

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBCKS-WTW-P26030459-1

FCC ID: 2ABLK-GS3037E

Product: WiFi7 AP

Brand: GigaSpire

Model No.: 7u6.2 GS3037E

Series Model: 7u6m.2 GS2039

Received Date: 2025/11/28

Test Date: 2026/3/27 ~ 2026/7/6

Issued Date: 2026/9/1

Applicant: Calix Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

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FCC Registration / 723255 / TW2022

Designation Number:

Approved by: _____

May Chen / Manager

, Date: _____

2026/9/1

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Prepared by: Vito Lung / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBCKS-WTW-P26030459-1	Original release.	2026/9/1

1 Certificate

Product: WiFi7 AP

Brand: GigaSpire

Test Model: 7u6.2 GS3037E

Series Model: 7u6m.2 GS2039

Sample Status: Engineering sample

Applicant: Calix Inc.

Test Date: 2026/3/27 ~ 2026/7/6

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

Measurement procedure: ANSI C63.10-2020
KDB 789033 D02 General UNII Test Procedure New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(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 -14.68 dB at 0.46641 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -5.2 dB at 50.32 MHz
15.407(b) (1/10) 15.407(b) (4(i)/10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.3 dB at 5150.00 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

Notes:

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

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
RF Output Power	-	1.1 dB
Power Spectral Density	-	1.3 dB
6 dB Bandwidth	-	1050.00 Hz
Occupied Bandwidth	-	1050.00 Hz
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.5 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 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	WiFi7 AP
Brand	GigaSpire
Test Model	7u6.2 GS3037E
Series Model	7u6m.2 GS2039
Status of EUT	Engineering sample
Power Supply Rating	12 Vdc from power adapter
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode 1024QAM for OFDMA in 11ax mode 4096QAM for OFDMA in 11be mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 866.7 Mbps 802.11ax: up to 1201.0 Mbps 802.11be: up to 1441.2 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), 802.11be (EHT20): 9 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40), 802.11be (EHT40): 4 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80): 2
Output Power	5.18 GHz ~ 5.24 GHz: 677.695 mW (28.31 dBm) 5.745 GHz ~ 5.825 GHz: 669.16 mW (28.26 dBm)
EUT Category	Indoor Access Point

Note:

1. All models are listed as below.

Brand	Product	Model	Software Version	Difference
GigaSpire	WiFi7 AP	7u6.2 GS3037E	Calix FW	The same hardware with difference NVRAM setting.
		7u6m.2 GM2039	26.3.0.0	

2. The EUT uses following accessories.

Item	Brand	Model	Specification
AC Adapter 1	AMIGO	AMS317-1202500FU	AC Input: 100-240V 50/60Hz 1.0A DC Output: 12V=2.5A DC Output Cable: 1.5 m
AC Adapter 2	MOSO	MSS-V2500WR120-030E1-US	AC Input: 100-240V~50/60Hz 1.0A max DC Output: 12.0V=2.5A DC Output Cable: 1.5 m

3. There are WLAN (2.4 GHz), WLAN (5 GHz) and WLAN (6 GHz) technology used for the EUT.

4. Simultaneously transmission combination.

Combination	Technology		
1	WLAN (2.4 GHz)	WLAN (5 GHz)	WLAN (6 GHz)

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

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

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna NO.	RF Chain NO.	Brand	Model	Antenna Net Gain(dBi)	Frequency range (GHz)	Antenna Type	Connector Type
2G 0	0	WNC	48XPAB0R	2.73	2.40	PCB	ipex(MHF)
				3.31	2.45		
				2.82	2.50		
2G 1	1	WNC	48XPAB0S	3.18	2.40	PCB	ipex(MHF)
				3.09	2.45		
				2.48	2.50		
5G 0	0	WNC	48XPAB09	5.18	5.15~5.25	PCB	ipex(MHF)
				5.17	5.25~5.35		
				5.17	5.47~5.725		
				4.69	5.725~5.85		
5G 1	1	WNC	48XPAB09	3.42	5.15~5.25	PCB	ipex(MHF)
				3.42	5.25~5.35		
				3.70	5.47~5.725		
				3.60	5.725~5.85		
6G 0	0	WNC	48XPAB0T	4.78	5.925~6.425	PCB	ipex(MHF)
				3.79	6.425~6.525		
				3.22	6.525~6.875		
				4.47	6.875~7.125		
6G 1	1	WNC	48XPAB0U	3.06	5.925~6.425	PCB	ipex(MHF)
				2.95	6.425~6.525		
				2.79	6.525~6.875		
				3.67	6.875~7.125		

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

2. The directional antenna gain, please refer to the following table:

Frequency Range (GHz)	Directional Antenna Gain (dBi)
2.4 ~ 2.4835	5.35
5.15 ~ 5.25	5.20
5.25 ~ 5.35	5.37
5.47 ~ 5.725	5.94
5.725 ~ 5.85	5.42
5.925 ~ 6.425	4.27
6.425 ~ 6.525	4.13
6.525 ~ 6.875	4.31
6.875 ~ 7.125	5.03

3. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
802.11be (EHT20)	2TX	2RX
802.11be (EHT40)	2TX	2RX
802.11be (EHT80)	2TX	2RX

Note:

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

3.3 Channel List

FOR 5180 ~ 5240 MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20), 802.11be (EHT20):

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), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80):

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), 802.11be (EHT20):

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), 802.11be (EHT40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80), 802.11be (EHT80):

Channel	Frequency
155	5775 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1. The AC Adapter has the following models: MSS-V2500WR120-030E1-US / AMS317-1202500FU. Pre-scan these models of AC Adapters and find the worst case as a representative test condition. 2. EUT can be used in the following ways: Lying / Standing. Pre-scan these ways and find the worst case as a representative test condition. 3. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
Worst Case:	1. AC Adapter Worst Condition: AMS317-1202500FU 2. Lying / Standing Worst Condition: ➤ Unwanted Emission for Below 1GHz: Lying type. ➤ Unwanted Emission for Above 1GHz: Standing type.

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

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	802.11a	CDD	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
	802.11be (EHT20)	CDD & Beamforming	36, 40, 48, 149, 157, 165	BPSK	MCS0
	802.11be (EHT40)	CDD & Beamforming	38, 46, 151, 159	BPSK	MCS0
	802.11be (EHT80)	CDD & Beamforming	42, 155	BPSK	MCS0
Power Spectral Density	802.11a	CDD	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
	802.11be (EHT20)	CDD	36, 40, 48, 149, 157, 165	BPSK	MCS0
	802.11be (EHT40)	CDD	38, 46, 151, 159	BPSK	MCS0
	802.11be (EHT80)	CDD	42, 155	BPSK	MCS0
6 dB Bandwidth	802.11a	CDD	149, 157, 165	BPSK	6Mb/s
	802.11be (EHT20)	CDD	149, 157, 165	BPSK	MCS0
	802.11be (EHT40)	CDD	151, 159	BPSK	MCS0
	802.11be (EHT80)	CDD	155	BPSK	MCS0
Occupied Bandwidth	802.11a	CDD	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
	802.11be (EHT20)	CDD	36, 40, 48, 149, 157, 165	BPSK	MCS0
	802.11be (EHT40)	CDD	38, 46, 151, 159	BPSK	MCS0
	802.11be (EHT80)	CDD	42, 155	BPSK	MCS0
AC Power Conducted Emissions	802.11a	CDD	48	BPSK	6Mb/s
Unwanted Emissions below 1 GHz	802.11a	CDD	48	BPSK	6Mb/s

Test Item	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Unwanted Emissions above 1 GHz	802.11a	CDD	36, 40, 48, 149, 157, 165	BPSK	6Mb/s
	802.11be (EHT20)	CDD	36, 40, 48, 149, 157, 165	BPSK	MCS0
	802.11be (EHT40)	CDD	38, 46, 151, 159	BPSK	MCS0
	802.11be (EHT80)	CDD	42, 155	BPSK	MCS0

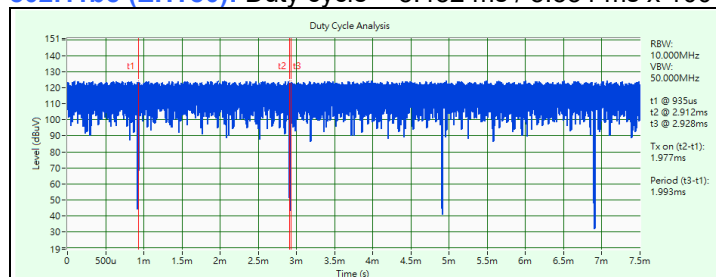
3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = 1.977 ms / 1.993 ms x 100% = 99.2%

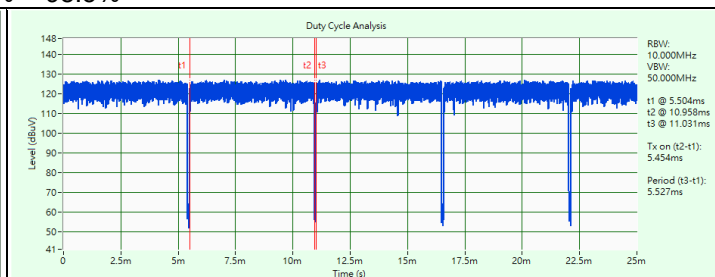
802.11be (EHT20): Duty cycle = 5.454 ms / 5.527 ms x 100% = 98.7%

802.11be (EHT40): Duty cycle = 5.453 ms / 5.509 ms x 100% = 99.0%

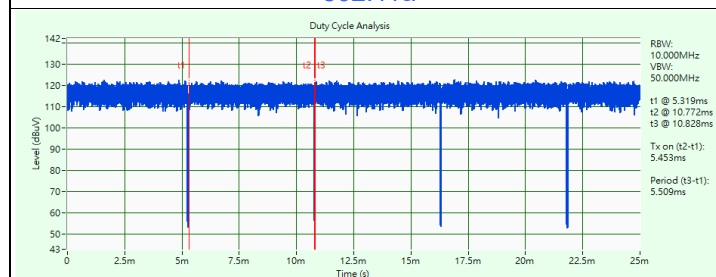
802.11be (EHT80): Duty cycle = 5.452 ms / 5.534 ms x 100% = 98.5%



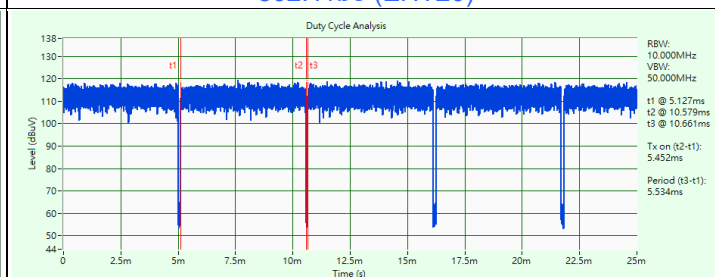
802.11a



802.11be (EHT20)



802.11be (EHT40)

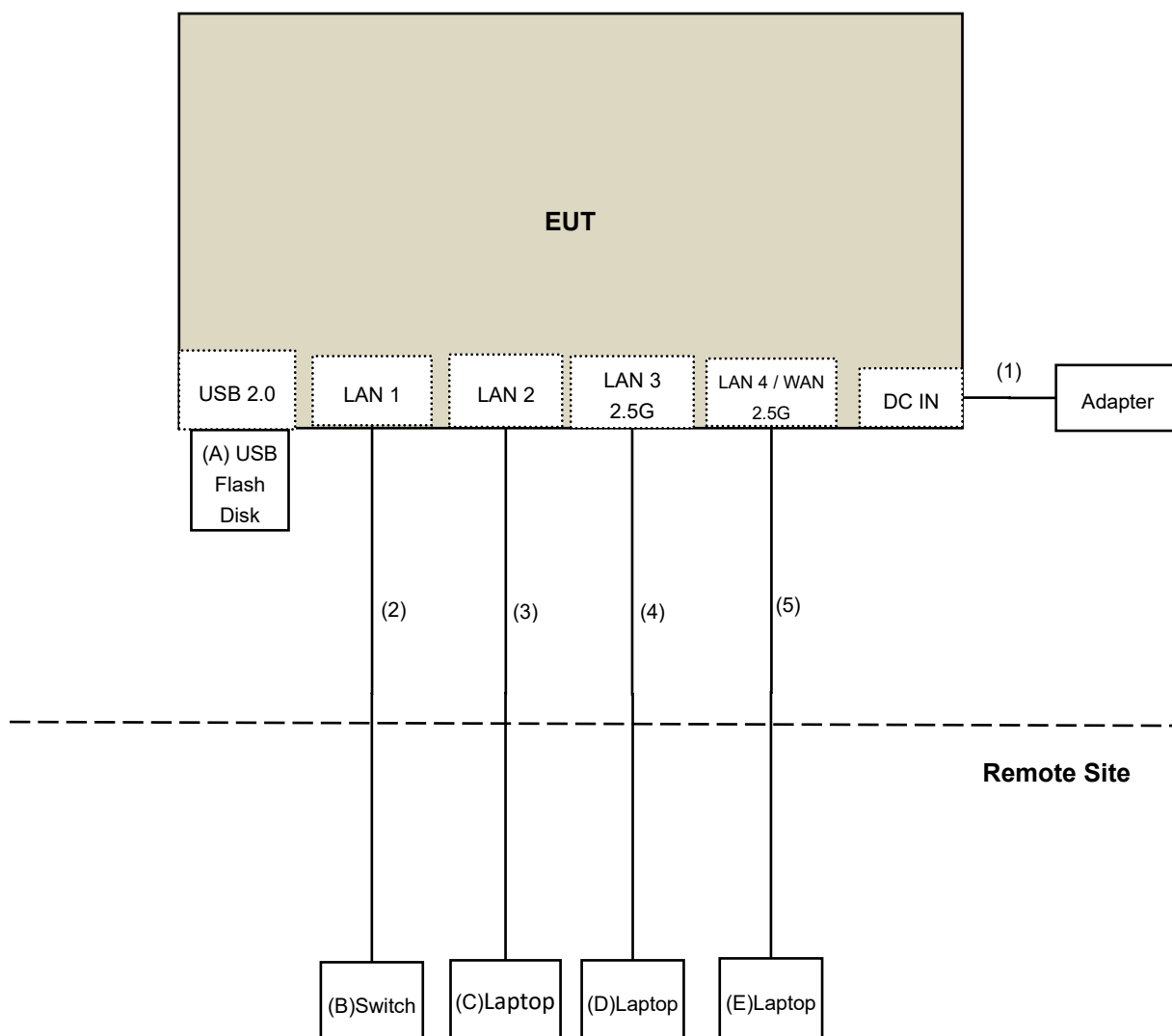


802.11be (EHT80)

3.6 Test Program Used and Operation Descriptions

Controlling software (QRCT V4.1_4.0.192.1) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	USB Flash Disk	SANDISK	SDDDC3-032G-I35NB	BM22065835SW	N/A	Provided by Lab
B	Switch	D-Link	DGS-1005D	DR8WC92000523	N/A	Provided by Lab
C	Laptop	Lenovo	L480	RF1PRC03	N/A	Provided by Lab
D	Laptop	DELL	E6230	H86M3X1	N/A	Provided by Lab
E	Laptop	DELL	E6230	1BCMLX1	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.5	No	0	Supplied by applicant
2	RJ-45 Cable	1	10	No	0	Provided by Lab
3	RJ-45 Cable	1	10	No	0	Provided by Lab
4	RJ-45 Cable	1	10	No	0	Provided by Lab
5	RJ-45 Cable	1	10	No	0	Provided by Lab

4 Test Instruments

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

4.1 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-20	00800A1K01A-20-02	2025/5/23 2026/5/21	2026/5/22 2027/5/20
Pulse Power Sensor Anritsu	MA2411B	1726434	2025/6/3 2026/6/17	2026/6/2 2027/6/16
RF Power Meter Anritsu	ML2495A	1529002	2025/6/3 2026/5/29	2026/6/2 2027/5/28

Notes:

1. The test was performed in HC - Oven room 2(Hsinchu).
2. Tested Date: 2026/4/2 ~ 2026/7/6

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Fixed Attenuator Woken	00800A1K01A-10	00800A1K01A-10-01	2025/5/23 2026/5/21	2026/5/22 2027/5/20
MXA Signal Analyzer Keysight	N9020B	MY60112408	2026/2/12	2027/2/11
Software	ADT_RF Test Software v8.5.6.4	N/A	N/A	N/A

Notes:

1. The test was performed in HC - Oven room 2(Hsinchu).
2. Tested Date: 2026/4/2 ~ 2026/6/25

4.3 6 dB Bandwidth

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

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 Telegartner	50 ohm	3	2025/10/29	2026/10/28
EMI Test Receiver R&S	ESCS 30	100375	2026/5/20	2027/5/19
Fixed Attenuator STI	STI02-2200-10	005	2026/2/9	2027/2/8
LISN R&S	ESH3-Z5	835239/001	2026/3/30	2027/3/29
		848773/004	2025/10/3	2026/10/2
RF Coaxial Cable JYEBAO	5D-FB	COCCAB-001	2026/2/9	2027/2/8
Software BVADT	BVADT_Conc_V7.4.1.0	N/A	N/A	N/A

Notes:

1. The test was performed in HC - Conduction 1(Hsinchu).
2. Tested Date: 2026/6/24

4.6 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Bi_Log Antenna Schwarzbeck	VULB 9168	9168-406	2025/9/17	2026/9/16
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Fixed Attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-03	2026/2/7	2027/2/6
Loop Antenna TESEQ	HLA 6121	63620	2025/10/20	2026/10/19
MXE EMI Receiver Agilent	N9038A	MY51210202	2025/7/30	2026/7/29
Preamplifier EMCI	EMC330N	980701	2026/2/7	2027/2/6
RF Coaxial Cable mTJ	100100-CFD400LW-200	CFD400-200	2026/2/7	2027/2/6
	100100-CFD400LW-400	CFD400-400	2026/2/7	2027/2/6
	100100-CFD400LW-800	CFD400-800	2026/2/7	2027/2/6
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in HC - 966 Chamber No. 4(Hsinchu).
2. Tested Date: 2026/6/24

4.7 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-783	2025/11/9	2026/11/8
	BBHA 9170	9170-739	2025/11/9	2026/11/8
MXA Signal Analyzer Keysight	N9020B	MY60112410	2026/3/26	2027/3/25
Preamplifier EMCI	EMC12630SE	980688	2025/8/7	2026/8/6
	EMC184045SE	980387	2025/8/7	2026/8/6
RF Coaxial Cable EMCI	EMC102-KM-KM-1200	160924	2026/1/15	2027/1/14
	EMC102-KM-KM-4000	200214	2026/1/15	2027/1/14
	EMC104-SM-SM-1200	160922	2026/1/10	2027/1/9
	EMC104-SM-SM-2000	180502	2026/1/10	2027/1/9
	EMC104-SM-SM-6000	210704	2025/10/22	2026/10/21
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in HC - 966 Chamber No. 4(Hsinchu).
2. Tested Date: 2026/3/27 ~ 2026/6/30

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)

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

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

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

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

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

5.2 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: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2 (dBμV/m) ^{*1} PK: 105.2 (dBμV/m) ^{*2} PK: 110.8 (dBμV/m) ^{*3} PK: 122.2 (dBμV/m) ^{*4}
^{*1} beyond 75 MHz or more above of the band edge. ^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. ^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. ^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

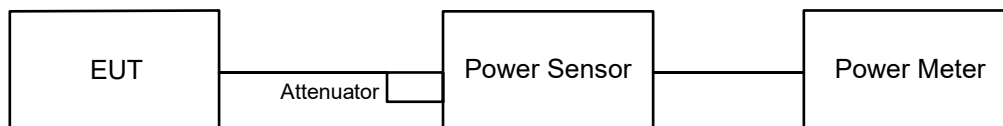
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup



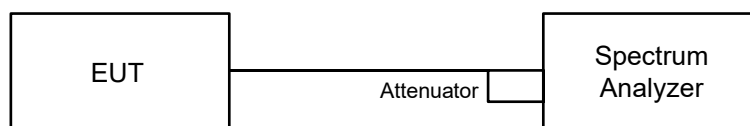
Note: The correction factor has already been compensated by the instrument.

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



Note: The correction factor has already been compensated by the instrument.

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

For specified measurement bandwidth 1 MHz:

Method SA-2

- Measure the duty cycle of the transmitter output signal.
- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS.
- Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add $10 \log (1/\text{duty cycle})$.

For specified measurement bandwidth 500 kHz:

Method SA-1

- Set span to encompass the entire 99% OBW 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 $BWCF = 10\log(500 \text{ kHz}/300 \text{ kHz})$.
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Record the max value.

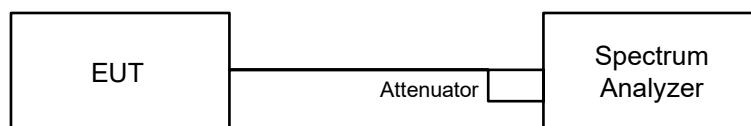
For specified measurement bandwidth 500 kHz:

Method SA-2

- Measure the duty cycle of the transmitter output signal.
- Set span to encompass the entire 99% OBW 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 $BWCF = 10\log(500 \text{ kHz}/300 \text{ kHz})$.
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add $10 \log (1/\text{duty cycle})$.

6.3 6 dB Bandwidth

6.3.1 Test Setup



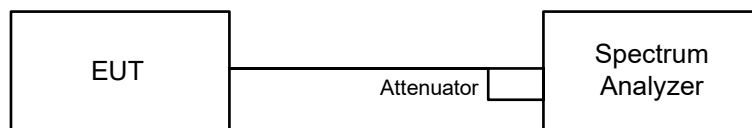
Note: The correction factor has already been compensated by the instrument.

6.3.2 Test Procedure

- Set RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max-hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- 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



Note: The correction factor has already been compensated by the instrument.

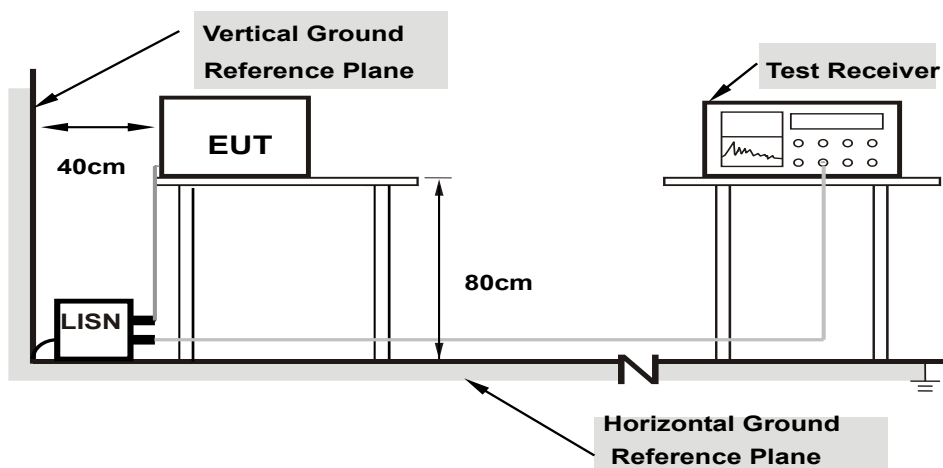
6.4.2 Test Procedure

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

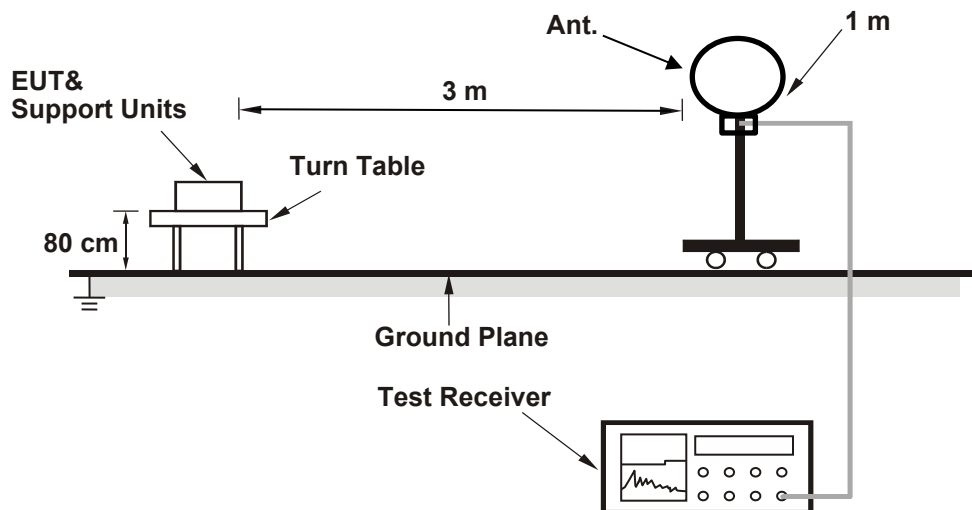
- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The 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.

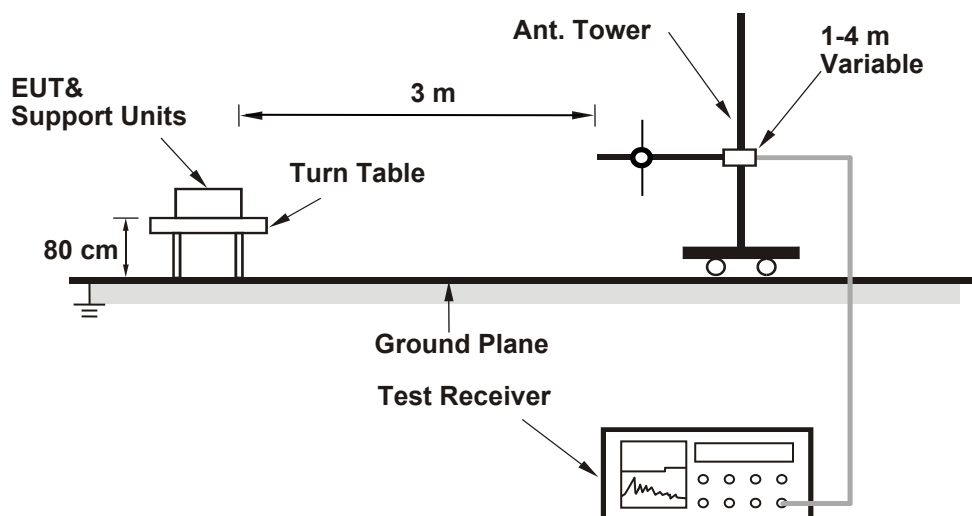
6.6 Unwanted Emissions below 1 GHz

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 (however, peak detector measurements may be used to determine compliance with QP requirements), 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

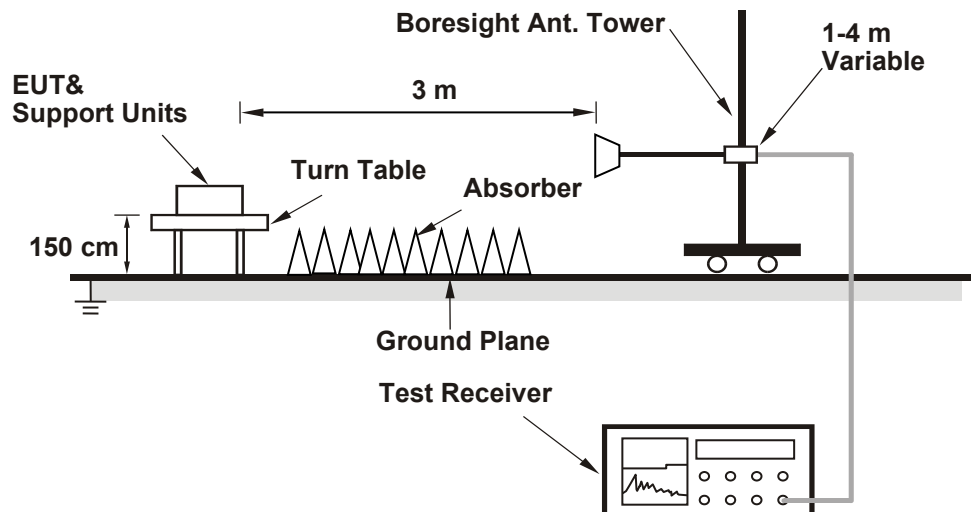
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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(QP) detect function, Average(AV) detect function, Peak(PK) detect function and specified bandwidth with maximum hold mode when the test frequencies less than or equal to 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 (however, peak detector measurements may be used to determine compliance with QP requirements).
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:	24°C, 58% RH	Tested By:	Jyunchun Lin
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802.11a CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	22.75	23.09	392.069	25.93	30	Pass
40	5200	22.75	23.09	392.069	25.93	30	Pass
48	5240	25.28	25.32	677.695	28.31	30	Pass
149	5745	25.03	25.26	654.157	28.16	30	Pass
157	5785	25.25	25.24	669.16	28.26	30	Pass
165	5825	24.68	24.40	569.188	27.55	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 5.18 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the maximum gain is 4.69 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	22.07	22.14	324.746	25.12	30	Pass
40	5200	22.87	23.11	398.287	26.00	30	Pass
48	5240	25.23	25.35	676.194	28.30	30	Pass
149	5745	25.02	25.14	644.275	28.09	30	Pass
157	5785	25.28	24.87	644.19	28.09	30	Pass
165	5825	24.70	24.36	568.019	27.54	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 5.18 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the maximum gain is 4.69 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT40) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	20.92	21.08	251.828	24.01	30	Pass
46	5230	23.67	23.84	474.912	26.77	30	Pass
151	5755	22.88	22.77	383.323	25.84	30	Pass
159	5795	24.33	24.01	522.787	27.18	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 5.18 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the maximum gain is 4.69 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT80) CDD

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	20.52	21.06	240.364	23.81	30	Pass
155	5775	21.73	21.89	303.462	24.82	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 5.18 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the maximum gain is 4.69 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT20) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
36	5180	21.83	21.74	301.685	24.80	30	Pass
40	5200	21.76	21.68	297.2	24.73	30	Pass
48	5240	21.82	21.73	300.991	24.79	30	Pass
149	5745	22.08	22.03	321.024	25.07	30	Pass
157	5785	22.19	22.09	327.385	25.15	30	Pass
165	5825	21.96	21.59	301.248	24.79	30	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-1, the directional gain is 5.2 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the directional gain is 5.42 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT40) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
38	5190	20.68	20.75	235.8	23.73	30	Pass
46	5230	22.12	22.17	327.746	25.16	30	Pass
151	5755	22.34	22.19	336.973	25.28	30	Pass
159	5795	22.23	22.18	332.305	25.22	30	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-1, the directional gain is 5.2 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the directional gain is 5.42 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.

802.11be (EHT80) Beamforming

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Test Result
		Chain 0	Chain 1				
42	5210	19.63	20.08	193.692	22.87	30	Pass
155	5775	21.19	21.22	263.957	24.22	30	Pass

Notes:

1. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
2. For U-NII-1, the directional gain is 5.2 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the directional gain is 5.42 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:	24°C, 58% RH	Tested By:	Jyunchun Lin
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802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	8.59	9.12	11.87	17	Pass
40	5200	9.64	10.03	12.85	17	Pass
48	5240	12.15	12.32	15.25	17	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.2 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
36	5180	7.56	8.02	10.81	17	Pass
40	5200	8.16	9.57	11.93	17	Pass
48	5240	10.63	11.64	14.17	17	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.2 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
38	5190	4.94	4.78	7.87	17	Pass
46	5230	7.78	7.47	10.64	17	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.2 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1			
42	5210	2.18	1.69	4.95	17	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-1, the directional gain is 5.2 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
149	5745	4.89	5.21	8.06	10.28	30	Pass
157	5785	5.34	5.70	8.53	10.75	30	Pass
165	5825	5.17	4.73	7.97	10.19	30	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 5.42 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
149	5745	4.35	4.49	7.43	9.65	30	Pass
157	5785	4.62	4.93	7.79	10.01	30	Pass
165	5825	4.37	3.80	7.1	9.32	30	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 5.42 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
151	5755	0.63	-0.96	2.92	5.14	30	Pass
159	5795	2.47	1.24	4.91	7.13	30	Pass

Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 5.42 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

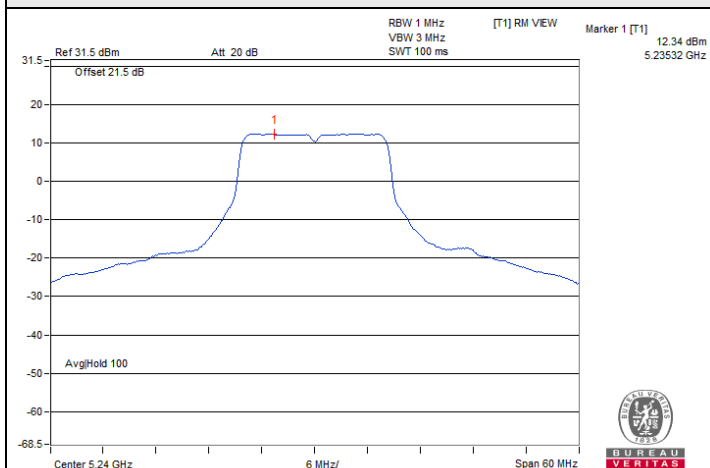
802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1				
155	5775	-3.25	-4.32	-0.74	1.48	30	Pass

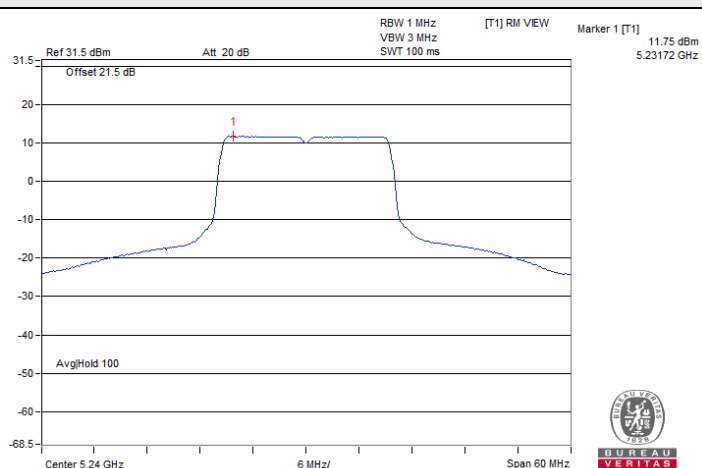
Notes:

1. Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
3. For U-NII-3, the directional gain is 5.42 dBi $\leq$ 6 dBi, so the power density limit shall not be reduced.

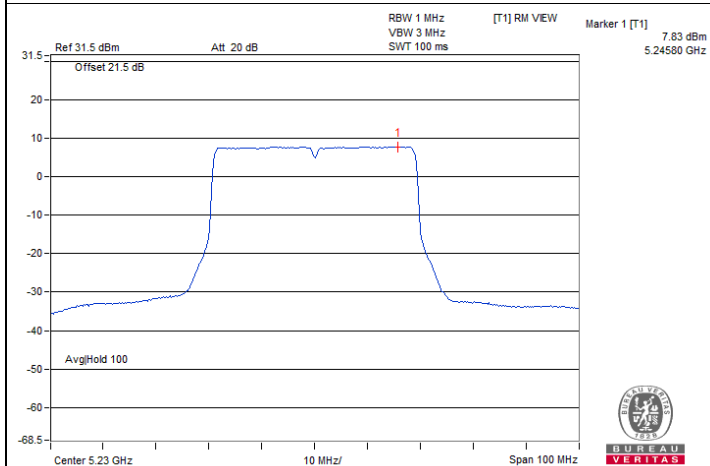
Spectrum Plot of Maximum Value



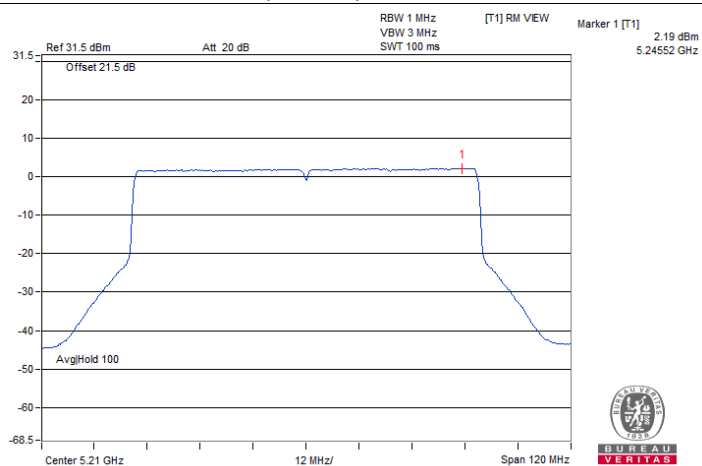
802.11a / Chain 1: CH 48



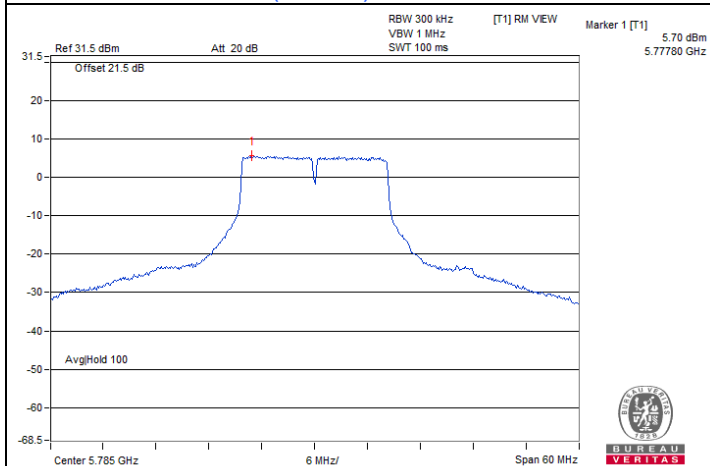
802.11be (EHT20) / Chain 1: CH 48



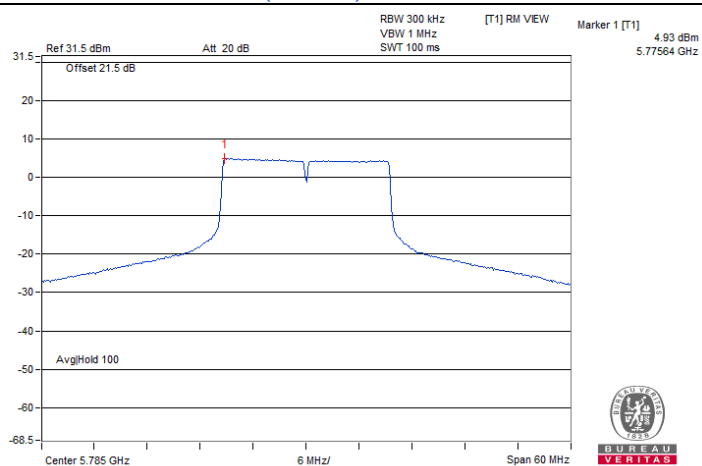
802.11be (EHT40) / Chain 0: CH 46



802.11be (EHT80) / Chain 0: CH 42

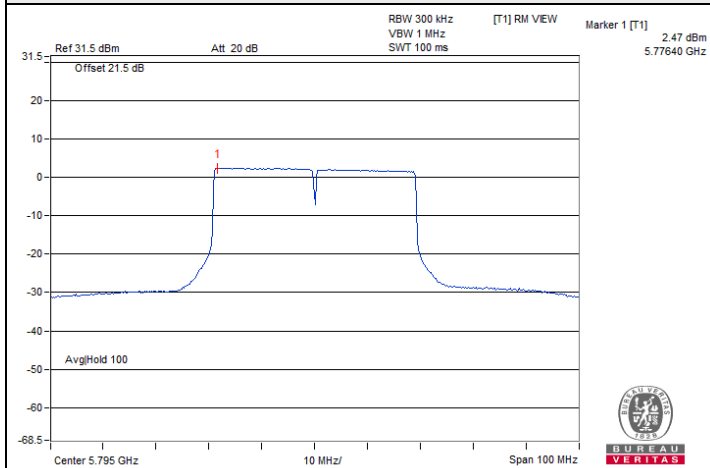


802.11a / Chain 1: CH 157

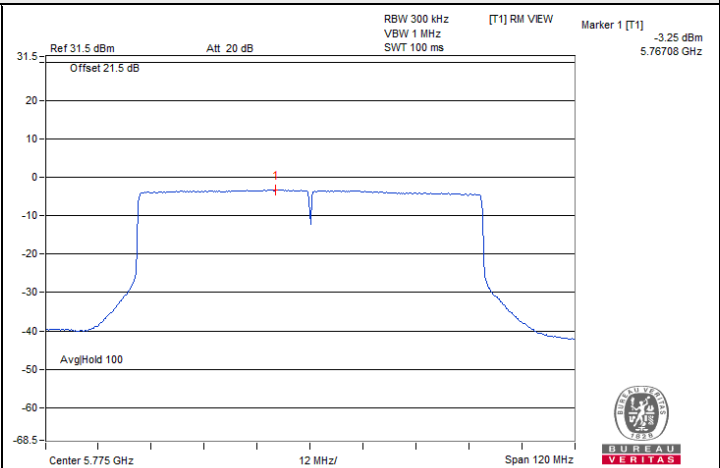


802.11be (EHT20) / Chain 1: CH 157

Spectrum Plot of Maximum Value



802.11be (EHT40) / Chain 0: CH 159



802.11be (EHT80) / Chain 0: CH 155

7.3 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	24°C, 58% RH	Tested By:	Jyunchun Lin
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802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
149	5745	16.42	16.43	0.5	Pass
157	5785	16.43	16.41	0.5	Pass
165	5825	16.36	16.42	0.5	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
149	5745	19.05	19.05	0.5	Pass
157	5785	19.03	19.15	0.5	Pass
165	5825	19.16	19.13	0.5	Pass

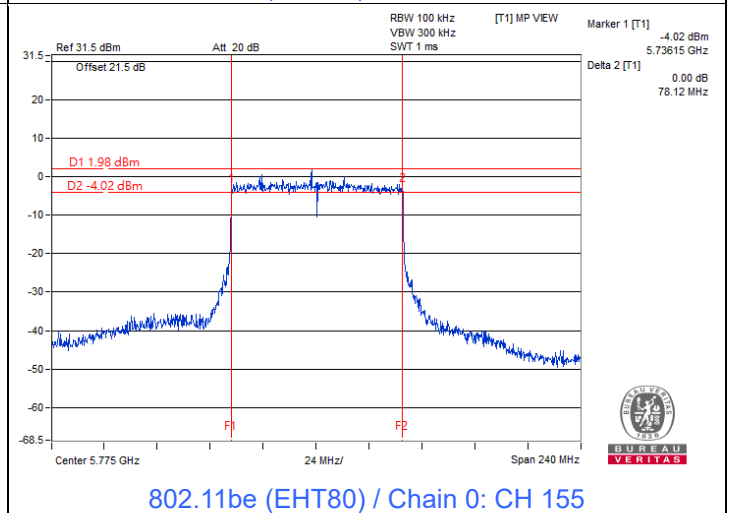
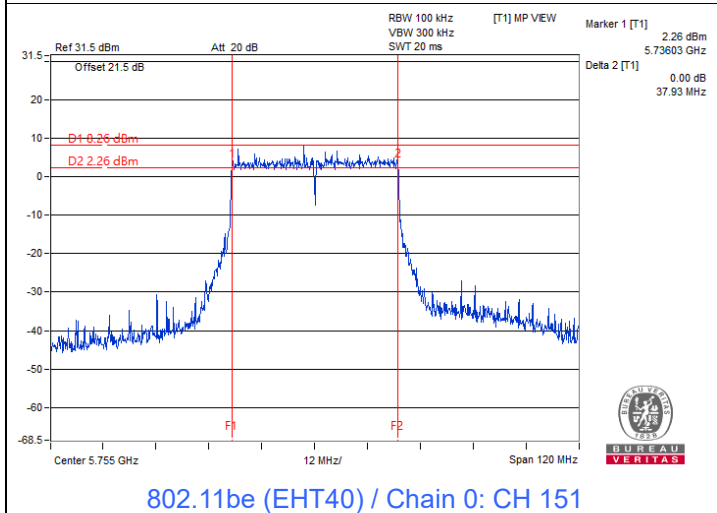
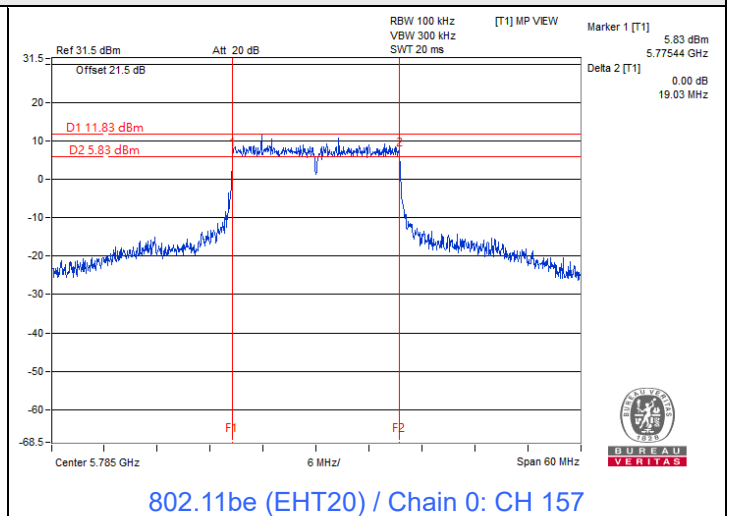
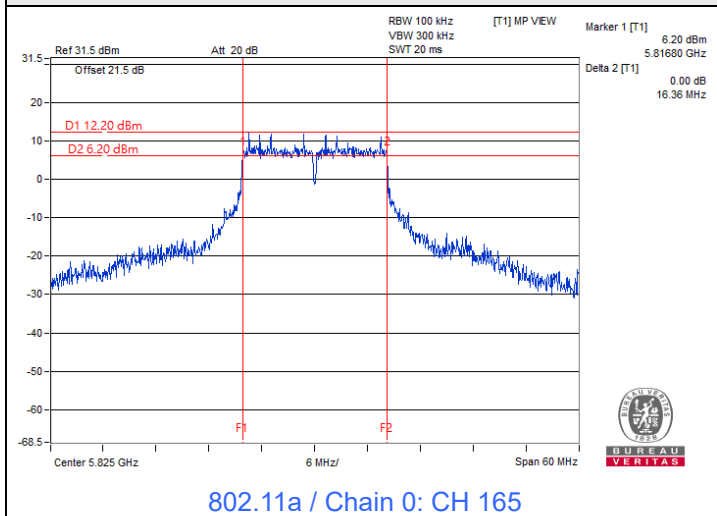
802.11be (EHT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
151	5755	37.93	38.01	0.5	Pass
159	5795	38.04	38.13	0.5	Pass

802.11be (EHT80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1		
155	5775	78.12	78.22	0.5	Pass

Spectrum Plot of Minimum Value



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

7.4 Occupied Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	24°C, 58% RH	Tested By:	Jyunchun Lin
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.86	16.80
40	5200	16.92	16.98
48	5240	16.92	17.22
149	5745	16.86	16.86
157	5785	17.58	17.52
165	5825	17.58	26.16

802.11be (EHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.14	19.02
40	5200	19.20	19.14
48	5240	19.08	19.14
149	5745	19.20	19.02
157	5785	19.26	19.62
165	5825	19.26	19.20

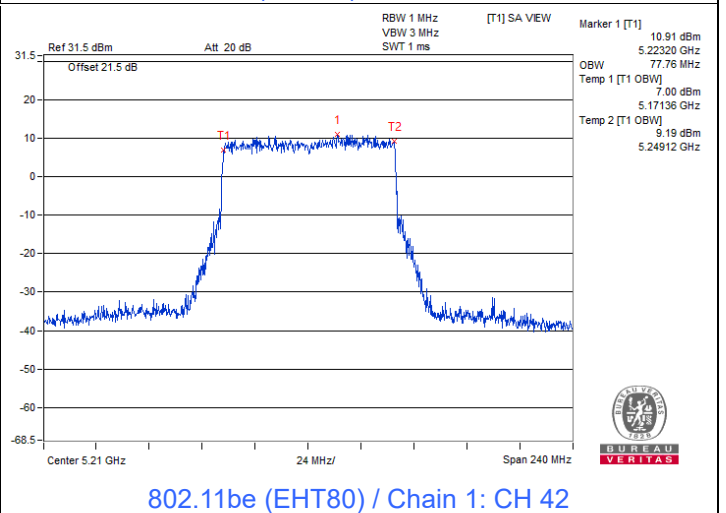
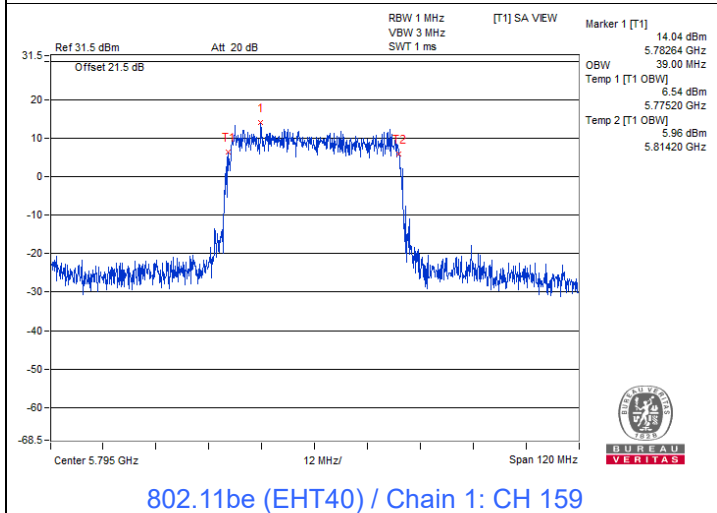
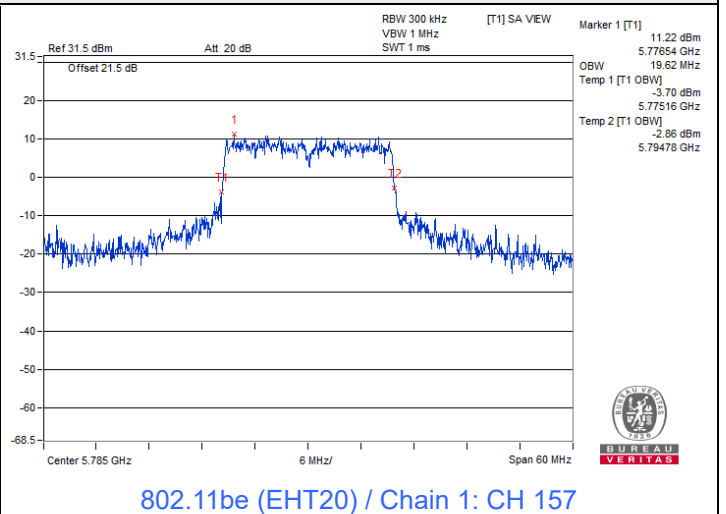
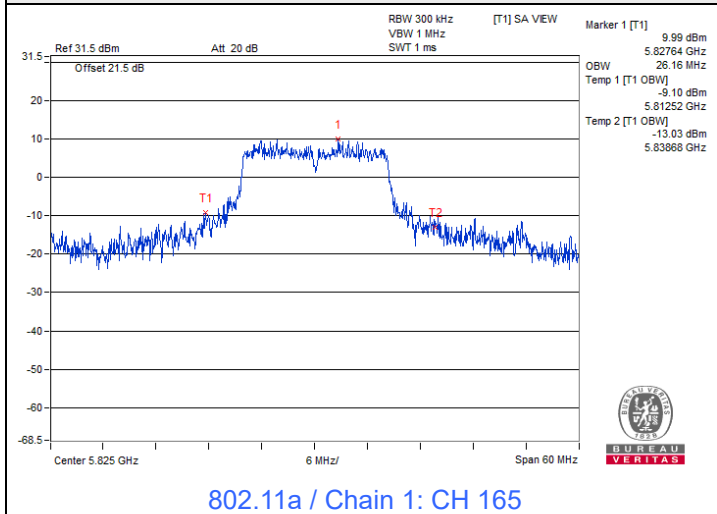
802.11be (EHT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	38.40	38.40
46	5230	38.28	38.40
151	5755	38.52	38.88
159	5795	38.76	39.00

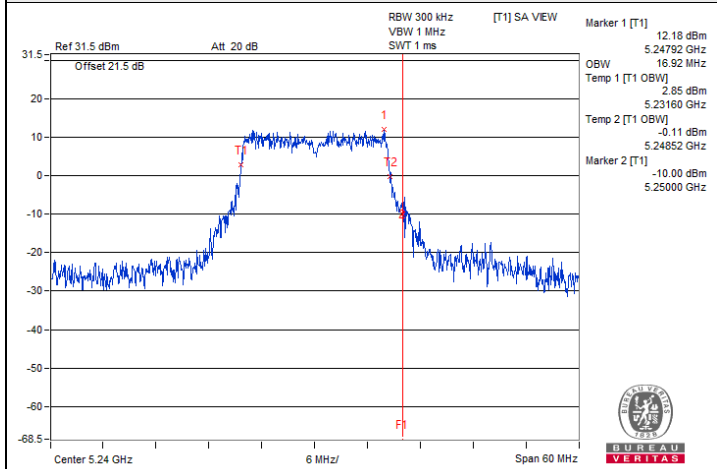
802.11be (EHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	77.52	77.76
155	5775	77.52	77.76

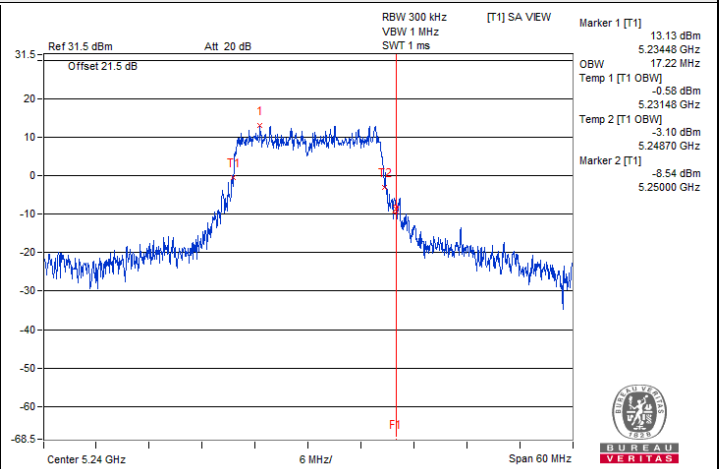
Spectrum Plot of Maximum Value



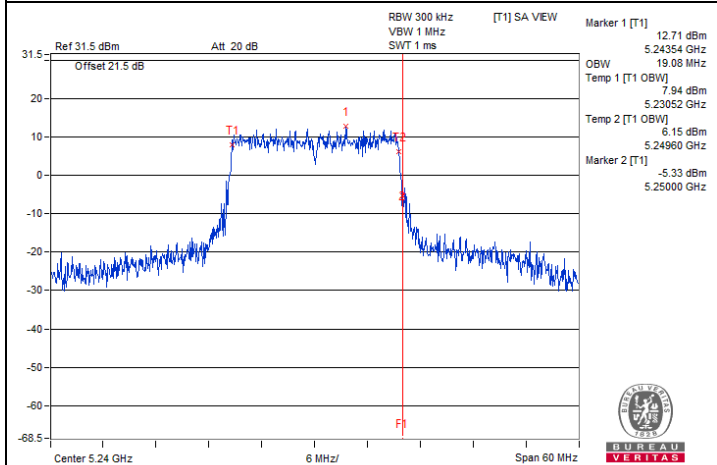
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



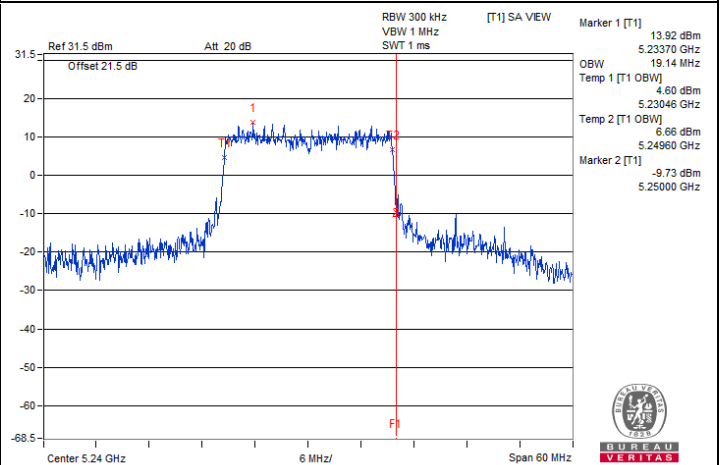
802.11a / Chain 0: CH 48



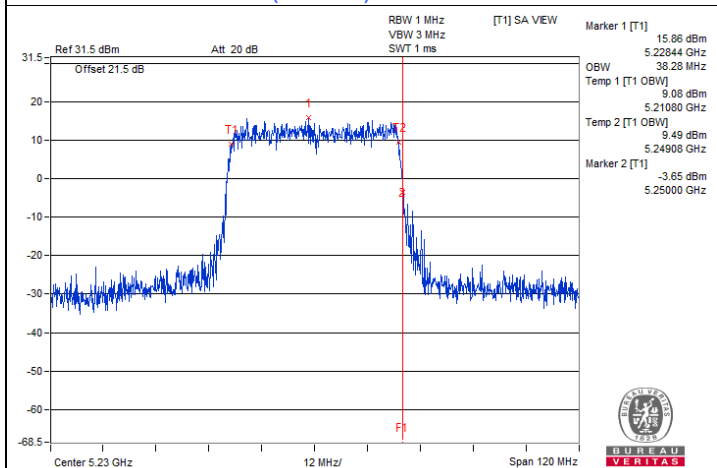
802.11a / Chain 1: CH 48



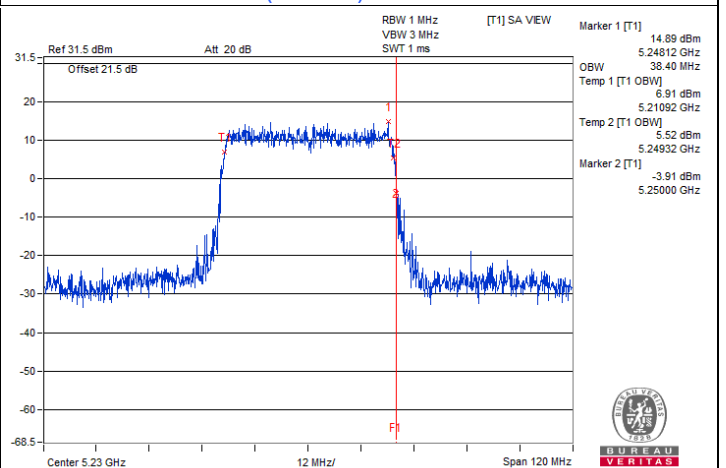
802.11be (EHT20) / Chain 0: CH 48



802.11be (EHT20) / Chain 1: CH 48

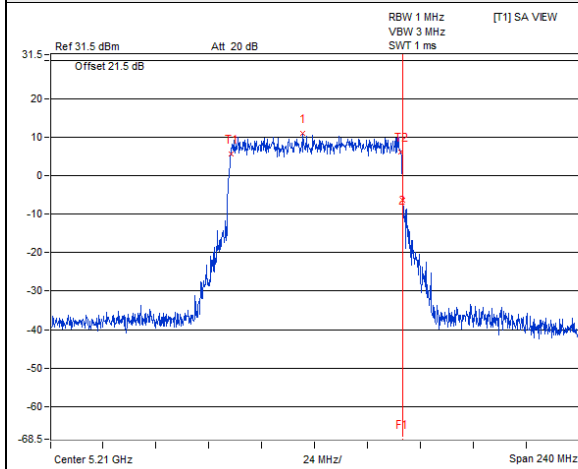


802.11be (EHT40) / Chain 0: CH 46

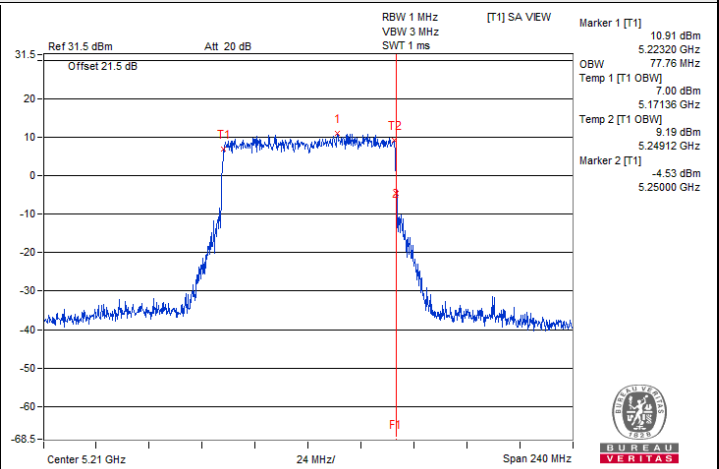


802.11be (EHT40) / Chain 1: CH 46

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

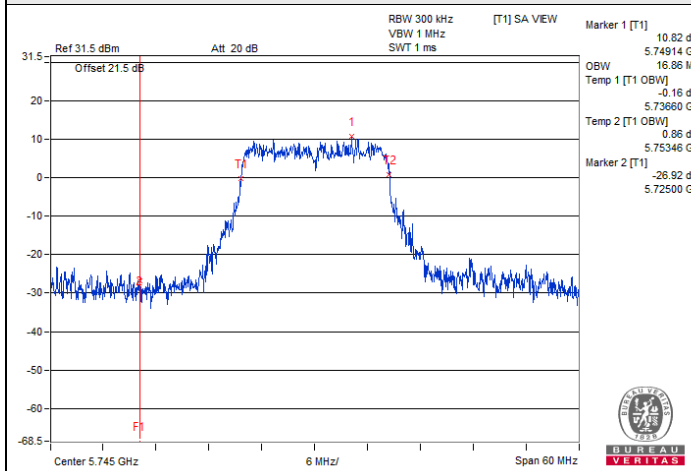


802.11be (EHT80) / Chain 0: CH 42

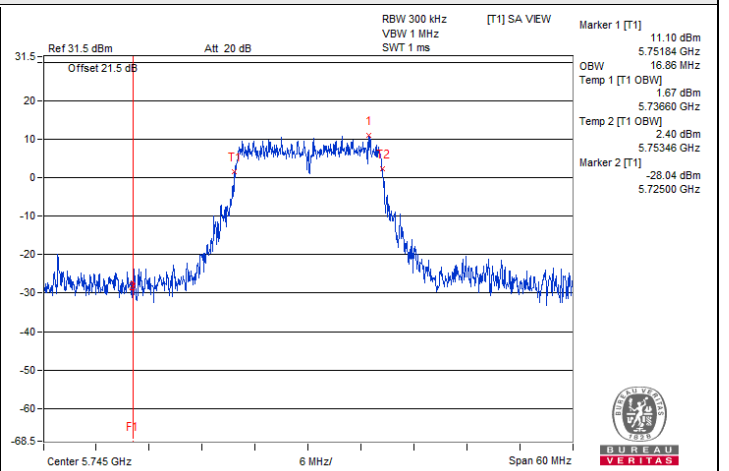


802.11be (EHT80) / Chain 1: CH 42

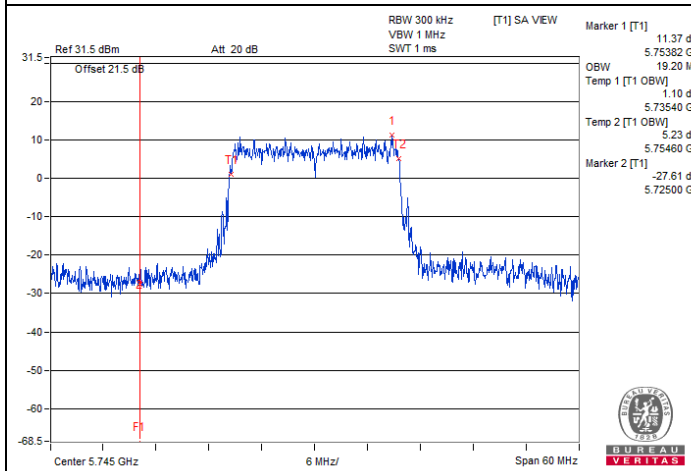
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



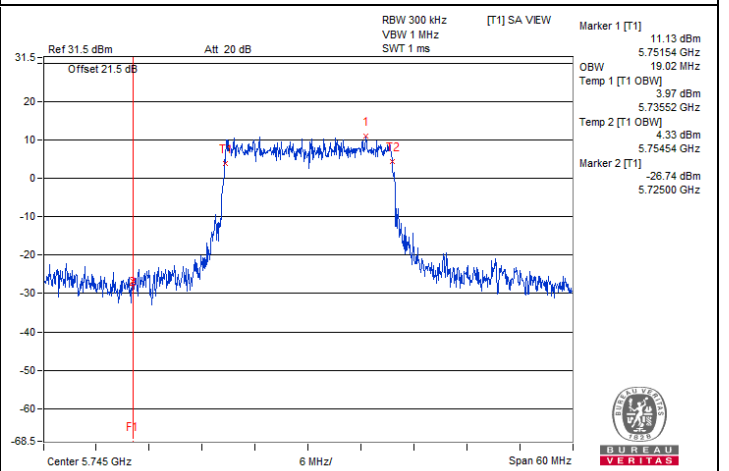
802.11a / Chain 0: CH 149



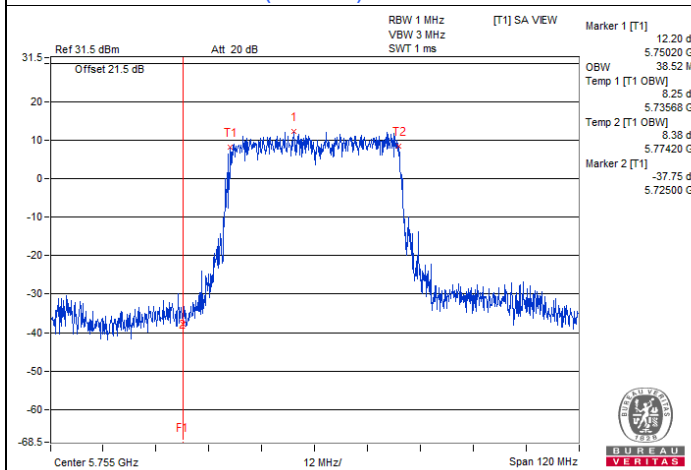
802.11a / Chain 1: CH 149



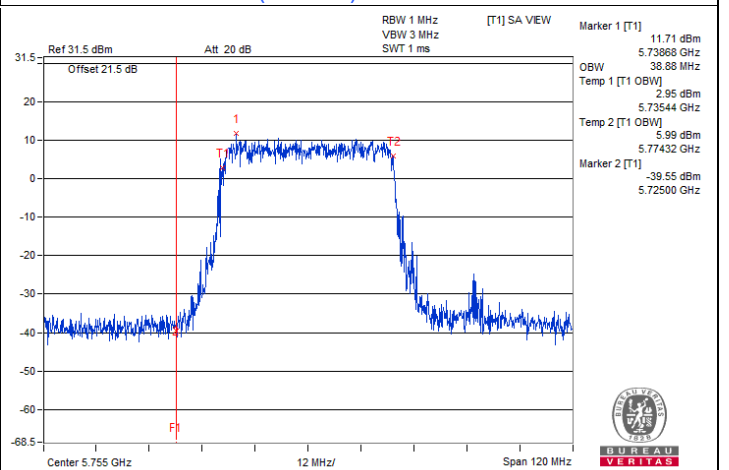
802.11be (EHT20) / Chain 0: CH 149



802.11be (EHT20) / Chain 1: CH 149

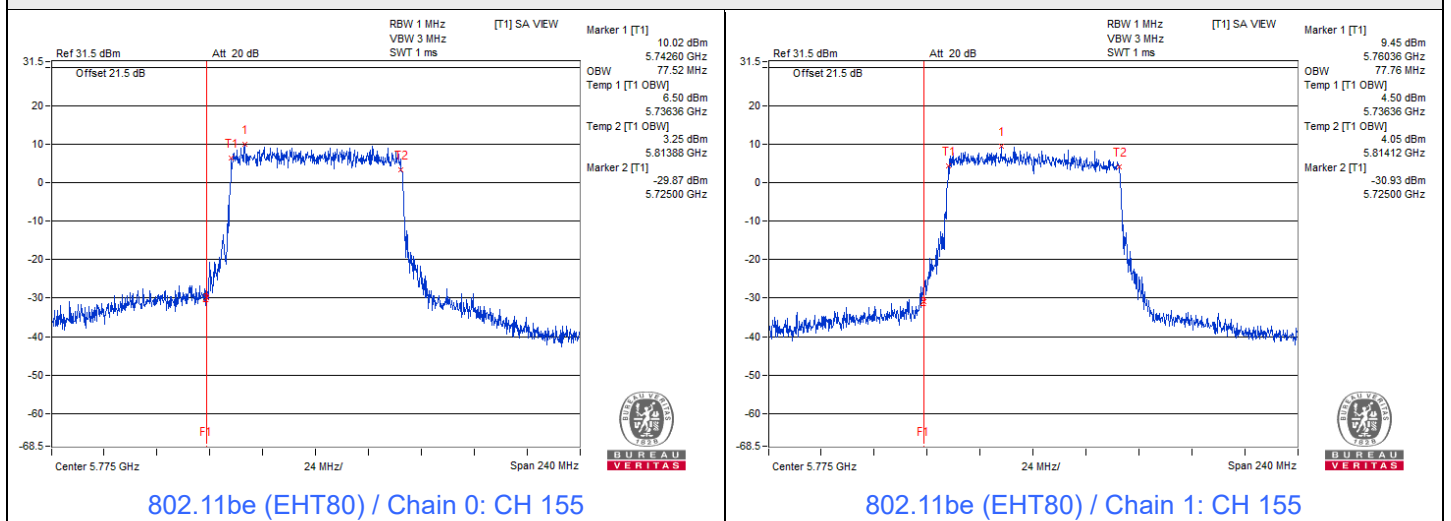


802.11be (EHT40) / Chain 0: CH 151



802.11be (EHT40) / Chain 1: CH 151

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



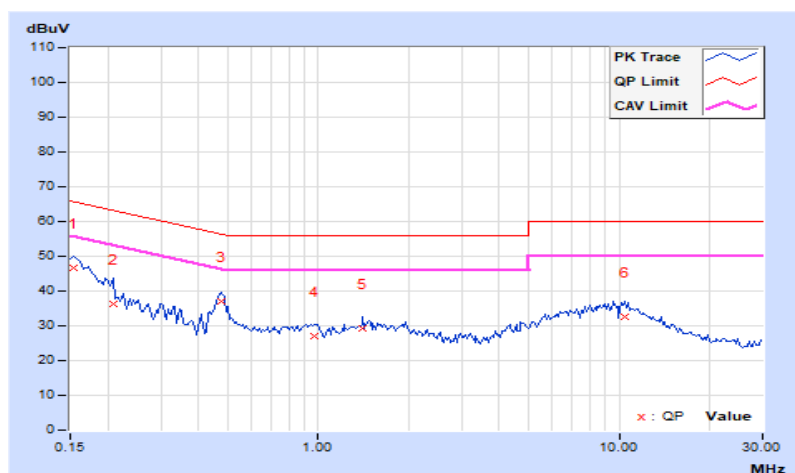
7.5 AC Power Conducted Emissions

RF Mode	802.11a	Channel	CH 48 : 5240 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	Tank 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	0.15391	9.97	36.85	22.43	46.82	32.40	65.79	55.79	-18.97	-23.39
2	0.20859	9.97	26.33	15.00	36.30	24.97	63.26	53.26	-26.96	-28.29
3	0.47422	10.01	27.12	18.61	37.13	28.62	56.44	46.44	-19.31	-17.82
4	0.96641	10.06	17.15	10.06	27.21	20.12	56.00	46.00	-28.79	-25.88
5	1.41016	10.07	19.20	12.53	29.27	22.60	56.00	46.00	-26.73	-23.40
6	10.46094	10.67	21.76	16.52	32.43	27.19	60.00	50.00	-27.57	-22.81

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

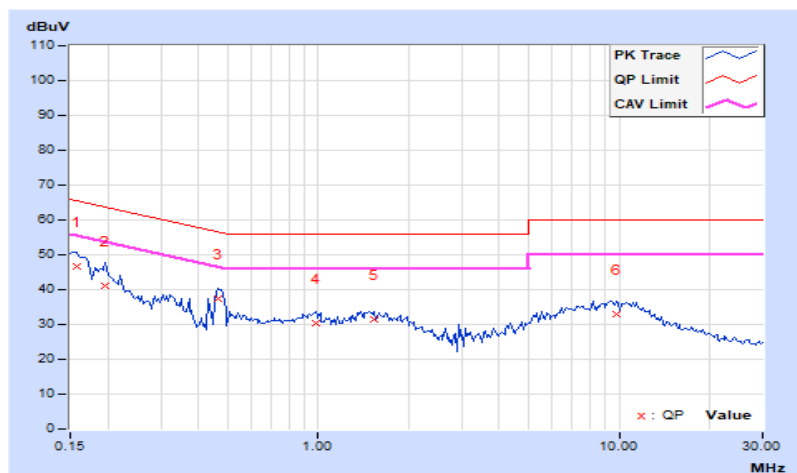


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	0.15781	9.99	36.76	23.99	46.75	33.98	65.58	55.58	-18.83	-21.60
2	0.19687	9.98	30.97	19.30	40.95	29.28	63.74	53.74	-22.79	-24.46
3	0.46641	9.95	27.44	21.95	37.39	31.90	56.58	46.58	-19.19	-14.68
4	0.98203	10.00	20.46	13.54	30.46	23.54	56.00	46.00	-25.54	-22.46
5	1.53125	10.04	21.43	16.61	31.47	26.65	56.00	46.00	-24.53	-19.35
6	9.84375	10.45	22.44	17.22	32.89	27.67	60.00	50.00	-27.11	-22.33

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



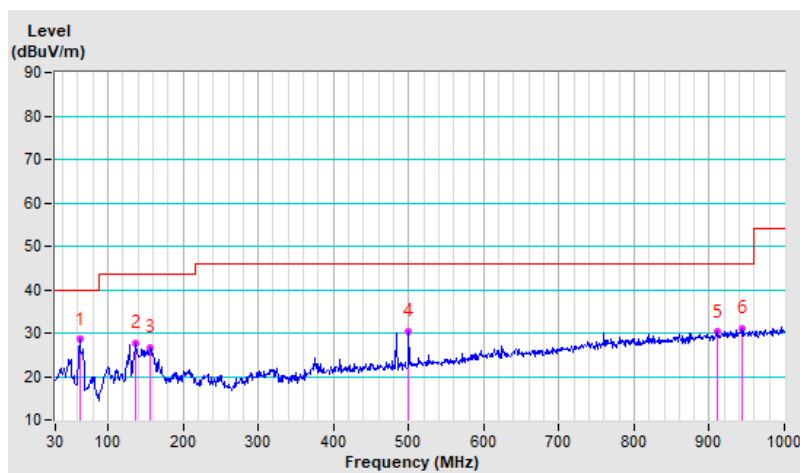
7.6 Unwanted Emissions below 1 GHz

RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank 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	62.74	28.5 PK	40.0	-11.5	3.00 H	298	42.3	-13.8
2	135.85	27.6 PK	43.5	-15.9	2.00 H	288	41.1	-13.5
3	156.46	26.7 PK	43.5	-16.8	3.00 H	288	39.5	-12.8
4	500.01	30.3 PK	46.0	-15.7	2.00 H	91	37.6	-7.3
5	910.81	30.2 PK	46.0	-15.8	3.00 H	168	30.3	-0.1
6	944.52	31.1 PK	46.0	-14.9	4.00 H	322	30.7	0.4

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.

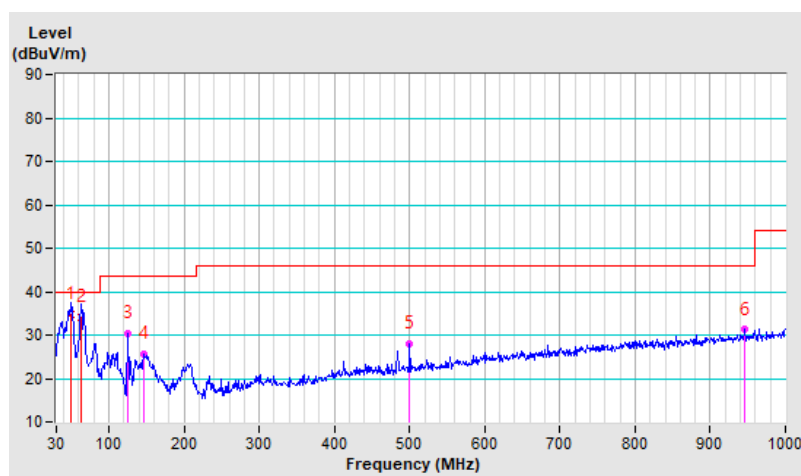


RF Mode	802.11a	Channel	CH 48 : 5240 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	PK: RB=120 kHz, DET=Peak QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Tank Wu		

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	50.32	34.8 QP	40.0	-5.2	1.00 V	40	47.6	-12.8
2	63.80	34.1 QP	40.0	-5.9	1.00 V	98	47.9	-13.8
3	125.01	30.4 PK	43.5	-13.1	1.00 V	71	44.8	-14.4
4	147.35	25.7 PK	43.5	-17.8	1.00 V	174	38.5	-12.8
5	500.01	28.0 PK	46.0	-18.0	2.00 V	360	35.3	-7.3
6	946.00	31.2 PK	46.0	-14.8	1.00 V	360	30.8	0.4

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.



7.7 Unwanted Emissions above 1 GHz

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Wayne Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.1 PK	74.0	-11.9	1.40 H	330	56.4	5.7
2	5150.00	49.9 AV	54.0	-4.1	1.40 H	330	44.2	5.7
3	*5180.00	112.2 PK			1.40 H	330	106.6	5.6
4	*5180.00	104.0 AV			1.40 H	330	98.4	5.6
5	#10360.00	50.9 PK	68.2	-17.3	1.50 H	116	35.3	15.6
6	15540.00	51.3 PK	74.0	-22.7	1.90 H	194	34.1	17.2
7	15540.00	38.6 AV	54.0	-15.4	1.90 H	194	21.4	17.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.0 PK	74.0	-13.0	1.46 V	344	55.3	5.7
2	5150.00	53.3 AV	54.0	-0.7	1.46 V	344	47.6	5.7
3	*5180.00	116.7 PK			1.46 V	344	111.1	5.6
4	*5180.00	110.9 AV			1.46 V	344	105.3	5.6
5	#10360.00	52.1 PK	68.2	-16.1	1.50 V	308	36.5	15.6
6	15540.00	51.6 PK	74.0	-22.4	1.50 V	282	34.4	17.2
7	15540.00	38.9 AV	54.0	-15.1	1.50 V	282	21.7	17.2

Remarks:

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

RF Mode	802.11a	Channel	CH 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 °C, 75% RH
Tested By	Wayne Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.1 PK	74.0	-17.9	2.38 H	348	50.4	5.7
2	5150.00	43.5 AV	54.0	-10.5	2.38 H	348	37.8	5.7
3	*5200.00	114.1 PK			2.38 H	348	108.5	5.6
4	*5200.00	105.5 AV			2.38 H	348	99.9	5.6
5	#10400.00	51.1 PK	68.2	-17.1	1.53 H	127	35.4	15.7
6	15600.00	51.1 PK	74.0	-22.9	1.92 H	200	33.8	17.3
7	15600.00	38.1 AV	54.0	-15.9	1.92 H	200	20.8	17.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.9 PK	74.0	-6.1	1.50 V	345	62.2	5.7
2	5150.00	53.5 AV	54.0	-0.5	1.50 V	345	47.8	5.7
3	*5200.00	118.2 PK			1.50 V	345	112.6	5.6
4	*5200.00	109.6 AV			1.50 V	345	104.0	5.6
5	#10400.00	52.3 PK	68.2	-15.9	1.48 V	317	36.6	15.7
6	15600.00	51.7 PK	74.0	-22.3	1.51 V	284	34.4	17.3
7	15600.00	39.2 AV	54.0	-14.8	1.51 V	284	21.9	17.3

Remarks:

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

RF Mode	802.11a	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 °C, 75% RH
Tested By	Wayne Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.1 PK	74.0	-16.9	2.32 H	345	51.4	5.7
2	5150.00	46.5 AV	54.0	-7.5	2.32 H	345	40.8	5.7
3	*5240.00	117.6 PK			2.32 H	345	112.3	5.3
4	*5240.00	108.1 AV			2.32 H	345	102.8	5.3
5	5350.00	57.8 PK	74.0	-16.2	2.32 H	345	52.2	5.6
6	5350.00	45.8 AV	54.0	-8.2	2.32 H	345	40.2	5.6
7	#10480.00	51.3 PK	68.2	-16.9	1.54 H	138	35.9	15.4
8	15720.00	51.8 PK	74.0	-22.2	1.89 H	204	33.3	18.5
9	15720.00	39.7 AV	54.0	-14.3	1.89 H	204	21.2	18.5

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.2 PK	74.0	-13.8	1.50 V	342	54.5	5.7
2	5150.00	47.5 AV	54.0	-6.5	1.50 V	342	41.8	5.7
3	*5240.00	120.1 PK			1.50 V	342	114.8	5.3
4	*5240.00	111.2 AV			1.50 V	342	105.9	5.3
5	5350.00	58.9 PK	74.0	-15.1	1.50 V	342	53.3	5.6
6	5350.00	46.3 AV	54.0	-7.7	1.50 V	342	40.7	5.6
7	#10480.00	52.6 PK	68.2	-15.6	1.48 V	321	37.2	15.4
8	15720.00	52.5 PK	74.0	-21.5	1.55 V	293	34.0	18.5
9	15720.00	40.4 AV	54.0	-13.6	1.55 V	293	21.9	18.5

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 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 °C, 75% RH
Tested By	Wayne Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5632.70	59.2 PK	68.2	-9.0	2.65 H	339	53.2	6.0
2	*5745.00	115.9 PK			2.65 H	339	109.9	6.0
3	*5745.00	107.7 AV			2.65 H	339	101.7	6.0
4	#5993.01	53.3 PK	68.2	-14.9	2.65 H	339	47.1	6.2
5	11490.00	51.5 PK	74.0	-22.5	1.47 H	153	35.0	16.5
6	11490.00	39.6 AV	54.0	-14.4	1.47 H	153	23.1	16.5
7	#17235.00	59.8 PK	68.2	-8.4	1.79 H	172	38.3	21.5
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	#5646.22	59.1 PK	68.2	-9.1	1.67 V	301	53.1	6.0
2	*5745.00	119.2 PK			1.67 V	301	113.2	6.0
3	*5745.00	110.5 AV			1.67 V	301	104.5	6.0
4	#5983.89	52.8 PK	68.2	-15.4	1.67 V	301	46.6	6.2
5	11490.00	53.6 PK	74.0	-20.4	1.53 V	328	37.1	16.5
6	11490.00	41.4 AV	54.0	-12.6	1.53 V	328	24.9	16.5
7	#17235.00	60.7 PK	68.2	-7.5	1.57 V	319	39.2	21.5

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 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 °C, 75% RH
Tested By	Wayne Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5596.87	55.7 PK	68.2	-12.5	2.59 H	342	49.7	6.0
2	*5785.00	116.6 PK			2.59 H	342	110.5	6.1
3	*5785.00	108.2 AV			2.59 H	342	102.1	6.1
4	#5962.11	52.7 PK	68.2	-15.5	2.59 H	342	46.6	6.1
5	11570.00	52.4 PK	74.0	-21.6	1.42 H	149	36.1	16.3
6	11570.00	40.3 AV	54.0	-13.7	1.42 H	149	24.0	16.3
7	#17355.00	59.9 PK	68.2	-8.3	1.76 H	159	38.4	21.5
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	#5647.37	67.0 PK	68.2	-1.2	1.66 V	306	61.0	6.0
2	*5785.00	120.2 PK			1.66 V	306	114.1	6.1
3	*5785.00	111.4 AV			1.66 V	306	105.3	6.1
4	#5949.90	53.5 PK	68.2	-14.7	1.66 V	306	47.4	6.1
5	11570.00	53.7 PK	74.0	-20.3	1.56 V	335	37.4	16.3
6	11570.00	41.7 AV	54.0	-12.3	1.56 V	335	25.4	16.3
7	#17355.00	60.9 PK	68.2	-7.3	1.51 V	313	39.4	21.5

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 °C, 75% RH
Tested By	Wayne Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.65	55.3 PK	68.2	-12.9	2.60 H	338	49.3	6.0
2	*5825.00	116.1 PK			2.60 H	338	109.9	6.2
3	*5825.00	107.4 AV			2.60 H	338	101.2	6.2
4	#5998.61	53.2 PK	68.2	-15.0	2.60 H	338	47.0	6.2
5	11650.00	51.9 PK	74.0	-22.1	2.73 H	206	35.8	16.1
6	11650.00	39.8 AV	54.0	-14.2	2.73 H	206	23.7	16.1
7	#17475.00	59.7 PK	68.2	-8.5	1.50 H	193	37.8	21.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5635.86	57.2 PK	68.2	-11.0	1.73 V	302	51.2	6.0
2	*5825.00	119.4 PK			1.73 V	302	113.2	6.2
3	*5825.00	110.7 AV			1.73 V	302	104.5	6.2
4	#5960.77	52.9 PK	68.2	-15.3	1.73 V	302	46.8	6.1
5	11650.00	53.6 PK	74.0	-20.4	1.40 V	314	37.5	16.1
6	11650.00	41.5 AV	54.0	-12.5	1.40 V	314	25.4	16.1
7	#17475.00	60.8 PK	68.2	-7.4	1.84 V	289	38.9	21.9

Remarks:

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

RF Mode	802.11be (EHT20)	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 °C, 75% RH
Tested By	Wayne Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	67.4 PK	74.0	-6.6	1.61 H	337	61.7	5.7
2	5150.00	53.3 AV	54.0	-0.7	1.61 H	337	47.6	5.7
3	*5180.00	116.3 PK			1.61 H	337	110.7	5.6
4	*5180.00	104.5 AV			1.61 H	337	98.9	5.6
5	#10360.00	50.6 PK	68.2	-17.6	1.51 H	107	35.0	15.6
6	15540.00	51.3 PK	74.0	-22.7	1.85 H	185	34.1	17.2
7	15540.00	38.1 AV	54.0	-15.9	1.85 H	185	20.9	17.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.6 PK	74.0	-10.4	1.49 V	346	57.9	5.7
2	5150.00	52.2 AV	54.0	-1.8	1.49 V	346	46.5	5.7
3	*5180.00	117.1 PK			1.49 V	346	111.5	5.6
4	*5180.00	107.2 AV			1.49 V	346	101.6	5.6
5	#10360.00	51.6 PK	68.2	-16.6	1.52 V	303	36.0	15.6
6	15540.00	51.4 PK	74.0	-22.6	1.48 V	279	34.2	17.2
7	15540.00	38.8 AV	54.0	-15.2	1.48 V	279	21.6	17.2

Remarks:

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

RF Mode	802.11be (EHT20)	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 °C, 75% RH
Tested By	Wayne Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.4 PK	74.0	-17.6	2.16 H	335	50.7	5.7
2	5150.00	44.9 AV	54.0	-9.1	2.16 H	335	39.2	5.7
3	*5200.00	117.2 PK			2.16 H	335	111.6	5.6
4	*5200.00	105.5 AV			2.16 H	335	99.9	5.6
5	#10400.00	50.8 PK	68.2	-17.4	1.55 H	117	35.1	15.7
6	15600.00	51.9 PK	74.0	-22.1	1.91 H	186	34.6	17.3
7	15600.00	38.4 AV	54.0	-15.6	1.91 H	186	21.1	17.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.4 PK	74.0	-9.6	1.75 V	350	58.7	5.7
2	5150.00	53.6 AV	54.0	-0.4	1.75 V	350	47.9	5.7
3	*5200.00	120.2 PK			1.75 V	350	114.6	5.6
4	*5200.00	110.8 AV			1.75 V	350	105.2	5.6
5	#10400.00	51.9 PK	68.2	-16.3	1.54 V	316	36.2	15.7
6	15600.00	51.8 PK	74.0	-22.2	1.46 V	289	34.5	17.3
7	15600.00	39.2 AV	54.0	-14.8	1.46 V	289	21.9	17.3

Remarks:

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

RF Mode	802.11be (EHT20)	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 °C, 75% RH
Tested By	Wayne Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.7 PK	74.0	-12.3	2.12 H	333	56.0	5.7
2	5150.00	49.9 AV	54.0	-4.1	2.12 H	333	44.2	5.7
3	*5240.00	118.3 PK			2.12 H	333	113.0	5.3
4	*5240.00	107.7 AV			2.12 H	333	102.4	5.3
5	5350.00	62.1 PK	74.0	-11.9	2.12 H	333	56.5	5.6
6	5350.00	48.1 AV	54.0	-5.9	2.12 H	333	42.5	5.6
7	#10480.00	51.1 PK	68.2	-17.1	1.49 H	100	35.7	15.4
8	15720.00	52.1 PK	74.0	-21.9	1.87 H	187	33.6	18.5
9	15720.00	38.9 AV	54.0	-15.1	1.87 H	187	20.4	18.5

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.2 PK	74.0	-17.8	1.60 V	340	50.5	5.7
2	5150.00	45.4 AV	54.0	-8.6	1.60 V	340	39.7	5.7
3	*5240.00	119.9 PK			1.60 V	340	114.6	5.3
4	*5240.00	109.4 AV			1.60 V	340	104.1	5.3
5	5350.00	58.5 PK	74.0	-15.5	1.60 V	340	52.9	5.6
6	5350.00	46.6 AV	54.0	-7.4	1.60 V	340	41.0	5.6
7	#10480.00	52.1 PK	68.2	-16.1	1.51 V	311	36.7	15.4
8	15720.00	51.8 PK	74.0	-22.2	1.46 V	276	33.3	18.5
9	15720.00	39.4 AV	54.0	-14.6	1.46 V	276	20.9	18.5

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	802.11be (EHT20)	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 °C, 75% RH
Tested By	Wayne Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5642.61	59.6 PK	68.2	-8.6	2.42 H	340	53.6	6.0
2	*5745.00	118.9 PK			2.42 H	340	112.9	6.0
3	*5745.00	108.1 AV			2.42 H	340	102.1	6.0
4	#5948.68	54.1 PK	68.2	-14.1	2.42 H	340	48.0	6.1
5	11490.00	51.9 PK	74.0	-22.1	1.59 H	121	35.4	16.5
6	11490.00	39.3 AV	54.0	-14.7	1.59 H	121	22.8	16.5
7	#17235.00	59.5 PK	68.2	-8.7	1.76 H	191	38.0	21.5
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	#5649.90	62.7 PK	68.2	-5.5	1.69 V	301	56.7	6.0
2	*5745.00	121.4 PK			1.69 V	301	115.4	6.0
3	*5745.00	110.6 AV			1.69 V	301	104.6	6.0
4	#6001.10	53.5 PK	68.2	-14.7	1.69 V	301	47.3	6.2
5	11490.00	53.3 PK	74.0	-20.7	1.77 V	286	36.8	16.5
6	11490.00	41.1 AV	54.0	-12.9	1.77 V	286	24.6	16.5
7	#17235.00	60.3 PK	68.2	-7.9	1.49 V	310	38.8	21.5

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	802.11be (EHT20)	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 °C, 75% RH
Tested By	Wayne Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5640.74	58.0 PK	68.2	-10.2	2.35 H	341	52.0	6.0
2	*5785.00	119.2 PK			2.35 H	341	113.1	6.1
3	*5785.00	108.2 AV			2.35 H	341	102.1	6.1
4	#6017.36	52.8 PK	68.2	-15.4	2.35 H	341	46.6	6.2
5	11570.00	51.9 PK	74.0	-22.1	1.60 H	120	35.6	16.3
6	11570.00	39.6 AV	54.0	-14.4	1.60 H	120	23.3	16.3
7	#17355.00	59.6 PK	68.2	-8.6	1.74 H	192	38.1	21.5
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	#5599.49	55.8 PK	68.2	-12.4	1.66 V	304	49.8	6.0
2	*5785.00	122.6 PK			1.66 V	304	116.5	6.1
3	*5785.00	111.4 AV			1.66 V	304	105.3	6.1
4	#5939.42	53.0 PK	68.2	-15.2	1.66 V	304	47.0	6.0
5	11570.00	53.8 PK	74.0	-20.2	1.81 V	290	37.5	16.3
6	11570.00	41.4 AV	54.0	-12.6	1.81 V	290	25.1	16.3
7	#17355.00	60.7 PK	68.2	-7.5	1.45 V	319	39.2	21.5

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	802.11be (EHT20)	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 °C, 75% RH
Tested By	Wayne Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.31	62.1 PK	68.2	-6.1	2.44 H	343	56.1	6.0
2	*5825.00	118.7 PK			2.44 H	343	112.5	6.2
3	*5825.00	107.9 AV			2.44 H	343	101.7	6.2
4	#6017.74	53.2 PK	68.2	-15.0	2.44 H	343	47.0	6.2
5	11650.00	51.7 PK	74.0	-22.3	1.66 H	130	35.6	16.1
6	11650.00	39.2 AV	54.0	-14.8	1.66 H	130	23.1	16.1
7	#17475.00	59.3 PK	68.2	-8.9	1.77 H	204	37.4	21.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5636.37	56.5 PK	68.2	-11.7	1.72 V	304	50.5	6.0
2	*5825.00	121.6 PK			1.72 V	304	115.4	6.2
3	*5825.00	110.7 AV			1.72 V	304	104.5	6.2
4	#5968.15	53.0 PK	68.2	-15.2	1.72 V	304	46.9	6.1
5	11650.00	53.3 PK	74.0	-20.7	1.86 V	289	37.2	16.1
6	11650.00	41.0 AV	54.0	-13.0	1.86 V	289	24.9	16.1
7	#17475.00	60.5 PK	68.2	-7.7	1.41 V	307	38.6	21.9

Remarks:

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

RF Mode	802.11be (EHT40)	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 °C, 75% RH
Tested By	Wayne Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	54.2 PK	74.0	-19.8	2.59 H	348	48.5	5.7
2	5150.00	43.9 AV	54.0	-10.1	2.59 H	348	38.2	5.7
3	*5190.00	112.3 PK			2.59 H	348	106.7	5.6
4	*5190.00	100.4 AV			2.59 H	348	94.8	5.6
5	#10380.00	50.3 PK	68.2	-17.9	1.39 H	141	34.6	15.7
6	15570.00	50.6 PK	74.0	-23.4	1.72 H	144	33.4	17.2
7	15570.00	37.7 AV	54.0	-16.3	1.72 H	144	20.5	17.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.7 PK	74.0	-9.3	1.63 V	345	59.0	5.7
2	5150.00	52.6 AV	54.0	-1.4	1.63 V	345	46.9	5.7
3	*5190.00	114.0 PK			1.63 V	345	108.4	5.6
4	*5190.00	103.3 AV			1.63 V	345	97.7	5.6
5	#10380.00	51.6 PK	68.2	-16.6	1.56 V	305	35.9	15.7
6	15570.00	51.5 PK	74.0	-22.5	1.47 V	290	34.3	17.2
7	15570.00	38.7 AV	54.0	-15.3	1.47 V	290	21.5	17.2

Remarks:

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

RF Mode	802.11be (EHT40)	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 °C, 75% RH
Tested By	Wayne Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.2 PK	74.0	-11.8	2.31 H	349	56.5	5.7
2	5150.00	48.4 AV	54.0	-5.6	2.31 H	349	42.7	5.7
3	*5230.00	114.2 PK			2.31 H	349	108.8	5.4
4	*5230.00	103.2 AV			2.31 H	349	97.8	5.4
5	#10460.00	50.9 PK	68.2	-17.3	1.52 H	123	35.4	15.5
6	15690.00	51.6 PK	74.0	-22.4	1.93 H	182	33.2	18.4
7	15690.00	38.3 AV	54.0	-15.7	1.93 H	182	19.9	18.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.7 PK	74.0	-7.3	1.73 V	341	61.0	5.7
2	5150.00	53.7 AV	54.0	-0.3	1.73 V	341	48.0	5.7
3	*5230.00	116.4 PK			1.73 V	341	111.0	5.4
4	*5230.00	105.9 AV			1.73 V	341	100.5	5.4
5	#10460.00	52.1 PK	68.2	-16.1	1.54 V	317	36.6	15.5
6	15690.00	52.2 PK	74.0	-21.8	1.52 V	277	33.8	18.4
7	15690.00	39.1 AV	54.0	-14.9	1.52 V	277	20.7	18.4

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	802.11be (EHT40)	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 °C, 75% RH
Tested By	Wayne Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5641.70	55.8 PK	68.2	-12.4	2.34 H	343	49.8	6.0
2	*5755.00	114.1 PK			2.34 H	343	108.1	6.0
3	*5755.00	102.2 AV			2.34 H	343	96.2	6.0
4	#6008.73	52.9 PK	68.2	-15.3	2.34 H	343	46.7	6.2
5	11510.00	51.4 PK	74.0	-22.6	1.42 H	84	35.0	16.4
6	11510.00	38.9 AV	54.0	-15.1	1.42 H	84	22.5	16.4
7	#17265.00	59.5 PK	68.2	-8.7	1.93 H	147	38.2	21.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.52	63.9 PK	68.2	-4.3	1.96 V	346	57.9	6.0
2	*5755.00	116.4 PK			1.96 V	346	110.4	6.0
3	*5755.00	105.1 AV			1.96 V	346	99.1	6.0
4	#5940.32	52.6 PK	68.2	-15.6	1.96 V	346	46.5	6.1
5	11510.00	53.1 PK	74.0	-20.9	1.53 V	249	36.7	16.4
6	11510.00	40.8 AV	54.0	-13.2	1.53 V	249	24.4	16.4
7	#17265.00	60.3 PK	68.2	-7.9	1.41 V	316	39.0	21.3

Remarks:

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

RF Mode	802.11be (EHT40)	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 °C, 75% RH
Tested By	Wayne Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5628.11	60.9 PK	68.2	-7.3	2.48 H	345	54.9	6.0
2	*5795.00	116.2 PK			2.48 H	345	110.1	6.1
3	*5795.00	104.2 AV			2.48 H	345	98.1	6.1
4	#6024.22	52.6 PK	68.2	-15.6	2.48 H	345	46.4	6.2
5	11590.00	51.6 PK	74.0	-22.4	1.44 H	82	35.2	16.4
6	11590.00	39.3 AV	54.0	-14.7	1.44 H	82	22.9	16.4
7	#17385.00	59.7 PK	68.2	-8.5	1.94 H	141	38.1	21.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5641.43	67.3 PK	68.2	-0.9	1.70 V	302	61.3	6.0
2	*5795.00	118.8 PK			1.70 V	302	112.7	6.1
3	*5795.00	108.1 AV			1.70 V	302	102.0	6.1
4	#5987.18	52.8 PK	68.2	-15.4	1.70 V	302	46.6	6.2
5	11590.00	53.6 PK	74.0	-20.4	1.57 V	263	37.2	16.4
6	11590.00	41.2 AV	54.0	-12.8	1.57 V	263	24.8	16.4
7	#17385.00	60.6 PK	68.2	-7.6	1.45 V	304	39.0	21.6

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	802.11be (EHT80)	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 °C, 75% RH
Tested By	Wayne Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.3 PK	74.0	-16.7	2.48 H	343	51.6	5.7
2	5150.00	45.9 AV	54.0	-8.1	2.48 H	343	40.2	5.7
3	*5210.00	108.6 PK			2.48 H	343	103.1	5.5
4	*5210.00	97.7 AV			2.48 H	343	92.2	5.5
5	#10420.00	50.2 PK	68.2	-18.0	1.37 H	148	34.6	15.6
6	15630.00	50.2 PK	74.0	-23.8	1.75 H	143	32.5	17.7
7	15630.00	37.5 AV	54.0	-16.5	1.75 H	143	19.8	17.7
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	63.6 PK	74.0	-10.4	1.64 V	340	57.9	5.7
2	5150.00	52.6 AV	54.0	-1.4	1.64 V	340	46.9	5.7
3	*5210.00	111.9 PK			1.64 V	340	106.4	5.5
4	*5210.00	100.3 AV			1.64 V	340	94.8	5.5
5	#10420.00	51.3 PK	68.2	-16.9	1.54 V	301	35.7	15.6
6	15630.00	51.2 PK	74.0	-22.8	1.48 V	289	33.5	17.7
7	15630.00	38.4 AV	54.0	-15.6	1.48 V	289	20.7	17.7

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	802.11be (EHT80)	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 °C, 75% RH
Tested By	Wayne Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5643.90	58.3 PK	68.2	-9.9	2.51 H	334	52.3	6.0
2	*5775.00	108.6 PK			2.51 H	334	102.6	6.0
3	*5775.00	98.2 AV			2.51 H	334	92.2	6.0
4	#5954.09	53.3 PK	68.2	-14.9	2.51 H	334	47.2	6.1
5	11550.00	50.7 PK	74.0	-23.3	1.47 H	115	34.4	16.3
6	11550.00	38.5 AV	54.0	-15.5	1.47 H	115	22.2	16.3
7	#17325.00	59.5 PK	68.2	-8.7	1.94 H	171	38.2	21.3
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.52	67.6 PK	68.2	-0.6	1.91 V	347	61.6	6.0
2	*5775.00	113.9 PK			1.91 V	347	107.9	6.0
3	*5775.00	101.9 AV			1.91 V	347	95.9	6.0
4	#5940.32	53.2 PK	68.2	-15.0	1.91 V	347	47.1	6.1
5	11550.00	52.8 PK	74.0	-21.2	1.58 V	305	36.5	16.3
6	11550.00	40.3 AV	54.0	-13.7	1.58 V	305	24.0	16.3
7	#17325.00	60.7 PK	68.2	-7.5	1.40 V	297	39.4	21.3

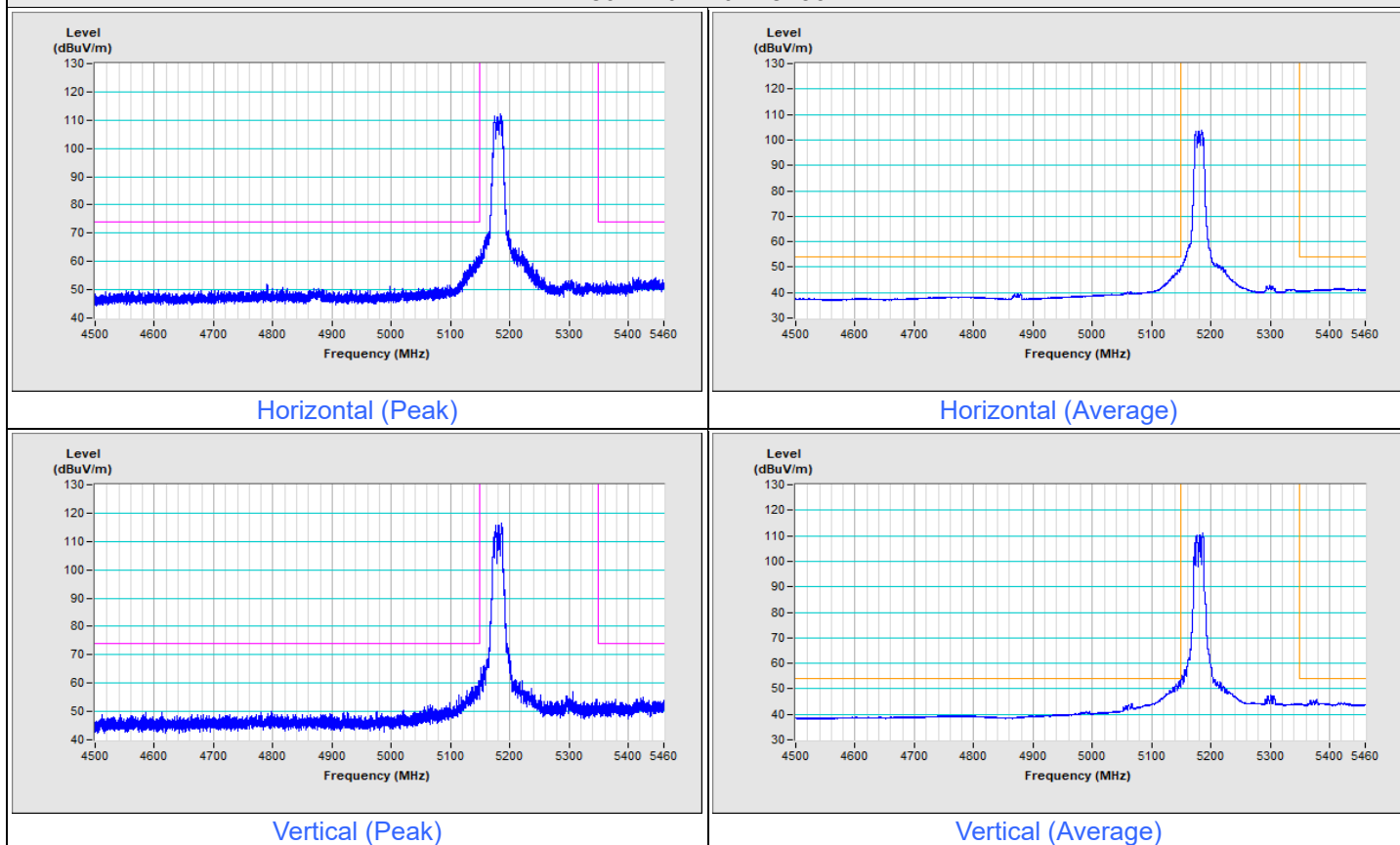
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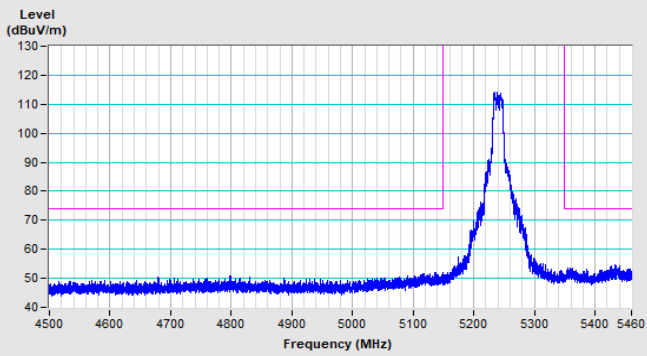
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency,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

Plot of Band Edge

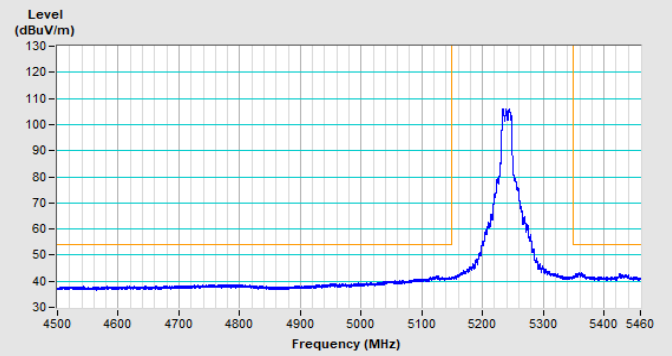
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11a Channel 36

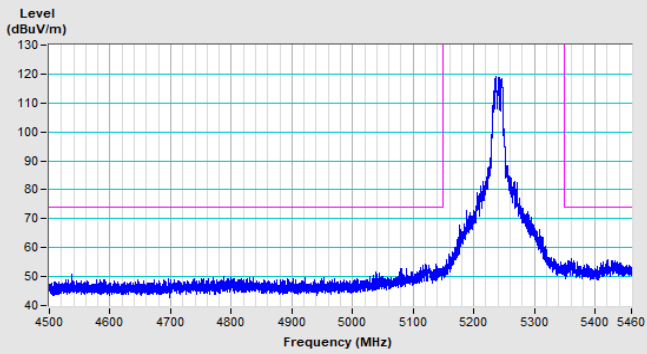


802.11a Channel 48

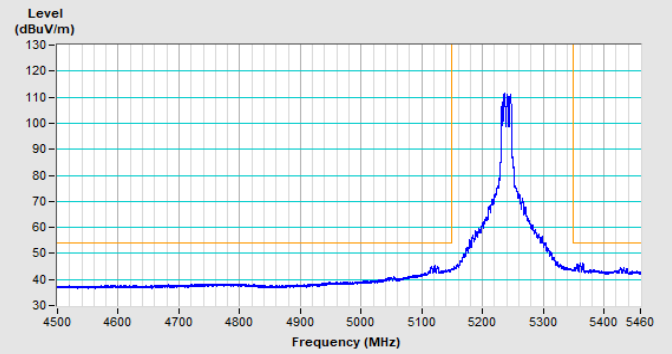
Horizontal (Peak)



Horizontal (Average)



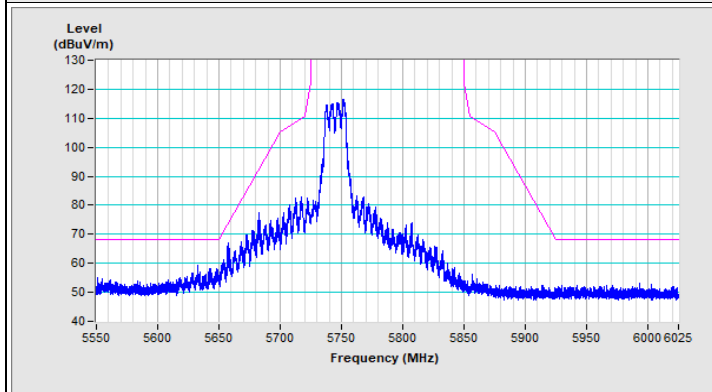
Vertical (Peak)



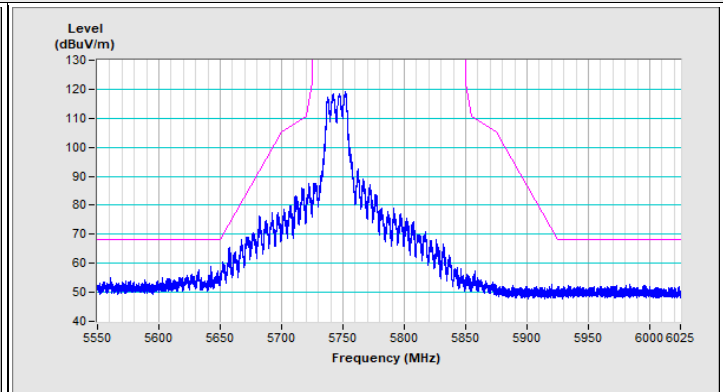
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11a Channel 149

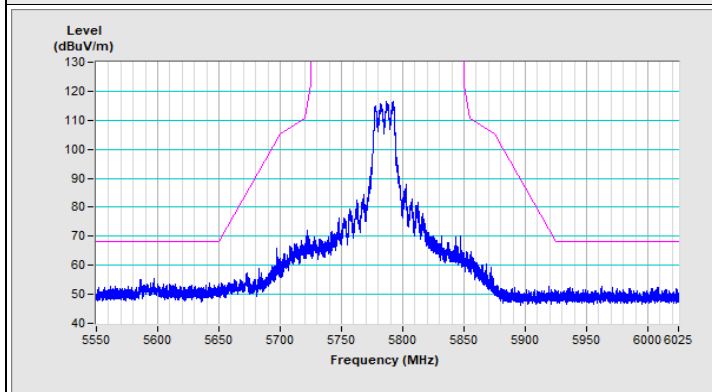


Horizontal (Peak)

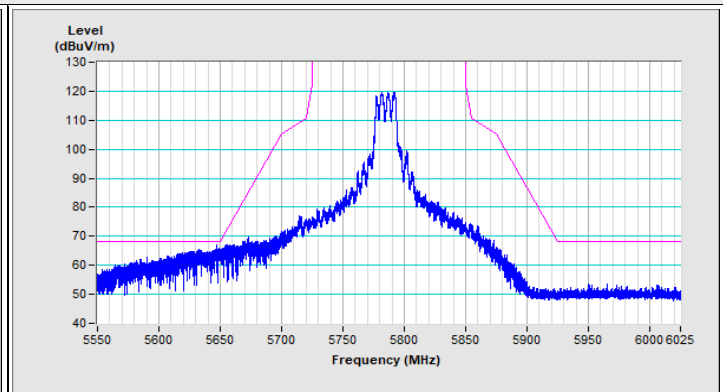


Vertical (Peak)

802.11a Channel 157

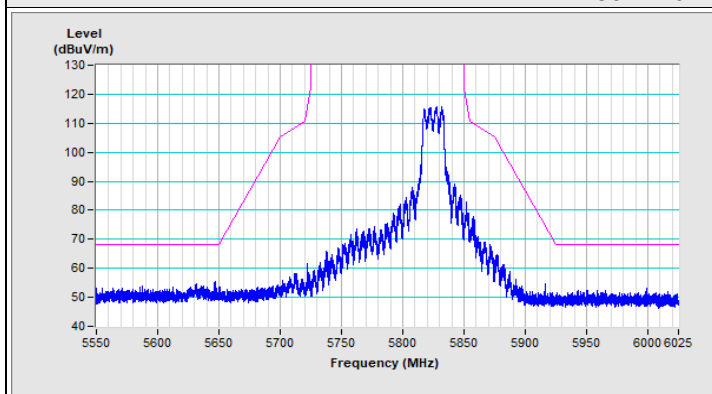


Horizontal (Peak)

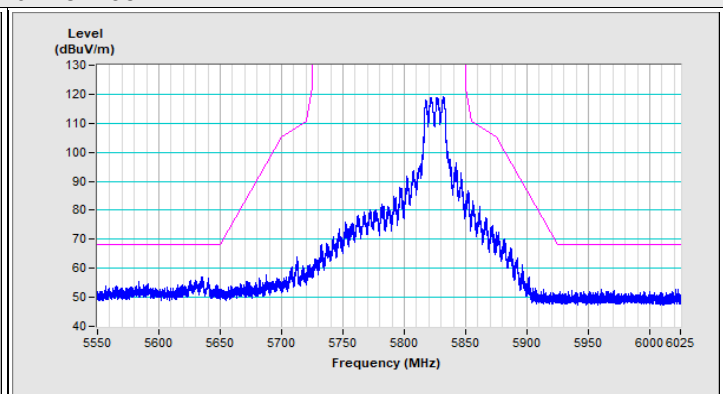


Vertical (Peak)

802.11a Channel 165



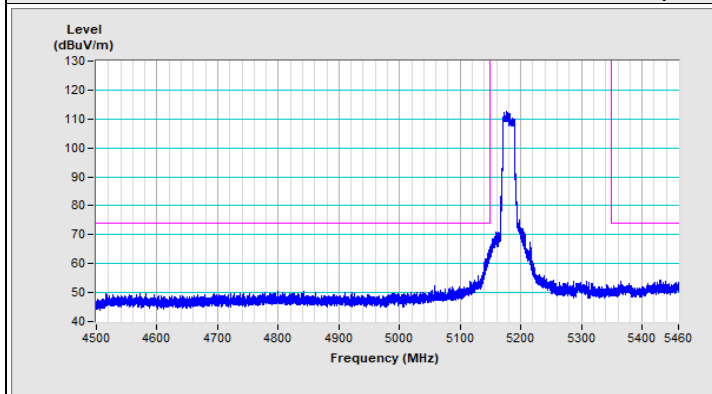
Horizontal (Peak)



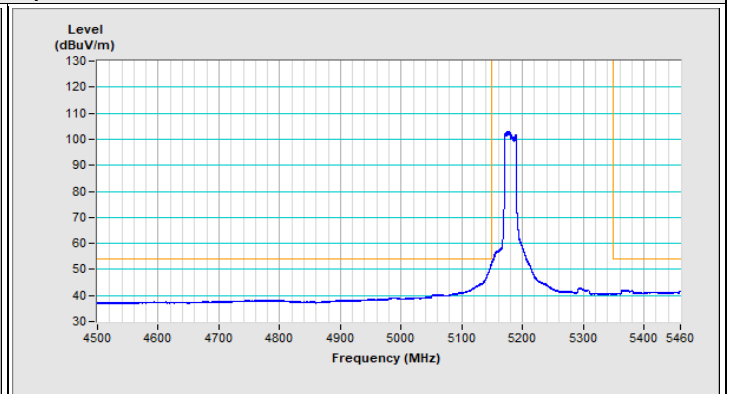
Vertical (Peak)

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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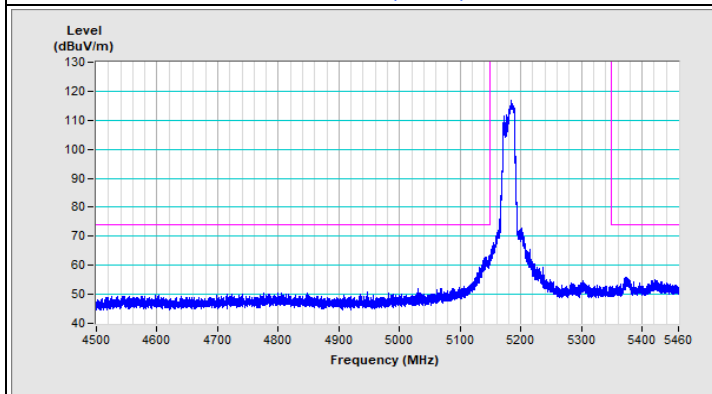
802.11be (EHT20) Channel 36



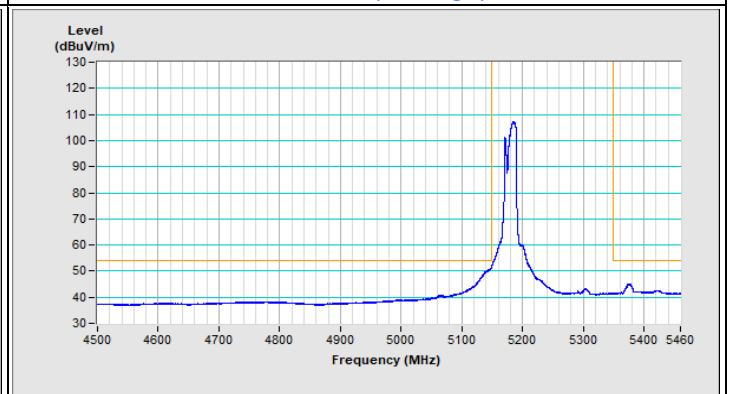
Horizontal (Peak)



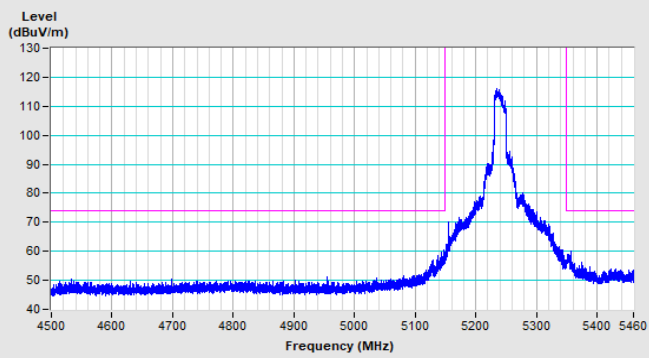
Horizontal (Average)



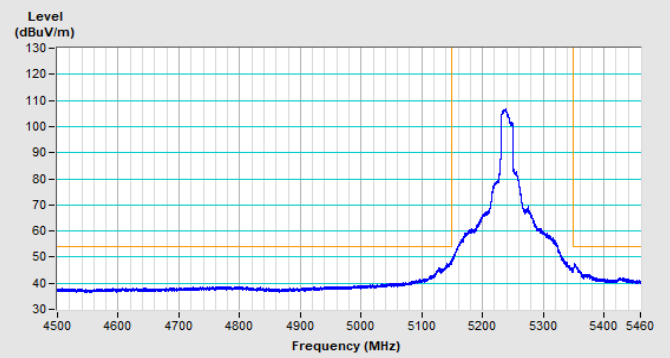
Vertical (Peak)



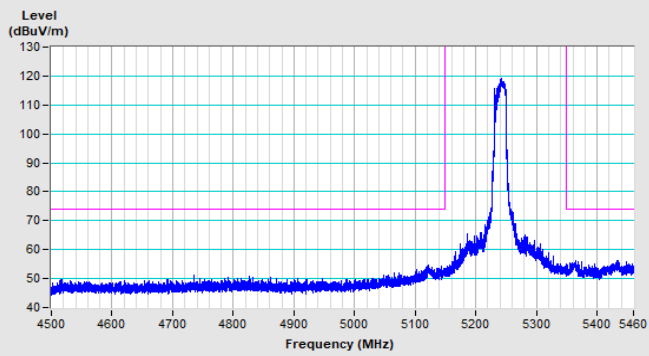
Vertical (Average)

802.11be (EHT20) Channel 48

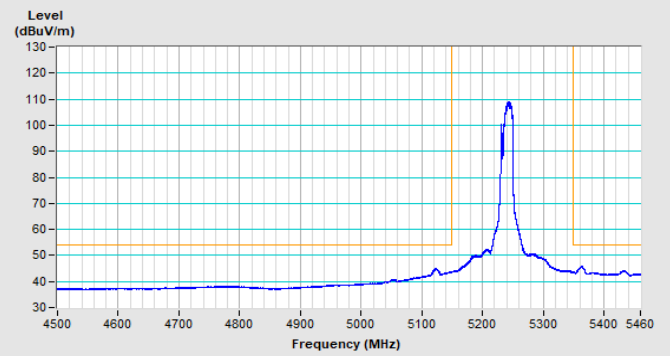
Horizontal (Peak)



Horizontal (Average)



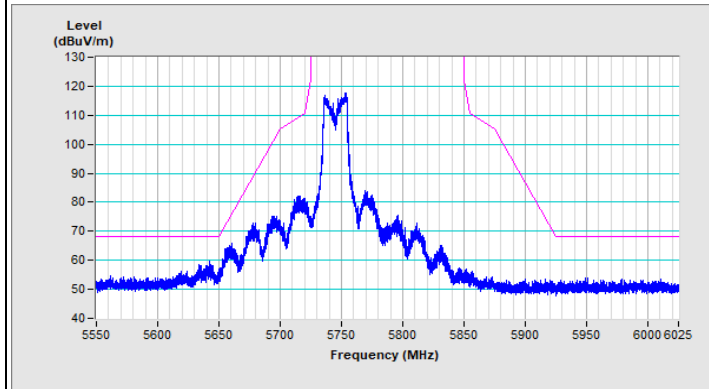
Vertical (Peak)



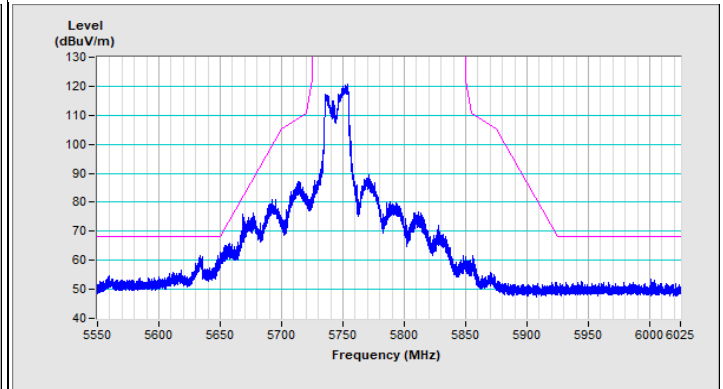
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11be (EHT20) Channel 149

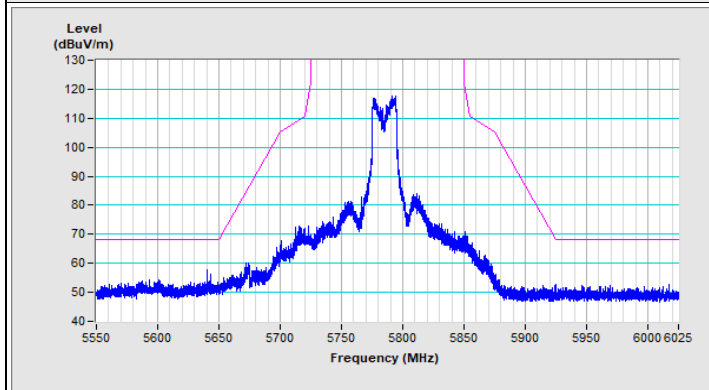


Horizontal (Peak)

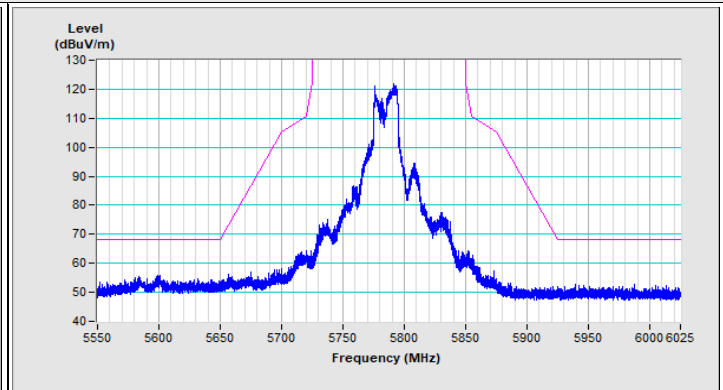


Vertical (Peak)

802.11be (EHT20) Channel 157

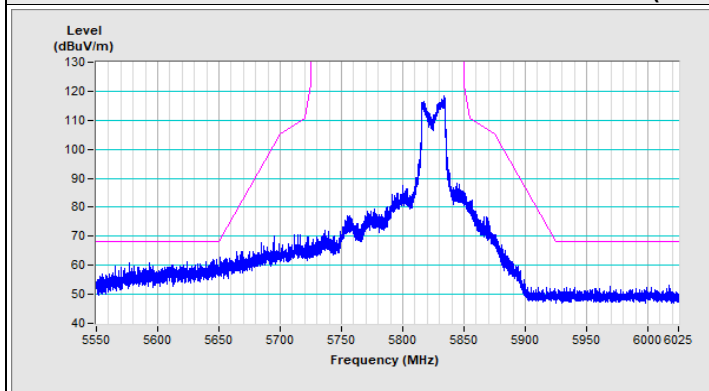


Horizontal (Peak)

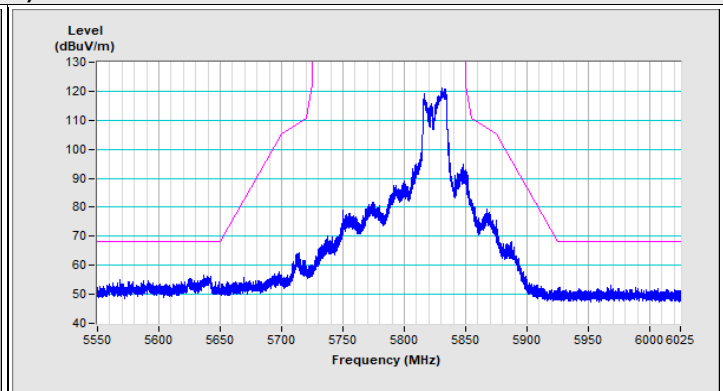


Vertical (Peak)

802.11be (EHT20) Channel 165



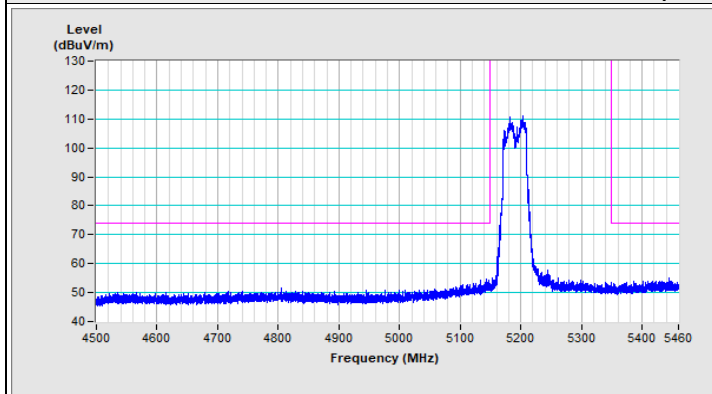
Horizontal (Peak)



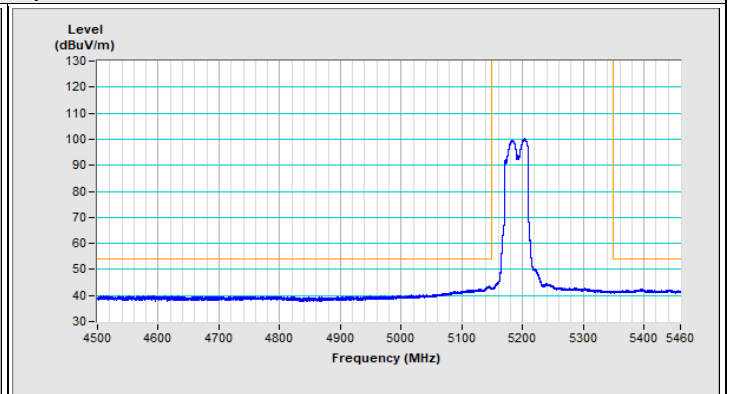
Vertical (Peak)

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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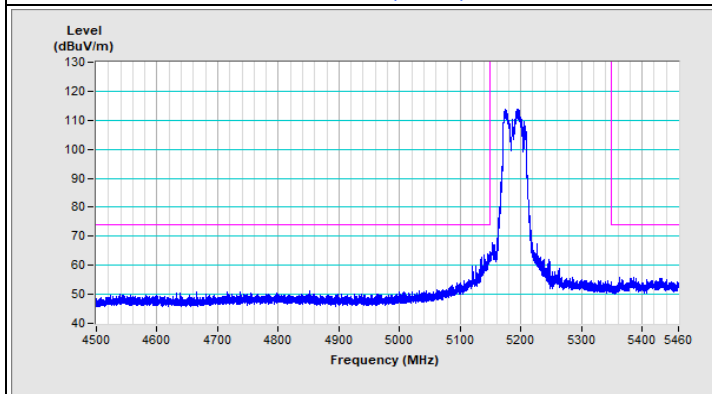
802.11be (EHT40) Channel 38



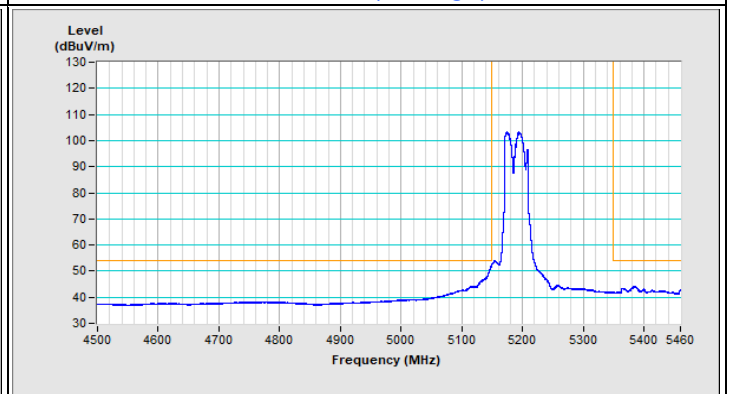
Horizontal (Peak)



Horizontal (Average)

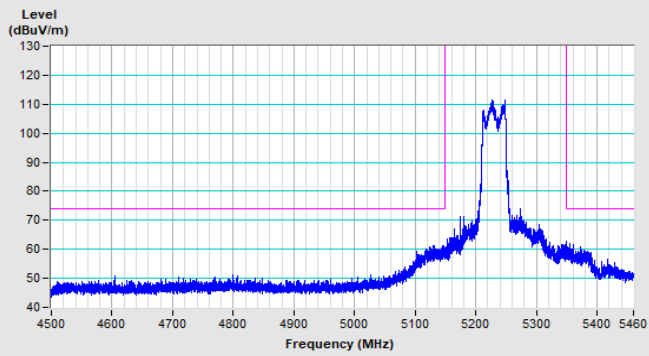


Vertical (Peak)

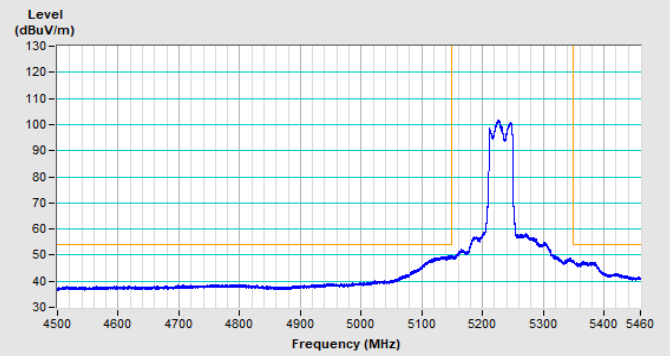


Vertical (Average)

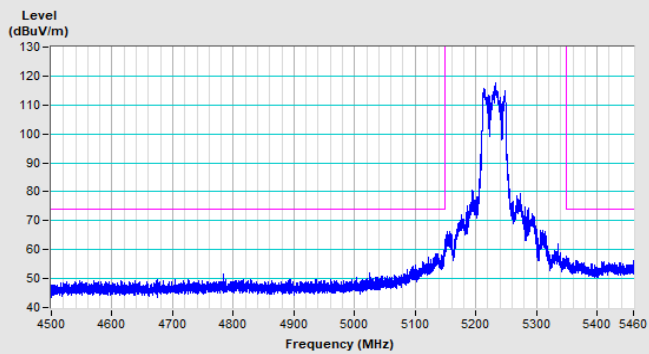
802.11be (EHT40) Channel 46



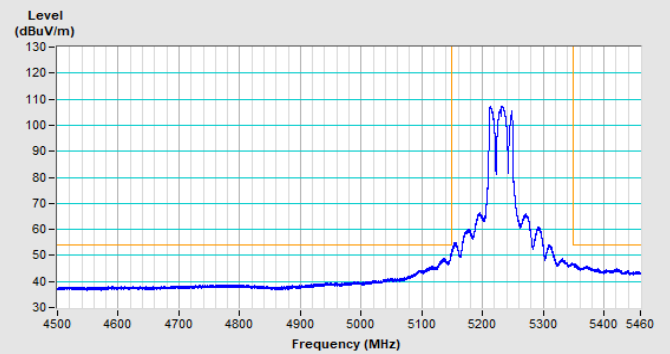
Horizontal (Peak)



Horizontal (Average)



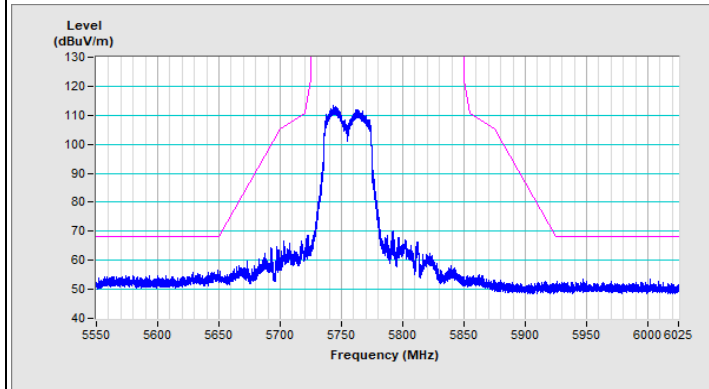
Vertical (Peak)



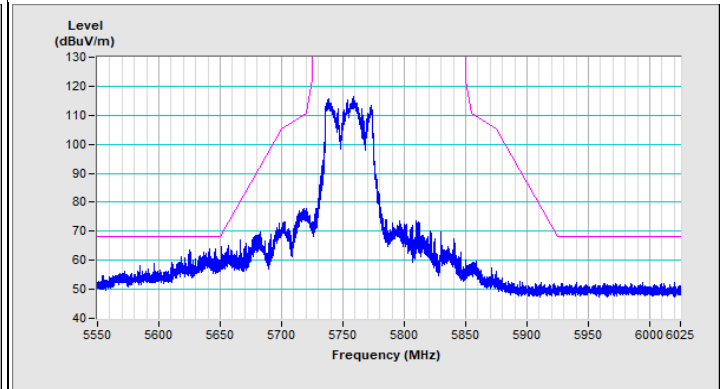
Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11be (EHT40) Channel 151

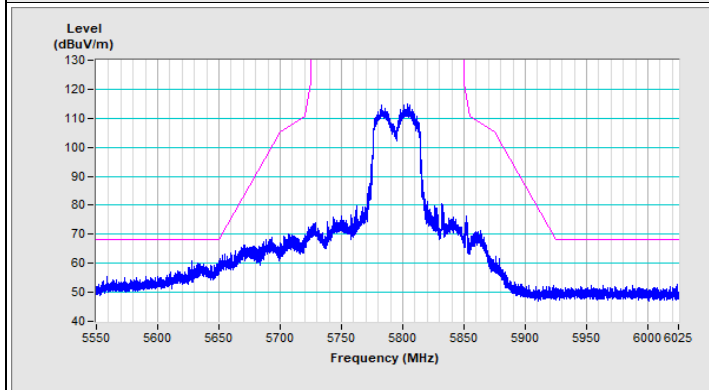


Horizontal (Peak)

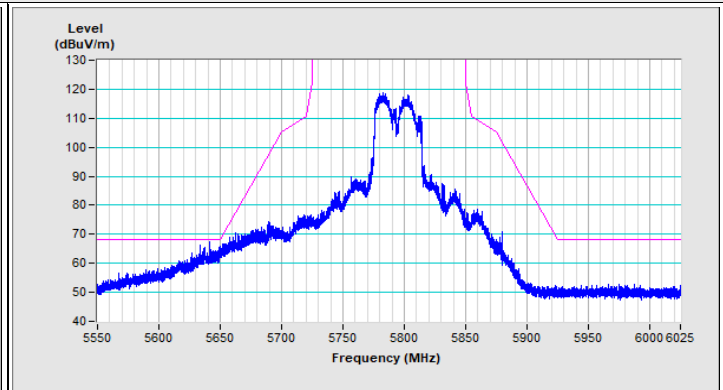


Vertical (Peak)

802.11be (EHT40) Channel 159



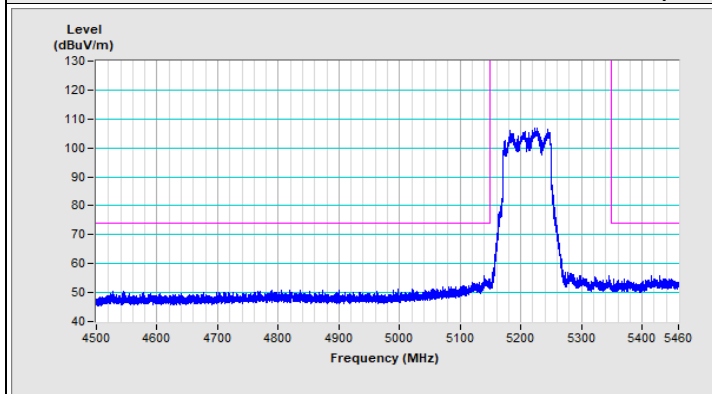
Horizontal (Peak)



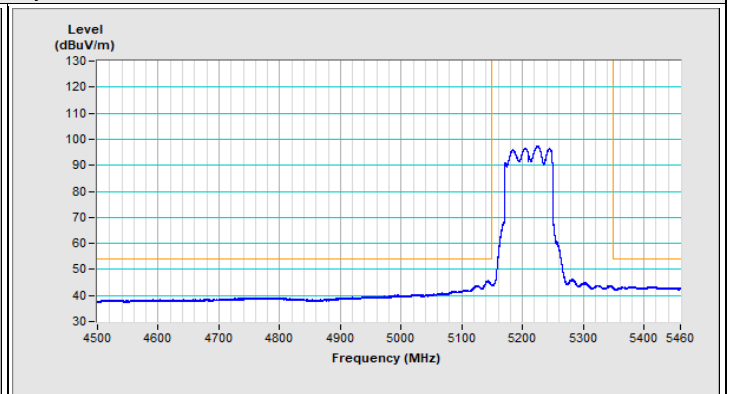
Vertical (Peak)

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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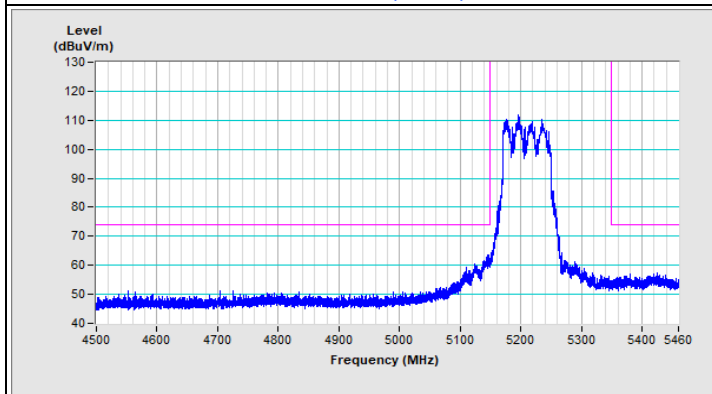
802.11be (EHT80) Channel 42



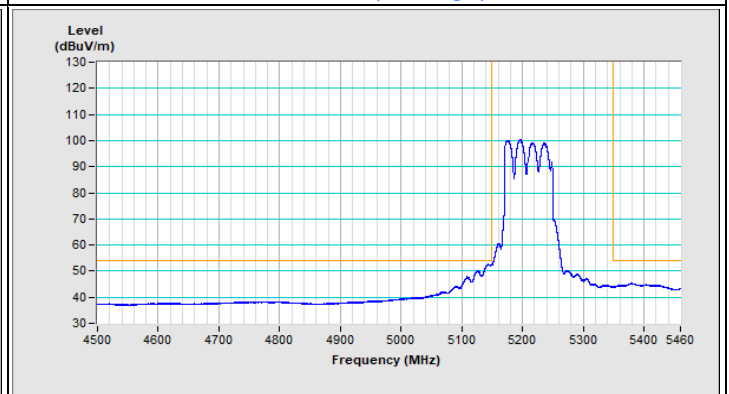
Horizontal (Peak)



Horizontal (Average)



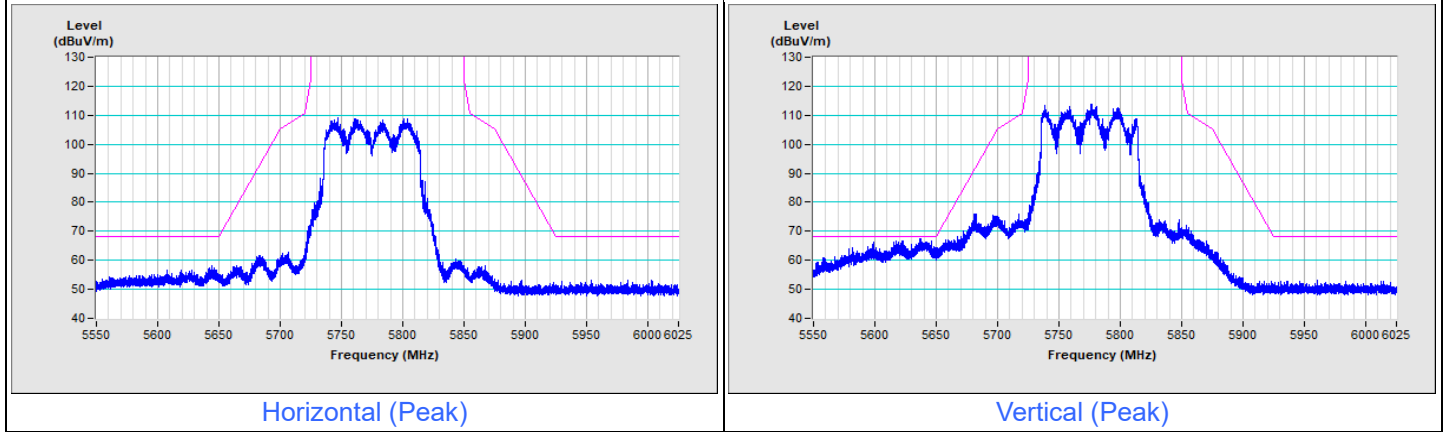
Vertical (Peak)



Vertical (Average)

Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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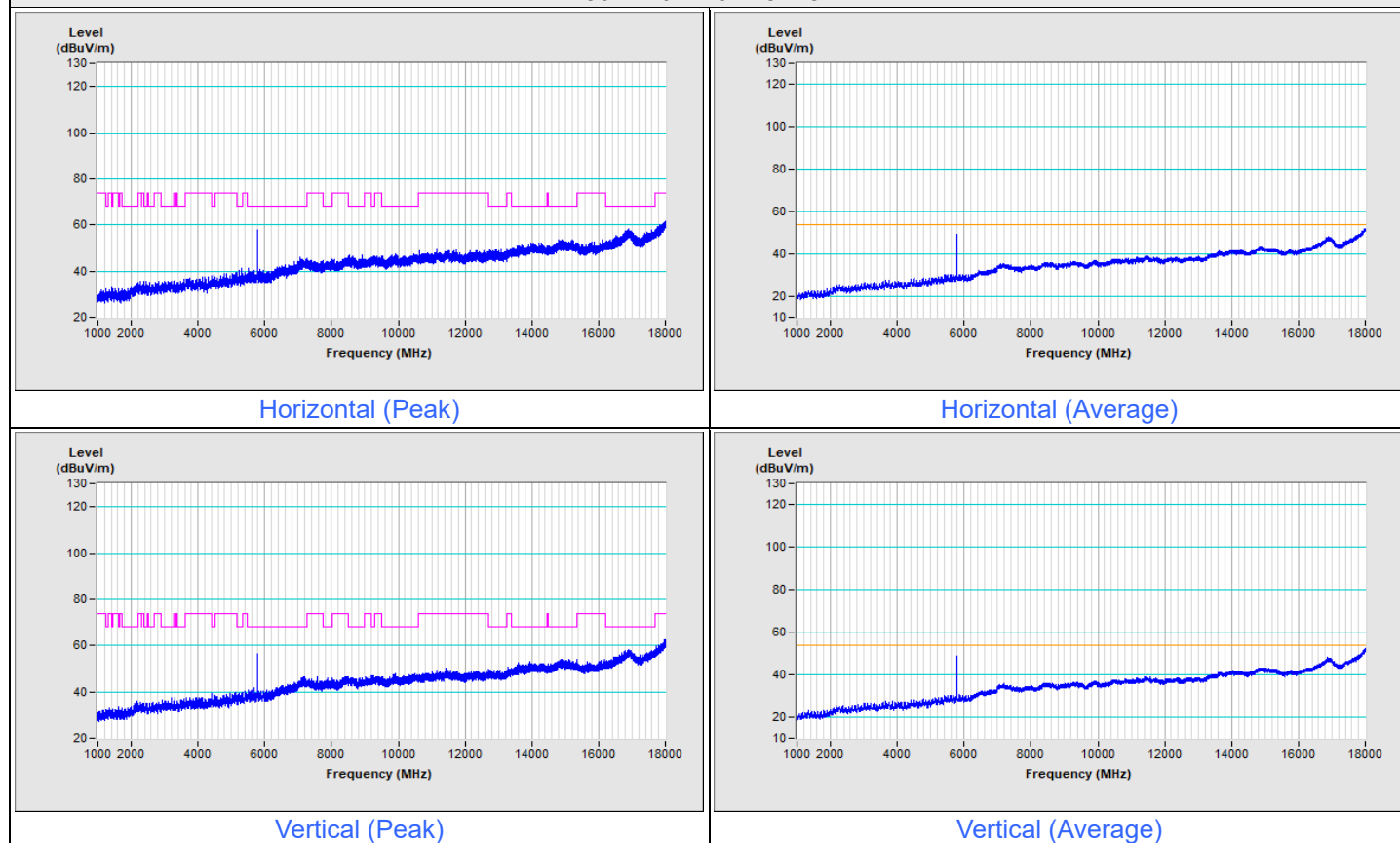
802.11be (EHT80) Channel 155



Plot of Other Emission

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11a Channel 157

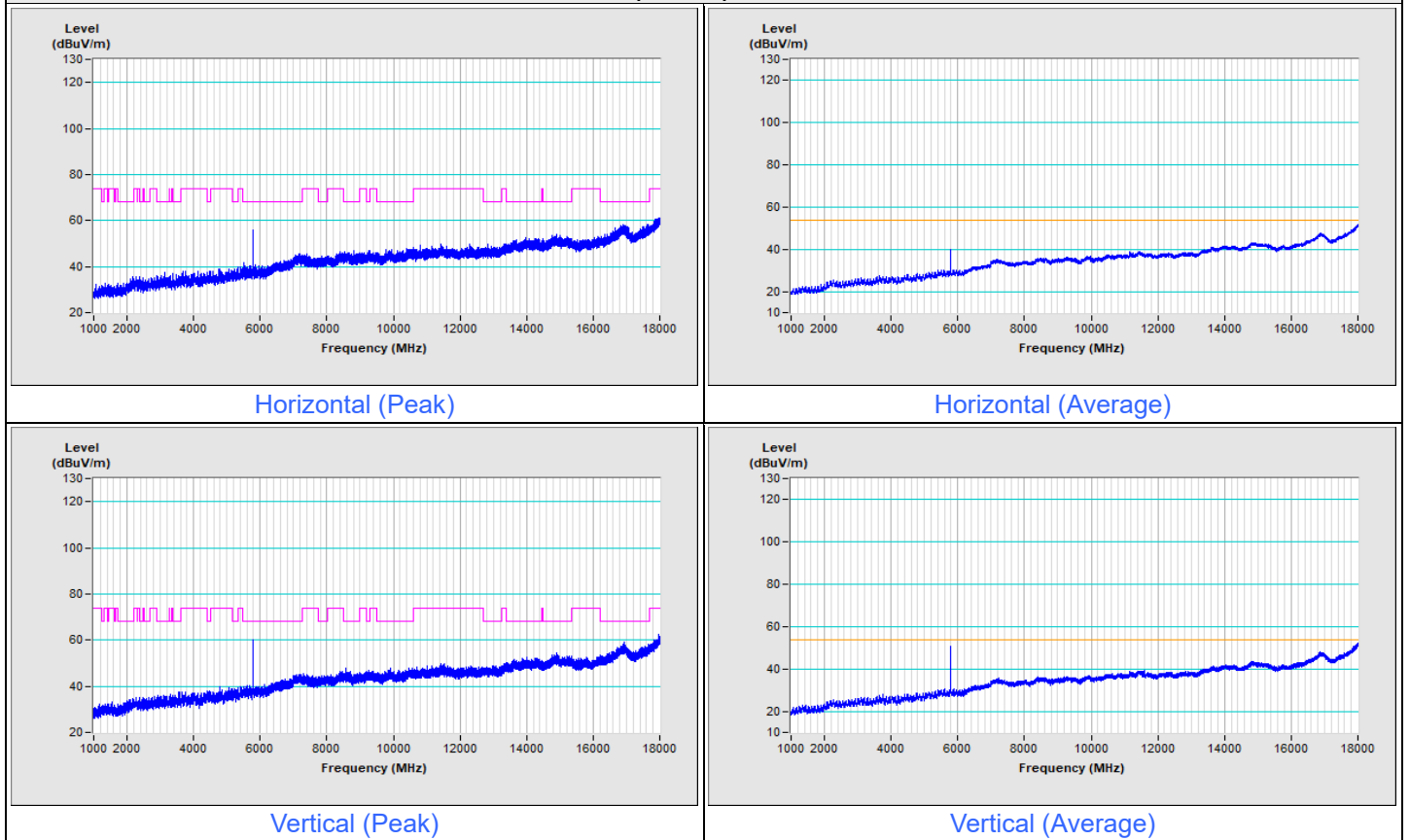


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11be (EHT20) Channel 157

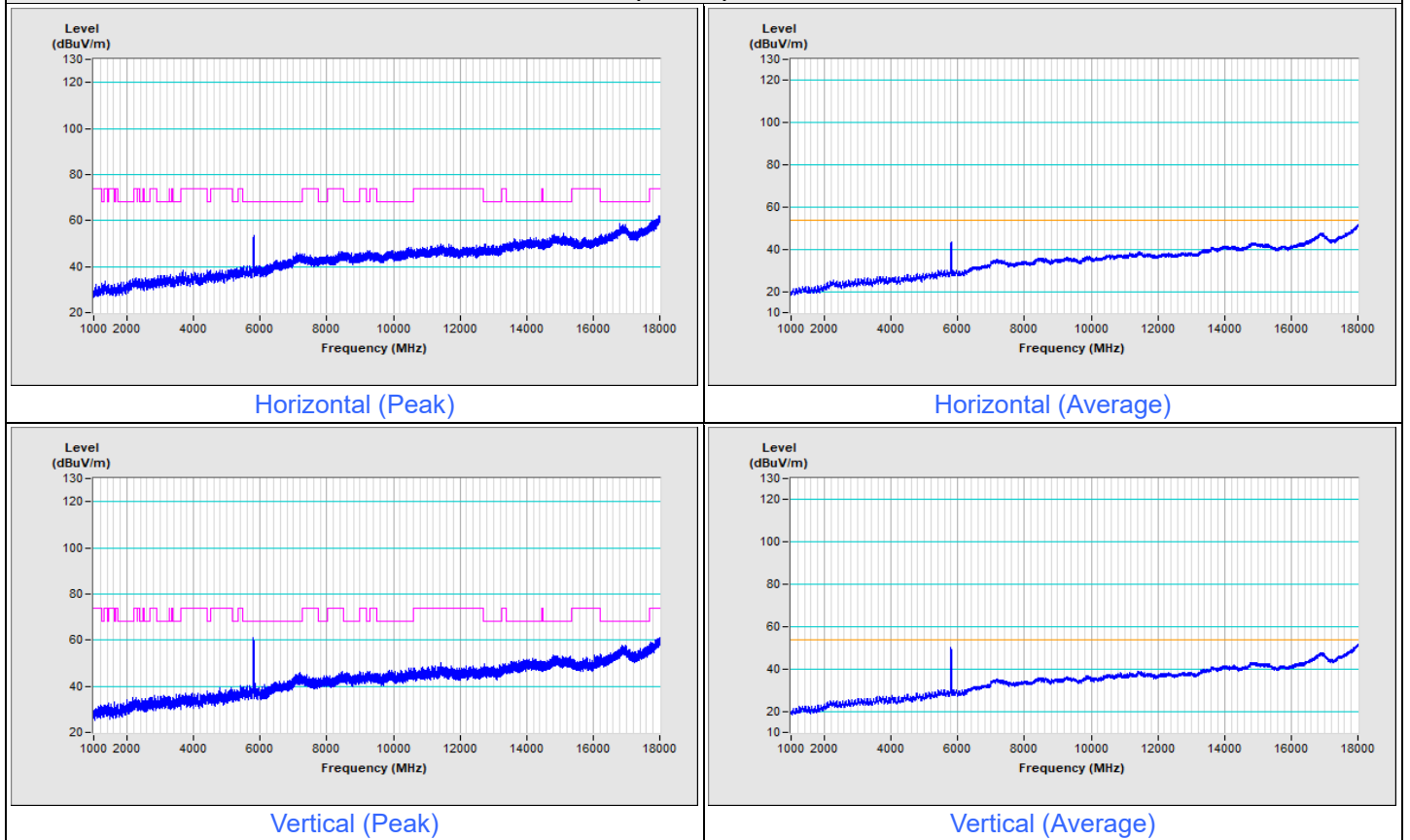


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11be (EHT40) Channel 159

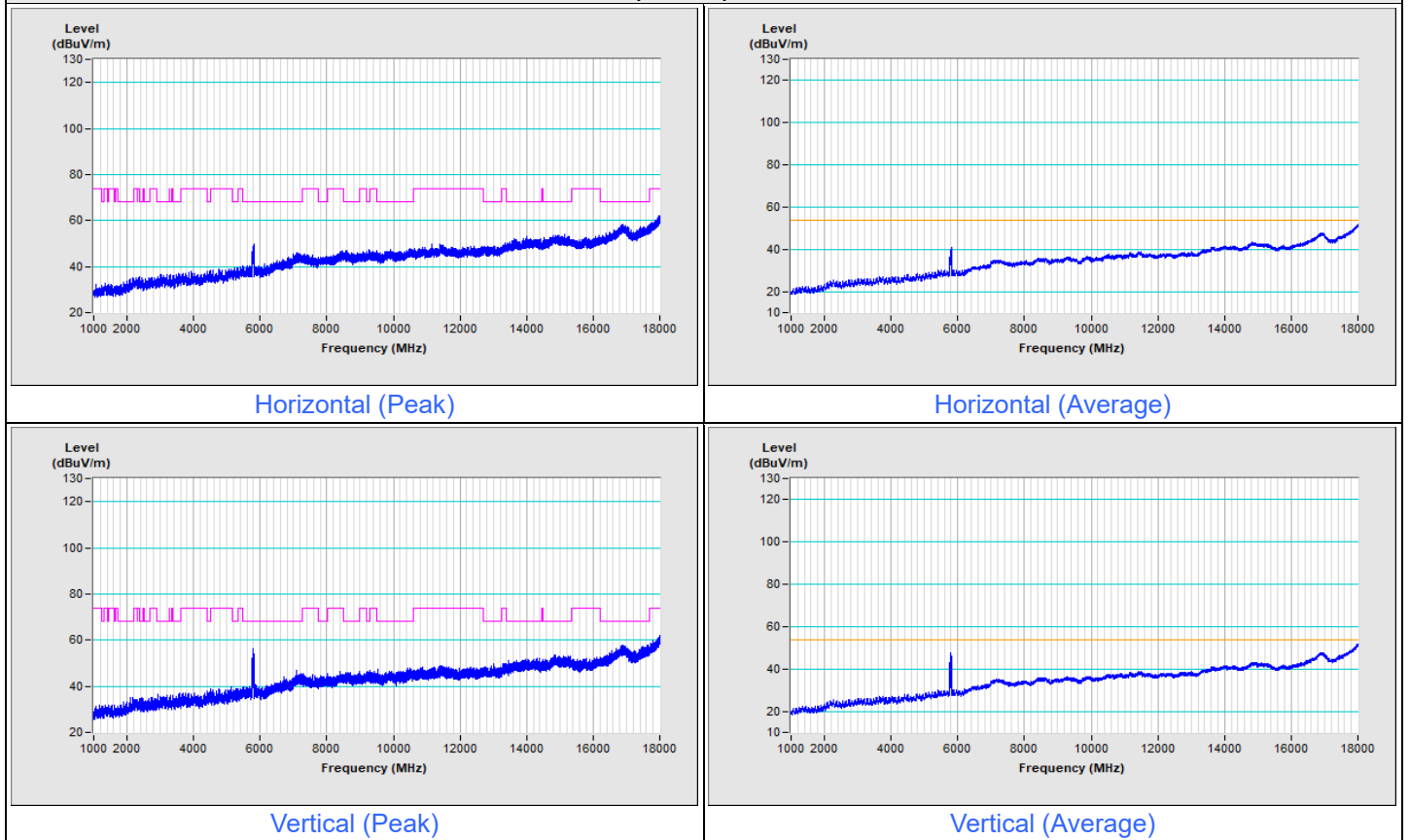


Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

Frequency Range	1 GHz ~ 18 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=3 MHz, DET=RMS
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802.11be (EHT80) Channel 155



Notes:

1. For radiated emission test data, complete spectral plots shall be presented in the report only for the worst-case scenarios of each mode within each operating frequency band.
2. The frequency range 18 GHz ~ 40 GHz: After investigation, no any emissions were found to exist, therefore they are not recorded in this report.

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

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

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

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Email: service.adt@bureauveritas.com

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

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

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