	319	71.5	40.2
4	*5210.00	98.1 AV			1.48 V	319	57.9	40.2
5	5350.00	59.4 PK	74.0	-14.6	1.48 V	319	57.1	2.3
6	5350.00	47.7 AV	54.0	-6.3	1.48 V	319	45.4	2.3
7	#10420.00	58.5 PK	68.2	-9.7	1.94 V	279	49.6	8.9

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	60.2 PK	74.0	-13.8	2.17 H	153	57.6	2.6
2	5150.00	47.8 AV	54.0	-6.2	2.17 H	153	45.2	2.6
3	*5290.00	108.2 PK			2.17 H	153	68.1	40.1
4	*5290.00	94.6 AV			2.17 H	153	54.5	40.1
5	5350.00	67.9 PK	74.0	-6.1	2.17 H	153	65.6	2.3
6	5350.00	51.9 AV	54.0	-2.1	2.17 H	153	49.6	2.3
7	#10580.00	58.5 PK	68.2	-9.7	1.86 H	286	49.5	9.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.5 PK	74.0	-14.5	1.28 V	5	56.9	2.6
2	5150.00	46.9 AV	54.0	-7.1	1.28 V	5	44.3	2.6
3	*5290.00	110.8 PK			1.28 V	5	70.7	40.1
4	*5290.00	97.2 AV			1.28 V	5	57.1	40.1
5	5350.00	68.8 PK	74.0	-5.2	1.28 V	5	66.5	2.3
6	5350.00	53.9 AV	54.0	-0.1	1.28 V	5	51.6	2.3
7	#10580.00	58.3 PK	68.2	-9.9	1.91 V	53	49.3	9.0

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 106 : 5530 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	64.1 PK	74.0	-9.9	2.35 H	157	61.6	2.5
2	5460.00	48.8 AV	54.0	-5.2	2.35 H	157	46.3	2.5
3	#5470.00	65.1 PK	68.2	-3.1	2.35 H	157	62.6	2.5
4	*5530.00	109.0 PK			2.35 H	157	68.4	40.6
5	*5530.00	95.2 AV			2.35 H	157	54.6	40.6
6	#5725.00	61.8 PK	68.2	-6.4	2.35 H	157	57.9	3.9
7	11060.00	58.7 PK	74.0	-15.3	1.82 H	253	49.2	9.5
8	11060.00	44.4 AV	54.0	-9.6	1.82 H	253	34.9	9.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	66.4 PK	74.0	-7.6	1.45 V	2	63.9	2.5
2	5460.00	50.4 AV	54.0	-3.6	1.45 V	2	47.9	2.5
3	#5470.00	68.1 PK	68.2	-0.1	1.45 V	2	65.6	2.5
4	*5530.00	111.2 PK			1.45 V	2	70.6	40.6
5	*5530.00	97.9 AV			1.45 V	2	57.3	40.6
6	#5725.00	61.7 PK	68.2	-6.5	1.45 V	2	57.8	3.9
7	11060.00	59.0 PK	74.0	-15.0	2.17 V	41	49.5	9.5
8	11060.00	44.8 AV	54.0	-9.2	2.17 V	41	35.3	9.5

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 122 : 5610 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	62.5 PK	74.0	-11.5	1.93 H	122	60.0	2.5
2	5460.00	49.5 AV	54.0	-4.5	1.93 H	122	47.0	2.5
3	#5470.00	64.4 PK	68.2	-3.8	1.93 H	122	61.9	2.5
4	*5610.00	114.1 PK			1.93 H	122	73.1	41.0
5	*5610.00	100.3 AV			1.93 H	122	59.3	41.0
6	#5725.00	64.9 PK	68.2	-3.3	1.93 H	122	61.0	3.9
7	11220.00	59.7 PK	74.0	-14.3	1.77 H	257	49.8	9.9
8	11220.00	45.4 AV	54.0	-8.6	1.77 H	257	35.5	9.9
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	64.4 PK	74.0	-9.6	2.17 V	3	61.9	2.5
2	5460.00	50.9 AV	54.0	-3.1	2.17 V	3	48.4	2.5
3	#5470.00	64.7 PK	68.2	-3.5	2.17 V	3	62.2	2.5
4	*5610.00	116.1 PK			2.17 V	3	75.1	41.0
5	*5610.00	102.7 AV			2.17 V	3	61.7	41.0
6	#5725.00	67.6 PK	68.2	-0.6	2.17 V	3	63.7	3.9
7	11220.00	59.5 PK	74.0	-14.5	2.15 V	34	49.6	9.9
8	11220.00	45.4 AV	54.0	-8.6	2.15 V	34	35.5	9.9

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 138 : 5690 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	61.9 PK	74.0	-12.1	1.85 H	141	59.4	2.5
2	5460.00	48.8 AV	54.0	-5.2	1.85 H	141	46.3	2.5
3	#5470.00	62.3 PK	68.2	-5.9	1.85 H	141	59.8	2.5
4	*5690.00	115.5 PK			1.85 H	141	74.1	41.4
5	*5690.00	102.0 AV			1.85 H	141	60.6	41.4
6	#5850.00	65.7 PK	68.2	-2.5	1.85 H	141	61.6	4.1
7	11380.00	59.3 PK	74.0	-14.7	1.72 H	235	49.2	10.1
8	11380.00	45.4 AV	54.0	-8.6	1.72 H	235	35.3	10.1
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	62.3 PK	74.0	-11.7	2.11 V	359	59.8	2.5
2	5460.00	49.1 AV	54.0	-4.9	2.11 V	359	46.6	2.5
3	#5470.00	62.2 PK	68.2	-6.0	2.11 V	359	59.7	2.5
4	*5690.00	118.0 PK			2.11 V	359	76.6	41.4
5	*5690.00	104.4 AV			2.11 V	359	63.0	41.4
6	#5850.00	67.8 PK	68.2	-0.4	2.11 V	359	63.7	4.1
7	11380.00	59.7 PK	74.0	-14.3	2.08 V	28	49.6	10.1
8	11380.00	45.8 AV	54.0	-8.2	2.08 V	28	35.7	10.1

Remarks:

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

RF Mode	802.11ax (HE80)	Channel	CH 155 : 5775 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 67% RH
Tested By	Karl Lee		

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	#5640.80	66.2 PK	68.2	-2.0	1.93 H	125	62.6	3.6
2	*5775.00	114.6 PK			1.93 H	125	72.8	41.8
3	*5775.00	101.0 AV			1.93 H	125	59.2	41.8
4	#5931.60	64.2 PK	68.2	-4.0	1.93 H	125	60.0	4.2
5	11550.00	59.1 PK	74.0	-14.9	1.74 H	290	49.1	10.0
6	11550.00	45.2 AV	54.0	-8.8	1.74 H	290	35.2	10.0
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	#5640.80	67.6 PK	68.2	-0.6	2.14 V	359	64.0	3.6
2	#5650.80	68.1 PK	68.8	-0.7	2.14 V	359	64.5	3.6
3	*5775.00	116.5 PK			2.14 V	359	74.7	41.8
4	*5775.00	103.4 AV			2.14 V	359	61.6	41.8
5	#5929.20	65.9 PK	68.2	-2.3	2.14 V	359	61.7	4.2
6	11550.00	59.3 PK	74.0	-14.7	2.08 V	52	49.3	10.0
7	11550.00	45.5 AV	54.0	-8.5	2.08 V	52	35.5	10.0

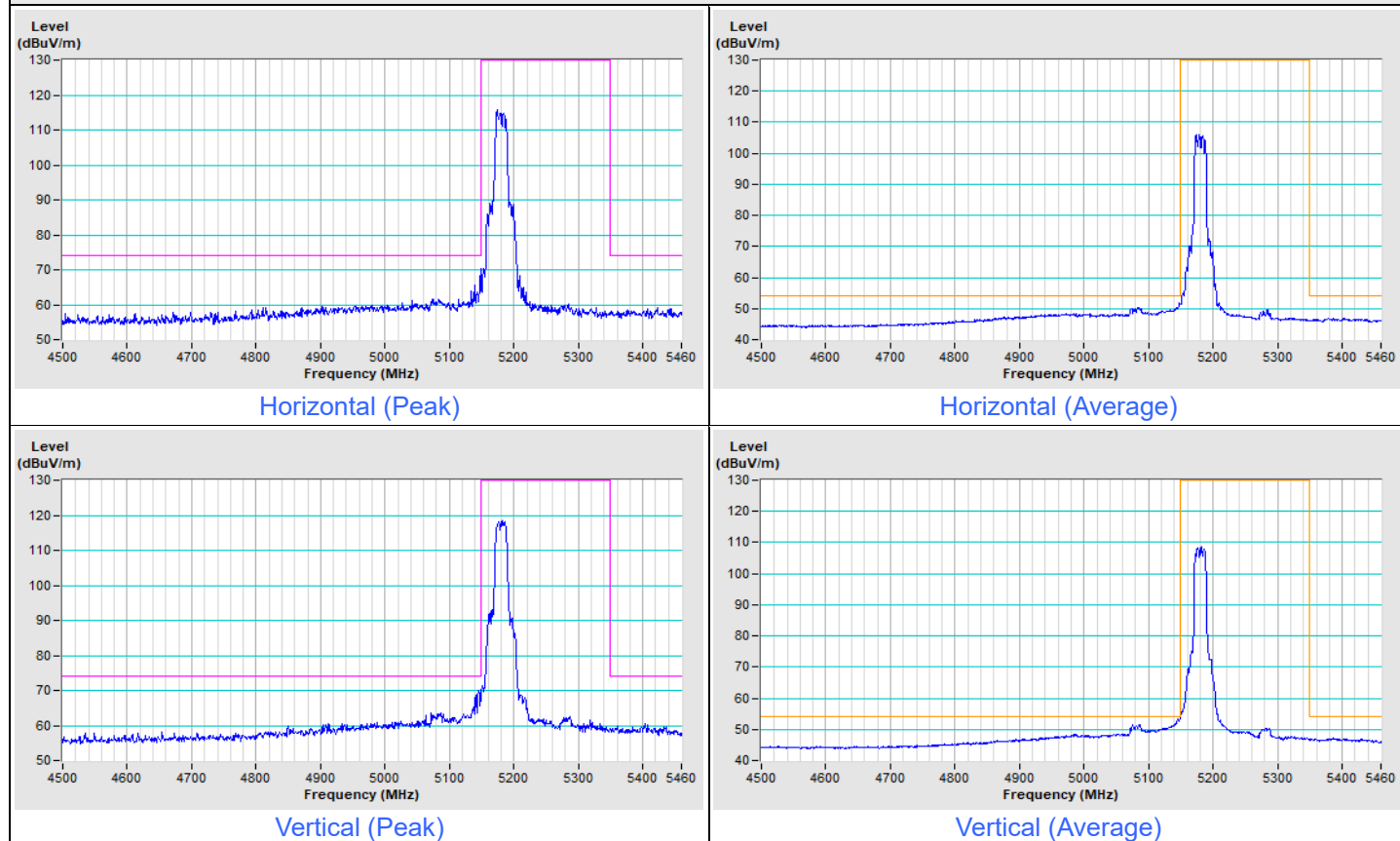
Remarks:

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.

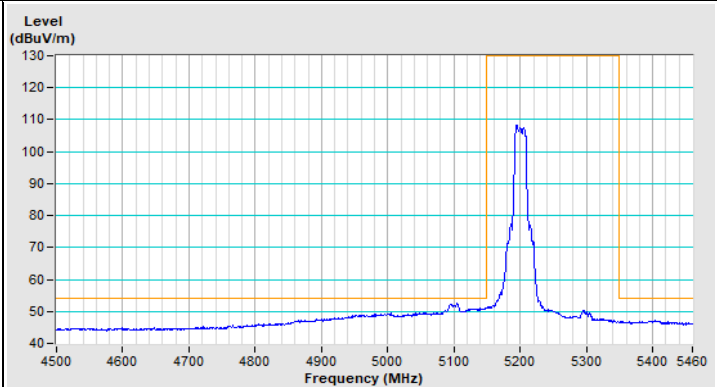
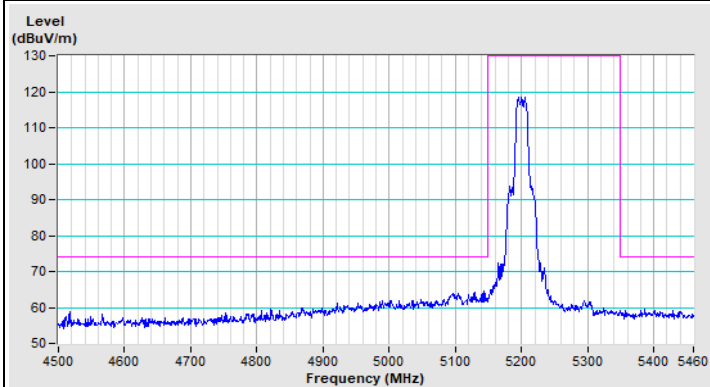
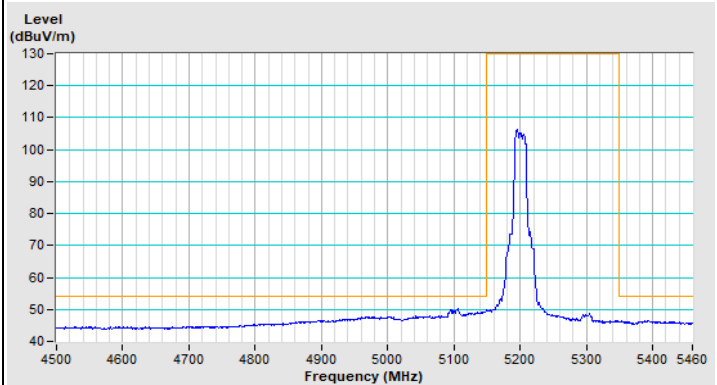
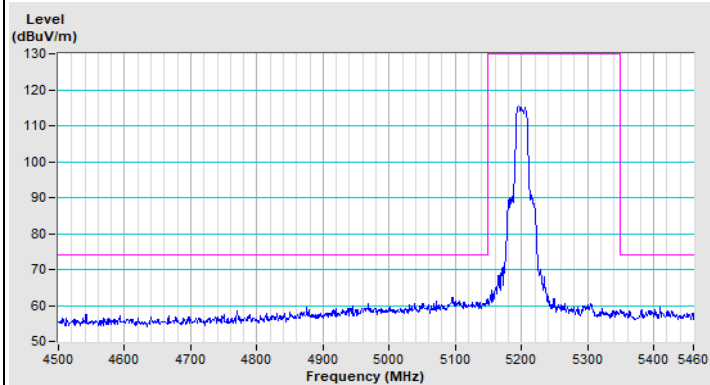
Plot of Band Edge

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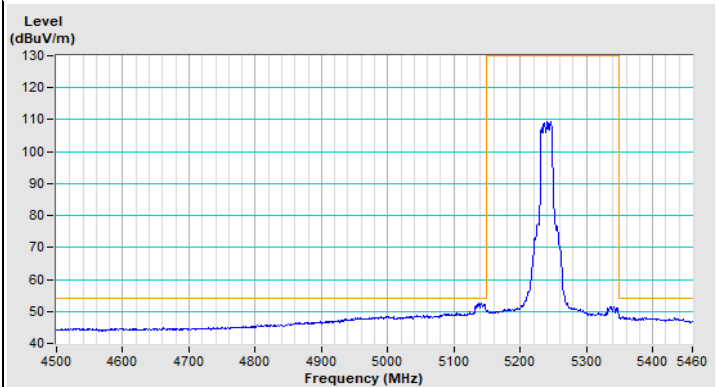
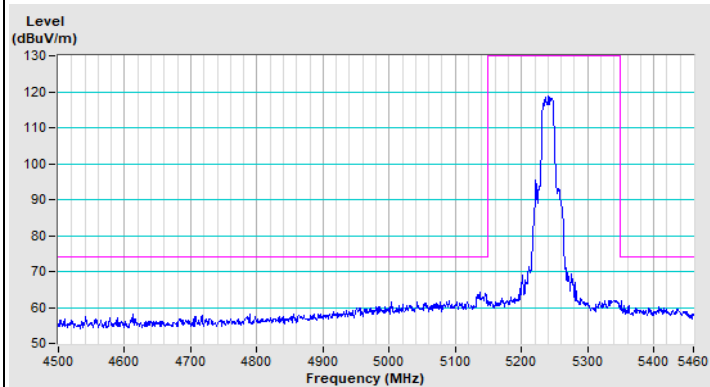
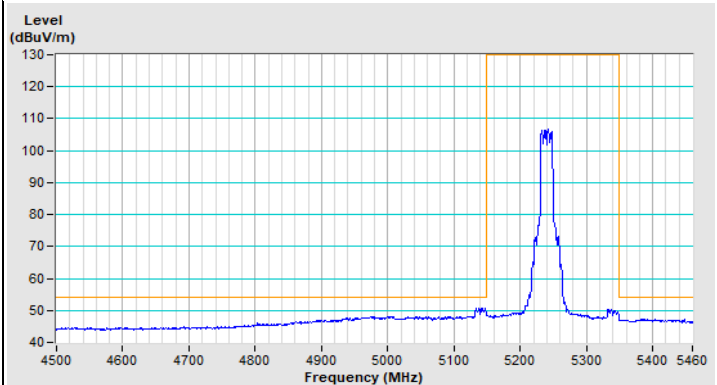
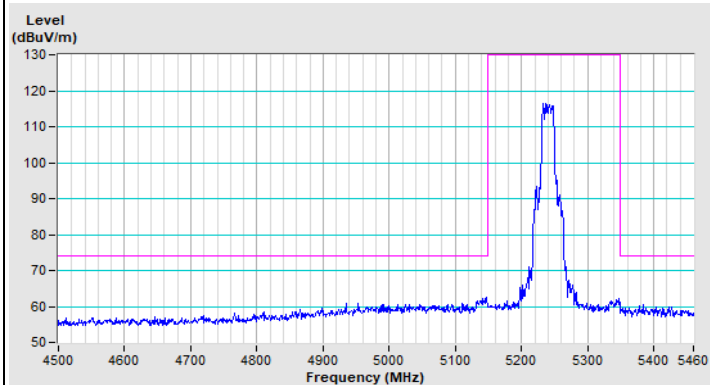
802.11a Channel 36



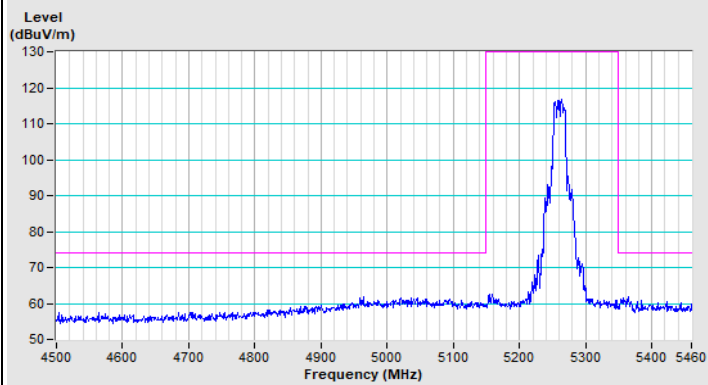
802.11a Channel 40



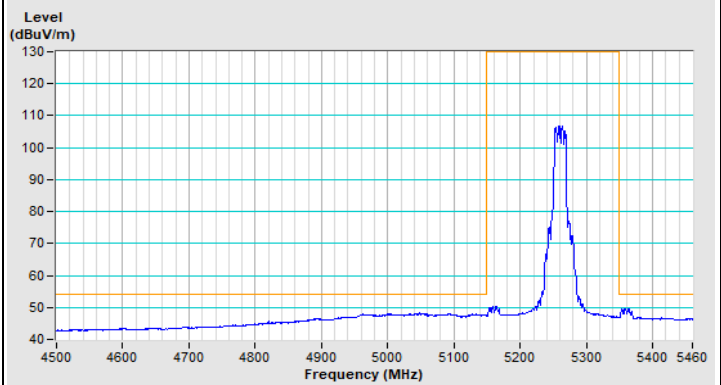
802.11a Channel 48



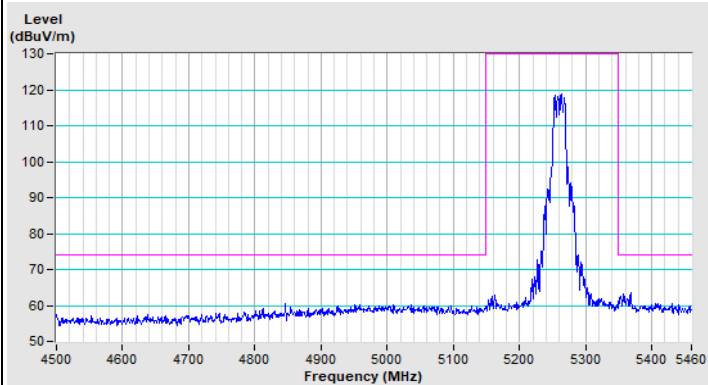
802.11a Channel 52



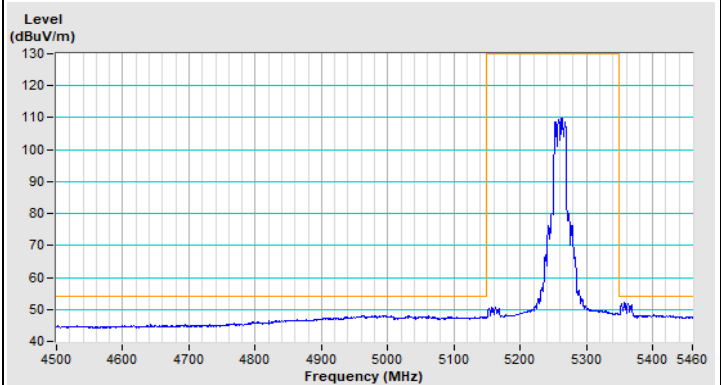
Horizontal (Peak)



Horizontal (Average)

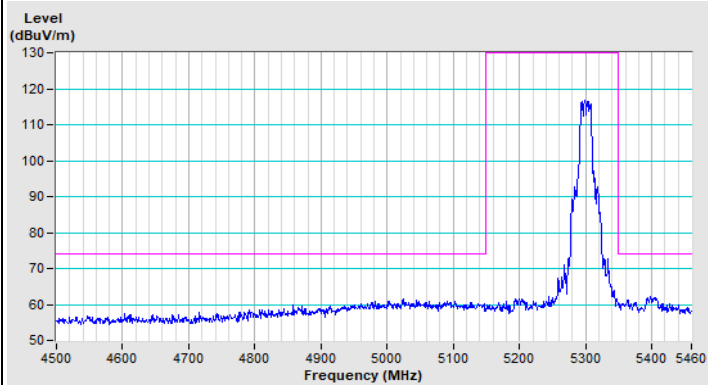


Vertical (Peak)

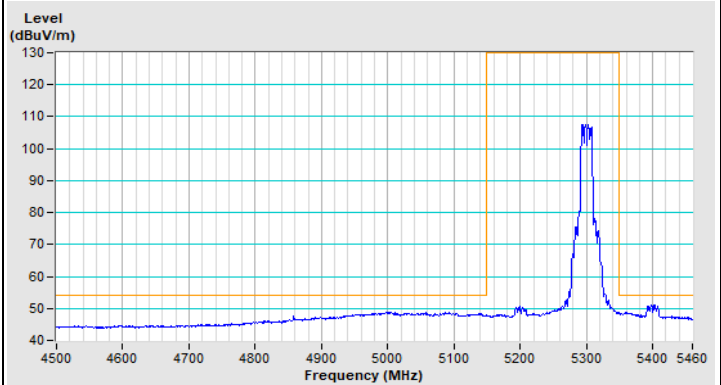


Vertical (Average)

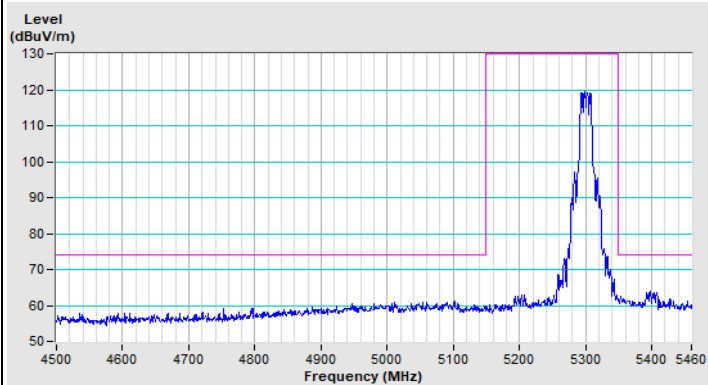
802.11a Channel 60



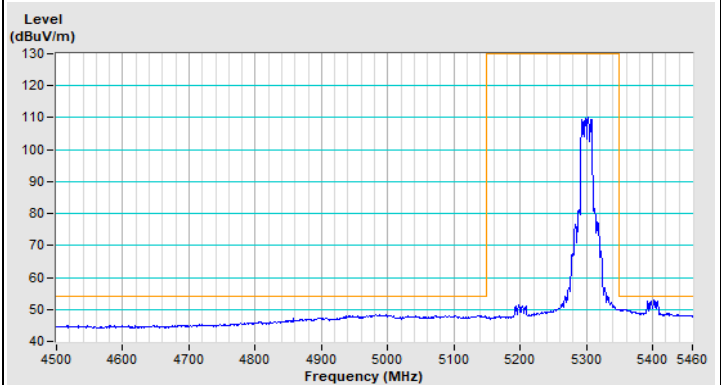
Horizontal (Peak)



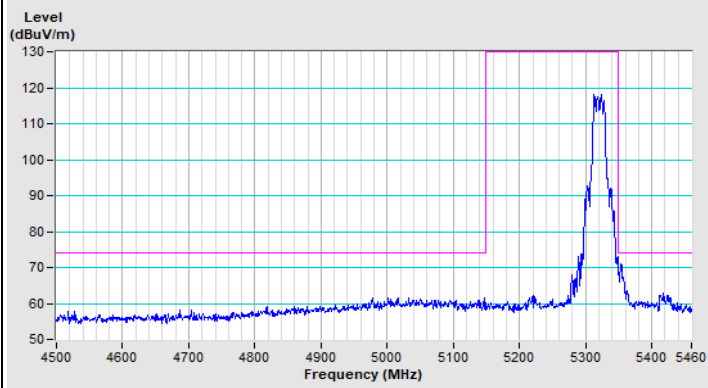
Horizontal (Average)



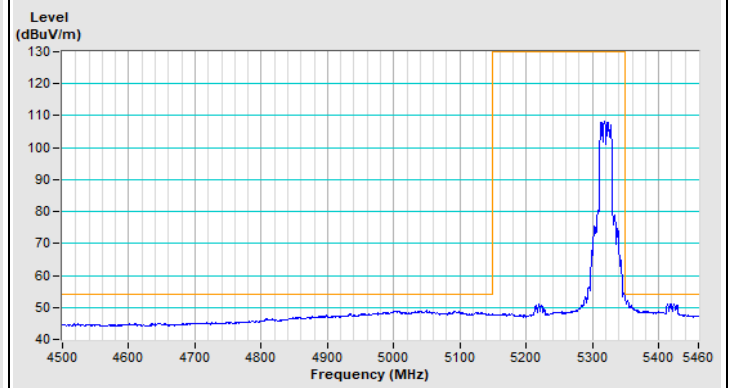
Vertical (Peak)



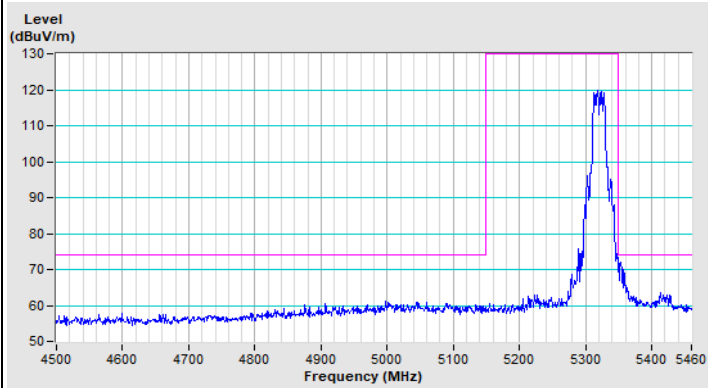
Vertical (Average)

802.11a Channel 64

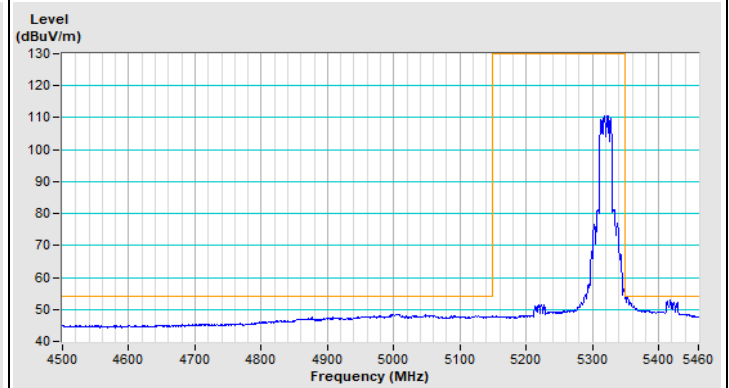
Horizontal (Peak)



Horizontal (Average)



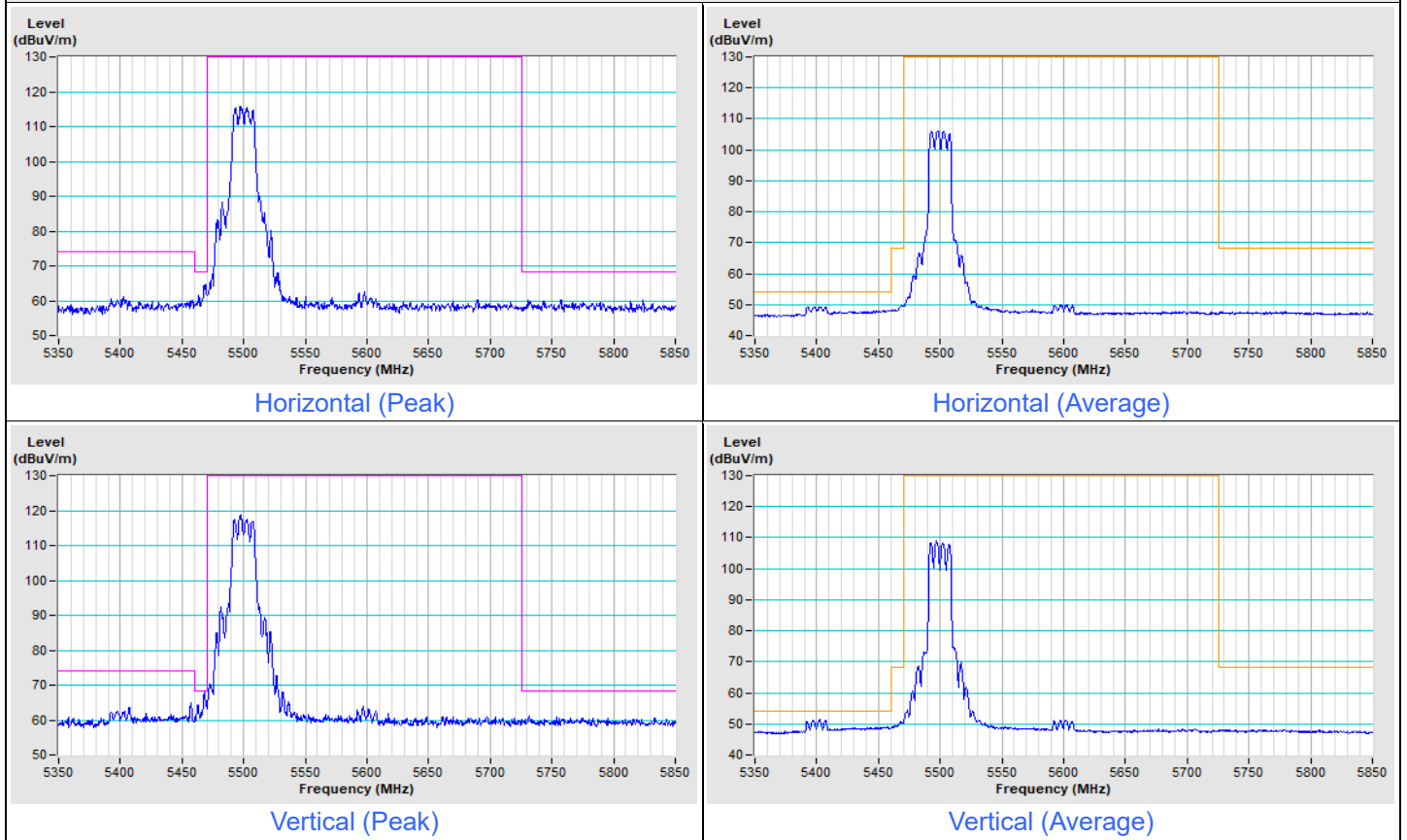
Vertical (Peak)



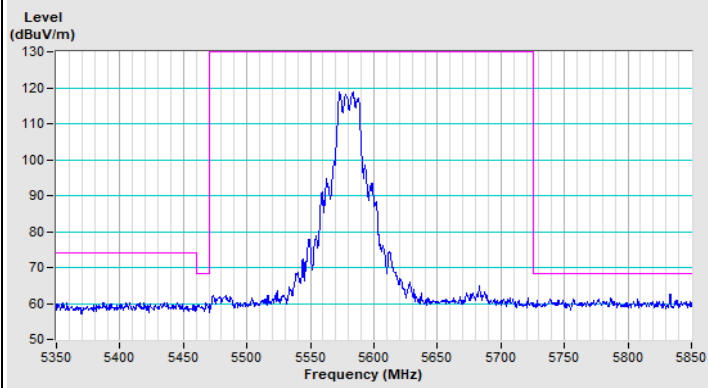
Vertical (Average)

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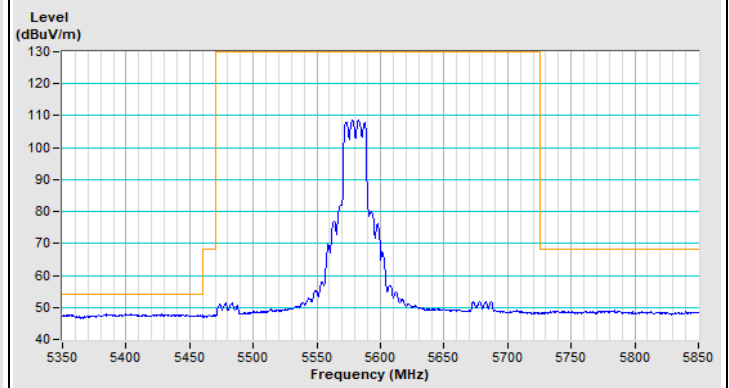
802.11a Channel 100



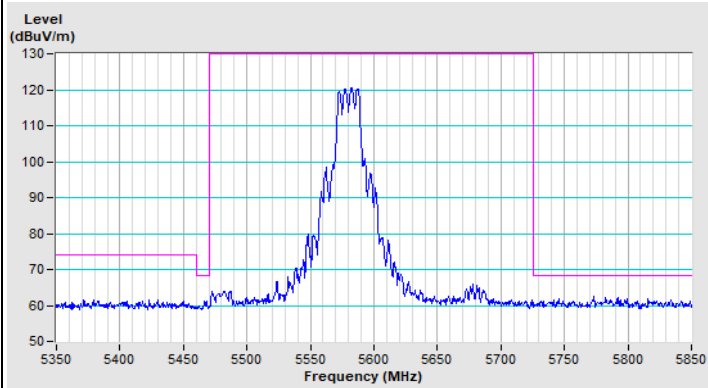
802.11a Channel 116



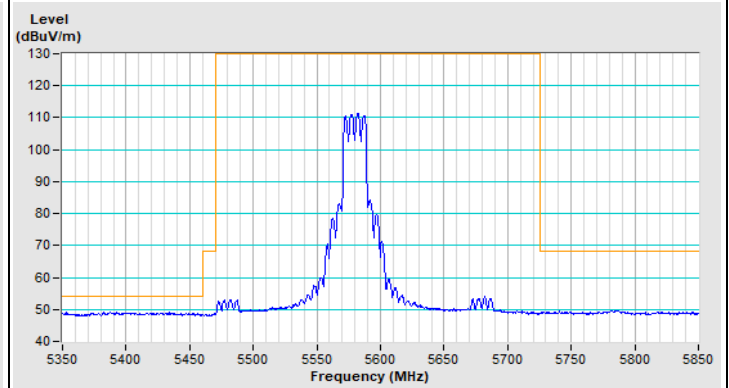
Horizontal (Peak)



Horizontal (Average)

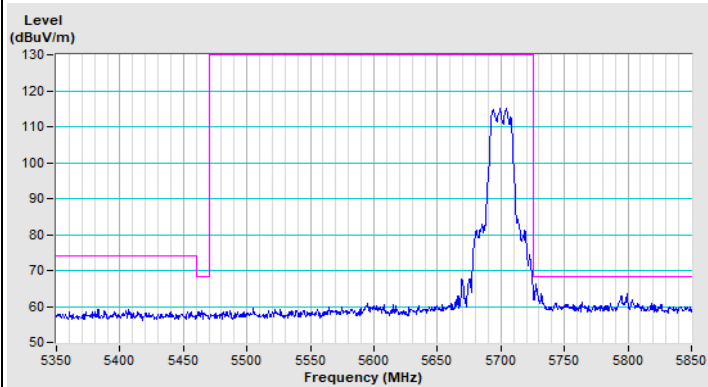


Vertical (Peak)

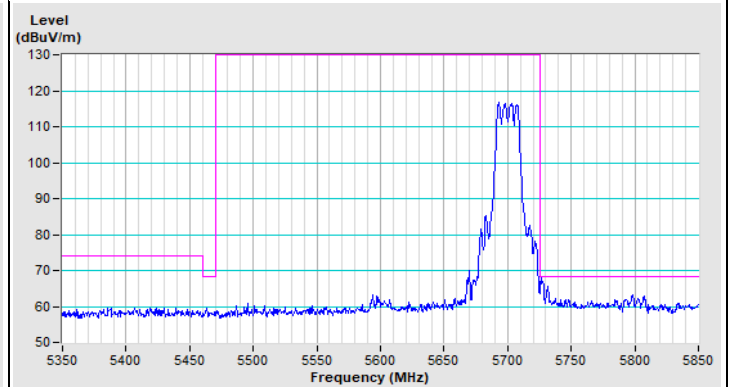


Vertical (Average)

802.11a Channel 140



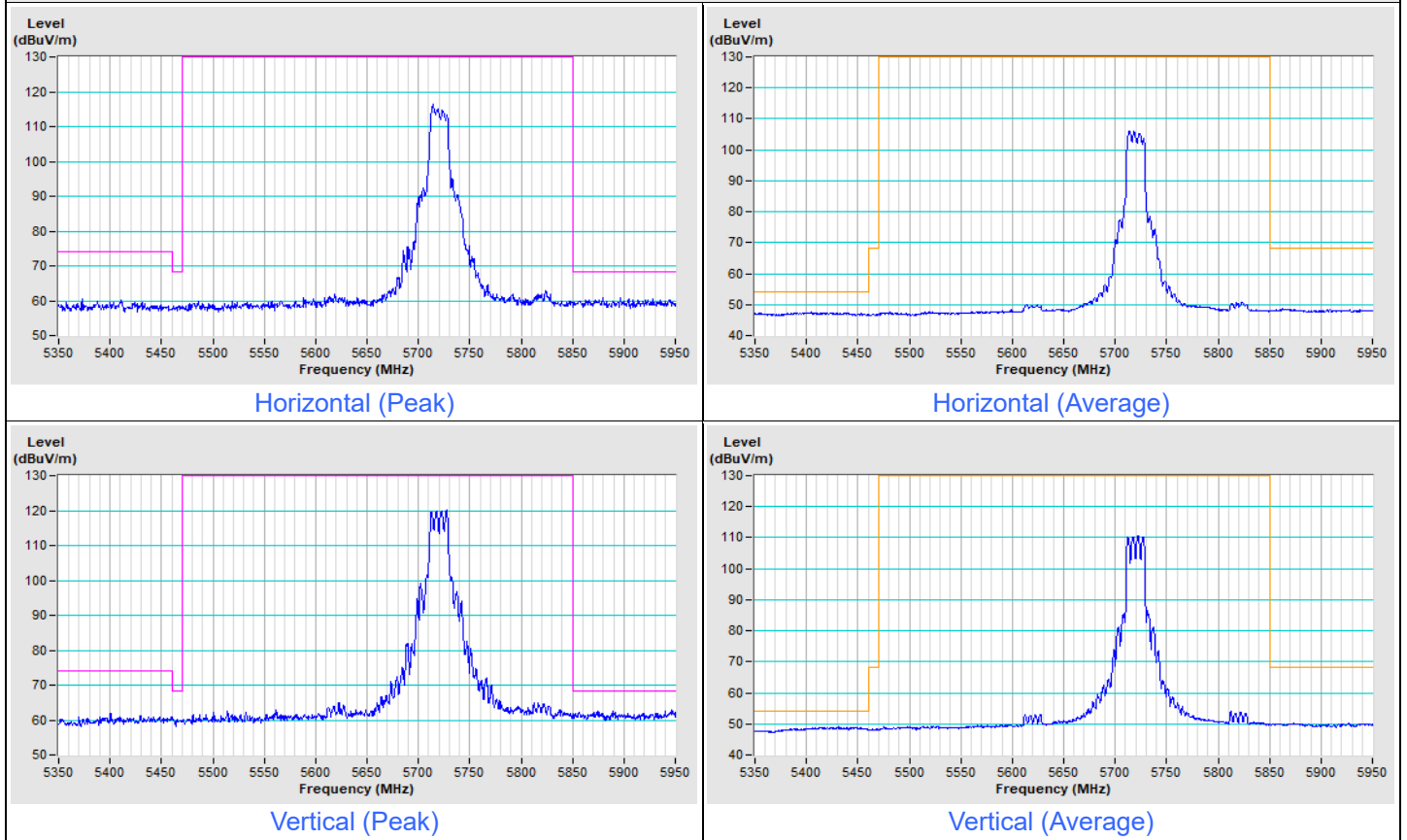
Horizontal (Peak)



Vertical (Peak)

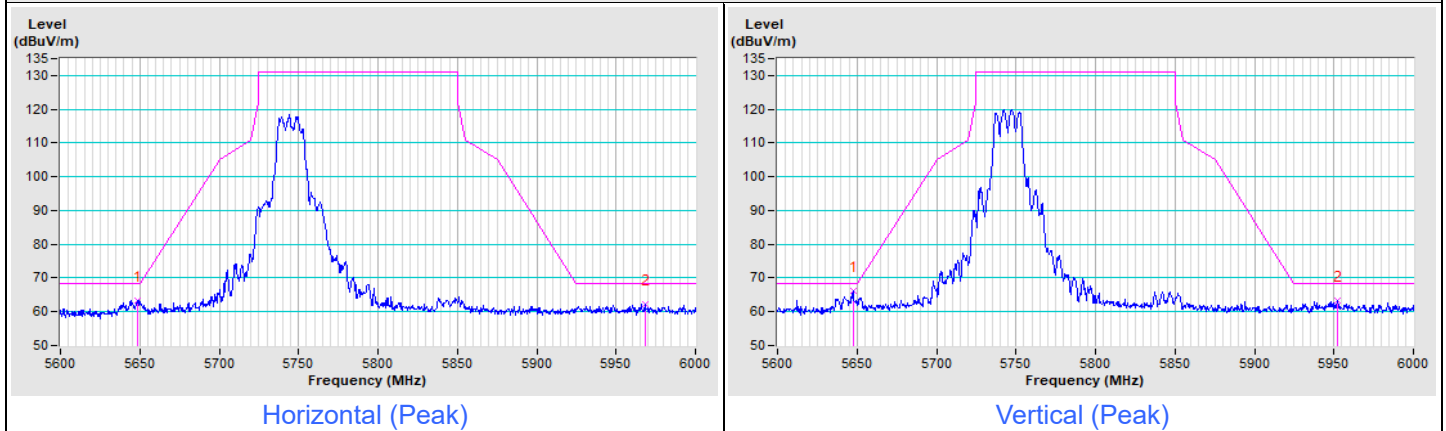
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11a Channel 144

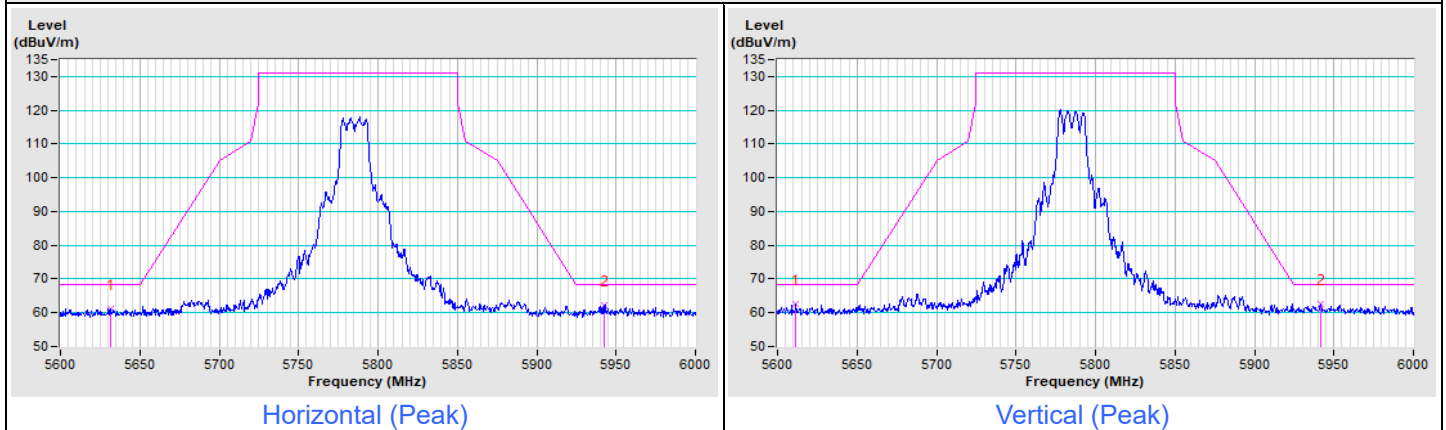


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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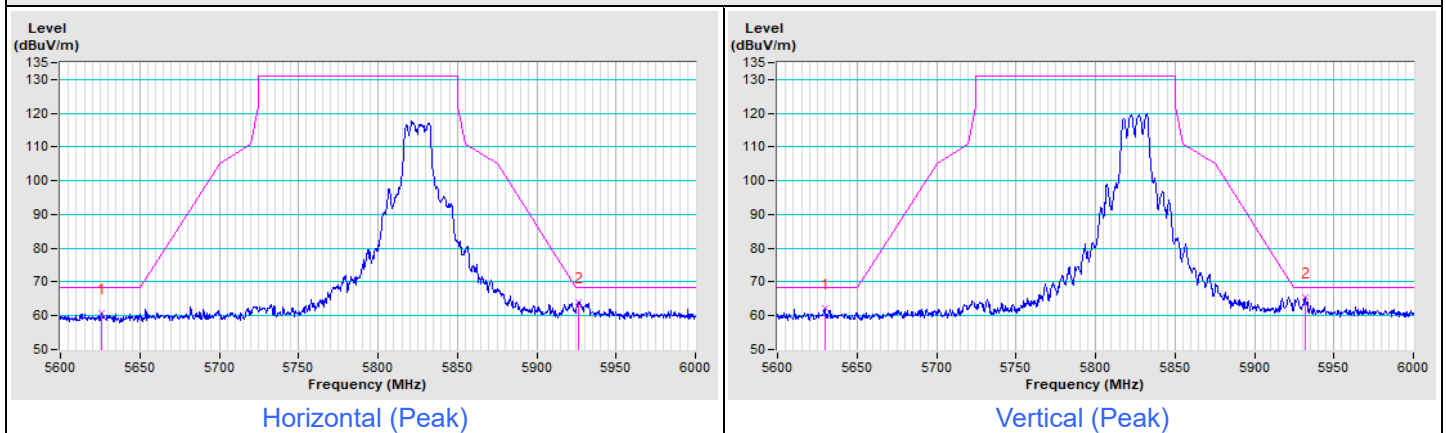
802.11a Channel 149



802.11a Channel 157

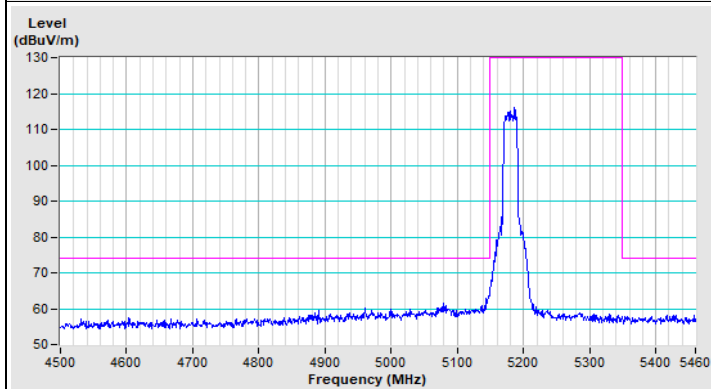


802.11a Channel 165

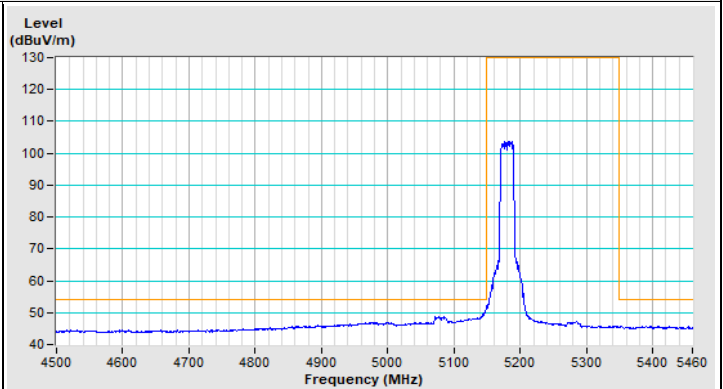


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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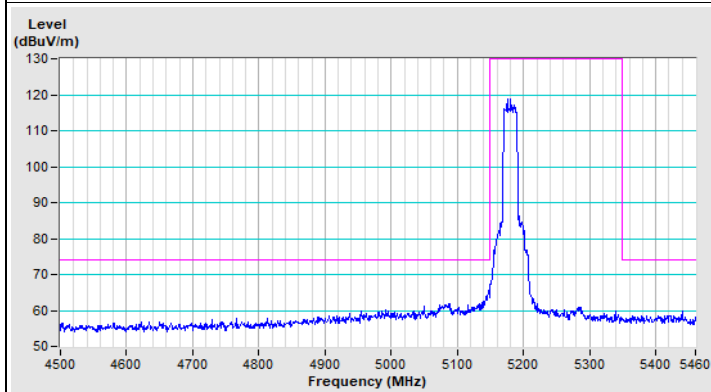
802.11ax (HE20) Channel 36



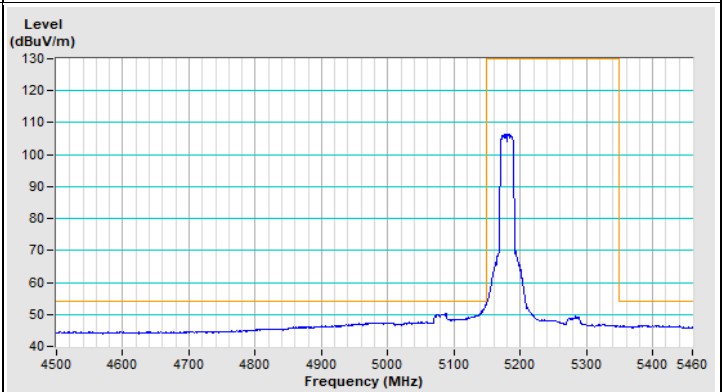
Horizontal (Peak)



Horizontal (Average)

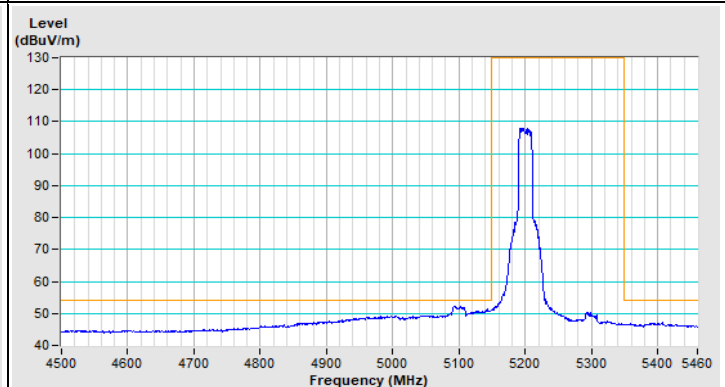
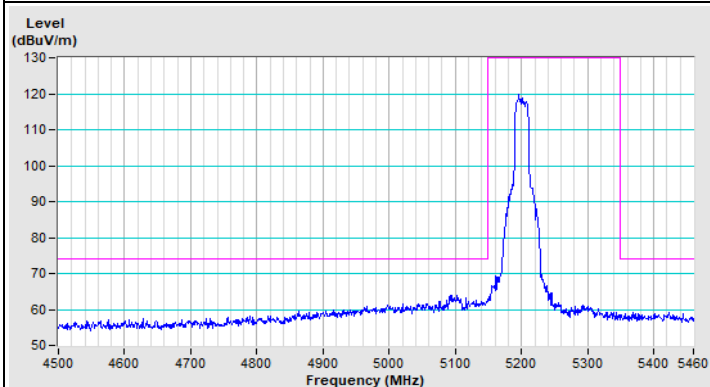
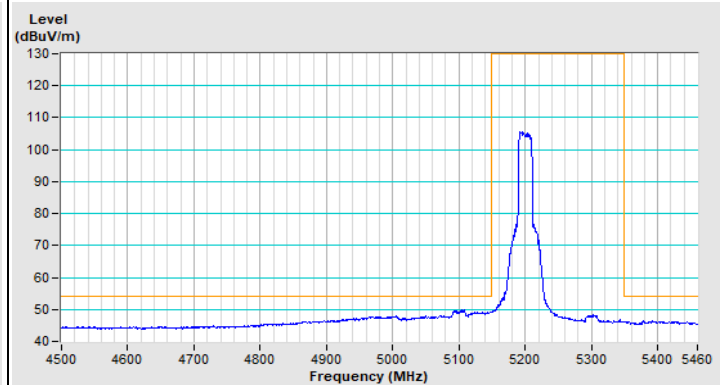
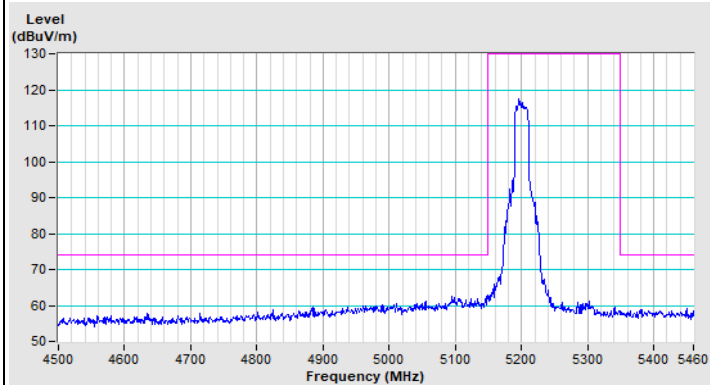


Vertical (Peak)

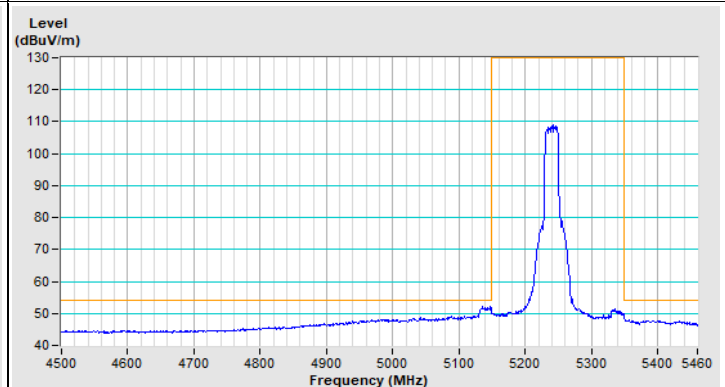
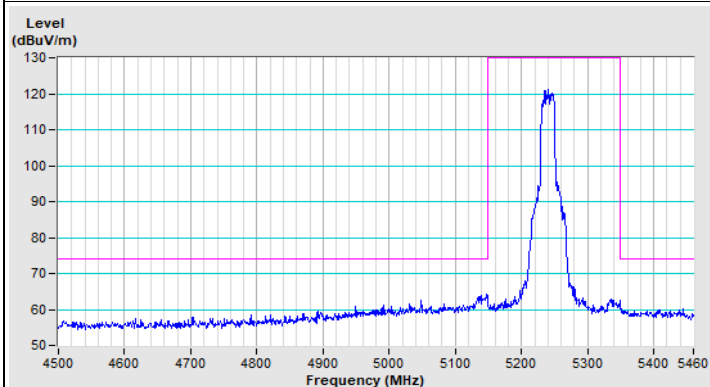
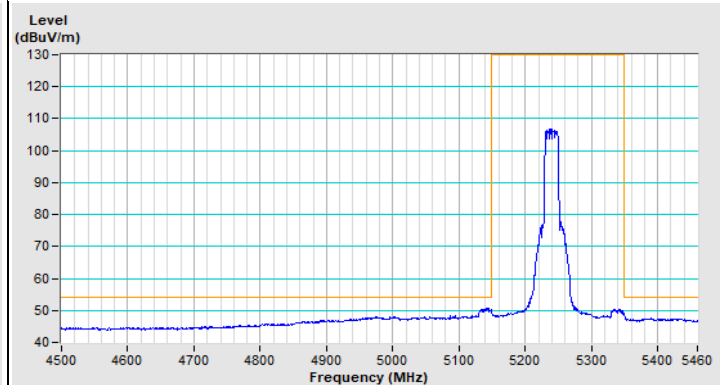
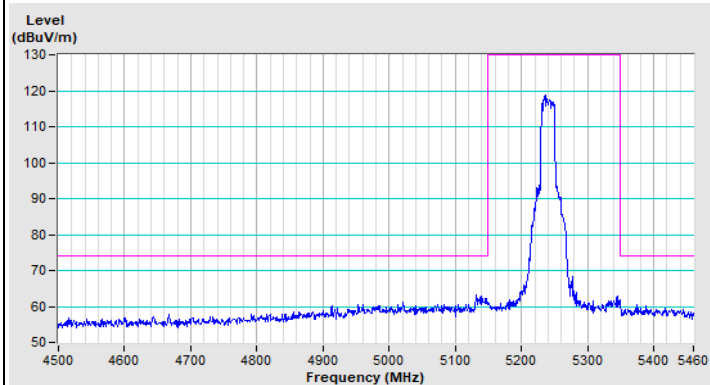


Vertical (Average)

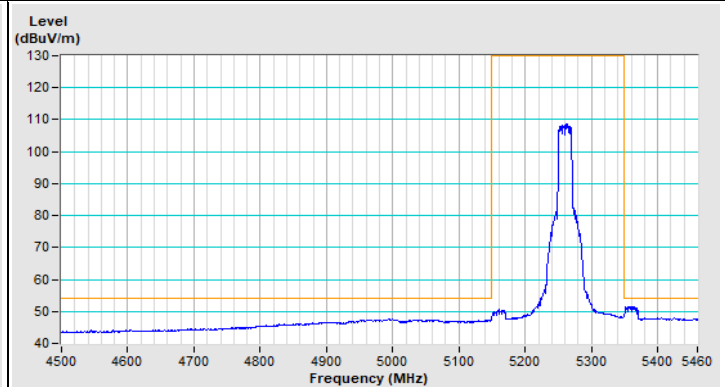
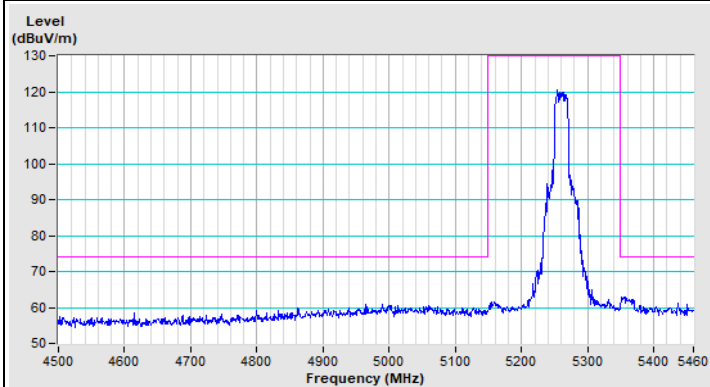
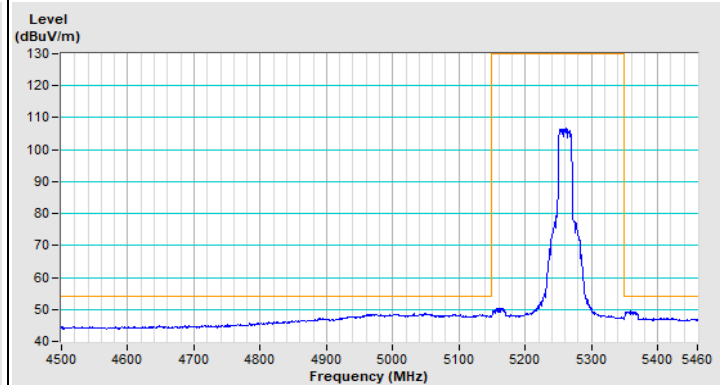
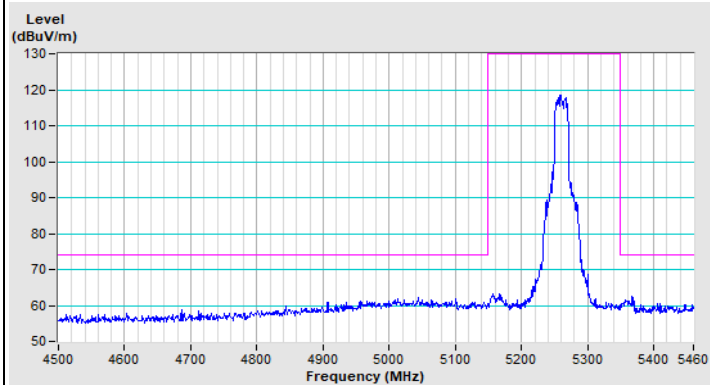
802.11ax (HE20) Channel 40



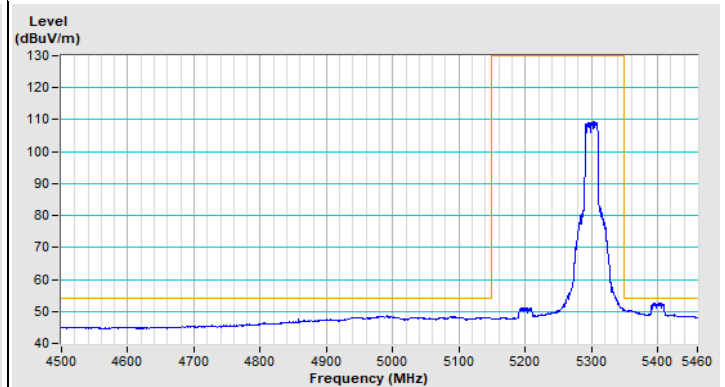
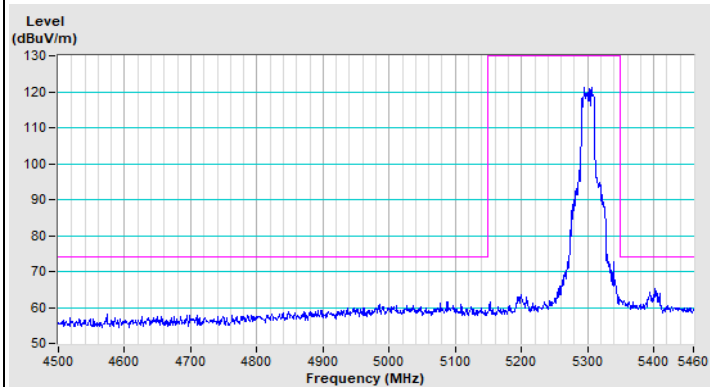
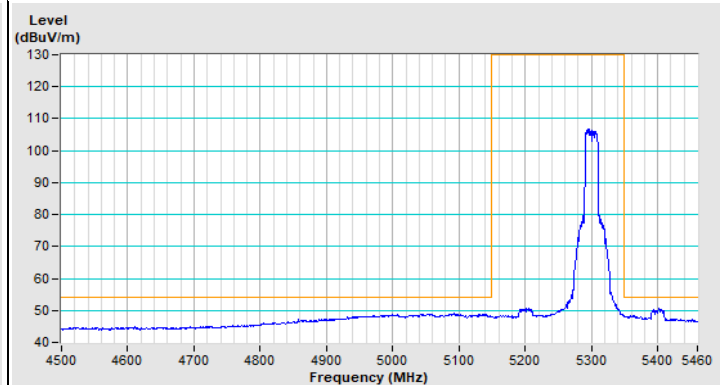
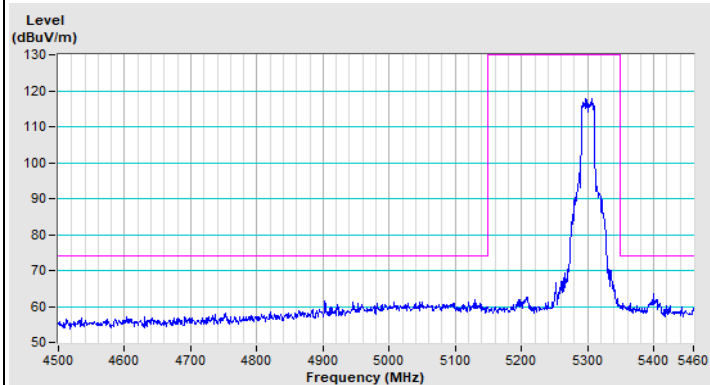
802.11ax (HE20) Channel 48



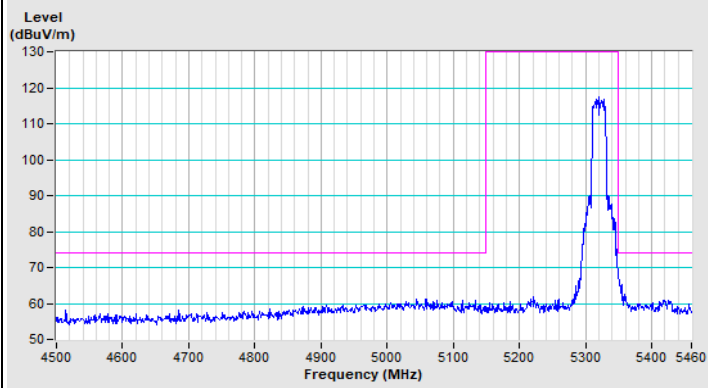
802.11ax (HE20) Channel 52



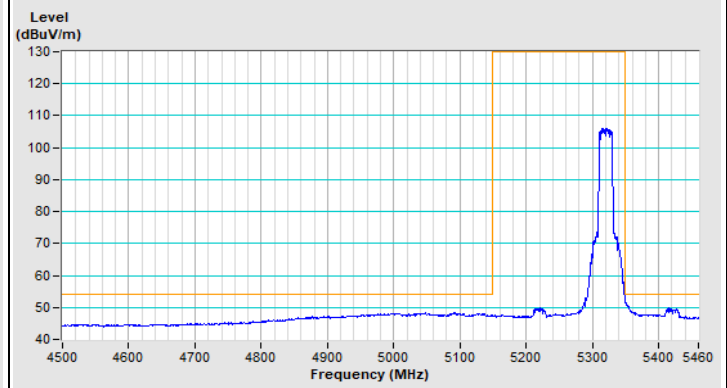
802.11ax (HE20) Channel 60



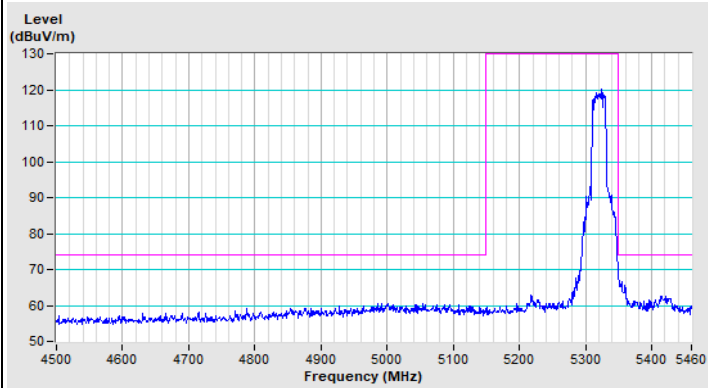
802.11ax (HE20) Channel 64



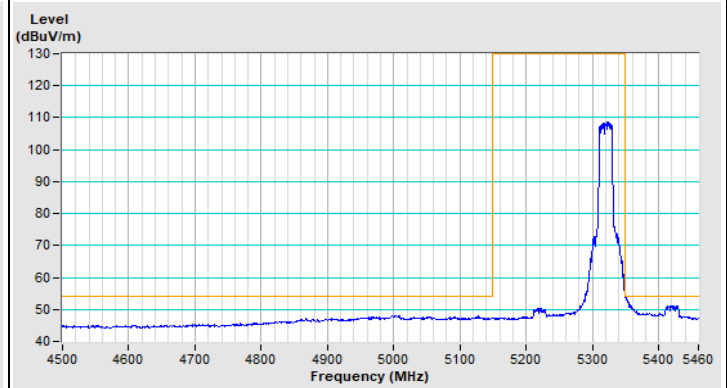
Horizontal (Peak)



Horizontal (Average)



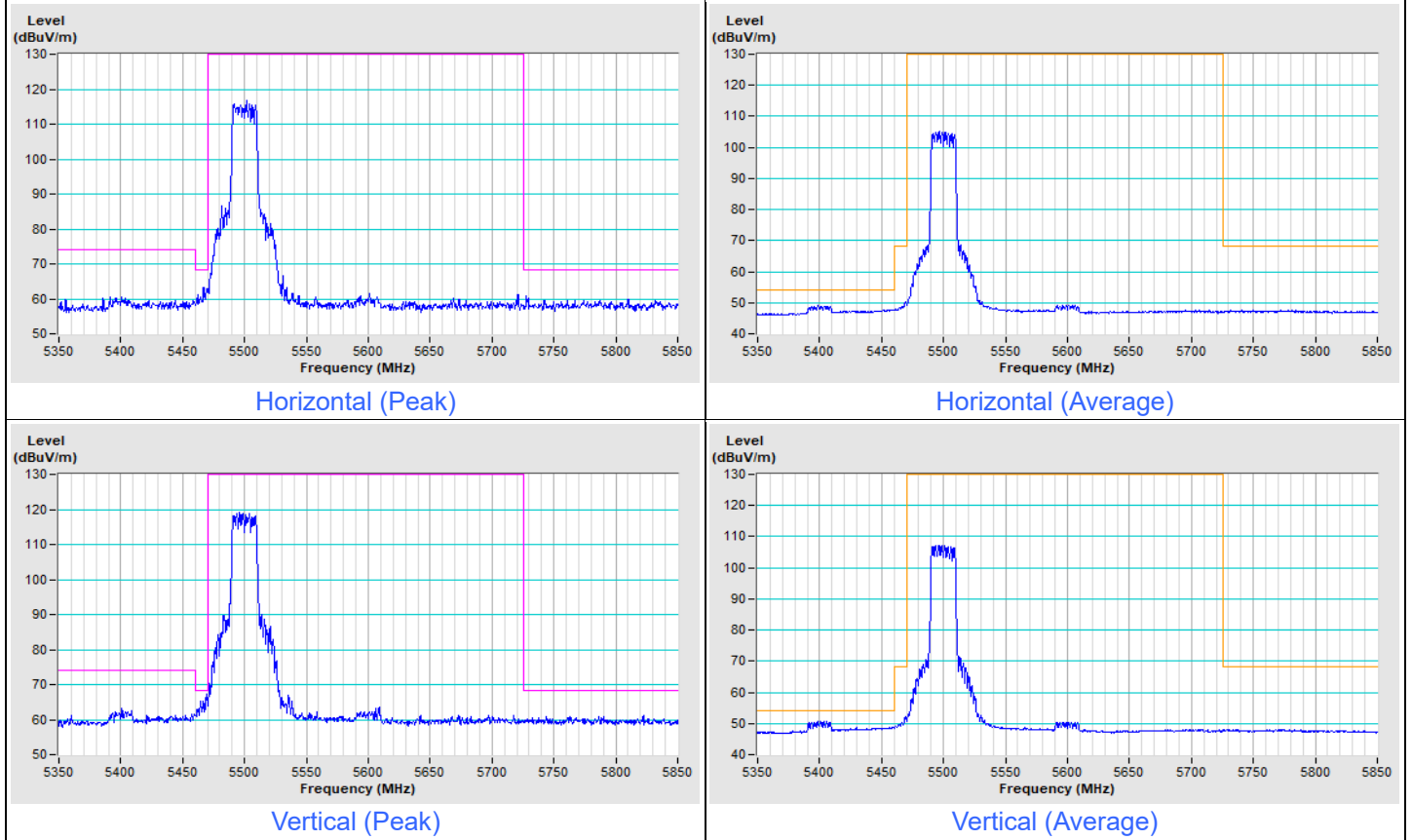
Vertical (Peak)



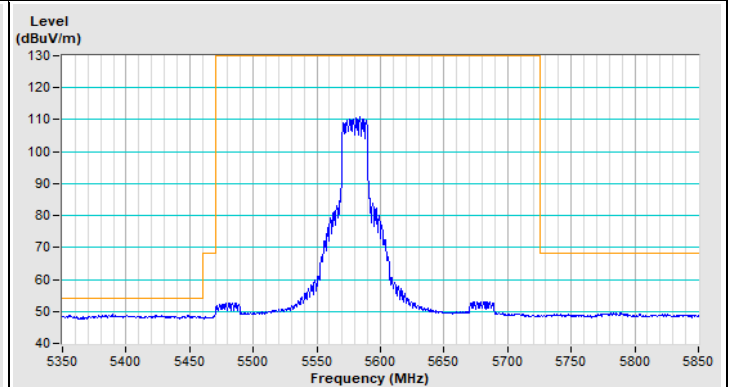
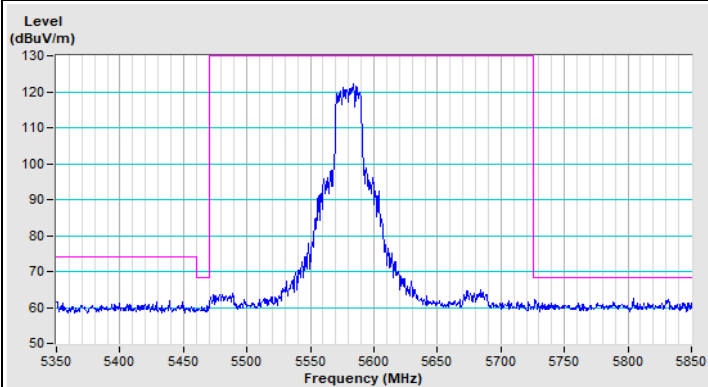
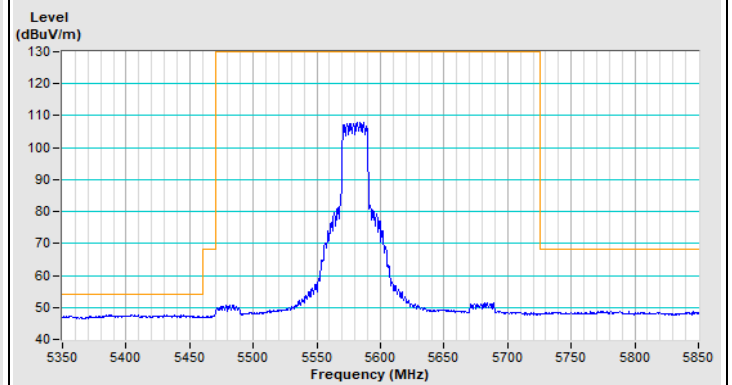
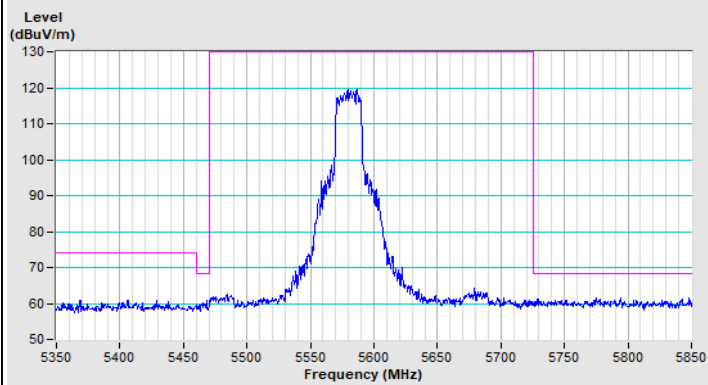
Vertical (Average)

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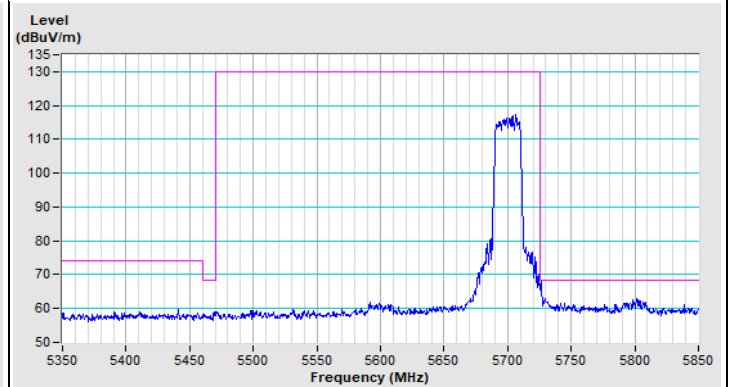
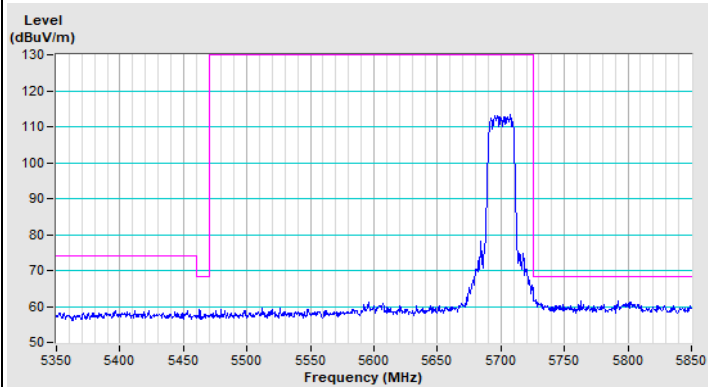
802.11ax (HE20) Channel 100



802.11ax (HE20) Channel 116

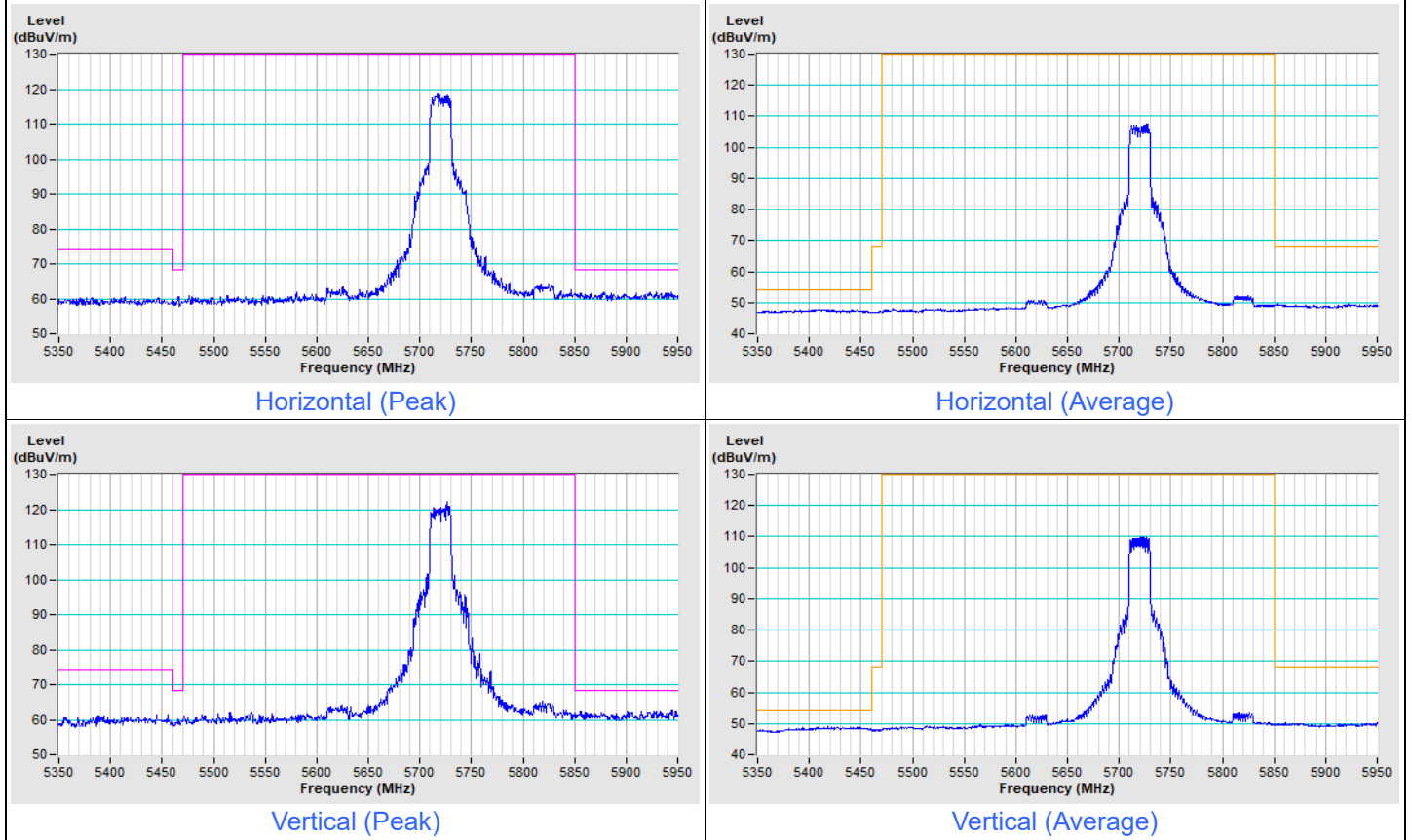


802.11ax (HE20) Channel 140



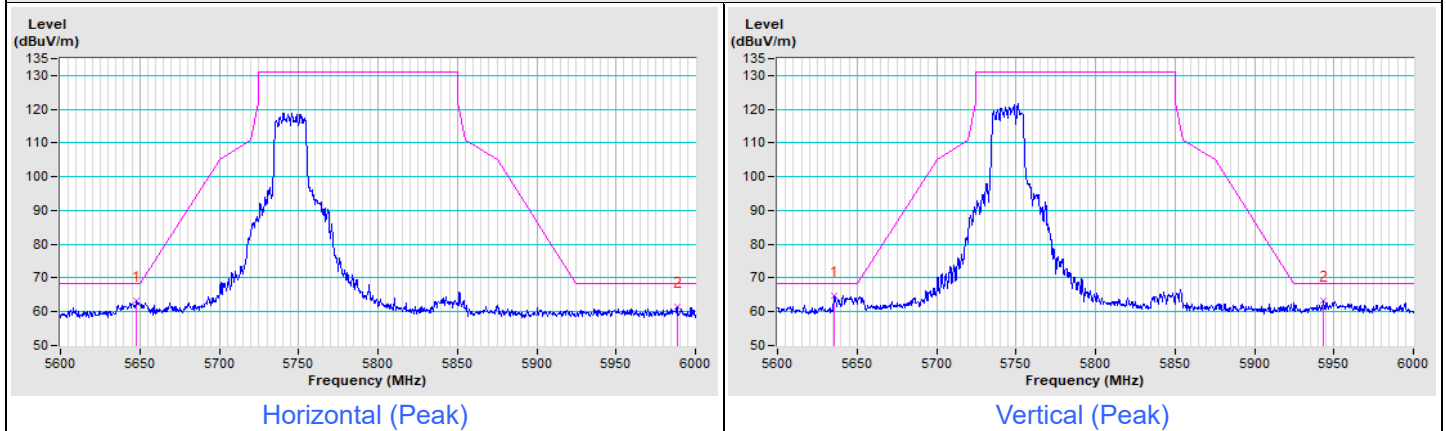
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE20) Channel 144

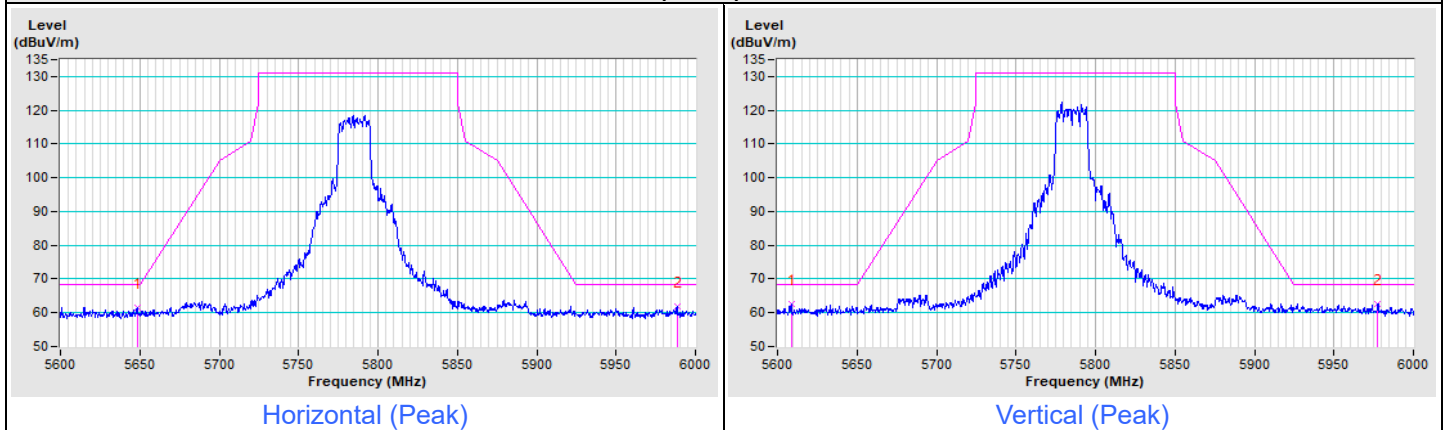


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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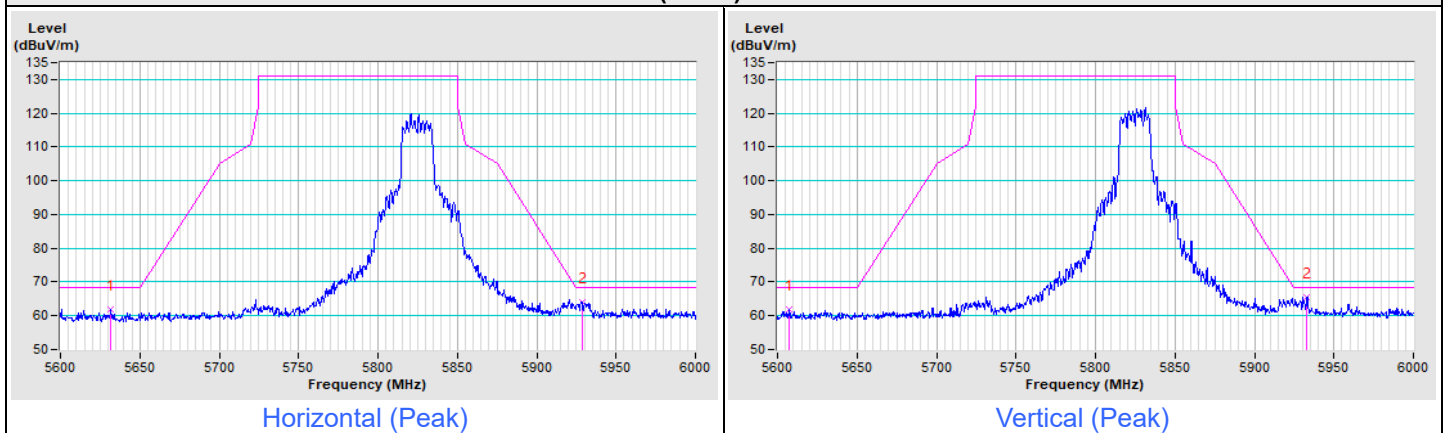
802.11ax (HE20) Channel 149



802.11ax (HE20) Channel 157

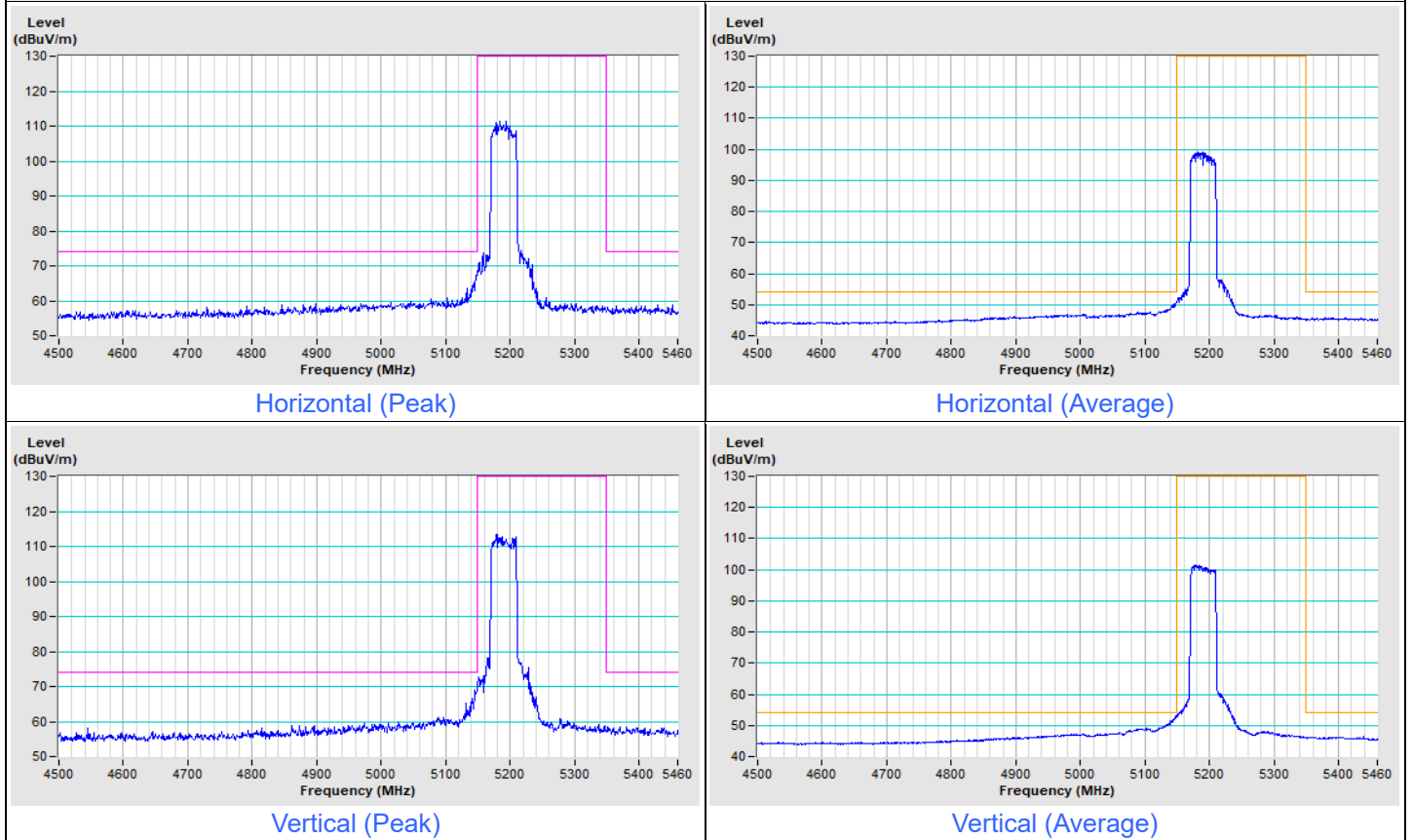


802.11ax (HE20) Channel 165

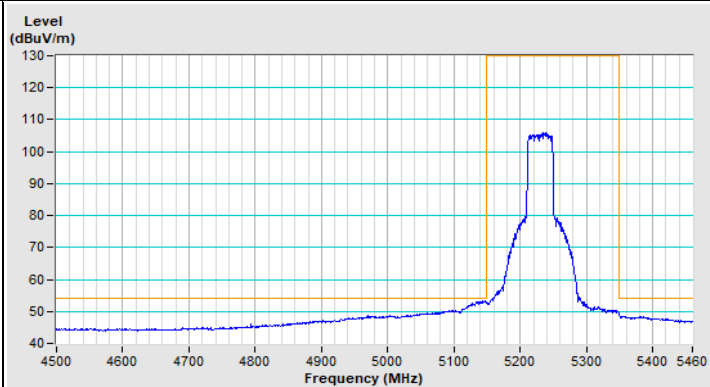
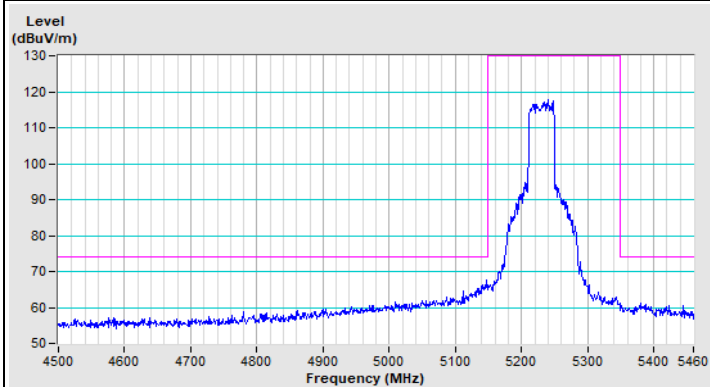
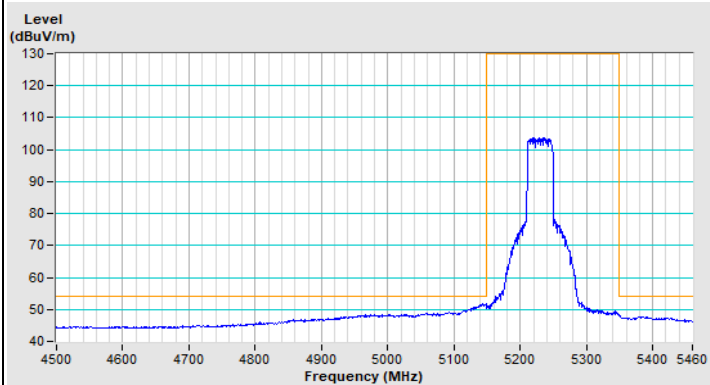
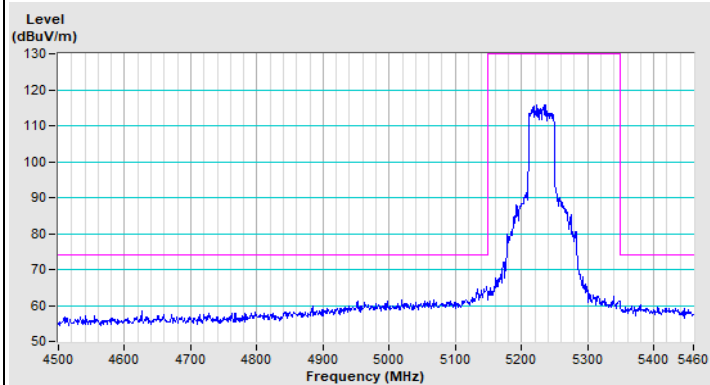


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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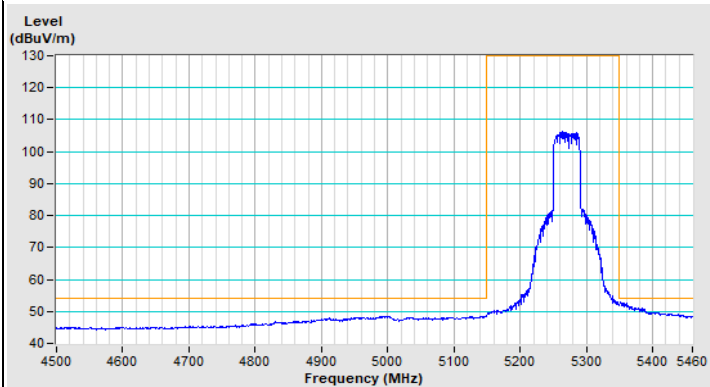
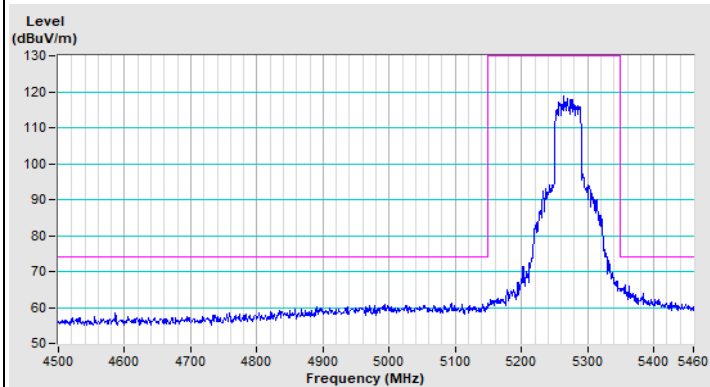
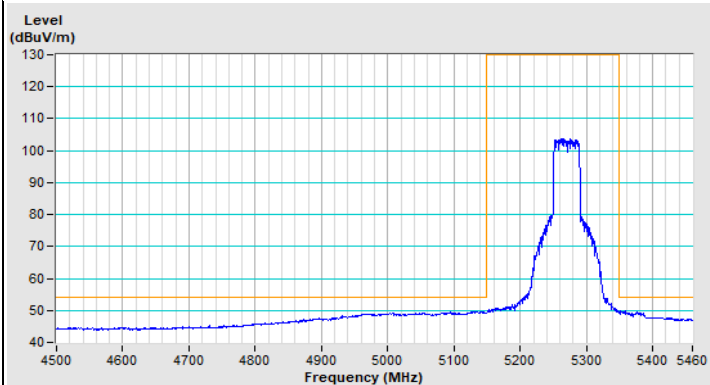
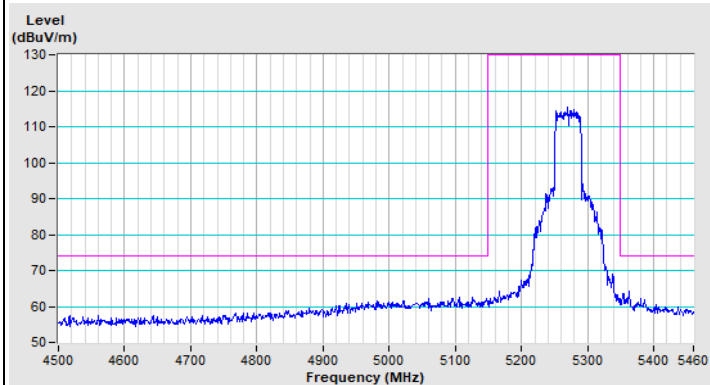
802.11ax (HE40) Channel 38

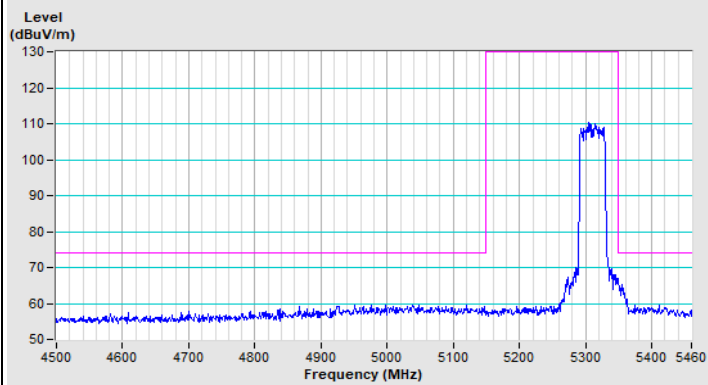


802.11ax (HE40) Channel 46

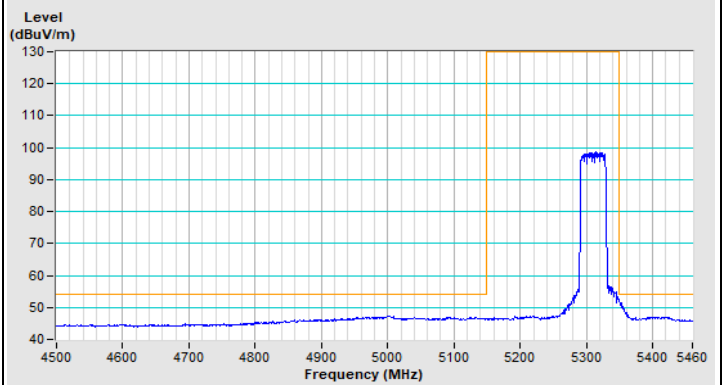


802.11ax (HE40) Channel 54

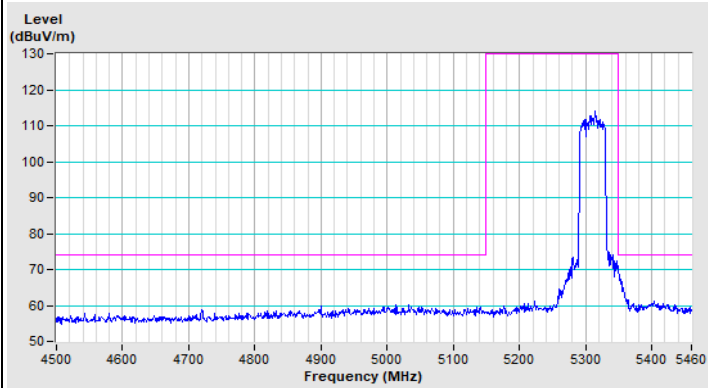


802.11ax (HE40) Channel 62

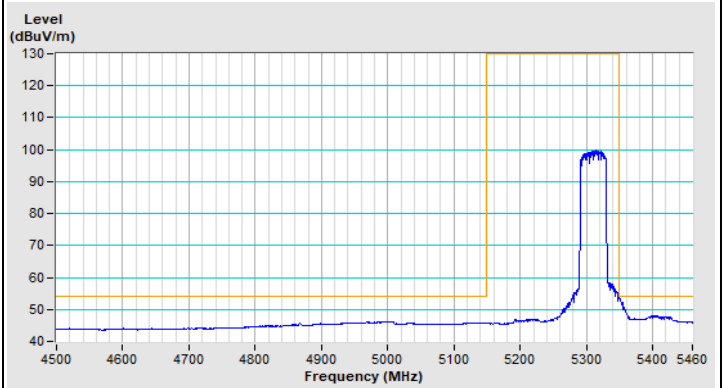
Horizontal (Peak)



Horizontal (Average)



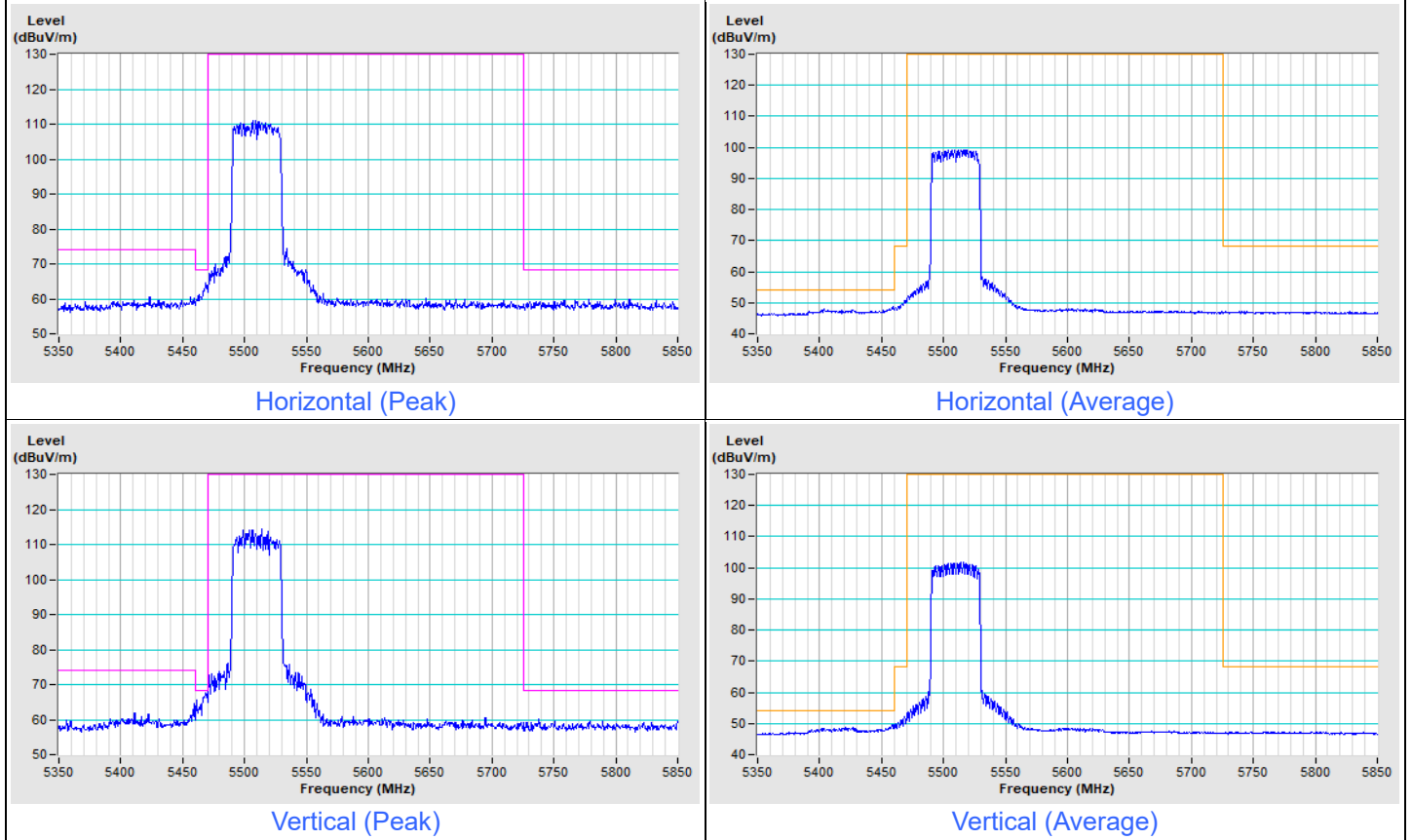
Vertical (Peak)



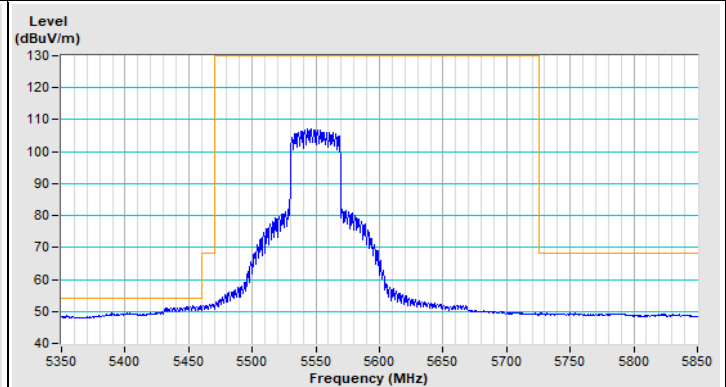
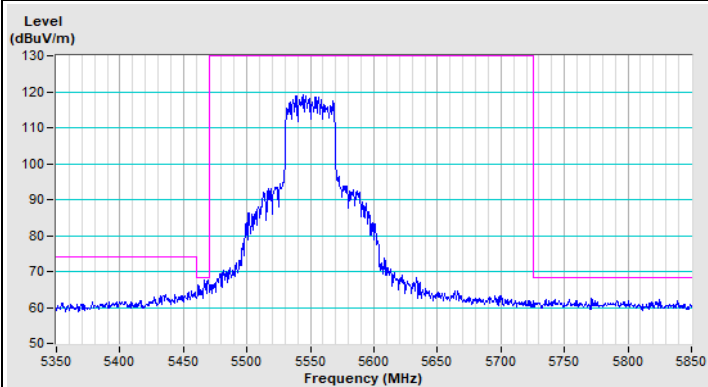
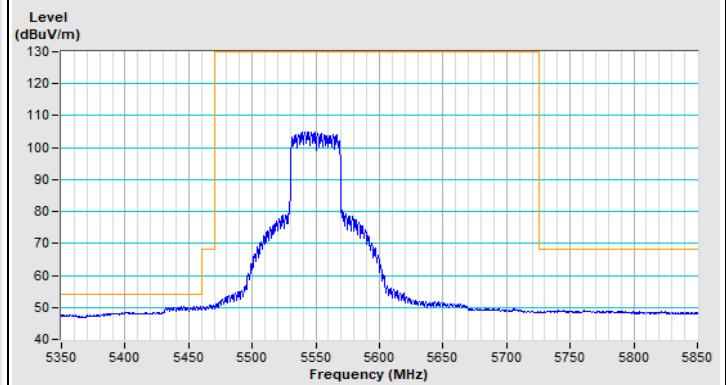
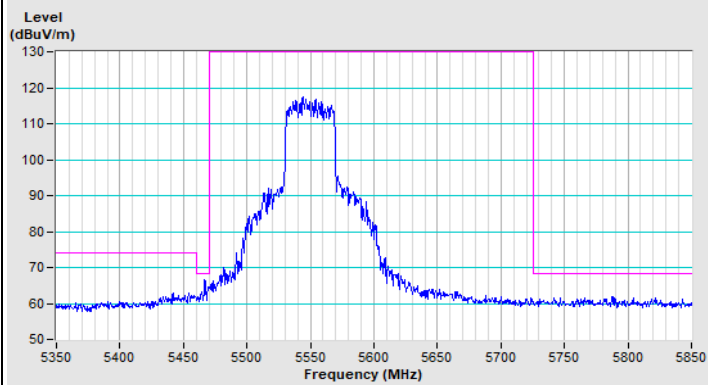
Vertical (Average)

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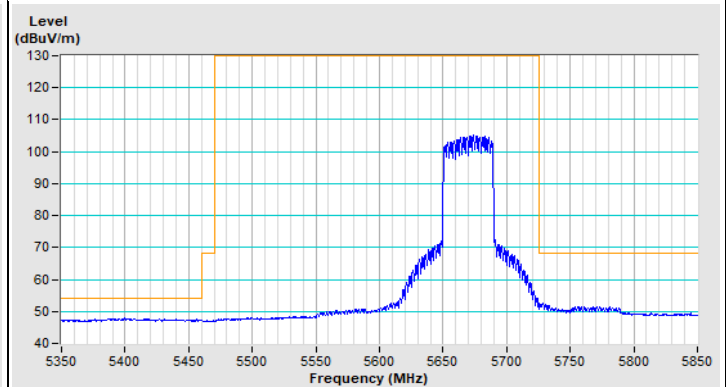
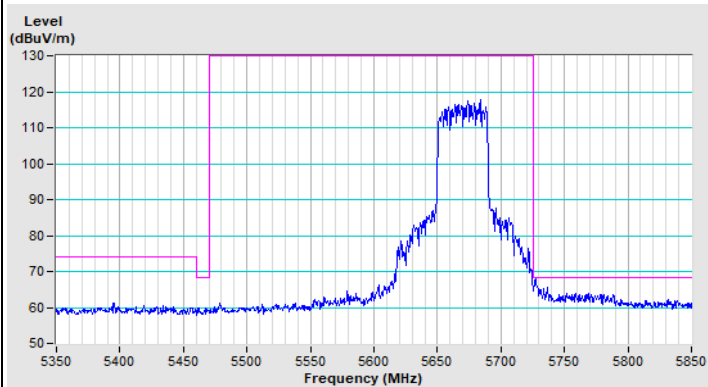
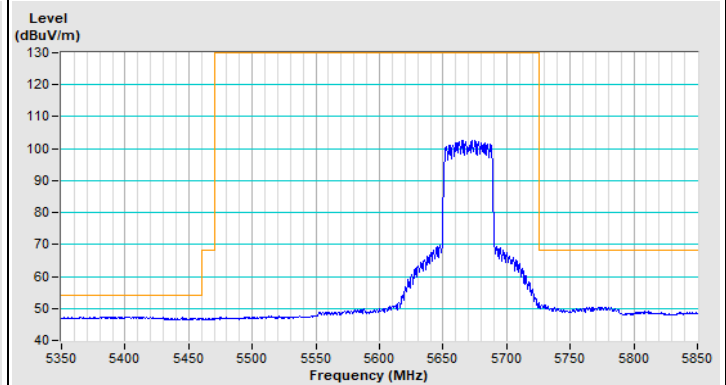
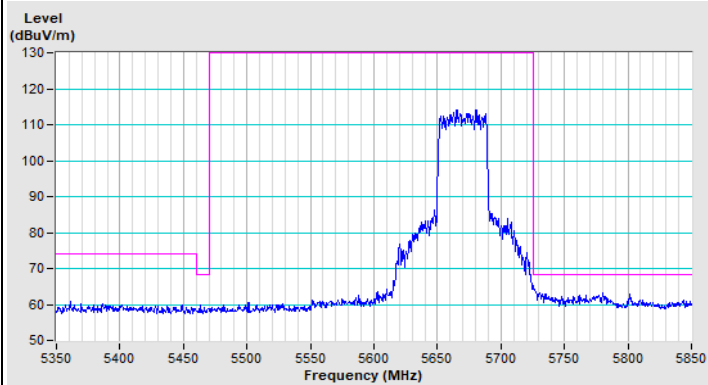
802.11ax (HE40) Channel 102



802.11ax (HE40) Channel 110

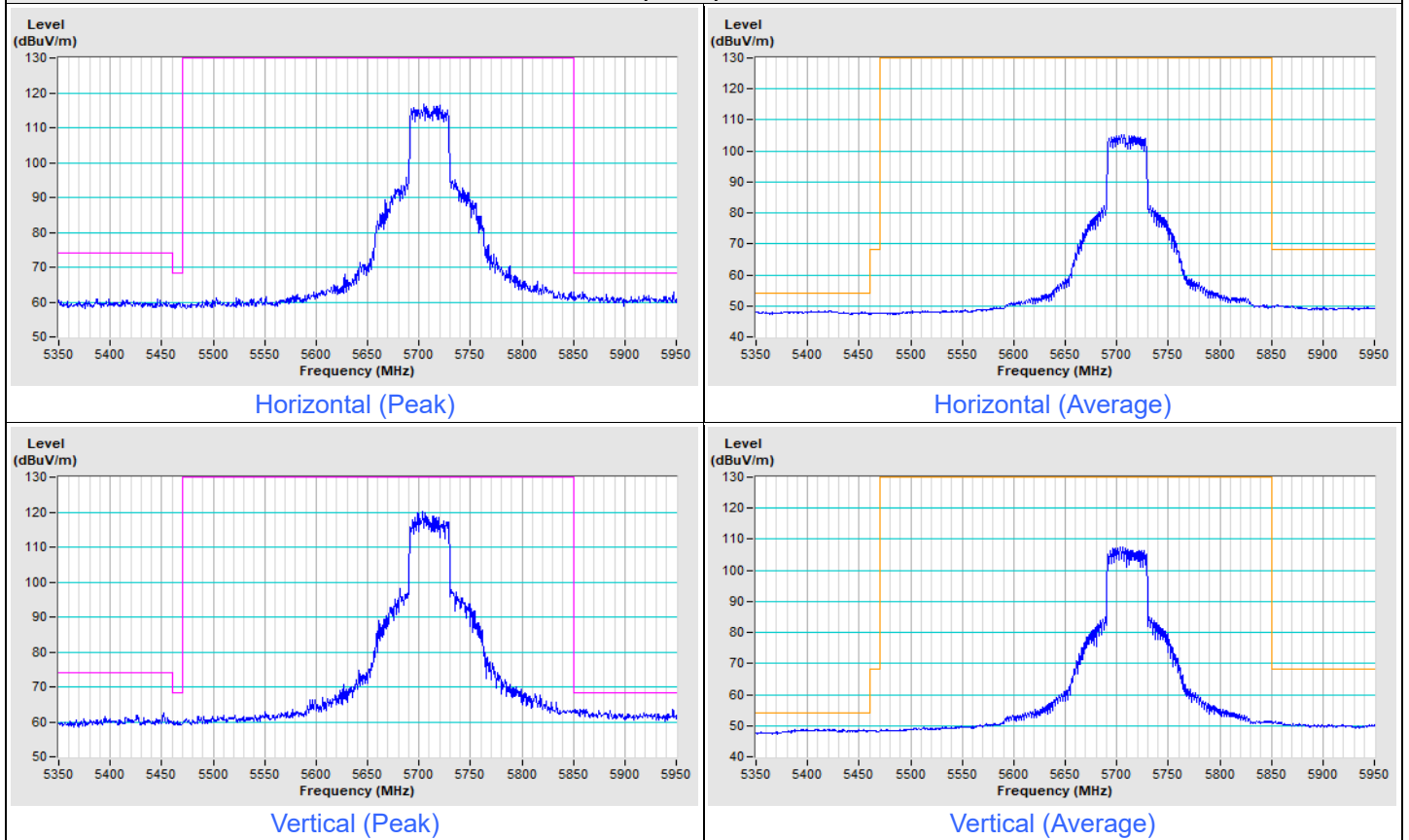


802.11ax (HE40) Channel 134



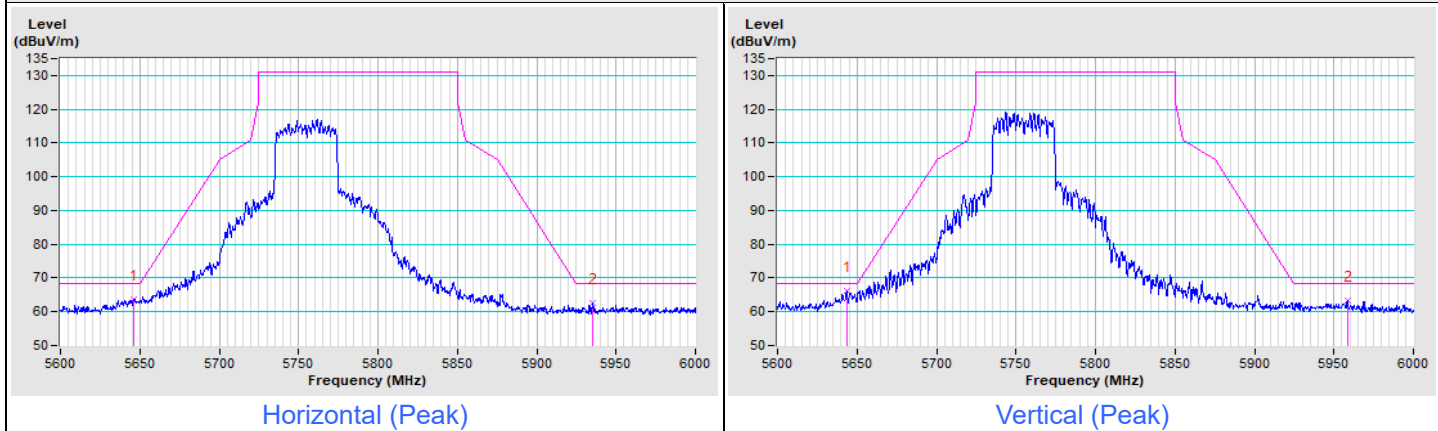
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE40) Channel 142

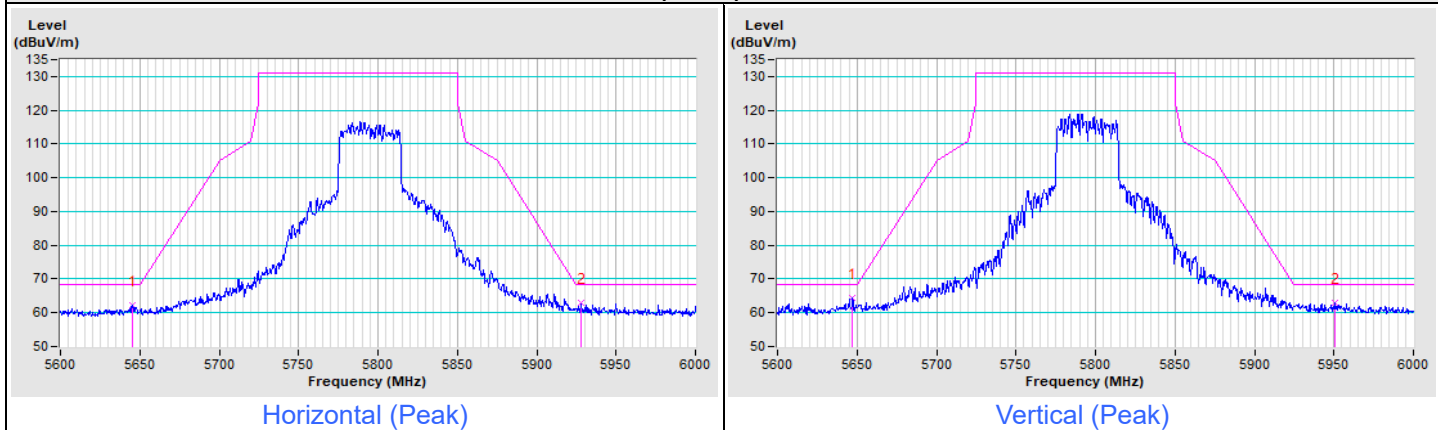


Frequency Range	5.6 GHz ~ 6 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11ax (HE40) Channel 151

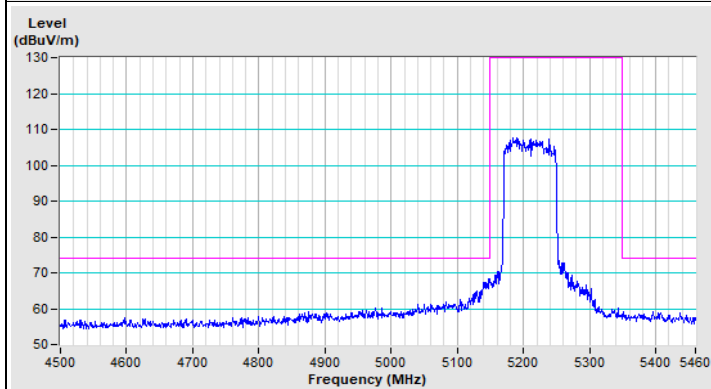


802.11ax (HE40) Channel 159

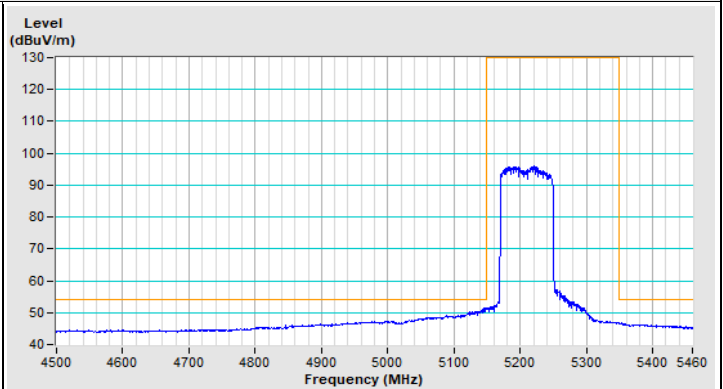


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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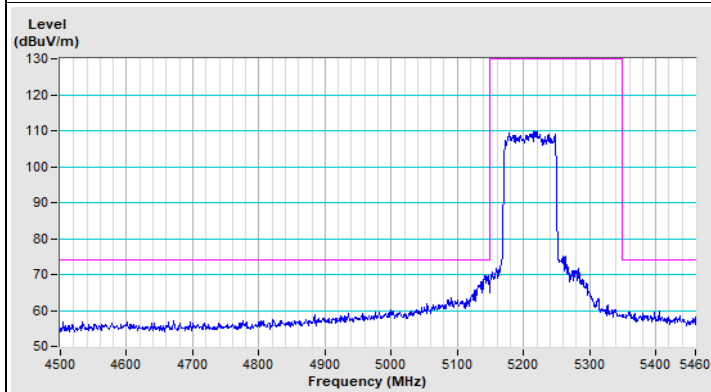
802.11ax (HE80) Channel 42



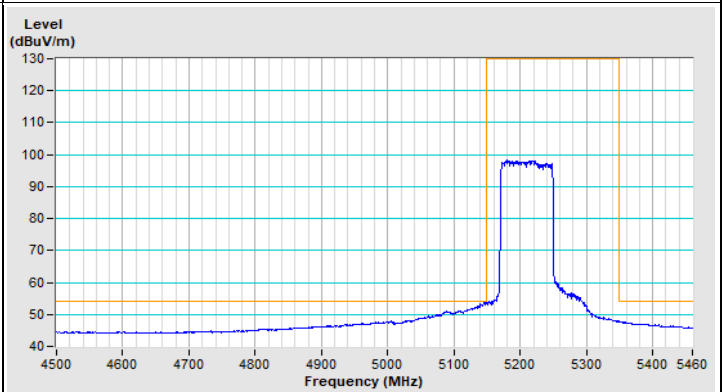
Horizontal (Peak)



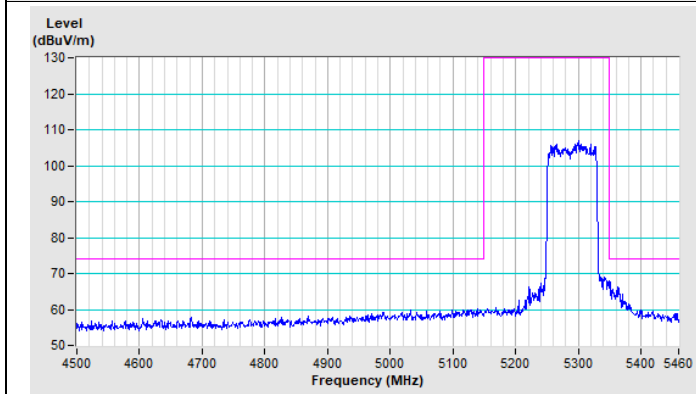
Horizontal (Average)



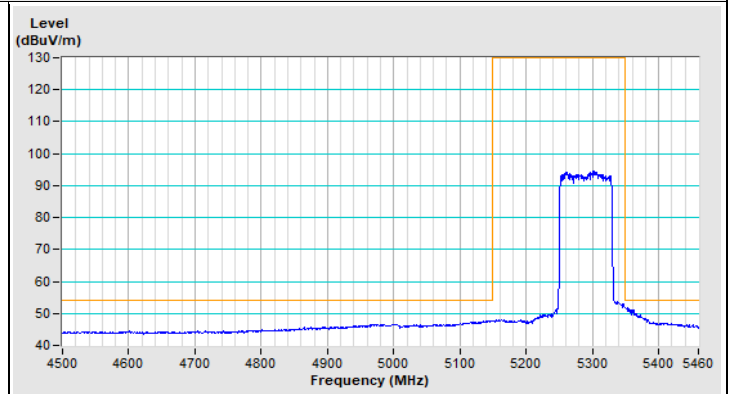
Vertical (Peak)



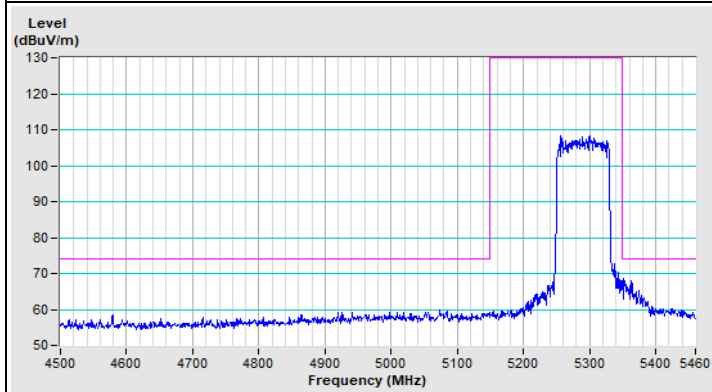
Vertical (Average)

802.11ax (HE80) Channel 58

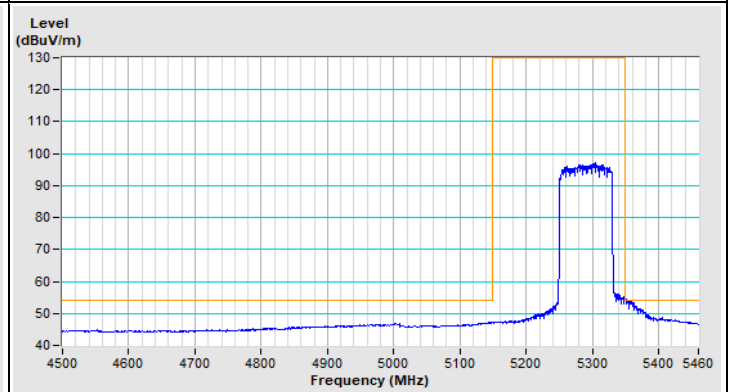
Horizontal (Peak)



Horizontal (Average)



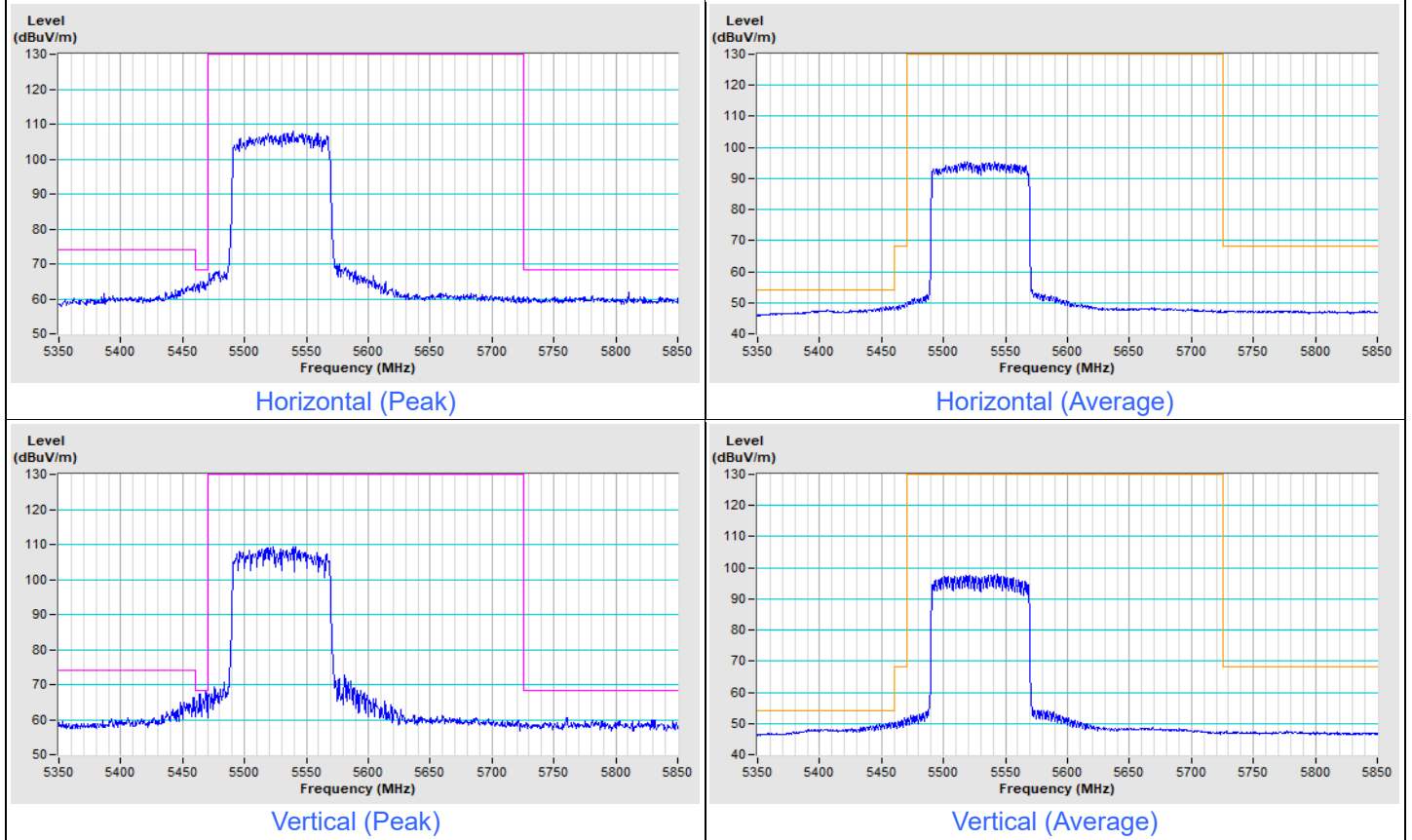
Vertical (Peak)



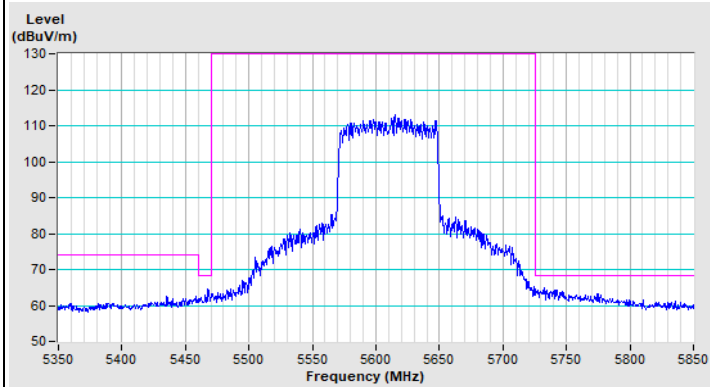
Vertical (Average)

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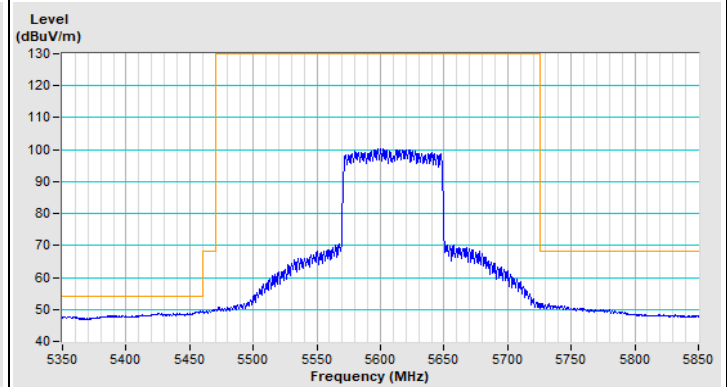
802.11ax (HE80) Channel 106



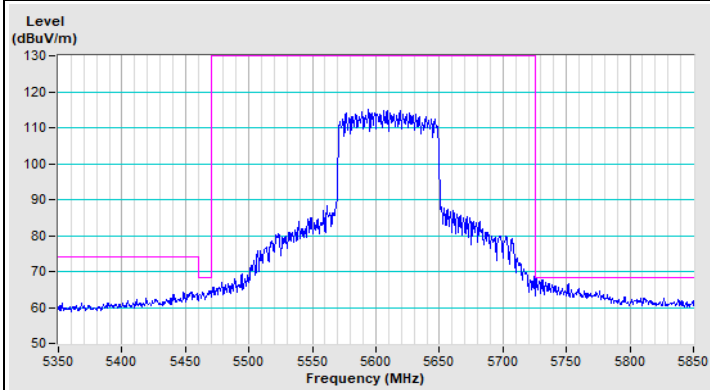
802.11ax (HE80) Channel 122



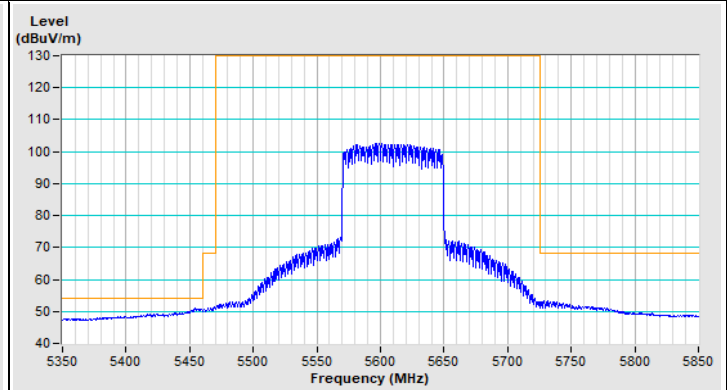
Horizontal (Peak)



Horizontal (Average)



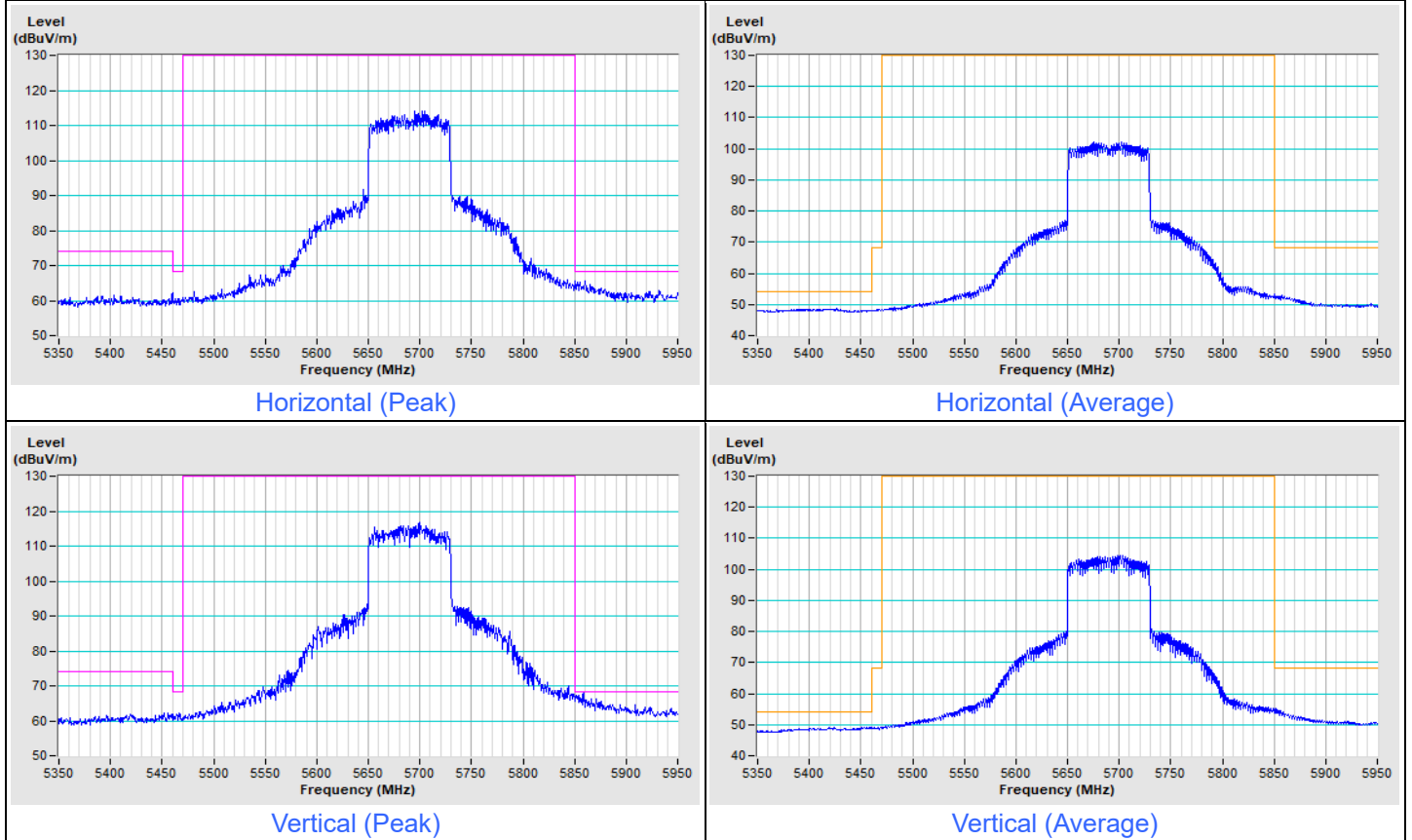
Vertical (Peak)



Vertical (Average)

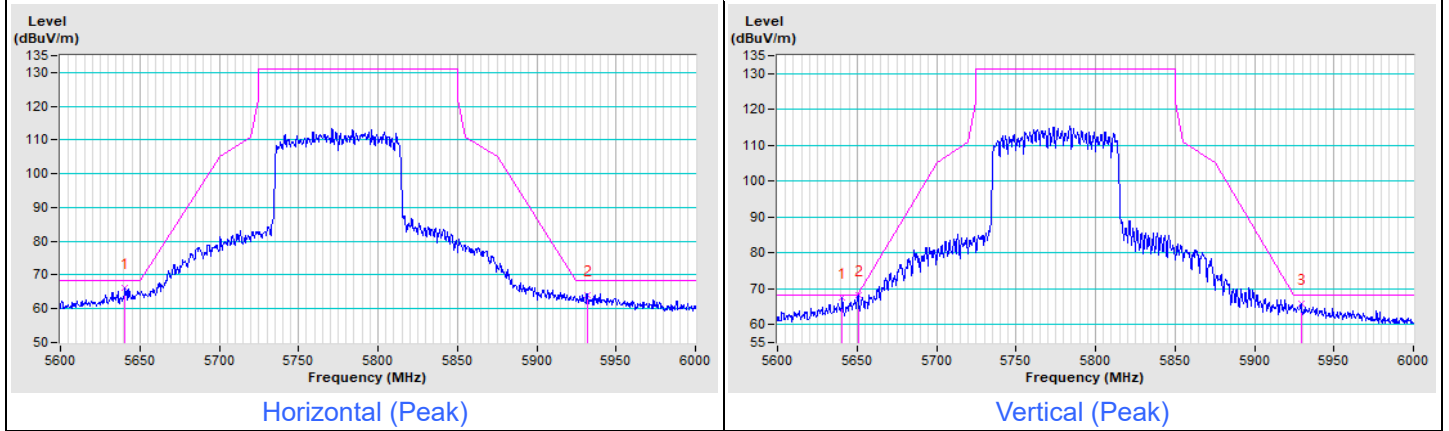
Frequency Range	5.35 GHz ~ 5.95 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11ax (HE80) Channel 138



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



8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

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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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