

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBAYG-WTW-P25040286-1

FCC ID: A94443537

Product: Wireless subwoofer

Brand: BOSE

Model No.: 443537

Received Date: 2025/4/15

Test Date: 2025/5/8 ~ 2025/6/14

Issued Date: 2025/9/23

Applicant: Bose Corporation

Address: 100 The Mountain Road Framingham Massachusetts 01701-9168 United States

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

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FCC Registration / 198487 / TW2021

Designation Number:

Approved by: _____

Jeremy Lin

Jeremy Lin / Project Engineer

, Date: _____

2025/9/23

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Prepared by : Annie Chang / Senior Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBAYG-WTW-P25040286-1	Original release.	2025/9/23

1 Certificate

Product: Wireless subwoofer

Brand: BOSE

Test Model: 443537

Sample Status: Engineering sample

Applicant: Bose Corporation

Test Date: 2025/5/8 ~ 2025/6/14

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

Measurement ANSI C63.10-2020

procedure: KDB 789033 D02 General UNII Test Procedure New Rules 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)(3)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(1) 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 -14.01 dB at 0.15770 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -7.7 dB at 31.50 MHz
15.407(b) (1/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.5 dB at 5150.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

Notes:

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

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
RF Output Power	-	1.1 dB
Power Spectral Density	-	1.3 dB
6 dB Bandwidth	-	960 Hz
Occupied Bandwidth	-	960 Hz
AC Power Conducted Emissions	9 kHz ~ 30 MHz	2.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	2.55 dB
	30 MHz ~ 1 GHz	5.77 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 6 GHz	4.71 dB
	6 GHz ~ 18 GHz	5.3 dB
	18 GHz ~ 40 GHz	4.98 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	Wireless subwoofer
Brand	BOSE
Test Model	443537
Status of EUT	Engineering sample
Power Supply Rating	100-240Vac, 50/60Hz, 180W
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 600.4 Mbps
Operating Frequency	5.18 GHz ~ 5.24 GHz, 5.745 GHz ~ 5.825 GHz
Number of Channel	802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):9 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):4 802.11ac (VHT80), 802.11ax (HE80) 2
Output Power	5.18 GHz ~ 5.24 GHz : 63.973 mW (18.06 dBm) 5.745 GHz ~ 5.825 GHz : 73.451 mW (18.66 dBm)
EUT Category	Client device

Note:

1. The EUT uses following accessories.

Item	Specification
AC power cable	Non-shielded without core, 1.5m

2. There are WLAN (2.4 GHz & 5 GHz & 5.9 GHz & 6 GHz) technology used for the EUT.
3. 2.4 GHz & 5 GHz & 5.9 GHz & 6 GHz technologies cannot transmit at same time.
4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Frequency range (GHz)	Gain (dBi)	Antenna Type	Connector Type
5.15~5.85	2.99	Monopole	ipex(MHF)

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

2. The EUT incorporates a SISO function:

5 GHz Band		
Modulation Mode	TX & RX configuration	
802.11a	1Tx Diversity	1Rx diversity
802.11n (HT20)	1Tx Diversity	1Rx diversity
802.11n (HT40)	1Tx Diversity	1Rx diversity
802.11ac (VHT20)	1Tx Diversity	1Rx diversity
802.11ac (VHT40)	1Tx Diversity	1Rx diversity
802.11ac (VHT80)	1Tx Diversity	1Rx diversity
802.11ax (HE20)	1Tx Diversity	1Rx diversity
802.11ax (HE40)	1Tx Diversity	1Rx diversity
802.11ax (HE80)	1Tx Diversity	1Rx diversity

Note:

1. 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.
2. The EUT device modulation technique OFDMA does not support partial RUs (resource units) and channel puncturing/bandwidth reduction mechanisms.

3.3 Channel List

FOR 5180 ~ 5240 MHz

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

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

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

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

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

Channel	Frequency
42	5210 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

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

Test Item	EUT Configure Mode	Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	A,B	802.11a	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
		802.11ac (VHT20)	36, 40, 48, 149, 157, 165	BPSK	MCS0
		802.11ac (VHT40)	38, 46, 151, 159	BPSK	MCS0
		802.11ac (VHT80)	42, 155	BPSK	MCS0
		802.11ax (HE20)	36, 40, 48, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	38, 46, 151, 159	BPSK	MCS0
		802.11ax (HE80)	42, 155	BPSK	MCS0
Power Spectral Density	A,B	802.11a	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	36, 40, 48, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	38, 46, 151, 159	BPSK	MCS0
		802.11ax (HE80)	42, 155	BPSK	MCS0
6 dB Bandwidth	A,B	802.11a	149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	151, 159	BPSK	MCS0
		802.11ax (HE80)	155	BPSK	MCS0
Occupied Bandwidth	A,B	802.11a	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	36, 40, 48, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	38, 46, 151, 159	BPSK	MCS0
		802.11ax (HE80)	42, 155	BPSK	MCS0
AC Power Conducted Emissions	A,B	802.11ax (HE40)	151	BPSK	MCS0
Unwanted Emissions below 1 GHz	A,B	802.11ax (HE40)	151	BPSK	MCS0
Unwanted Emissions above 1 GHz	A,B	802.11a	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
		802.11ax (HE20)	36, 40, 48, 149, 157, 165	BPSK	MCS0
		802.11ax (HE40)	38, 46, 151, 159	BPSK	MCS0
		802.11ax (HE80)	42, 155	BPSK	MCS0
EUT Configure Mode:	A	Test Conditions Chain0 for J1701			
	B	Test Conditions Chain1 for J1702			

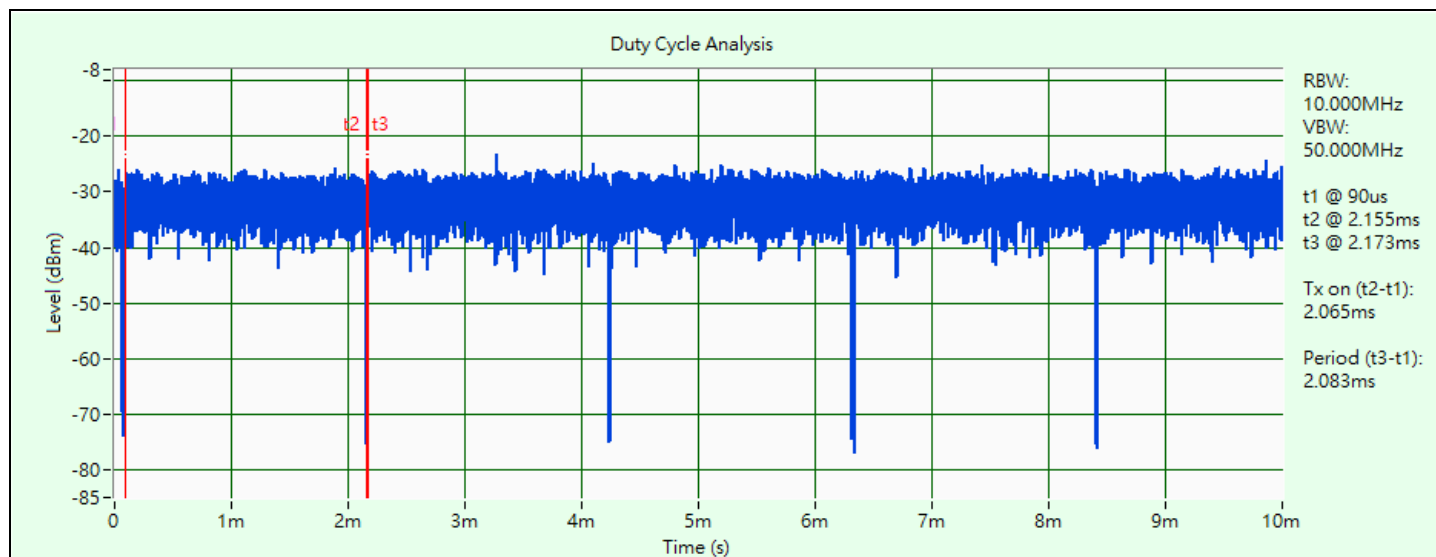
3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = 2.065 ms / 2.083 ms x 100% = 99.1%

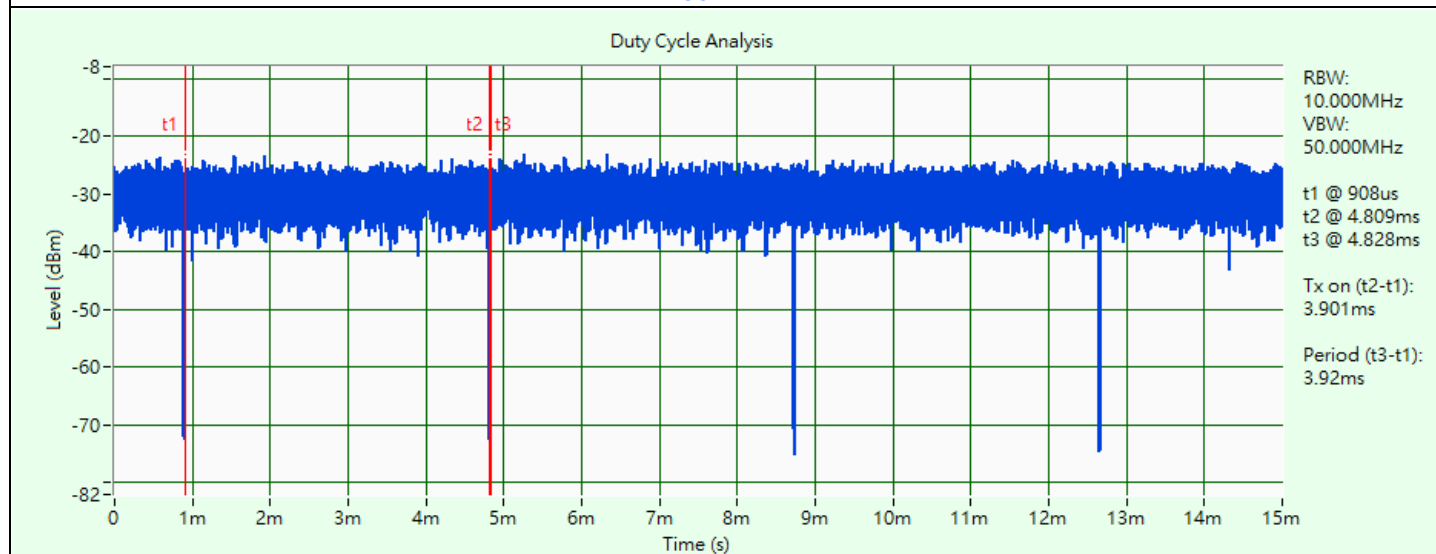
802.11ax (HE20): Duty cycle = 3.901 ms / 3.92 ms x 100% = 99.5%

802.11ax (HE40): Duty cycle = 3.795 ms / 3.814 ms x 100% = 99.5%

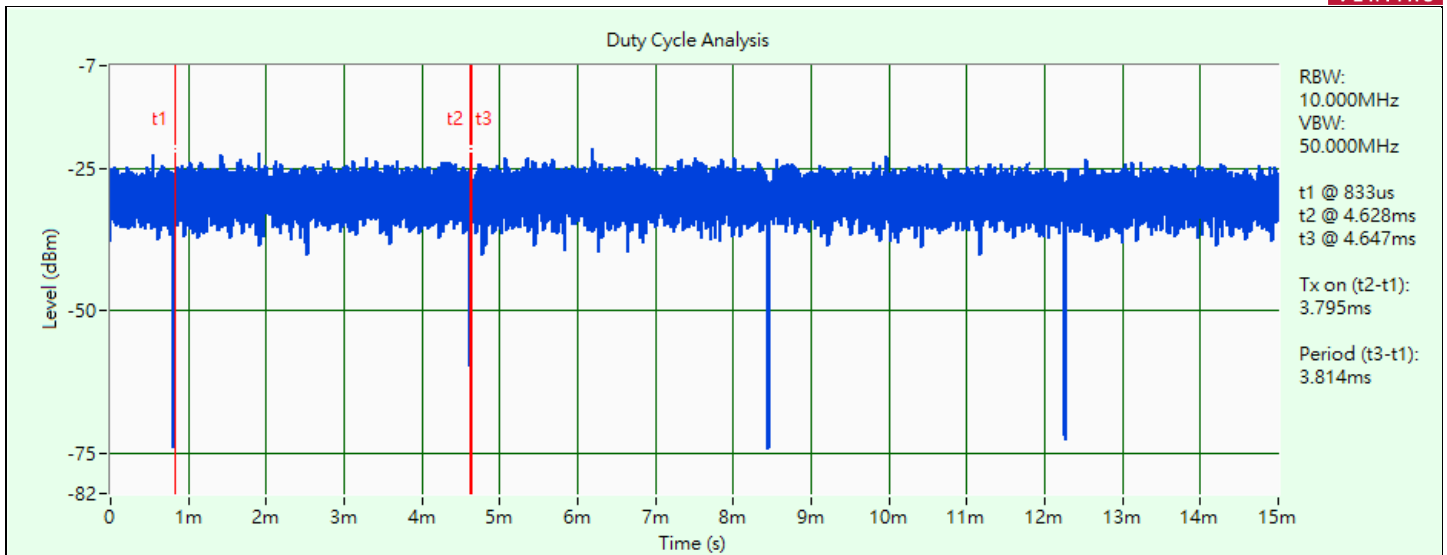
802.11ax (HE80): Duty cycle = 1.842 ms / 1.843 ms x 100% = 99.9%



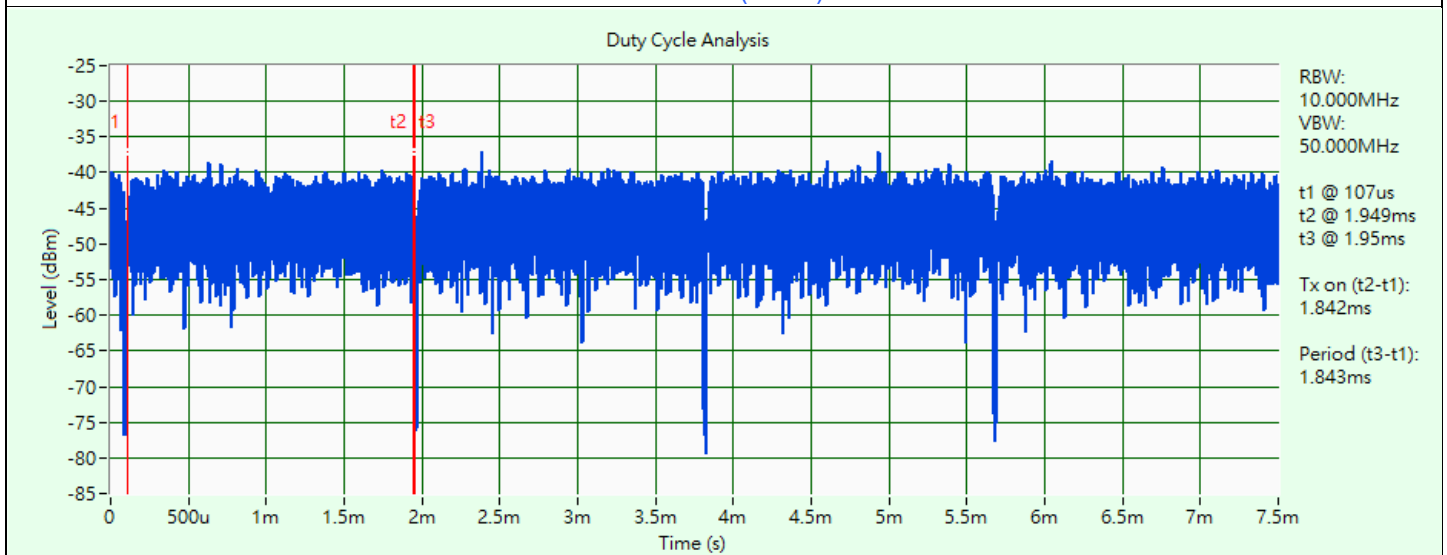
802.11a



802.11ax (HE20)



802.11ax (HE40)

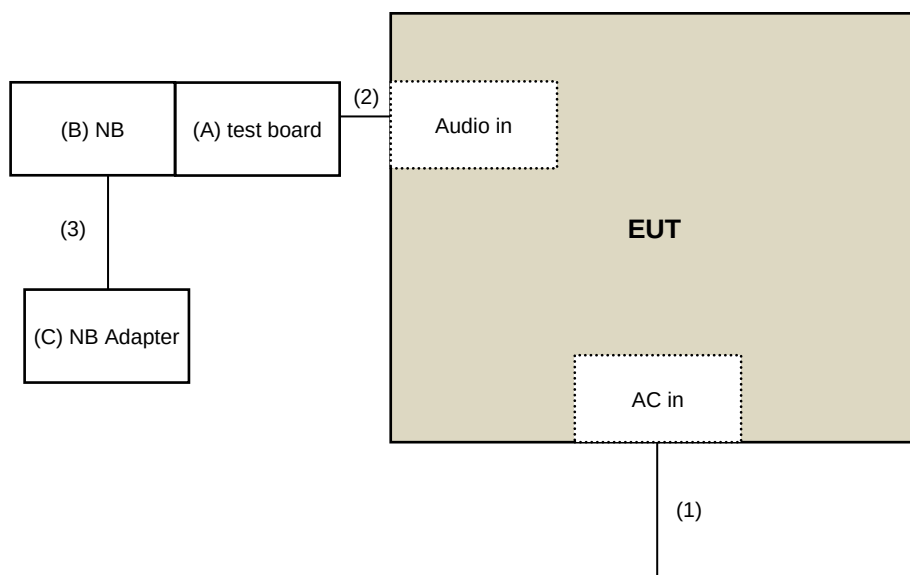


802.11ax (HE80)

3.6 Test Program Used and Operation Descriptions

Controlling software (Tera Term V4.8) 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	test board	N/A	FT232RL USB to TTL UART	N/A	N/A	Supplied by applicant
B	NB	Lenovo	IdeaPad 5 15ITL05	N/A	N/A	Provided by Lab
C	NB Adapter	Lenovo	ADLX65CLGC2A	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	AC cable	1	1.5	N	0	Supplied by applicant
2	Audio cable	1	0.5	N	0	Provided by Lab
3	DC cable	1	1.9	N	0	Provided by Lab

4 Test Instruments

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

4.1 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Solvang Technology	STI02-3310-10	STI02-3310-10_013	2025/5/23	2026/5/22
Pulse Power Sensor Anritsu	MA2411B	1339443	2025/6/3	2026/6/2
RF Power Meter Anritsu	ML2495A	1529002	2025/6/3	2026/6/2
USB Wideband Power Sensor Keysight	U2021XA	MY55050005/MY55190004/ MY55190007/MY55210005	2024/7/29	2025/7/28

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2025/6/4

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Solvang Technology	STI02-3310-10	STI02-3310-10_013	2025/5/23	2026/5/22
PXA Signal Analyzer Keysight	N9030A	MY54490260	2024/7/17	2025/7/16
Signal Analyzer R&S	FSV40	101042	2024/9/12	2025/9/11
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in LK - Oven
2. Tested Date: 2025/6/4

4.3 6 dB Bandwidth

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2025/5/23	2026/5/22
PXA Signal Analyzer Keysight	N9030A	MY54490260	2024/7/17	2025/7/16
Signal Analyzer R&S	FSV40	101042	2024/9/12	2025/9/11
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A

Notes:

1. The test was performed in LK - Oven

Tested Date: 2025/6/4

4.4 Occupied Bandwidth

Refer to section 4.2 to get the tested date and information of the instruments.

4.5 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance LYNICS	0900510	E1-011284	2024/9/16	2025/9/15
		E1-011285	2024/9/25	2025/9/24
Coupling / Decoupling Network Schwarzbeck	CDNE-M2	00097	2025/5/28	2026/5/27
	CDNE-M3	00091	2025/3/20	2026/3/19
Diode Pulse Limiter Schwarzbeck	VTSD 9561 F-N	01422	2025/5/2	2026/5/1
EMI Test Receiver R&S	ESR3	102413	2025/1/22	2026/1/21
Fixed Attenuator EMEC	EM-ATT30002602NN	N/A	2025/3/21	2026/3/20
Fixed Attenuator STI	STI02-2200-10	NO.3	2024/10/19	2025/10/18
High Voltage Probe Schwarzbeck	TK9420	00982	2024/12/6	2025/12/5
Highpass filter EMCI	150HPF-ME	114005	2025/5/2	2026/5/1
		114006	2025/5/2	2026/5/1
	150HPF-MF	113009	2025/5/2	2026/5/1
LISN R&S	ENV216	101196	2025/5/19	2026/5/18
	ESH3-Z5	100220	2024/11/21	2025/11/20
LISN Schwarzbeck	NNLK 8121	8121-00759	2024/8/20	2025/8/19
		8121-808	2025/4/23	2026/4/22
	NNLK 8129	00624	2024/10/9	2025/10/8
		8129229	2024/10/14	2025/10/13
RF Coaxial Cable PEWC	5D-FB	Cable-CO3-01	2024/9/12	2025/9/11
Software BVADT	Cond_V7.4.1.0	N/A	N/A	N/A

Notes:

1. The test was performed in Linkou Conduction 3.
2. Tested Date: 2025/6/14

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	137	2024/10/9	2025/10/8
Coupling / Decoupling Network Schwarzbeck	CDNE-M2	00097	2025/5/28	2026/5/27
	CDNE-M3	00091	2025/3/20	2026/3/19
MXE EMI Receiver Agilent	N9038A	MY50010158	2024/10/11	2025/10/10
Preamplifier Agilent	8447D	2944A11064	2025/2/14	2026/2/13
Preamplifier EMCI	EMC001340	980269	2024/6/25	2025/6/24
Radiating Loop Antenna TESEQ	RLA 6120-20	80002	2024/7/30	2025/7/29
RF Coaxial Cable Pacfic	8D-FB	Cable-CH6-02	2024/6/25	2025/6/24
Signal Analyzer R&S	FSV40	101544	2024/6/20	2025/6/19
Software BVADT	Radiated_V8.7.08	N/A	N/A	N/A
Tower ADT	AT100	0306	N/A	N/A
Turn Table ADT	TT100	0306	N/A	N/A

Notes:

1. The test was performed in Linkou 966 Chamber 6 (CH 6).
2. Tested Date: 2025/6/12

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight antenna tower fixture BV	BAF-02	6	N/A	N/A
High Pass Filter Wainwright	WHK 3.1/18G-10SS	SN 8	2024/5/24 2025/5/22	2025/5/23 2026/5/21
Horn Antenna EMCO	3115	00028257	2024/11/10	2025/11/9
Horn Antenna ETS-Lindgren	3117-PA	00215857	2024/11/10	2025/11/9
Horn Antenna Schwarzbeck	BBHA 9170	212	2024/10/18	2025/10/17
		BBHA9170190	2024/11/10	2025/11/9
MXE EMI Receiver Agilent	N9038A	MY50010158	2024/10/11	2025/10/10
Notch Filter Micro-Tronics	BRC50703-01	010	2024/5/24 2025/5/22	2025/5/23 2026/5/21
	BRM17690	005	2024/5/24 2025/5/22	2025/5/23 2026/5/21
Preamplifier EMCI	EMC0126545	980076	2025/2/14	2026/2/13
	EMC184045B	980175	2024/8/25	2025/8/24
		980235	2025/2/14	2026/2/13
Preamplifier HP	8449B	3008A01201	2025/2/14	2026/2/13
RF Coaxial Cable EMCI	EMC104	190801	2024/7/5	2025/7/4
		190804	2024/7/5	2025/7/4
RF Coaxial Cable EMEC	EM102-KMKM-100	02	2024/7/5	2025/7/4
RF Coaxial Cable HUBER+SUHNER	SF-104	Cable-CH6-01	2024/7/5	2025/7/4
Signal Analyzer R&S	FSV40	101042	2024/9/12	2025/9/11
		101544	2024/6/20	2025/6/19
Software BVADT	Radiated_V7.7.1.1.1	N/A	N/A	N/A
Tower ADT	AT100	0306	N/A	N/A
Turn Table ADT	TT100	0306	N/A	N/A

Notes:

1. The test was performed in Linkou 966 Chamber 6 (CH 6).
2. Tested Date: 2025/5/8 ~ 2025/5/30

5 Limits of Test Items

5.1 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-3	1 Watt (30 dBm)

5.2 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-3	30 dBm/500 kHz

5.3 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.

5.4 Occupied Bandwidth

The results are for reference only.

5.5 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.

5.6 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).

5.7 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 5.725-5.850 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.

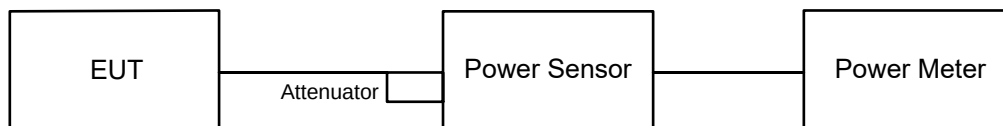
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup

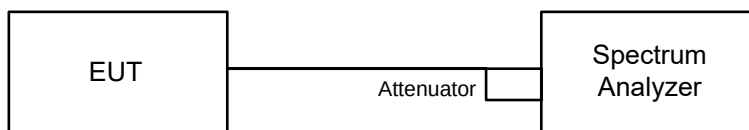


6.1.2 Test Procedure

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.

6.2 Power Spectral Density

6.2.1 Test Setup



6.2.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz,
- Detector = RMS or sample detector mode
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq$ RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto.
- Trace average at least 100 traces in power averaging mode.
- Record the max value

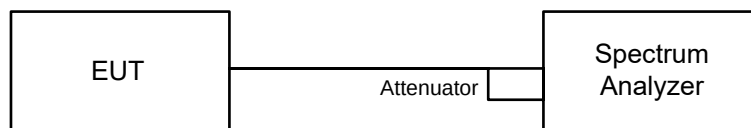
For specified measurement bandwidth 500 kHz:

Method SA-1

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

6.3 6 dB Bandwidth

6.3.1 Test Setup

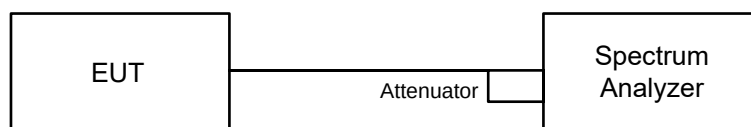


6.3.2 Test Procedure

- h. Set RBW = 100 kHz.
- i. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- j. Detector = Peak.
- k. Trace mode = max-hold.
- l. Sweep = No faster than coupled (auto) time.
- m. Allow the trace to stabilize.
- n. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.4 Occupied Bandwidth

6.4.1 Test Setup



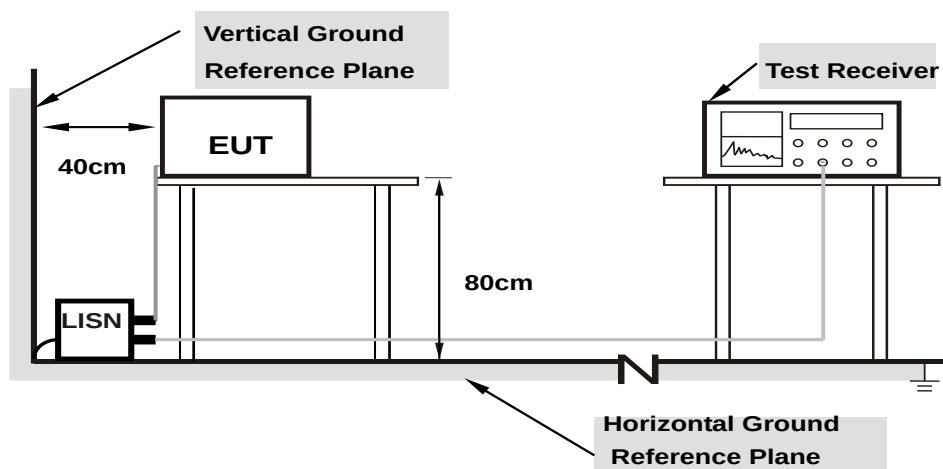
6.4.2 Test Procedure

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

6.5 AC Power Conducted Emissions

6.5.1 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).

6.5.2 Test Procedure

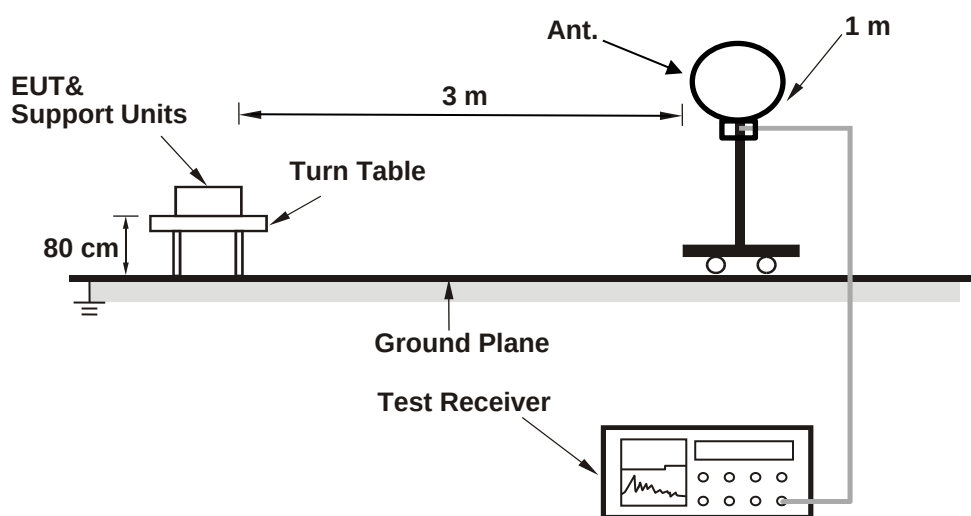
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The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

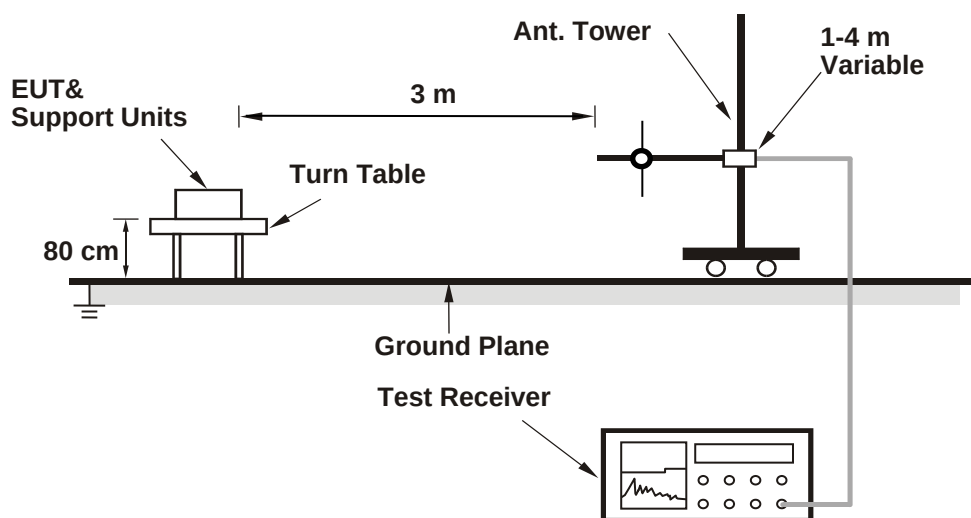
6.6 Unwanted Emissions below 1 GHz

6.6.1 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).

6.6.2 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

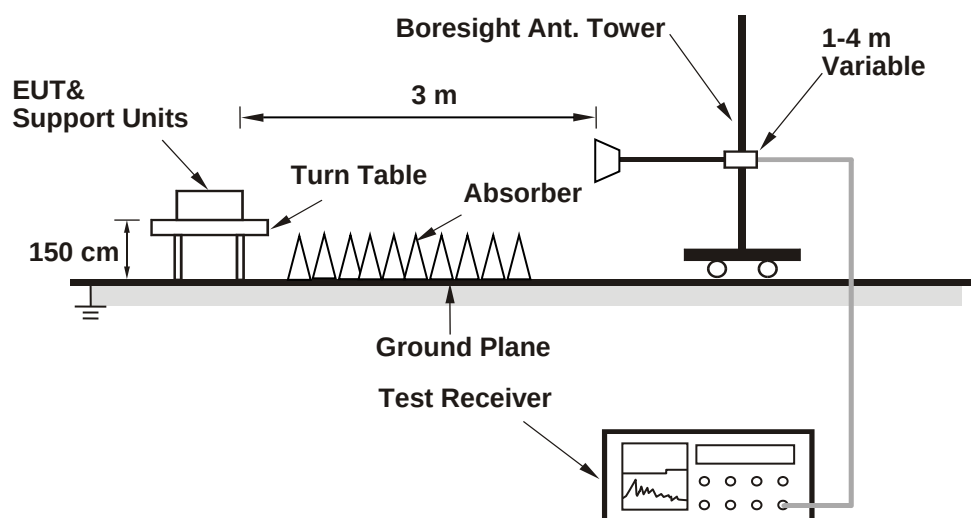
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the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

6.7 Unwanted Emissions above 1 GHz

6.7.1 Test Setup



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

6.7.2 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 RF Output Power

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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Mode A

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	41.591	16.19	24	Pass
40	5200	41.687	16.20	24	Pass
48	5240	22.182	13.46	24	Pass
149	5745	36.475	15.62	30	Pass
157	5785	41.591	16.19	30	Pass
165	5825	39.446	15.96	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	29.04	14.63	24	Pass
40	5200	48.753	16.88	24	Pass
48	5240	51.523	17.12	24	Pass
149	5745	50.234	17.01	30	Pass
157	5785	49.774	16.97	30	Pass
165	5825	49.091	16.91	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
38	5190	18.072	12.57	24	Pass
46	5230	62.373	17.95	24	Pass
151	5755	71.945	18.57	30	Pass
159	5795	69.343	18.41	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
42	5210	20.324	13.08	24	Pass
155	5775	20.701	13.16	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	29.58	14.71	24	Pass
40	5200	50.003	16.99	24	Pass
48	5240	52.602	17.21	24	Pass
149	5745	50.933	17.07	30	Pass
157	5785	50.816	17.06	30	Pass
165	5825	50.35	17.02	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
38	5190	18.45	12.66	24	Pass
46	5230	63.973	18.06	24	Pass
151	5755	73.451	18.66	30	Pass
159	5795	70.632	18.49	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
42	5210	20.606	13.14	24	Pass
155	5775	21.184	13.26	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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Mode B

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	39.264	15.94	24	Pass
40	5200	38.994	15.91	24	Pass
48	5240	24.774	13.94	24	Pass
149	5745	33.037	15.19	30	Pass
157	5785	36.983	15.68	30	Pass
165	5825	35.075	15.45	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	46.026	16.63	24	Pass
40	5200	45.186	16.55	24	Pass
48	5240	49.204	16.92	24	Pass
149	5745	46.132	16.64	30	Pass
157	5785	45.394	16.57	30	Pass
165	5825	42.954	16.33	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
38	5190	19.861	12.98	24	Pass
46	5230	61.376	17.88	24	Pass
151	5755	66.222	18.21	30	Pass
159	5795	60.117	17.79	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
42	5210	18.197	12.60	24	Pass
155	5775	22.909	13.60	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
36	5180	47.098	16.73	24	Pass
40	5200	46.238	16.65	24	Pass
48	5240	50.003	16.99	24	Pass
149	5745	47.206	16.74	30	Pass
157	5785	46.238	16.65	30	Pass
165	5825	43.652	16.40	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
38	5190	20.324	13.08	24	Pass
46	5230	62.373	17.95	24	Pass
151	5755	67.453	18.29	30	Pass
159	5795	61.66	17.90	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Power Limit (dBm)	Test Result
42	5210	18.621	12.70	24	Pass
155	5775	23.335	13.68	30	Pass

Notes:

1. For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
2. For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

7.2 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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Mode A

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	2.78	11	Pass
40	5200	2.68	11	Pass
48	5240	0.89	11	Pass

Note: For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	1.25	11	Pass
40	5200	2.41	11	Pass
48	5240	2.38	11	Pass

Note: For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
38	5190	-3.64	11	Pass
46	5230	1.23	11	Pass

Note: For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
42	5210	-6.10	11	Pass

Note: For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
149	5745	-7.74	-5.52	30	Pass
157	5785	-7.91	-5.69	30	Pass
165	5825	-7.64	-5.42	30	Pass

Note: For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
149	5745	-9.95	-7.73	30	Pass
157	5785	-10.41	-8.19	30	Pass
165	5825	-10.08	-7.86	30	Pass

Note: For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
151	5755	-11.12	-8.90	30	Pass
159	5795	-10.94	-8.72	30	Pass

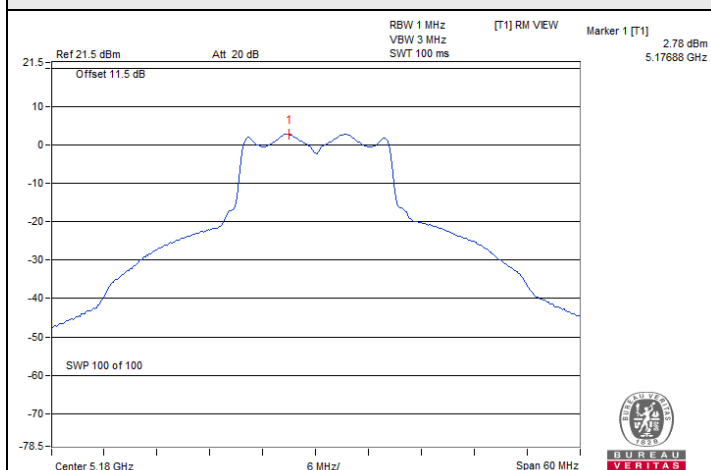
Note: For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE80)

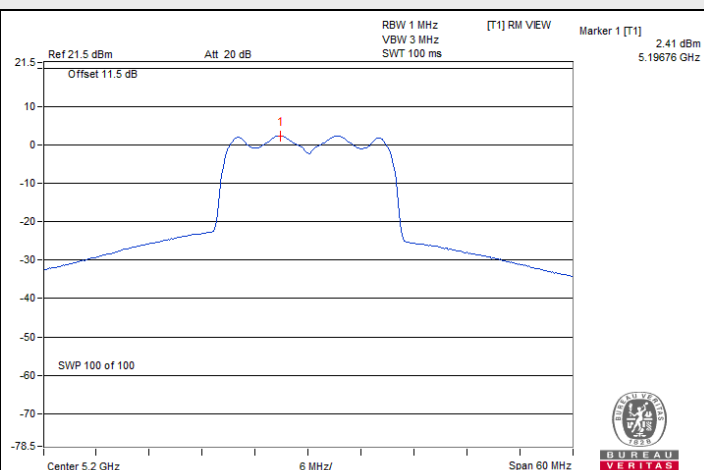
Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
155	5775	-16.59	-14.37	30	Pass

Note: For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

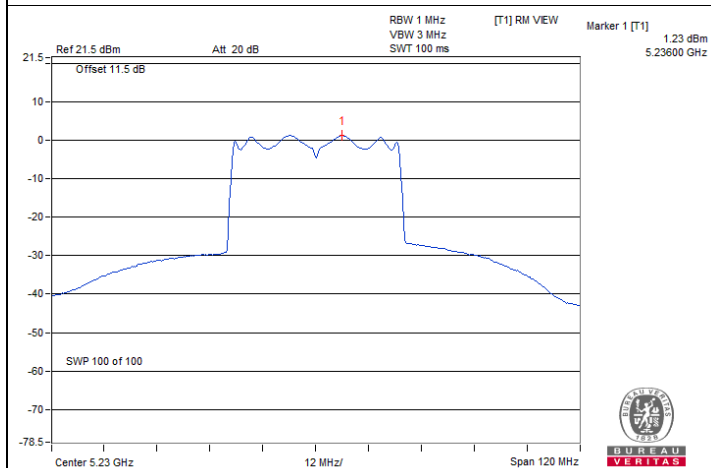
Spectrum Plot of Maximum Value



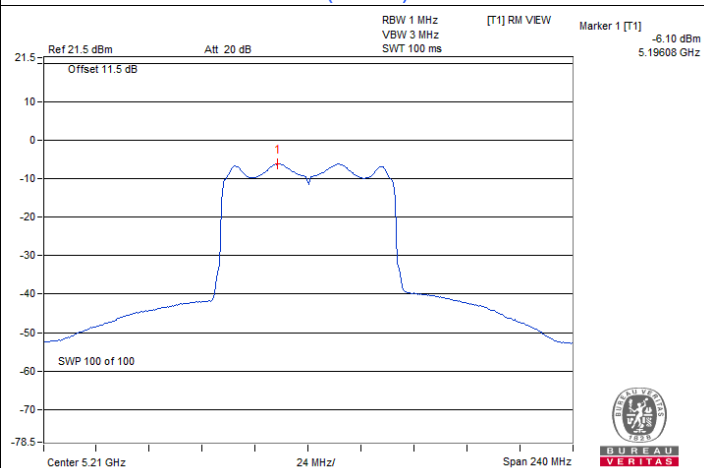
802.11a : CH 36



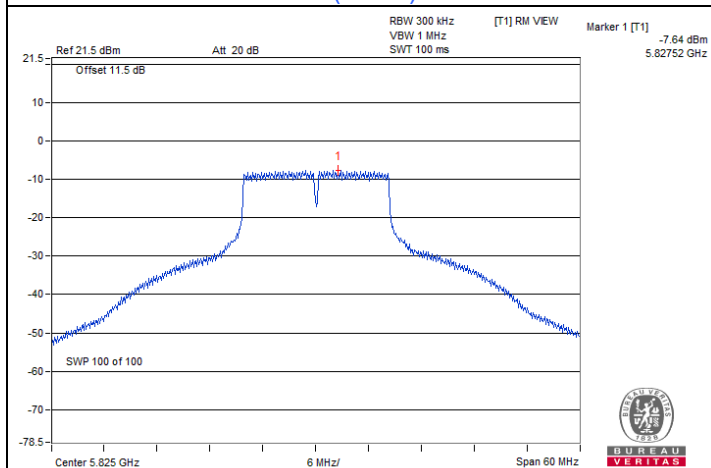
802.11ax (HE20) : CH 40



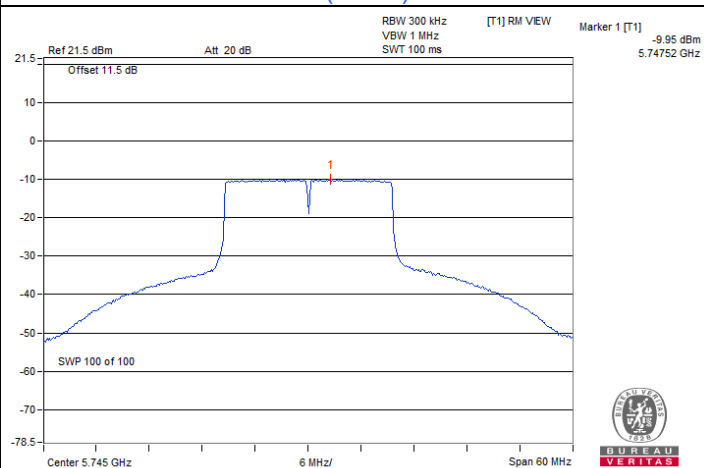
802.11ax (HE40) : CH 46



802.11ax (HE80) : CH 42

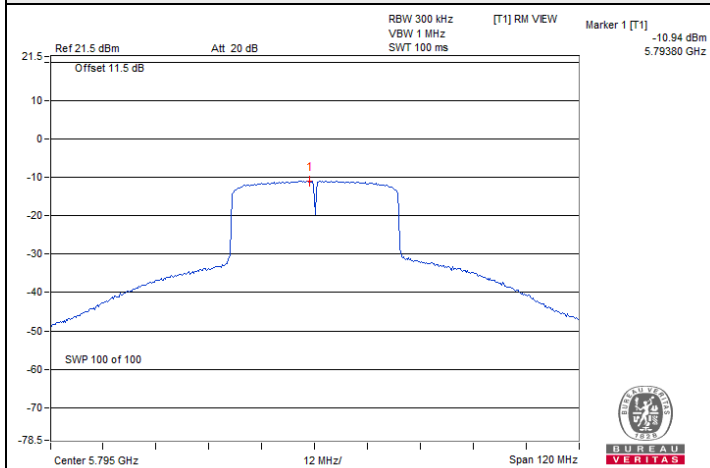


802.11a : CH 165

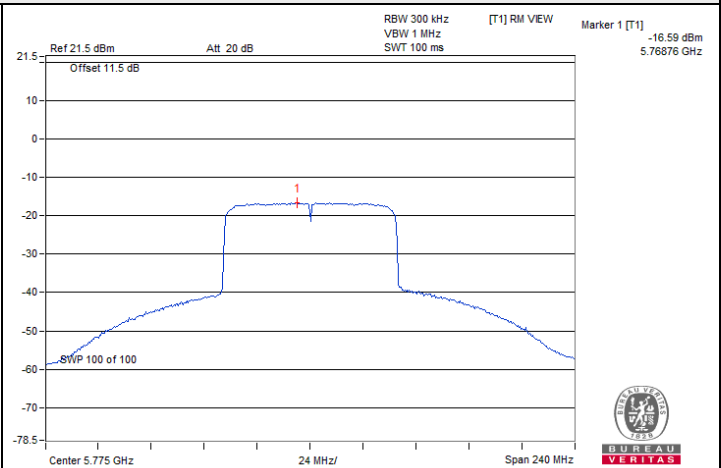


802.11ax (HE20) : CH 149

Spectrum Plot of Maximum Value



802.11ax (HE40) : CH 159



802.11ax (HE80) : CH 155

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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Mode B

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	2.51	11	Pass
40	5200	1.93	11	Pass
48	5240	0.98	11	Pass

Note: For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
36	5180	1.72	11	Pass
40	5200	1.76	11	Pass
48	5240	1.87	11	Pass

Note: For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
38	5190	-3.06	11	Pass
46	5230	0.14	11	Pass

Note: For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
42	5210	-6.58	11	Pass

Note: For U-NII-1, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
149	5745	-9.46	-7.24	30	Pass
157	5785	-9.85	-7.63	30	Pass
165	5825	-10.17	-7.95	30	Pass

Note: For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
149	5745	-9.66	-7.44	30	Pass
157	5785	-10.17	-7.95	30	Pass
165	5825	-10.43	-8.21	30	Pass

Note: For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
151	5755	-11.33	-9.11	30	Pass
159	5795	-11.43	-9.21	30	Pass

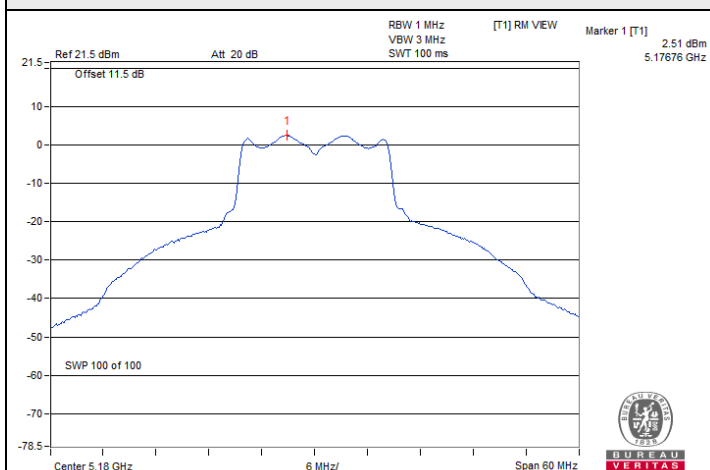
Note: For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11ax (HE80)

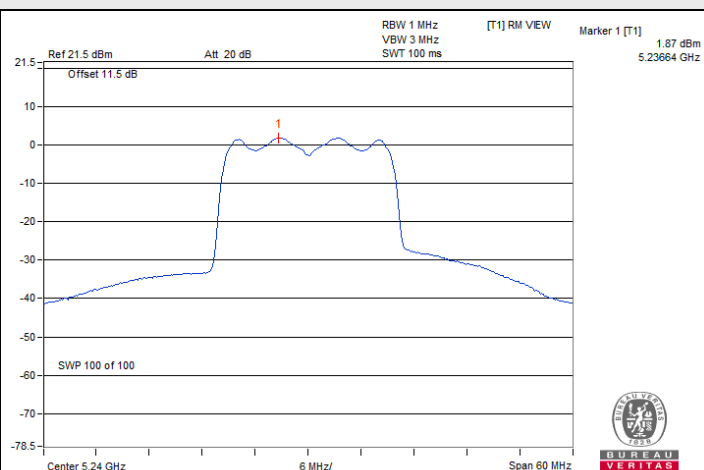
Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
155	5775	-16.04	-13.82	30	Pass

Note: For U-NII-3, the antenna gain is 2.99 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

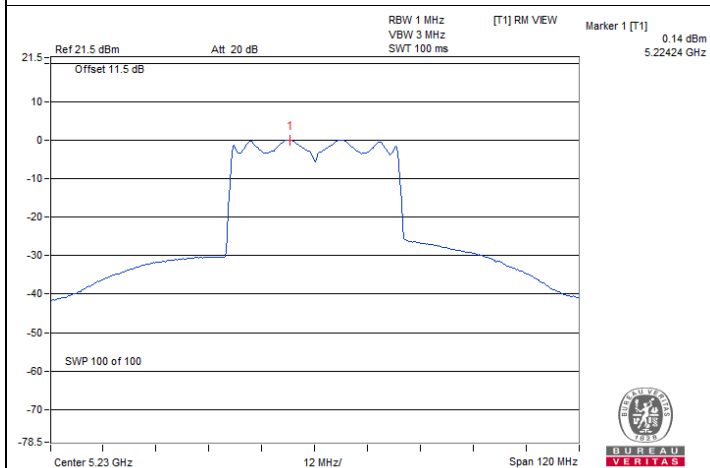
Spectrum Plot of Maximum Value



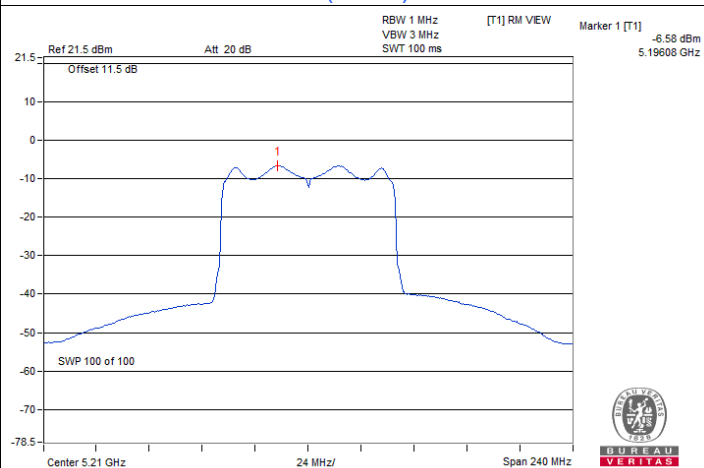
802.11a : CH 36



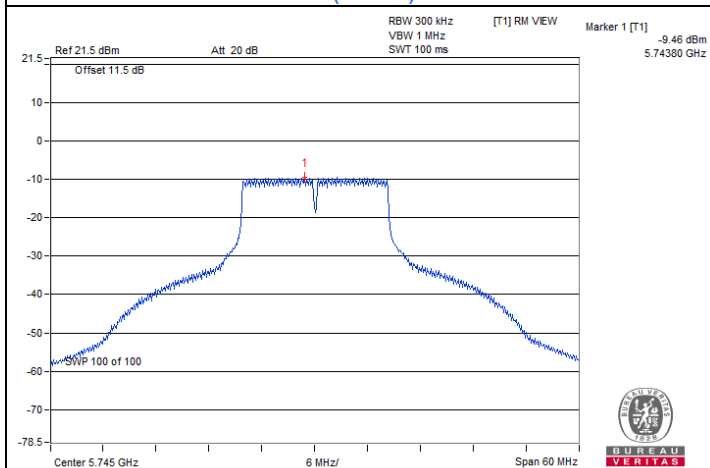
802.11ax (HE20) : CH 48



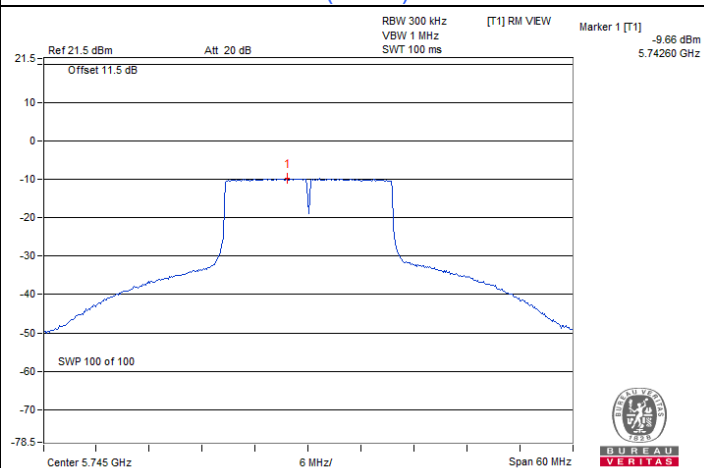
802.11ax (HE40) : CH 46



802.11ax (HE80) : CH 42

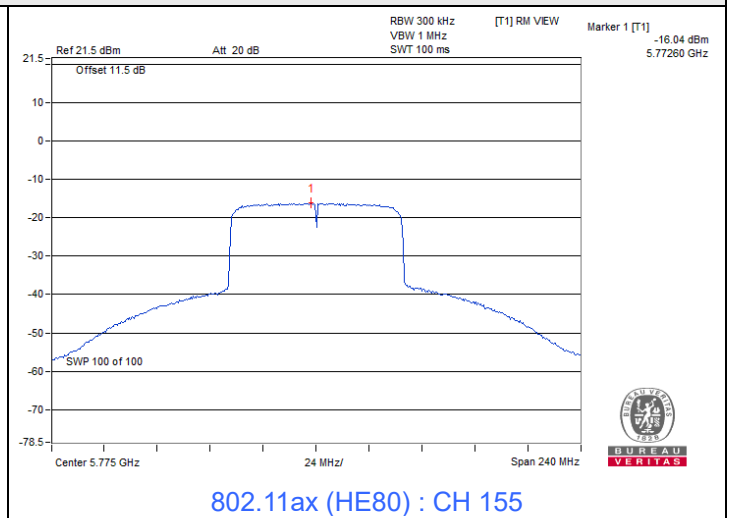
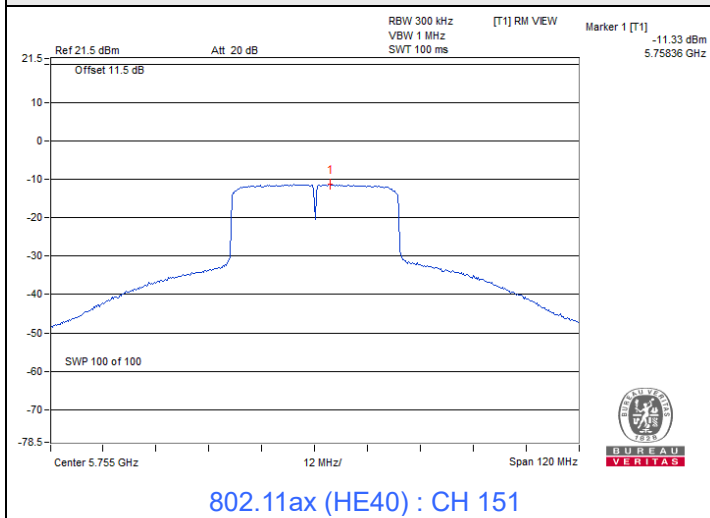


802.11a : CH 149



802.11ax (HE20) : CH 149

Spectrum Plot of Maximum Value



7.3 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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Mode A

802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
149	5745	16.45	0.5	Pass
157	5785	16.44	0.5	Pass
165	5825	16.43	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
149	5745	19.22	0.5	Pass
157	5785	19.16	0.5	Pass
165	5825	19.08	0.5	Pass

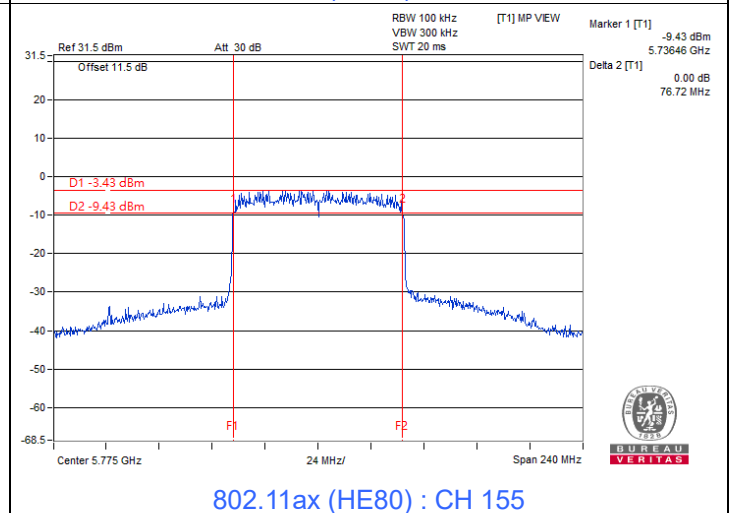
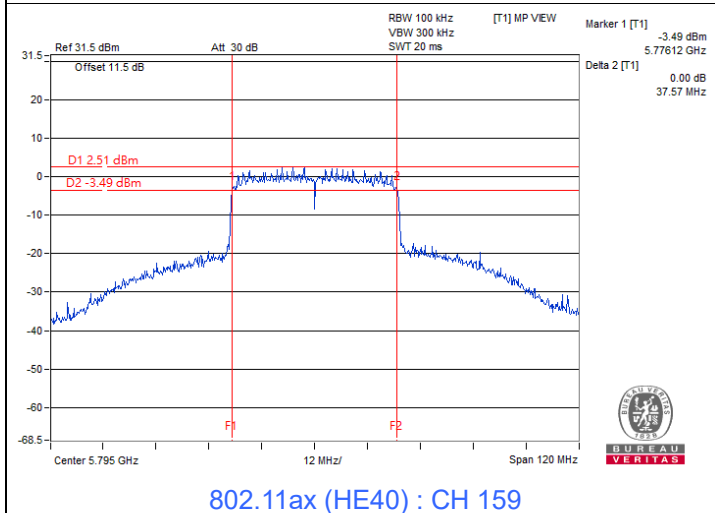
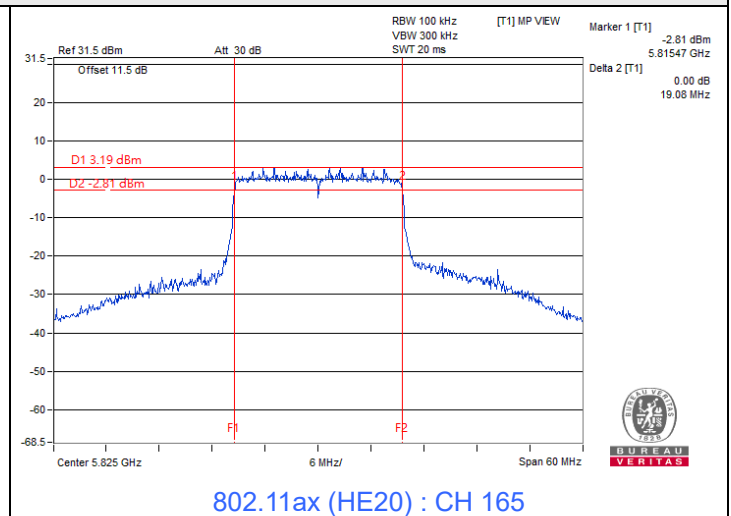
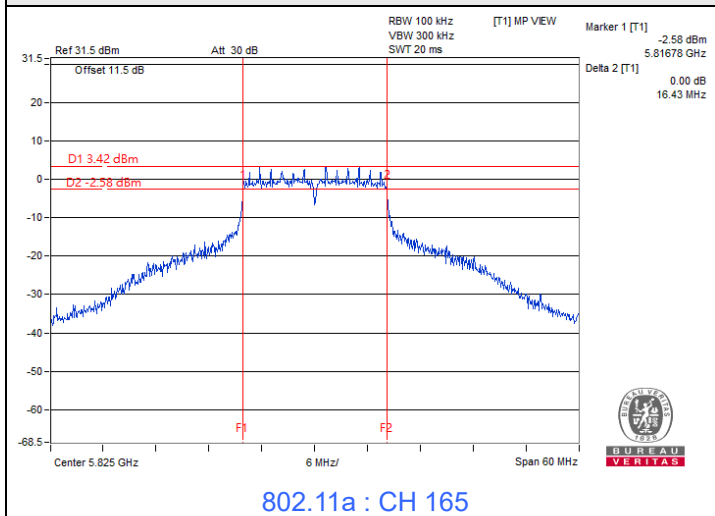
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
151	5755	37.96	0.5	Pass
159	5795	37.57	0.5	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
155	5775	76.72	0.5	Pass

Spectrum Plot of Minimum Value



Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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Mode B

802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
149	5745	16.43	0.5	Pass
157	5785	16.44	0.5	Pass
165	5825	16.43	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
149	5745	19.15	0.5	Pass
157	5785	19.14	0.5	Pass
165	5825	19.16	0.5	Pass

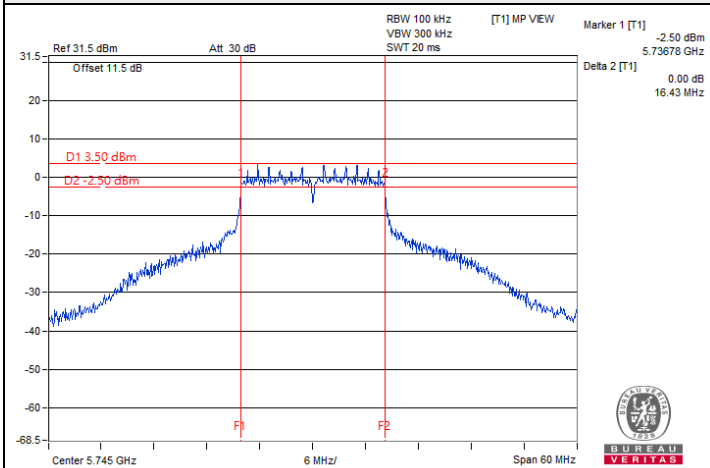
802.11ax (HE40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
151	5755	38.05	0.5	Pass
159	5795	37.65	0.5	Pass

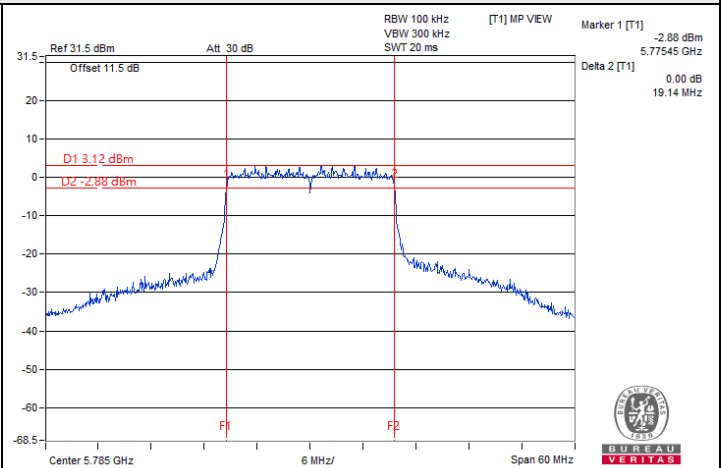
802.11ax (HE80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Test Result
155	5775	76.93	0.5	Pass

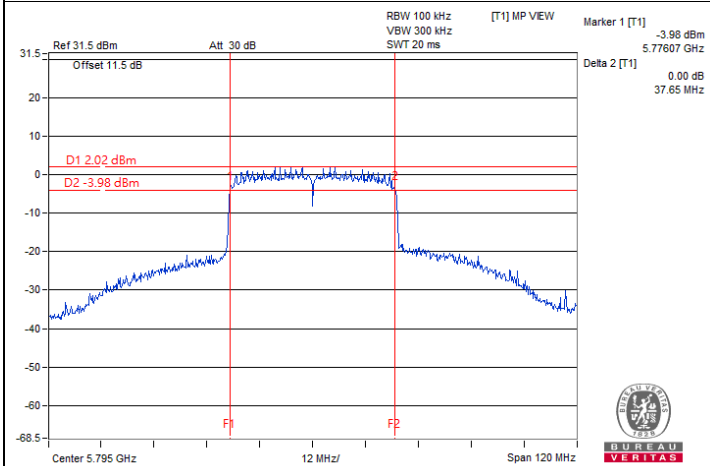
Spectrum Plot of Minimum Value



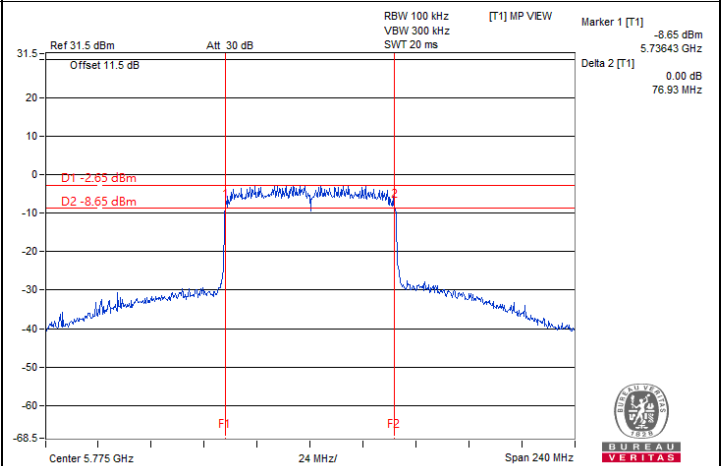
802.11a : CH 149



802.11ax (HE20) : CH 157



802.11ax (HE40) : CH 159



802.11ax (HE80) : CH 155

7.4 Occupied Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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Mode A

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	20.4
40	5200	20.88
48	5240	18.12
149	5745	22.92
157	5785	23.76
165	5825	22.56

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	19.08
40	5200	19.08
48	5240	19.2
149	5745	19.56
157	5785	19.56
165	5825	19.56

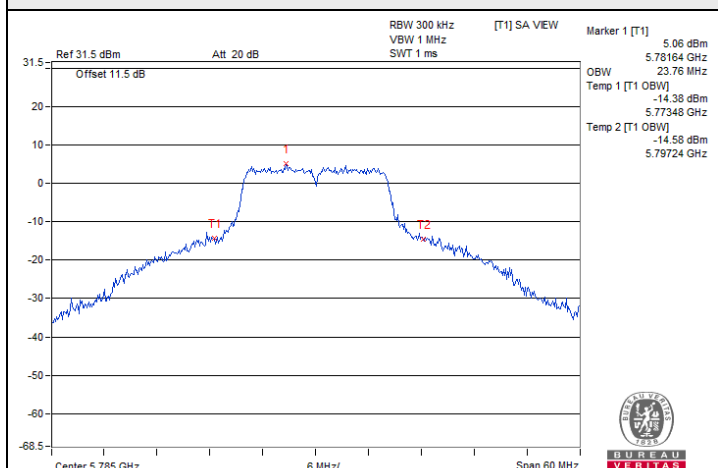
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
38	5190	37.92
46	5230	38.4
151	5755	39.84
159	5795	41.04

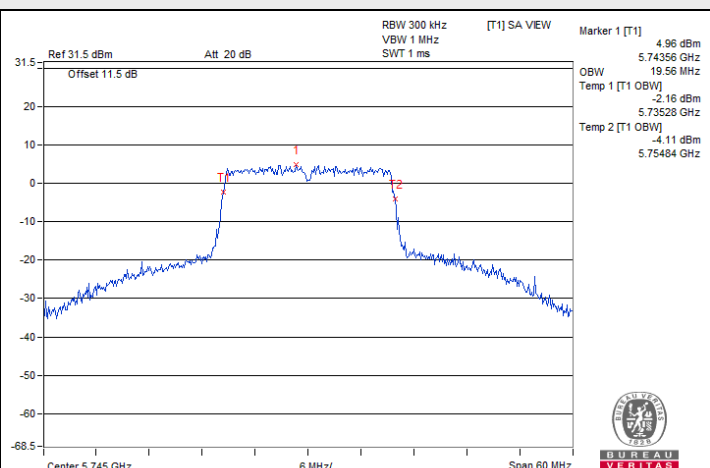
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
42	5210	77.76
155	5775	77.76

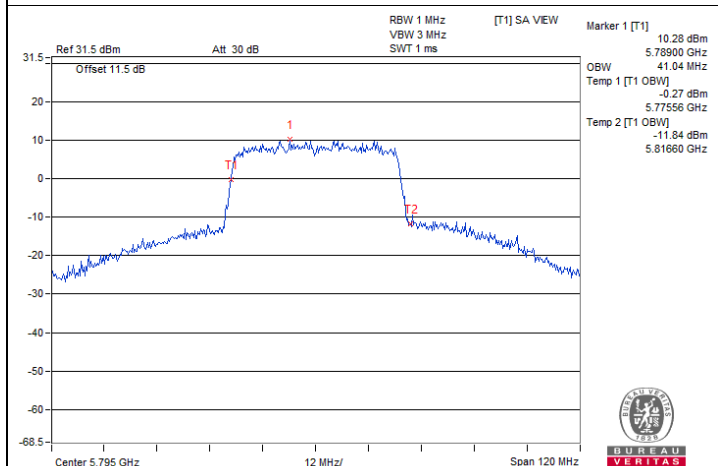
Spectrum Plot of Maximum Value



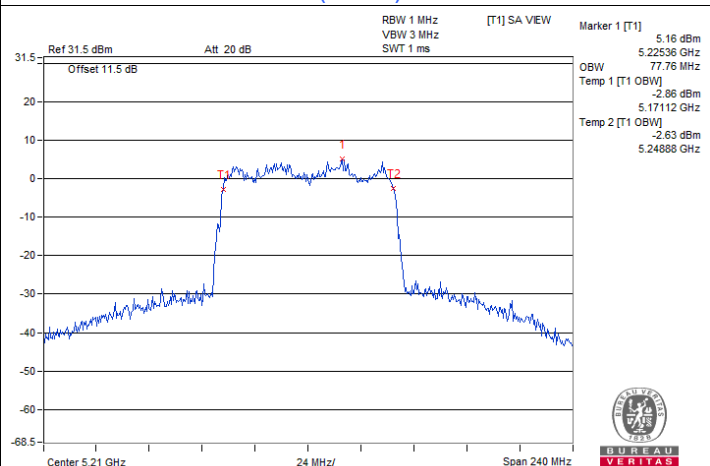
802.11a : CH 157



802.11ax (HE20) : CH 149

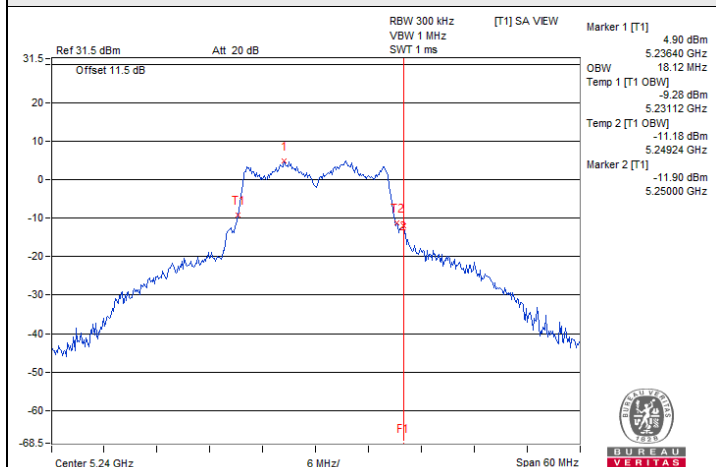


802.11ax (HE40) : CH 159

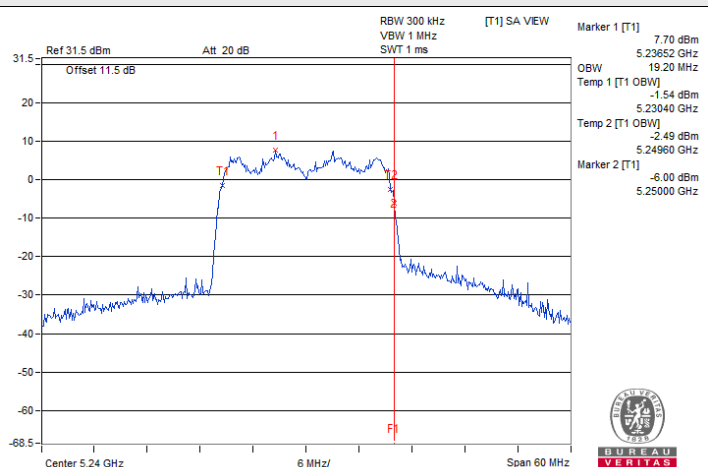


802.11ax (HE80) : CH 42

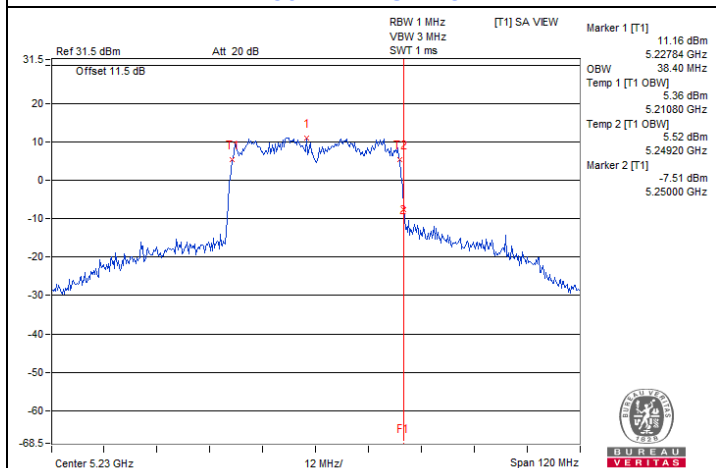
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



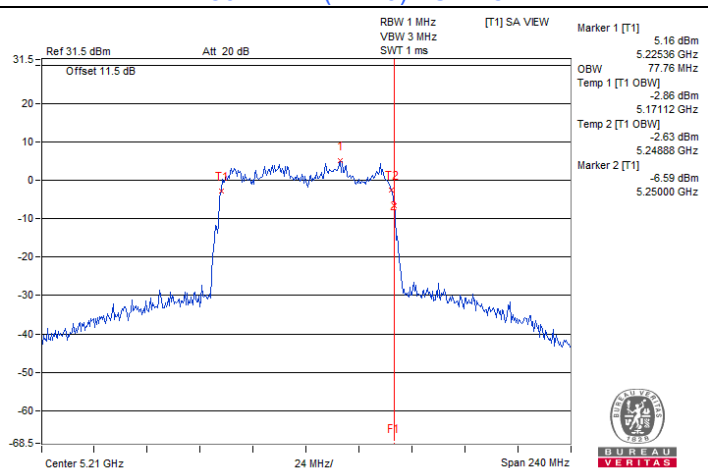
802.11a : CH 48



802.11ax (HE20) : CH 48

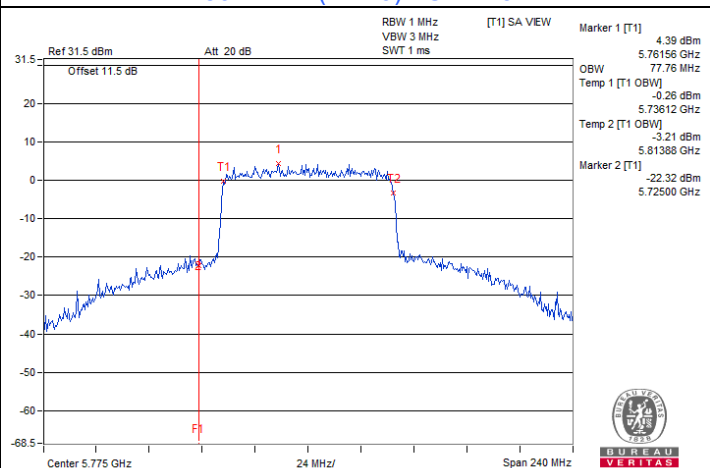
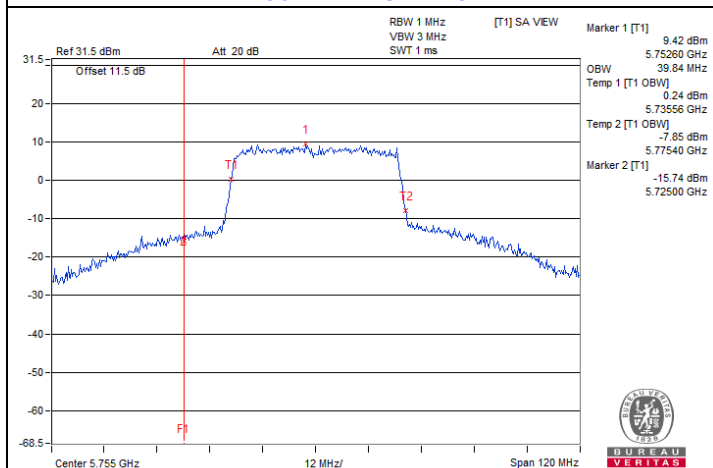
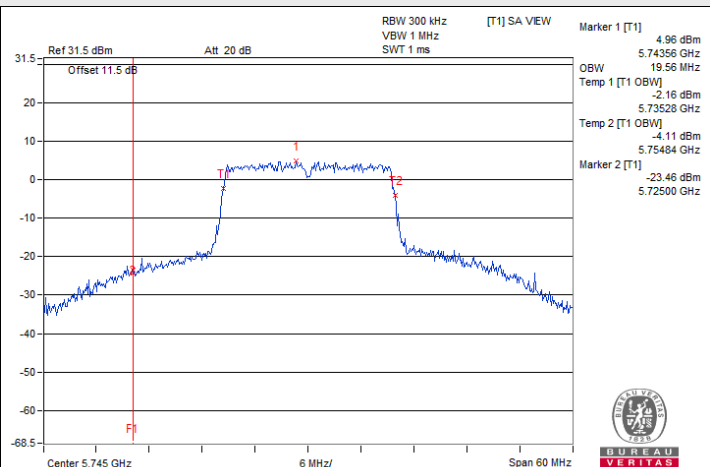
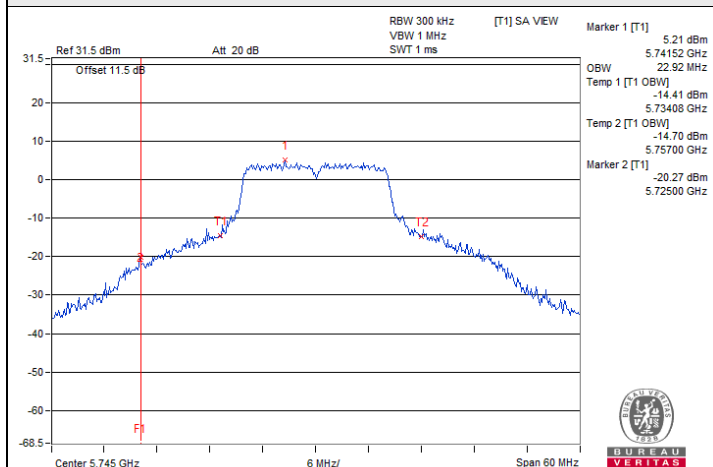


802.11ax (HE40) : CH 46



802.11ax (HE80) : CH 42

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



Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 76% RH	Tested By:	Dalen Dai
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Mode B

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	20.4
40	5200	19.8
48	5240	18.6
149	5745	19.68
157	5785	19.68
165	5825	19.56

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	19.2
40	5200	19.2
48	5240	19.32
149	5745	19.68
157	5785	19.56
165	5825	19.8

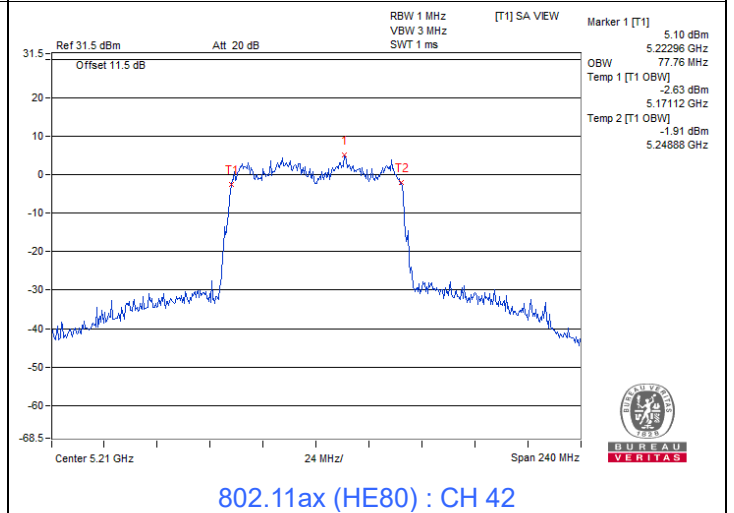
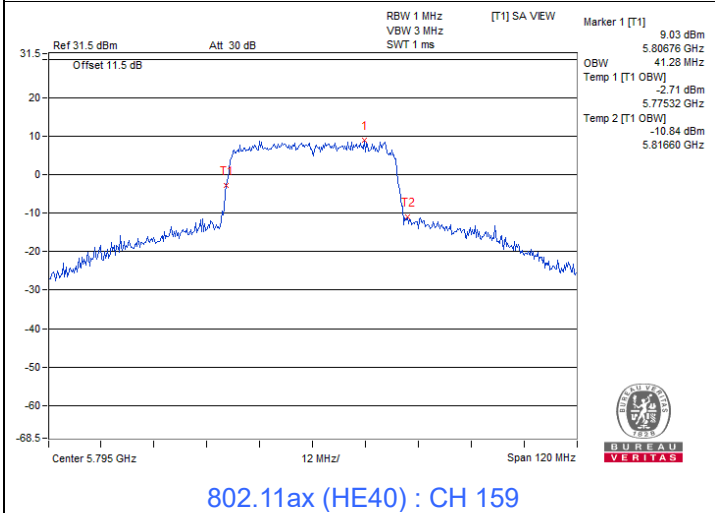
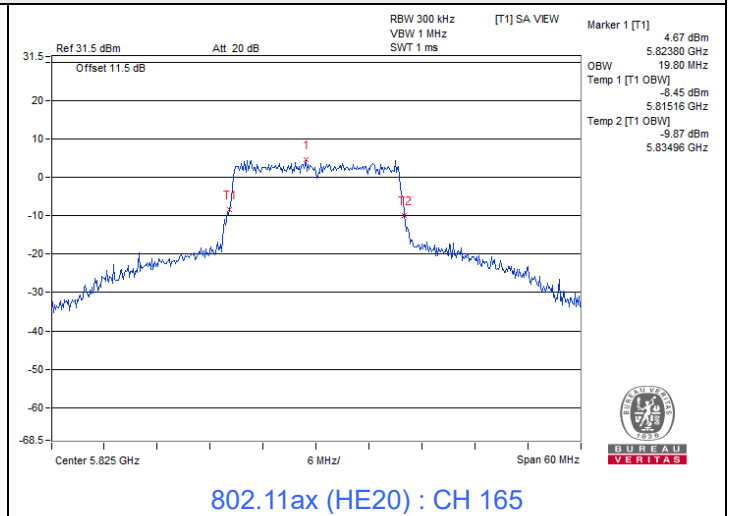
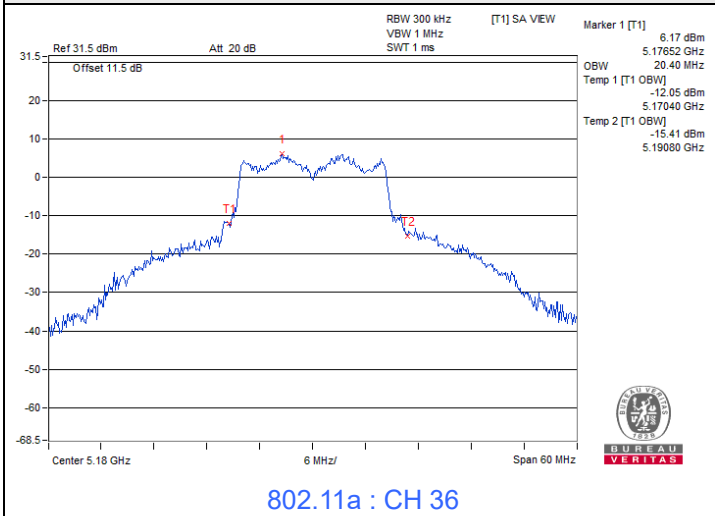
802.11ax (HE40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
38	5190	38.4
46	5230	38.4
151	5755	40.56
159	5795	41.28

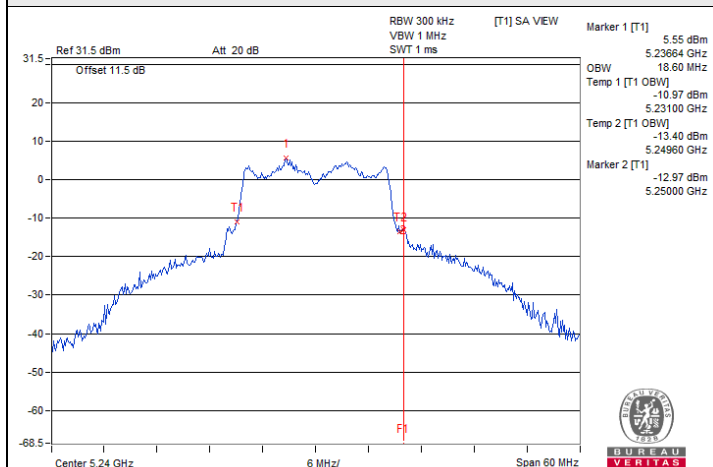
802.11ax (HE80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
42	5210	77.76
155	5775	77.76

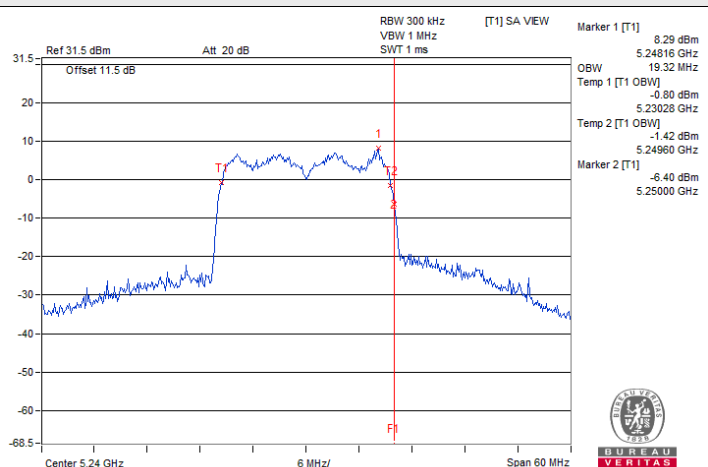
Spectrum Plot of Maximum Value



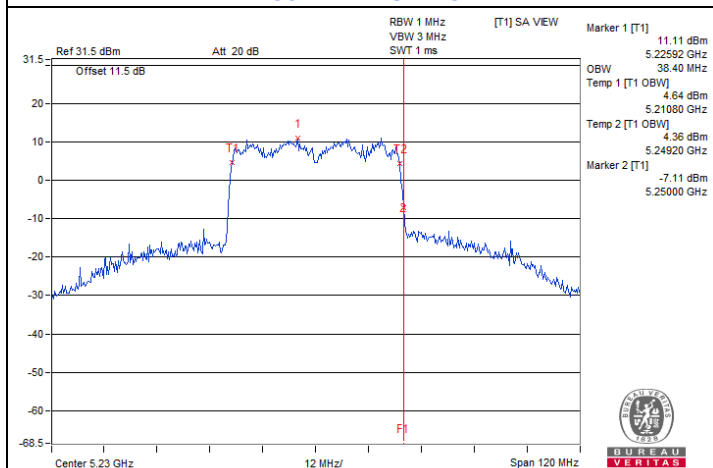
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



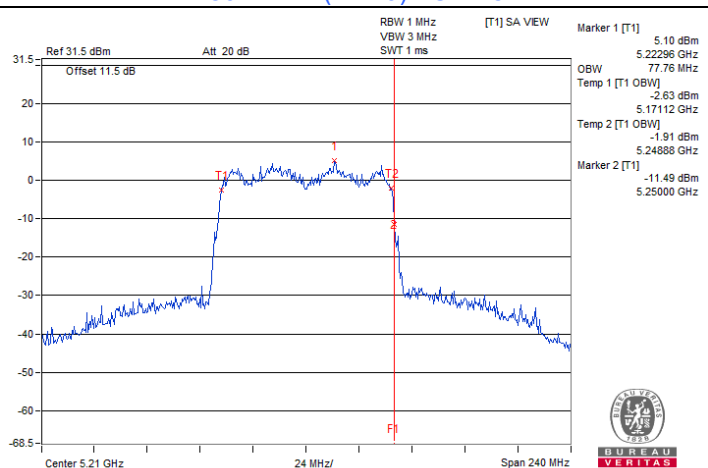
802.11a : CH 48



802.11ax (HE20) : CH 48

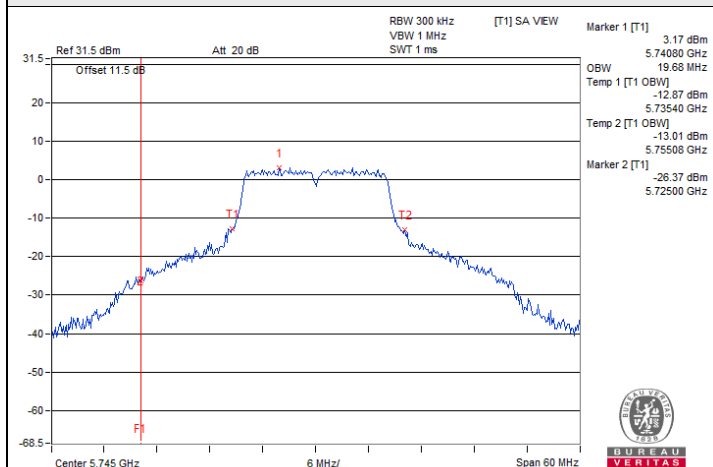


802.11ax (HE40) : CH 46

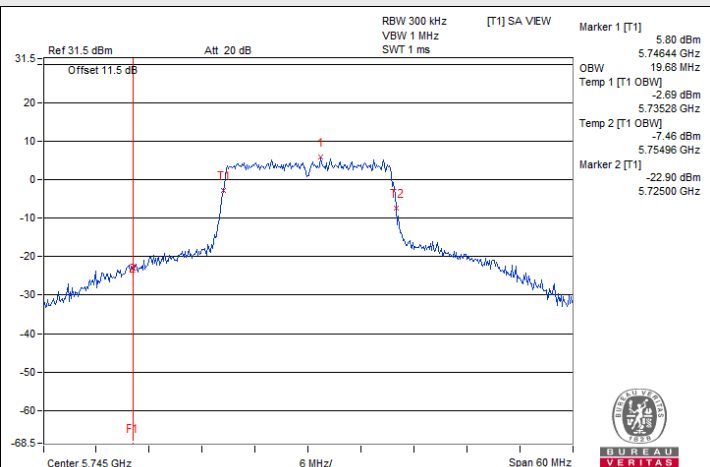


802.11ax (HE80) : CH 42

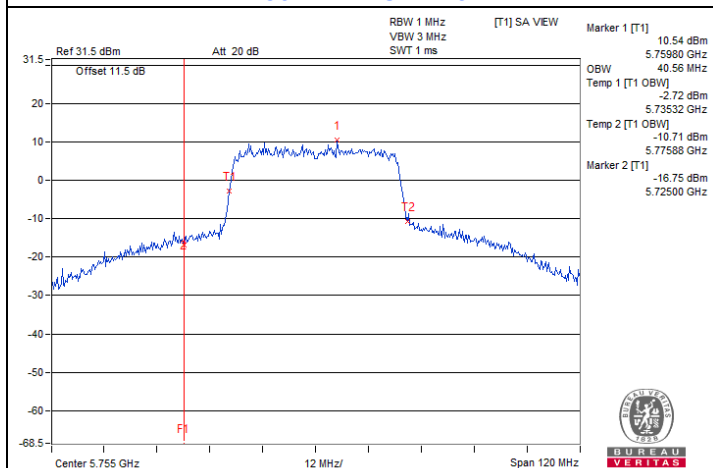
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



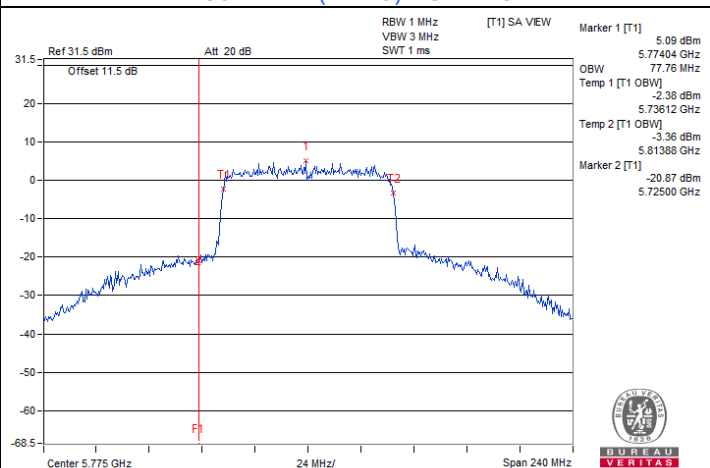
802.11a : CH 149



802.11a (HE20) : CH 149



802.11ax (HE40) : CH 151



802.11ax (HE80) : CH 155

7.5 AC Power Conducted Emissions

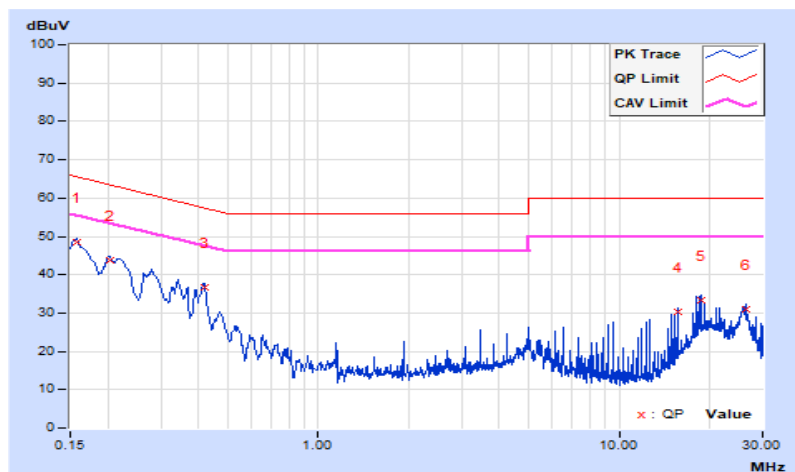
Mode A

RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Jed Wu		

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	0.15770	8.80	39.84	32.77	48.64	41.57	65.58	55.58	-16.94	-14.01
2	0.20254	8.77	35.12	26.74	43.89	35.51	63.51	53.51	-19.62	-18.00
3	0.42000	8.70	27.87	22.34	36.57	31.04	57.45	47.45	-20.88	-16.41
4	15.74400	9.00	21.41	19.91	30.41	28.91	60.00	50.00	-29.59	-21.09
5	18.81600	9.06	24.29	22.92	33.35	31.98	60.00	50.00	-26.65	-18.02
6	26.49600	9.21	21.80	17.84	31.01	27.05	60.00	50.00	-28.99	-22.95

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

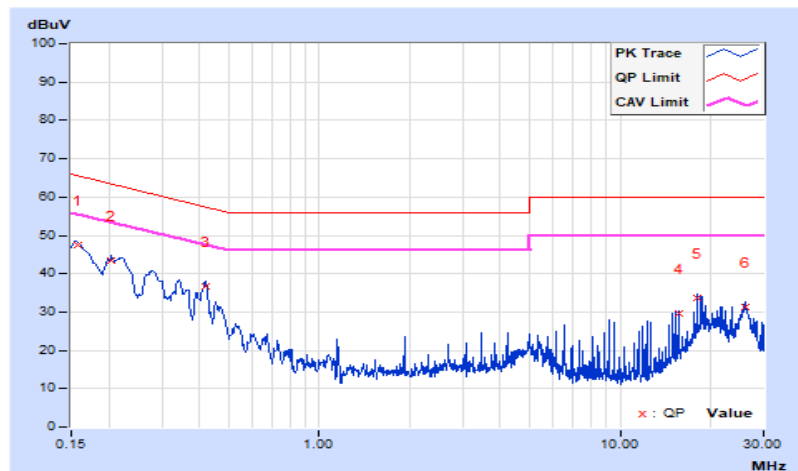


RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Jed Wu		

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	0.15800	8.79	38.66	31.61	47.45	40.40	65.57	55.57	-18.12	-15.17
2	0.20400	8.76	34.76	26.66	43.52	35.42	63.45	53.45	-19.93	-18.03
3	0.41800	8.70	28.06	23.45	36.76	32.15	57.49	47.49	-20.73	-15.34
4	15.74400	8.97	20.53	20.03	29.50	29.00	60.00	50.00	-30.50	-21.00
5	18.04800	9.02	24.77	23.80	33.79	32.82	60.00	50.00	-26.21	-17.18
6	26.14800	9.21	22.22	17.49	31.43	26.70	60.00	50.00	-28.57	-23.30

Remarks:

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



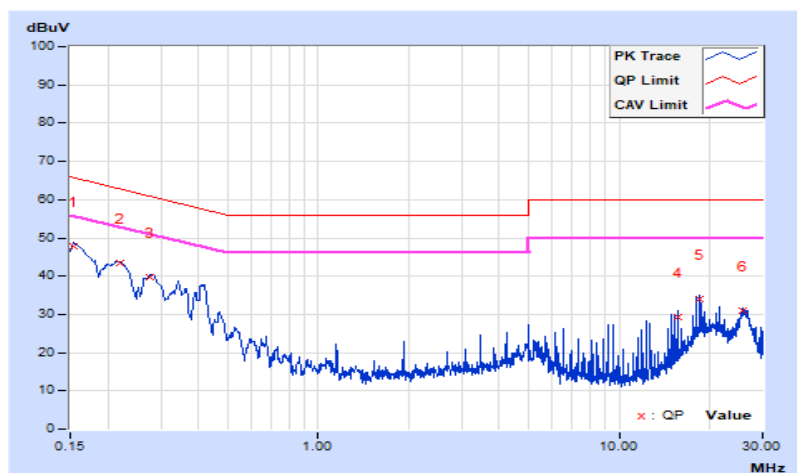
Mode B

RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Jed Wu		

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	0.15400	8.80	38.99	31.64	47.79	40.44	65.78	55.78	-17.99	-15.34
2	0.21863	8.76	34.60	26.22	43.36	34.98	62.87	52.87	-19.51	-17.89
3	0.27640	8.74	31.08	22.89	39.82	31.63	60.92	50.92	-21.10	-19.29
4	15.74400	9.00	20.46	19.66	29.46	28.66	60.00	50.00	-30.54	-21.34
5	18.43200	9.06	25.10	24.03	34.16	33.09	60.00	50.00	-25.84	-16.91
6	25.63200	9.20	21.79	16.91	30.99	26.11	60.00	50.00	-29.01	-23.89

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

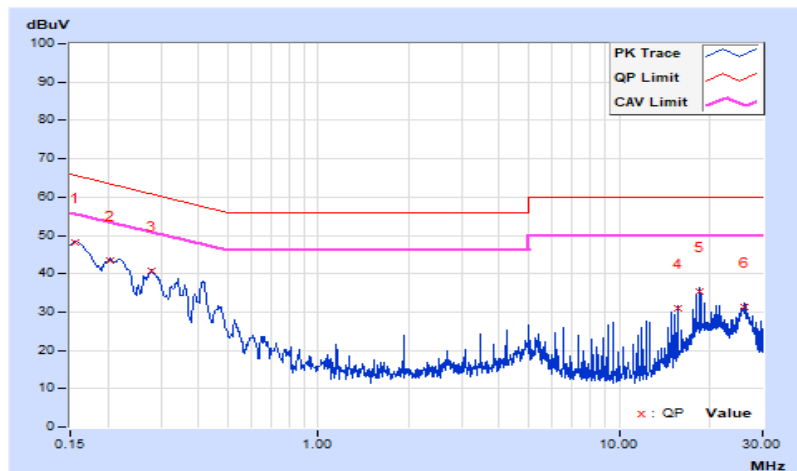


RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Jed Wu		

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	0.15522	8.80	39.36	31.87	48.16	40.67	65.72	55.72	-17.56	-15.05
2	0.20361	8.76	34.64	26.08	43.40	34.84	63.46	53.46	-20.06	-18.62
3	0.28000	8.74	31.93	24.20	40.67	32.94	60.82	50.82	-20.15	-17.88
4	15.74400	8.97	21.87	19.96	30.84	28.93	60.00	50.00	-29.16	-21.07
5	18.43200	9.03	26.45	24.37	35.48	33.40	60.00	50.00	-24.52	-16.60
6	26.11600	9.21	22.05	17.14	31.26	26.35	60.00	50.00	-28.74	-23.65

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



7.6 Unwanted Emissions below 1 GHz

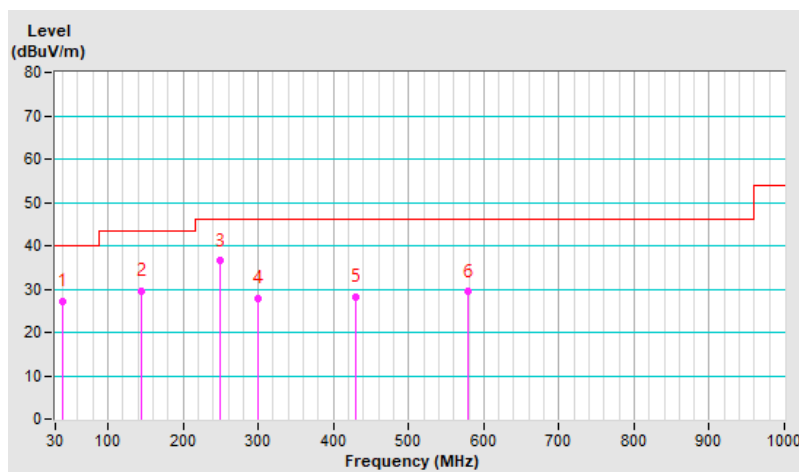
Mode A

RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 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	25 °C, 75% RH
Tested By	Jed Wu		

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	38.78	27.1 QP	40.0	-12.9	1.56 H	331	36.9	-9.8
2	144.17	29.6 QP	43.5	-13.9	1.23 H	182	37.8	-8.2
3	250.00	36.5 QP	46.0	-9.5	1.89 H	199	44.2	-7.7
4	300.00	27.8 QP	46.0	-18.2	1.47 H	137	33.4	-5.6
5	430.08	28.1 QP	46.0	-17.9	1.63 H	0	30.7	-2.6
6	578.87	29.4 QP	46.0	-16.6	1.07 H	259	28.9	0.5

Remarks:

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

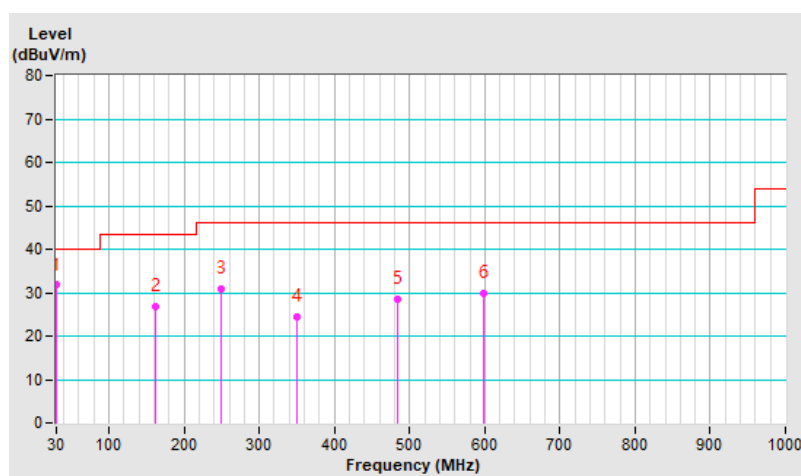


RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	31.7 QP	40.0	-8.3	1.72 V	330	42.1	-10.4
2	161.97	26.9 QP	43.5	-16.6	1.52 V	153	34.7	-7.8
3	250.00	30.8 QP	46.0	-15.2	1.33 V	195	38.5	-7.7
4	350.00	24.5 QP	46.0	-21.5	1.26 V	202	29.1	-4.6
5	483.57	28.4 QP	46.0	-17.6	1.05 V	347	29.8	-1.4
6	598.18	30.0 QP	46.0	-16.0	1.89 V	197	29.0	1.0

Remarks:

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



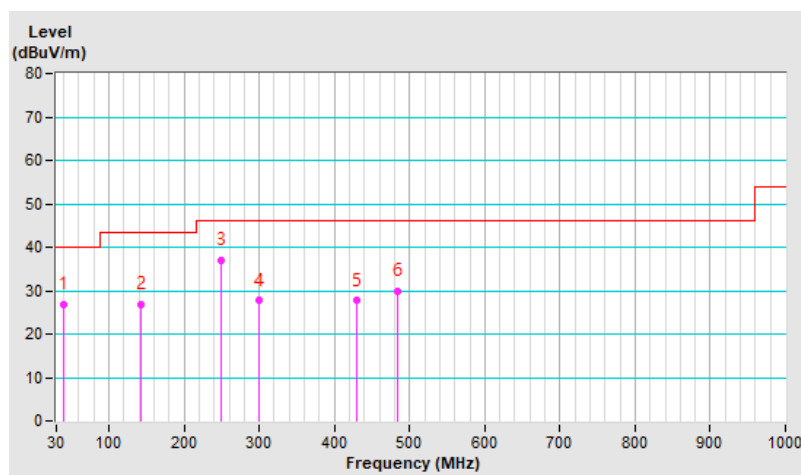
Mode B

RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 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	25 °C, 75% RH
Tested By	Jed Wu		

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	38.78	26.9 QP	40.0	-13.1	1.01 H	190	36.7	-9.8
2	142.03	26.9 QP	43.5	-16.6	1.24 H	180	35.3	-8.4
3	250.00	36.9 QP	46.0	-9.1	1.53 H	198	44.6	-7.7
4	299.95	27.7 QP	46.0	-18.3	1.78 H	143	33.3	-5.6
5	430.08	27.7 QP	46.0	-18.3	1.65 H	111	30.3	-2.6
6	484.20	30.0 QP	46.0	-16.0	1.93 H	228	31.4	-1.4

Remarks:

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

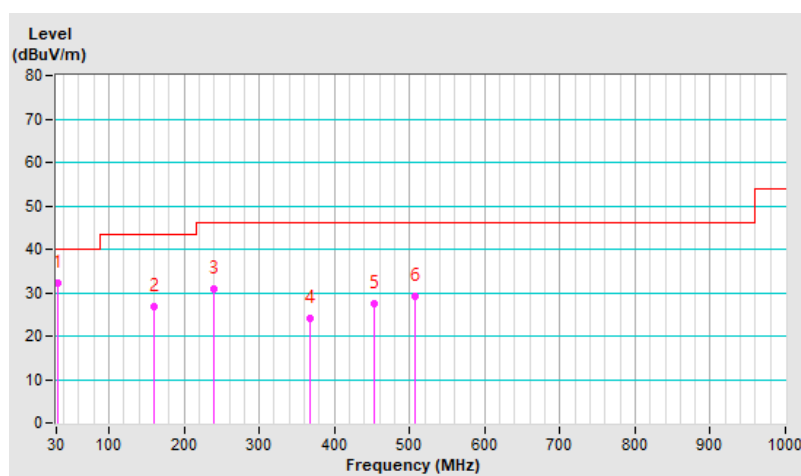


RF Mode	802.11ax (HE40)	Channel	CH 151 : 5755 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Jed Wu		

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	31.50	32.3 QP	40.0	-7.7	1.77 V	294	42.9	-10.6
2	159.54	26.9 QP	43.5	-16.6	1.84 V	24	34.6	-7.7
3	240.00	30.9 QP	46.0	-15.1	1.93 V	312	39.2	-8.3
4	368.24	24.0 QP	46.0	-22.0	1.65 V	69	28.2	-4.2
5	452.48	27.5 QP	46.0	-18.5	1.59 V	325	29.6	-2.1
6	507.92	29.2 QP	46.0	-16.8	1.42 V	174	30.4	-1.2

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.



7.7 Unwanted Emissions above 1 GHz

Mode A

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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

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	68.1 PK	74.0	-5.9	1.87 H	74	60.3	7.8
2	5150.00	49.5 AV	54.0	-4.5	1.87 H	74	41.7	7.8
3	*5180.00	109.5 PK			1.87 H	74	101.5	8.0
4	*5180.00	101.5 AV			1.87 H	74	93.5	8.0
5	#10360.00	54.5 PK	68.2	-13.7	1.62 H	128	37.9	16.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.6 PK	74.0	-12.4	1.96 V	255	53.8	7.8
2	5150.00	49.0 AV	54.0	-5.0	1.96 V	255	41.2	7.8
3	*5180.00	101.6 PK			1.96 V	255	93.6	8.0
4	*5180.00	93.5 AV			1.96 V	255	85.5	8.0
5	#10360.00	53.9 PK	68.2	-14.3	2.36 V	284	37.3	16.6

Remarks:

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

RF Mode	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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	108.8 PK			2.00 H	75	100.7	8.1
2	*5200.00	100.7 AV			2.00 H	75	92.6	8.1
3	#10400.00	53.8 PK	68.2	-14.4	1.75 H	129	37.1	16.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	100.9 PK			2.09 V	256	92.8	8.1
2	*5200.00	92.8 AV			2.09 V	256	84.7	8.1
3	#10400.00	53.2 PK	68.2	-15.0	2.46 V	283	36.5	16.7

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 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	109.9 PK			1.48 H	77	101.4	8.5
2	*5240.00	102.1 AV			1.48 H	77	93.6	8.5
3	5350.00	59.3 PK	74.0	-14.7	1.48 H	77	50.3	9.0
4	5350.00	47.9 AV	54.0	-6.1	1.48 H	77	38.9	9.0
5	#10480.00	54.2 PK	68.2	-14.0	1.23 H	131	37.8	16.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	101.9 PK			1.57 V	252	93.4	8.5
2	*5240.00	94.1 AV			1.57 V	252	85.6	8.5
3	5350.00	59.0 PK	74.0	-15.0	1.57 V	252	50.0	9.0
4	5350.00	47.6 AV	54.0	-6.4	1.57 V	252	38.6	9.0
5	#10480.00	53.7 PK	68.2	-14.5	1.97 V	281	37.3	16.4

Remarks:

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

RF Mode	802.11a	Channel	CH 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

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	59.5 PK	68.2	-8.7	1.50 H	74	50.3	9.2
2	*5745.00	108.1 PK			1.50 H	74	99.2	8.9
3	*5745.00	98.9 AV			1.50 H	74	90.0	8.9
4	#5930.40	59.2 PK	68.2	-9.0	1.50 H	74	50.0	9.2
5	11490.00	54.8 PK	74.0	-19.2	1.25 H	128	37.4	17.4
6	11490.00	42.7 AV	54.0	-11.3	1.25 H	128	25.3	17.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5632.80	59.4 PK	68.2	-8.8	1.59 V	256	50.3	9.1
2	*5745.00	100.5 PK			1.59 V	256	91.6	8.9
3	*5745.00	91.6 AV			1.59 V	256	82.7	8.9
4	#5966.40	59.0 PK	68.2	-9.2	1.59 V	256	49.9	9.1
5	11490.00	54.2 PK	74.0	-19.8	2.00 V	283	36.8	17.4
6	11490.00	42.2 AV	54.0	-11.8	2.00 V	283	24.8	17.4

Remarks:

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

RF Mode	802.11a	Channel	CH 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5614.80	59.3 PK	68.2	-8.9	1.66 H	74	50.0	9.3
2	*5785.00	108.6 PK			1.66 H	74	99.6	9.0
3	*5785.00	99.3 AV			1.66 H	74	90.3	9.0
4	#5986.40	59.0 PK	68.2	-9.2	1.66 H	74	50.0	9.0
5	11570.00	54.3 PK	74.0	-19.7	1.41 H	126	36.8	17.5
6	11570.00	43.2 AV	54.0	-10.8	1.41 H	126	25.7	17.5
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	#5608.40	59.3 PK	68.2	-8.9	1.75 V	255	50.0	9.3
2	*5785.00	100.7 PK			1.75 V	255	91.7	9.0
3	*5785.00	92.0 AV			1.75 V	255	83.0	9.0
4	#5946.40	60.4 PK	68.2	-7.8	1.75 V	255	51.3	9.1
5	11570.00	53.7 PK	74.0	-20.3	2.16 V	283	36.2	17.5
6	11570.00	41.7 AV	54.0	-12.3	2.16 V	283	24.2	17.5

Remarks:

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

RF Mode	802.11a	Channel	CH 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

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	#5601.20	59.1 PK	68.2	-9.1	1.64 H	74	49.7	9.4
2	*5825.00	107.9 PK			1.64 H	74	98.8	9.1
3	*5825.00	98.6 AV			1.64 H	74	89.5	9.1
4	#5944.40	59.0 PK	68.2	-9.2	1.64 H	74	49.9	9.1
5	11650.00	54.8 PK	74.0	-19.2	1.39 H	128	37.0	17.8
6	11650.00	42.7 AV	54.0	-11.3	1.39 H	128	24.9	17.8
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	#5641.20	59.7 PK	68.2	-8.5	1.73 V	257	50.5	9.2
2	*5825.00	99.9 PK			1.73 V	257	90.8	9.1
3	*5825.00	90.7 AV			1.73 V	257	81.6	9.1
4	#5940.40	59.4 PK	68.2	-8.8	1.73 V	257	50.3	9.1
5	11650.00	54.2 PK	74.0	-19.8	2.14 V	285	36.4	17.8
6	11650.00	42.2 AV	54.0	-11.8	2.14 V	285	24.4	17.8

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 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

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	72.3 PK	74.0	-1.7	1.84 H	74	64.5	7.8
2	5150.00	53.3 AV	54.0	-0.7	1.84 H	74	45.5	7.8
3	*5180.00	111.4 PK			1.84 H	74	103.4	8.0
4	*5180.00	99.8 AV			1.84 H	74	91.8	8.0
5	#10360.00	55.2 PK	68.2	-13.0	1.72 H	128	38.6	16.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.8 PK	74.0	-10.2	2.06 V	257	56.0	7.8
2	5150.00	48.1 AV	54.0	-5.9	2.06 V	257	40.3	7.8
3	*5180.00	103.3 PK			2.06 V	257	95.3	8.0
4	*5180.00	92.0 AV			2.06 V	257	84.0	8.0
5	#10360.00	54.6 PK	68.2	-13.6	2.47 V	283	38.0	16.6

Remarks:

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

RF Mode	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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	112.3 PK			1.38 H	76	104.2	8.1
2	*5200.00	100.4 AV			1.38 H	76	92.3	8.1
3	#10400.00	56.1 PK	68.2	-12.1	1.13 H	129	39.4	16.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	104.4 PK			1.47 V	258	96.3	8.1
2	*5200.00	92.6 AV			1.47 V	258	84.5	8.1
3	#10400.00	55.5 PK	68.2	-12.7	1.88 V	282	38.8	16.7

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 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	113.6 PK			1.45 H	74	105.1	8.5
2	*5240.00	102.5 AV			1.45 H	74	94.0	8.5
3	5350.00	59.4 PK	74.0	-14.6	1.45 H	74	50.4	9.0
4	5350.00	48.1 AV	54.0	-5.9	1.45 H	74	39.1	9.0
5	#10480.00	56.7 PK	68.2	-11.5	1.20 H	128	40.3	16.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	105.5 PK			1.54 V	255	97.0	8.5
2	*5240.00	94.0 AV			1.54 V	255	85.5	8.5
3	5350.00	59.1 PK	74.0	-14.9	1.54 V	255	50.1	9.0
4	5350.00	47.7 AV	54.0	-6.3	1.54 V	255	38.7	9.0
5	#10480.00	56.2 PK	68.2	-12.0	1.95 V	285	39.8	16.4

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.20	60.2 PK	68.2	-8.0	1.47 H	73	51.1	9.1
2	*5745.00	113.4 PK			1.47 H	73	104.5	8.9
3	*5745.00	101.1 AV			1.47 H	73	92.2	8.9
4	#5977.60	58.9 PK	68.2	-9.3	1.47 H	73	49.9	9.0
5	11490.00	55.3 PK	74.0	-18.7	1.27 H	125	37.9	17.4
6	11490.00	43.2 AV	54.0	-10.8	1.27 H	125	25.8	17.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5630.80	59.5 PK	68.2	-8.7	1.61 V	256	50.4	9.1
2	*5745.00	106.5 PK			1.61 V	256	97.6	8.9
3	*5745.00	94.5 AV			1.61 V	256	85.6	8.9
4	#5997.20	58.8 PK	68.2	-9.4	1.61 V	256	49.8	9.0
5	11490.00	54.7 PK	74.0	-19.3	2.02 V	285	37.3	17.4
6	11490.00	42.7 AV	54.0	-11.3	2.02 V	285	25.3	17.4

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

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	50.2 PK	68.2	-18.0	1.54 H	72	41.0	9.2
2	*5785.00	113.6 PK			1.54 H	72	104.6	9.0
3	*5785.00	101.6 AV			1.54 H	72	92.6	9.0
4	#5996.40	50.0 PK	68.2	-18.2	1.54 H	72	41.0	9.0
5	11570.00	56.1 PK	74.0	-17.9	1.24 H	124	38.6	17.5
6	11570.00	44.0 AV	54.0	-10.0	1.24 H	124	26.5	17.5
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	#5634.00	59.3 PK	68.2	-8.9	1.58 V	255	50.2	9.1
2	*5785.00	104.5 PK			1.58 V	255	95.5	9.0
3	*5785.00	92.7 AV			1.58 V	255	83.7	9.0
4	#5946.40	59.1 PK	68.2	-9.1	1.58 V	255	50.0	9.1
5	11570.00	55.5 PK	74.0	-18.5	1.99 V	286	38.0	17.5
6	11570.00	43.5 AV	54.0	-10.5	1.99 V	286	26.0	17.5

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5606.00	59.2 PK	68.2	-9.0	1.62 H	72	49.8	9.4
2	*5825.00	112.2 PK			1.62 H	72	103.1	9.1
3	*5825.00	100.3 AV			1.62 H	72	91.2	9.1
4	#5962.40	59.1 PK	68.2	-9.1	1.62 H	72	50.0	9.1
5	11650.00	56.7 PK	74.0	-17.3	1.25 H	123	38.9	17.8
6	11650.00	44.6 AV	54.0	-9.4	1.25 H	123	26.8	17.8
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	#5639.60	59.4 PK	68.2	-8.8	1.59 V	260	50.3	9.1
2	*5825.00	104.0 PK			1.59 V	260	94.9	9.1
3	*5825.00	92.3 AV			1.59 V	260	83.2	9.1
4	#5986.00	59.0 PK	68.2	-9.2	1.59 V	260	50.0	9.0
5	11650.00	56.1 PK	74.0	-17.9	1.80 V	281	38.3	17.8
6	11650.00	44.1 AV	54.0	-9.9	1.80 V	281	26.3	17.8

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 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

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	68.9 PK	74.0	-5.1	1.82 H	73	61.1	7.8
2	5150.00	52.8 AV	54.0	-1.2	1.82 H	73	45.0	7.8
3	*5190.00	106.6 PK			1.82 H	73	98.6	8.0
4	*5190.00	94.8 AV			1.82 H	73	86.8	8.0
5	#10380.00	55.4 PK	68.2	-12.8	1.54 H	129	38.7	16.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.8 PK	74.0	-12.2	1.88 V	260	54.0	7.8
2	5150.00	48.2 AV	54.0	-5.8	1.88 V	260	40.4	7.8
3	*5190.00	99.3 PK			1.88 V	260	91.3	8.0
4	*5190.00	87.0 AV			1.88 V	260	79.0	8.0
5	#10380.00	54.8 PK	68.2	-13.4	2.29 V	287	38.1	16.7

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 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	111.9 PK			1.36 H	76	103.5	8.4
2	*5230.00	100.7 AV			1.36 H	76	92.3	8.4
3	5350.00	61.4 PK	74.0	-12.6	1.36 H	76	52.4	9.0
4	5350.00	49.6 AV	54.0	-4.4	1.36 H	76	40.6	9.0
5	#10460.00	55.3 PK	68.2	-12.9	1.11 H	128	38.8	16.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	104.6 PK			1.45 V	259	96.2	8.4
2	*5230.00	93.0 AV			1.45 V	259	84.6	8.4
3	5350.00	59.9 PK	74.0	-14.1	1.45 V	259	50.9	9.0
4	5350.00	48.1 AV	54.0	-5.9	1.45 V	259	39.1	9.0
5	#10460.00	54.7 PK	68.2	-13.5	1.86 V	282	38.2	16.5

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

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	#5646.40	66.4 PK	68.2	-1.8	1.38 H	72	57.3	9.1
2	*5755.00	111.5 PK			1.38 H	72	102.6	8.9
3	*5755.00	99.5 AV			1.38 H	72	90.6	8.9
4	#5948.80	59.5 PK	68.2	-8.7	1.38 H	72	50.4	9.1
5	11510.00	56.8 PK	74.0	-17.2	1.27 H	129	39.3	17.5
6	11510.00	44.7 AV	54.0	-9.3	1.27 H	129	27.2	17.5
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	#5644.40	62.2 PK	68.2	-6.0	1.61 V	260	53.0	9.2
2	*5755.00	103.7 PK			1.61 V	260	94.8	8.9
3	*5755.00	91.9 AV			1.61 V	260	83.0	8.9
4	#5979.60	59.3 PK	68.2	-8.9	1.61 V	260	50.3	9.0
5	11510.00	56.2 PK	74.0	-17.8	2.02 V	287	38.7	17.5
6	11510.00	44.2 AV	54.0	-9.8	2.02 V	287	26.7	17.5

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

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	#5605.60	59.3 PK	68.2	-8.9	1.64 H	72	49.9	9.4
2	*5795.00	111.1 PK			1.64 H	72	102.1	9.0
3	*5795.00	99.2 AV			1.64 H	72	90.2	9.0
4	#5945.60	59.4 PK	68.2	-8.8	1.64 H	72	50.3	9.1
5	11590.00	56.3 PK	74.0	-17.7	1.42 H	127	38.7	17.6
6	11590.00	44.2 AV	54.0	-9.8	1.42 H	127	26.6	17.6
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	#5624.80	59.2 PK	68.2	-9.0	1.76 V	256	50.0	9.2
2	*5795.00	104.1 PK			1.76 V	256	95.1	9.0
3	*5795.00	92.6 AV			1.76 V	256	83.6	9.0
4	#5959.60	59.0 PK	68.2	-9.2	1.76 V	256	49.9	9.1
5	11590.00	55.7 PK	74.0	-18.3	2.17 V	285	38.1	17.6
6	11590.00	43.7 AV	54.0	-10.3	2.17 V	285	26.1	17.6

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 (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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

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	69.0 PK	74.0	-5.0	1.37 H	75	61.2	7.8
2	5150.00	53.4 AV	54.0	-0.6	1.37 H	75	45.6	7.8
3	*5210.00	104.5 PK			1.37 H	75	96.3	8.2
4	*5210.00	92.7 AV			1.37 H	75	84.5	8.2
5	5350.00	61.1 PK	74.0	-12.9	1.37 H	75	52.1	9.0
6	5350.00	49.0 AV	54.0	-5.0	1.37 H	75	40.0	9.0
7	#10420.00	55.2 PK	68.2	-13.0	1.12 H	127	38.6	16.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.6 PK	74.0	-11.4	1.46 V	258	54.8	7.8
2	5150.00	49.0 AV	54.0	-5.0	1.46 V	258	41.2	7.8
3	*5210.00	97.2 PK			1.46 V	258	89.0	8.2
4	*5210.00	85.3 AV			1.46 V	258	77.1	8.2
5	5350.00	59.8 PK	74.0	-14.2	1.46 V	258	50.8	9.0
6	5350.00	47.8 AV	54.0	-6.2	1.46 V	258	38.8	9.0
7	#10420.00	54.7 PK	68.2	-13.5	1.87 V	283	38.1	16.6

Remarks:

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

RF Mode	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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

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	67.6 PK	68.2	-0.6	1.47 H	71	58.5	9.1
2	*5775.00	106.2 PK			1.47 H	71	97.1	9.1
3	*5775.00	94.2 AV			1.47 H	71	85.1	9.1
4	#5940.40	62.1 PK	68.2	-6.1	1.47 H	71	53.0	9.1
5	11550.00	56.8 PK	74.0	-17.2	1.26 H	124	39.2	17.6
6	11550.00	44.7 AV	54.0	-9.3	1.26 H	124	27.1	17.6
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	#5647.60	62.5 PK	68.2	-5.7	1.60 V	259	53.4	9.1
2	*5775.00	98.6 PK			1.60 V	259	89.5	9.1
3	*5775.00	86.8 AV			1.60 V	259	77.7	9.1
4	#5963.20	59.7 PK	68.2	-8.5	1.60 V	259	50.6	9.1
5	11550.00	56.2 PK	74.0	-17.8	2.01 V	286	38.6	17.6
6	11550.00	44.2 AV	54.0	-9.8	2.01 V	286	26.6	17.6

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.

Mode B

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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

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	66.5 PK	74.0	-7.5	2.94 H	120	58.7	7.8
2	5150.00	48.8 AV	54.0	-5.2	2.94 H	120	41.0	7.8
3	*5180.00	107.0 PK			2.94 H	120	99.0	8.0
4	*5180.00	99.0 AV			2.94 H	120	91.0	8.0
5	#10360.00	55.8 PK	68.2	-12.4	2.70 H	171	39.2	16.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.7 PK	74.0	-5.3	1.41 V	125	60.9	7.8
2	5150.00	49.8 AV	54.0	-4.2	1.41 V	125	42.0	7.8
3	*5180.00	108.5 PK			1.41 V	125	100.5	8.0
4	*5180.00	100.4 AV			1.41 V	125	92.4	8.0
5	#10360.00	56.8 PK	68.2	-11.4	1.48 V	172	40.2	16.6

Remarks:

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

RF Mode	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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	107.6 PK			2.89 H	119	99.5	8.1
2	*5200.00	99.6 AV			2.89 H	119	91.5	8.1
3	#10400.00	56.4 PK	68.2	-11.8	2.65 H	170	39.7	16.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	109.1 PK			1.48 V	123	101.0	8.1
2	*5200.00	101.0 AV			1.48 V	123	92.9	8.1
3	#10400.00	57.4 PK	68.2	-10.8	1.65 V	177	40.7	16.7

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 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	108.6 PK			2.78 H	121	100.1	8.5
2	*5240.00	100.4 AV			2.78 H	121	91.9	8.5
3	5350.00	59.5 PK	74.0	-14.5	2.78 H	121	50.5	9.0
4	5350.00	47.3 AV	54.0	-6.7	2.78 H	121	38.3	9.0
5	#10480.00	54.2 PK	68.2	-14.0	2.54 H	172	37.8	16.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	109.7 PK			1.39 V	124	101.2	8.5
2	*5240.00	101.5 AV			1.39 V	124	93.0	8.5
3	5350.00	59.8 PK	74.0	-14.2	1.39 V	124	50.8	9.0
4	5350.00	47.6 AV	54.0	-6.4	1.39 V	124	38.6	9.0
5	#10480.00	55.3 PK	68.2	-12.9	1.38 V	168	38.9	16.4

Remarks:

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

RF Mode	802.11a	Channel	CH 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5614.40	60.2 PK	68.2	-8.0	3.96 H	121	50.9	9.3
2	*5745.00	107.2 PK			3.96 H	121	98.3	8.9
3	*5745.00	98.4 AV			3.96 H	121	89.5	8.9
4	#5975.60	59.3 PK	68.2	-8.9	3.96 H	121	50.3	9.0
5	11490.00	54.5 PK	74.0	-19.5	3.79 H	175	37.1	17.4
6	11490.00	42.4 AV	54.0	-11.6	3.79 H	175	25.0	17.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5617.20	59.4 PK	68.2	-8.8	2.69 V	125	50.1	9.3
2	*5745.00	108.4 PK			2.69 V	125	99.5	8.9
3	*5745.00	99.4 AV			2.69 V	125	90.5	8.9
4	#5977.20	59.5 PK	68.2	-8.7	2.69 V	125	50.5	9.0
5	11490.00	55.6 PK	74.0	-18.4	2.66 V	170	38.2	17.4
6	11490.00	43.5 AV	54.0	-10.5	2.66 V	170	26.1	17.4

Remarks:

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

RF Mode	802.11a	Channel	CH 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

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	#5621.60	59.2 PK	68.2	-9.0	3.98 H	123	49.9	9.3
2	*5785.00	106.2 PK			3.98 H	123	97.2	9.0
3	*5785.00	97.0 AV			3.98 H	123	88.0	9.0
4	#5981.60	58.6 PK	68.2	-9.6	3.98 H	123	49.6	9.0
5	11570.00	55.5 PK	74.0	-18.5	3.82 H	173	38.0	17.5
6	11570.00	43.4 AV	54.0	-10.6	3.82 H	173	25.9	17.5
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	#5637.20	60.5 PK	68.2	-7.7	1.52 V	256	51.4	9.1
2	*5785.00	107.4 PK			1.52 V	256	98.4	9.0
3	*5785.00	98.3 AV			1.52 V	256	89.3	9.0
4	#5966.00	59.4 PK	68.2	-8.8	1.52 V	256	50.3	9.1
5	11570.00	56.6 PK	74.0	-17.4	1.61 V	278	39.1	17.5
6	11570.00	44.5 AV	54.0	-9.5	1.61 V	278	27.0	17.5

Remarks:

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

RF Mode	802.11a	Channel	CH 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5610.80	59.2 PK	68.2	-9.0	3.96 H	122	49.9	9.3
2	*5825.00	107.9 PK			3.96 H	122	98.8	9.1
3	*5825.00	98.8 AV			3.96 H	122	89.7	9.1
4	#5963.60	59.2 PK	68.2	-9.0	3.96 H	122	50.1	9.1
5	11650.00	55.4 PK	74.0	-18.6	3.80 H	168	37.6	17.8
6	11650.00	43.3 AV	54.0	-10.7	3.80 H	168	25.5	17.8
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	#5630.00	59.2 PK	68.2	-9.0	2.73 V	125	50.1	9.1
2	*5825.00	109.1 PK			2.73 V	125	100.0	9.1
3	*5825.00	100.2 AV			2.73 V	125	91.1	9.1
4	#5960.40	59.6 PK	68.2	-8.6	2.73 V	125	50.5	9.1
5	11650.00	56.5 PK	74.0	-17.5	2.66 V	169	38.7	17.8
6	11650.00	44.4 AV	54.0	-9.6	2.66 V	169	26.6	17.8

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 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

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	70.1 PK	74.0	-3.9	2.90 H	135	62.3	7.8
2	5150.00	53.3 AV	54.0	-0.7	2.90 H	135	45.5	7.8
3	*5180.00	108.8 PK			2.90 H	135	100.8	8.0
4	*5180.00	97.3 AV			2.90 H	135	89.3	8.0
5	#10360.00	56.6 PK	68.2	-11.6	2.67 H	163	40.0	16.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	71.0 PK	74.0	-3.0	1.49 V	126	63.2	7.8
2	5150.00	53.5 AV	54.0	-0.5	1.49 V	126	45.7	7.8
3	*5180.00	110.3 PK			1.49 V	126	102.3	8.0
4	*5180.00	99.0 AV			1.49 V	126	91.0	8.0
5	#10360.00	57.6 PK	68.2	-10.6	1.56 V	173	41.0	16.6

Remarks:

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

RF Mode	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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	108.4 PK			2.92 H	143	100.3	8.1
2	*5200.00	96.9 AV			2.92 H	143	88.8	8.1
3	#10400.00	56.2 PK	68.2	-12.0	2.65 H	182	39.5	16.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	109.9 PK			1.49 V	264	101.8	8.1
2	*5200.00	98.8 AV			1.49 V	264	90.7	8.1
3	#10400.00	57.2 PK	68.2	-11.0	1.57 V	311	40.5	16.7

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 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	110.3 PK			2.81 H	144	101.8	8.5
2	*5240.00	98.9 AV			2.81 H	144	90.4	8.5
3	5350.00	58.8 PK	74.0	-15.2	2.81 H	144	49.8	9.0
4	5350.00	47.3 AV	54.0	-6.7	2.81 H	144	38.3	9.0
5	#10480.00	56.7 PK	68.2	-11.5	2.58 H	178	40.3	16.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	112.0 PK			1.51 V	265	103.5	8.5
2	*5240.00	100.9 AV			1.51 V	265	92.4	8.5
3	5350.00	59.1 PK	74.0	-14.9	1.51 V	265	50.1	9.0
4	5350.00	47.6 AV	54.0	-6.4	1.51 V	265	38.6	9.0
5	#10480.00	57.7 PK	68.2	-10.5	1.58 V	312	41.3	16.4

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.20	59.7 PK	68.2	-8.5	2.85 H	142	50.6	9.1
2	*5745.00	110.4 PK			2.85 H	142	101.5	8.9
3	*5745.00	98.5 AV			2.85 H	142	89.6	8.9
4	#5931.20	59.0 PK	68.2	-9.2	2.85 H	142	49.8	9.2
5	11490.00	55.3 PK	74.0	-18.7	2.62 H	176	37.9	17.4
6	11490.00	42.9 AV	54.0	-11.1	2.62 H	176	25.5	17.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.60	59.8 PK	68.2	-8.4	2.70 V	126	50.7	9.1
2	*5745.00	112.1 PK			2.70 V	126	103.2	8.9
3	*5745.00	99.9 AV			2.70 V	126	91.0	8.9
4	#5994.40	59.4 PK	68.2	-8.8	2.70 V	126	50.4	9.0
5	11490.00	56.4 PK	74.0	-17.6	2.77 V	165	39.0	17.4
6	11490.00	44.3 AV	54.0	-9.7	2.77 V	165	26.9	17.4

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

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	#5617.60	58.9 PK	68.2	-9.3	2.83 H	145	49.6	9.3
2	*5785.00	107.8 PK			2.83 H	145	98.8	9.0
3	*5785.00	95.7 AV			2.83 H	145	86.7	9.0
4	#5936.00	59.2 PK	68.2	-9.0	2.83 H	145	50.0	9.2
5	11570.00	54.7 PK	74.0	-19.3	2.58 H	173	37.2	17.5
6	11570.00	42.4 AV	54.0	-11.6	2.58 H	173	24.9	17.5
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	#5610.40	59.3 PK	68.2	-8.9	1.01 V	295	50.0	9.3
2	*5785.00	109.5 PK			1.01 V	295	100.5	9.0
3	*5785.00	97.5 AV			1.01 V	295	88.5	9.0
4	#5962.80	59.0 PK	68.2	-9.2	1.01 V	295	49.9	9.1
5	11570.00	55.8 PK	74.0	-18.2	1.08 V	334	38.3	17.5
6	11570.00	43.7 AV	54.0	-10.3	1.08 V	334	26.2	17.5

Remarks:

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

RF Mode	802.11ax (HE20)	Channel	CH 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5641.60	59.2 PK	68.2	-9.0	2.85 H	148	50.0	9.2
2	*5825.00	109.0 PK			2.85 H	148	99.9	9.1
3	*5825.00	96.9 AV			2.85 H	148	87.8	9.1
4	#5992.00	59.2 PK	68.2	-9.0	2.85 H	148	50.2	9.0
5	11650.00	55.5 PK	74.0	-18.5	2.53 H	170	37.7	17.8
6	11650.00	43.1 AV	54.0	-10.9	2.53 H	170	25.3	17.8
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	#5631.20	59.0 PK	68.2	-9.2	1.55 V	254	49.9	9.1
2	*5825.00	110.6 PK			1.55 V	254	101.5	9.1
3	*5825.00	98.7 AV			1.55 V	254	89.6	9.1
4	#5946.80	59.2 PK	68.2	-9.0	1.55 V	254	50.1	9.1
5	11650.00	56.6 PK	74.0	-17.4	1.62 V	293	38.8	17.8
6	11650.00	44.5 AV	54.0	-9.5	1.62 V	293	26.7	17.8

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 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

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	68.3 PK	74.0	-5.7	3.61 H	185	60.5	7.8
2	5150.00	52.4 AV	54.0	-1.6	3.61 H	185	44.6	7.8
3	*5190.00	104.1 PK			3.61 H	185	96.1	8.0
4	*5190.00	92.8 AV			3.61 H	185	84.8	8.0
5	#10380.00	52.0 PK	68.2	-16.2	3.37 H	218	35.3	16.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.6 PK	74.0	-5.4	1.48 V	126	60.8	7.8
2	5150.00	52.9 AV	54.0	-1.1	1.48 V	126	45.1	7.8
3	*5190.00	106.0 PK			1.48 V	126	98.0	8.0
4	*5190.00	93.9 AV			1.48 V	126	85.9	8.0
5	#10380.00	53.0 PK	68.2	-15.2	1.90 V	299	36.3	16.7

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 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	108.4 PK			3.48 H	82	100.0	8.4
2	*5230.00	96.5 AV			3.48 H	82	88.1	8.4
3	5350.00	59.9 PK	74.0	-14.1	3.48 H	82	50.9	9.0
4	5350.00	48.5 AV	54.0	-5.5	3.48 H	82	39.5	9.0
5	#10460.00	53.4 PK	68.2	-14.8	3.24 H	115	36.9	16.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	109.7 PK			1.47 V	126	101.3	8.4
2	*5230.00	98.4 AV			1.47 V	126	90.0	8.4
3	5350.00	60.7 PK	74.0	-13.3	1.47 V	126	51.7	9.0
4	5350.00	49.2 AV	54.0	-4.8	1.47 V	126	40.2	9.0
5	#10460.00	54.4 PK	68.2	-13.8	1.77 V	196	37.9	16.5

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

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	62.5 PK	68.2	-5.7	3.20 H	191	53.4	9.1
2	*5755.00	108.6 PK			3.20 H	191	99.7	8.9
3	*5755.00	96.6 AV			3.20 H	191	87.7	8.9
4	#5944.80	60.3 PK	68.2	-7.9	3.20 H	191	51.2	9.1
5	11510.00	55.4 PK	74.0	-18.6	2.96 H	224	37.9	17.5
6	11510.00	43.3 AV	54.0	-10.7	2.96 H	224	25.8	17.5
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	#5649.20	63.5 PK	68.2	-4.7	2.76 V	127	54.4	9.1
2	*5755.00	110.5 PK			2.76 V	127	101.6	8.9
3	*5755.00	98.4 AV			2.76 V	127	89.5	8.9
4	#5926.00	59.4 PK	68.2	-8.8	2.76 V	127	50.2	9.2
5	11510.00	56.4 PK	74.0	-17.6	2.05 V	87	38.9	17.5
6	11510.00	44.3 AV	54.0	-9.7	2.05 V	87	26.8	17.5

Remarks:

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

RF Mode	802.11ax (HE40)	Channel	CH 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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5606.00	59.1 PK	68.2	-9.1	2.60 H	85	49.7	9.4
2	*5795.00	107.5 PK			2.60 H	85	98.5	9.0
3	*5795.00	95.5 AV			2.60 H	85	86.5	9.0
4	#5928.40	60.7 PK	68.2	-7.5	2.60 H	85	51.5	9.2
5	11590.00	55.2 PK	74.0	-18.8	2.36 H	118	37.6	17.6
6	11590.00	43.1 AV	54.0	-10.9	2.36 H	118	25.5	17.6
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	#5605.20	60.2 PK	68.2	-8.0	1.50 V	257	50.8	9.4
2	*5795.00	108.7 PK			1.50 V	257	99.7	9.0
3	*5795.00	96.7 AV			1.50 V	257	87.7	9.0
4	#5967.60	60.1 PK	68.2	-8.1	1.50 V	257	51.0	9.1
5	11590.00	56.2 PK	74.0	-17.8	1.45 V	341	38.6	17.6
6	11590.00	44.1 AV	54.0	-9.9	1.45 V	341	26.5	17.6

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 (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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.7 PK	74.0	-6.3	2.47 H	221	59.9	7.8
2	5150.00	52.6 AV	54.0	-1.4	2.47 H	221	44.8	7.8
3	*5210.00	101.9 PK			2.47 H	221	93.7	8.2
4	*5210.00	90.2 AV			2.47 H	221	82.0	8.2
5	5350.00	59.9 PK	74.0	-14.1	2.47 H	221	50.9	9.0
6	5350.00	48.2 AV	54.0	-5.8	2.47 H	221	39.2	9.0
7	#10420.00	53.4 PK	68.2	-14.8	2.23 H	250	36.8	16.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	68.1 PK	74.0	-5.9	1.41 V	125	60.3	7.8
2	5150.00	53.2 AV	54.0	-0.8	1.41 V	125	45.4	7.8
3	*5210.00	103.1 PK			1.41 V	125	94.9	8.2
4	*5210.00	91.4 AV			1.41 V	125	83.2	8.2
5	5350.00	60.3 PK	74.0	-13.7	1.41 V	125	51.3	9.0
6	5350.00	48.6 AV	54.0	-5.4	1.41 V	125	39.6	9.0
7	#10420.00	54.4 PK	68.2	-13.8	1.36 V	209	37.8	16.6

Remarks:

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

RF Mode	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	25.9 °C, 75.8% RH
Tested By	Jed Wu		

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	#5646.80	66.1 PK	68.2	-2.1	1.41 H	220	57.0	9.1
2	*5775.00	105.4 PK			1.41 H	220	96.3	9.1
3	*5775.00	93.7 AV			1.41 H	220	84.6	9.1
4	#5929.60	62.2 PK	68.2	-6.0	1.41 H	220	53.0	9.2
5	11550.00	54.6 PK	74.0	-19.4	1.21 H	271	37.0	17.6
6	11550.00	42.5 AV	54.0	-11.5	1.21 H	271	24.9	17.6
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	#5647.20	67.2 PK	68.2	-1.0	2.69 V	126	58.1	9.1
2	*5775.00	106.1 PK			2.69 V	126	97.0	9.1
3	*5775.00	94.0 AV			2.69 V	126	84.9	9.1
4	#5940.80	63.5 PK	68.2	-4.7	2.69 V	126	54.4	9.1
5	11550.00	55.6 PK	74.0	-18.4	2.60 V	206	38.0	17.6
6	11550.00	43.5 AV	54.0	-10.5	2.60 V	206	25.9	17.6

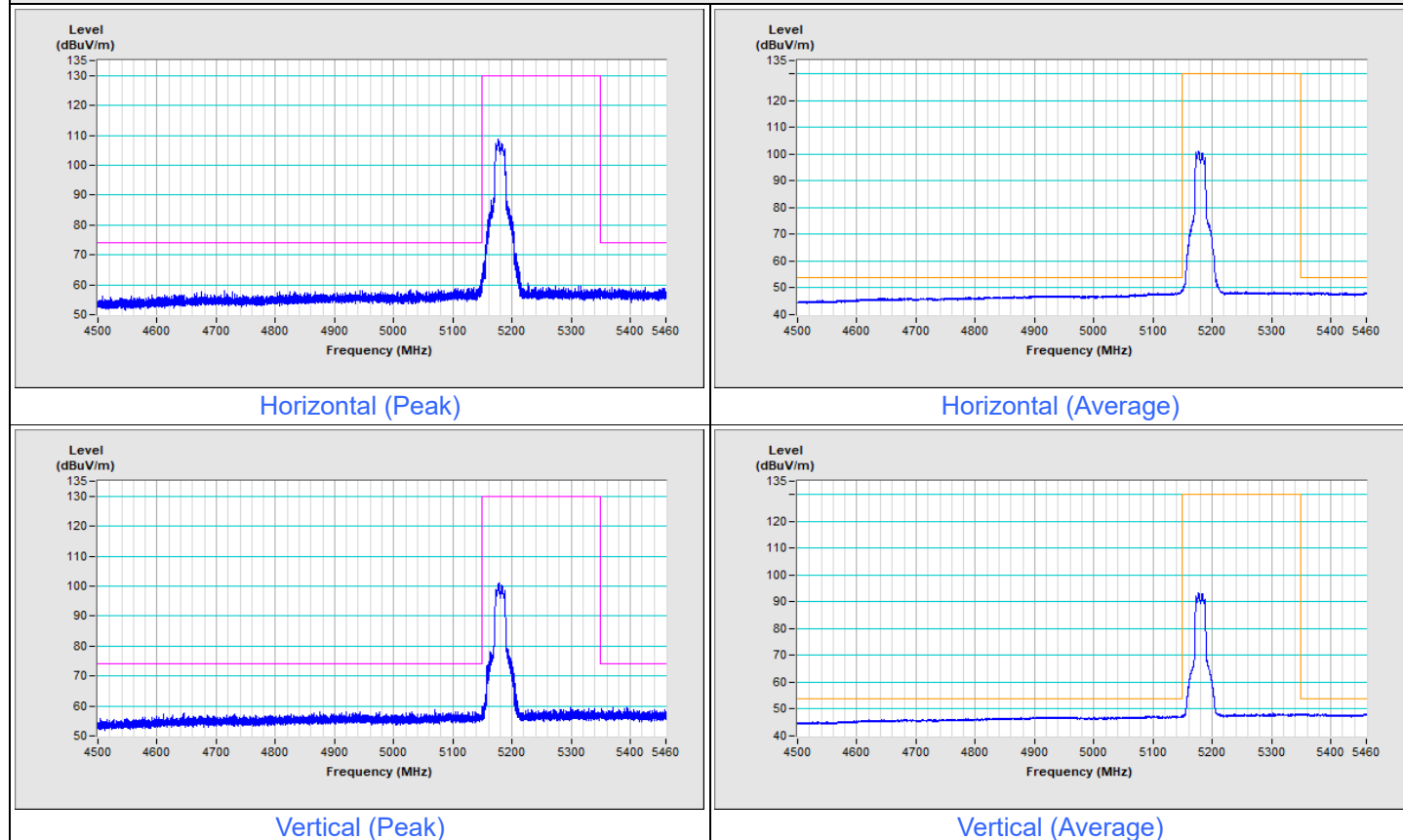
Remarks:

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.

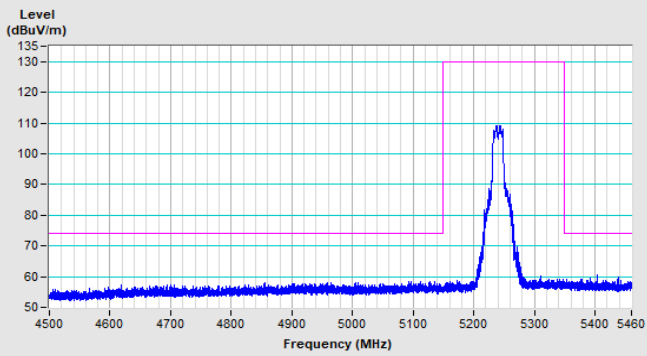
Plot of Band Edge_Mode A

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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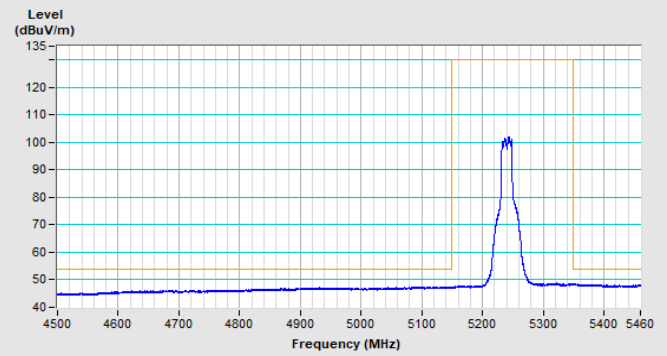
802.11a Channel 36



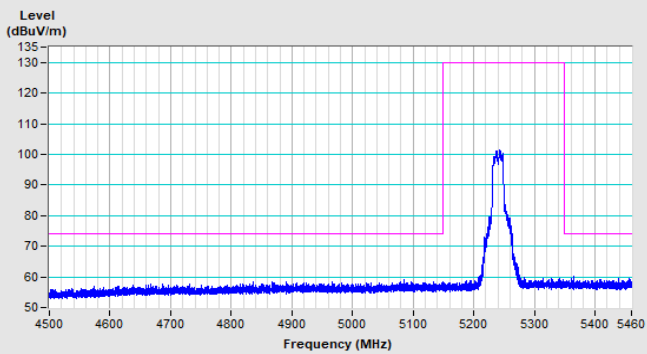
802.11a Channel 48



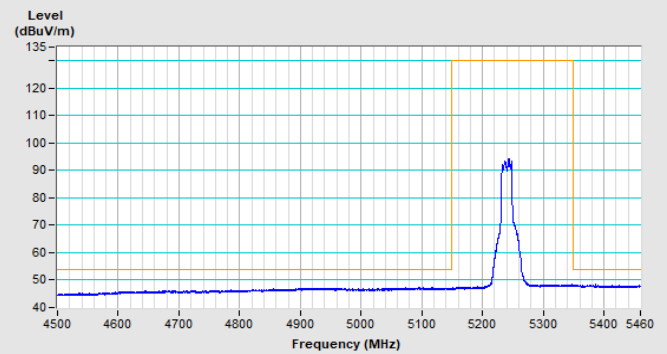
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

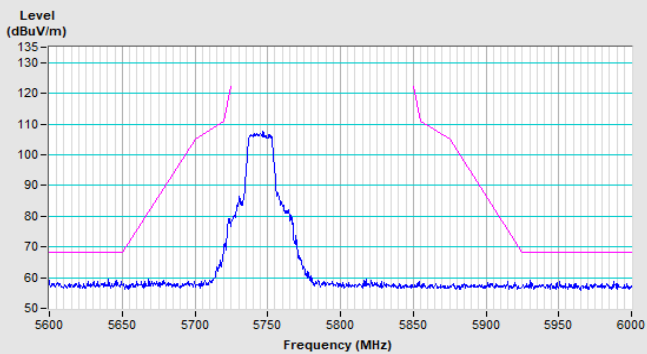
Frequency Range

5.6 GHz ~ 6 GHz

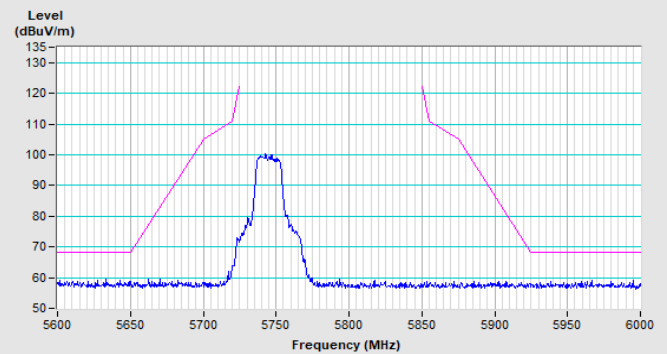
Detector Function &
Bandwidth

PK: RB=1 MHz, VB=3 MHz, DET=Peak

802.11a Channel 149

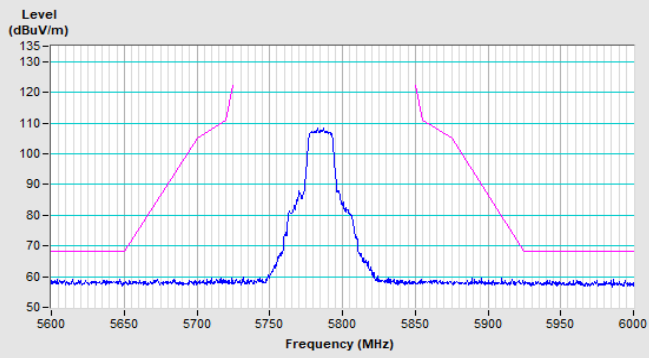


Horizontal (Peak)

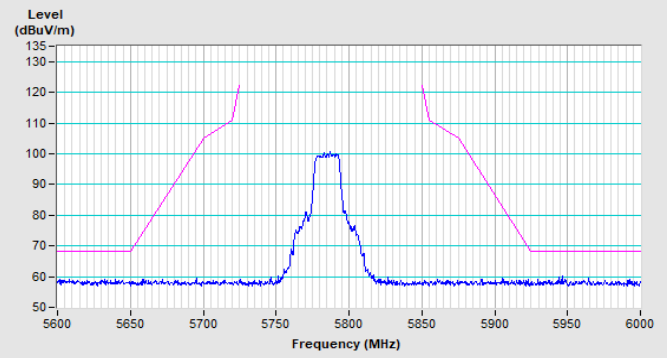


Vertical (Peak)

802.11a Channel 157

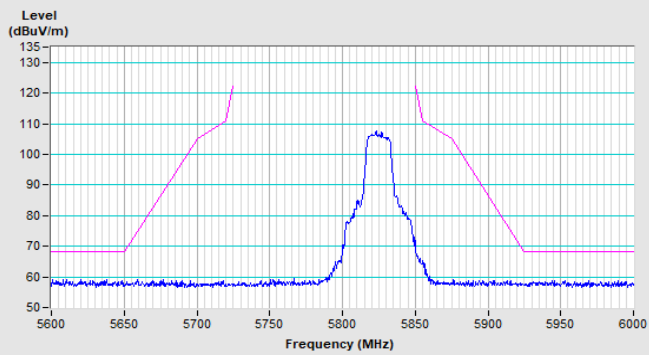


Horizontal (Peak)

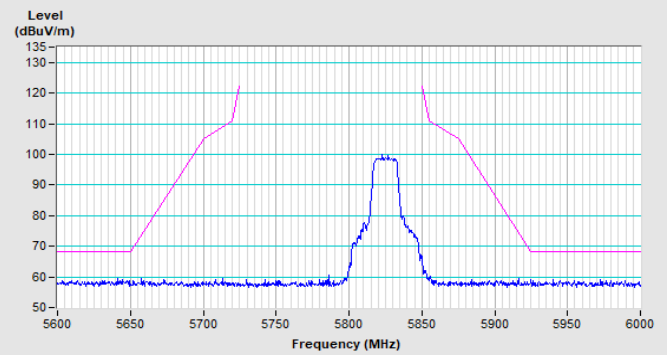


Vertical (Peak)

802.11a Channel 165



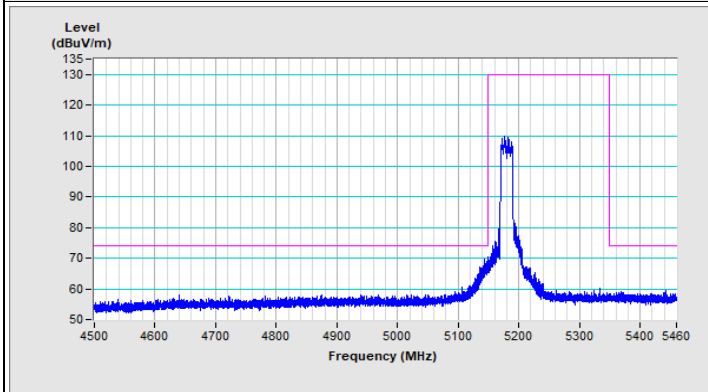
Horizontal (Peak)



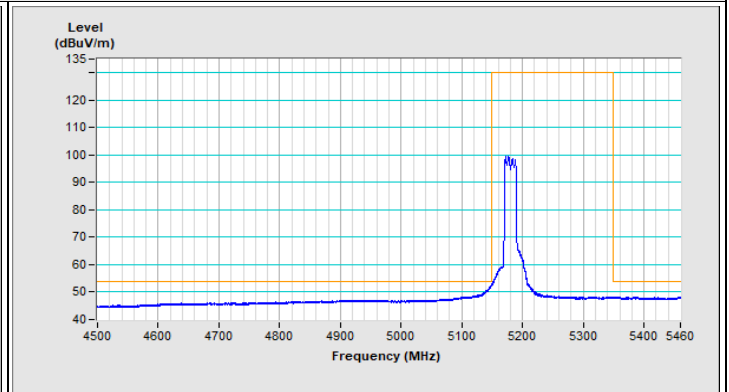
Vertical (Peak)

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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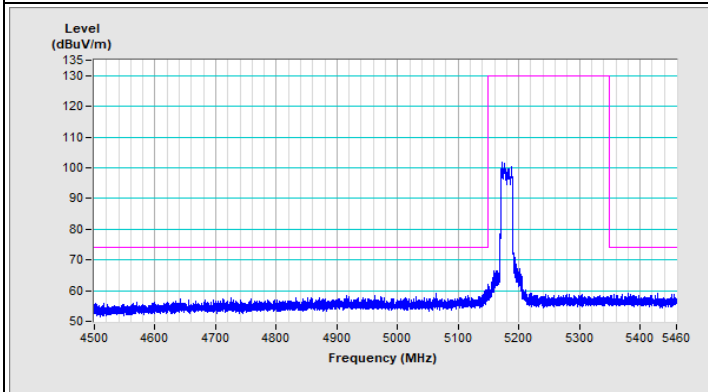
802.11ax (HE20) Channel 36



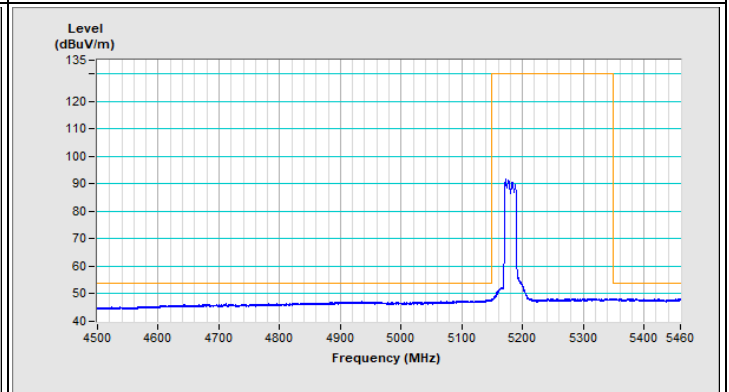
Horizontal (Peak)



Horizontal (Average)

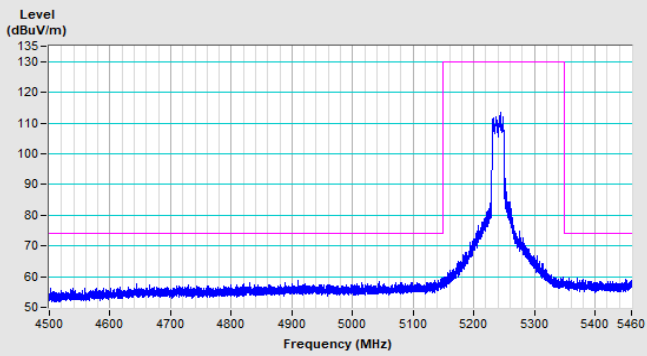


Vertical (Peak)

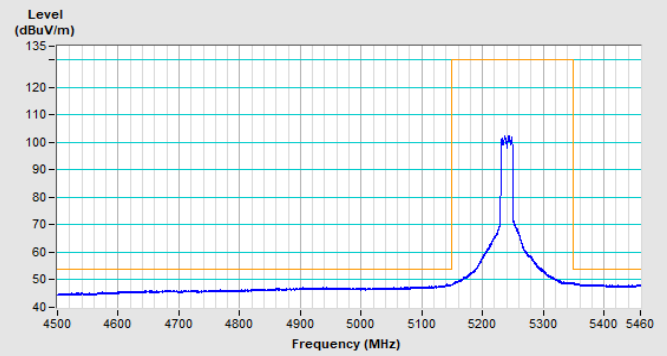


Vertical (Average)

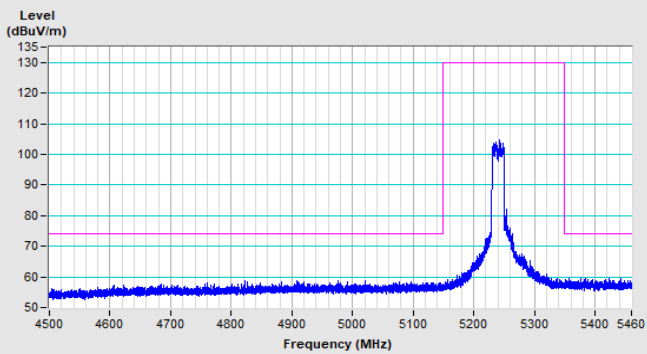
802.11ax (HE20) Channel 48



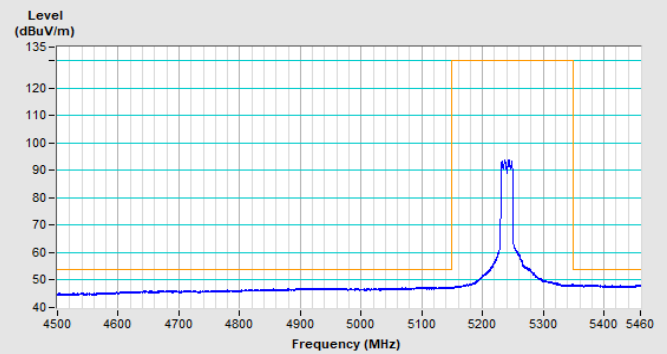
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

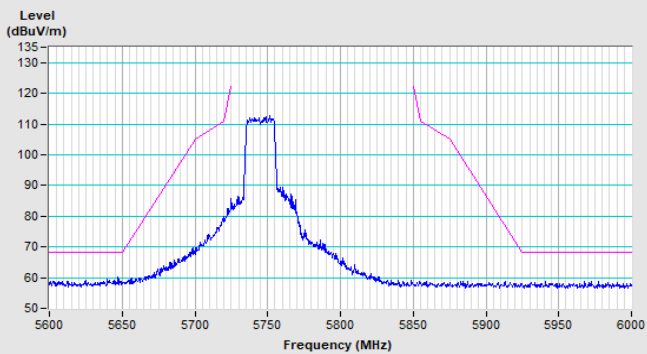
Frequency Range

5.6 GHz ~ 6 GHz

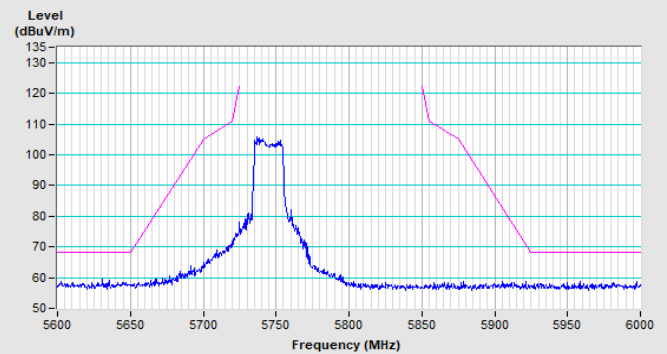
Detector Function &
Bandwidth

PK: RB=1 MHz, VB=3 MHz, DET=Peak

802.11ax (HE20) Channel 149

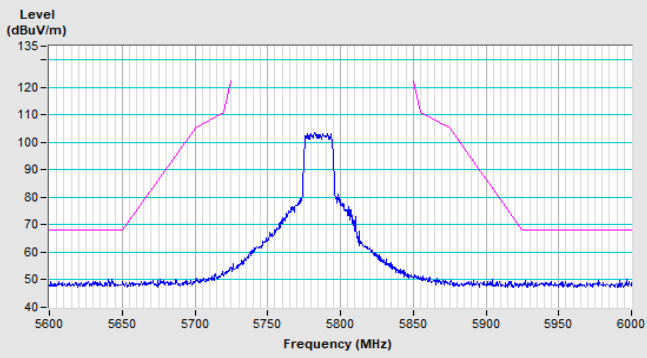


Horizontal (Peak)

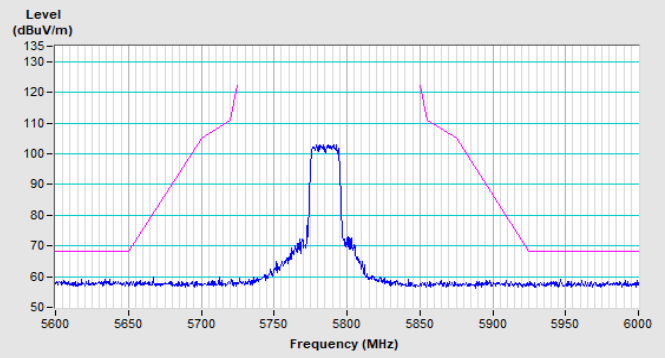


Vertical (Peak)

802.11ax (HE20) Channel 157

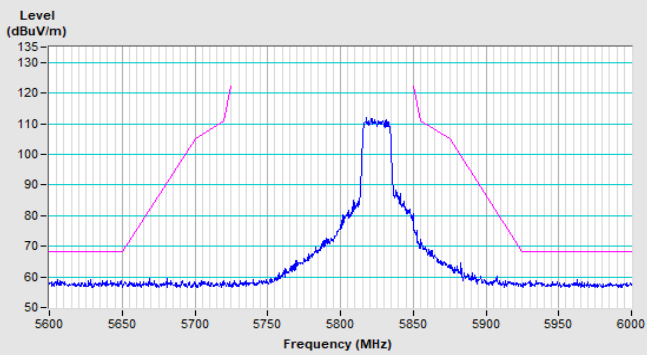


Horizontal (Peak)

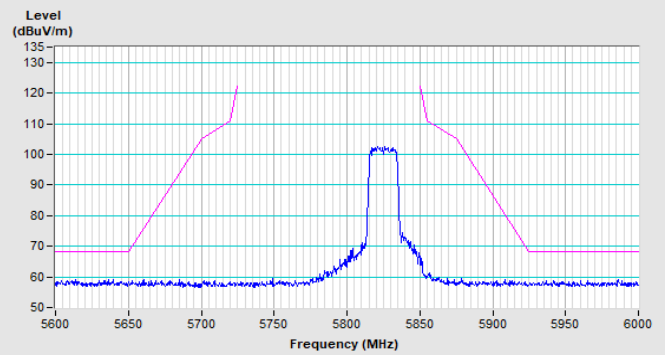


Vertical (Peak)

802.11ax (HE20) Channel 165



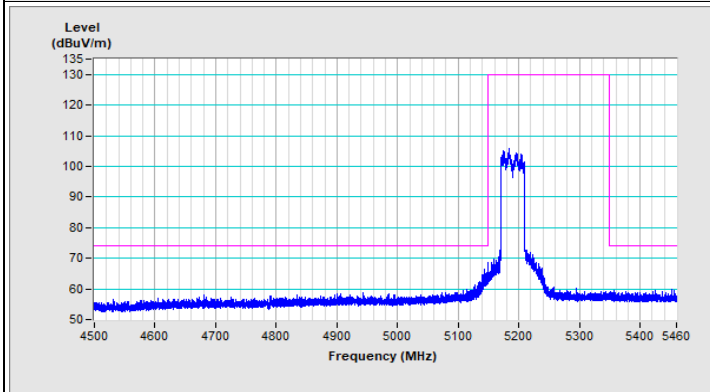
Horizontal (Peak)



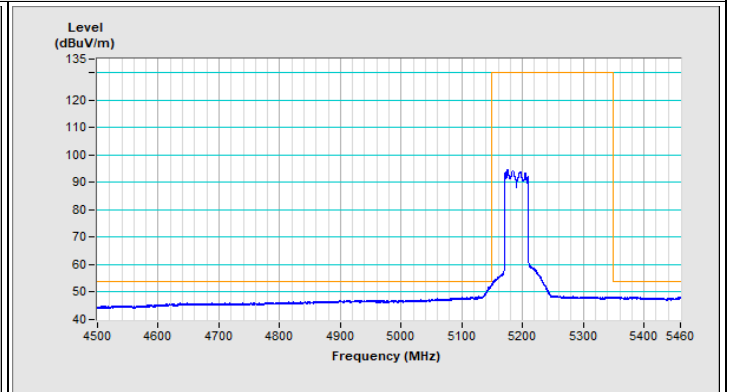
Vertical (Peak)

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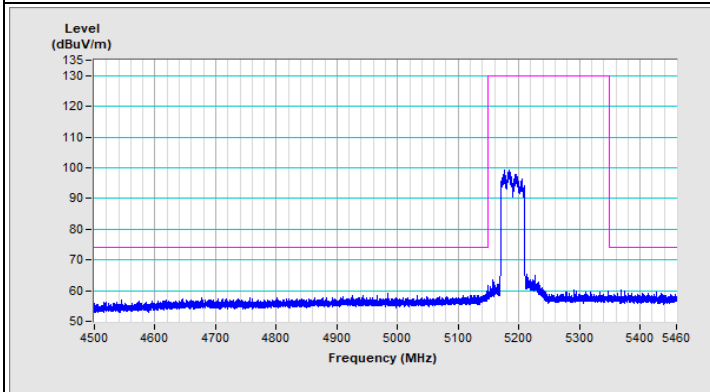
802.11ax (HE40) Channel 38



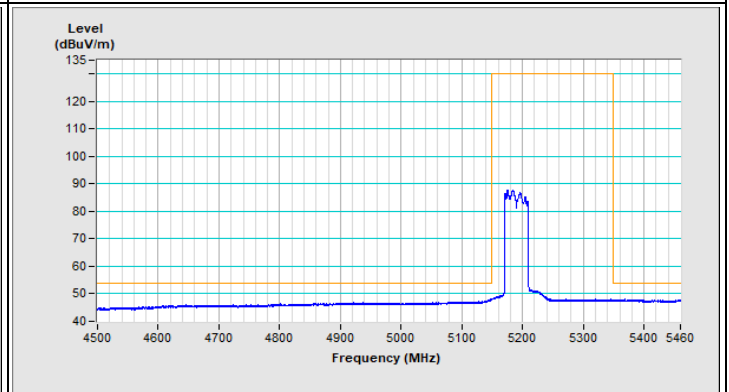
Horizontal (Peak)



Horizontal (Average)

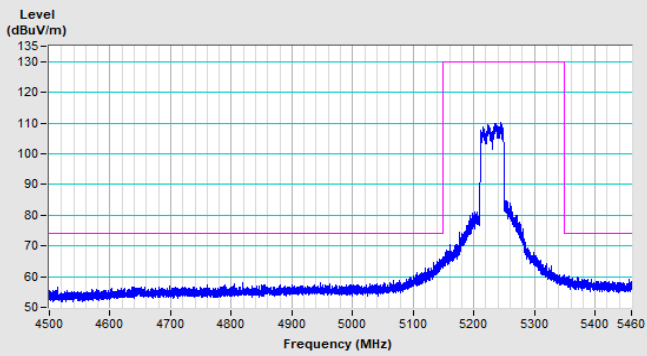


Vertical (Peak)

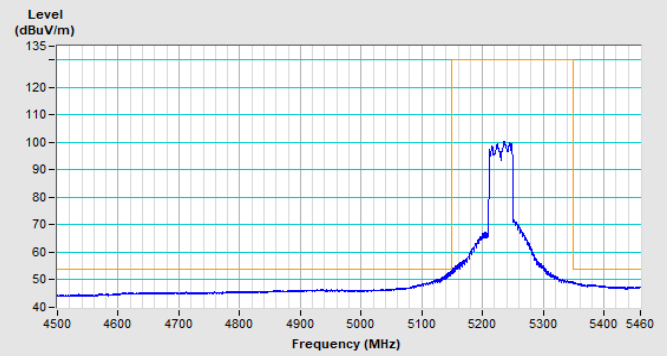


Vertical (Average)

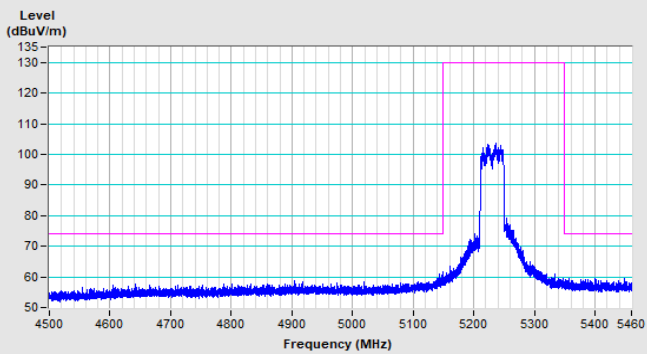
802.11ax (HE40) Channel 46



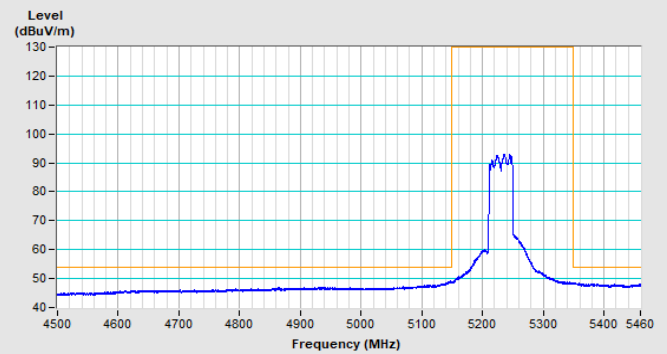
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

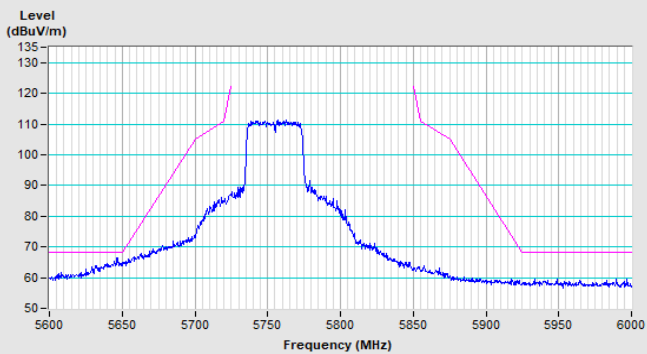
Frequency Range

5.6 GHz ~ 6 GHz

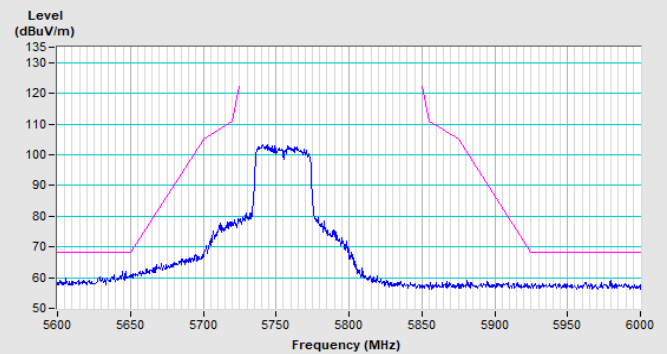
Detector Function &
Bandwidth

PK: RB=1 MHz, VB=3 MHz, DET=Peak

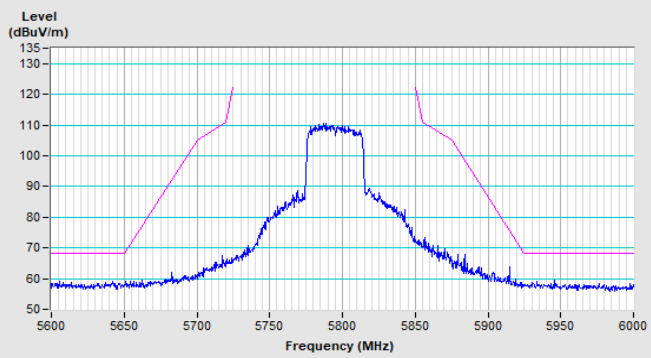
802.11ax (HE40) Channel 151



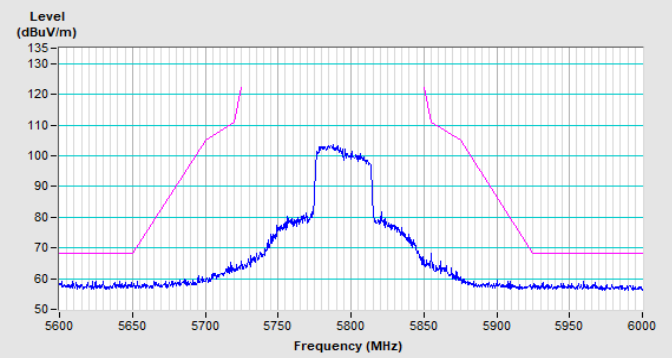
Horizontal (Peak)



Vertical (Peak)

802.11ax (HE40) Channel 159

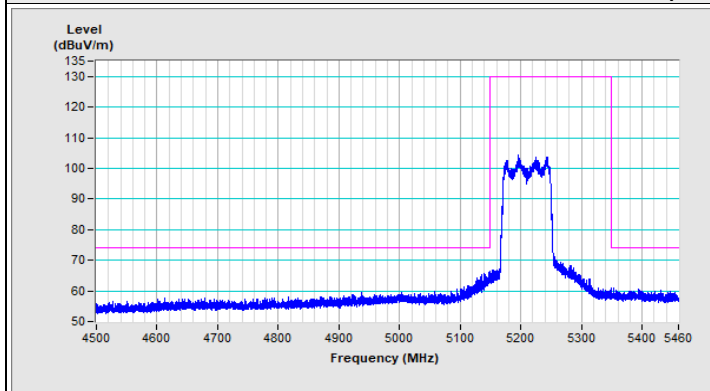
Horizontal (Peak)



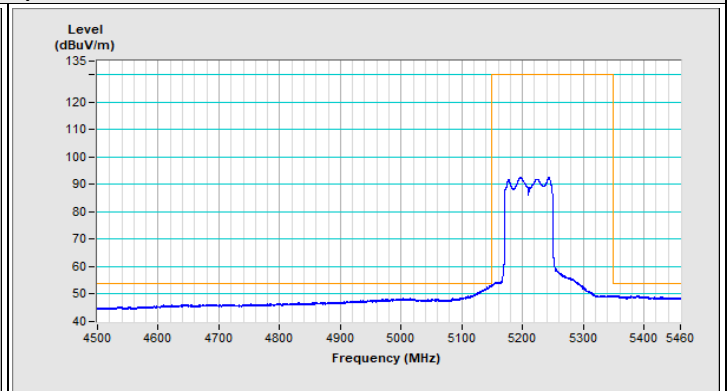
Vertical (Peak)

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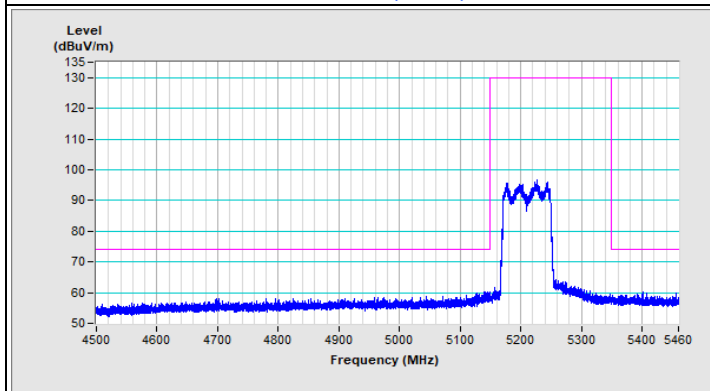
802.11ax (HE80) Channel 42



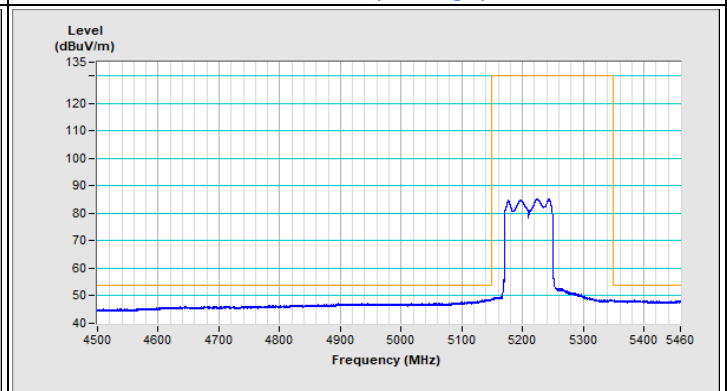
Horizontal (Peak)



Horizontal (Average)



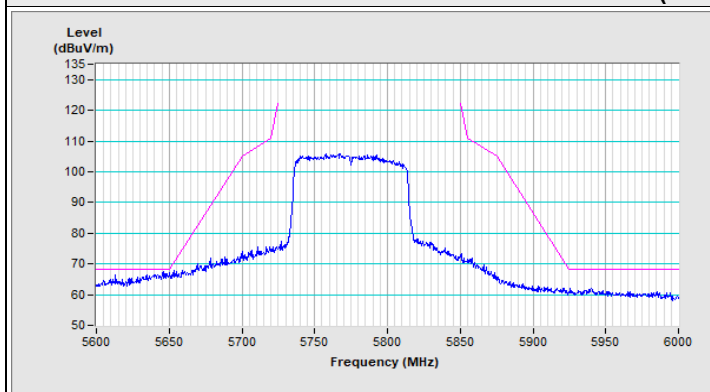
Vertical (Peak)



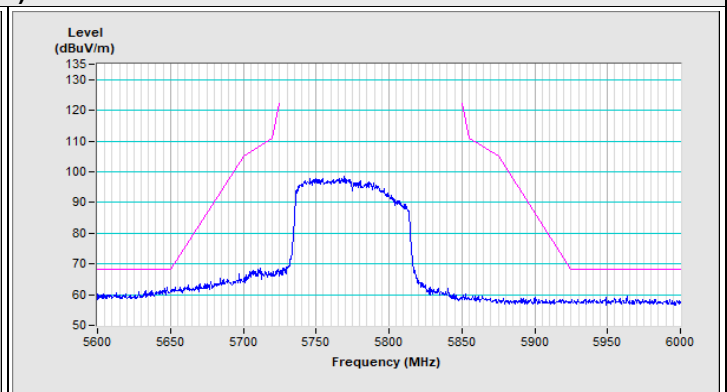
Vertical (Average)

Frequency Range	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



Horizontal (Peak)

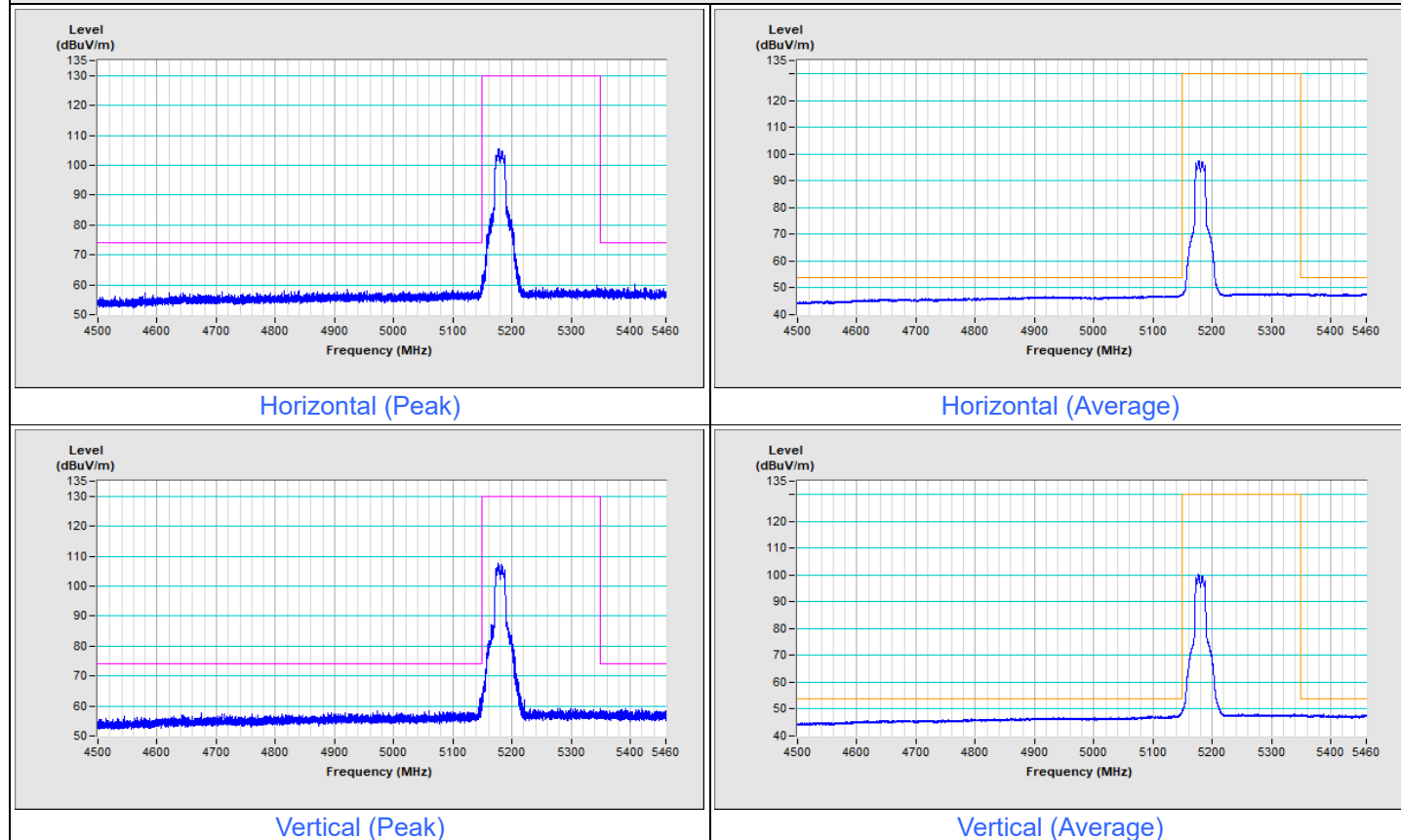


Vertical (Peak)

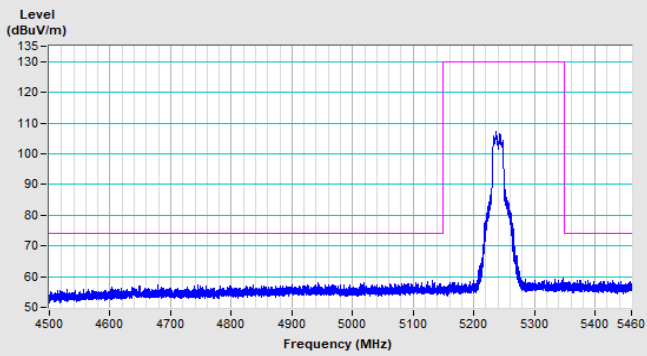
Plot of Band Edge_Mode B

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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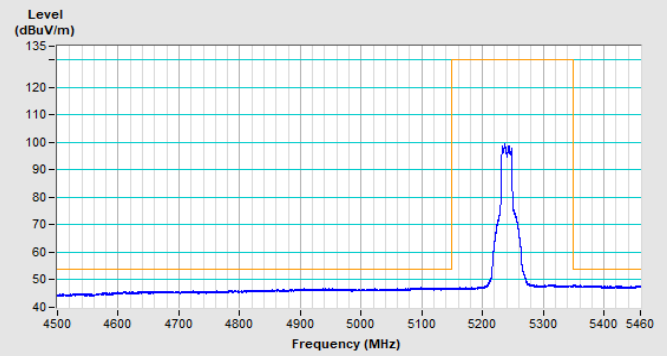
802.11a Channel 36



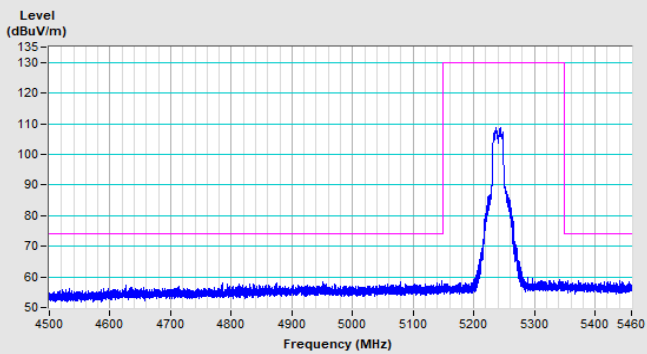
802.11a Channel 48



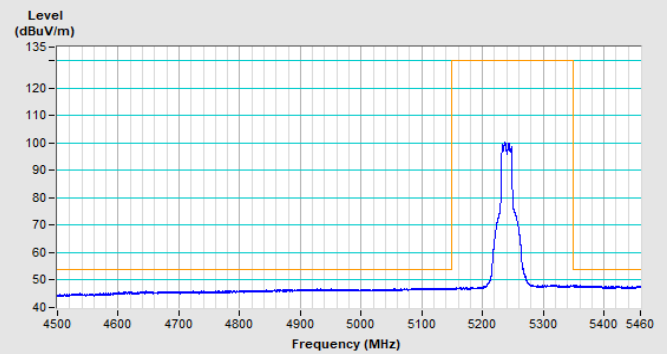
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

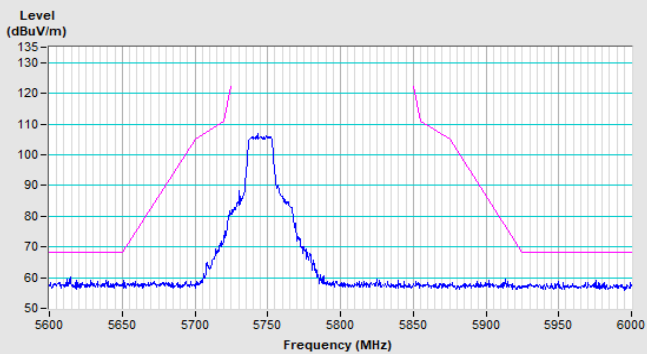
Frequency Range

5.6 GHz ~ 6 GHz

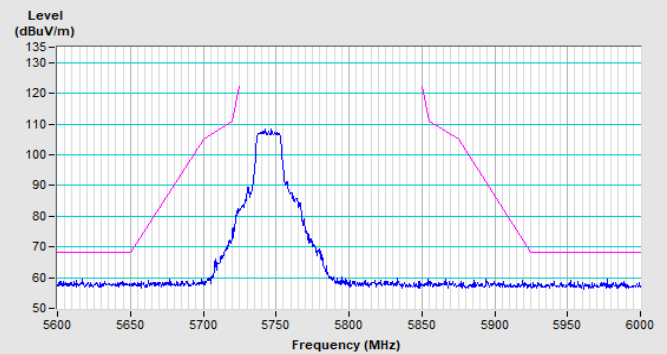
Detector Function &
Bandwidth

PK: RB=1 MHz, VB=3 MHz, DET=Peak

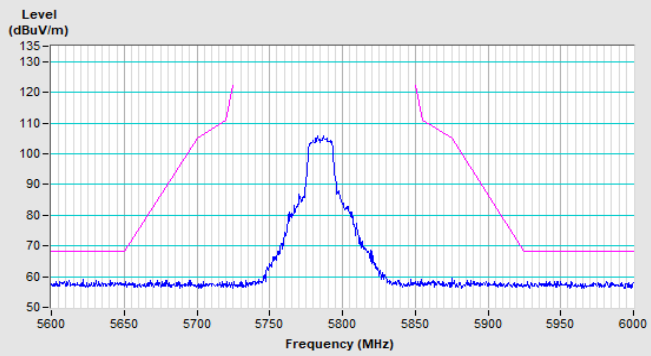
802.11a Channel 149



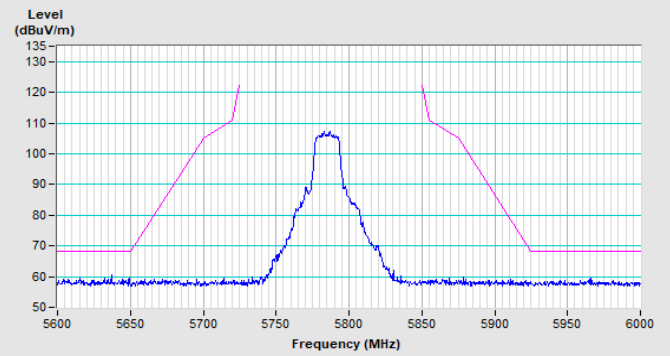
Horizontal (Peak)



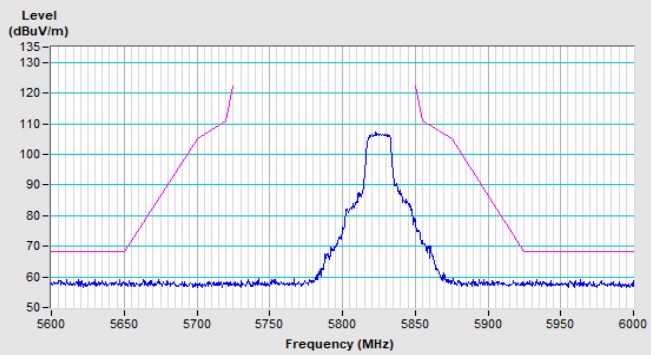
Vertical (Peak)

802.11a Channel 157

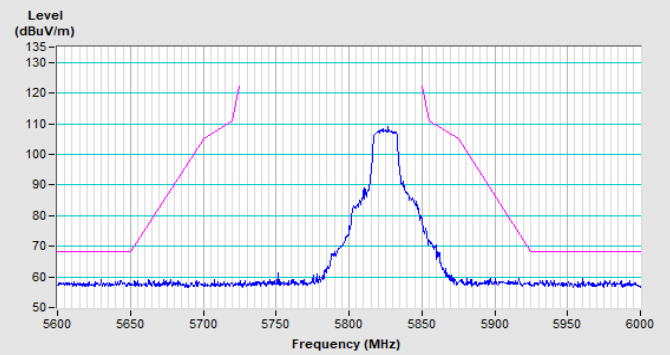
Horizontal (Peak)



Vertical (Peak)

802.11a Channel 165

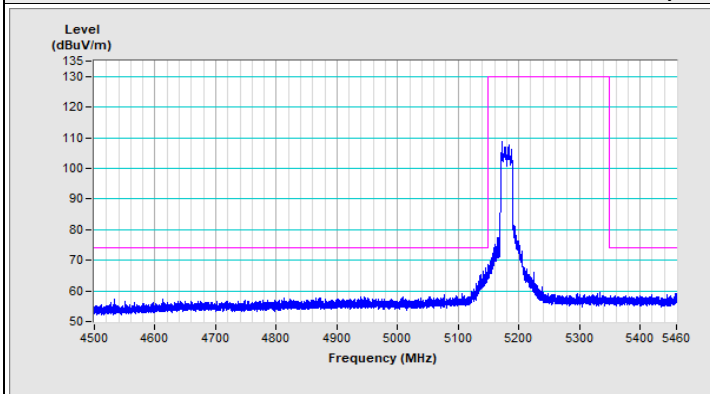
Horizontal (Peak)



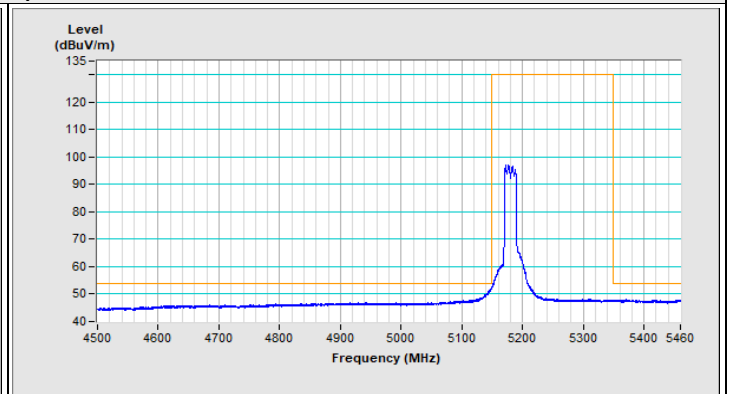
Vertical (Peak)

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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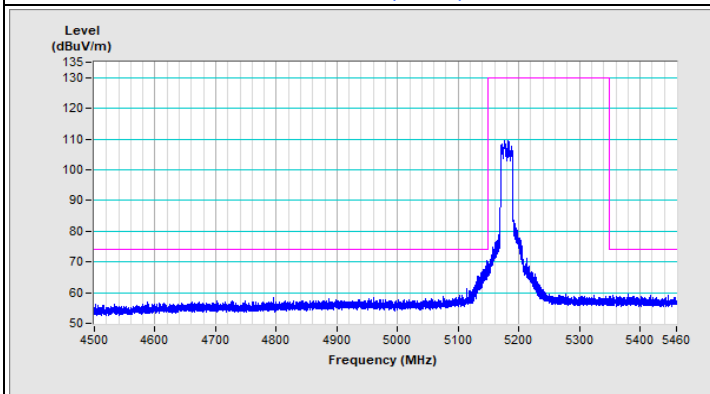
802.11ax (HE20) Channel 36



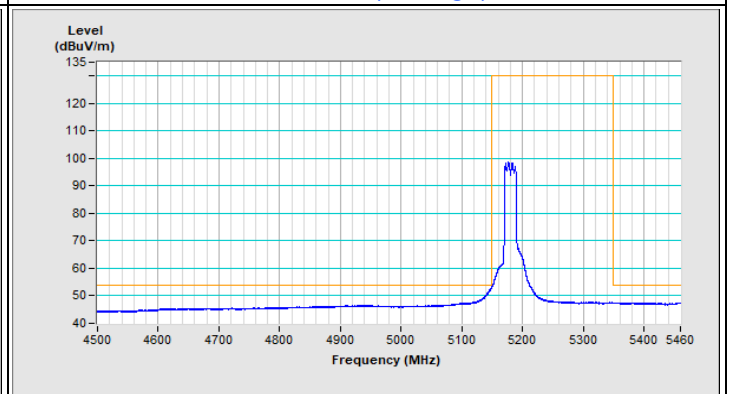
Horizontal (Peak)



Horizontal (Average)

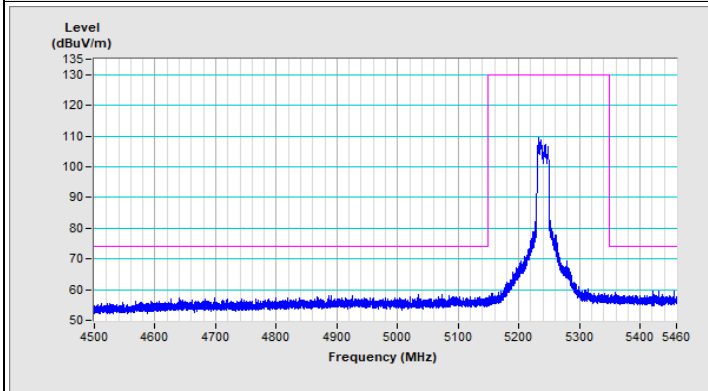


Vertical (Peak)

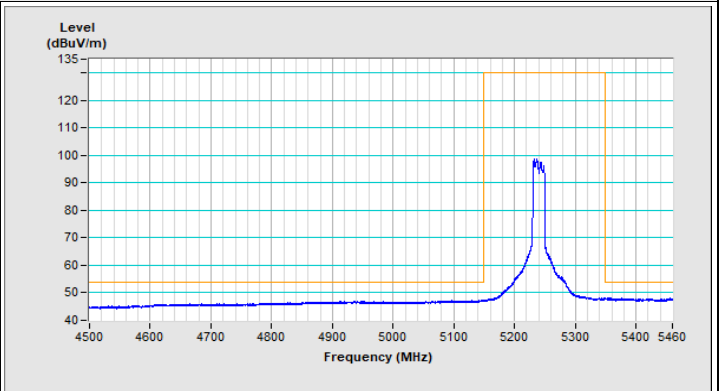


Vertical (Average)

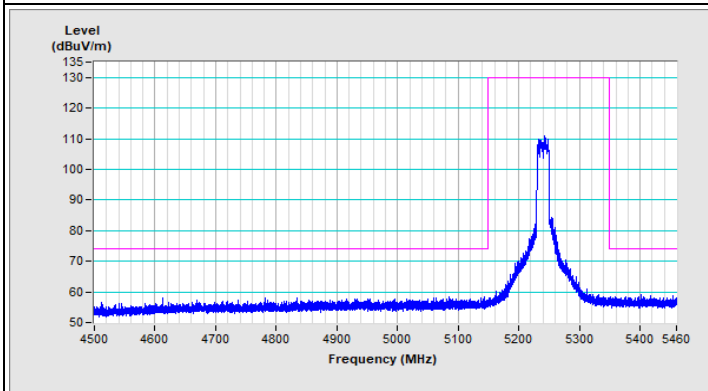
802.11ax (HE20) Channel 48



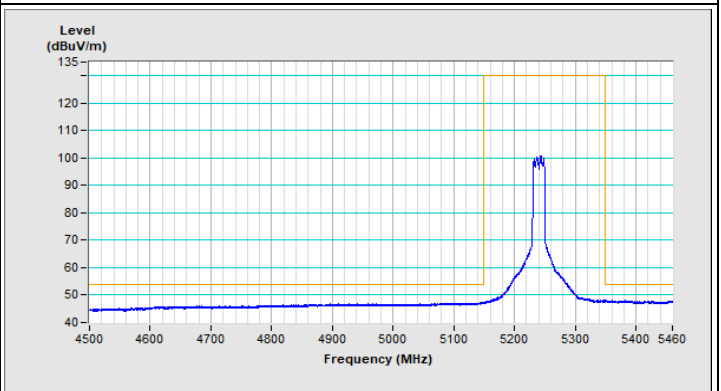
Horizontal (Peak)



Horizontal (Average)



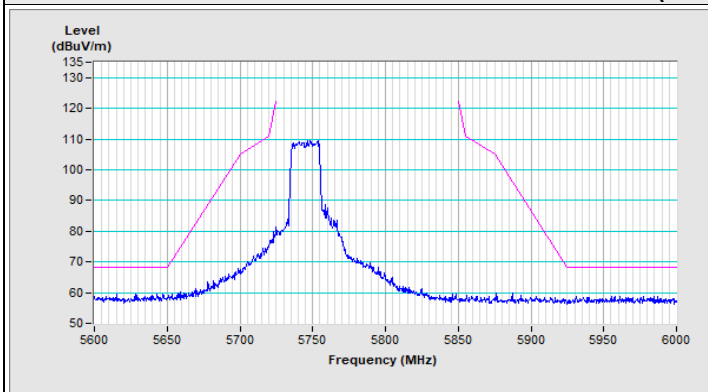
Vertical (Peak)



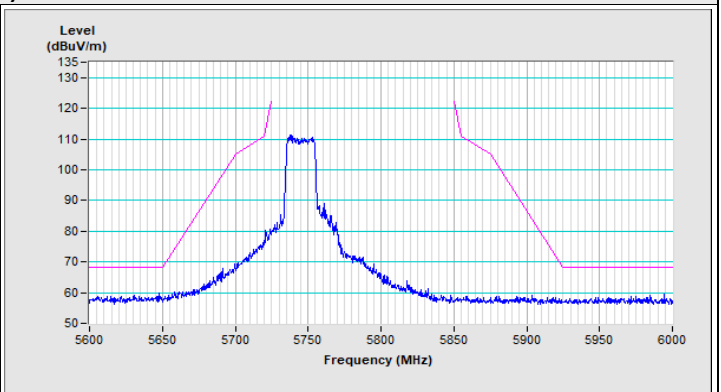
Vertical (Average)

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

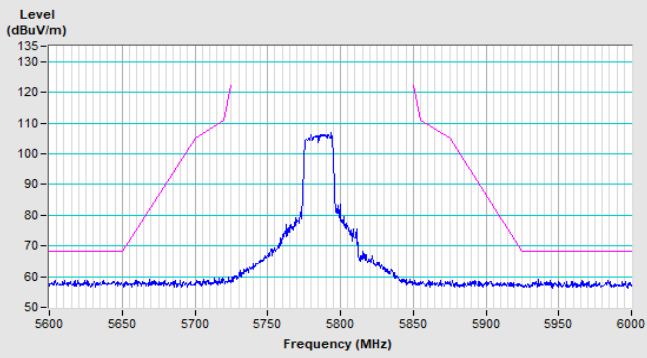


Horizontal (Peak)

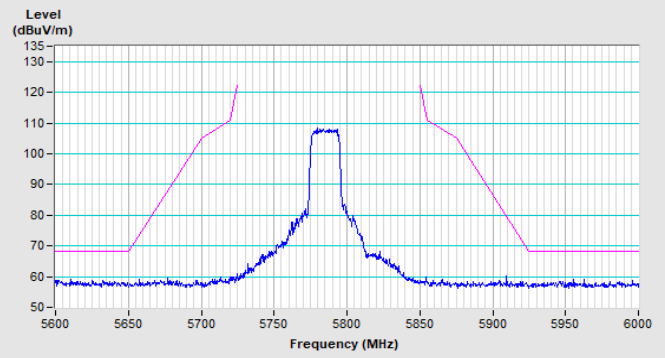


Vertical (Peak)

802.11ax (HE20) Channel 157

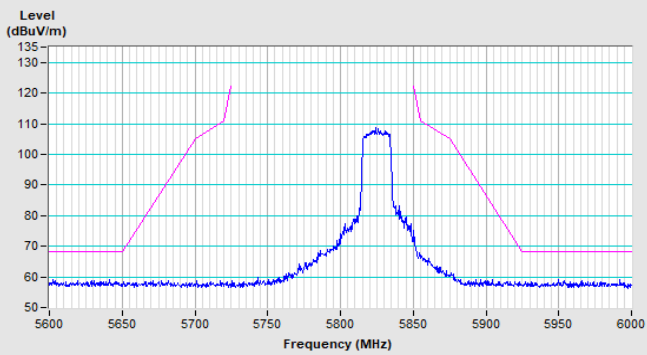


Horizontal (Peak)

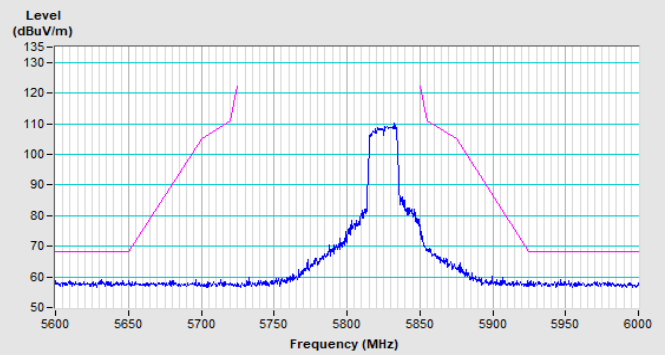


Vertical (Peak)

802.11ax (HE20) Channel 165



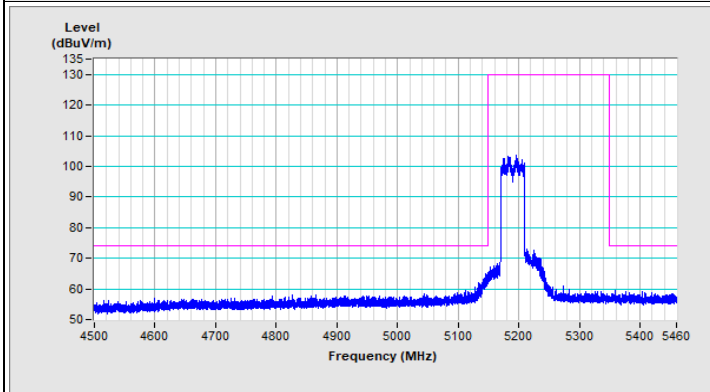
Horizontal (Peak)



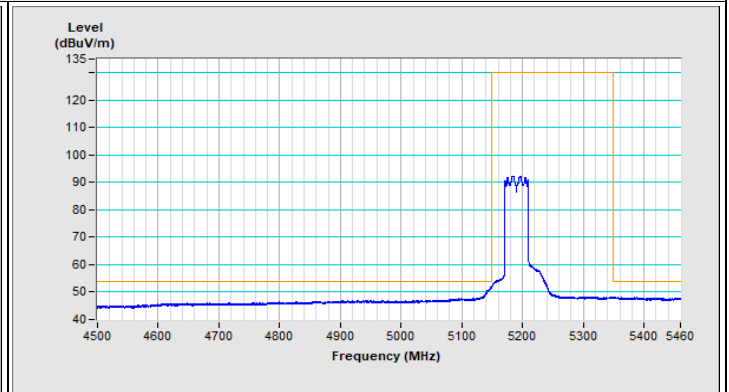
Vertical (Peak)

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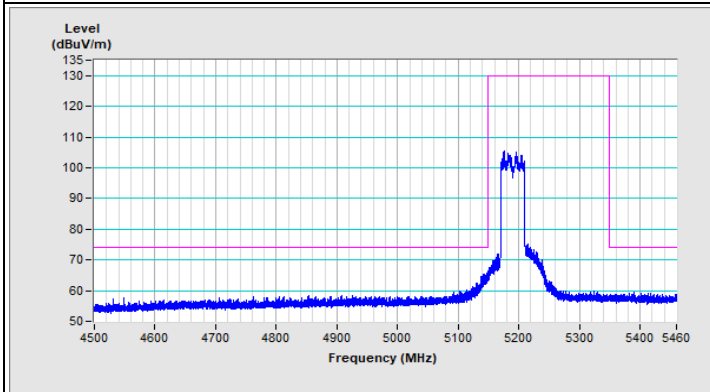
802.11ax (HE40) Channel 38



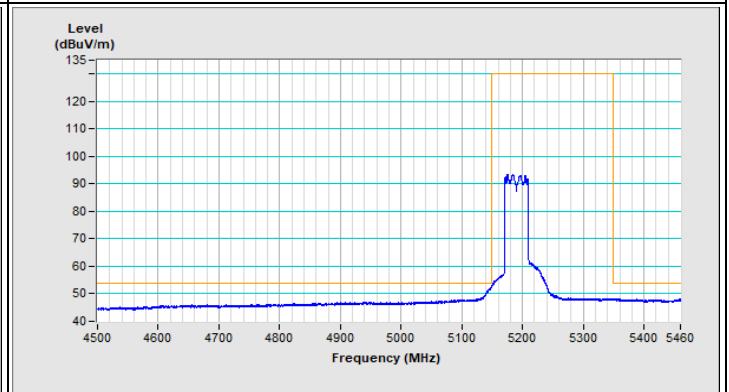
Horizontal (Peak)



Horizontal (Average)

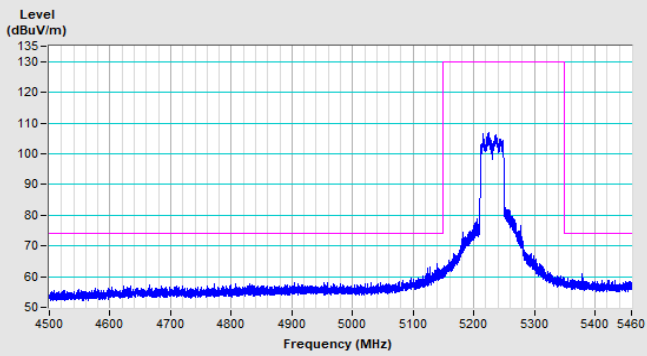


Vertical (Peak)

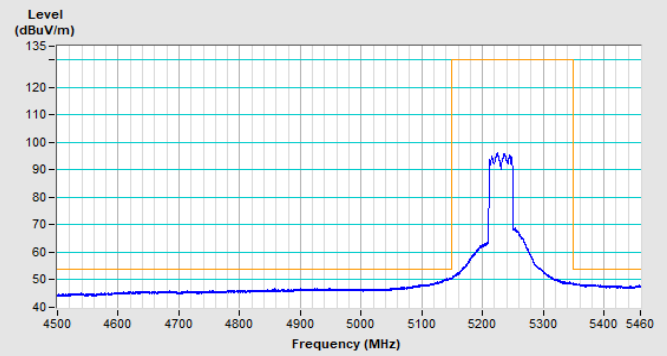


Vertical (Average)

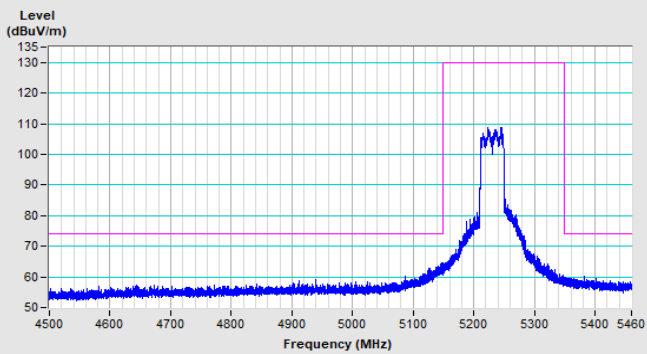
802.11ax (HE40) Channel 46



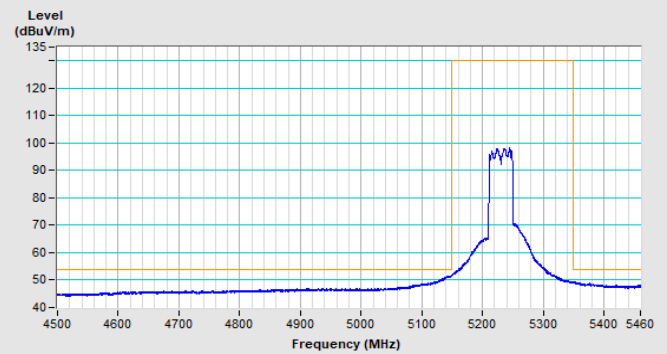
Horizontal (Peak)



Horizontal (Average)



Vertical (Peak)



Vertical (Average)

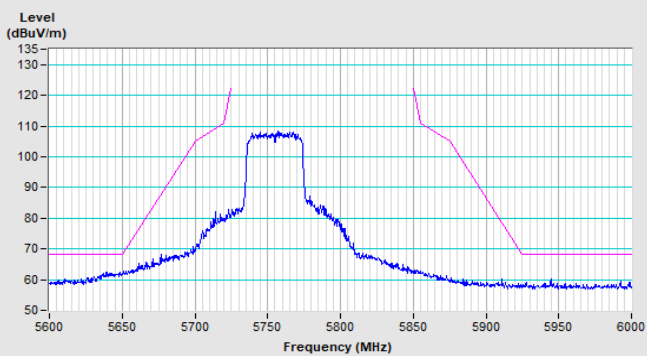
Frequency Range

5.6 GHz ~ 6 GHz

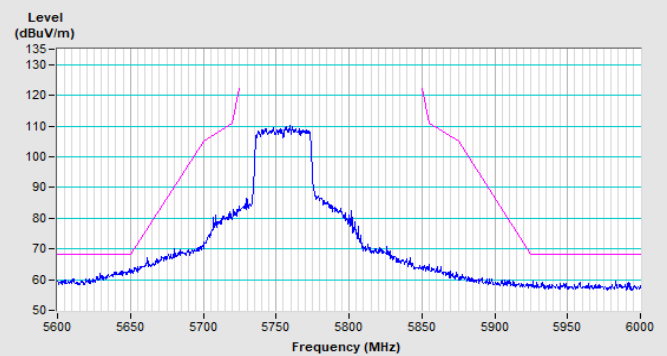
Detector Function &
Bandwidth

PK: RB=1 MHz, VB=3 MHz, DET=Peak

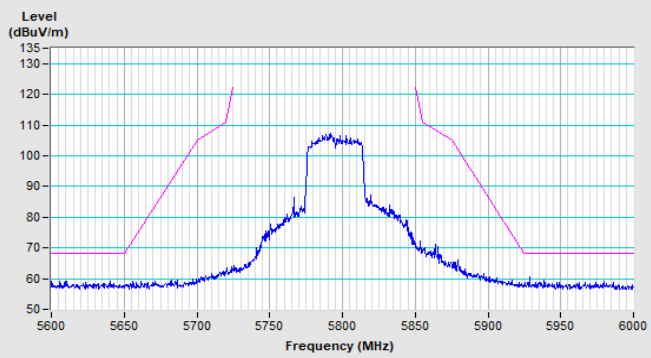
802.11ax (HE40) Channel 151



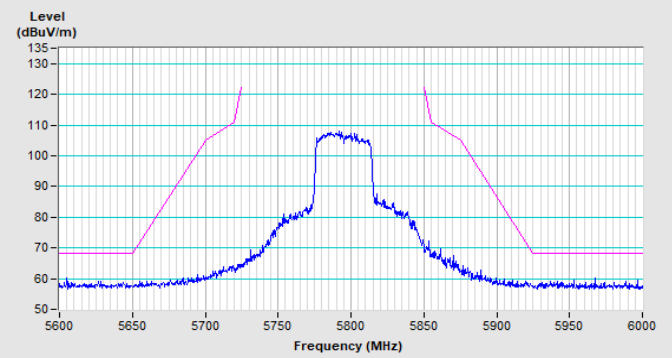
Horizontal (Peak)



Vertical (Peak)

802.11ax (HE40) Channel 159

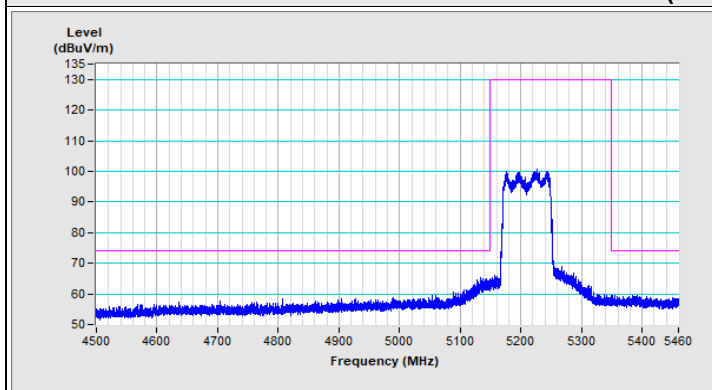
Horizontal (Peak)



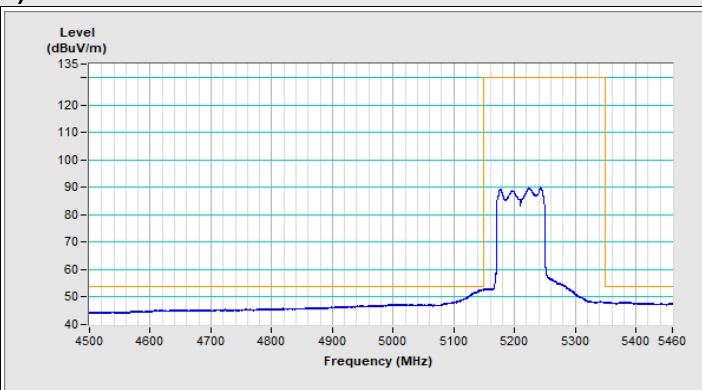
Vertical (Peak)

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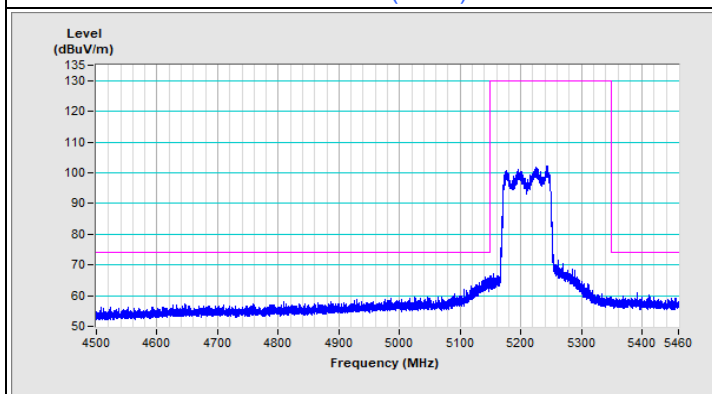
802.11ax (HE80) Channel 42



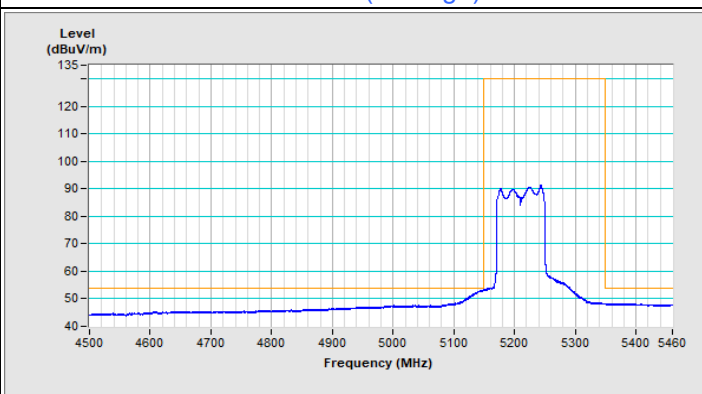
Horizontal (Peak)



Horizontal (Average)



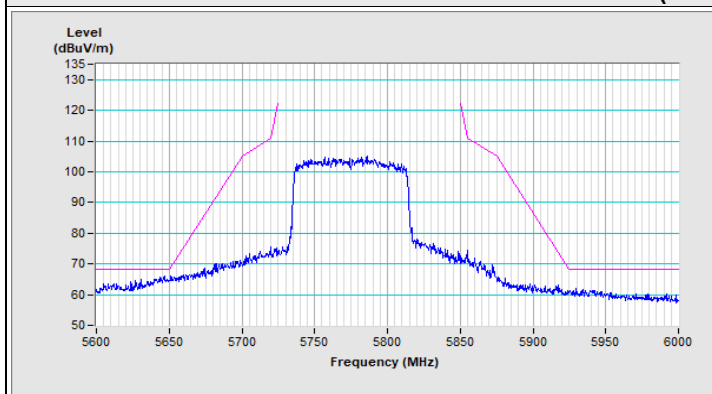
Vertical (Peak)



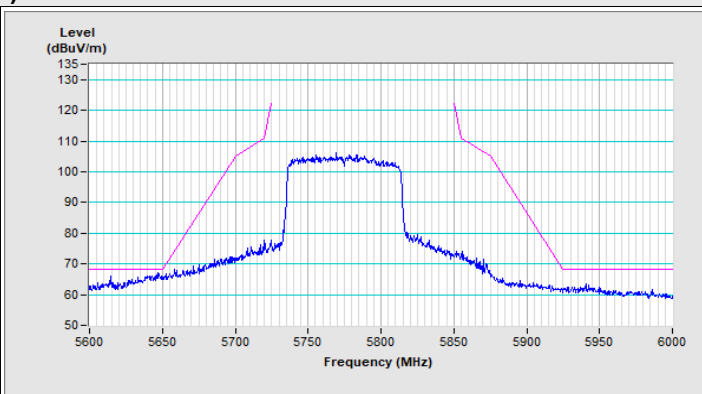
Vertical (Average)

Frequency Range	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



Horizontal (Peak)



Vertical (Peak)

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

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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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