

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
Report No.: RFBCKS-WTW-P25080470-1
FCC ID: 2ABLK-GS4139E
Product: WiFi7 AP
Brand: GigaSpire
Model No.: 7u10t.2 GS4139E, 7u10txg.2 GS4139XG
Received Date: 2025/8/27
Test Date: 2025/9/2 ~ 2025/11/19
Issued Date: 2025/11/25
Applicant: Calix Inc.
Address: 1 Santana West 3155 Olsen Drive, Suite 450, San Jose, California 95117, United States
Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory
Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
FCC Registration / 723255 / TW2022
Designation Number:

Approved by: _____

Wen Yu / Assistant Manager

, Date: _____

2025/11/25

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Prepared by: Vito Lung / Specialist

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Release Control Record

Issue No.	Description	Date Issued
RFBCKS-WTW-P25080470-1	Original release.	2025/11/25

1 Certificate

Product: WiFi7 AP

Brand: GigaSpire

Test Model: 7u10t.2 GS4139E, 7u10txg.2 GS4139XG

Sample Status: Engineering sample

Applicant: Calix Inc.

Test Date: 2025/9/2 ~ 2025/11/19

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

Measurement ANSI C63.10-2020

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

KDB 662911 D01 Multiple Transmitter Output v02r01

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

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(2)	26 dB Bandwidth	-	For U-NII-2A U-NII-2C Band output power limitation is determined based on 26dBc bandwidth.
15.407(a)(1) 15.407(a)(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 -3.55 dB at 0.39219 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -3.5 dB at 60.14 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 5643.77 MHz
15.203	Antenna Requirement	Pass	Antenna connector is ipex(MHF) not a standard connector.

Notes:

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

2.1 Measurement Uncertainty

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

Measurement	Specification	Expanded Uncertainty (k=2) (±)
RF Output Power	-	1.1 dB
Power Spectral Density	-	1.3 dB
6 dB Bandwidth	-	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	7u10t.2 GS4139E, 7u10txg.2 GS4139XG
Status of EUT	Engineering sample
Power Supply Rating	12 Vdc from power adapter or 12 Vdc from UPS
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 600 Mbps 802.11ac: up to 1733.3 Mbps 802.11ax: up to 2401.9 Mbps 802.11be: up to 5764.8 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: 953.279 mW (29.79 dBm) 5.745 GHz ~ 5.825 GHz: 952.119 mW (29.79 dBm)
EUT Category	Indoor Access Point

Note:

1. All models are listed as below.

Brand	Model	Difference
GigaSpire	7u10t.2 GS4139E	GigaSpire 7u10t.2, GS4139E, Triband 2+4+4 Wi-Fi 7 RG/Mesh, 10GE WAN, 10GE + 2.5GE + 2 GE LAN, 1 POTS, USB, AM PA
	7u10txg.2 GS4139XG	GigaSpire 7u10txg.2, GS4139XG, Triband 2+4+4 Wi-Fi 7 RG/Mesh, XGS WAN, 10GE + 2.5GE + 2 GE LAN, 1 POTS, USB, AM PA

2. The EUT uses following accessories.

Item	Brand	Model	Specification
AC Adapter 1	AMIGO	AMS340-1204000FU	AC Input: 100-240V 50/60Hz 2.0A DC Output: 12V=4.0A DC Output Cable: 1.5m
AC Adapter 2	MOSO	MS-V4000R120-050A0-US	AC Input: 100-240V~50/60Hz 1.3A max DC Output: 12.0V=4.0A 48W DC Output Cable: 1.5m

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 refers 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_1	0	WNC	48XPAB0R	2.66	2.4~2.4835	Dipole	ipex(MHF)
2G_2	1	WNC	48XPAB0S	1.54	2.4~2.4835	Dipole	ipex(MHF)
5G_3	0	WNC	48XPAB09	4.03	5.15~5.25	Dipole	ipex(MHF)
				2.36	5.25~5.35		
				2.72	5.47~5.725		
				2.28	5.725~5.85		
5G_4	1	WNC	48XPAB09	3.33	5.15~5.25	Dipole	ipex(MHF)
				3.5	5.25~5.35		
				4.09	5.47~5.725		
				4.09	5.725~5.85		
5G_5	2	WNC	48XPAB09	4.27	5.15~5.25	Dipole	ipex(MHF)
				4.18	5.25~5.35		
				4.03	5.47~5.725		
				3.35	5.725~5.85		
5G_6	3	WNC	48XPAB09	3.18	5.15~5.25	Dipole	ipex(MHF)
				2.69	5.25~5.35		
				4.46	5.47~5.725		
				4.1	5.725~5.85		
6G_7	0	WNC	48XPAB0T	3.56	5.925~6.425	Dipole	ipex(MHF)
				2.74	6.425~6.525		
				3.47	6.525~6.875		
				3.47	6.875~7.125		
6G_8	1	WNC	48XPAB0U	2.99	5.925~6.425	Dipole	ipex(MHF)
				3.44	6.425~6.525		
				3.76	6.525~6.875		
				4.9	6.875~7.125		
6G_9	2	WNC	48XPAB0V	4.68	5.925~6.425	Dipole	ipex(MHF)
				4.71	6.425~6.525		
				4.86	6.525~6.875		
				4.66	6.875~7.125		
6G_10	3	WNC	48XPAB0W	3.77	5.925~6.425	Dipole	ipex(MHF)
				4.33	6.425~6.525		
				4.33	6.525~6.875		
				4.79	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	3.69
5.15 ~ 5.25	7
5.25 ~ 5.35	6.17
5.47 ~ 5.725	6.52
5.725 ~ 5.85	6.52

3. The EUT incorporates a MIMO function:

5 GHz Band		
Modulation Mode	TX & RX Configuration	
802.11a	4TX	4RX
802.11n (HT20)	4TX	4RX
802.11n (HT40)	4TX	4RX
802.11ac (VHT20)	4TX	4RX
802.11ac (VHT40)	4TX	4RX
802.11ac (VHT80)	4TX	4RX
802.11ax (HE20)	4TX	4RX
802.11ax (HE40)	4TX	4RX
802.11ax (HE80)	4TX	4RX
802.11be (EHT20)	4TX	4RX
802.11be (EHT40)	4TX	4RX
802.11be (EHT80)	4TX	4RX

Note:

1. All of modulation mode support beamforming function except 802.11b/g 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: AMS340-1204000FU / MS-V4000R120-050A0-US / modular 8Pin DC input. 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: MS-V4000R120-050A0-US 2. Lying/ Standing Worst Condition: Standing

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

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
RF Output Power	A	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	A	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	A	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	A	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	A, B	802.11be (EHT40)	CDD	46	BPSK	MCS0
Unwanted Emissions below 1 GHz	A, B	802.11be (EHT40)	CDD	46	BPSK	MCS0

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter
Unwanted Emissions above 1 GHz	A	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
EUT Configure Mode:	A	7u10t.2 GS4139E				
	B	7u10txg.2 GS4139XG				
Note: Partial RU (resource unit) and channel puncturing mechanisms are not supported.						

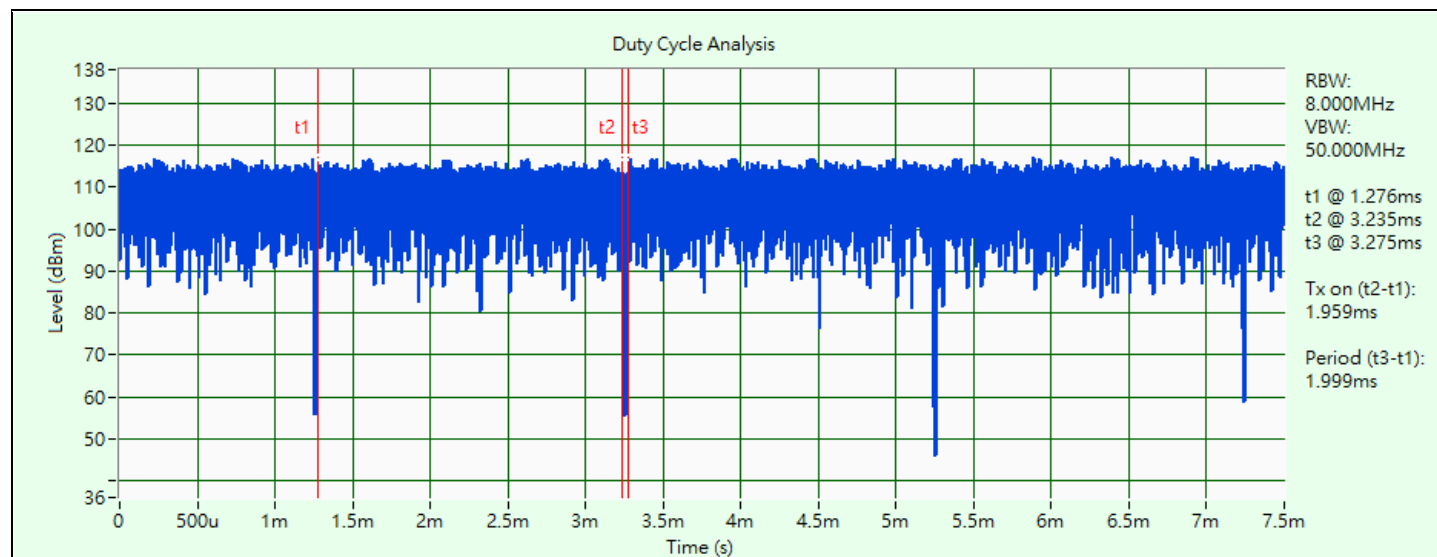
3.5 Duty Cycle of Test Signal

802.11a: Duty cycle = 1.959 ms / 1.999 ms x 100% = 98.0%

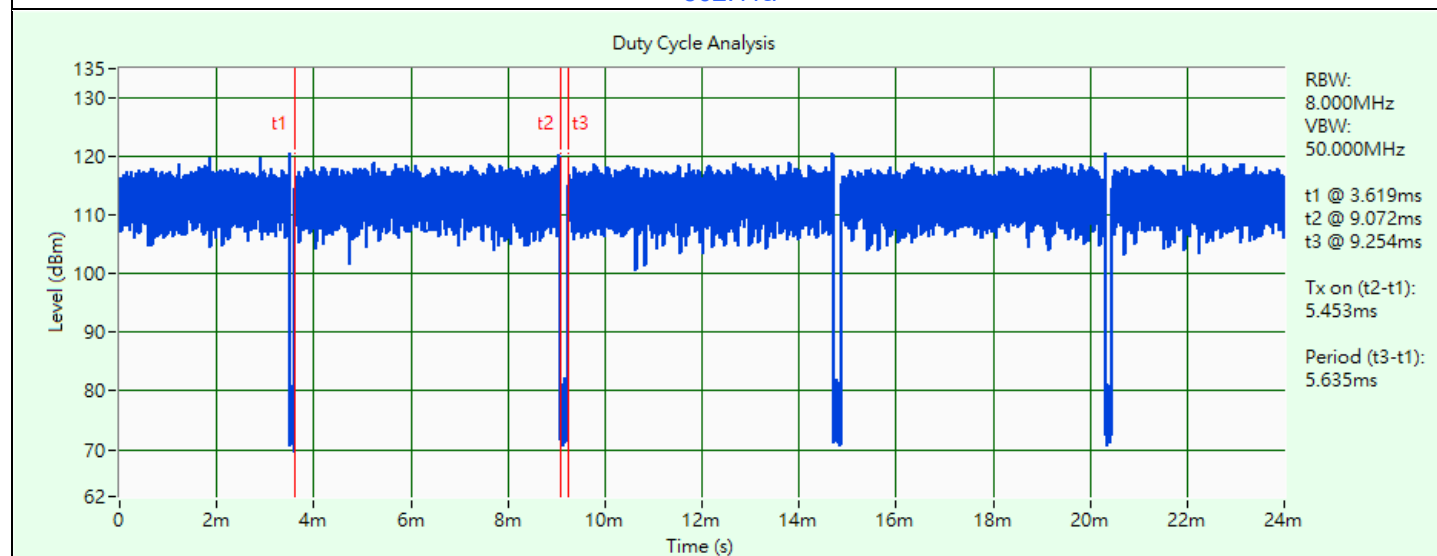
802.11be (EHT20): Duty cycle = 5.453 ms / 5.635 ms x 100% = 96.8%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.14$ dB

802.11be (EHT40): Duty cycle = 5.453 ms / 5.599 ms x 100% = 97.4%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.11$ dB

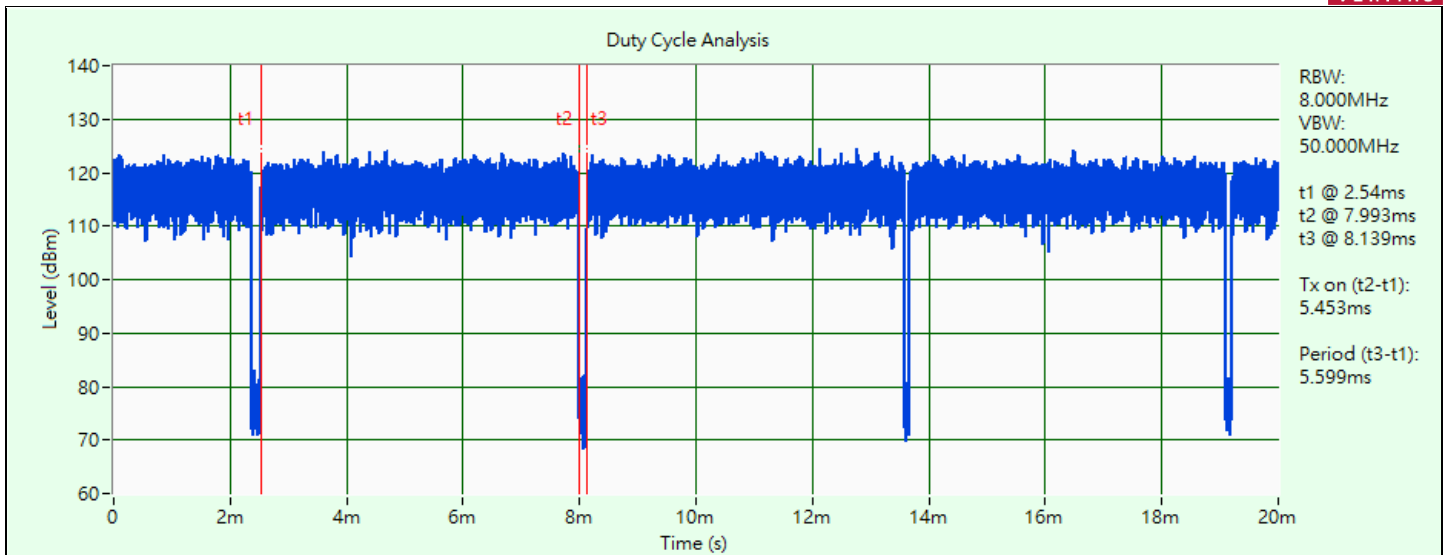
802.11be (EHT80): Duty cycle = 5.452 ms / 5.608 ms x 100% = 97.2%, duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.12$ dB



802.11a



802.11be (EHT20)



802.11be (EHT40)



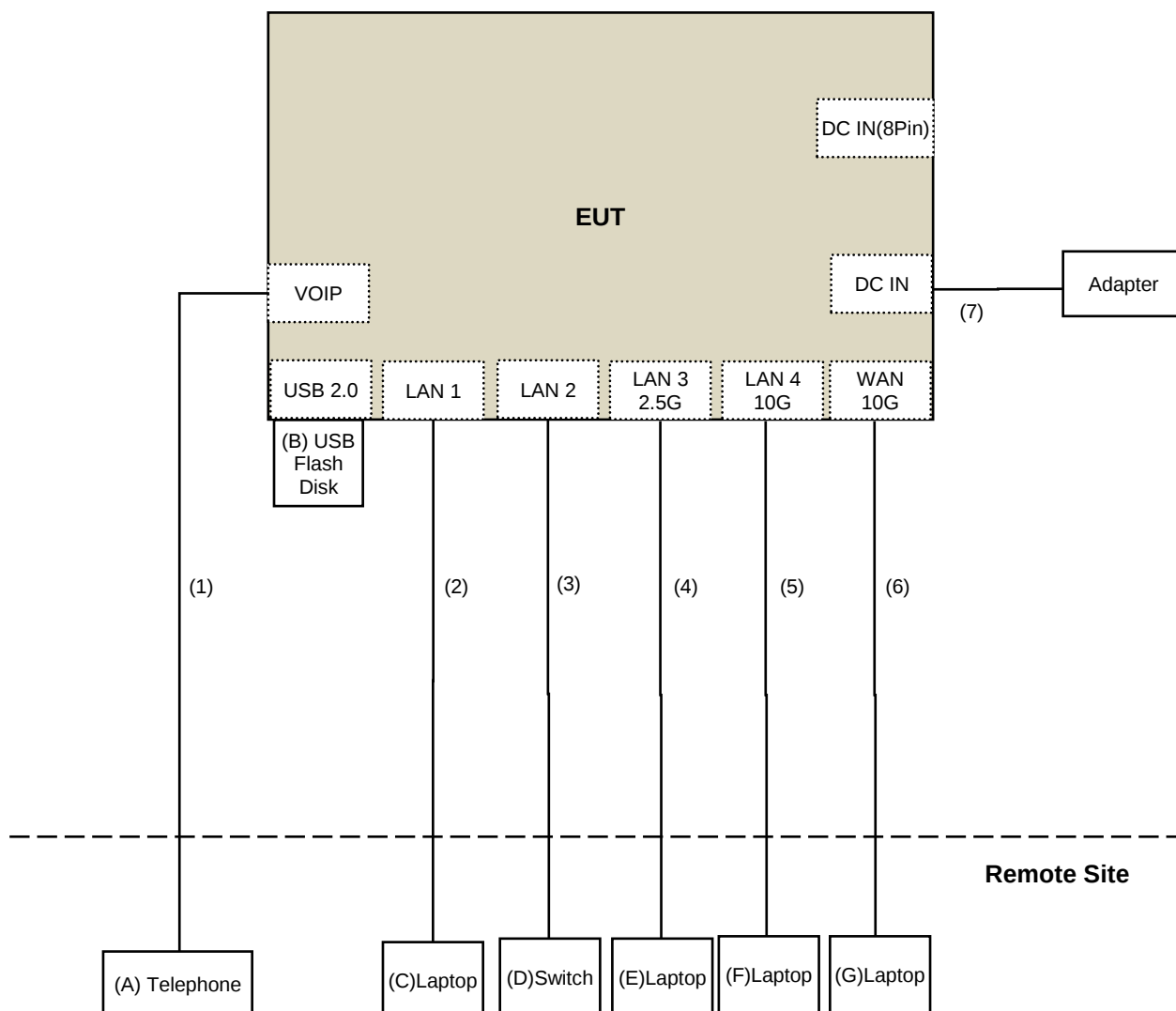
802.11be (EHT80)

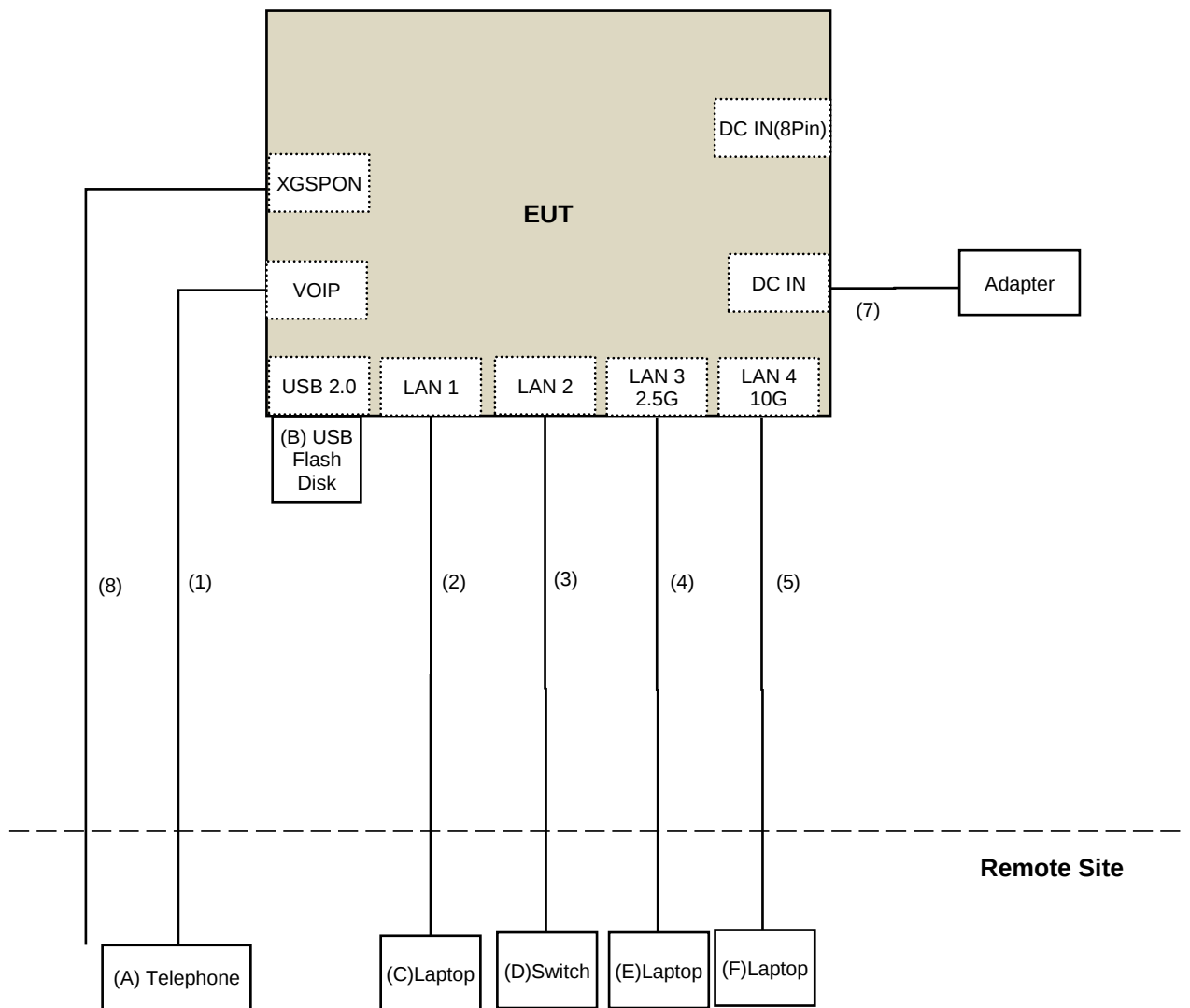
3.6 Test Program Used and Operation Descriptions

Controlling software (QSPR v6.00.00114.1) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

Mode A





3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Telephone	Wonder	WD-303	N/A	N/A	Provided by Lab
B	USB Flash Disk	SanDisk	SDDDC3-032G-I35NB	BM22065835SW	N/A	Provided by Lab
C	Laptop	Acer	TMP214	N/A	N/A	Supplied by applicant
D	Switch	D-Link	DGS-1005D	DR8WC92000523	N/A	Provided by Lab
E	Laptop	Lenovo	L480	RF1PRC03	N/A	Provided by Lab
F	Laptop	DELL	E6230	H86M3X1	N/A	Provided by Lab
G	Laptop	DELL	E6230	1BCMLX1	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	RJ-11 Cable	1	10	No	0	Provided by Lab
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
6	RJ-45 Cable	1	10	No	0	Provided by Lab
7	DC Cable	1	1.5	No	0	Supplied by applicant
8	Fiber 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	2026/5/22
Pulse Power Sensor Anritsu	MA2411B	1726434	2025/6/3	2026/6/2
RF Power Meter Anritsu	ML2495A	1529002	2025/6/3	2026/6/2

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/11/19

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	2026/5/22
MXA Signal Analyzer Keysight	N9020B	MY60112408	2025/3/12	2026/3/11
Software	ADT_RF Test Software V8	N/A	N/A	N/A

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/11/19

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	2025/5/21	2026/5/20
Fixed Attenuator STI	STI02-2200-10	005	2025/2/17	2026/2/16
LISN R&S	ESH3-Z5	835239/001	2025/3/27	2026/3/26
		848773/004	2025/10/3	2026/10/2
RF Coaxial Cable JYEBAO	5D-FB	COCCAB-001	2025/2/17	2026/2/16
Software BVADT	BVADT_Cond_V7.3.7.4	N/A	N/A	N/A

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2025/11/17 ~ 2025/11/18

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	2025/2/15	2026/2/14
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	2025/2/15	2026/2/14
	EMC001340	980142	2025/2/17	2026/2/16
RF Coaxial Cable mTJ	100100-CFD400LW-200	CFD400-200	2025/2/15	2026/2/14
	100100-CFD400LW-400	CFD400-400	2025/2/15	2026/2/14
	100100-CFD400LW-800	CFD400-800	2025/2/15	2026/2/14
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2025/11/17

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	2024/11/10 2025/11/9	2025/11/9 2026/11/8
	BBHA 9170	9170-739	2025/11/9	2026/11/8
MXA Signal Analyzer Keysight	N9020B	MY60112410	2025/3/17	2026/3/16
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	2025/1/24	2026/1/23
	EMC102-KM-KM-4000	200214	2025/1/24	2026/1/23
	EMC104-SM-SM-1200	160922	2025/1/14	2026/1/13
	EMC104-SM-SM-2000	180502	2025/1/14	2026/1/13
	EMC104-SM-SM-6000	210704	2024/10/30 2025/10/22	2025/10/29 2026/10/21
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2025/9/2 ~ 2025/11/19

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.		

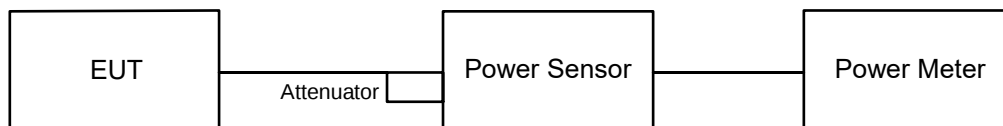
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup

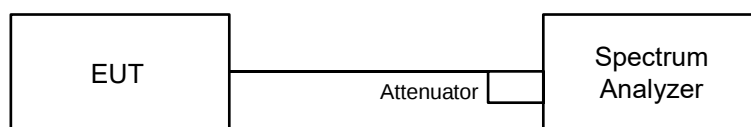


6.1.2 Test Procedure

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

6.2 Power Spectral Density

6.2.1 Test Setup



6.2.2 Test Procedure

For specified measurement bandwidth 1 MHz:

Method SA-1

- Set span to encompass the entire 99% OBW of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS.
- 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 $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$.

- d. 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.)
- e. Sweep time = auto, trigger set to “free run”.
- f. Trace average at least 100 traces in power averaging mode.
- g. Record the max value.

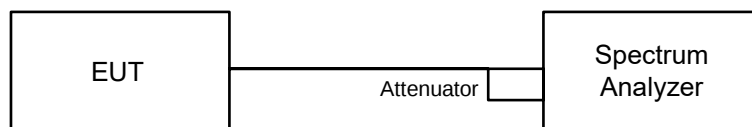
For specified measurement bandwidth 500 kHz:

Method SA-2

- a. Measure the duty cycle of the transmitter output signal.
- b. Set span to encompass the entire 99% OBW of the signal.
- c. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS.
- d. Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where $\text{BWCF} = 10\log(500 \text{ kHz}/300 \text{ kHz})$.
- e. 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.)
- f. Sweep time = auto, trigger set to “free run”.
- g. Trace average at least 100 traces in power averaging mode.
- h. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- i. Record the max value and add $10 \log (1/\text{duty cycle})$.

6.3 6 dB Bandwidth

6.3.1 Test Setup

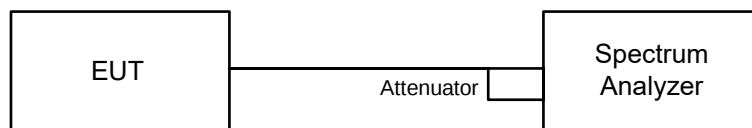


6.3.2 Test Procedure

- a. Set RBW = 100 kHz.
- b. Set the VBW $\geq [3 \times \text{RBW}]$.
- c. Detector = peak.
- d. Trace mode = max-hold.
- e. Sweep = No faster than coupled (auto) time.
- f. Allow the trace to stabilize.
- g. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.4 Occupied Bandwidth

6.4.1 Test Setup



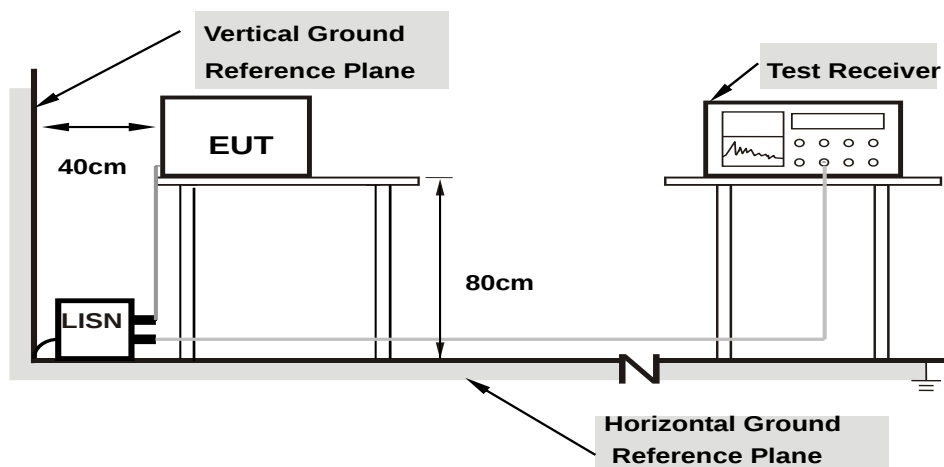
6.4.2 Test Procedure

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

- 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.
- 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.
- 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.
- Step a) through step c) might require iteration to adjust within the specified range.
- 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.
- 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

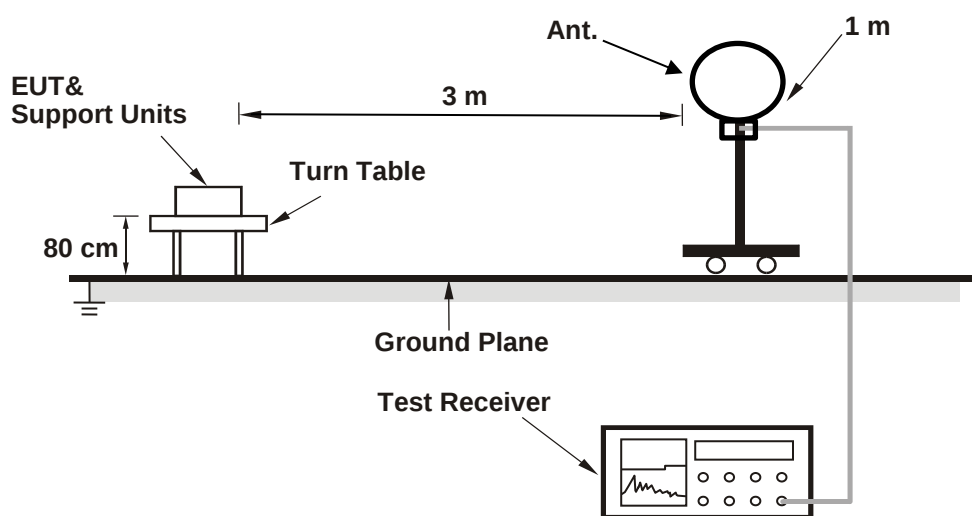
- Exploratory ac power-line conducted emission measurements: The EUT shall be operated on the mid channel and in the mode with highest output power unless the fundamental operates in the AC power-line emission test range then the EUT shall be operated in the range of typical modes of operation.
- The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

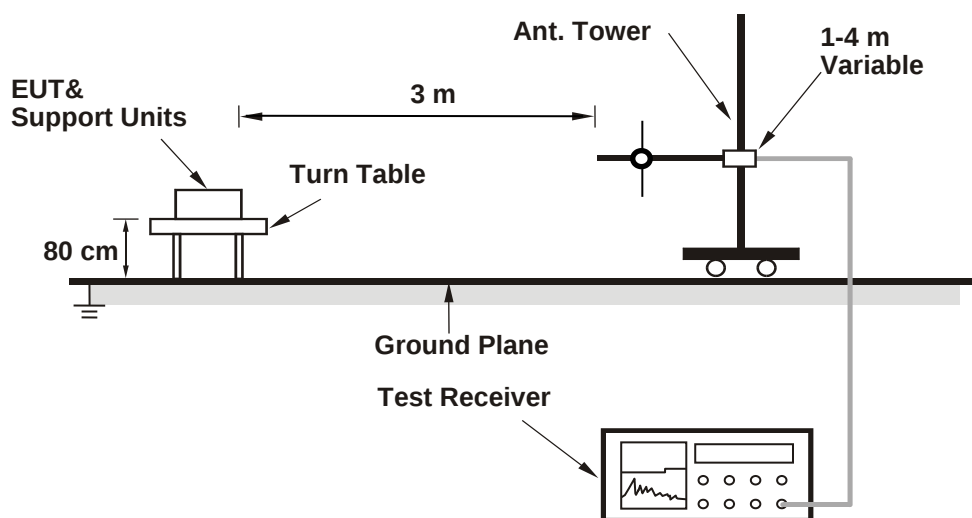
6.6 Unwanted Emissions below 1 GHz

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, 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

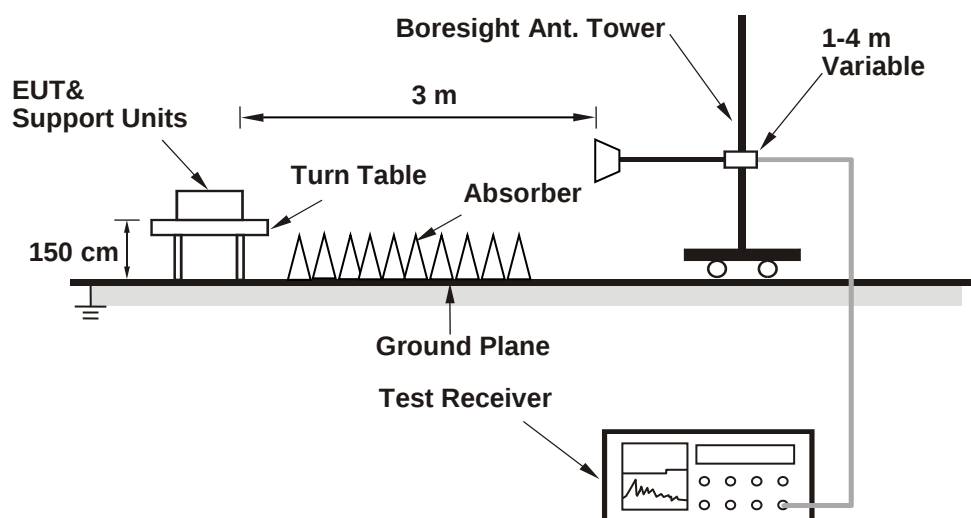
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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.
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:	22°C, 66% RH	Tested By:	Katina Lu
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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	Chain 2	Chain 3				
36	5180	20.01	20.68	21.24	21.13	479.944	26.81	30	Pass
40	5200	22.81	22.54	22.65	22.28	723.58	28.59	30	Pass
48	5240	23.77	23.62	23.74	23.56	931.955	29.69	30	Pass
149	5745	23.44	23.76	23.80	23.42	918.154	29.63	30	Pass
157	5785	23.94	23.69	23.76	23.67	952.119	29.79	30	Pass
165	5825	23.94	23.63	23.51	23.65	934.545	29.71	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.27 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the maximum gain is 4.1 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	Chain 2	Chain 3				
36	5180	20.07	20.12	20.19	20.75	427.749	26.31	30	Pass
40	5200	22.85	22.64	22.74	22.36	736.525	28.67	30	Pass
48	5240	23.43	23.71	23.93	23.87	946.209	29.76	30	Pass
149	5745	21.35	21.58	21.41	21.27	552.662	27.42	30	Pass
157	5785	23.35	23.47	23.57	23.48	888.956	29.49	30	Pass
165	5825	23.38	23.33	23.34	23.52	873.729	29.41	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.27 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the maximum gain is 4.1 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	Chain 2	Chain 3				
38	5190	19.28	19.34	19.41	19.20	341.098	25.33	30	Pass
46	5230	23.92	23.77	23.80	23.59	953.279	29.79	30	Pass
151	5755	21.91	21.51	21.80	21.43	587.169	27.69	30	Pass
159	5795	22.46	22.38	22.46	22.56	705.679	28.49	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.27 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the maximum gain is 4.1 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	Chain 2	Chain 3				
42	5210	17.94	18.22	18.17	18.14	259.382	24.14	30	Pass
155	5775	21.53	21.50	21.58	21.56	570.585	27.56	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-1, the maximum gain is 4.27 dBi $\leq$ 6 dBi, so the output power limit shall not be reduced.
3. For U-NII-3, the maximum gain is 4.1 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	Chain 2	Chain 3				
36	5180	19.62	19.82	19.82	20.31	390.901	25.92	29	Pass
40	5200	22.50	22.41	22.42	21.93	682.546	28.34	29	Pass
48	5240	21.74	22.58	22.40	22.63	687.425	28.37	29	Pass
149	5745	21.07	21.42	21.38	21.35	540.476	27.33	29.48	Pass
157	5785	21.65	21.57	21.70	21.67	584.57	27.67	29.48	Pass
165	5825	21.33	21.72	21.75	21.83	586.454	27.68	29.48	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 7 dBi $>$ 6 dBi, so the output power limit shall be reduced to $30 - (7 - 6) = 29$ dBm.
3. For U-NII-3, the directional gain is 6.52 dBi $>$ 6 dBi, so the output power limit shall be reduced to $30 - (6.52 - 6) = 29.48$ dBm.

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	Chain 2	Chain 3				
38	5190	16.51	16.61	16.54	16.74	182.873	22.62	29	Pass
46	5230	21.73	21.33	21.36	21.31	556.748	27.46	29	Pass
151	5755	21.36	21.20	21.36	21.06	533.015	27.27	29.48	Pass
159	5795	21.61	21.40	21.58	21.59	571.007	27.57	29.48	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 7 dBi > 6 dBi, so the output power limit shall be reduced to $30-(7-6) = 29$ dBm.
3. For U-NII-3, the directional gain is 6.52 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.52-6) = 29.48$ dBm.

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	Chain 2	Chain 3				
42	5210	16.70	16.92	16.76	16.81	191.375	22.82	29	Pass
155	5775	21.43	21.46	21.53	21.42	559.862	27.48	29.48	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 7 dBi > 6 dBi, so the output power limit shall be reduced to $30-(7-6) = 29$ dBm.
3. For U-NII-3, the directional gain is 6.52 dBi > 6 dBi, so the output power limit shall be reduced to $30-(6.52-6) = 29.48$ dBm.

7.2 Power Spectral Density

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	22°C, 66% RH	Tested By:	Katina Lu
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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	Chain 2	Chain 3			
36	5180	5.48	5.56	5.43	5.57	11.53	16	Pass
40	5200	8.64	8.54	8.79	8.32	14.60	16	Pass
48	5240	9.42	9.49	9.31	9.19	15.37	16	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 7 dBi > 6 dBi, so the power density limit shall be reduced to $17 - (7 - 6) = 16$ dBm/MHz.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	4.88	4.85	4.87	5.10	0.14	11.09	16	Pass
40	5200	6.80	6.85	7.00	7.13	0.14	13.11	16	Pass
48	5240	8.19	8.43	8.25	8.41	0.14	14.48	16	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 7 dBi > 6 dBi, so the power density limit shall be reduced to $17 - (7 - 6) = 16$ dBm/MHz.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	3.01	2.88	3.09	2.87	0.11	9.09	16	Pass
46	5230	6.72	6.92	6.89	6.82	0.11	12.97	16	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7 dBi > 6 dBi, so the power density limit shall be reduced to $17-(7-6) = 16$ dBm/MHz.

802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)				Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	-2.12	-1.43	-1.58	-1.91	0.12	4.39	16	Pass

Notes:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-1, the directional gain is 7 dBi > 6 dBi, so the power density limit shall be reduced to $17-(7-6) = 16$ dBm/MHz.

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)				Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3				
149	5745	4.23	4.47	4.26	4.63	10.42	12.64	29.48	Pass
157	5785	4.75	4.90	4.80	4.99	10.88	13.10	29.48	Pass
165	5825	5.40	5.19	4.97	5.28	11.23	13.45	29.48	Pass

Notes:

- Method E) 2) b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
- Directional gain is the measured value according to KDB 662911 D03 Method of MIMO Antenna Gain Measurement.
- For U-NII-3, the directional gain is 6.52 dBi > 6 dBi, so the power density limit shall be reduced to $30-(6.52-6) = 29.48$ dBm/500kHz.

802.11be (EHT20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
149	5745	1.00	1.09	1.14	1.24	7.14	0.14	9.50	29.48	Pass
157	5785	3.48	3.39	3.58	3.65	9.55	0.14	11.91	29.48	Pass
165	5825	4.05	3.95	3.85	4.22	10.04	0.14	12.40	29.48	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 6.52 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.52 - 6) = 29.48$ dBm/500kHz.

802.11be (EHT40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
151	5755	-0.09	-0.16	0.03	-0.33	5.89	0.11	8.22	29.48	Pass
159	5795	0.74	0.87	0.69	0.54	6.73	0.11	9.06	29.48	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 6.52 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.52 - 6) = 29.48$ dBm/500kHz.

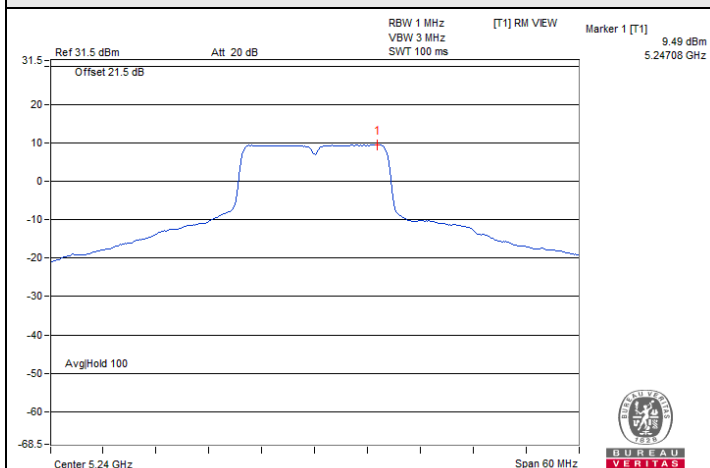
802.11be (EHT80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/300kHz)				Total PSD w/o Duty Factor (dBm/300kHz)	Duty Factor (dB)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3					
155	5775	-3.63	-3.50	-3.51	-3.41	2.51	0.12	4.85	29.48	Pass

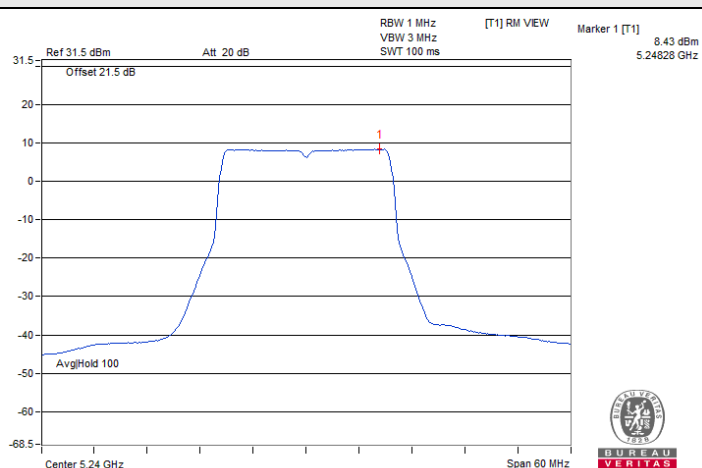
Notes:

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 6.52 dBi > 6 dBi, so the power density limit shall be reduced to $30 - (6.52 - 6) = 29.48$ dBm/500kHz.

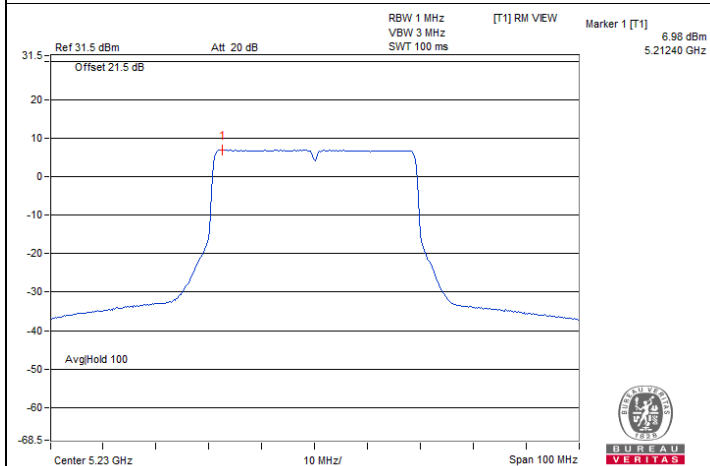
Spectrum Plot of Maximum Value



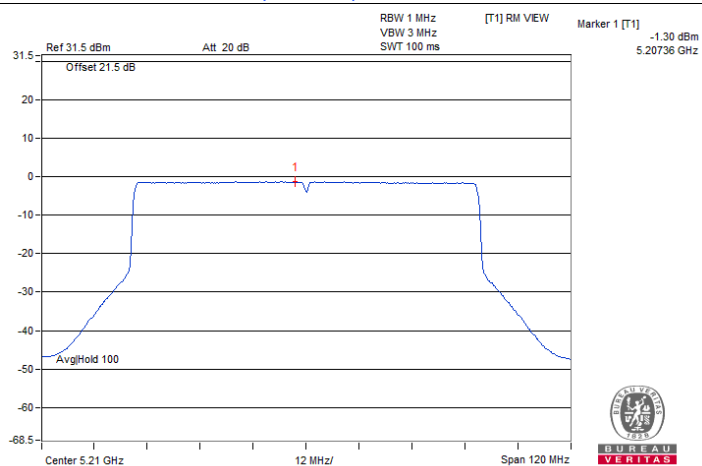
802.11a / Chain 1 : CH 48



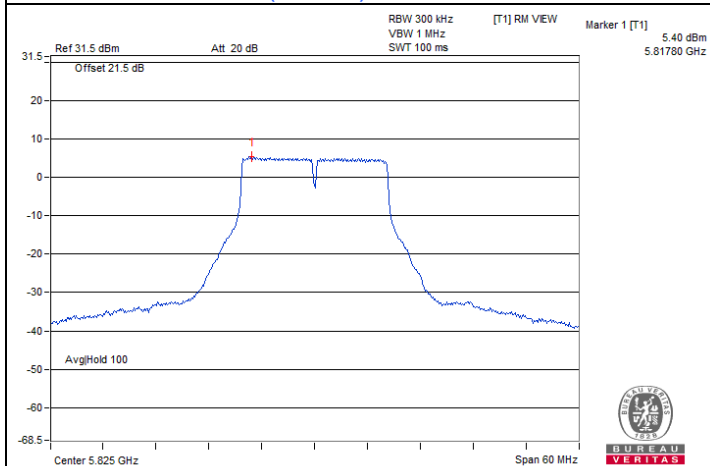
802.11be (EHT20) / Chain 1 : CH 48



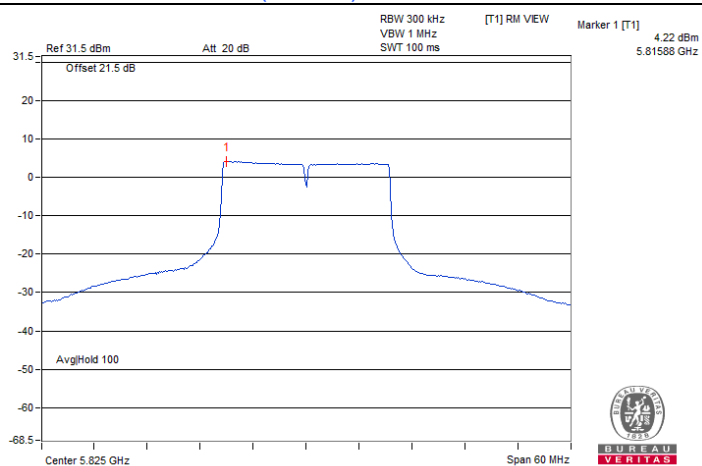
802.11be (EHT40) / Chain 1 : CH 46



802.11be (EHT80) / Chain 1 : CH 42

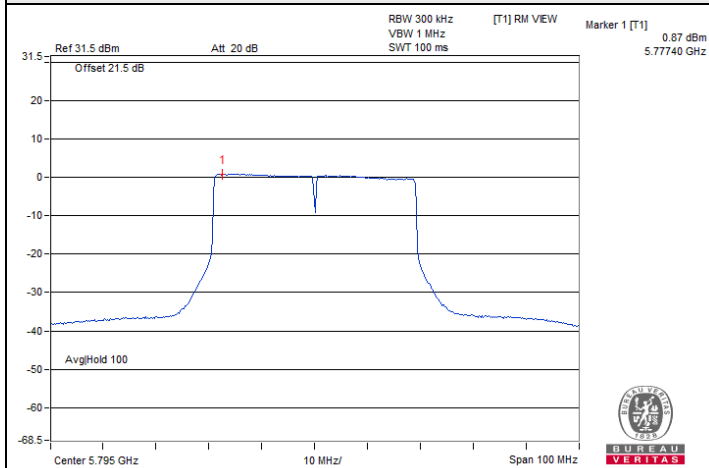


802.11a / Chain 0 : CH 165

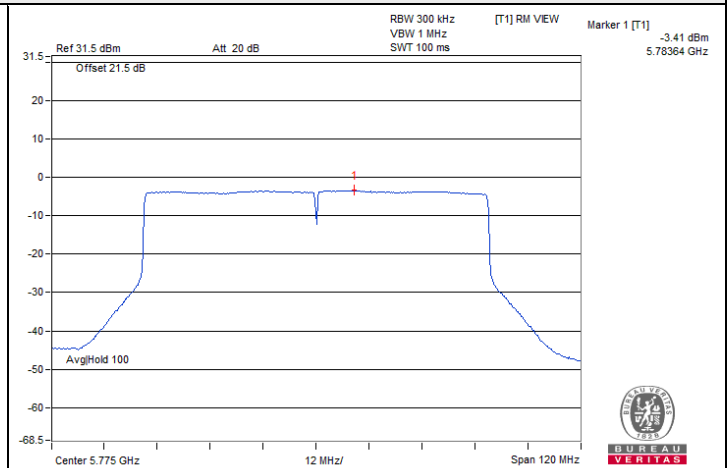


802.11be (EHT20) / Chain 3 : CH 165

Spectrum Plot of Maximum Value



802.11be (EHT40) / Chain 1 : CH 159



802.11be (EHT80) / Chain 3 : CH 155

7.3 6 dB Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	22°C, 66% RH	Tested By:	Katina Lu
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802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	16.38	16.35	16.38	16.42	0.5	Pass
157	5785	16.40	16.37	16.35	16.40	0.5	Pass
165	5825	16.37	16.34	16.35	16.35	0.5	Pass

802.11be (EHT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	18.94	19.10	19.10	18.98	0.5	Pass
157	5785	19.02	19.07	19.12	19.07	0.5	Pass
165	5825	19.08	19.12	19.06	18.79	0.5	Pass

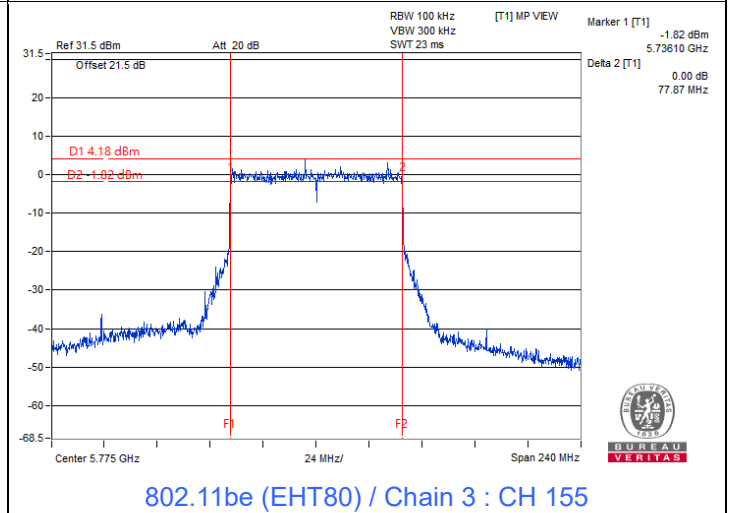
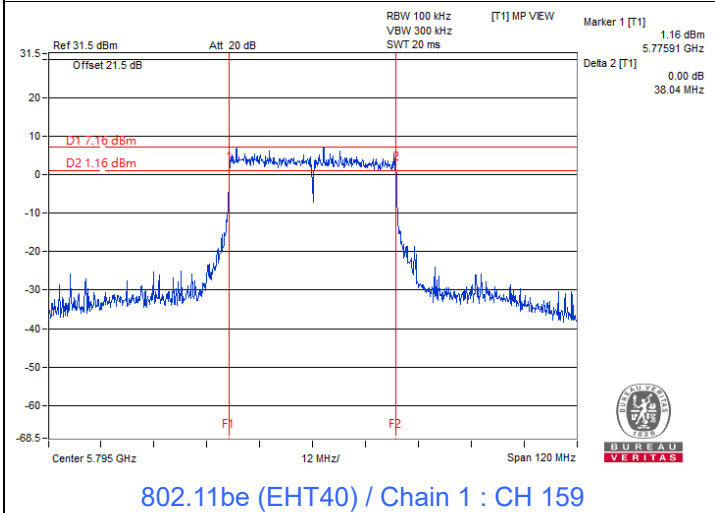
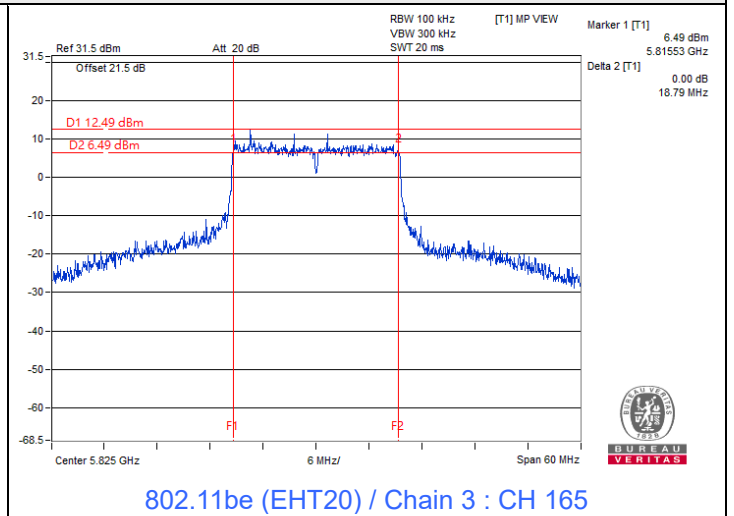
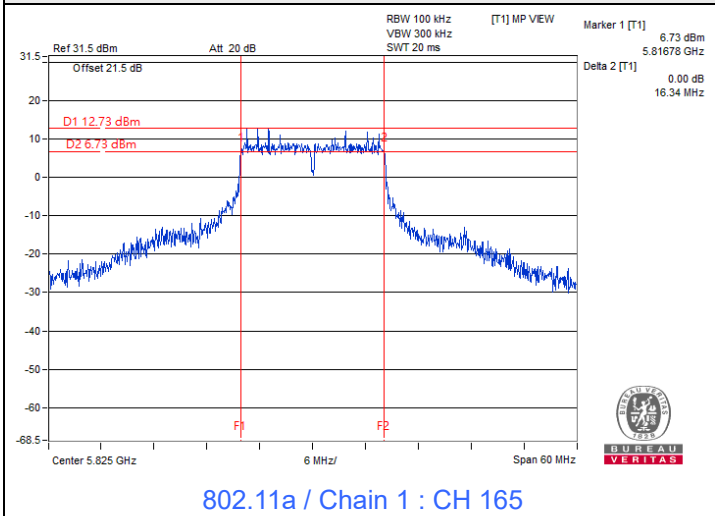
802.11be (EHT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
151	5755	38.27	38.17	38.25	38.17	0.5	Pass
159	5795	38.25	38.04	38.21	38.13	0.5	Pass

802.11be (EHT80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)				Minimum Limit (MHz)	Test Result
		Chain 0	Chain 1	Chain 2	Chain 3		
155	5775	78.06	78.26	78.13	77.87	0.5	Pass

Spectrum Plot of Minimum Value



7.4 Occupied Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	22°C, 66% RH	Tested By:	Katina Lu
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802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	16.80	16.74	16.86	16.74
40	5200	16.86	16.74	16.86	16.80
48	5240	16.80	16.80	16.74	16.68
149	5745	16.86	16.80	16.80	16.80
157	5785	17.22	17.04	17.04	16.98
165	5825	19.14	18.36	18.36	17.88

802.11be (EHT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	19.08	19.08	19.08	19.08
40	5200	19.08	19.02	19.08	19.08
48	5240	19.08	19.08	19.02	18.96
149	5745	19.08	19.02	19.02	19.08
157	5785	19.08	19.08	19.08	19.08
165	5825	19.32	19.14	19.26	19.20

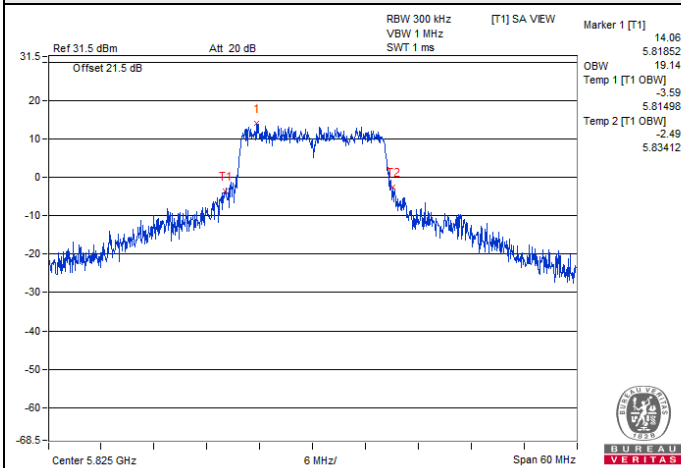
802.11be (EHT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	38.16	38.40	38.16	38.16
46	5230	38.16	38.28	38.40	38.16
151	5755	38.16	38.16	38.28	38.16
159	5795	38.16	38.28	38.16	38.16

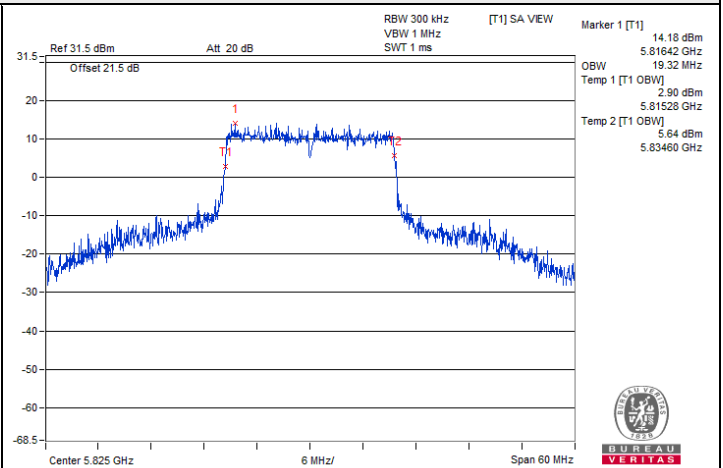
802.11be (EHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	77.28	77.28	77.28	77.52
155	5775	77.28	77.52	77.52	77.76

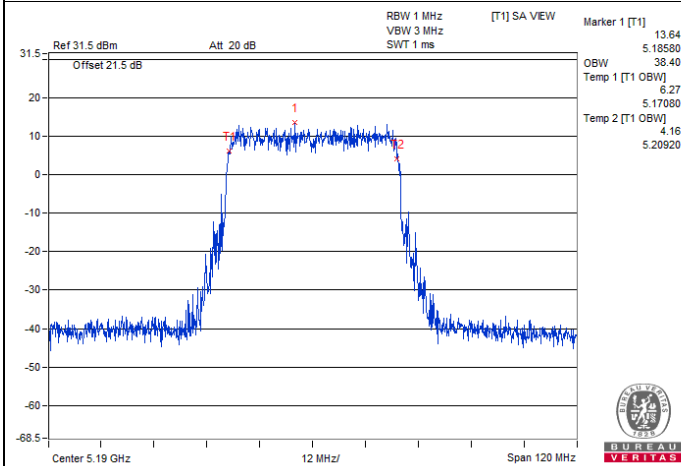
Spectrum Plot of Maximum Value



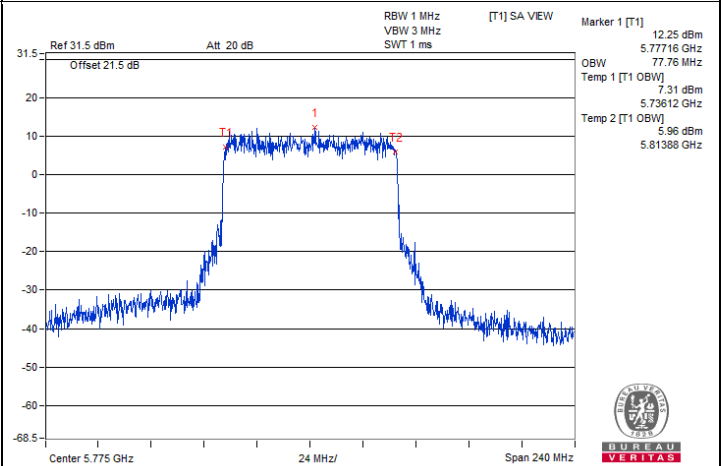
802.11a / Chain 0 : CH 165



802.11be (EHT20) / Chain 0 : CH 165

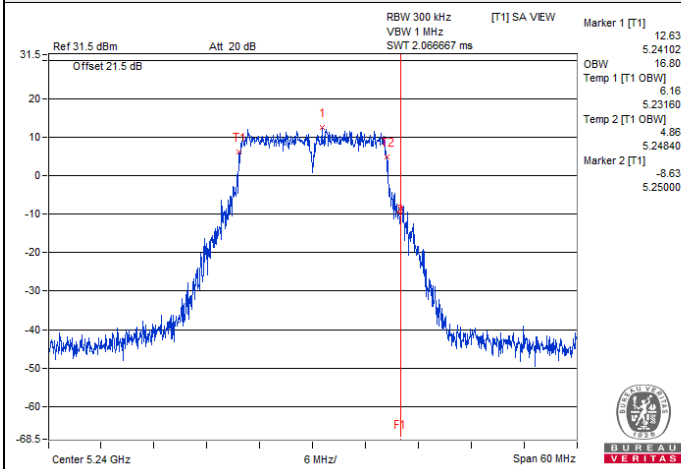


802.11be (EHT40) / Chain 1 : CH 38

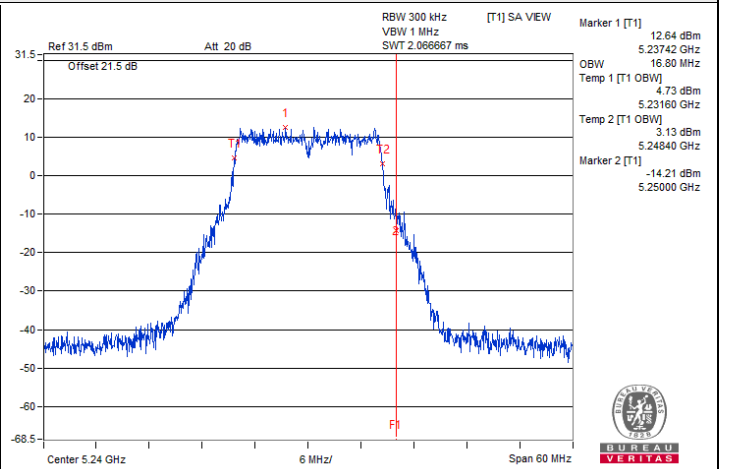


802.11be (EHT80) / Chain 3 : CH 155

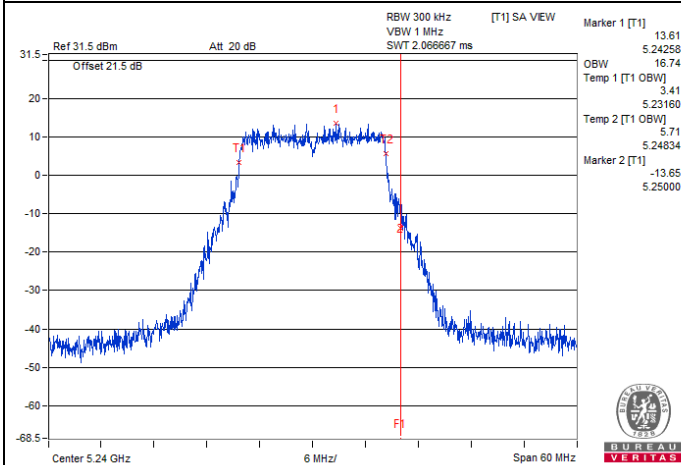
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



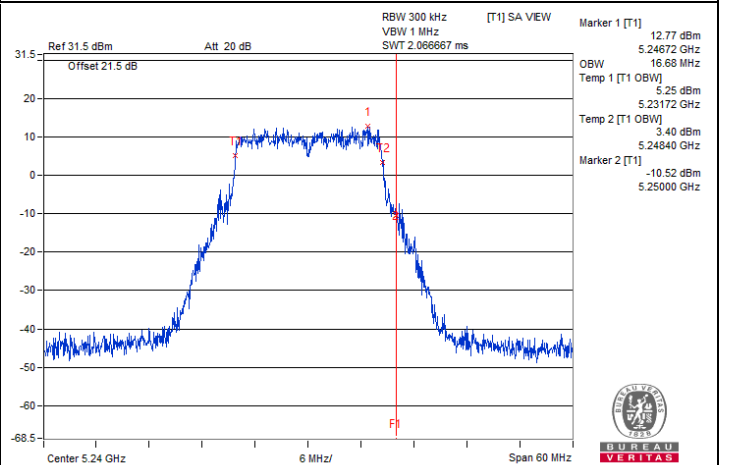
802.11a / Chain 0 : CH 48



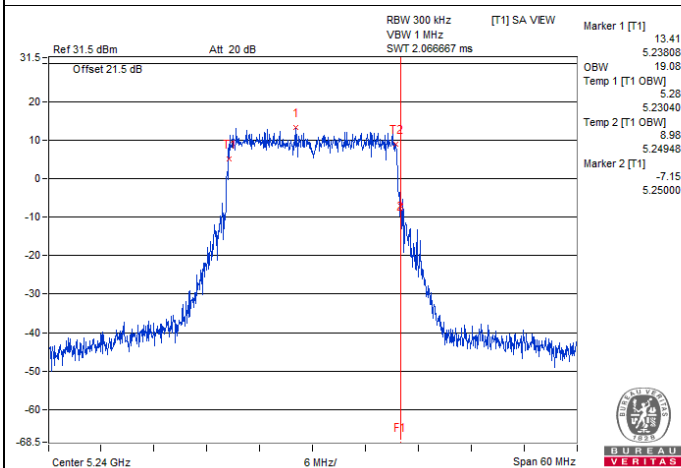
802.11a / Chain 1 : CH 48



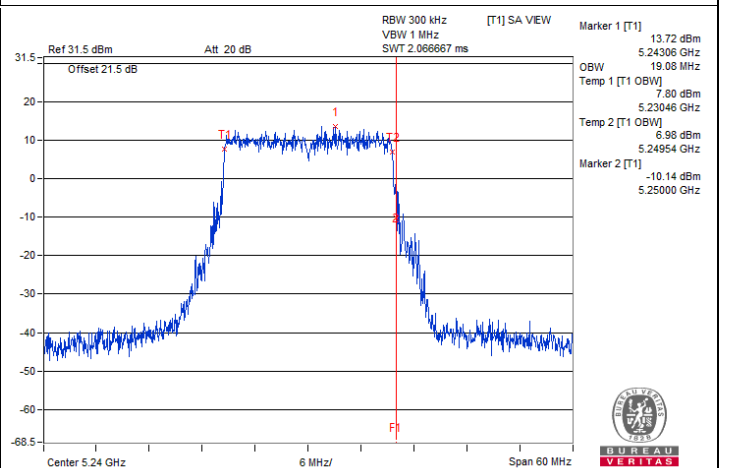
802.11a / Chain 2 : CH 48



802.11a / Chain 3 : CH 48

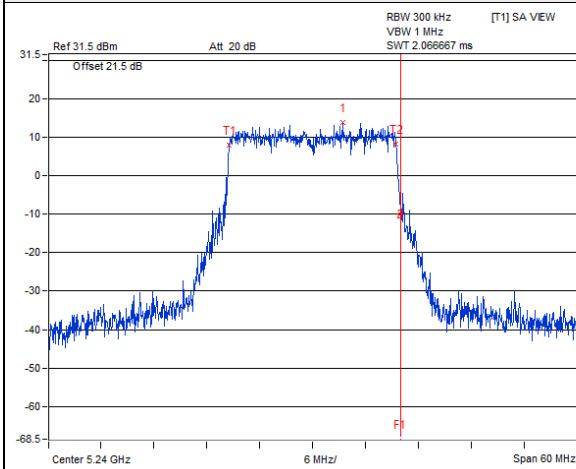


802.11be (EHT20) / Chain 0 : CH 48

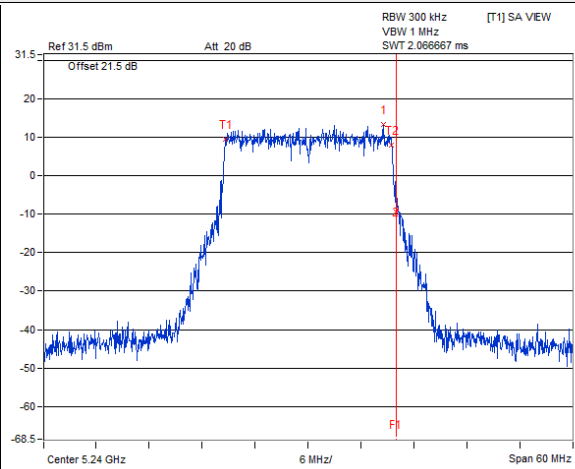


802.11be (EHT20) / Chain 1 : CH 48

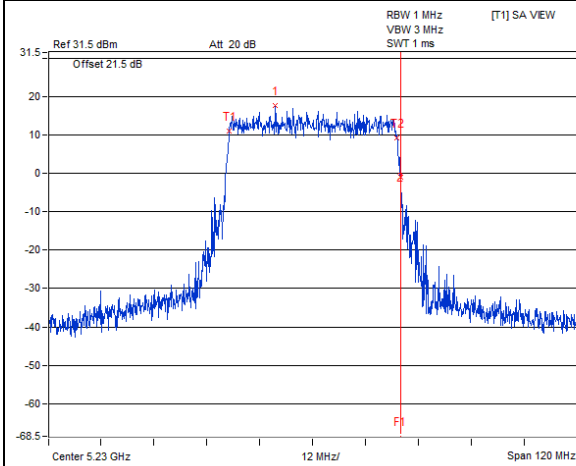
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2A)



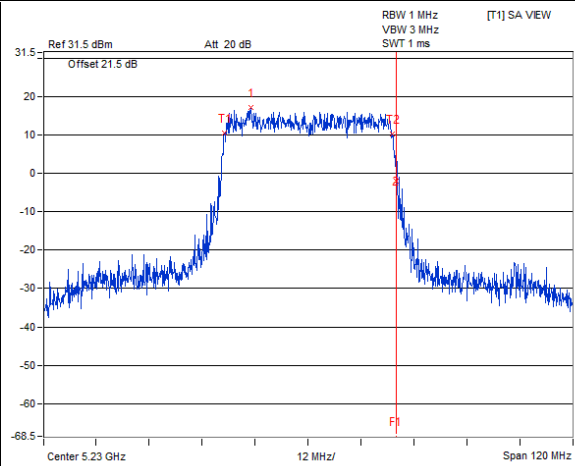
802.11be (EHT20) / Chain 2 : CH 48



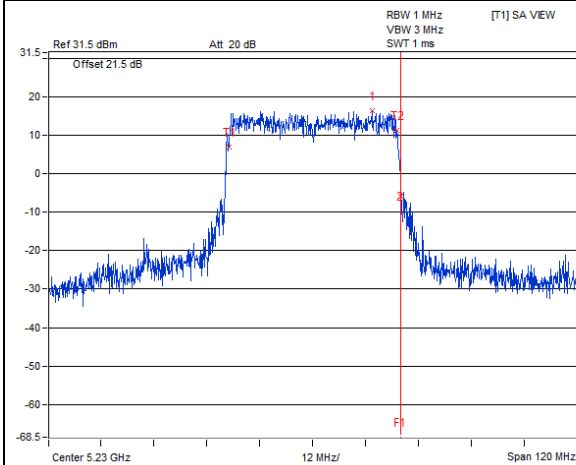
802.11be (EHT20) / Chain 3 : CH 48



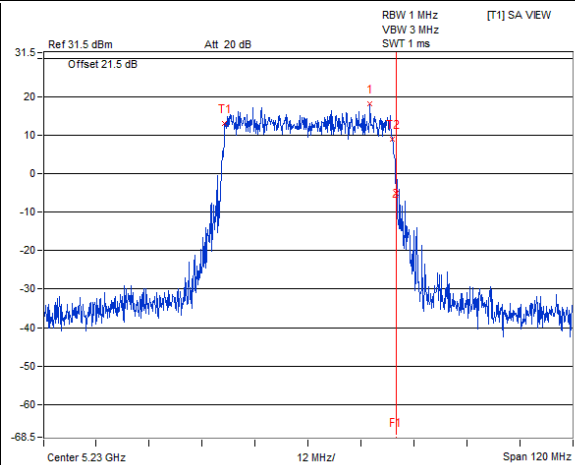
802.11be (EHT40) / Chain 0 : CH 46



802.11be (EHT40) / Chain 1 : CH 46

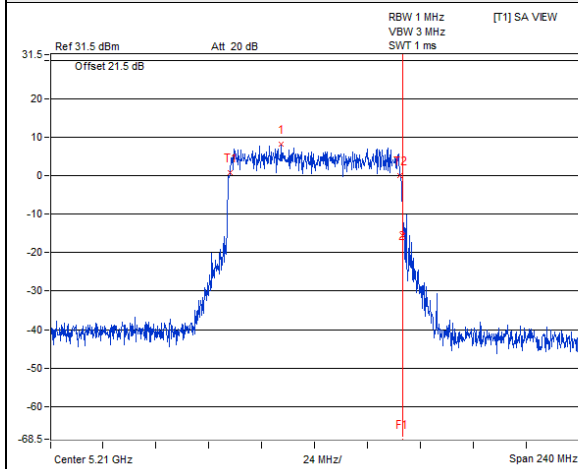


802.11be (EHT40) / Chain 2 : CH 46

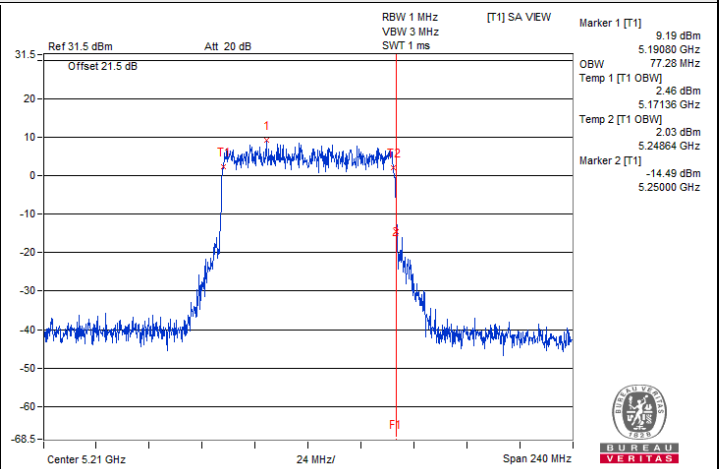


802.11be (EHT40) / Chain 3 : CH 46

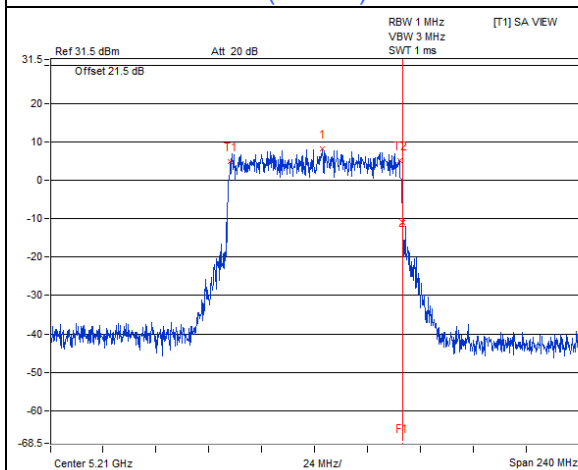
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A)



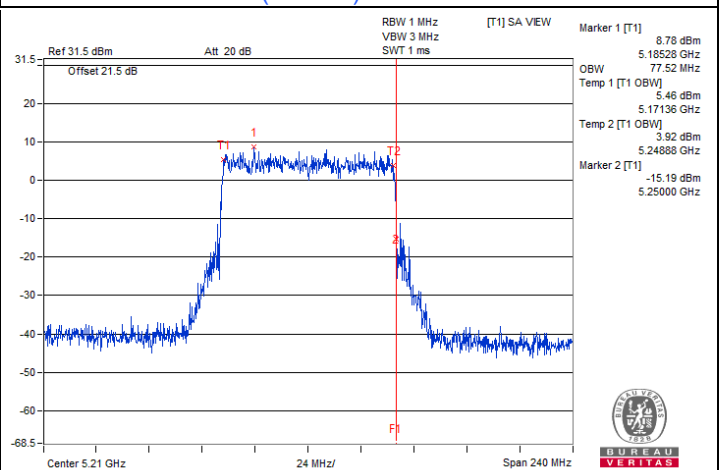
802.11be (EHT80) / Chain 0 : CH 42



802.11be (EHT80) / Chain 1 : CH 42

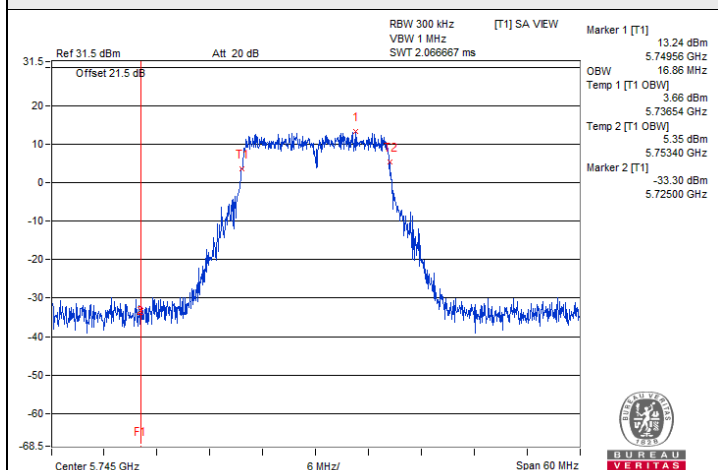


802.11be (EHT80) / Chain 2 : CH 42

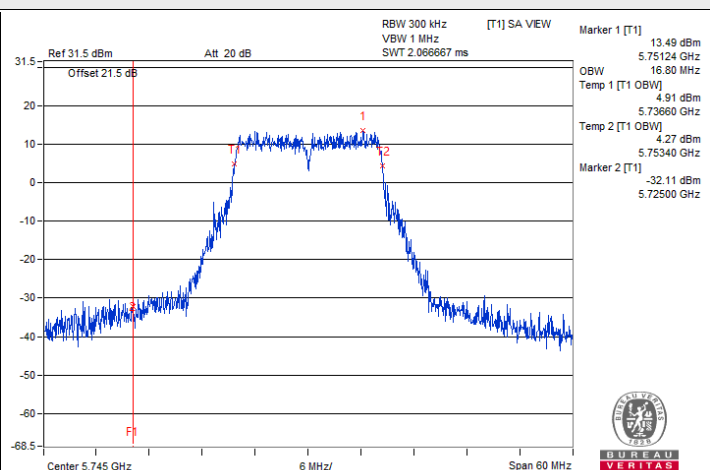


802.11be (EHT80) / Chain 3 : CH 42

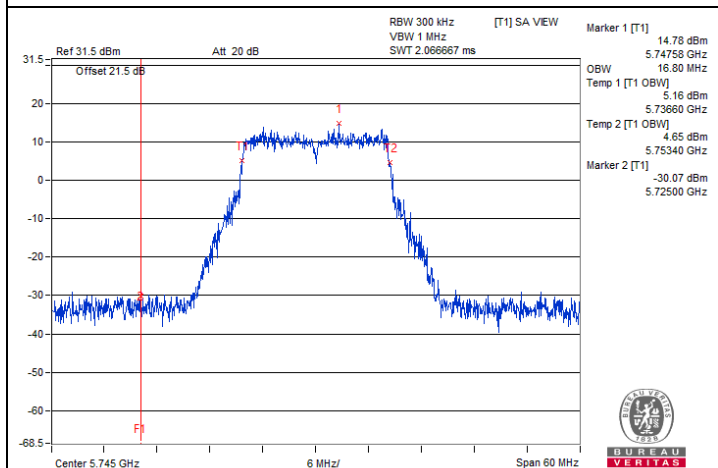
Spectrum Plot for nearby DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C)



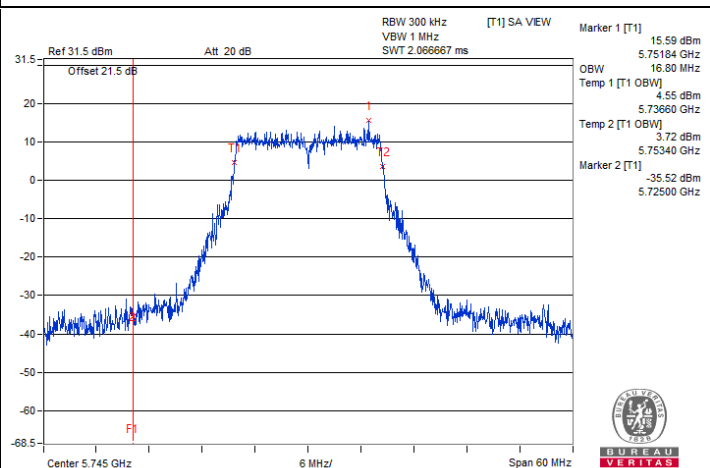
802.11a / Chain 0 : CH 149



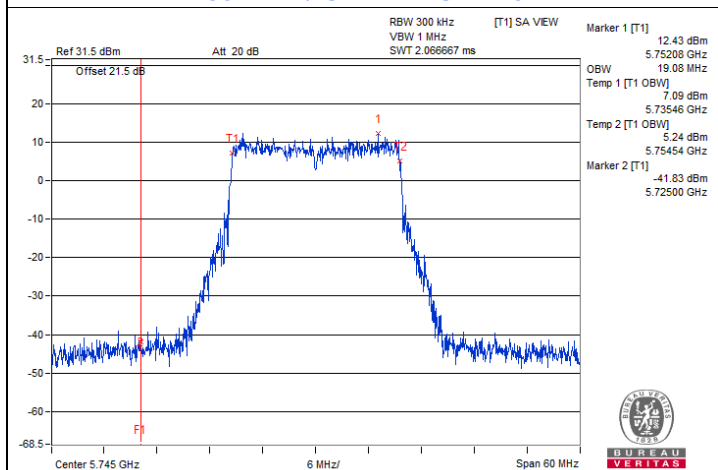
802.11a / Chain 1 : CH 149



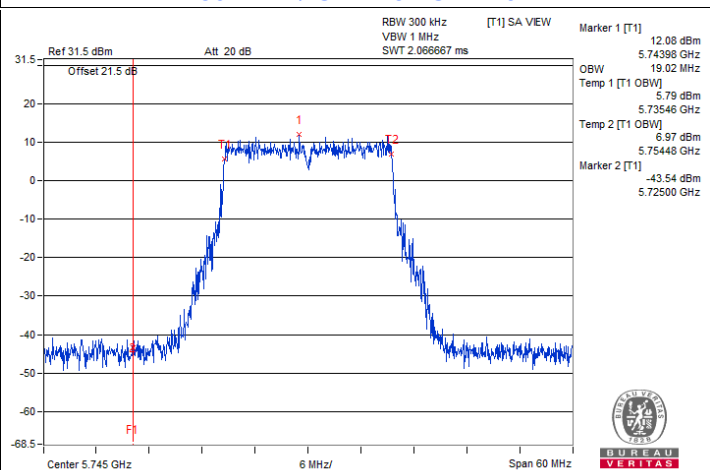
802.11a / Chain 2 : CH 149



802.11a / Chain 3 : CH 149

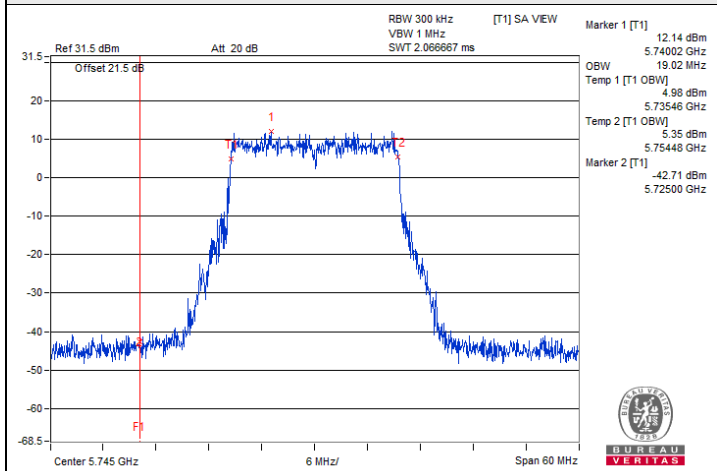


802.11be (EHT20) / Chain 0 : CH 149

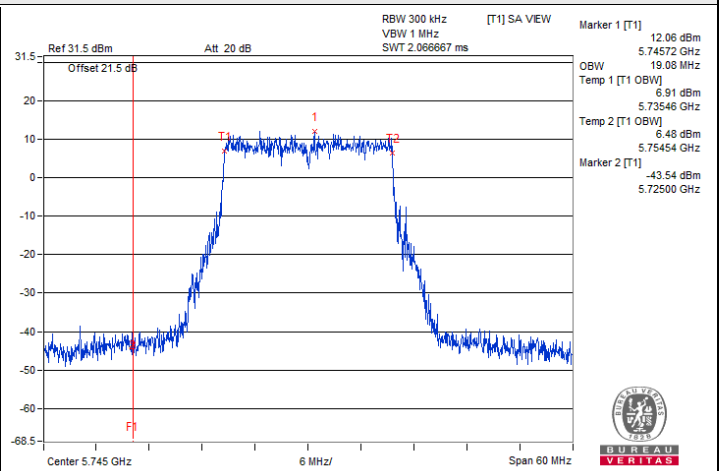


802.11be (EHT20) / Chain 1 : CH 149

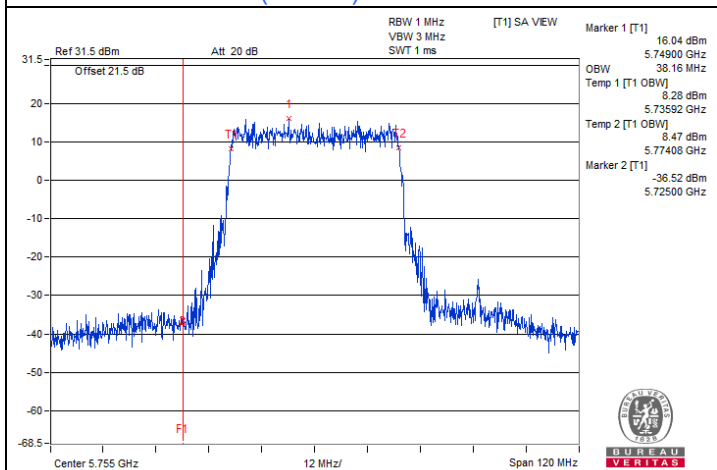
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



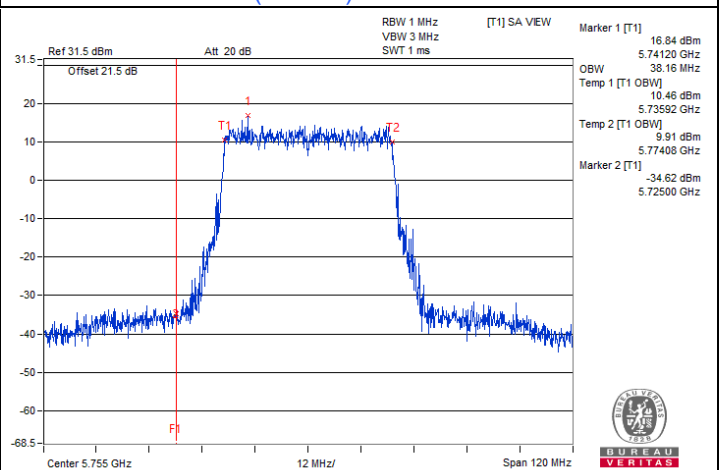
802.11be (EHT20) / Chain 2 : CH 149



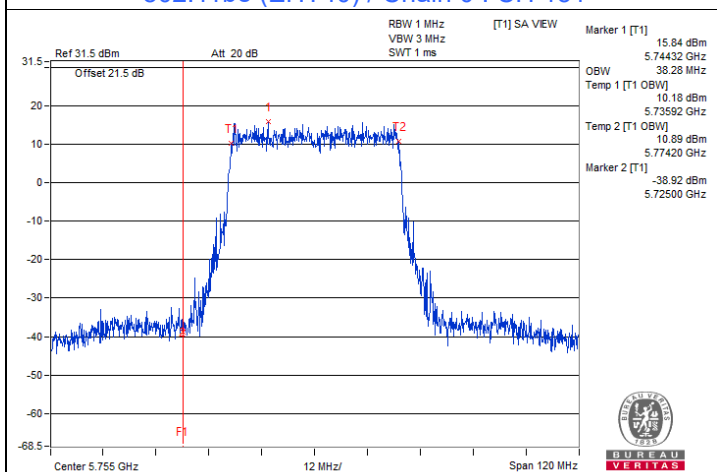
802.11be (EHT20) / Chain 3 : CH 149



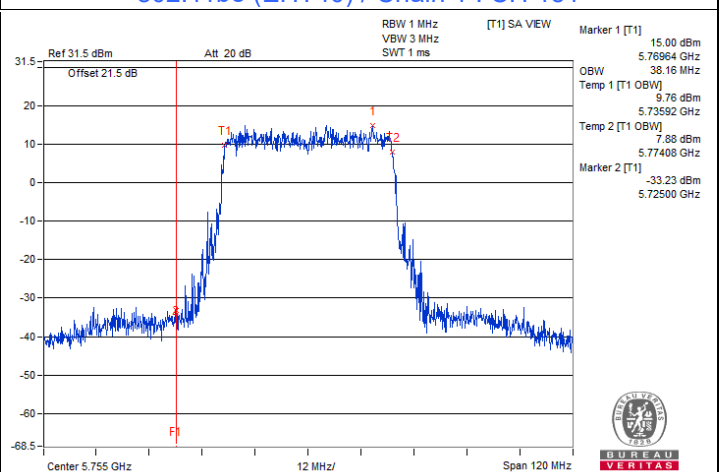
802.11be (EHT40) / Chain 0 : CH 151



802.11be (EHT40) / Chain 1 : CH 151

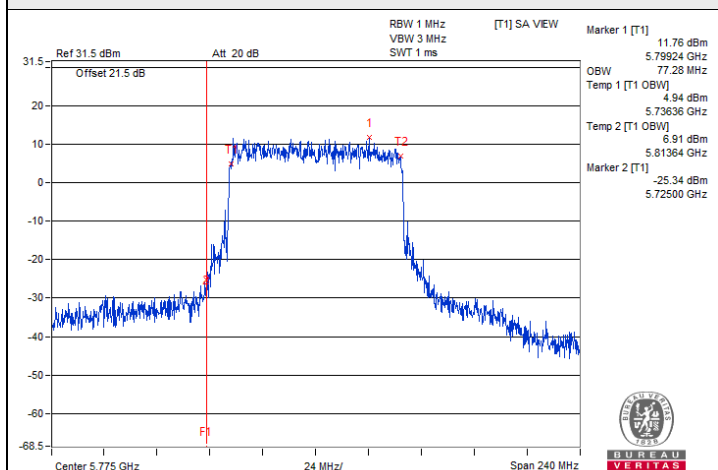


802.11be (EHT40) / Chain 2 : CH 151

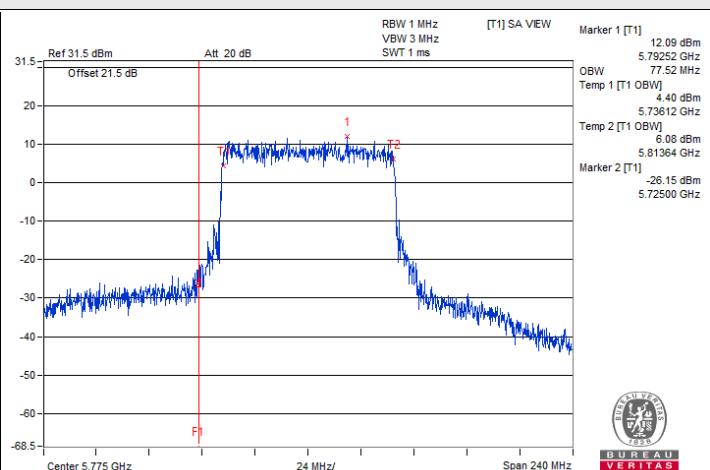


802.11be (EHT40) / Chain 3 : CH 151

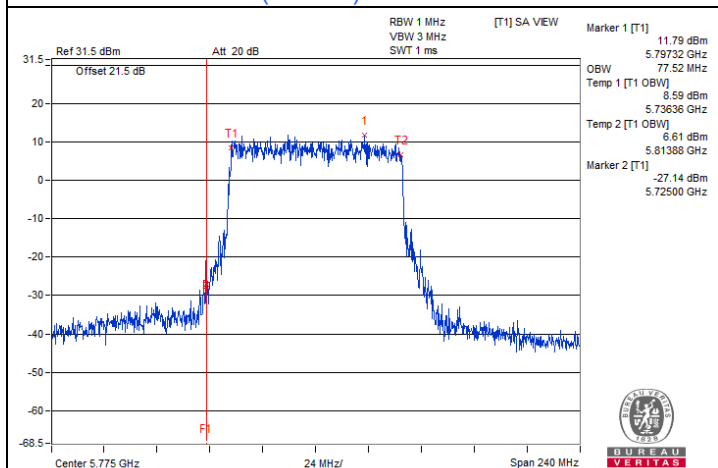
Spectrum Plot for nearby DFS band (DFS is required, if 99% OCP straddle into U-NII-2C)



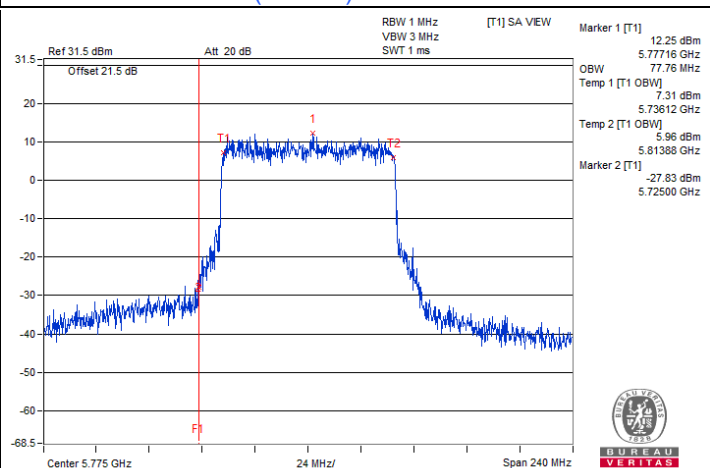
802.11be (EHT80) / Chain 0 : CH 155



802.11be (EHT80) / Chain 1 : CH 155



802.11be (EHT80) / Chain 2 : CH 155



802.11be (EHT80) / Chain 3 : CH 155

7.5 AC Power Conducted Emissions

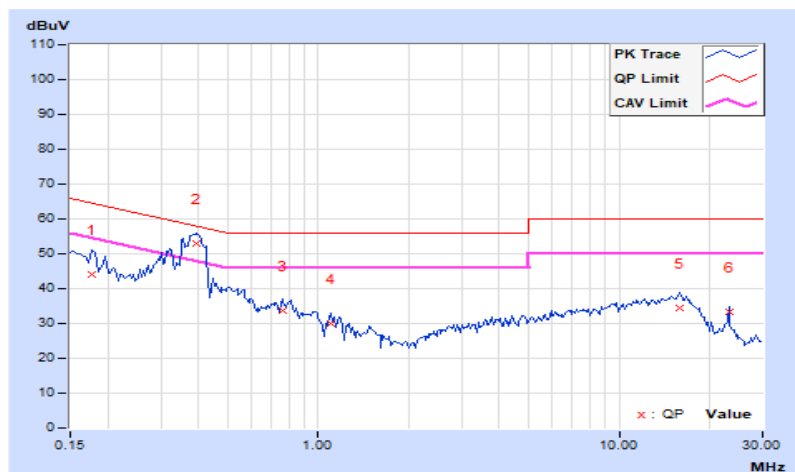
Mode A

RF Mode	802.11be (EHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 63% RH
Tested By	Wayne Chen		

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	0.17734	9.96	34.04	25.79	44.00	35.75	64.61	54.61	-20.61	-18.86
2	0.39219	9.99	42.91	34.48	52.90	44.47	58.02	48.02	-5.12	-3.55
3	0.75938	10.03	23.76	12.29	33.79	22.32	56.00	46.00	-22.21	-23.68
4	1.10547	10.05	19.81	11.32	29.86	21.37	56.00	46.00	-26.14	-24.63
5	15.92578	11.02	23.35	18.50	34.37	29.52	60.00	50.00	-25.63	-20.48
6	23.12891	11.35	22.00	21.73	33.35	33.08	60.00	50.00	-26.65	-16.92

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

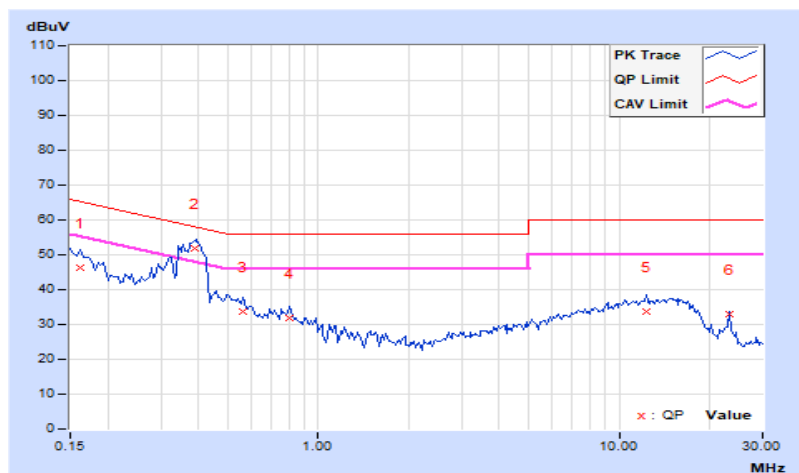


RF Mode	802.11be (EHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 63% RH
Tested By	Wayne Chen		

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	0.16172	9.98	36.48	24.99	46.46	34.97	65.38	55.38	-18.92	-20.41
2	0.38828	9.93	41.88	32.53	51.81	42.46	58.10	48.10	-6.29	-5.64
3	0.56406	9.95	23.70	15.51	33.65	25.46	56.00	46.00	-22.35	-20.54
4	0.80234	9.97	21.82	9.57	31.79	19.54	56.00	46.00	-24.21	-26.46
5	12.26563	10.57	23.02	17.52	33.59	28.09	60.00	50.00	-26.41	-21.91
6	23.12891	11.00	21.78	21.51	32.78	32.51	60.00	50.00	-27.22	-17.49

Remarks:

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



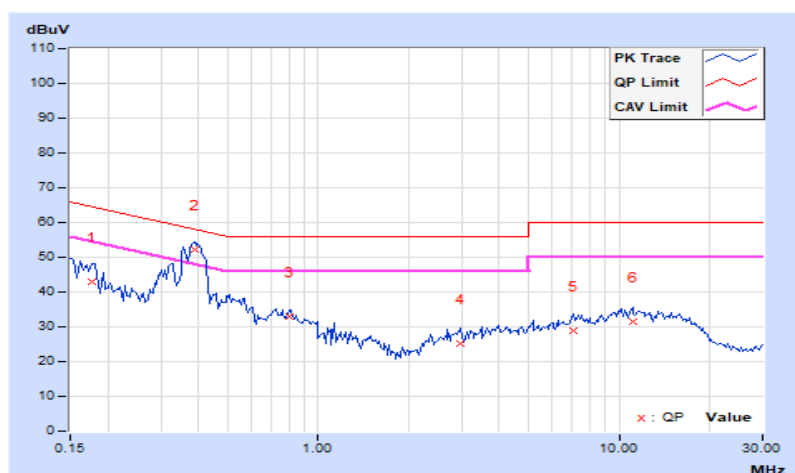
Mode B

RF Mode	802.11be (EHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Wayne Chen		

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	0.17734	9.96	32.91	21.42	42.87	31.38	64.61	54.61	-21.74	-23.23
2	0.38828	9.99	42.14	33.74	52.13	43.73	58.10	48.10	-5.97	-4.37
3	0.80234	10.03	23.09	12.54	33.12	22.57	56.00	46.00	-22.88	-23.43
4	2.98828	10.16	15.10	9.31	25.26	19.47	56.00	46.00	-30.74	-26.53
5	7.02734	10.44	18.50	12.17	28.94	22.61	60.00	50.00	-31.06	-27.39
6	11.08203	10.70	20.93	15.32	31.63	26.02	60.00	50.00	-28.37	-23.98

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

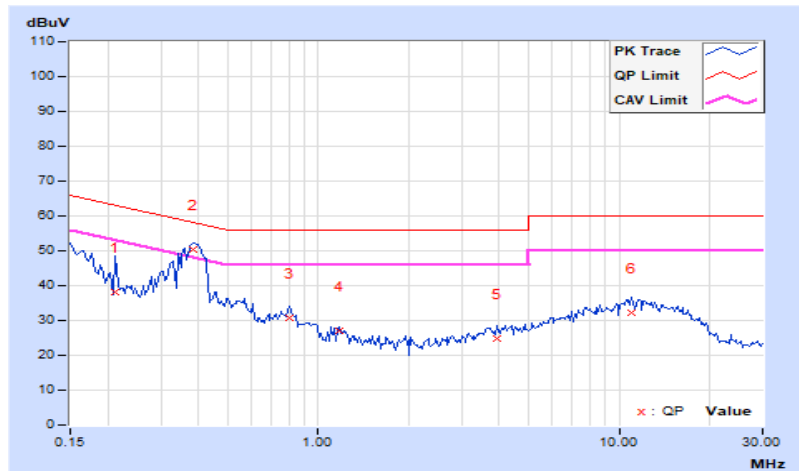


RF Mode	802.11be (EHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	150 kHz ~ 30 MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °C, 75% RH
Tested By	Wayne Chen		

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	0.21250	9.97	28.29	19.86	38.26	29.83	63.11	53.11	-24.85	-23.28
2	0.38438	9.93	40.50	34.14	50.43	44.07	58.18	48.18	-7.75	-4.11
3	0.80625	9.97	20.70	9.47	30.67	19.44	56.00	46.00	-25.33	-26.56
4	1.17188	10.00	16.98	6.65	26.98	16.65	56.00	46.00	-29.02	-29.35
5	3.93750	10.15	14.76	7.54	24.91	17.69	56.00	46.00	-31.09	-28.31
6	10.98438	10.50	21.59	15.75	32.09	26.25	60.00	50.00	-27.91	-23.75

Remarks:

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



7.6 Unwanted Emissions below 1 GHz

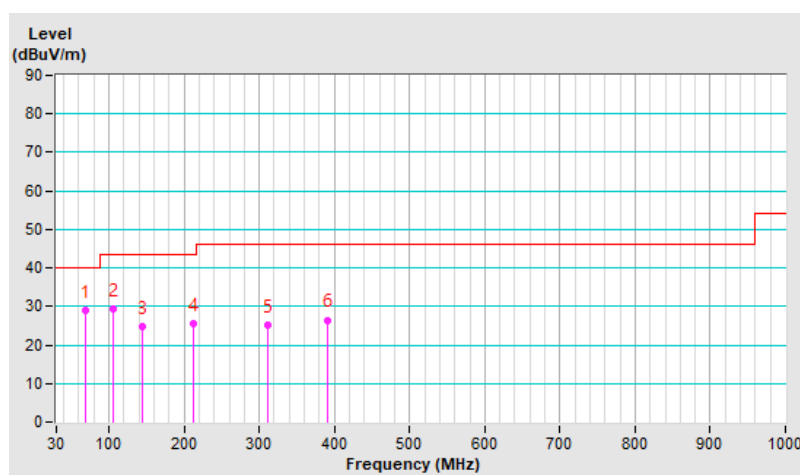
Mode A

RF Mode	802.11be (EHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 63% 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	69.48	28.9 QP	40.0	-11.1	3.00 H	20	44.1	-15.2
2	105.59	29.2 QP	43.5	-14.3	3.00 H	287	45.7	-16.5
3	145.09	24.8 QP	43.5	-18.7	2.00 H	263	37.8	-13.0
4	211.73	25.6 QP	43.5	-17.9	1.00 H	260	41.9	-16.3
5	310.74	25.1 QP	46.0	-20.9	1.00 H	117	37.1	-12.0
6	390.72	26.5 QP	46.0	-19.5	1.00 H	216	36.5	-10.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit 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.

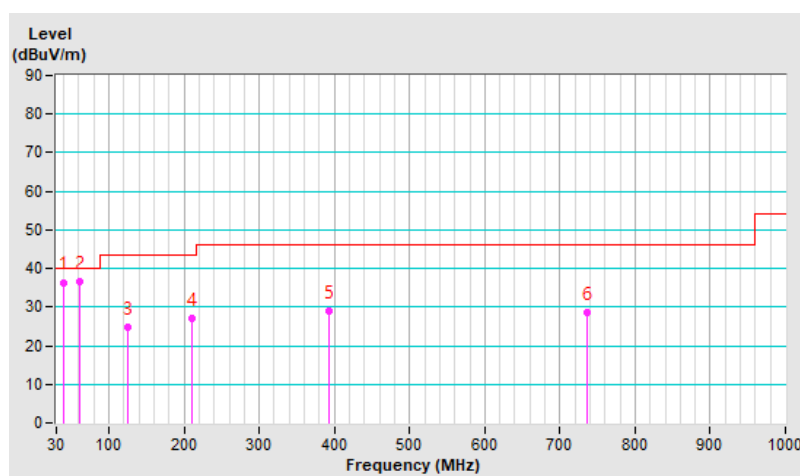


RF Mode	802.11be (EHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 63% RH
Tested By	Wayne Chen		

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	40.19	36.4 QP	40.0	-3.6	1.00 V	237	49.7	-13.3
2	60.14	36.5 QP	40.0	-3.5	1.00 V	334	50.2	-13.7
3	124.96	24.9 QP	43.5	-18.6	1.00 V	327	39.4	-14.5
4	211.15	27.1 QP	43.5	-16.4	1.00 V	316	43.4	-16.3
5	393.53	29.0 QP	46.0	-17.0	1.00 V	64	39.0	-10.0
6	736.35	28.7 QP	46.0	-17.3	2.00 V	64	31.3	-2.6

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



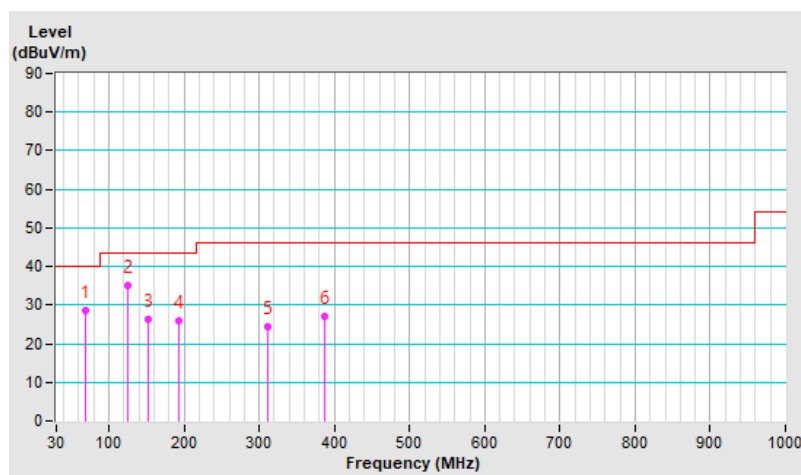
Mode B

RF Mode	802.11be (EHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 63% 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	68.51	28.5 QP	40.0	-11.5	2.00 H	95	43.5	-15.0
2	125.01	34.9 QP	43.5	-8.6	1.00 H	129	49.4	-14.5
3	152.37	26.3 QP	43.5	-17.2	2.00 H	256	39.2	-12.9
4	193.74	25.9 QP	43.5	-17.6	1.00 H	273	41.9	-16.0
5	311.47	24.2 QP	46.0	-21.8	1.00 H	126	36.2	-12.0
6	387.76	27.2 QP	46.0	-18.8	1.00 H	197	37.3	-10.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit 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.

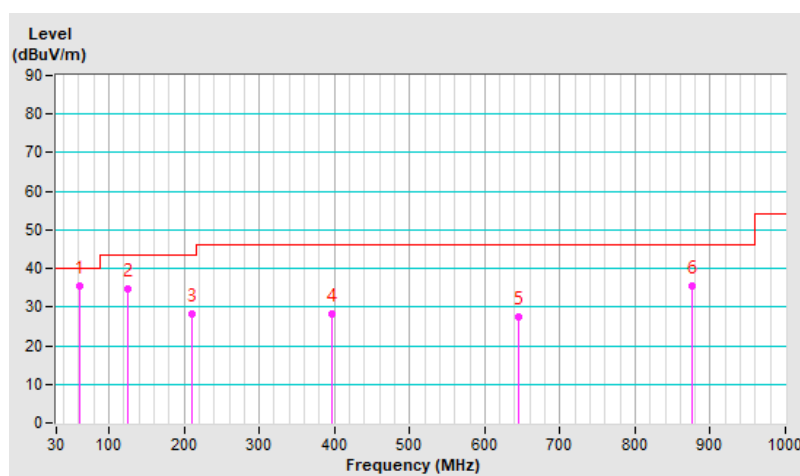


RF Mode	802.11be (EHT40)	Channel	CH 46 : 5230 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	QP: RB=120 kHz, DET=Quasi-Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	23 °C, 63% RH
Tested By	Wayne Chen		

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	60.09	35.6 QP	40.0	-4.4	1.00 V	27	49.3	-13.7
2	125.01	34.8 QP	43.5	-8.7	1.00 V	240	49.3	-14.5
3	211.37	28.3 QP	43.5	-15.2	1.00 V	317	44.6	-16.3
4	396.81	28.3 QP	46.0	-17.7	1.00 V	71	38.1	-9.8
5	644.47	27.4 QP	46.0	-18.6	1.00 V	140	31.6	-4.2
6	875.04	35.6 QP	46.0	-10.4	1.00 V	198	36.7	-1.1

Remarks:

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



7.7 Unwanted Emissions above 1 GHz

Mode A

RF Mode	802.11a	Channel	CH 36 : 5180 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
Input Power	120 Vac, 60 Hz	Environmental Conditions	25 °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	5150.00	60.6 PK	74.0	-13.4	2.42 H	219	55.4	5.2
2	5150.00	47.5 AV	54.0	-6.5	2.42 H	219	42.3	5.2
3	*5180.00	115.3 PK			2.42 H	219	110.1	5.2
4	*5180.00	106.8 AV			2.42 H	219	101.6	5.2
5	#10360.00	48.1 PK	68.2	-20.1	2.77 H	254	33.9	14.2
6	15540.00	51.8 PK	74.0	-22.2	2.14 H	237	34.0	17.8
7	15540.00	38.8 AV	54.0	-15.2	2.14 H	237	21.0	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	63.7 PK	74.0	-10.3	1.44 V	219	58.5	5.2
2	5150.00	51.9 AV	54.0	-2.1	1.44 V	219	46.7	5.2
3	*5180.00	116.3 PK			1.44 V	219	111.1	5.2
4	*5180.00	107.8 AV			1.44 V	219	102.6	5.2
5	#10360.00	49.6 PK	68.2	-18.6	1.45 V	59	35.4	14.2
6	15540.00	52.2 PK	74.0	-21.8	3.49 V	95	34.4	17.8
7	15540.00	39.8 AV	54.0	-14.2	3.49 V	95	22.0	17.8

Remarks:

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

RF Mode	802.11a	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	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	5150.00	61.2 PK	74.0	-12.8	2.26 H	223	56.0	5.2
2	5150.00	49.6 AV	54.0	-4.4	2.26 H	223	44.4	5.2
3	*5200.00	119.3 PK			2.26 H	223	114.1	5.2
4	*5200.00	110.9 AV			2.26 H	223	105.7	5.2
5	#10400.00	48.3 PK	68.2	-19.9	2.73 H	260	34.1	14.2
6	15600.00	51.9 PK	74.0	-22.1	2.09 H	246	34.1	17.8
7	15600.00	38.8 AV	54.0	-15.2	2.09 H	246	21.0	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	65.7 PK	74.0	-8.3	1.25 V	219	60.5	5.2
2	5150.00	52.7 AV	54.0	-1.3	1.25 V	219	47.5	5.2
3	*5200.00	119.9 PK			1.25 V	219	114.7	5.2
4	*5200.00	111.5 AV			1.25 V	219	106.3	5.2
5	#10400.00	50.4 PK	68.2	-17.8	1.46 V	54	36.2	14.2
6	15600.00	52.2 PK	74.0	-21.8	3.50 V	88	34.4	17.8
7	15600.00	40.1 AV	54.0	-13.9	3.50 V	88	22.3	17.8

Remarks:

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

RF Mode	802.11a	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	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	5150.00	55.6 PK	74.0	-18.4	2.48 H	228	50.4	5.2
2	5150.00	45.9 AV	54.0	-8.1	2.48 H	228	40.7	5.2
3	*5240.00	120.1 PK			2.48 H	228	115.2	4.9
4	*5240.00	111.8 AV			2.48 H	228	106.9	4.9
5	5350.00	56.1 PK	74.0	-17.9	2.48 H	228	50.9	5.2
6	5350.00	44.9 AV	54.0	-9.1	2.48 H	228	39.7	5.2
7	#10480.00	48.6 PK	68.2	-19.6	2.81 H	264	34.4	14.2
8	15720.00	51.7 PK	74.0	-22.3	2.16 H	226	34.1	17.6
9	15720.00	38.9 AV	54.0	-15.1	2.16 H	226	21.3	17.6

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.7 PK	74.0	-15.3	1.21 V	22	53.5	5.2
2	5150.00	50.3 AV	54.0	-3.7	1.21 V	22	45.1	5.2
3	*5240.00	121.5 PK			1.21 V	22	116.6	4.9
4	*5240.00	112.8 AV			1.21 V	22	107.9	4.9
5	5350.00	57.7 PK	74.0	-16.3	1.21 V	22	52.5	5.2
6	5350.00	46.4 AV	54.0	-7.6	1.21 V	22	41.2	5.2
7	#10480.00	49.7 PK	68.2	-18.5	1.42 V	60	35.5	14.2
8	15720.00	52.6 PK	74.0	-21.4	3.54 V	86	35.0	17.6
9	15720.00	40.3 AV	54.0	-13.7	3.54 V	86	22.7	17.6

Remarks:

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

RF Mode	802.11a	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	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	#5651.02	66.5 PK	68.2	-1.7	2.44 H	236	61.0	5.5
2	*5745.00	120.8 PK			2.44 H	236	115.4	5.4
3	*5745.00	112.6 AV			2.44 H	236	107.2	5.4
4	#5946.38	53.8 PK	68.2	-14.4	2.44 H	236	48.2	5.6
5	11490.00	49.1 PK	74.0	-24.9	2.90 H	265	33.8	15.3
6	11490.00	37.2 AV	54.0	-16.8	2.90 H	265	21.9	15.3
7	#17235.00	59.2 PK	68.2	-9.0	3.13 H	331	37.9	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	#5642.47	67.1 PK	68.2	-1.1	2.44 V	133	61.6	5.5
2	*5745.00	121.2 PK			2.44 V	133	115.8	5.4
3	*5745.00	113.2 AV			2.44 V	133	107.8	5.4
4	#5995.84	52.3 PK	68.2	-15.9	2.44 V	133	46.6	5.7
5	11490.00	49.9 PK	74.0	-24.1	1.60 V	284	34.6	15.3
6	11490.00	38.1 AV	54.0	-15.9	1.60 V	284	22.8	15.3
7	#17235.00	59.8 PK	68.2	-8.4	3.02 V	287	38.5	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	802.11a	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	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	#5649.47	64.1 PK	68.2	-4.1	2.73 H	232	58.6	5.5
2	*5785.00	122.1 PK			2.73 H	232	116.4	5.7
3	*5785.00	113.4 AV			2.73 H	232	107.7	5.7
4	#5933.69	52.6 PK	68.2	-15.6	2.73 H	232	47.1	5.5
5	11570.00	49.7 PK	74.0	-24.3	2.97 H	250	34.5	15.2
6	11570.00	37.9 AV	54.0	-16.1	2.97 H	250	22.7	15.2
7	#17355.00	59.3 PK	68.2	-8.9	3.03 H	312	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	#5631.45	61.3 PK	68.2	-6.9	2.38 V	130	55.8	5.5
2	*5785.00	122.3 PK			2.38 V	130	116.6	5.7
3	*5785.00	114.3 AV			2.38 V	130	108.6	5.7
4	#5996.73	53.1 PK	68.2	-15.1	2.38 V	130	47.4	5.7
5	11570.00	50.1 PK	74.0	-23.9	1.63 V	275	34.9	15.2
6	11570.00	38.5 AV	54.0	-15.5	1.63 V	275	23.3	15.2
7	#17355.00	59.8 PK	68.2	-8.4	2.98 V	286	37.9	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	802.11a	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	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	#5646.94	56.1 PK	68.2	-12.1	2.49 H	235	50.6	5.5
2	*5825.00	121.3 PK			2.49 H	235	115.5	5.8
3	*5825.00	112.4 AV			2.49 H	235	106.6	5.8
4	#6021.48	53.1 PK	68.2	-15.1	2.49 H	235	47.4	5.7
5	11650.00	49.2 PK	74.0	-24.8	2.93 H	259	34.0	15.2
6	11650.00	37.5 AV	54.0	-16.5	2.93 H	259	22.3	15.2
7	#17475.00	59.2 PK	68.2	-9.0	3.08 H	328	36.9	22.3
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	#5647.15	54.1 PK	68.2	-14.1	2.41 V	129	48.6	5.5
2	*5825.00	122.7 PK			2.41 V	129	116.9	5.8
3	*5825.00	114.6 AV			2.41 V	129	108.8	5.8
4	#5946.13	52.9 PK	68.2	-15.3	2.41 V	129	47.3	5.6
5	11650.00	50.2 PK	74.0	-23.8	1.58 V	266	35.0	15.2
6	11650.00	38.4 AV	54.0	-15.6	1.58 V	266	23.2	15.2
7	#17475.00	60.1 PK	68.2	-8.1	3.02 V	283	37.8	22.3

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 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=200 Hz, 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	5150.00	59.1 PK	74.0	-14.9	2.48 H	223	53.9	5.2
2	5150.00	47.1 AV	54.0	-6.9	2.48 H	223	41.9	5.2
3	*5180.00	119.1 PK			2.48 H	223	113.9	5.2
4	*5180.00	107.7 AV			2.48 H	223	102.5	5.2
5	#10360.00	48.1 PK	68.2	-20.1	2.72 H	267	33.9	14.2
6	15540.00	51.6 PK	74.0	-22.4	2.09 H	239	33.8	17.8
7	15540.00	38.6 AV	54.0	-15.4	2.09 H	239	20.8	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.9 PK	74.0	-12.1	1.42 V	212	56.7	5.2
2	5150.00	49.1 AV	54.0	-4.9	1.42 V	212	43.9	5.2
3	*5180.00	120.1 PK			1.42 V	212	114.9	5.2
4	*5180.00	109.1 AV			1.42 V	212	103.9	5.2
5	#10360.00	50.1 PK	68.2	-18.1	1.43 V	55	35.9	14.2
6	15540.00	51.9 PK	74.0	-22.1	3.44 V	111	34.1	17.8
7	15540.00	39.6 AV	54.0	-14.4	3.44 V	111	21.8	17.8

Remarks:

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

RF Mode	802.11be (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=200 Hz, 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	5150.00	55.1 PK	74.0	-18.9	2.48 H	238	49.9	5.2
2	5150.00	44.5 AV	54.0	-9.5	2.48 H	238	39.3	5.2
3	*5200.00	119.7 PK			2.48 H	238	114.5	5.2
4	*5200.00	108.4 AV			2.48 H	238	103.2	5.2
5	#10400.00	48.1 PK	68.2	-20.1	2.71 H	249	33.9	14.2
6	15600.00	52.3 PK	74.0	-21.7	2.12 H	248	34.5	17.8
7	15600.00	39.2 AV	54.0	-14.8	2.12 H	248	21.4	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	69.6 PK	74.0	-4.4	1.36 V	214	64.4	5.2
2	5150.00	53.4 AV	54.0	-0.6	1.36 V	214	48.2	5.2
3	*5200.00	120.1 PK			1.36 V	214	114.9	5.2
4	*5200.00	110.3 AV			1.36 V	214	105.1	5.2
5	#10400.00	49.8 PK	68.2	-18.4	1.48 V	63	35.6	14.2
6	15600.00	52.1 PK	74.0	-21.9	3.47 V	100	34.3	17.8
7	15600.00	40.2 AV	54.0	-13.8	3.47 V	100	22.4	17.8

Remarks:

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

RF Mode	802.11be (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=200 Hz, 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	5150.00	58.2 PK	74.0	-15.8	2.46 H	239	53.0	5.2
2	5150.00	46.6 AV	54.0	-7.4	2.46 H	239	41.4	5.2
3	*5240.00	121.1 PK			2.46 H	239	116.2	4.9
4	*5240.00	111.3 AV			2.46 H	239	106.4	4.9
5	5350.00	56.2 PK	74.0	-17.8	2.46 H	239	51.0	5.2
6	5350.00	45.6 AV	54.0	-8.4	2.46 H	239	40.4	5.2
7	#10480.00	48.2 PK	68.2	-20.0	2.80 H	270	34.0	14.2
8	15720.00	51.3 PK	74.0	-22.7	2.20 H	229	33.7	17.6
9	15720.00	38.5 AV	54.0	-15.5	2.20 H	229	20.9	17.6

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.1 PK	74.0	-15.9	1.42 V	211	52.9	5.2
2	5150.00	46.6 AV	54.0	-7.4	1.42 V	211	41.4	5.2
3	*5240.00	124.2 PK			1.42 V	211	119.3	4.9
4	*5240.00	113.7 AV			1.42 V	211	108.8	4.9
5	5350.00	58.7 PK	74.0	-15.3	1.42 V	211	53.5	5.2
6	5350.00	48.1 AV	54.0	-5.9	1.42 V	211	42.9	5.2
7	#10480.00	49.4 PK	68.2	-18.8	1.46 V	44	35.2	14.2
8	15720.00	52.4 PK	74.0	-21.6	3.52 V	100	34.8	17.6
9	15720.00	40.3 AV	54.0	-13.7	3.52 V	100	22.7	17.6

Remarks:

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

RF Mode	802.11be (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=200 Hz, 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	#5649.94	67.8 PK	68.2	-0.4	3.29 H	90	62.3	5.5
2	*5745.00	119.4 PK			3.29 H	90	114.0	5.4
3	*5745.00	109.9 AV			3.29 H	90	104.5	5.4
4	#5953.80	52.7 PK	68.2	-15.5	3.29 H	90	47.1	5.6
5	11490.00	49.3 PK	74.0	-24.7	2.93 H	279	34.0	15.3
6	11490.00	37.6 AV	54.0	-16.4	2.93 H	279	22.3	15.3
7	#17235.00	58.6 PK	68.2	-9.6	3.17 H	298	37.3	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	#5649.92	66.9 PK	68.2	-1.3	1.49 V	161	61.4	5.5
2	*5745.00	120.7 PK			1.49 V	161	115.3	5.4
3	*5745.00	110.8 AV			1.49 V	161	105.4	5.4
4	#5962.66	53.1 PK	68.2	-15.1	1.49 V	161	47.5	5.6
5	11490.00	50.6 PK	74.0	-23.4	1.64 V	266	35.3	15.3
6	11490.00	38.8 AV	54.0	-15.2	1.64 V	266	23.5	15.3
7	#17235.00	60.2 PK	68.2	-8.0	3.02 V	283	38.9	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 (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=200 Hz, 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	#5613.57	55.1 PK	68.2	-13.1	3.37 H	79	49.6	5.5
2	*5785.00	121.1 PK			3.37 H	79	115.4	5.7
3	*5785.00	110.9 AV			3.37 H	79	105.2	5.7
4	#5957.16	53.5 PK	68.2	-14.7	3.37 H	79	47.9	5.6
5	11570.00	50.2 PK	74.0	-23.8	3.00 H	299	35.0	15.2
6	11570.00	38.4 AV	54.0	-15.6	3.00 H	299	23.2	15.2
7	#17355.00	58.8 PK	68.2	-9.4	3.23 H	318	36.9	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	#5644.15	55.3 PK	68.2	-12.9	1.39 V	160	49.8	5.5
2	*5785.00	123.7 PK			1.39 V	160	118.0	5.7
3	*5785.00	112.3 AV			1.39 V	160	106.6	5.7
4	#5941.90	52.7 PK	68.2	-15.5	1.39 V	160	47.1	5.6
5	11570.00	50.1 PK	74.0	-23.9	1.72 V	277	34.9	15.2
6	11570.00	39.5 AV	54.0	-14.5	1.72 V	277	24.3	15.2
7	#17355.00	60.7 PK	68.2	-7.5	3.04 V	320	38.8	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 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=200 Hz, 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	#5636.64	57.3 PK	68.2	-10.9	3.31 H	91	51.8	5.5
2	*5825.00	121.8 PK			3.31 H	91	116.0	5.8
3	*5825.00	111.6 AV			3.31 H	91	105.8	5.8
4	#5935.44	52.1 PK	68.2	-16.1	3.31 H	91	46.6	5.5
5	11650.00	49.9 PK	74.0	-24.1	3.05 H	290	34.7	15.2
6	11650.00	38.1 AV	54.0	-15.9	3.05 H	290	22.9	15.2
7	#17475.00	58.6 PK	68.2	-9.6	3.26 H	310	36.3	22.3
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	#5641.28	59.7 PK	68.2	-8.5	1.44 V	155	54.2	5.5
2	*5825.00	123.4 PK			1.44 V	155	117.6	5.8
3	*5825.00	112.5 AV			1.44 V	155	106.7	5.8
4	#6007.59	53.7 PK	68.2	-14.5	1.44 V	155	48.0	5.7
5	11650.00	50.6 PK	74.0	-23.4	1.68 V	282	35.4	15.2
6	11650.00	38.9 AV	54.0	-15.1	1.68 V	282	23.7	15.2
7	#17475.00	60.6 PK	68.2	-7.6	2.99 V	298	38.3	22.3

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 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=200 Hz, 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	5150.00	59.1 PK	74.0	-14.9	2.07 H	228	53.9	5.2
2	5150.00	47.6 AV	54.0	-6.4	2.07 H	228	42.4	5.2
3	*5190.00	114.9 PK			2.07 H	228	109.8	5.1
4	*5190.00	103.8 AV			2.07 H	228	98.7	5.1
5	#10380.00	48.5 PK	68.2	-19.7	2.76 H	273	34.4	14.1
6	15570.00	51.5 PK	74.0	-22.5	2.13 H	235	33.7	17.8
7	15570.00	38.2 AV	54.0	-15.8	2.13 H	235	20.4	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	66.3 PK	74.0	-7.7	1.63 V	211	61.1	5.2
2	5150.00	52.8 AV	54.0	-1.2	1.63 V	211	47.6	5.2
3	*5190.00	116.3 PK			1.63 V	211	111.2	5.1
4	*5190.00	105.6 AV			1.63 V	211	100.5	5.1
5	#10380.00	50.4 PK	68.2	-17.8	1.52 V	67	36.3	14.1
6	15570.00	52.6 PK	74.0	-21.4	3.49 V	98	34.8	17.8
7	15570.00	40.4 AV	54.0	-13.6	3.49 V	98	22.6	17.8

Remarks:

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

RF Mode	802.11be (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=200 Hz, 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	5150.00	63.5 PK	74.0	-10.5	2.48 H	283	58.3	5.2
2	5150.00	53.1 AV	54.0	-0.9	2.48 H	283	47.9	5.2
3	*5230.00	117.4 PK			2.48 H	283	112.4	5.0
4	*5230.00	107.2 AV			2.48 H	283	102.2	5.0
5	5350.00	66.4 PK	74.0	-7.6	2.48 H	283	61.2	5.2
6	5350.00	49.6 AV	54.0	-4.4	2.48 H	283	44.4	5.2
7	#10460.00	48.7 PK	68.2	-19.5	2.76 H	268	34.5	14.2
8	15690.00	51.7 PK	74.0	-22.3	2.14 H	220	34.1	17.6
9	15690.00	38.6 AV	54.0	-15.4	2.14 H	220	21.0	17.6

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	64.5 PK	74.0	-9.5	1.46 V	210	59.3	5.2
2	5150.00	53.3 AV	54.0	-0.7	1.46 V	210	48.1	5.2
3	*5230.00	118.7 PK			1.46 V	210	113.7	5.0
4	*5230.00	108.7 AV			1.46 V	210	103.7	5.0
5	5350.00	65.5 PK	74.0	-8.5	1.46 V	210	60.3	5.2
6	5350.00	49.1 AV	54.0	-4.9	1.46 V	210	43.9	5.2
7	#10460.00	50.2 PK	68.2	-18.0	1.54 V	52	36.0	14.2
8	15690.00	52.7 PK	74.0	-21.3	3.51 V	112	35.1	17.6
9	15690.00	40.6 AV	54.0	-13.4	3.51 V	112	23.0	17.6

Remarks:

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

RF Mode	802.11be (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=200 Hz, 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	#5631.43	65.2 PK	68.2	-3.0	2.81 H	234	59.7	5.5
2	*5755.00	118.5 PK			2.81 H	234	113.1	5.4
3	*5755.00	108.2 AV			2.81 H	234	102.8	5.4
4	#5966.66	53.8 PK	68.2	-14.4	2.81 H	234	48.2	5.6
5	11510.00	49.7 PK	74.0	-24.3	2.93 H	278	34.4	15.3
6	11510.00	38.1 AV	54.0	-15.9	2.93 H	278	22.8	15.3
7	#17265.00	57.7 PK	68.2	-10.5	3.20 H	270	36.5	21.2
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	#5633.84	66.7 PK	68.2	-1.5	2.75 V	134	61.2	5.5
2	*5755.00	119.5 PK			2.75 V	134	114.1	5.4
3	*5755.00	109.3 AV			2.75 V	134	103.9	5.4
4	#5931.07	54.2 PK	68.2	-14.0	2.75 V	134	48.7	5.5
5	11510.00	50.9 PK	74.0	-23.1	1.69 V	286	35.6	15.3
6	11510.00	39.1 AV	54.0	-14.9	1.69 V	286	23.8	15.3
7	#17265.00	60.7 PK	68.2	-7.5	2.98 V	291	39.5	21.2

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 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=200 Hz, 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	#5639.37	66.3 PK	68.2	-1.9	2.44 H	239	60.8	5.5
2	*5795.00	119.9 PK			2.44 H	239	114.2	5.7
3	*5795.00	108.4 AV			2.44 H	239	102.7	5.7
4	#5941.45	53.3 PK	68.2	-14.9	2.44 H	239	47.7	5.6
5	11590.00	48.8 PK	74.0	-25.2	2.91 H	280	33.5	15.3
6	11590.00	37.6 AV	54.0	-16.4	2.91 H	280	22.3	15.3
7	#17385.00	57.8 PK	68.2	-10.4	3.21 H	296	35.6	22.2
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	#5643.79	67.3 PK	68.2	-0.9	2.88 V	135	61.8	5.5
2	*5795.00	120.9 PK			2.88 V	135	115.2	5.7
3	*5795.00	110.2 AV			2.88 V	135	104.5	5.7
4	#5999.27	53.1 PK	68.2	-15.1	2.88 V	135	47.4	5.7
5	11590.00	50.9 PK	74.0	-23.1	1.69 V	295	35.6	15.3
6	11590.00	38.8 AV	54.0	-15.2	1.69 V	295	23.5	15.3
7	#17385.00	60.7 PK	68.2	-7.5	3.02 V	288	38.5	22.2

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 (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=200 Hz, 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	5150.00	59.1 PK	74.0	-14.9	2.41 H	230	53.9	5.2
2	5150.00	48.5 AV	54.0	-5.5	2.41 H	230	43.3	5.2
3	*5210.00	110.3 PK			2.41 H	230	105.2	5.1
4	*5210.00	99.8 AV			2.41 H	230	94.7	5.1
5	#10420.00	49.1 PK	68.2	-19.1	2.73 H	268	34.9	14.2
6	15630.00	51.8 PK	74.0	-22.2	2.16 H	218	34.0	17.8
7	15630.00	38.4 AV	54.0	-15.6	2.16 H	218	20.6	17.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.7 PK	74.0	-11.3	1.65 V	210	57.5	5.2
2	5150.00	52.9 AV	54.0	-1.1	1.65 V	210	47.7	5.2
3	*5210.00	112.9 PK			1.65 V	210	107.8	5.1
4	*5210.00	101.1 AV			1.65 V	210	96.0	5.1
5	#10420.00	50.2 PK	68.2	-18.0	1.54 V	75	36.0	14.2
6	15630.00	52.4 PK	74.0	-21.6	3.49 V	85	34.6	17.8
7	15630.00	40.1 AV	54.0	-13.9	3.49 V	85	22.3	17.8

Remarks:

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

RF Mode	802.11be (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=200 Hz, 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	#5642.42	65.5 PK	68.2	-2.7	2.46 H	236	60.0	5.5
2	*5775.00	115.1 PK			2.46 H	236	109.6	5.5
3	*5775.00	104.8 AV			2.46 H	236	99.3	5.5
4	#5995.73	53.2 PK	68.2	-15.0	2.46 H	236	47.5	5.7
5	11550.00	49.1 PK	74.0	-24.9	2.89 H	266	33.9	15.2
6	11550.00	37.9 AV	54.0	-16.1	2.89 H	266	22.7	15.2
7	#17325.00	57.6 PK	68.2	-10.6	3.19 H	281	36.0	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	#5643.77	67.9 PK	68.2	-0.3	2.47 V	132	62.4	5.5
2	*5775.00	116.5 PK			2.47 V	132	111.0	5.5
3	*5775.00	106.2 AV			2.47 V	132	100.7	5.5
4	#6009.62	52.6 PK	68.2	-15.6	2.47 V	132	46.9	5.7
5	11550.00	50.6 PK	74.0	-23.4	1.75 V	294	35.4	15.2
6	11550.00	39.0 AV	54.0	-15.0	1.75 V	294	23.8	15.2
7	#17325.00	60.5 PK	68.2	-7.7	2.95 V	280	38.9	21.6

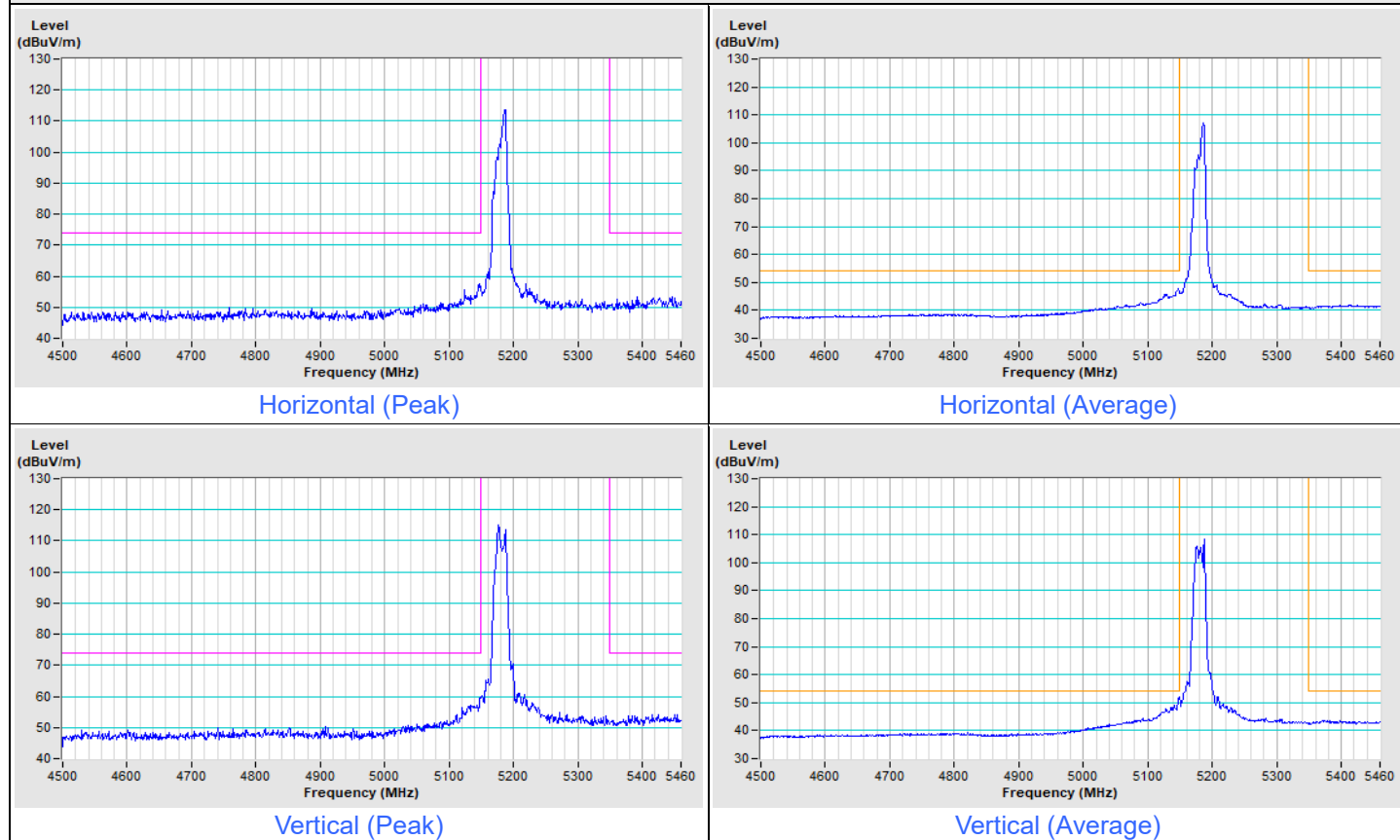
Remarks:

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.

Plot of Band Edge

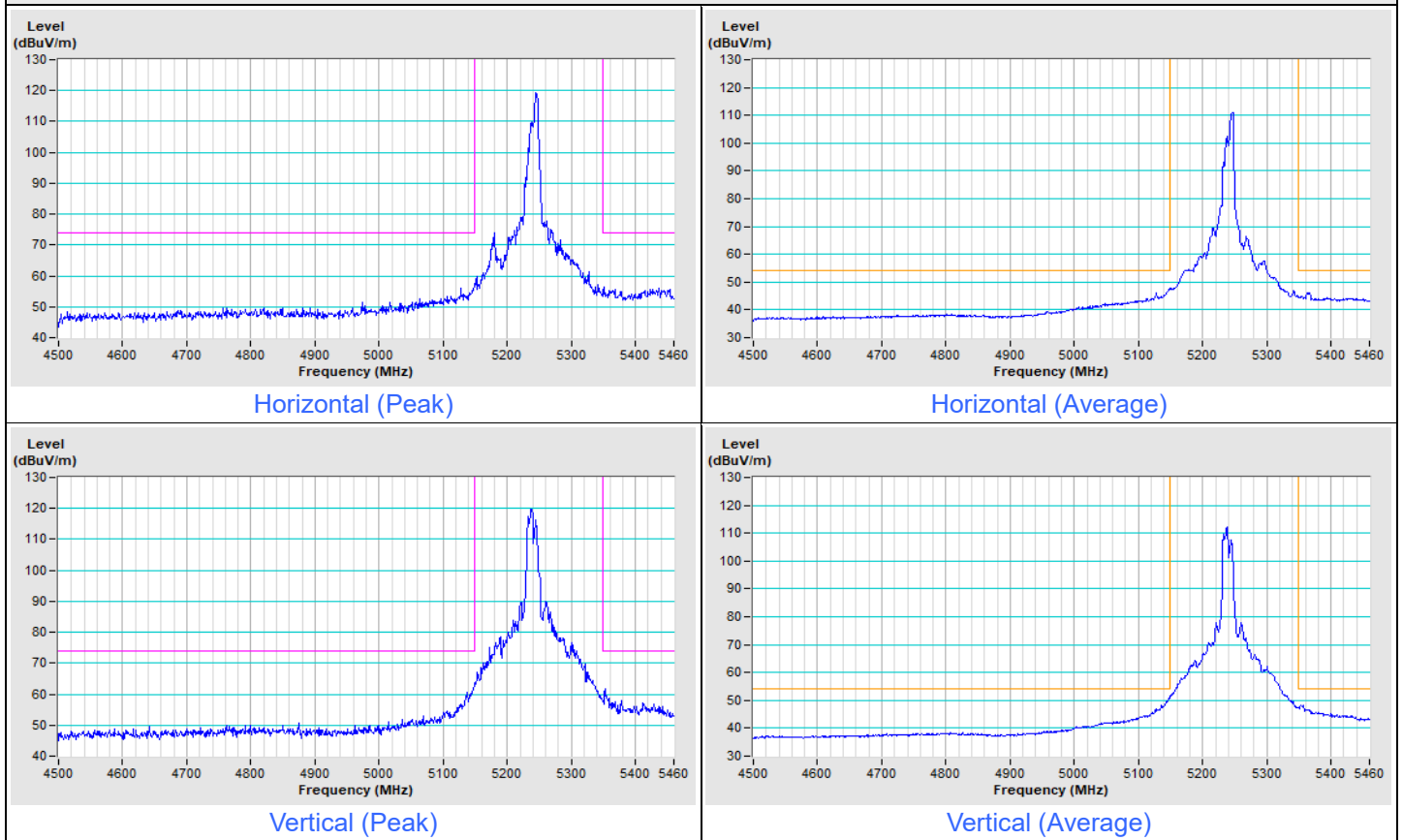
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11a Channel 36



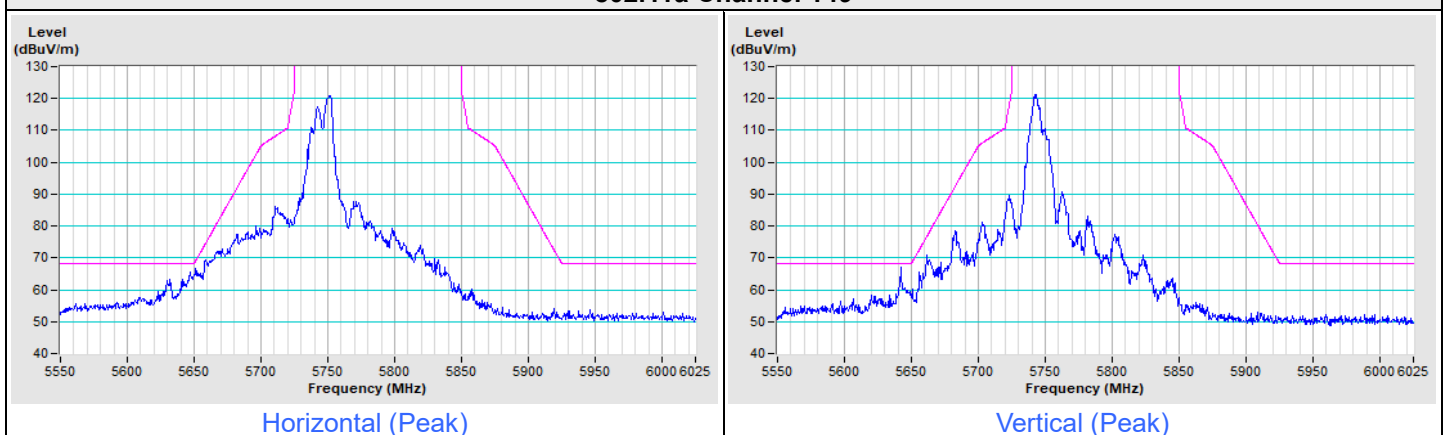
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=10 Hz, DET=Peak
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802.11a Channel 48



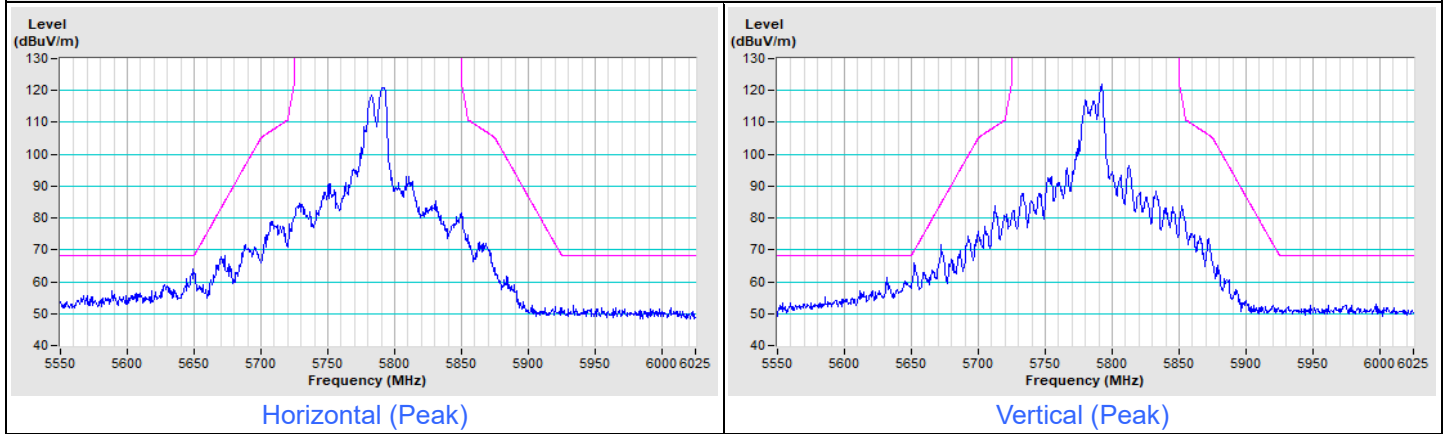
Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11a Channel 149

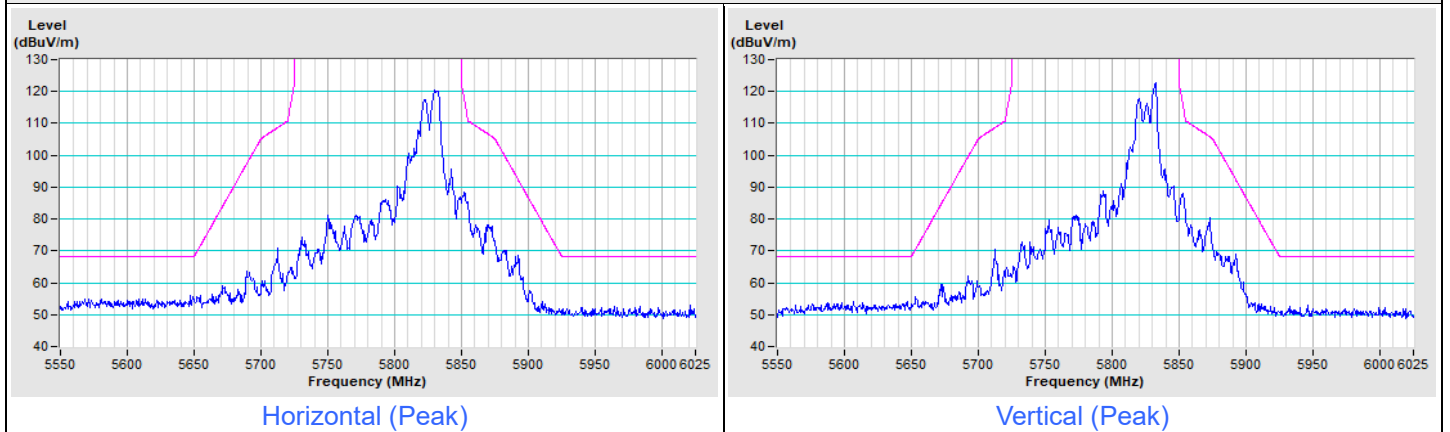


Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11a Channel 157

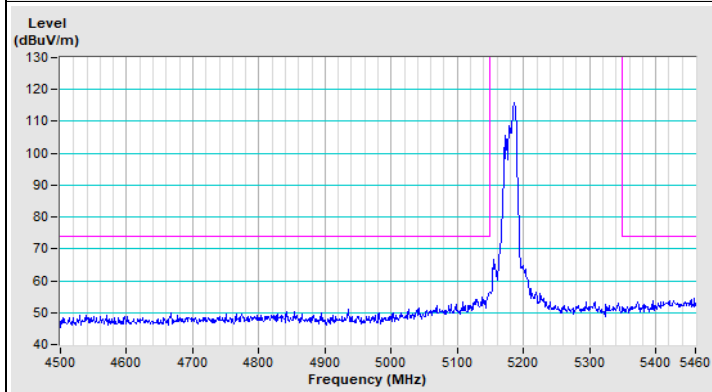


802.11a Channel 165

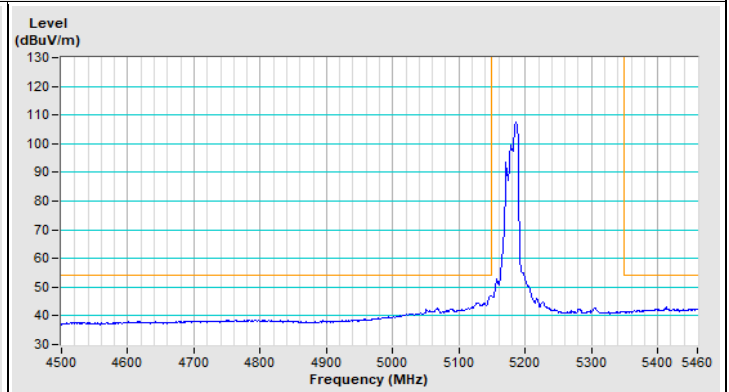


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
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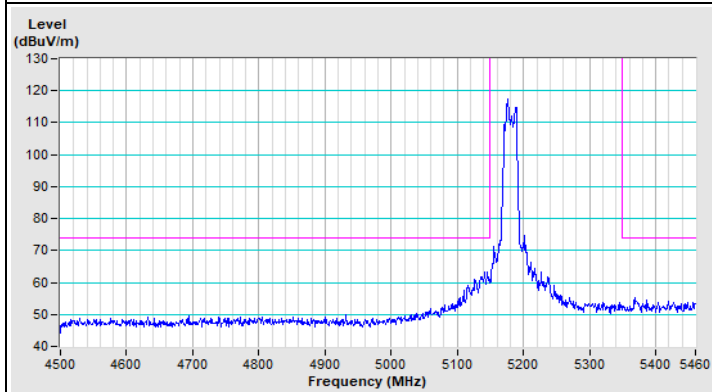
802.11be (EHT20) Channel 36



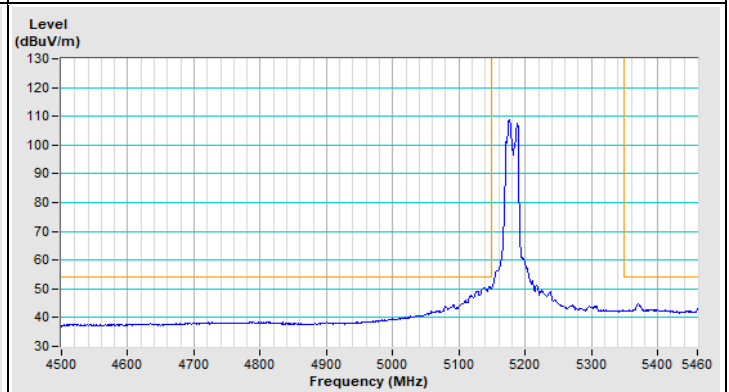
Horizontal (Peak)



Horizontal (Average)



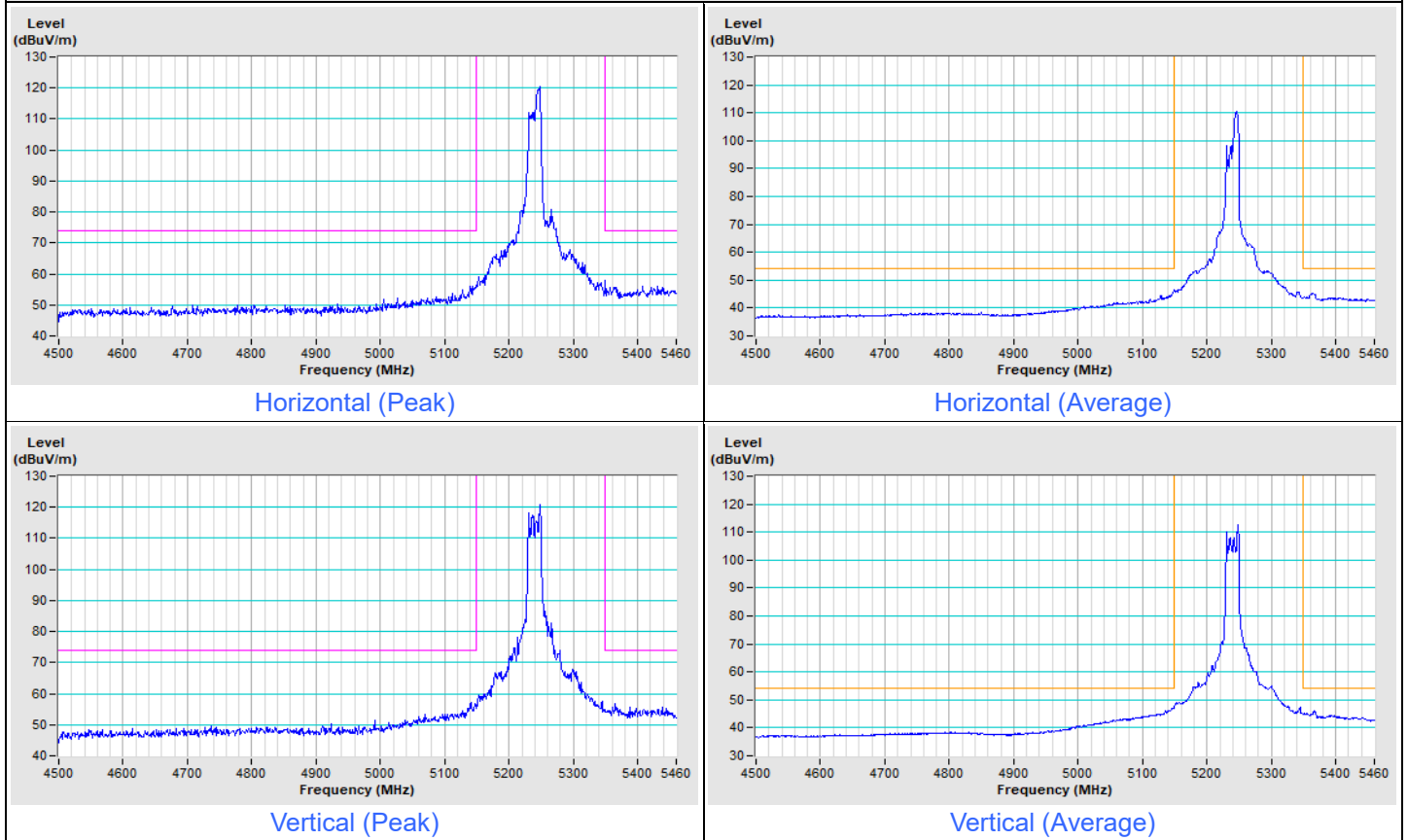
Vertical (Peak)



Vertical (Average)

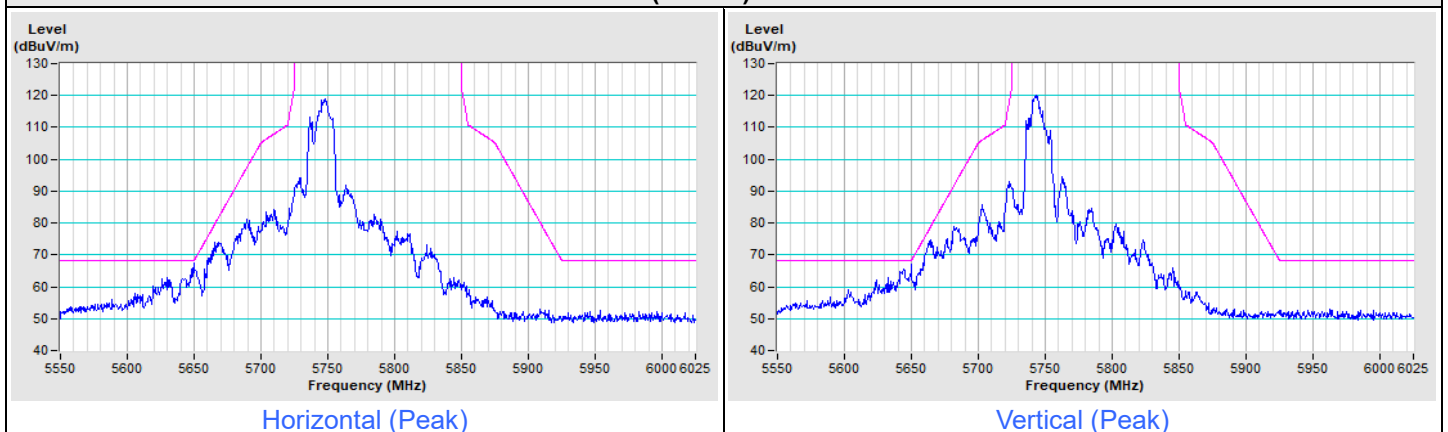
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
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802.11be (EHT20) Channel 48



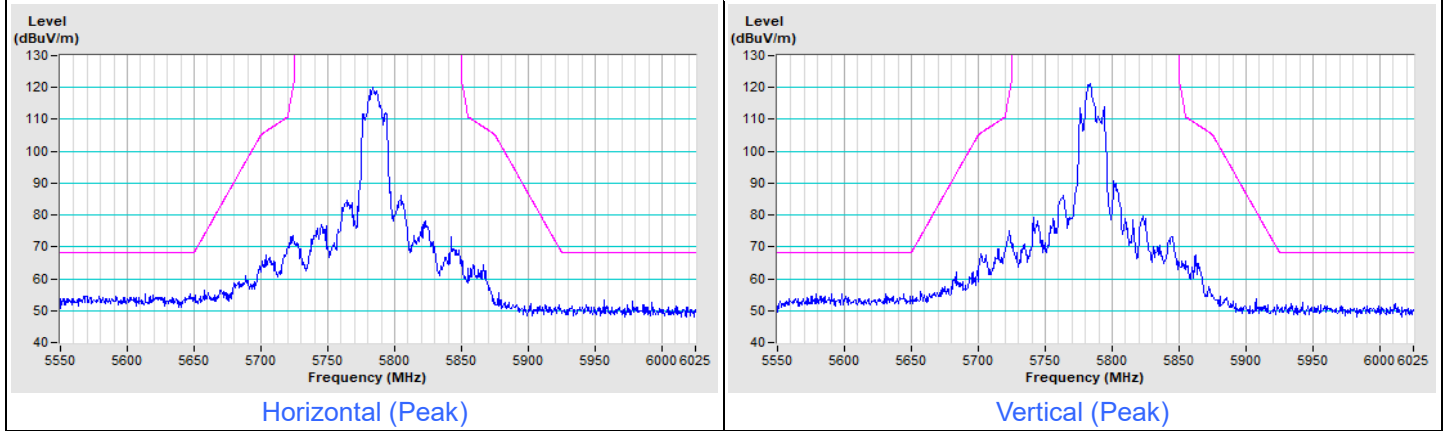
Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11be (EHT20) Channel 149

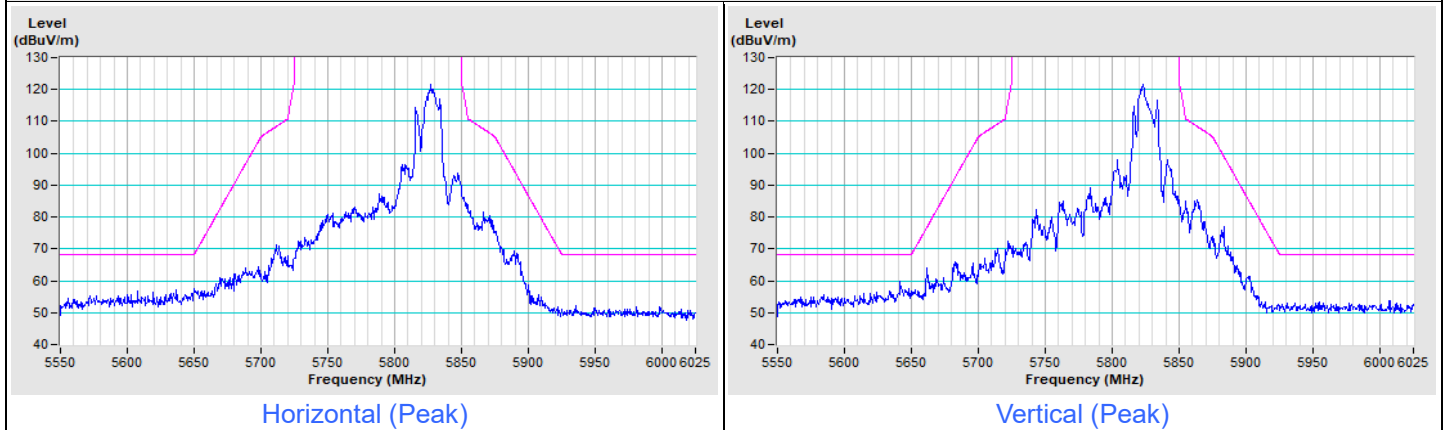


Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11be (EHT20) Channel 157

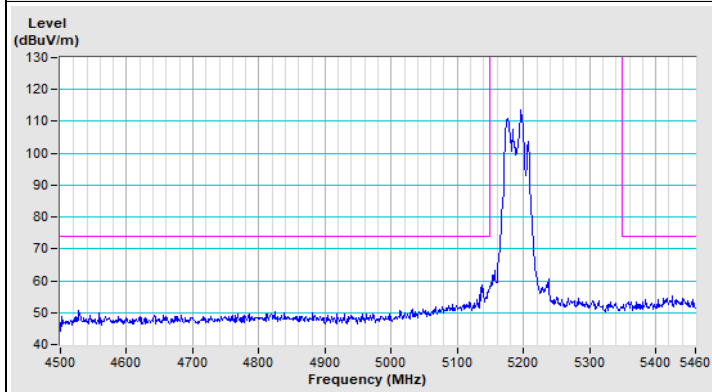


802.11be (EHT20) Channel 165

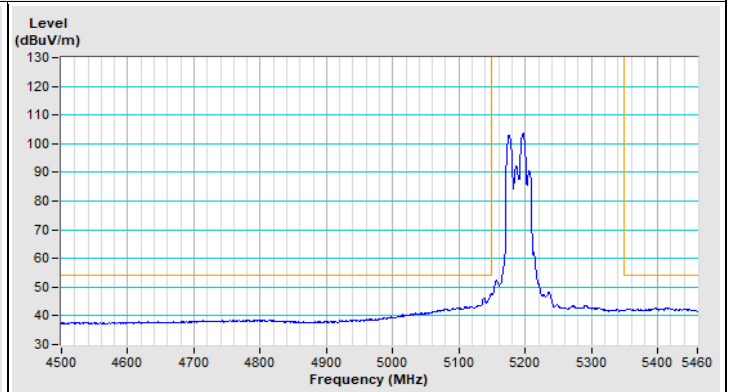


Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
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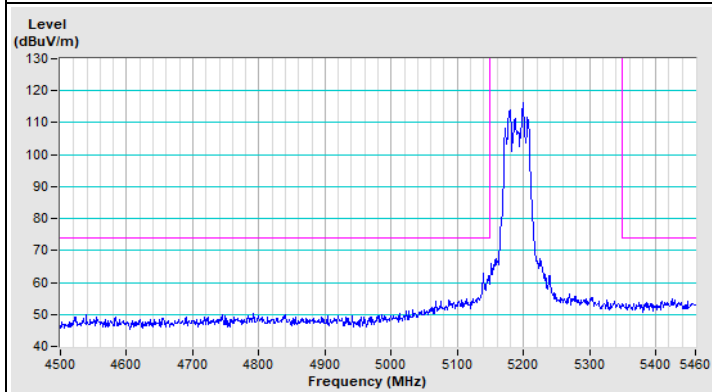
802.11be (EHT40) Channel 38



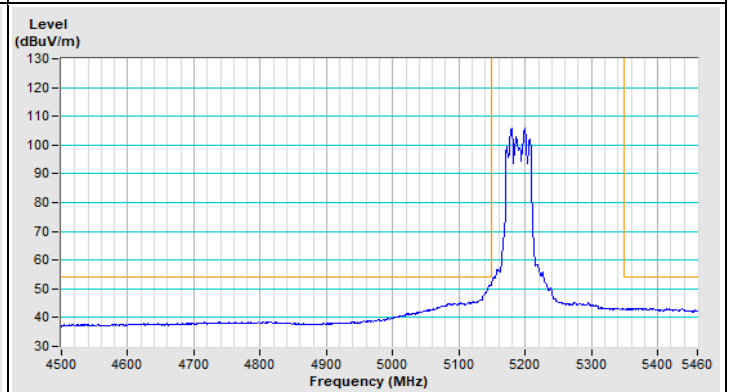
Horizontal (Peak)



Horizontal (Average)



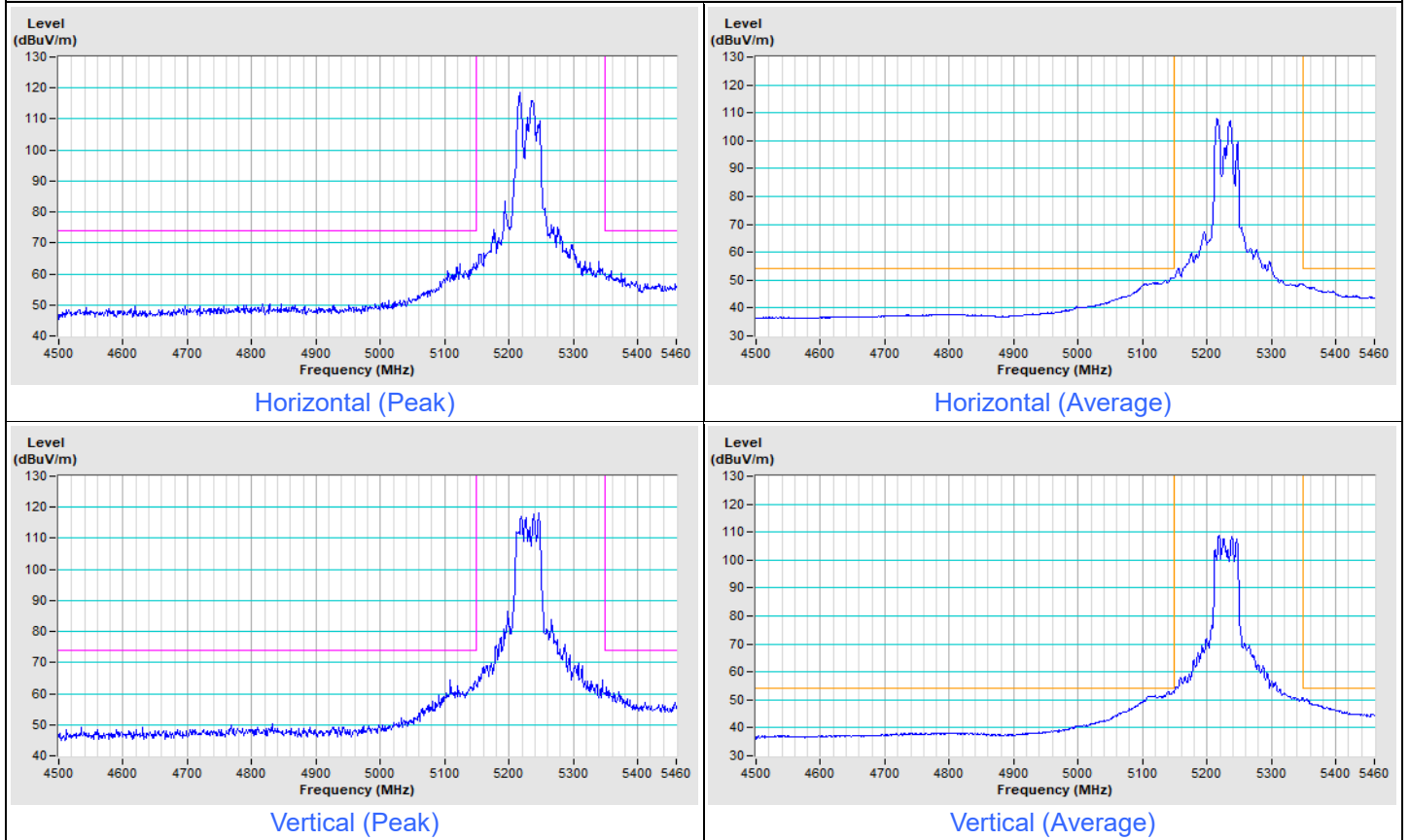
Vertical (Peak)



Vertical (Average)

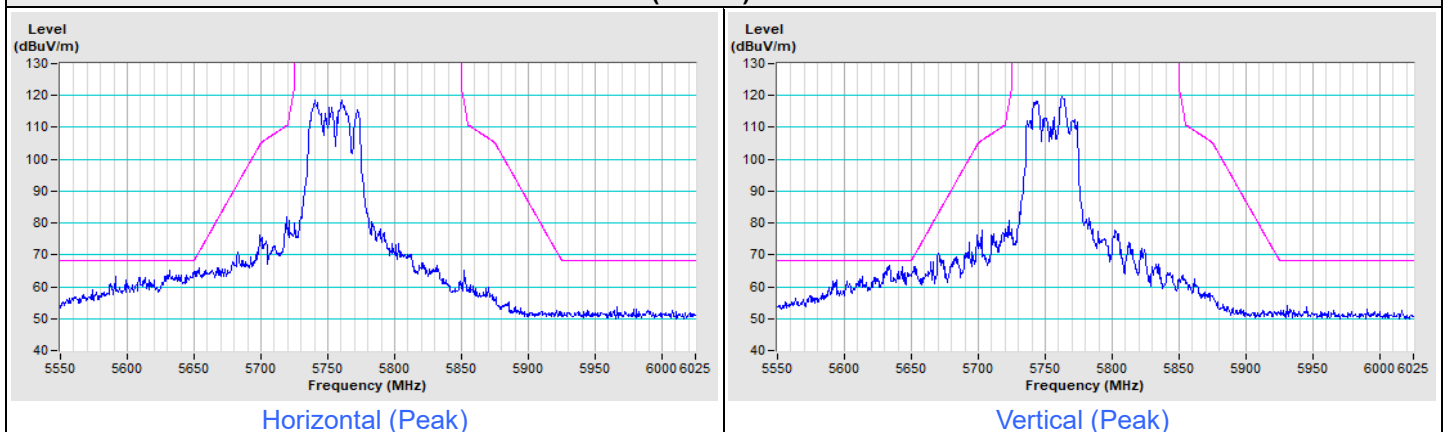
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
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802.11be (EHT40) Channel 46



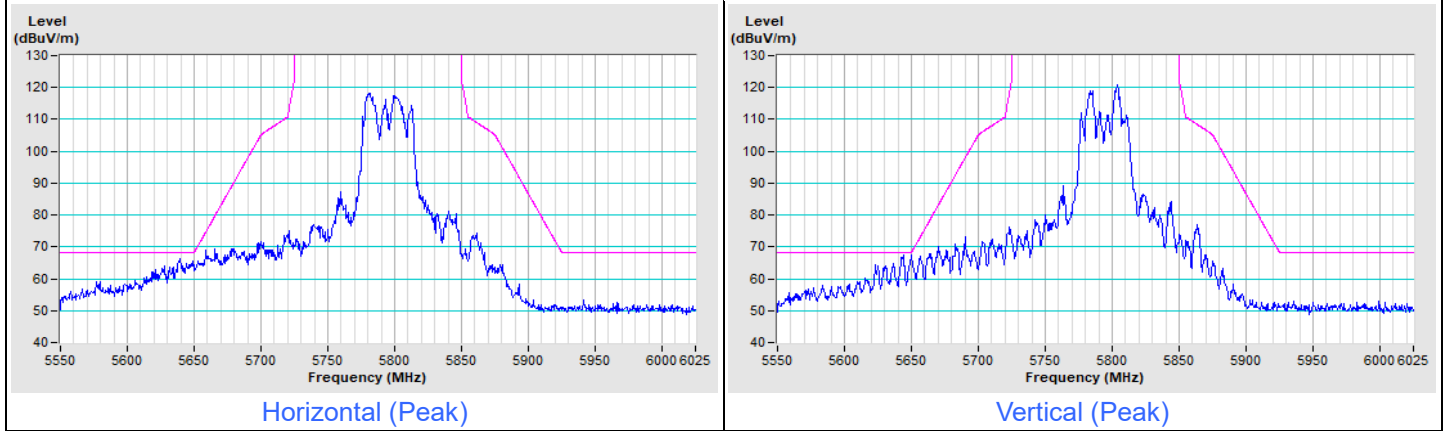
Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11be (EHT40) Channel 151



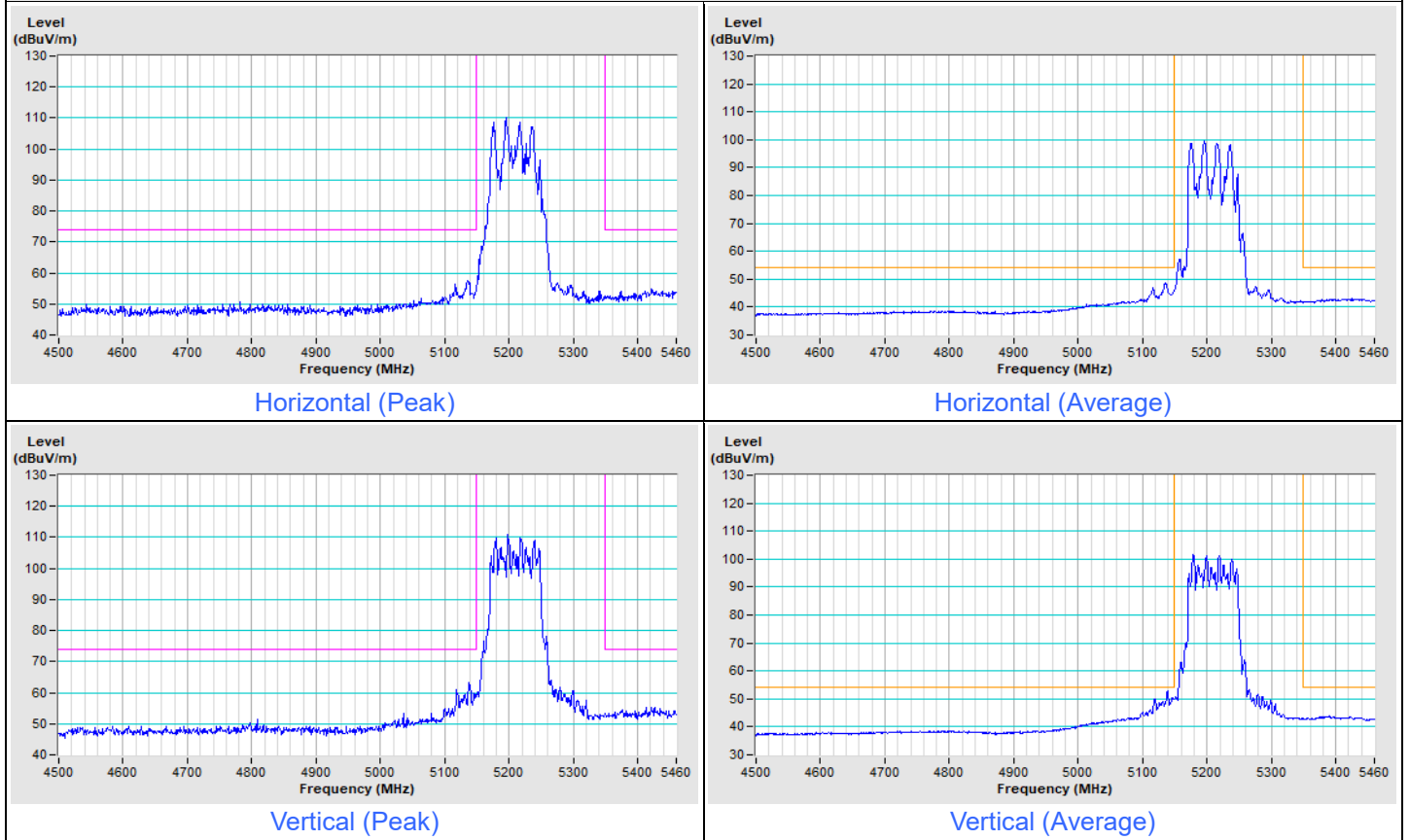
Frequency Range	5.55 GHz ~ 6.025 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak
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802.11be (EHT40) Channel 159



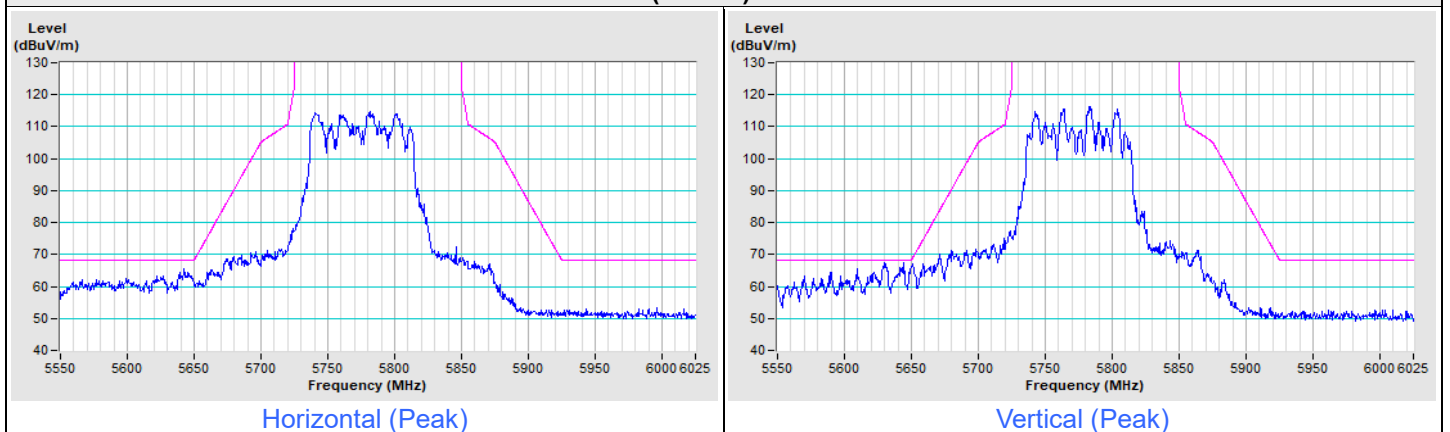
Frequency Range	4.5 GHz ~ 5.46 GHz	Detector Function & Bandwidth	PK: RB=1 MHz, VB=3 MHz, DET=Peak AV: RB=1 MHz, VB=200 Hz, DET=Peak
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802.11be (EHT80) Channel 42



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



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:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

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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